Beas Manufacturing 2026.04

© 2026 Boyum IT Solutions A/S

Table of Contents

Foreword 0

Part I Introduction 32

1 Documentation structure ... 34
2 Beas for SAP Business One ... 35
3 Copyrights ... 36
4 GDPR Notes ... 38
5 Certification ... 41
6 Product life cycle management ... 44
7 Customizing ... 46
8 Compatibility ... 48
9 Performance recommendations ... 51
MSSQL-Defragmentation and Renidexing ... 56
10 End of support functions ... 56
11 Hardware requirement ... 61
Server sizing ... 62
Hosted Environment ... 65
Device requirements ... 66
Demo solution ... 68
12 Beas user interface ... 69
Window control ... 69
Boyum Style ... 74
Buttons and functions layout ... 77
Tool Tip ... 79
Main menu ... 82
Data selection ... 82
Multi selection ... 85
Decimals: separator character behavior ... 85
Drop-down ... 87
Right-click menu ... 87
Ctrl + DoubleClick ... 91
Change objects ... 93
UDF - Extended settings ... 95
Lists ... 98
Structure view ... 99
Window settings ... 100
Window settings - Details ... 104
Icon selection ... 108
Color selection ... 108
Templates ... 109
Template Administration ... 111
Edit templates ... 112
General ... 113
Fields ... 115
Definition of fields ... 116

© 2026 Boyum IT Solutions A/S

Sorting and filter ... 118
Design ... 119
Background ... 121
Image ... 121
Start Script ... 122
Icons ... 122
Change log ... 122
Text Editor ... 124
View entered text ... 125
Text editor ... 125
RTF Control ... 126

Part II Installation Instructions 133

1 Lightweight installation ... 141
2 Installing a Beas Update ... 143
3 Uninstalling Beas ... 145
4 Beas startup options ... 145

beas standalone options ... 145
beas Access parameters ... 148
beas.ini ... 154

5 BETA Version ... 157
6 What's New Window ... 158
7 Production Cockpit ... 158

Part III Administration 165

1 System Initialization ... 165

General settings ... 165
BP ... 166
Services ... 166
Display ... 167
Font and background ... 174
Inventory ... 175
Document settings ... 175
General ... 176
Per document ... 176
Configuration Wizard ... 177
Administration ... 180
Help ... 181
Language ... 183
View ... 184
Print and report settings ... 191
Modules to be activated ... 194
Financials ... 194
Account allocation ... 195
Business partners ... 196
Sales ... 196
Capable-to-Promise ... 197
Master data ... 198
Item ... 199
Display ... 200
Item structure ... 200

© 2026 Boyum IT Solutions A/S

Item master ... 202
I-Version administration ... 207
Variants ... 209
Bill of Materials ... 209
BOM head ... 210
BOM position ... 210
Routing ... 212
Routing head ... 212
Routing position ... 213
Resource ... 214
Time Types ... 220
Tool ... 222
Raw material ... 222
Material group ... 223
Production ... 223
Master data ... 223
Create ... 224
Display ... 234
Material requirement ... 236
FDC ... 238
Pool report ... 247
Logon/Logoff rules ... 249
Window: Work order logon ... 253
View time receipts ... 254
Button "Intermediate report" ... 255
Material posting ... 256
Backflushing ... 262
Account settings ... 273
Work order backflushing booking ... 274
Valuation and Posting of Assembly ... 277
Valuation ... 278
Account determination ... 292
Define WIP Account ... 296
Booking ... 298
Work order position closing ... 301
Serial Number ... 304
Batch Management ... 306
Reservation ... 308
Internal and external maintenance ... 311
External production ... 312
Purchase order and provision ... 312
External operation goods receipt ... 315
Project administration ... 316
Project ... 317
Tasks ... 317
Activate Variants Generator ... 318
Product configurator ... 318
Item Creation ... 319
Desktop Product Configurator ... 320
WEB Product Configurator ... 321
List of Products ... 321
Documents ... 323
External configurator ... 325
Capacity Planning ... 325

© 2026 Boyum IT Solutions A/S

Quality control ... 332
Create new QC ... 333
PO Goods receipt ... 337
Production ... 337
View QC inspection plan ... 338
View Item QC Order ... 339
View Samples ... 339
View Measurment Positions ... 339
Batches ... 340
Transfer ... 340
Materials management ... 345
MRP Wizard ... 345
Calculation ... 345
Forecast ... 347
View ... 350
Purchase request ... 352
PO Goods Receipt ... 355
Manual Entries ... 358
Complaint ... 360
Inventory ... 361
Warehouse management ... 361
Batch Management ... 364
Batch transfer ... 364
Batch and serial number tracing ... 365
Calculation ... 368
Calculation Schema ... 369
Pre-calculation ... 370
Post calculation ... 374
Plan = actual if no conformation ... 381
Personnel ... 383
Human resources ... 384
Time evaluation ... 385
Attendance ... 386
Absence types ... 387
Wage types ... 387
Terminal and WEB APP ... 387
Desktop Terminal ... 387
Beas Web Terminal 2.1 ... 388
Login Mask ... 389
Asynchronous function ... 390
AI - Artificial Intelligence ... 391
Business performance ... 392
System ... 393
WMS ... 400
Work station Settings wizard ... 402
Edit work station ... 407
Device types ... 412
Locations ... 413
Location ... 413
Set up Terminal ... 415
Factory Calendar ... 417
Calendar Creation ... 423
Report setup ... 427
Standard reports ... 428

© 2026 Boyum IT Solutions A/S

Own reports ... 429
Text Modules ... 429
Translation (Report) ... 430
Languages (SAP) ... 431
Filter ... 432
Macros ... 433
Macro Definition ... 437
Macro Structure ... 437
Macro ... 438
Report Name ... 440
Macro Step ... 443
Variables ... 447
Macro Output ... 449
Printer ... 452
Email ... 454
E-Mail Client Types ... 458
Windows Mapi ... 458
SAP messaging system ... 459
Direct SMTP ... 460
Event sequence ... 462
Output Formats ... 466
Preview BEAS form ... 466
APIs ... 468
b1documentgenerate ... 469
itemstructure ... 474
ProdReservationList ... 476
Crystal Reports Support ... 477
Translation ... 478
Units of measure ... 479
Form Texts ... 480
Item Text ... 481
Set Output Language Manually ... 482
Folio Numbering ... 482
Tooltip Preview ... 482
2 Setup ... 482
General ... 483
User Administration ... 483
Extended user settings ... 485
Beas User ... 487
Beas User: Edit ... 489
Rights management ... 490
Required SAP B1 rights ... 502
Rights extended ... 503
Languages ... 504
Date and Number Format ... 505
Translation (Beas) ... 507
Language/translation edit ... 510
Document settings ... 511
Per Document ... 512
Financials ... 513
GL Account Determination ... 513
Business Partners ... 514
Address Formats - Setup ... 514
Inventory ... 515

© 2026 Boyum IT Solutions A/S

Generate Item Overview ... 515
Generate item ... 517
Warehouse rules ... 521
Warehouse rules - Edit ... 523
Material Group ... 527
Material Group tab ... 528
Edit material group ... 529
Surcharges tab ... 530
Material group Details ... 531
Units of measure ... 532
Edit units of measure ... 535
Conversion ... 539
UoMNames ... 548
Cut-off ... 548
Raw Material ... 550
Manufacturer ... 553
Warehouses ... 553
Tool Administration ... 554
Precalculation ... 554
Calculation schema ... 555
Master Data tab ... 558
Calculation objects ... 561
Calculation Objects Edit ... 562
Save as ... 572
Scripting ... 575
Scripting Pre-calculation ... 577
Scripting Post-calculation ... 583
Display ... 586
Production ... 588
Priority ... 589
Pre-calculation view ... 591
Scrap Reasons ... 592
Interruption Reasons ... 594
Edit Interruption ... 596
Cost elements ... 597
Types of costs ... 598
Display of cost elements ... 599
Cost Element Group ... 600
Cost element ... 602
Shift schedule for resources ... 605
Production Types ... 609
Production type - edit ... 611
Operation types ... 616
Operation type ... 619
Operation catalog ... 621
Operations cross reference ... 622
Operation Catalog Edit ... 623
General ... 624
Extended ... 644
Tool ... 654
Utilities ... 658
Parallel ... 660
Alternative ... 664
Attachments ... 669

© 2026 Boyum IT Solutions A/S

Documents ... 670
Project ... 671
Project template ... 671
Edit project template ... 671
Task catalog ... 672
Edit task catalog ... 673
Project cost types ... 677
Edit project cost types ... 678
Complaint ... 680
Complaint types ... 680
Complaint origin ... 681
Repair types ... 682
3 Data Integration Hub ... 682
Data integration hub ... 684
Import Definition ... 687
File ... 690
Columns ... 695
Extended ... 697
Definition Data Target ... 702
DIH Attendance ... 703
DIH Attendance - Absence ... 705
DIH Attendance - Personnel ... 707
DIH Factory Data Capture ... 712
DIH Item ... 713
DIH Item - BoM Positions ... 735
DIH Item - BoM Header ... 743
DIH Item - BoM Alternative items ... 746
DIH Routing Header ... 746
DIH Routing positions ... 748
DIH Routing Tool - alternative-parallel resource ... 756
DIH Documents - Item OP catalog ... 760
DIH Item parameter ... 761
DIH Documents Item Version ... 761
DIH Item version Status ... 765
DIH Master Data ... 770
DIH Resources ... 770
DIH Operation templates resources ... 775
DIH Operation templates ... 780
DIH Warehouse Bin Location, warehouse area ... 783
DIH Warehouse Bin Location - bin definition ... 785
DIH Business partners ... 787
DIH Business partner ... 787
DIH Ship To and Bill To addresses list ... 794
DIH Contact information of employees ... 795
DIH Tool Administration ... 796
DIH Tool - Bill of Materials ... 799
DIH Raw material ... 800
DIH Production ... 800
DIH Work Order ... 801
DIH Production - WO Header ... 802
DIH Production - WO Position ... 806
DIH Work Order BoM ... 812
DIH Production Time Receipt ... 822
DIH Quality Control ... 825

© 2026 Boyum IT Solutions A/S

DIH QC Inspection plan Header ... 825
DIH QC Inspection plan measurement position ... 829
DIH QC Order results ... 831
DIH Item QC Cross reference ... 832
DIH Transactions (Production, Bookings, Manual Posting etc.) ... 834
DIH Material management - transaction plan lines ... 841
Preview ... 845
Source -Target - Link ... 846
Automatch ... 851

4 Utility programs ... 852

Database Test ... 852
Data check ... 855
Archive data ... 867
beas Server management ... 870
Tomcat and Xampp Service ... 884
Distributed Landscape ... 887
Planned activities tab ... 891
Manage Server - editing a task ... 893
Execution ... 894
Condition ... 895
Message ... 896
Button ... 896
Statistics ... 897
Import tab ... 897
Examples of activities ... 900
E-Mail tab ... 902
Extended tab ... 903
Development ... 906
Program Group Development ... 907
Apps List ... 909
Definition tab (edit apps) ... 910
Internal HTTP server ... 912
HTTPS configuration for Beas ... 918
Certificate generation for secure http ... 922
beas common service ... 926
beas common interface ... 928
beas common reference ... 935
Program group Administration ... 937
Authorizations groups ... 940
Authorization groups: assign apps ... 941
Apps basic settings ... 943
Apps administration ... 943
App Setup - extended ... 945
WEB User ... 947
Edit Web users ... 948
Data Protection Tools ... 949
Personal Data Management (beas) ... 949

5 License ... 952

License Installation ... 954
Demo License ... 954
Runtime License ... 955
Offline License ... 956
Update from old Beas Versions ... 957

© 2026 Boyum IT Solutions A/S

License Types ... **957**
Basic ... 961
Product Configurator ... 962
Product Configurator (Web Access or SAP Client) ... 962
Product Configurator (Web User) ... 964
APS (Advanced Planning and Scheduling) ... 966
APS Gantt Viewer ... 967
Maintenance of Resources ... 968
Cost Accounting ... 968
Project Management ... 969
App: Issue / Receipt / Allocation ... 969
App: GRPO, Order, Labels, Stock info ... 971
App: Inventory ... 972
App: Quality Control ... 973
App: Time recording, clock in-out, absences ... 974
App: PDC, Start-Stop interruption ... 976
License Administration (Beas) ... **978**
Administrate license assignments ... 982
Connections ... 984
Terminal License concept ... **988**
Concurrence of Users ... **992**
Customization and Licenses ... **993**
6 Add-ons ... **994**
Add-on manager (Beas) ... **995**
Customer-specific Adaptation ... 996
Edit beas AddOns ... 996
Distribution ... 1000
beas script editor ... 1000
beas script assistant ... 1001
Add-on management ... 1002
CKS.DMS Software ... 1003
CKS.DMS Addon Installation ... 1004
Produmex WMS integration ... **1004**
Picklist for production workflow ... 1005
Picking for production workflow ... 1007
beas usability extension ... **1008**
beas Usability Extension Overview ... 1012
Validation Configuration ... 1013
Function Buttons ... 1020
Item Placement Tool ... 1028
Dropdown ... 1046
User ... 1051
beas Universal Function ... 1052
UF SQL Report ... 1055
UF Script ... 1056
UF Message ... 1057
UF External Launcher ... 1059
Form, DataWindow, Items ... 1061
B1 Usability Package ... **1065**
B1 openform ... 1066
B1 beas placeholder ... 1066
B1 Menu entries ... 1067
7 Change company ... **1067**

© 2026 Boyum IT Solutions A/S

8 Events 1069

Event control 1070

Setup activity 1071

Standard events 1075

Own events 1076

Management of many activities 1080

Part IV Financials 1082

1 Branches 1082

2 Business Performance 1082

Cost Accounting for Manufacturing Organizations 1083

Settings in Beas and SAP BusinessOne - Absorption costing 1086

Absorption Costing - SAP Business One Setup 1086

Absorption Costing - Beas Setup 1090

Configuration wizard setup 1091

Statement Cycle setup 1091

Cost Centers setup 1097

Distribution Keys Setup 1100

Cost Elements setup 1102

Cost Element assignment setup 1105

Resources setup 1106

Creation of master data (step by step) 1108

Absorption Costing - Introduction 1114

Absorption Costing - WORKFLOW 1118

Financial Data - Workflow 1118

Production activities - Workflow 1120

Cost calculate - Workflow 1122

Absorption Costing - Workflow 1124

Absorption Costing - Finishing steps 1128

Master data 1131

Statement Cycle 1131

Statement Cycle - Edit 1133

Distribution Key 1135

Distribution Key - Edit 1137

Cost Elements 1139

Cost Elements - Edit 1141

Cost Center 1144

Cost Center - Edit 1147

Cost Element Groups 1152

Cost Element Group - Edit 1153

Cost Center Groups 1154

Cost Center Group - Edit 1155

Redirection Cost Center 1158

Cost Element Assignment 1159

Settlement structure for P/L statement 1160

Monthly Values 1163

SBO Import 1164

Import Production activities 1164

Import Production Activities - execute 1165

Financial data 1166

Financial Data - Edit 1167

Wage Data 1169

Production activities 1171

© 2026 Boyum IT Solutions A/S

Cost Calculate **1172**
Cost calculation procedure 1174
Results **1175**
Reports (Analyses) 1176
Cost unit P/L statement 1177
Object Analysis Sheet 1177
Cost Element Entries 1178
Cost Center Report 1179
Cost Center Report (Simple) 1181
Cost Center Groups 1181
Cost Rate Trend 1181
Absorption Cost 1182
Absorption Costing Report - Concept 1183
Absorption Costing 1187
WIP 1189
Consumed Assemblies 1190
Summary 1191
Cost Centers not used in Production 1192
Structure display 1193
Perform year end closing 1193

Part V Sales - AR **1195**

1 Quotation, Sales order **1196**
Deliver **1206**
Capable-to-Promise (CTP) **1208**
Available-to-Promise (ATP) **1214**
Print SAP Document **1217**

2 Precalculation **1223**
Edit Precalculation **1225**
Precalculation Controls 1230
Processing tab 1232
View tab 1234
Functions tab 1239
Right-click menu: 2nd tab 1242
Right-click menu: 3rd tab 1243
Precalculation Header 1244
Project 1247
Valuation 1248
Bill of Materials 1253
Bill of Materials Data 1259
Bill of Materials General 1261
Bill of Materials Extended 1278
Bill of Materials Price 1281
Bill of Materials Variant 1285
Material Scale Price 1287
Material Master Data 1289
Material Schema 1289
Material Result 1291
Operation 1291
Precalculation Tool 1296
External Operation 1300
General 1304
Cost 1324

© 2026 Boyum IT Solutions A/S

Extended ... 1324
Variant ... 1334
Pre-calculation extended view ... 1335
Lot Size and View per ... 1339

Part VI Purchase - AP 1342

1 Purchase order (SAP) ... 1342

2 Goods Receipt PO ... 1343

Provision parts ... 1358
Open purchase orders ... 1359

3 Supplier complaint ... 1360

Part VII Inventory 1361

1 SAP Item Master Data ... 1361

Header - SAP Item Master ... 1363
Extended Production Right-Click Menu ... 1369
Advanced duplicate / item creation ... 1373
Extended Description ... 1375
General ... 1379
Purchasing Data ... 1381
Sales Data ... 1386
Inventory Data ... 1389
Planning Data ... 1393
Advanced Production ... 1399
Advanced General ... 1400
Advanced Warehouse ... 1404
Advanced Planning ... 1405
Advanced Manufacturing data ... 1406
Advanced - Version ... 1416
Advanced Calculation ... 1417
Batch ... 1419
Serials ... 1424
Production Data ... 1426
Properties ... 1428
Remarks ... 1429

2 Item report ... 1429

Create new items ... 1431
Item Batch Changes ... 1434
Inventory History ... 1436
Bin Location Structure ... 1443
By Warehouse No. ... 1445
By Bin Location ... 1447
Batch numbers ... 1448
Serial numbers ... 1450
I-Version tab ... 1451
Reservation list ... 1453
Inventory Movements List ... 1456
Bin location transactions ... 1460
Item cross Reference ... 1460

3 Item structure ... 1462

Item structure right click menu ... 1470

© 2026 Boyum IT Solutions A/S

Calculation ... 1475
Structure report ... 1478
4 Item master ... 1482
Master Data tab ... 1483
General ... 1490
UoM of item ... 1520
Planning data ... 1522
Purchasing data ... 1526
Sales data ... 1530
Inventory data ... 1533
Batch ... 1539
Serials ... 1543
Calculation ... 1544
Price List button ... 1547
Calculation button ... 1550
Properties ... 1552
Remarks ... 1552
Parameter ... 1556
Variant ... 1557
Report "used in" ... 1557
Item version ... 1558
Edit I-version ... 1559
Item version - Status ... 1562
Documents ... 1565
Edit documents ... 1565
Configurator tab ... 1567
Edit configurator ... 1569
Output ... 1570
Input ... 1570
Price ... 1570
Visibility rule ... 1571
Quality control ... 1572
QC Item-Inspection plan linkage ... 1573
Characteristics ... 1577
5 Bill of materials ... 1577
Edit BOM ... 1580
BOM positions ... 1582
Edit BOM positions ... 1591
General ... 1599
Extended ... 1616
Alternative material ... 1740
Cross reference ... 1741
BOM Batch change ... 1742
Difference BOM ... 1748
Copy BOM ... 1751
6 Routing ... 1753
Edit routing ... 1754
Routing positions ... 1756
Edit routing positions ... 1759
External operation ... 1767
General ... 1771
Extended ... 1792
Tool ... 1802

© 2026 Boyum IT Solutions A/S

Utility ... 1807
Parallel ... 1808
Alternative ... 1812
Attachments ... 1817
Special functions ... 1818
Resource ... 1819
Calculation of target time ... 1820
Batch change routing ... 1822
7 Bin Locations (SAP) ... 1823
Bin Location Master Data (SAP) ... 1823
8 Warehouse Management ... 1824
Warehouse master data ... 1826
Beas Bin Management ... 1828
Edit warehouse master data ... 1830
Warehouse Area (Beas) ... 1839
Bin location list (Beas) ... 1842
Bin location ... 1843
Extended visual display ... 1847
Creating a bin location ... 1850
Batch Change ... 1854
Open documents (Beas) ... 1857
Edit open documents ... 1858
Inventory list ... 1861
Bin location system check (Beas) ... 1861
Bin location correction (Beas) ... 1862
Correct bins manually (Beas) ... 1864
9 Inventory transactions ... 1865
Manual postings ... 1865
manual issue ... 1879
manual receipt ... 1880
transfer manually ... 1881
Batch list ... 1882
Stock on bin location ... 1883
Batch transfer ... 1884
History ... 1888
Batch Split ... 1889
Inventory (Stocktaking) ... 1893
Inventory Opening Balance ... 1896
Edit stocktaking ... 1897
Manage stocktaking ... 1899
Inventory New Entry ... 1901
Cycle Count Recommendations ... 1902
Annual inventory count ... 1903
Edit inventory ... 1905
Inventory list ... 1908
Import inventory ... 1913
Difference posting and pre-check ... 1916
Inventory template ... 1918
Enter counting: selection ... 1919
List for enter counting ... 1920
Inventory Change log ... 1921
Bin location correction ... 1922
Initial stock taking ... 1922

© 2026 Boyum IT Solutions A/S

Enter barcodes ... 1924
Batch calculation (precalculation) ... 1925
Batch calculation overview ... 1927
Edit Batch calculation ... 1931
Selection tab ... 1932
In-house production ... 1934
Purchased items ... 1938
Extended tab ... 1940
Batch calculation results ... 1944
Batch calculation stock revaluation ... 1946
Reservation list ... 1948
10 Tool Administration ... 1951
Edit tools ... 1954
General tab ... 1956
Scheduling tab ... 1960
Graphic tab ... 1961
Costs tab ... 1962
Variation Costs tab ... 1965
Bill of Materials tab ... 1965
Interruption tab ... 1967
Maintenance orders tab ... 1969
Periodic tool maintenance ... 1970
Maintenance orders tab ... 1971
Attachments tab ... 1971
Documents tab ... 1972
Edit Document line ... 1974
11 Item management ... 1975
Serial Numbers ... 1975
All serial numbers ... 1975
Serial details ... 1977
Serial number tracing ... 1978
Batches ... 1979
All Batches ... 1979
Batch details ... 1981
Batch Tracing ... 1982
Part VIII Production 1989
1 Resources ... 1990
Resource Groups ... 1993
Resources group administration ... 1993
Edit resource group ... 1997
Resources tab ... 2000
All resources ... 2000
Dispatches ... 2006
Dispatches detail ... 2008
Productivity ... 2012
Edit resource ... 2014
General tab ... 2016
Scheduling tab ... 2023
Cost tab ... 2029
Resource costs ... 2034
Separate wage costs ... 2036
Separate setup costs ... 2043

© 2026 Boyum IT Solutions A/S

Concept time types ... 2046
Cost rates ... 2050
Define cost rates ... 2052
Cost Details tab ... 2053
Attachments tab ... 2054
Documents tab ... 2056
Expendable material tab ... 2057
Extended tab ... 2058
Interruption tab ... 2060
Edit/Add Interruption ... 2062
Start interruption ... 2063
Stop interruption ... 2065
2 Work order general ... 2067
WO structure ... 2067
WO structure context menu ... 2071
WO structure Assembly ... 2078
WO structure BOM ... 2080
WO structure operation ... 2084
WO structure External operation ... 2088
WO structure QC orders ... 2089
WO Structure Material postings ... 2090
WO structure allocations ... 2093
Serial Number Reservation ... 2094
WO reservation of serial numbers ... 2095
WO cancellation screen ... 2096
Journal ... 2103
WO structure time receipts ... 2107
WO post-calculation ... 2108
WO post-calculation results ... 2112
Export to Crystal ... 2114
WO General Parameters ... 2116
WO Print ... 2120
Customization WO structure view ... 2121
Split assembly ... 2123
Material requirement report ... 2125
Link serial numbers / batches ... 2129
Cross Reference ... 2131
Cross Reference Edit ... 2133
Issue / Reservations screen ... 2133
Reservation screen ... 2135
Res. screen requirement list ... 2143
Pre-Assign buttons ... 2150
Extended rules ... 2154
Icons ... 2155
Inventory list ... 2155
Available B / L / D ... 2164
Reserved B / L / D ... 2165
Selected material ... 2165
Scanner support ... 2166
Allocation screen ... 2167
WO Stock transfer request ... 2175
External Production - Issue provision of Goods Receipt XX ... 2182
Material issue ... 2187
Serial Number linking ... 2195

© 2026 Boyum IT Solutions A/S

WMS Picklist for Production ... 2197
backflushing screen (beas 2009 version) ... 2209
Collective receipt ... 2210
Work orders list ... 2218
Assembly ... 2221
Work order document ... 2223
WO document master data ... 2228
Status ... 2231
WO document project ... 2231
WO document attachments ... 2232
WO document settings ... 2233
WO document positions ... 2237
Edit Work Order Position ... 2241
Master Data tab ... 2249
Bill of Materials tab ... 2253
Bill of Materials Detail ... 2254
Bill of Materials - General ... 2255
Bill of Materials - Extended ... 2273
Bill of Materials - Costs ... 2345
Routing tab ... 2346
Production Routing ... 2348
External operation ... 2350
General ... 2355
Costs ... 2375
Scheduling ... 2376
Extended ... 2377
Tools ... 2378
Utilities ... 2383
Parallel ... 2384
Alternative ... 2388
Attachments ... 2394
Calculation tab ... 2395
Extended tab ... 2398
Link tab ... 2402
Parameters tab ... 2403
Documents tab ... 2403
Journal tab ... 2403
Structure Refresh ... 2404
field description extended ... 2406
3 Project management ... 2408
Edit project ... 2410
Task ... 2414
Edit task ... 2416
Budget ... 2420
Activities ... 2421
Purchase ... 2421
Sales ... 2422
Service ... 2424
Attachments ... 2426
Work Orders List ... 2427
4 Milestones ... 2429
Edit Milestone ... 2431
5 Sales order to Production order ... 2432

© 2026 Boyum IT Solutions A/S

Order-related tab ... **2433**
Storage-related tab ... **2442**
6 Post calculation ... **2445**
Post-calculation master data ... **2446**
Post-calculation results ... **2451**
Post-calculation cost centers ... 2454
Results detail ... 2455
7 Own Work Order reports ... **2456**
Concept of own reports ... **2457**
WO Reports ... **2460**
Work list ... **2462**
8 Report work order ... **2466**
9 Internal complaint ... **2467**
Internal Complaint - Edit ... **2468**
10 Capacity Planning, APS ... **2471**
Work with APS ... **2474**
Scheduling ... 2475
Scheduling: Forward ... 2479
Expansion and Compression (APS) ... 2481
Time Reservation (APS) ... 2484
Transit time (APS) ... 2486
APS Scheduling ... **2488**
APS Edit scheduling ... 2491
Master Data ... 2493
Resources ... 2499
Views ... 2502
Views ... 2502
Sub view ... 2506
Field description ... 2511
Calculation type ... 2515
Planning view ... 2516
Scheduling ... 2525
Work order ... 2527
Reports ... 2528
APS shortage ... 2529
Multiple selection ... 2531
Graphic View ... **2532**
Parallel Operations and Overlapping ... 2533
Structure ... 2543
Gantt Display ... 2545
Gantt Display 2021.03 ... 2563
Compress ... 2564
Timescale ... 2566
Group Function ... 2569
Recalculation ... 2570
Move ... 2570
Resource-optimized Detailed Planning ... 2571
Resource Utilization ... 2572
Alternative Resources ... 2573
Show All ... 2574
Data Structure ... 2575
Table Structure ... 2575

© 2026 Boyum IT Solutions A/S

Pooling, Scheduling ... **2577**
Pool Control ... 2578
Pool Structure Report ... **2579**
Graphic Utilization Display ... **2582**
APS Calculation Types ... **2585**
Default Calculation Methods ... 2601
11 Quality control ... **2605**
Quality control orders ... **2610**
Edit QC orders ... 2612
Input per sample ... 2618
Measurement samples ... 2624
Edit measurement position ... 2630
QC Groups ... 2633
Edit QC Groups ... 2634
Input per test ... 2635
Enter measured values ... 2637
QC documents ... 2641
Document edit ... 2643
QC Activities ... 2645
QC Transfer ... 2645
QC Document Type ... 2661
Existing documents ... 2663
New QC Order ... 2664
Samples ... **2665**
Batches to be verified ... **2667**
QC inspection plan ... **2670**
Edit QC inspection plan ... 2671
QC inspection plan master data sheet ... 2672
Inspection plan Master data ... 2674
Measurement per ... 2677
Parallel QC Plan ... 2679
Release ... 2680
Rules ... 2686
Execution ... 2689
Measurement position ... 2690
Edit measurement positions ... 2692
Attachments ... 2698
Documents ... 2699
Edit documents ... 2700
QC templates ... **2703**
edit QC templates ... 2707
Blockage Reasons ... **2711**
QC valuation reasons ... **2713**
12 Factory data capture ... **2714**
Terminal ... **2714**
Production Time Receipt ... **2723**
Work order Backflushing Booking ... **2737**
Production Time Administration ... **2750**
ProductionTime ... 2753
Quick Input ... 2754
Active Work Order Times ... 2757
13 External Production ... **2759**
External production ... **2760**

© 2026 Boyum IT Solutions A/S

Collective Purchase Order ... 2762
External Production - Deliver Provisions ... 2774
Deliver Provision XXX ... 2776
External Production - Goods Receipt ... 2785
External Production - Goods Receipt of Supplier XXXXX ... 2786
External Production - Issue provision ... 2789
External production (default) ... 2790
Pricing and transport costs ... 2792
Concept of External Production ... 2793
External production with provision ... 2796
14 Product Configurator ... 2798
Configurations ... 2803
Configurator (integrated) ... 2804
Generate Item ... 2812
Customer specific adjustments ... 2818
Product configurator definition ... 2827
Configuration structure ... 2829
Object-Type "Header" ... 2830
Header-BriefDescription ... 2842
Header-Text Description ... 2844
Object-Type "Block" ... 2847
Object-Type "Set-Object" ... 2851
Object-Type "Parameter" ... 2856
Object-Type "Selection" ... 2873
Configuration objects ... 2882
Copying objects ... 2919
Copying within the configuration structure ... 2920
Copy objects of other items ... 2921
Exporting and importing objects ... 2923
Exporting and importing object via clipboard ... 2924
Deletion of all objects ... 2925
Script Syntax ... 2926
Create a new configuration ... 2931
Price ... 2933
Text Brief Description ... 2938
External configurator ... 2941
Create new configuration ... 2943
Web Product Configurator Setup ... 2944
List of Products ... 2944
Documents ... 2946
Cross-references ... 2948
Cross Reference ... 2949
Cross Reference Values ... 2951
Formulas ... 2952
Tables ... 2955
Variables ... 2956
Beas Script ... 2958
15 Variant production ... 2960
Variant ... 2964
Creating Variants ... 2966
Product configurator ... 2968
Bills of materials and operations ... 2968
Syntax ... 2969

© 2026 Boyum IT Solutions A/S

Variant generator ... **2970**
Customizing bills of materials and routings ... 2971
Formulas, Tables, Variables and Beas-Script ... 2971
Formula icons ... 2976
List of formulas ... 2976
Routing Description ... 2976
with BeasScript (on position level) ... 2978
Formulas ... 2984
Test ... 2988
Tables ... 2989
Table tab ... 2990
Dimensions tab ... 2990
Values tab ... 2993
Variables ... 2994
Beas-Script ... 2996
Datawindow-Syntax ... 2998
16 Production Cockpit ... 3002
17 AI Assistant ... 3008
Part IX MRP 3015
1 MRP Wizard ... 3022
MRP scenario scheduling ... 3025
Scheduling ... 3026
Detail ... 3037
Pegging and replenishment ... 3038
Warehouse (Pegging setting) ... 3039
Notify of minimum inventory ... 3043
Production (Pegging setting) ... 3045
Sales (Pegging setting) ... 3047
Purchase (Pegging setting) ... 3057
Computation type (Pegging setting) ... 3060
Breakdown replenishment ... 3065
Inventory ... 3069
Forecast ... 3071
Resources ... 3073
Calculation ... 3074
Authorization ... 3078
Warehouse ... 3079
Requirement of resources MRP2 ... 3079
Peggings Resources ... 3084
Calculation ... 3084
MRP calculation ... 3084
Computation time ... 3087
Calculation of order proposal date ... 3088
Requirement coverage calculation ... 3091
Scheduled MRP calculation ... 3098
Analysis ... 3102
2 Order recommendation: overview ... 3104
Order recommendation view ... 3105
Order recommendation List ... 3106
Context menu and filters ... 3125
Fixed filters ... 3128

© 2026 Boyum IT Solutions A/S

Massive mode ... 3135
Pre-Assign ... 3136
Requirement ... 3139
Inflow & Outflow ... 3140
MRP - Icons ... 3154
Origin of Requirement structure ... 3155
Order ... 3156
Make ... 3166
Transfer ... 3169
Info Area ... 3171
MRP Current Income ... 3172
MRP Price ... 3174
MRP Alternative ... 3176
MRP Warehouse ... 3183
MRP Replenishment Warehouse ... 3185
3 Purchase request (Beas) ... 3186
Edit purchase request ... 3191
4 Production Request ... 3193
Merge ... 3195
5 Forecasts ... 3197
Part X Service 3199
1 Internal and external maintenance ... 3199
Maintenance (list) ... 3200
Master data edit ... 3202
Maintenance plan ... 3205
Components ... 3213
History ... 3214
2 Maintenance orders ... 3214
Maintenance order ... 3216
Documents ... 3220
Create Maintenance order ... 3222
Part XI Human Resources 3224
1 Process information ... 3225
Structure of a shift ... 3226
Shift determination ... 3227
Automatic shift determination ... 3228
Calculating a working time ... 3229
Flexible lunch break ... 3229
Plan time calculation ... 3231
Actual time determination ... 3232
Flextime accounts ... 3233
Overflow account ... 3234
Second flextime account ... 3235
Overtime Accounts ... 3235
2 Currently present ... 3236
3 Personnel ... 3237
Personnel Master data ... 3242
Edit Personnel Master data ... 3243
Attendance ... 3247

© 2026 Boyum IT Solutions A/S

FDC ... 3249
Login ... 3252
User rights ... 3253
Extended settings ... 3255
Shift model ... 3256
Account planning ... 3257
Edit shift model ... 3258
Shift Model ... 3261
According to week plan ... 3261
Rotation ... 3262
Automatic shift ... 3264
Automatic on default ... 3265
Manual ... 3267
Extended ... 3269
Special Shift ... 3270
Attendance ... 3272
Enter attendance time ... 3274
Absence ... 3277
Edit absence ... 3278
Orders ... 3280
Monthly quota year/month ... 3282
Edit monthly quota ... 3284
Edit wage types ... 3287
Documents ... 3288
Monthly quota ... 3289
4 Time Evaluation ... 3290
Report Definition ... 3293
Configuration time evaluation ... 3296
5 Recalculation ... 3299
6 Report Attendance ... 3303
7 Master data ... 3305
Terminal Functions ... 3305
Absence Types ... 3307
Wage types ... 3310
Period rule ... 3312
Edit period rule ... 3313
Rounding rule ... 3315
Hourly surcharge ... 3317
Time domain ... 3320
Extended ... 3322
Shift Definition ... 3323
Edit shift definition ... 3325
Working time ... 3327
Day template ... 3328
Personnel Groups ... 3330
Part XII Reports 3331
1 Reports Master Data ... 3331
2 QC Reports ... 3332
3 Cost Accounting Reports ... 3333
4 Calculation reports ... 3335

© 2026 Boyum IT Solutions A/S

5 Marketing Documents 3335
6 Complaint Reports 3335
7 Material Management Reports 3335

Part XIII SBO Menu View 3337

1 System information 3337
Debug to HTML 3348

Part XIV SBO Menu Tools 3352

1 Form settings 3352
2 WEB Server 3353
3 Protocol, Notes, Warnings 3358
4 Preview window 3360
5 Customization Tools 3361
Beas Script Editor 3362
Macro Recorder 3363
Beas Customization Properties 3364
Window Customization Script 3367
Window System Properties 3367
Window System Script 3367
User-Defined Fields 3368
6 Queries 3368
SQL Editor 3368
SQL HANA Converter 3370
Active User 3371
7 My Shortcuts 3372
8 System Programming 3372
9 Extensions for clients 3372
beas script 3373

Part XV SBO Menu Window 3374

1 Colors 3374
2 Messages Activities 3374

Part XVI SBO Menu Help 3375

1 Documentation 3375
2 Last messages 3375
3 Message numbers 3375
cantrollback 3376
primaryspace234 3377
specialsigns1 3377
stdpricek423984 3377
calendar3 3378

Part XVII Terminal and WEB APPS 3379

© 2026 Boyum IT Solutions A/S

1 Apps basic settings 3382

2 Program group Terminal 3382

3 Terminal 3383

Attendance apps 3391

Arriving 3391

Logon/Logoff 3392

Leaving 3394

Times 3394

Status 3395

Material management apps 3396

Allocation 3397

Production collective receipt 3405

Collective issue for production 3414

Post in from Production 3422

Issue for Production 3436

Goods receipt PO 3450

Batch transfer 3465

Batch Split 3469

Goods Issue 3473

Goods receipt 3487

Stock Transfer 3501

Collective goods receipt 3503

Invent.History 3518

Picking List 3525

Inventory apps 3528

Inventory Counting list 3528

Production apps 3529

Pool Report 3530

Edit operation in pool list 3536

Activity 3539

Display Documents 3540

Quick Input 3541

Order Status 3543

Work Order Backflushing booking 3544

Production Time Receipt 3559

Start Interruption 3573

Stop Interruption 3575

Logoff work order 3577

WO logoff Start/End date 3578

Login work order 3579

External Goods Receipt 3584

External issue Provision parts 3586

External Provisions 3587

Quality Control apps 3589

QC Samples 3589

QC Orders 3591

Maintenance orders 3592

4 WEB APPS Version 2.1 3595

General information 3597

Batch/Serial Extended Information screen 3603

Batch Extended Information 3603

Batch Attribute support (WMS) 3607

Serial Extended Information 3608

© 2026 Boyum IT Solutions A/S

Asynchronous Working ... 3613
GS1-128–standard Bar Code Support ... 3616
Bin Management Support ... 3628
Installation on Zebra TC20 ... 3628
Multi-Line Barcode with Zebra TC20 ... 3631
Print Solution ... 3635
UI & UX Tutorial ... 3649
Logon / Logoff ... 3703
Goods Issue ... 3709
Goods Receipt ... 3717
Goods Receipt PO ... 3721
Batch/Serial Inv. Info ... 3725
Inventory Counting - by item ... 3728
Inventory Counting - List ... 3730
Invent.History ... 3733
Picking SO ... 3739
Picking List - SAP ... 3746
Pick Delivery ... 3752
Stock Transfer ... 3757
Stock Transfer Request ... 3762
Warehouse Stock ... 3767
WO Start ... 3770
WO Goods Receipt ... 3775
WO Goods Issue ... 3780
WO Issue by SSCC ... 3795
WO Time Receipt ... 3810
WO Stop ... 3822
Start Interruption ... 3834
Stop Interruption ... 3837
WO Backflushing ... 3839
WO Material Reservation ... 3853
Reservation List ... 3863
Allocation ... 3868
Pool Report ... 3878
QC by Sample ... 3887
QC by Test ... 3895
QC Transfer ... 3903
Ext. Deliver ... 3912
Ext. GRPO ... 3919
Ext. Issue ... 3925
5 Web Product Configurator ... 3933
Web Product Configurator – User Interface ... 3937
6 Beas service layer ... 3946
Part XVIII Beas dashboards 3947
1 Prerequisites ... 3947
2 Installing and upgrading ... 3947
3 Installing the Dashboards ... 3948
4 Language ... 3950
Customizing field names ... 3950
5 Using the dashboards ... 3951

© 2026 Boyum IT Solutions A/S

Production Planning dashboard 3951
Positions area 3952
Operations area 3955
Production gauges 3957
Resource dashboard 3960
Resource filters 3961
Actual use vs capacity bars 3962
Resource gauges 3965
Resource tables and charts 3968
Item dashboard 3971
Inventory history table 3971
Item filter 3973
Item bars and charts 3973
Production Analysis 3977
General tab 3978
Production Profitability (Estimation) 3979
Resources' Efficiencies 3980
Scrap Rates 3980
Inventory Coverage for Production 3981
Production Costs Over Time 3982
Unproductive Times Tab 3983
Unproductive Times per Resource 3983
Top 10 Unproductive Times 3984
Assembly / Top Level Assembly 3985
Work Order Analysis 3985
Transit Times Tab 3987
Assembly / Top Level Assembly 3987
Transit From / Transit To 3988
Transit To Chart 3989
Work Order Analysis 3990
Operators 3991
Production Constraints Tab 3991
Assembly 3992
Constraint Sequences per Assembly 3993
Resources per Assembly 3994
Resources 3995
Production Planning Overview 3996
Summarized Scheduling Tab 3997
Work Orders and Positions 3998
Quick Filter 3999
Customers 3999
Projects 4000
On Time Production (Delivery Date) 4001
Work Order Statuses (Current Month) 4002
Detailed Scheduling Tab 4003
Scheduled Operations 4004
Stock (Status) 4006
Resources (Status) 4007
Customers 4008
Projects 4009
Stock Requirements & Availability (Linked to Routing) 4010
Operators 4012
Resources 4013
Execution Overview Tab 4015

© 2026 Boyum IT Solutions A/S

KPIs Area ... 4016
Operators ... 4016
Resources ... 4017
Items ... 4018
Executed Production ... 4019
Productivity Overview Tab ... 4020
Productivity Per Hour (Today, Selected Resource) ... 4021
KPIs Area ... 4021
Productivity vs. Goal (UDF4 on Resources) ... 4023
Capacity Utilization ... 4023
Actual and Planned Utilization Tab ... 4024
Capacity Utilization Overview (Hours) ... 4025
Resources' Utilization Chart ... 4025
Overall Utilization of Resources (Groups) ... 4028
Overall Utilization of Resources ... 4029
Daily Utilization View ... 4030
Monthly Utilization View ... 4031
Overall Equipment Effectiveness (OEE) Tab ... 4031
Capacity Overview (Hours) ... 4032
Effectiveness Overview (Hours) ... 4033
Multilayered Effectiveness Analysis ... 4033
Overall Utilization of Resources (Groups) ... 4035
Overall Utilization of Resources ... 4037
Interruptions Breakdown ... 4039
Factory States ... 4041
State ... 4041
Resources ... 4042
Items in Production ... 4044
Work Order List ... 4045
Free Resources ... 4047
Quality Control ... 4047
Rejections tab ... 4048
Items Overview ... 4048
Inspections Analysis ... 4049
Top 10 Inspections Rejected ... 4050
Resources related to production rejections ... 4050
Top 10 Resources with Rejections ... 4051
Deviations tab ... 4052
Averages and Deviations Analysis per Item ... 4052
Top 10 Highest Deviations per Inspection ... 4054
Control Chart (σ = Std. Dev.) ... 4055
Production Scheduling Calendar ... 4055
Daily View ... 4057
Weekly View ... 4057
Monthly View ... 4058
Agenda View ... 4058
Using the Calendar to Monitor Production Execution ... 4058
Maintenance Dashboard ... 4060
Categories, Statuses and Types ... 4060
Corrective Reasons ... 4062
Maintenance Costs Overview ... 4063
Maintenance Cost Over Time ... 4064
Maintenance Materials ... 4065
Failures Over Time ... 4067

© 2026 Boyum IT Solutions A/S

Completed Orders ... 4068
Totals Area ... 4069
Maintenance Calendar ... 4069
Daily View ... 4070
Weekly View ... 4071
Monthly View ... 4071
Agenda View ... 4072
6 Beas views ... 4072

Part XIX Concepts 4073

1 APS Calculation Types ... 4073
2 Backflushing ... 4078
3 Batch Generation ... 4080
4 Breakdown (Item) ... 4085
5 Electronic Signature ... 4098
6 Four eye principle ... 4099
7 Last routing position ... 4099
8 Lot size ... 4100
Lot Size - Precalculation ... 4104
9 Keyfields ... 4107
10 Marginal costs and full costs ... 4108
11 MPS ... 4110
12 Negative Bill of Material ... 4110
13 Overhead costs ... 4112
14 Precalculation ... 4113
15 Post-calculation ... 4117
Standard costs method ... 4119
Projection of actual costs ... 4122
16 Pricing ... 4123
Pricing types ... 4124
Valuation at postings ... 4127
WIP account ... 4129
Production valuation and accounts ... 4131
Account movement (default) ... 4131
Valuation and posting of assembly ... 4133
Material and production overheads ... 4133
17 Reservation system ... 4134
18 RFID ... 4135
19 Resources ... 4137
20 Rounding ... 4138
21 Scheduling ... 4141
22 Scrap ... 4142
BoM Scrap ... 4143
Scrap of Material ... 4144
23 Station name ... 4147

© 2026 Boyum IT Solutions A/S

24 Tasks 4148
25 Terminal application 4149
26 Tolerance Days 4150
27 Total Quantity 4152
28 Unit Of Measurement 4156
UoMGroup 4160
Index 4162

© 2026 Boyum IT Solutions A/S

1 Introduction

Beas Manufacturing

Beas Manufacturing 2026.04

With Beas you receive a comprehensive solution for small and mid-sized manufacturing enterprises, fully integrated into SAP Business One.
It does not only provide fast and easy access to all business information, but also the additional reports and documents that are required for decision making in all departments of your company, like sales and distribution, purchase, accounting, production, and so on.
The documentation reflects the structure of the Standard Beas menu.

Release Notes

Beas Product Overview VIDEO:

Process manufacturing demo (english) (spanish)
References

General Information

Documentation structure
Beas for SAP Business One
Copyrights
Product life cycle management
Roadmap
Installation
Hardware requirements
Compatibility (SAP-Versions and SAP-Functions)
Beas user interface
Beas Usability Package
Concepts
Beas Script / Customization Documentation 2026.04.0
Documentation for previous Beas versions / Archive

© 2026 Boyum IT Solutions A/S

BeasScript

Script / Customization Documentation 2026.04.0

Documentation for previous Beas versions / Archive

Additional Information

Administration

Financials

Sales

Purchase

Inventory

Production

MRP

Human resources

Reports

SBO Menu View

SBO Menu Tools

SBO Menu Window

SBO Menu Help

Special topics

Product configurator

Calculation

Factory data capture

WEB-Applications 2.1

Certifications, Guidelines, GMP

Produmex WMS

PRODUMEX WMS Integration update

WMS Integration - infopackage

© 2026 Boyum IT Solutions A/S

Online Resources

The following list provides all online resources in addition to the manual that the add-on offers:

Main page

Product news and download

Beas Idea place, feature requests

Video Manual, e-Learning and FAQs

Most common issues with the add-on

Logon to support portal

License administration

Download offline license

Twitter

Youtube

1.1 Documentation structure

The documentation is organized according to the menu structure.

For each menu item there is an introduction with description of the main processes. You find links to detailed training materials on the respective issue.

Subsequent, all the fields, settings and screens are described.

The initial icon shows which information is given in the respective chapter.

Basics	Basic process descriptions. Links to training materials.
Field description	Only descriptions of fields and switches.
Concepts	Ideas and connections which go beyond a basic understanding. Often several different topics involved.

beas-Version	The Documentation refers to a single Beas version. The indicated version number marks the version from which the function has been available.
Variable	Definition of the internally used variable.
Windowname	Internally used window name

© 2026 Boyum IT Solutions A/S

beas-Version	The Documentation refers to a single Beas version. The indicated version number marks the version from which the function has been available.
`Script`	Scripts are displayed in this font
see	Links. Click the underlined word for direct jump.
link	Program path
Common fields	The content of some fields is shared with another window
Button	Button/function names are displayed in bold font.
Note	Important notes
PATH	Screen path to show where you can find the described window in the system
Example	Example
(+) Toggle	To keep the documentation clear, many parts are hidden. Click the plus symbol to expand extended information ⊟ Click the plus icon to expand and you can read the detailed explanation.
	Link to a Powerpoint presentation
/	Link to a video

1.2 Beas for SAP Business One

Integration into SAP B1

Beas is fully integrated in SAP Business One. There is no data held twice and no interface files are necessary. All changes carried out in Beas, are available immediately in SAP Business One.
On Compatibility with SAP Business One versions, please ***see***: Support Portal

© 2026 Boyum IT Solutions A/S

Multilingualism

Beas is fully multilingual.

- Notes:

Officially supported languages:

German
English
French
Italian
Simplified Chinese (P.R. China)
Spanish (Spain)
Portuguese (Brazil)

A number of other languages are available and supported by Partners.
In case there is a problem with a language or you need a new language, please inform our support.

Adaptation

Beas can be adapted easily. New windows, lists and reports which can be created using Crystal (R) or InfoMaker (R) and can be easily integrated. All major selection and list boxes can be set up without additional products or knowledge.

Certification, Guidelines, GMP

See notes Certification

1.3 Copyrights

Copyright, Trademarks, Disclaimers

Any documentation materials are subject to change without notice. These materials are provided by Boyum IT Solutions GmbH for informational purposes only, without representation or warranty of any kind, and beas group shall not be liable for errors or omissions with respect to the materials. The only warranties for beas group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

© 2026 Boyum IT Solutions A/S

This document is for informational purposes only. Its content is subject to change without notice, and Boyum IT Solutions GmbH does not warrant that it is error-free. Boyum IT Solutions GmbH MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE.

Coding Samples

Any software coding and/or code lines / strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended better explain and visualize the syntax and phrasing rules of certain coding. Boyum IT Solutions GmbH up does not warrant the correctness and completeness of the Code given herein, and Boyum IT Solutions GmbH shall not be liable for errors or damages caused by the usage of the Code.

Internet Hyperlinks

The documentation may contain hyperlinks to the Internet. These hyperlinks are intended to serve as a hint where to find supplementary documentation. Beas group does not warrant the availability and correctness of such supplementary documentation or the ability to serve for a particular purpose. Boyum IT Solutions GmbH shall not be liable for any damages caused by the use of such documentation unless such damages have been caused by SAP's gross negligence or willful misconduct.

Accessibility

The information contained in the documentation represents Boyum IT Solutions GmbH's current view of accessibility criteria as of the date of publication; it is in no way intended to be a binding guideline on how to ensure accessibility of software products. 2017 Boyum IT Solutions GmbH specifically disclaims any liability with respect to this document and no contractual obligations or commitments are formed either directly or indirectly by this document.

Microsoft, Windows, Excel, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.
Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.
Oracle is a registered trademark of Oracle Corporation.
UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.
Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.
HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Java is a registered trademark of Sun Microsystems, Inc.
JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.
SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP BusinessObjects Explorer, StreamWork, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.
Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects Software Ltd. Business Objects is an SAP company.
Sybase and Adaptive Server, iAnywhere, Sybase 365, SQL Anywhere, and other Sybase products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Sybase, Inc. Sybase is an SAP company.
All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.
SAP Business One – Additional Copyrights & Trademarks
.NET, SQL Server, Visual C++, Visual J#, and Windows Installer are registered trademarks of Microsoft Corporation.
InstallShield is a trademark of Acresso Software Corporation
Intel and Intel JPEG Library are trademarks of Intel, Inc.
Chilkat Controls are trademarks of Chilkat Software, Inc.
Apache is a registered trademark of The Apache Software Foundation.
Inno Setup Copyright © 1997-2012 Jordan Russell. All rights reserved.
XGANNT is a registered trademark of NETRONIC Software GmbH

1.4 GDPR Notes

The General Data Protection Regulation (GDPR) is a regulation by which the European Parliament, the Council of the European Union, and the European Commission intend to strengthen and unify data protection for all individuals within the European Union (EU). It also addresses the export of personal data outside the EU.

The GDPR aims primarily to give control back to citizens and residents over their personal data and to simplify the regulatory environment for international business by unifying the regulation within the EU.

It becomes enforceable from 25 May 2018.

It is to the best of Boyum IT Solutions A/S ability that Beas adhere to privacy by design as the add-on do not store any personal data beyond the SAP Business One database itself but below are references to how beas manufacturing handles its data.

General

All configured data are stored in the SAP Business One database itself and will not leave the customers system. It is the people responsible for the SAP Business One environment that is responsible for this data.

We have a few features/modules that communicate with online services and these are listed below but none of these contains personal information.

License System

Our online license check will at start-up of the add-in communicate with https://portal.boyum-it.com. During this call, we send the following information in order to verify you have a valid license
Installation + System Number
DB Name
Number of SAP Users and assigned Beas users
Database server name

Feedback System

The add-on has an optional Feedback system that on add-in shutdown and in case of errors send anonymous data to Boyum's internal Feedback servers. It sends the following data to us:
Add-on Version
SAP Version
OS Version
SAP User name
SAP Database name
Stats for each module (number of configurations etc. - nothing customer specific)

You choose on initial install if you want to participate or not and can at any time turn it off.
More information about the Feedback System can be seen here: http://www.boyum-it.com/sbo/uip

Personnel master data

© 2026 Boyum IT Solutions A/S

The operators of the shop floor are represented on Beas as “Personnel”; this information is collected at the Personnel master data table BEAS_PERS, the mandatory personal data collected here are: Fist name and Last name.

Other fields of the table as part of Beas attendance module like (shift definition and rules), terminal module (as card_id to identify to the terminal, language and user rights) and cost calculations and accounting module (cost rates and cost centers related)

Beas has its own personnel table separate from SAP Business One employee table, however we could connect the SAP Business One employees data with Beas Personnel data, but this is not mandatory, personnel master data may exist in a Beas table which is not in an SAP Business One table.

When a Beas Manufacturing add-on is installed in a SAP database which already have employees created, the “data check” function provides an optional tool to copy SAP employees data to Beas personnel table. SAP Business One employee ID, name and last names will be copied to a Beas table.

See Personal data management

Time recording

As part of the factory data collection functionality, we record the time effort of the production operations. This information could be reported directly by personnel when they connect to the terminal and report a time receipt or could be reported by a responsible from the company to manage it through the time administration screen or directly at the work order. In any case a personnel ID is linked to a time receipt.

Terminal tracking

When stock transactions are reported using a terminal app, each terminal has an associated sap user, however, the personnel ID is also saved in the SAP Business One document in order to identify who created the SAP Business One document as additional information for tracking purpose.

Attendance module

If the attendance module is activated, Beas allows recording employee attendance information, absence, holidays and shift details by employee.

Quality control

For the electronic signing when a sample is approved to release, the personnel Name and last name is saved at the quality control order.

© 2026 Boyum IT Solutions A/S

A quality control order can contain a business partner ID, the name of the business partner name will be also saved.

Interruptions

When an interruption is reported, the personnel name and last name is saved when the user starts or ends the interruption additionally to the personnel ID.

Work order, Maintenance Order and complaint

The business partner name is also saved when a Beas document is created for work orders, maintenance order and complaint system.

1.5 Certification

Information on

System-based inspection approach

ERES Requirements from global regulatory agencies

FDA Approval process:

- Stage 1: Process design
- Stage 2: Process qualification
- Stage 3: Continued process verification
- Audits and audit trails
- System validations
- Electronic signatures
- Documentation

EU GMP Annex 11: Computerized Systems

ANVISA (Brazil): ANVISA Resolution – RDC n. 17

PFSB/ELD Notification No. 0401022 of Japan

PHARMACEUTICAL CGMPS: A RISK-BASED APPROACH

OTHER INTERNATIONAL GMP GUIDELINES:

- PIC/S Guidance
- ICH Guideline
- Chinese State Food and Drug Administration

Functionality in Beas Manufacturing that may be regulated:

- Materials management

© 2026 Boyum IT Solutions A/S

- Plant maintenance
- Production planning
- Production planning for process industries
- Quality management
- Sales and distribution
- Logistics execution
- Environment, health, and safety
- Human resources and training information
- Warehouse management

Central functions include:

- Batch management
- Handling unit management
- Document management

Cross-application components include:

- Engineering change management
- Classification
- Document management
- Electronic records (audit trail)
- Digital signature
- Notifications
- Records and case management
- Master data governance

Electronic records:

- Configuration within the implementation guide
- Transports and business configuration sets used to migrate configuration from one software system to another
- Master data such as the material master, vendor, resource, recipe, and customer
- Business processing objects such as purchase orders, process orders, and inspection lots
- Electronic records for business processes or transaction execution, such as material documents
- Electronic or digital signatures

Table Logging

Audit Trail

Date and time stamp

Electronic and digital signatures in Beas Manufacturing

© 2026 Boyum IT Solutions A/S

Beas quality control, release and support process of patch levels – synchronized with SAP

GAMP5 – Software Category 4 (Configured Product)

Validation approach to achieve compliance:

- Conducting system compliance assessment
- Defining Part 11 requirements
- Defining the overall strategy in the validation master plan and determine how the system will be deployed as per software development life cycle (SDLC) methodology
- Conducting good practice assessments at the business process level
- Developing security authorizations according to SDLC. Establish functional requirements specifications for job
roles
- Configuring software to activate complete audit trail reporting and electronic signatures
- Testing the system
- Training users for all transactions within their profiles

Supported business processes:

- Make-to-stock, make-to-order, engineer-to-order / projects
- Assembly / configure-to-order / variant production
- Supply chain management process integration
- All mixed-mode types

Benefits of Beas Manufacturing:

- Above-average functional industry coverage and process support
- Quick, effortless and cost-effective implementation. Industry specifics are considered, integrated and available from the very outset.
- Best-practice process, including options for easily and flexibly modifying or adding integrated business scenarios to meet your individual business requirements/typologies across all process chains.
- Transparent process analyses (“inside views”) support companies in continuously reviewing the effects of optimization projects (such as lean manufacturing, improving product margins, etc.) using defined KPIs
- Use and integration of the latest technologies and innovations, from SAP ERP certified integration to SAP HANA and analysis applications, as well as SAP cloud and mobile solutions.

See examples to industry benefits and best practices in the Beas Manufacturing industrial regulations document:

© 2026 Boyum IT Solutions A/S

Beas White Paper for regulated industries

1.6 Product life cycle management

General information on Lifecycle Management

- Version number configuration

Since 2020, Beas Manufacturing has applied the following Version number concept:

Beas Manufacturing yyyy.mm[.rr[.bb]] [Database Type][BETA]

Part	Description
yyyy	Release Year
mm	Release Month
rr	Sub Release (Hotfix) Only visible if Release > 0 or BETA Mode
bb	Build (compilation) number Only visible if Release > 0 or BETA Mode
Database	MSSQL or HANA
BETA	"BETA" only displayed if this patch level is still in development

Example:

Beas Manufacturing 2020.02 for MSSQL > Version from February 2020

Beas Manufacturing 2020.05.01 for HANA > Version from May 2020, Release 1 for HANA

Beas Manufacturing 2020.02.00.05 for MSSQL (Beta) > Beta Version from February 2020, Build 5 (compilation number)

In **Help > "About Beas"** you can always see the complete Beas Version number.
In the Debug log the system always inserts the complete Beas Version number.

- Version – Status: Beta-Version, Released Version, Supported Version, Unsupported Version, Customer Version

Version

A version defines a certain patch level, e.g. `Beas manufacturing 2020.02`
A version may be subdivided into sub release (Hotfix), which do not contain program extensions e.g. `Beas manufacturing 2020.02.01`

© 2026 Boyum IT Solutions A/S

BETA – Version (During development)
From start of development, quality is checked based on tickets. You may request a BETA Version, but it is not allowed to run it in productive environment.
One week before a release the development is finished, and a one-week extended quality check is performed. At this point, the development of the next version starts.

Released – Version: Release
After the successful completion of quality checks, the version is released.
Then it receives then version number: `Beas 2020.02`

Hotfix Release / Subsequent corrections
If severe errors are found after the release, a Hotfix is created and released.
The found errors are always fixed based on the latest version. Therefore, when a Hotfix is required, it is provided based on the latest release.
Characteristics of severe errors:
- reproducible at several clients
- cannot be avoided using workaround
- productive use is impossible for several clients

Supported Version
As soon as a new version receives the status "Released Version", the preceding patch level receives the status "Supported Version". This means, for this version, full support is provided.

Unsupported Version
A Beas - version is always compatible with a SAP Business One version (***see*** Compatibility of Beas with SAP Business One). If SAP terminates the support of a SAP Business One - version, the Beas - version receives the status "*unsupported Version*". At that point, the claim of free support expires.

- Roadmap of releases

As the flowchart below indicates, 5 new Beas Manufacturing versions are scheduled for 2026.

Quarter 1
2026.02 - end of February
See Roadmap 2026.02

© 2026 Boyum IT Solutions A/S

Quarter 2

2026.04 - end of April

See Roadmap 2026.04

2026.06 - end of June

See Roadmap 2026.06

Quarter 3

2026.09 - end of September

See Roadmap 2026.09

Quarter 4

2026.11 - end of November

See Roadmap 2026.11

1.7 Customizing

Beas is customizable and flexible. For more on Customizing ***see:***

Beas Script / Customizing Documentation 2026.04.0

Note: Customization is not always the best way to adapt the program exactly to customer needs. Customization might lead to increased maintenance requirements. Beas offers many settings and possibilities. Always check first for standard alternatives in Beas before making any adjustments.

Maintenance

© 2026 Boyum IT Solutions A/S

The customization does not form the part of maintenance package. Use our \ & A Forum or premium support, if you need help with your customization.

Update or Upgrade

It is not possible to deliver a completely backward compatible solution. SAP Business One and Beas deliver new functions and old functionality must be deleted after some years. New tables might be available and some tables columns might not be supported in the upcoming versions.

See Compatibility.

Note: Any customized solution and the main work-flows must be tested before updating or upgrading.

The following all fall into the customization area:

- Any Beas script solution
- Beas usability package and macro script
- Crystal reports
- Dashboards
- Variant system formulas
- SQL formulas, SQL queries
- Product configurator solutions
- Templates
- Macros
- Any other tool that changes the front-end or functionality

© 2026 Boyum IT Solutions A/S

1.8 Compatibility

General functions

Area	Description
Database compatibility	All MSSQL and HANA Versions are supported, which are supported by current Versions of SAP Business One **MSSQL 2008** and older: Not supported. **MSSQL 2017**: with Beas 9.3 PL 0 Build 31, Beas 9.3 PL 1 and higher. **MSSQL 2019**: with Beas 2020.08 (Note: you need SAP 10.2 or later) **MSSQL 2022:** with Beas 2025.02 (Note: you need SAP 10 FP 2405 or later) Connection to the database is possible with different database drivers. The selection of the driver is done automatically and needs no manual change by the user.
Windows OS	By server and client, all Windows versions are supported which are supported by SAP Business One. Currently supported version: Windows 11. Windows 7,8,10: Not supported
64 Bit	The 64 Bit version of Beas Manufacturing is delivered with 2020.03.
SAP Business One WEB ACCESS	⊟ Not supported SAP will Stop to deliver this functionality. Read more in this article: https://blogs.sap.com/2019/06/13/sap-business-one-the-future-of-browser-access/
SAP 10.0 WEB Client	Supported from Beas 2026.04 ***See*** Beas Web Client documentation.
SAP hosted Cloud	⊟ No support **Q: Have you guys written poor code since you can't run on SAP Cloud?**

© 2026 Boyum IT Solutions A/S

Area	Description
	A: No. In fact, all of Boyum's products are successfully running in the Cloud, with various 3rd-party hosting providers. SAP has set certain restrictions on what they will allow on their platform for maintainability reasons. SAP and Boyum IT are working together toward the goal of having all Boyum IT solutions eventually run on the SAP-hosted Cloud. **Q: Why have SAP set such high restrictions?** A: SAP is striving for a high level of automation and standardization, which will ultimately ensure that the SAP-hosted Cloud is affordable, reliable, and meets the highest standards for security. **Q: Will Beas be available for SAP hosted cloud** A: We strive to keep Beas compatible with all previous installations. As a result, we are unable to comply with the restrictions of the SAP hosted cloud. However, we will provide alternative hosted cloud solutions.
Hosted Cloud	Beas 2020.02: Lightweight installer supported (installation via Cloud Control Center CCC) Note: We do not support SAP Hosted cloud.
Cloud "On Premise"	Fully supported.

Compatibility with SAP Business One Versions

SAP Version	Beas Version
SAP Business One 9.3 all Patch Levels (out of maintenance: 2021/12/31)	Beas 9.3 - out of maintenance -, all Patch Levels up to Beas 2023.06.

© 2026 Boyum IT Solutions A/S

SAP Version	Beas Version
SAP Business One 10.0	Beas 2023.06 and following versions. Note: ONLY Beas 64bit version is working with SAP10.
SAP Business One 2508	Only compatible with Beas 2025.09 and later. ***See*** more information in the following article.

Functional Compatibility

New Functions available in SAP Business One since

Function	Compatibility information
Material requirement planning (MRP)	This function is overridden by Beas MRP because this provides an extended functionality.
Inventory	The SAP Business one inventory is overridden by Beas inventory, because offers and extended functionality.
Human resources	Personnel administration with SAP Business One 7 was synchronized with Beas personnel administration.
Key fields	In key fields (item code, card code and so on) not all characters allowed. ***See*** key fields.
Cancellation of sales documents	SAP Business One introduced the feature "cancellation" for sales documents. It is important to always enter positive quantities (field "quantity") even if the actual quantity is negative. Customized extensions need adaptation. Various sales reports delivered until version Beas 2009 need to be reviewed as they are no longer supported.
Relationship MAP	Not supported.
Alternative keyboard usage	No support of General Settings – Display – Alternative Keyboard settings.
Accounting Enhancements According to IRFS	Not supported.
Reopen purchase order	No support in the area "External process".
UoM Groups UoM Price List	Beas does not support UoM Price List in precalculation. Plan is to integrate this functionality in next versions.

© 2026 Boyum IT Solutions A/S

Function	Compatibility information
IT VAT	Note 2775566 IT Localization. Tax Summary – VAT Date You need Beas 9.3 PL 2 Hotfix 2 or higher if you intend to use this SAP Version in Italy.
PTICode	Argentina PTICode not supported, but it is possible to insert support by customization. ***See*** BeasScript Customization by window.
SAP period end closing	Manufacturing transaction documents (WO issue and receipts) ignore SAP period end closing.

1.9 Performance recommendations

A summary of performance recommendations is detailed in the table below.
"Maximum" means: If you have more entries, you may try working with other alternatives described in the "Area" section.
If this is not possible, check if SAP Business One / Beas has the correct solution for the requirement.

Recommended Screen Resolution:

The overall, tested minimum recommended monitor screen resolution is 1366x768.

Area	Good performance	Maximum *1)
Bill of Materials positions per assembly. Maximum of Bill of Materials Entries by Position or work order **Attention:** If you work with Phantom items, the count of BoM Entries is the sum of all BoM Positions of all Phantom items.	< 500	5 000
Routing positions per assembly or Work order	< 500	5 000
Sub structure: max. Levels	< 20	20
Count of sub positions in work order or calculation. TIP: If you need more Positions, you can split them to several work orders.	< 50	500
Count of BoM/Routing total in work order.	< 10 000	50 000

© 2026 Boyum IT Solutions A/S

Area	Good performance	Maximum *1)
The number is related to "active" Bill of Materials Position. This number is related to "per MRP Scenario". ***Example:*** If you have 1 000 000 open BoM Entries for the next 12 months, but in your scenario you must calculate only next 2 weeks ~50 000 entries, it runs without problems. If you have too many entries, MRP can crash. In this case you can change activate the calculation by block, example read next 10 000 entries, calculate, read next 10 000 entries. You can activate this for existing MRP scenarios with the following command: `update "BEAS_MRP_PLANUNG" set FTSTLBlock = 10000` If you create new MRP scenarios, you must execute the SQL statement again.		
Count active work order positions APS Calculation / Scenario: Max 2000 Work order position and max. 10 000 active routing positions and bill of material positions. Workaround: Create different scenarios	< 1 000	10 000
Count actual running routing position	< 50	500
Count of open sales order	< 500	5 000
Count of Demands / MRP Scenario Sum of all Demands (Work order, Sales order, Purchase order)	< 50 000	500 000

© 2026 Boyum IT Solutions A/S

Area	Good performance	Maximum *1)
TIP: You can reduce the count with - Split between long- and short time planning. - Activate the summary function for the complete scenario or for all items that do not need detailed information.		
Count of Items Check if you need a new item for every Variant. In Beas it is possible to create a work order from a Calculation, by Variant or by Configuration without creating master data previously. Work with Item Version: You can define Versions of an item without creating a new Item Master Data.	< 10 000	100 000
Count of Warehouses If you need a warehouse by customer or external warehouse, you can work with Bin Management and can define a Bin Location for every Customer.	< 20	100
Count of Business Partners	< 10 000	200 000
Count of parallel users	< 100	500
Price list in SAP Currently max. 99 price lists are supported. If you have more then 99 price lists, use only price list 1–99 inside Beas valuation.	99	99
Count of WEB Clients/Service Version 2.1 Web Performance: We recommend to split the Web service for each group of 10 concurrent users to ensure better performance. TIP: This ensures the parallel availability of several services. If several web services are configured and one of them stops working, the users connected to	< 20	50

© 2026 Boyum IT Solutions A/S

Area	Good performance	Maximum *1)
that particular service can manually connect to another available service and continue working without waiting for the service to be restored.		
Count of Transaction / Min With an extensive number of transactions inside SAP Business One or in SAP Business One over Beas, SAP Business One may lose performance. This may cause database locks for up to some minutes.	< 10	20
Count of Transaction / Day Recommendation based on the internal functioning of SAP Business One: As the high number of transactions may cause the system to slow down gradually, it is important to clean up the database every year with the SAP Business One Tools.	< 1 000	10 000
Max. lines per Transaction document Beas use SAP Business One for every transaction (receipt, issue, purchase order and so on) SAP Business One allows for handling a maximum of 10 000 rows.	< 1000	10 000
Max. Database Size	< 20 GB	100 GB
MRP Calculation time • Hardware: Where calculation is performed, the computer should meet the following minimum requirement: o Adequate processing power o At least 4GBs of main memory. ***See*** 32 Bit with 4 GB Memory		

© 2026 Boyum IT Solutions A/S

Area	Good performance	Maximum *1)
o Make sure that a minimum number of parallel services are running. A parallel running database service. for example may block the memory. • Large number of items in the database: If the database contains a large number of items, the number of items to be displayed should be limited. o Display only purchase products, only in-house production, or only some of the items properties. o Display only items with planned inflow or outflow, or inventory shortfall (check for minimum inventory). This is set up in the scheduling scenario – planning. • A lot of peggings: A lot of peggings create a lot of records. This may adversely affect the calculation time. To speed up the calculation, try to summarize daily, weekly or monthly. This can be defined in the MRP scenario, but also on item level. • The calculation of lead time for assemblies is computationally intensive. Work with the replenishment lead time instead. This might be a little more inaccurate, but it reduces the computation time significantly. ***See*** Detail – calculate lead time for assemblies. • Forecasts: Forecasts can be calculated using gross calculation. This computation is less exact, but faster and is sufficiently accurate for long-term planning. ***See*** Detail – gross calculation • Overnight calculation: Use a server services to compute the list automatically overnight. ***See*** Automatic calculation. • Check Count of entries in BoM. ***See*** Count of Bill of Materials • MSSQL: Defragment the database.		

© 2026 Boyum IT Solutions A/S

1.9.1 MSSQL-Defragmentation and Renidexing

If the program is slow, Defragmentation can help.

> Note: NOT FOR HANA Database

SAP Note1241422 from 2016/12/4, Version 11 from 2021/02/07
Related to SAP Note , 1376447, 2258305, 1564494

Symptom

During operation, databases of SAP Business One become fragmented due to insertions, updates, and deletions of data. Fragmentation exists when indexes have pages in which the logical ordering, based on the key value, does not match the physical ordering inside the data file. Heavily fragmented indexes can degrade performance.

Solution

We recommend running the RSP task on a monthly basis to perform a database re-index on your customer's database. Please refer to RSP Task 1469218 for the task details. Alternatively you can run the script below from SQL Server Management Studio:

```
/*Reindex procedure. Will execute dbcc dbreindex on each table in db*/
DECLARE @tableName as sysname
DECLARE @strExec as varchar(1000)-- Cursor declaration
DECLARE tableNameCursor CURSOR READ_ONLY FAST_FORWARD FOR
-- Take all user table
        SELECT [name] FROM sysobjects WHERE xtype = 'U'
        OPEN tableNameCursor
        FETCH NEXT FROM tableNameCursor INTO @tableName

        WHILE @@FETCH_STATUS = 0
        BEGIN
        -- Create the statement
                SET @strExec = 'dbcc dbreindex (''' + @tableName + ''','''',0 )'
                -- Execute the procedure
                exec (@strExec)
                FETCH NEXT FROM tableNameCursor INTO @tableName
        END
        CLOSE tableNameCursor
DEALLOCATE tableNameCursor
```

1.10 End of support functions

End of support:

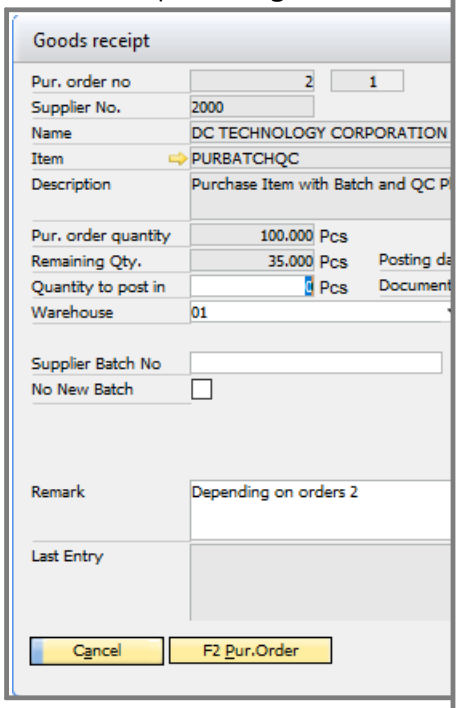
Function/Area	End of support
KABA Benzing:	from Beas 9.3 PL0

© 2026 Boyum IT Solutions A/S

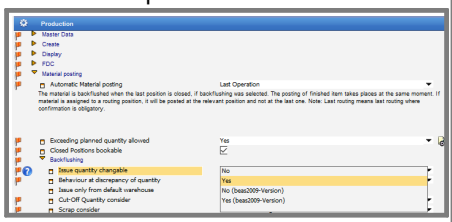
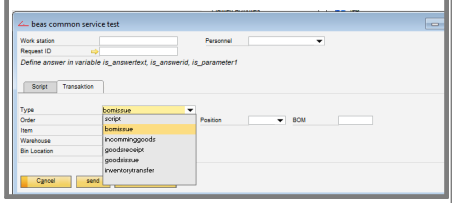
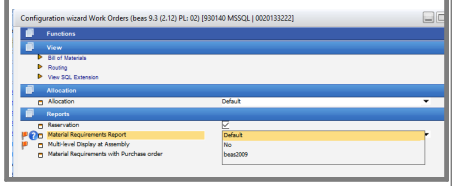
Function/Area	End of support
K.B. devices are no longer supported. Alternatively, any WEB-compatible device can be used with our WEB Application.	
MS Project Integration is no longer supported.	from Beas 9.3 PL0
Formpak integration interface is no longer supported.	from Beas 9.3 PL0
MSSQL 2008 is no longer supported.	from Beas 9.3 PL02
Windows 7	2020/1/14
Windows 8.1	2023/1/10
Windows 10	2025/10/14

Functions going in maintenance:

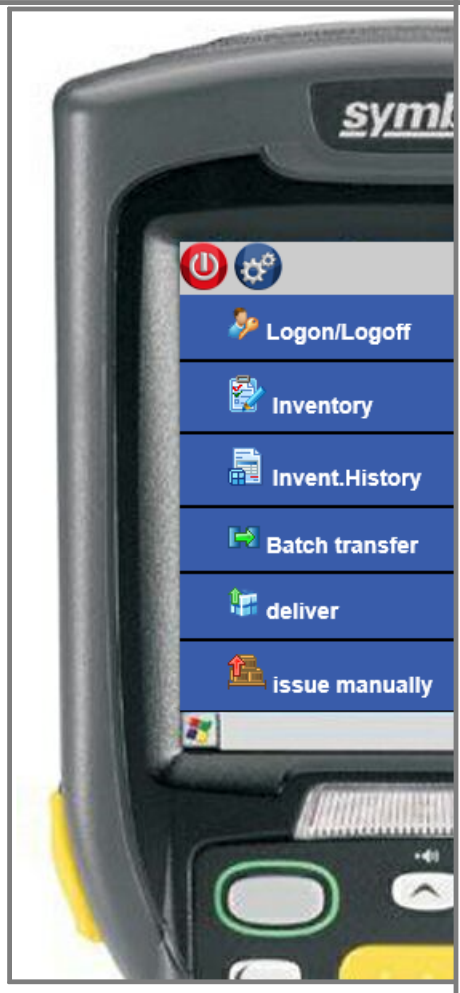
- We do not insert new functionality.
- We do not work on compatibility with new SAP Versions.

Function	Start "in maintenance" from	Function canceled
Goods Receipt PO Single Process: 	2/2019	1/2021

© 2026 Boyum IT Solutions A/S

Function	Start "in maintenance" from	Function canceled
For more information ***see*** Goods receipt PO Single process.		
Back-flush process 2009 version: 	1/2010	2/2020
Beas common service – all transaction types: In the future only "script" and "JSON" will be available. 	1/2010	6/2019
Work order Structure window: - Allocation - Beas2009-Version. - Material requirements report – Beas 2009-VersION 	1/2010	1/2020
WEB APP Terminal Version 1 We are working on a new Version wl old Terminal solution. No modificati Development of a solution for custo	2/2019	6/2020

© 2026 Boyum IT Solutions A/S

Function	Start "in maintenance" from	Function canceled
		

Beas Script and objects

Changes in workordermanagement / stockmanagement and other user events Most events from workordermanagement / stockmanagement were not working on WEB / BeasServiceLayer side. Reason: The operation was based on a completely different logic. With Beas 2020.05 we created documentation for the functionality.		

© 2026 Boyum IT Solutions A/S

	Additionally, support will be added to this in all transactions with a defined concept.
	
	Problem:
	It is not possible to deliver 100% compatibility.
	The system will check the "old" event name, as well, and try to deliver all old variable names.
	
	Example
	Old syntax:
	workordermanagement.src
	`fucntion receipt`
	`// Variable e_belnr_id,e_belpos_id,e_pos_id`
	`end function`
	
	New syntax
	workordermanagement.src
	`function ReceiptLine`
	`// Variable`
	`WoDocEntry,WoLineNumber,WoLineNumber2`
	`// BUT function receipt with e_belnr_id and so on is working too`
	`end function`
	
	What is changed:
	- the script is executed in a sandbox
	- all changed variables are only visible inside the sandbox, but you can see all variables outside it
	- userevents have the exact same functionality in all different booking processes
	(before: different functionality always causing errors)
	
	Compatibility to old variant is > 95%		

object ue_materialwirtschaft	Please use BeasServiceLayer for all transactions. Follow functions/objects will be deleted: - wareneingang, receipt	2/2019	6/2021

© 2026 Boyum IT Solutions A/S

- wareneingang_beistellteile - warenausgang, issue - transfer - wareneingang_fertigung - buchen_umrechnung - buchen_manuell - versand_mengeneingabe - versand_lieferschein - incominggoodwindow - lieferscheinbuchen - retourenbuchen - rechnungbuchen - gutschriftbuchen - versandberechnung - buchungszuordnungen		
object ue_fert_tools Please use BeasServiceLayer for all transactions. Follow functions/objects will be deleted: - einbuchen - einbuchen_buchen - ausbuchen - einbuchen_zeiten	2/2019	2/2021

1.11 Hardware requirement

Database Version and Server Sizing

Hosted Enviroments

Device / Client requirement

© 2026 Boyum IT Solutions A/S

Requirement for a Demo

1.11.1 Server sizing

When installing the SAP Business One system together with Beas solutions, both the hardware recommendations of SAP and Beas should be taken into account.

Note:

This document describes the additional hardware recommendations that should be considered besides SAP hardware recommendations.

Any deviation from these recommendations can lead to heavy performance issues.
All the recommendations in this document are minimum recommendations.

General recommendations

The general recommendations are independent from the product or components. Specific product-related recommendations are additions to the general recommendations.

Latency and bandwidth requirements for SAP Business One and Beas

All SAP Business One components must be installed in the same LAN (local area network).
Putting client and server into two different locations (e.g. VPN) will have an impact on the performance of SAP Business One. Thus, latency should be as low as possible (< 1 ms).
Same LAN means:

- Sufficient bandwidth > 100M.
- Small latency < 1 ms.
- Same WINS server.
- Same local DNS server – if configured.
- Same AD server – if AD is being used

Database server (MSSQL)

Supported MSSQL Versions: 2012 SP 4, 2014 SP 3, 2016 SP 2 and 2017.

Note:

- Always use the last upgrade of the MSSQL Version.
- Beas is always optimized for the newest MSSQL Version.

Memory

© 2026 Boyum IT Solutions A/S

The amount of memory allocated to the MSSQL process should be at least equal to the total size of the production databases on the server. Only the size of the MDF files should be taken into account. The size of the log (LDF) files should be ignored.
The maximum server memory allocated to the MSSQL process should be set by leaving a sufficient amount of memory free for the operating system. The amount of memory to be left free depends on the operating system. Efficient setting: Iteratively, by monitoring the amount of free memory.

Note:

- It is recommended to use the archiving functionality whenever possible in order to decrease the size of the production databases, and thus also the amount of memory needed on the database server.
- The database growth should be taken into account when calculating the size of the databases.
- For Minimum Memory information ***see*** additional SAP Hardware Requirement Guide.

Example:

3 production databases of 65GB, 20GB and 5GB: total 90GB.
The operating system requires 8GB to operate.
At least 98GB of memory should be present on the server, out of which 90GB should be allocated to the MSSQL process.

Database server (HANA)

- HANA

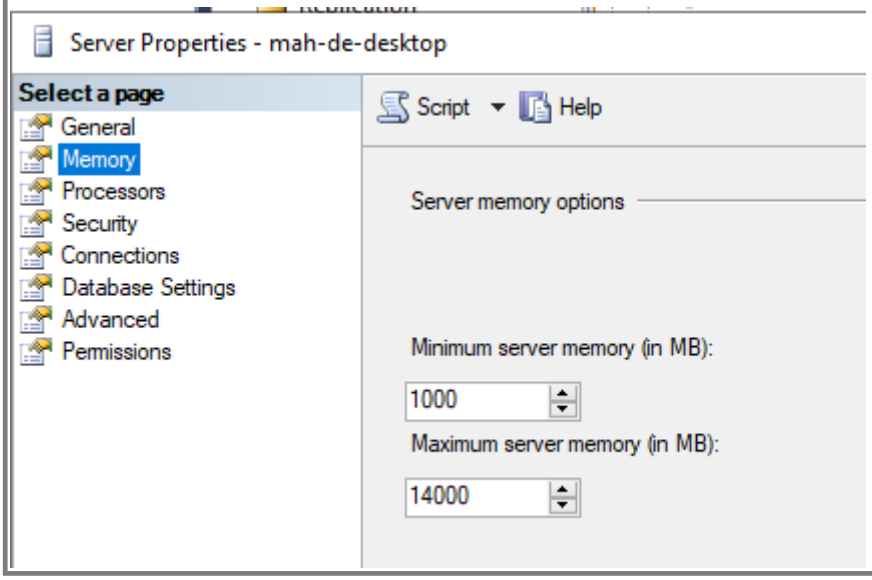
Memory A strict minimum of 128GB of memory should be present on the server. The amount of memory should be at least equal to the total size of the production databases on the HANA server. Note: the database growth should be taken into account when calculating the size of the databases.

- MSSQL

Memory Minimal 32 GB on server For Demo installation 8 GB Server Properties - Memory

© 2026 Boyum IT Solutions A/S

Minimum Server memory = 1000 MByte. If you don't define this, the program will be slow. For DEMO machine the same.
On SQL server define 4000 MByte and more. Maximum must be the available memory



Example:

3 production databases of 65GB, 20GB and 5GB: total 90GB.
90GB < 128GB → A minimum of 128GB is required.

Summary

Database	MSSQL	HANA
	Minimum 32 GB memory Minimum memory size = DB size +30 GB memory / 1000 transaction lines CPU = 4 + users x 0.25	Minimum 128GB memory Minimum memory size = DB size +50GB memory / 1000 transaction lines CPU = 8 + users x 0.5
Scale service	2 GB memory by Beas Service 1 CPU / 4 scales	
Other services	Requires specific analysis.	

Combination with additional AddOns

AddOn	Description
Boyum B1UP	No additional requirements.

© 2026 Boyum IT Solutions A/S

AddOn	Description
Boyum WMS	Minimal requirement defined in the Boyum WMS documentation.

1.11.2 Hosted Environment

Citrix XenApp Edition

or

Windows Terminal Services hardware requirements, as stipulated by the manufacturer.

Recommendation

For WAN connections, use the Remote Desktop Protocol (RDP).

Per concurrent user:

SAP Business One application > 1 GB

Beas > 0.5 GB

Citrix or WTS Client Sessions – For recommended requirements, refer to Citrix or WTS documentation.

For other applications like partner add-ons or e-mail clients , contact your solution provider for recommended requirements.

Example:

Your system is required to run:

Windows Server and Citrix Server 8 GB *(For details, refer to the Microsoft Windows system requirements and the respective Citrix document.)*

10 SAP Business One concurrent users

10 Beas AddOn > 0.5 GB

Calculate the required memory as follows:

For SAP Business One / Beas User

Each concurrent user requires

1 GB for SAP Business One

+ 0.25 GB for Citrix session and partner add-ons

+ 0.5 GB for Beas

1.75 GB

© 2026 Boyum IT Solutions A/S

Total memory required is
8 GB for Windows and Citrix server
+ 10 concurrent users x 1.75 GB for each user
= 27.5 GB

For Terminal Clients (Beas Terminal)
0.5 GB for Beas +
0.25 GB for SAP Business One DI API
0.25 GB for Citrix Session
= 1 GB per User

Note:
Beas saves all local settings in the directory.
`%programdata%\beas`
This directory is not allowed to be deleted after ending the logoff, because the server connection information are stored there, as well.
Consider that the station name is unique at terminal server.

- See notes on determination of station name.

  All Beas sessions need a unique station name. The BIOS name of the current computer is read out when Beas is installed locally.

  The `clientname` environment variable is read and used if it is a terminal server.
  The current Windows user (`username` Environment variable) is used as the station name if the `sessionname` environment variable begins with `rdp` or `ica`.

  The optimal setup for a remote server is the following:
  - The `sessionname` environment variable begins with `rdp` or `ica.`
  - The Windows user must be unique and stored in the `username` environment variable.

A distinct client name for each client is necessary, otherwise problems may occur during the license checking. This is defined in the environment variable "`clientname`".

1.11.3 Device requirements

This chapter describes the optimal device requirements.

Desktop normal user

© 2026 Boyum IT Solutions A/S

Property	Value
OS	Windows 7, 8 or 10, 32 and 64 Bit.
Memory	2 GB.
CPU	Core i3 or better, min 2 GHz.

Desktop heavy user (APS, MRP calculation, Pre calculation)

Property	Value
OS	Windows 7, 8 or 10, 32 and 64 Bit.
Memory	4 GB Note: Beas is a 32 Bit solution and can address only 2 GB (Limitation from Windows). ***See*** 32 Bit with 4 GB Memory.
CPU	Core i5 or better, min 2 GHz.

Terminal Application

Property	Value
Windows OS	Windows 7, 8 or 10, 32 and 64 Bit.
Memory	2 GB.
CPU	Core i3 or better, min 1.5 GHz.

Note: The terminal application is optimized for Mouse/Keyboard and not touchscreen.

WebApp Terminal 1

Property	Value
OS	Windows ME, Windows 7,8 or 10, iOS, Linux, Android all versions, 32 and 64 Bit
Memory	64 MByte
Browser	All Note: Windows CE: Not all Apps supported. Example Inventory counting
Screen resolution	240 x 240

WebApp Terminal Version 2.1

Property	Value
OS	Android, iOS, Windows XP or newer

© 2026 Boyum IT Solutions A/S

Property	Value
Memory	2 GB
Browser	All modern browsers (for example: Edge, Chrome, Firefox, Safari).
Screen resolution	640 x 400
Bar code Support	The system must send the Bar code to the Keyboard.

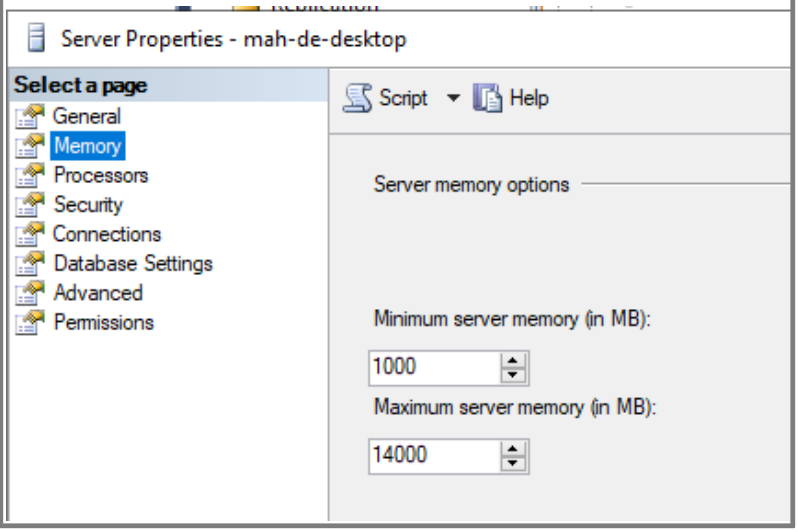
1.11.4 Demo solution

For the presentation of the Beas product you can use a Notebook as Server and Client. Only MSSQL Version.

Desktop normal user

Property	Value
OS	Windows 8 or 10, 64 Bit
Memory	16 GB
CPU	Core i5 or better, 4 Cores, min 2 GHz
HDD	SSD, 64 GB or more

Software requirements

Software	Version
SAP Business One	Latest version of SAP Business One.
MSSQL	Min. Memory = 16 GB In SQL Server properties define "1000 MB" as "Minimum server space. Otherwise the program will be slow. 

© 2026 Boyum IT Solutions A/S

Software	Version
Beas	Last Beas version from https://download.boyum-it.com

1.12 Beas user interface

Beas is completely integrated into SAP Business One but it can be started outside of SAP Business One as well.

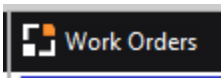
Window control
Main menu
Data selection
Multiple selection
right-click menu
Lists
Structure view
Window settings
Templates
Icons
Color selection
Image selection
Debug window

1.12.1 Window control

Window control
Main menu
Data selection
Multiple selection
right-click menu
Lists
Structure view
Window settings
Templates
Icons
Color selection
Image selection
Debug window

© 2026 Boyum IT Solutions A/S

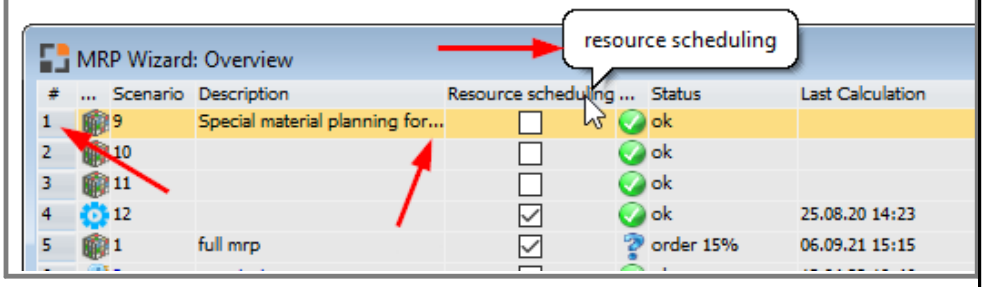
All Beas-windows are marked with the Beas logo at the bottom right corner:
In **Boyum Style**, the (inverse) Beas logo is located in the top right corner of Beas windows:



Each window has a uniform basic layout:

- Top: Tab
- Center section: List, data display or data entry
- Bottom: Button, search field

There are different types of windows

Browser	Lists and column/grid structure where the user can define the sequence and width of particular information items. - **Tool tip** assists at the column headers to display long field names that are only partially visible in the header if you downsize columns. ***Click to see*** Tool tips for special icons/characters. - **Single left-click on the line number** opens the the related edit window - **(...) Three dots** appear at the end of the "Description" field when only a truncated part of the description is visible. 
Edit	Detailed data entry window with a fixed layout.
Structure	Convenient structure view with fixed layout.

Customer-specific windows have a blue square in the center of the Beas icon.
Windows containing customized extensions have a small red square in the center of the Beas icon:
.

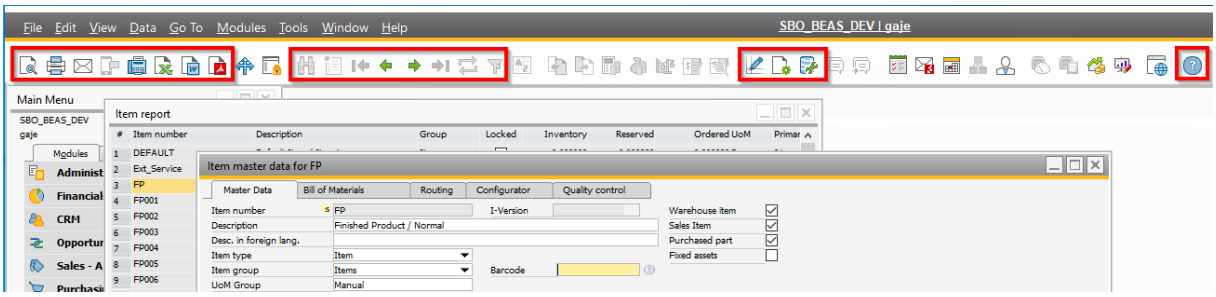
In **Boyum Style**, the bottom right corner has these functions separately: Click on the orange dot to access customizations, and the bottom corner icon to manage Templates:

© 2026 Boyum IT Solutions A/S

In some windows binoculars, spyglasses are shown in the right bottom corner, indicating that the list contains more entries than it is currently displayed. A filter has been applied.

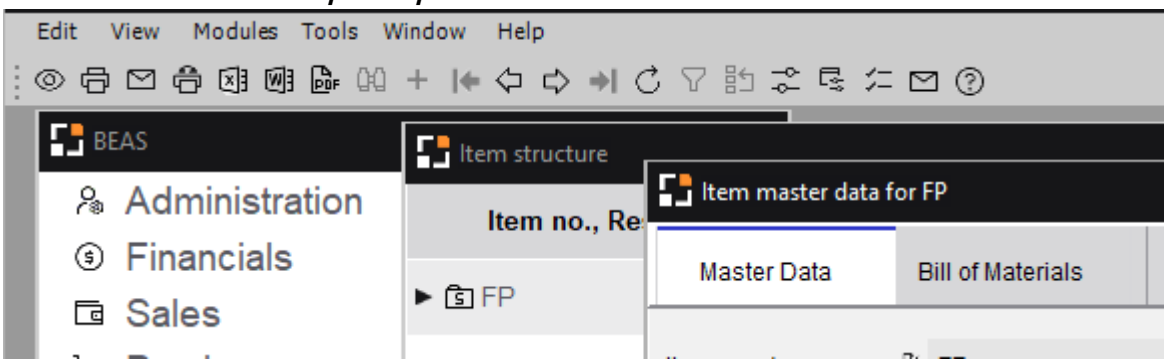
Tool bar - SAP

The SAP toolbar is supported in Beas. All marked icons can be used:



Note: The Beas standalone also has the toolbar with the SAP icons, but only icons supported by Beas are available.

Tool bar - Standalone "Boyum Style"



In the tool bar the main functions are available (move the cursor on the icon, the function is displayed)

Most of the functions can also be accessed via right-click menu.

- Tool bar icon descriptions

Icon	Boyum Style	Meaning
		Preview of the current window
		Print the current window
		Create an Email

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Meaning
		Send the current window as a Fax
		Export the current window in Excel format
		Export the current window in Word format
		Export the current window in PDF format
		Open the search mask
		Create a new entry
		Copy the selected entry
	not used in Beas (only SAP)	First record
		Move to preceding entry. This is also possible in the right-click menu.
		Move to next entry. This is also possible in the right-click menu.
	not used in Beas (only SAP)	Last record
		Edit the selected entry
		Filter settings for the current window
		Open the export settings.
		Show cross-references
		Open Report settings. - SAP environment Toolbar: The icon always opens the SAP Query manager. - Beas Standalone Toolbar: The icon opens the Beas Report. - Right-click menu in Beas forms (both environment): The icon opens the Beas Report.
		Open macro Layout
		Open window settings
		Open help.

© 2026 Boyum IT Solutions A/S

Icons in Beas windows

Icon	Boyum Style	Description
		Reference arrow. Opens additional information regarding the information currently displayed (e.g. item master for an item entry) or it opens a text editor.
		Opens a drop down list (window below the entry field) to select information. Selection is done using the cursor buttons or pressing the initial letter.
		Opens a selection window (separate window). This function is always available when the selection list is very large (e.g. for items).
		Expanded view of the entry. For texts, e.g., view of a report, for pictures view with an appropriate viewer program, e.g. Acrobat Reader for PDF files.
		An image can be stored here. If selected in this manner, this file is copied into a common folder and is available for viewing.
		The selected image can be removed.

See Form settings

Hot keys

Key	Meaning
Ctrl+Shift+ I	Opens the debug window.
Ctrl+N+B	Opens Beas script window settings.
Ctrl+Shift+P	Copy print screen to clipboard.
Ctrl+C	Copy
Ctrl+V	Insert content of the clipboard
Ctrl+N+U	Window for customized extensions
Ctrl+A+A	Click on text field opens translation menu. Matching of entries via Beas cloud. With an account in Beas portal, translations can be corrected here. Changes are distributed automatically with the next update.
Ctrl+double click	The selected object can be changed. Changes are stored in project folder. ***See***

© 2026 Boyum IT Solutions A/S

Key	Meaning
	Change Objects

See Form settings

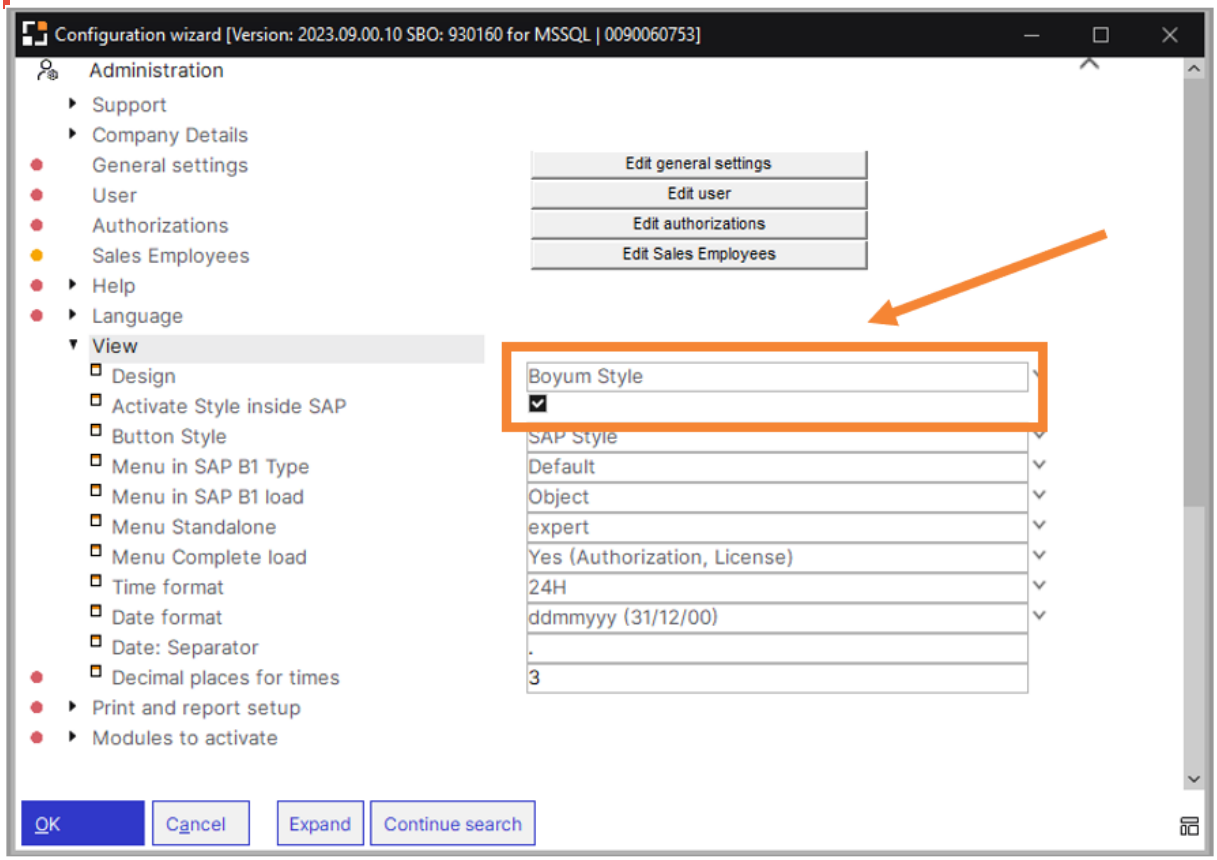
1.12.1.1 Boyum Style

This chapter contains important details of the streamlined, flat Boyum Style that was officially introduced with Beas Manufacturing 2023.09.
The conventional UI of the software was transformed into a more user-friendly working interface featuring brand new icons, button style and window structure.

The "Boyum Style" theme design - VIDEO introduction:

Activating "Boyum Style":
Select the "Boyum Style" design in the Configuration wizard:
You can also activate the style in SAP by enabling the check box underneath the "Design" setting field (***see*** below).

PATH: Configuration wizard > Administration > View > Design > "Boyum Style"



© 2026 Boyum IT Solutions A/S

Features:

▪ Improved look and feel for a more modern and professional experience.

▪ Simplified interface: unnecessary elements were removed; a simple and clean appearance for improved usability and user experience.

▪ Navigation optimization: easy and clear navigation within Beas.

- New icons in the the entirety of the software: menus, top and bottom bars, buttons, right-click menus, status markers, tool tips
- More spacious structure view and right-click menu
- Tool tips
- Enhanced browse windows
- Edit and tab windows with a scroll bar
- Renewed Terminal user interface
- Automatic window adjustment
- Universal font type for all buttons

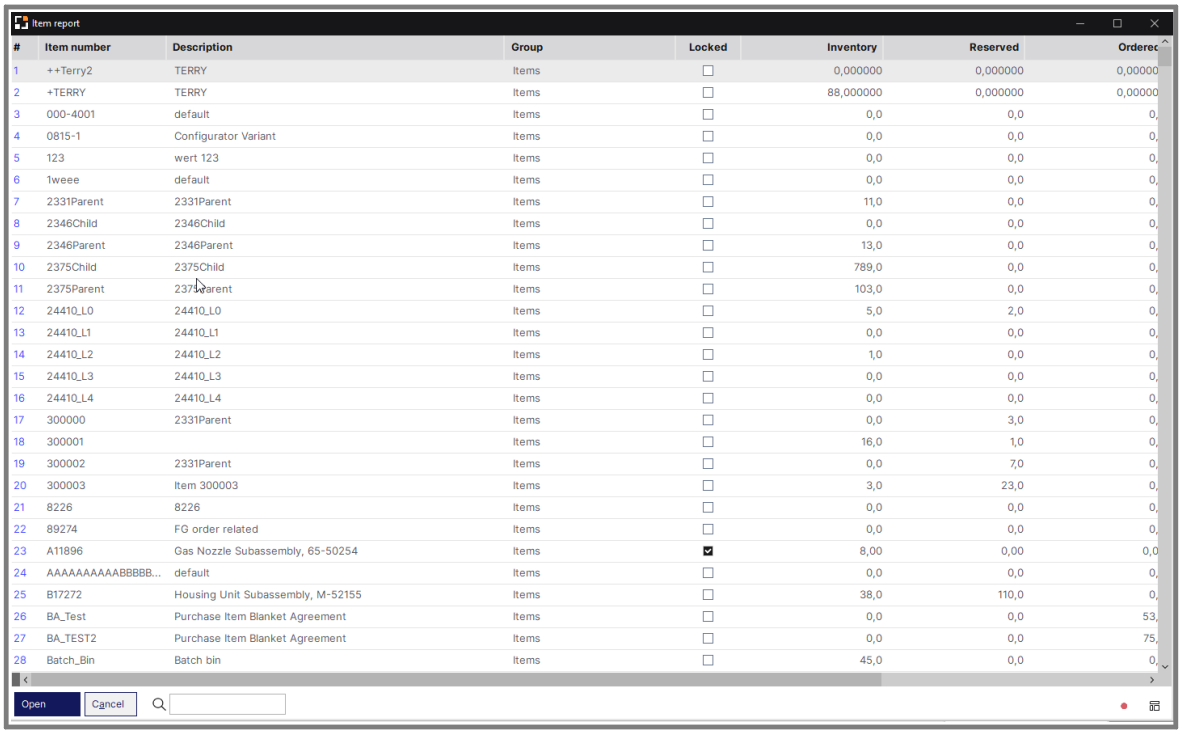
Select the type of Boyum Theme:

- Efficiency Mode (regular space):

  - setting is active by default.

  Browse windows show more lines, edit windows feature fields closer together. Reduced column width and tab height. *Beas 2025.04*

© 2026 Boyum IT Solutions A/S

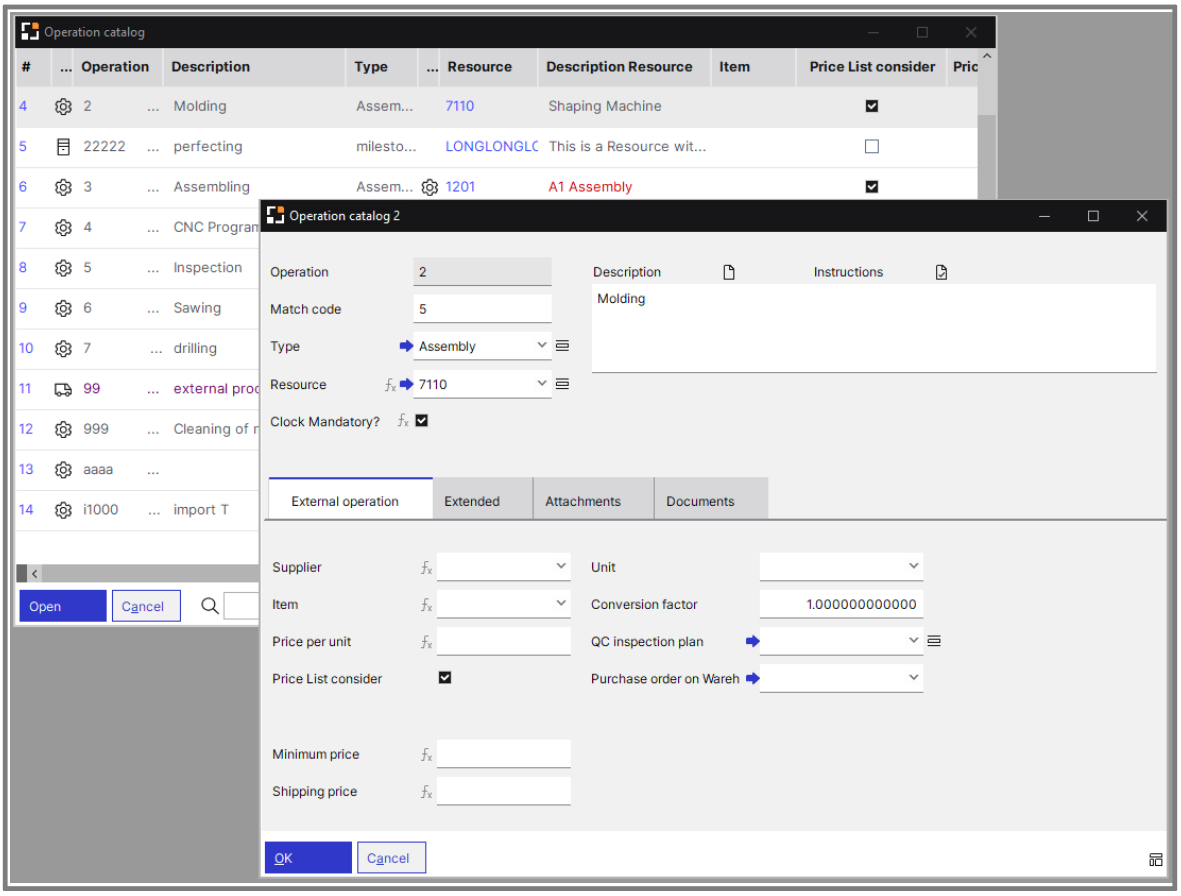


#	Item number	Description	Group	Locked	Inventory	Reserved	Ordered
1	++Terry2	TERRY	Items	☐	0,000000	0,000000	0,00000
2	+TERRY	TERRY	Items	☐	88,000000	0,000000	0,00000
3	000-4001	default	Items	☐	0,0	0,0	0,
4	0815-1	Configurator Variant	Items	☐	0,0	0,0	0,
5	123	wert 123	Items	☐	0,0	0,0	0,
6	1weee	default	Items	☐	0,0	0,0	0,
7	2331Parent	2331Parent	Items	☐	11,0	0,0	0,
8	2346Child	2346Child	Items	☐	0,0	0,0	0,
9	2346Parent	2346Parent	Items	☐	13,0	0,0	0,
10	2375Child	2375Child	Items	☐	789,0	0,0	0,
11	2375Parent	2375Parent	Items	☐	103,0	0,0	0,
12	24410_L0	24410_L0	Items	☐	5,0	2,0	0,
13	24410_L1	24410_L1	Items	☐	0,0	0,0	0,
14	24410_L2	24410_L2	Items	☐	1,0	0,0	0,
15	24410_L3	24410_L3	Items	☐	0,0	0,0	0,
16	24410_L4	24410_L4	Items	☐	0,0	0,0	0,
17	300000	2331Parent	Items	☐	0,0	3,0	0,
18	300001		Items	☐	16,0	1,0	0,
19	300002	2331Parent	Items	☐	0,0	7,0	0,
20	300003	Item 300003	Items	☐	3,0	23,0	0,
21	8226	8226	Items	☐	0,0	0,0	0,
22	89274	FG order related	Items	☐	0,0	0,0	0,
23	A11896	Gas Nozzle Subassembly, 65-50254	Items	☑	8,00	0,00	0,0
24	AAAAAAAAAABBBBB...	default	Items	☐	0,0	0,0	0,
25	B17272	Housing Unit Subassembly, M-52155	Items	☐	38,0	110,0	0,
26	BA_Test	Purchase Item Blanket Agreement	Items	☐	0,0	0,0	53,
27	BA_TEST2	Purchase Item Blanket Agreement	Items	☐	0,0	0,0	75,
28	Batch_Bin	Batch bin	Items	☐	45,0	0,0	0,

- Comfort Mode (wide space - original style):

  Original, wide-spaced Boyum Theme Style officially available as of version 2023.09.

© 2026 Boyum IT Solutions A/S

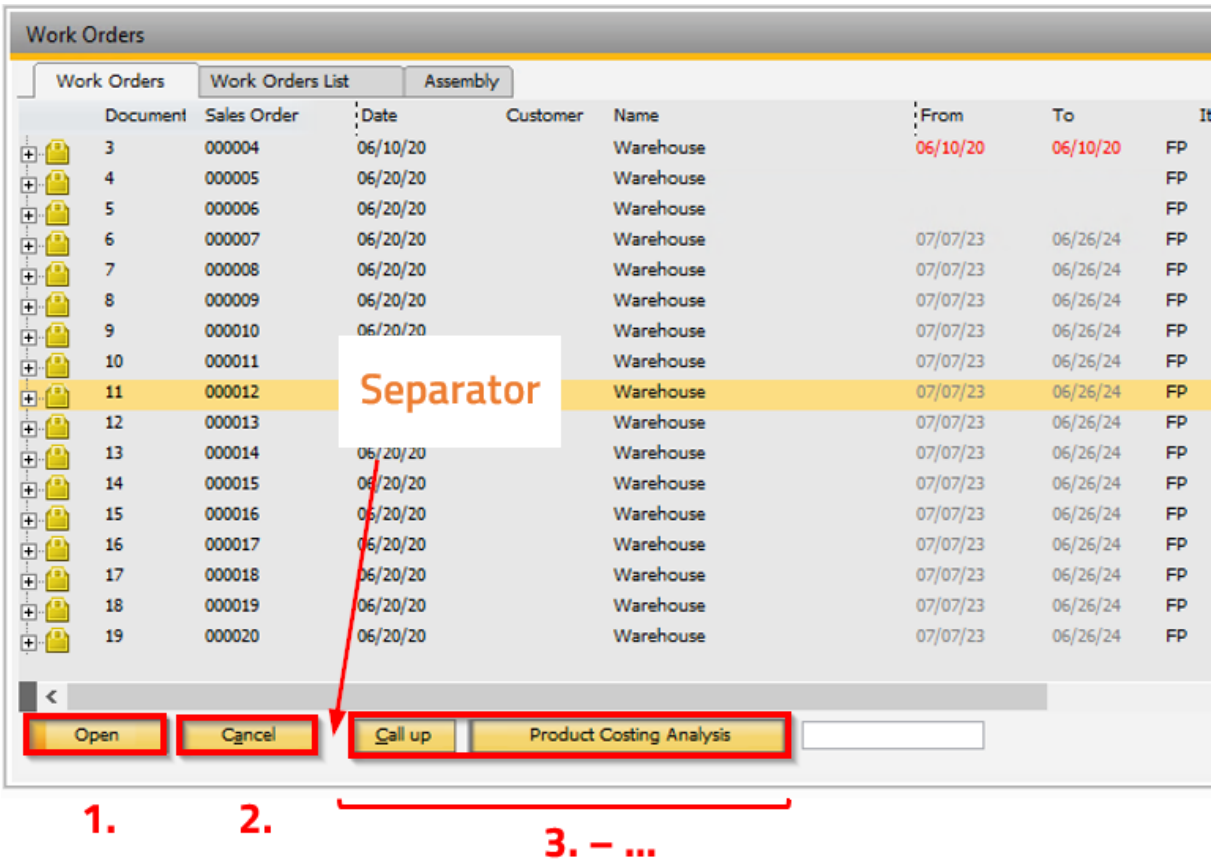


1.12.1.2 Buttons and functions layout

The layout of bottom buttons in Beas windows follows the SAP Business One style.
Beas versions before *2020.09* feature different button names and layout. If you wish to change the default SAP Style to the old Beas feel, modify the settings.

1st BUTTON: The first button in the bottom window section contains the main function of the screen (**Edit, OK/Update, Start** etc.)
2nd BUTTON: The second button is the **Cancel** button as the logic is to always have the possibility to cancel modifications and close the form.
SEPARATOR: After the first two buttons there is a break in the continuous line of all buttons.
3rd - ... BUTTON(s): From the third button (if any) onwards there are additional functions:

© 2026 Boyum IT Solutions A/S

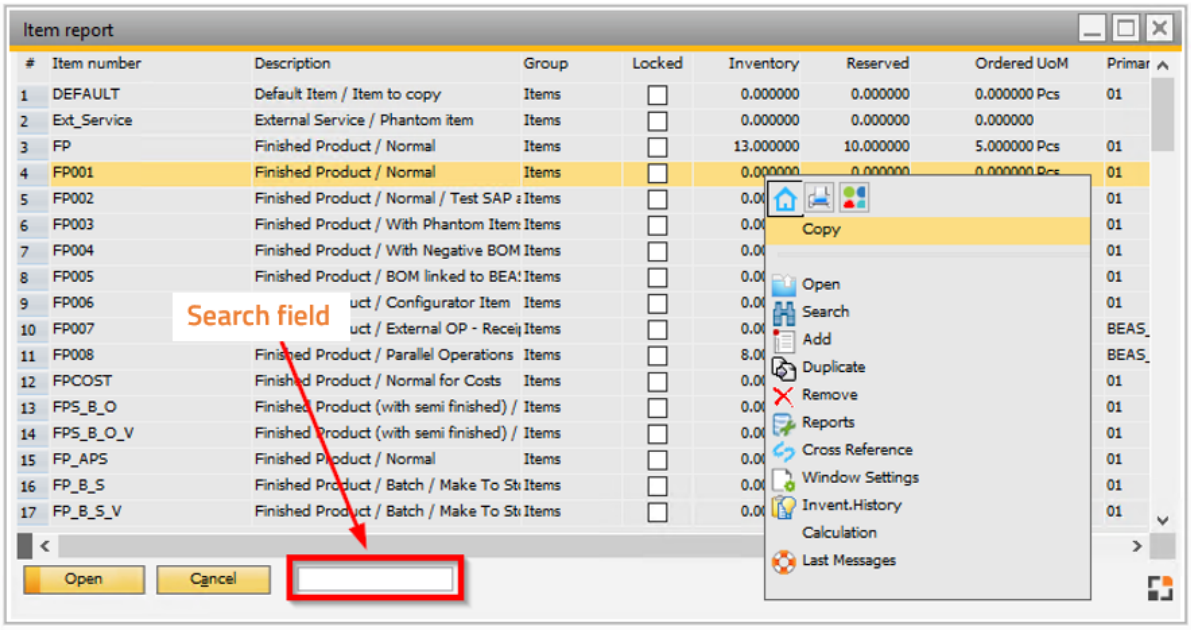


Browse forms listing a list of records do not exist in SAP. Here, the mentioned order is followed by a text box with quick search field function and custom buttons at the end.

The buttons **Search**, **Filter**, **New**, **Duplicate** and **Remove** can be found in the right-click (context) menu with the same icons as in the toolbar area (***see*** image below).

These functions can be found as individual buttons in Beas window with the Old System (Deprecated) view setting.

© 2026 Boyum IT Solutions A/S



- Difference between namings of general buttons

Old Beas style (Deprecated)	SAP Style
End	Cancel
Copy	Duplicate
Delete	Remove
Edit	Open
OK (in item search)	Choose
OK (in multiple search)	Choose
View	Open
Save	Update

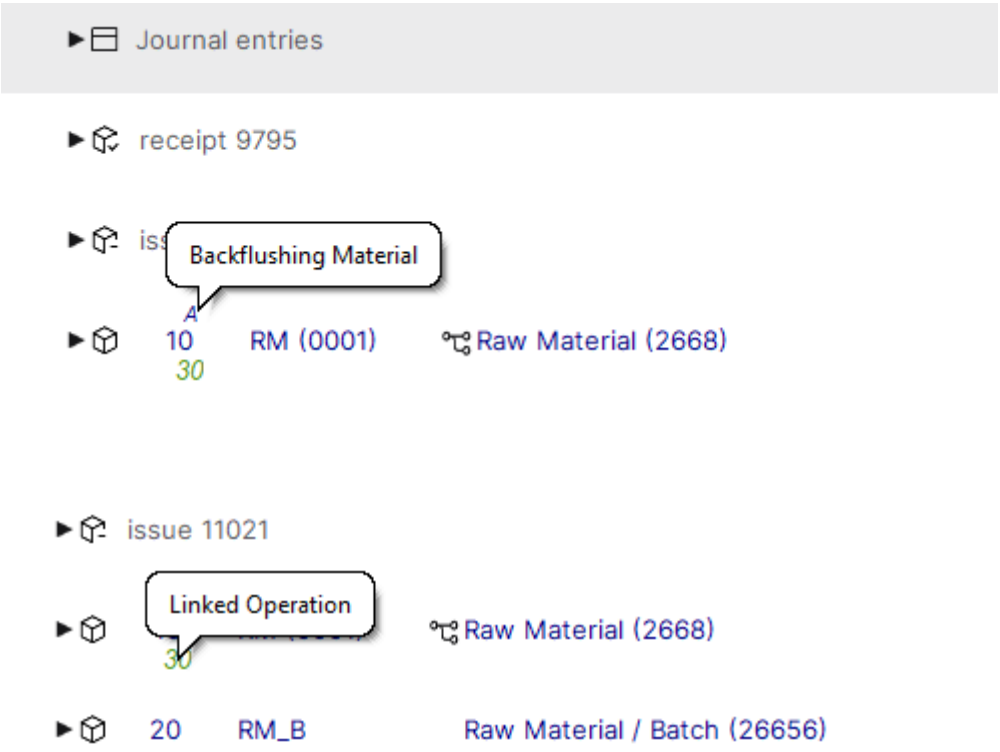
1.12.1.3 Tool Tip

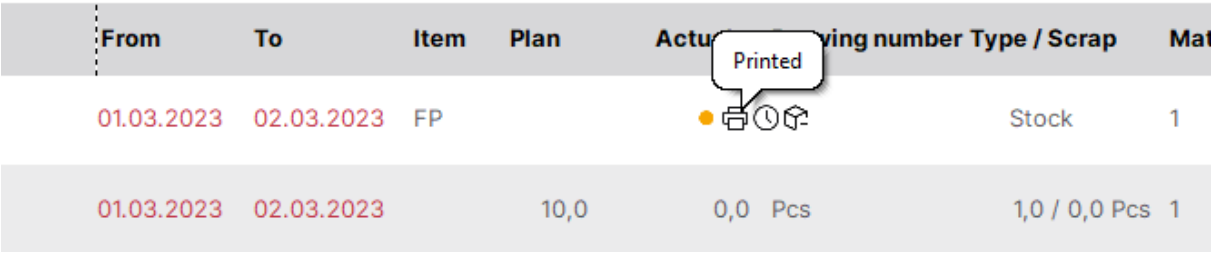
Work order tree view:

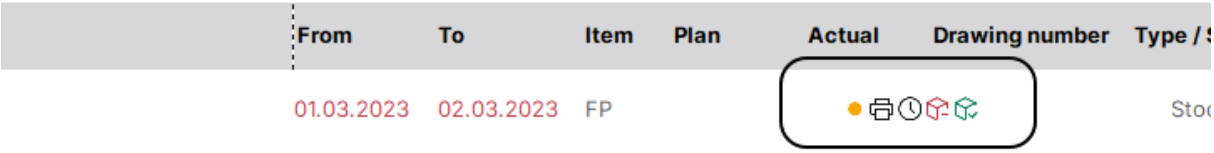
1. Status
2. WO was printed
3. Time receipt was created
4. Materials were issued

© 2026 Boyum IT Solutions A/S

5. Receipts were created

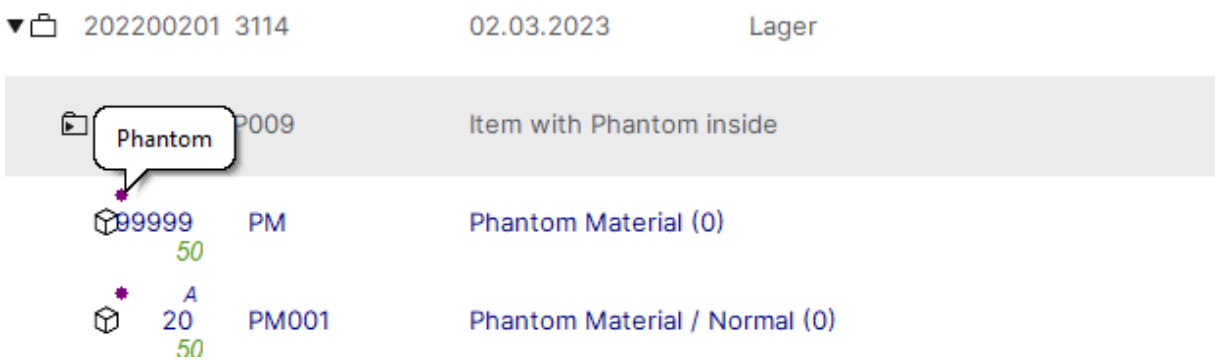




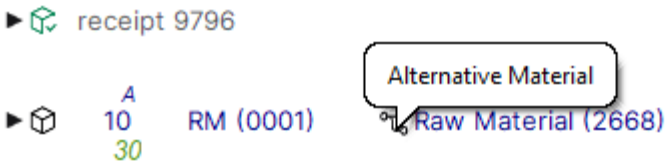


© 2026 Boyum IT Solutions A/S

6. Phantom assembly:



7. Alternative material



Item structure

© 2026 Boyum IT Solutions A/S

1.12.1.4 Main menu

All Beas system functions are controlled in the main menu.
Only the menu items with user authorizations are displayed. ***See*** User rights

If Beas is started without SAP Business One only Beas - functions are displayed. Use right-click to switch between menu types. ***See*** Configuration wizard > View > Menu
If Beas is started within SAP Business One as Add On, the Beas - menu is integrated into the SAP Business One – menu.

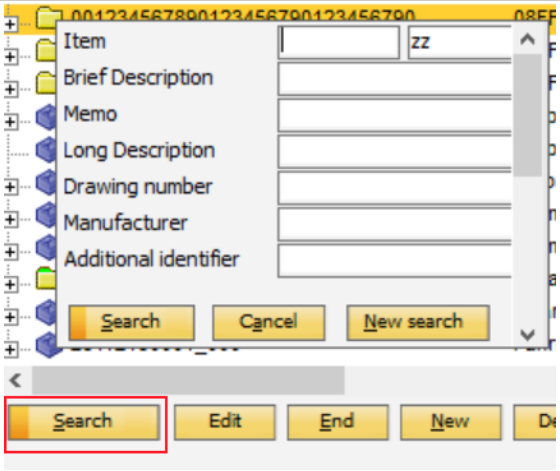
Note:
The documentation always refers to the menu-setting "default"
Customized menu items ans entries made by Beas – AddOns are available in the Add-Ons menu cluster.

1.12.1.5 Data selection

Finding data records
When a list of data records is available on the screen, for example, in item structure, the search function can be used to find a set of records.
In a window the search function can be available as:

- A Search window

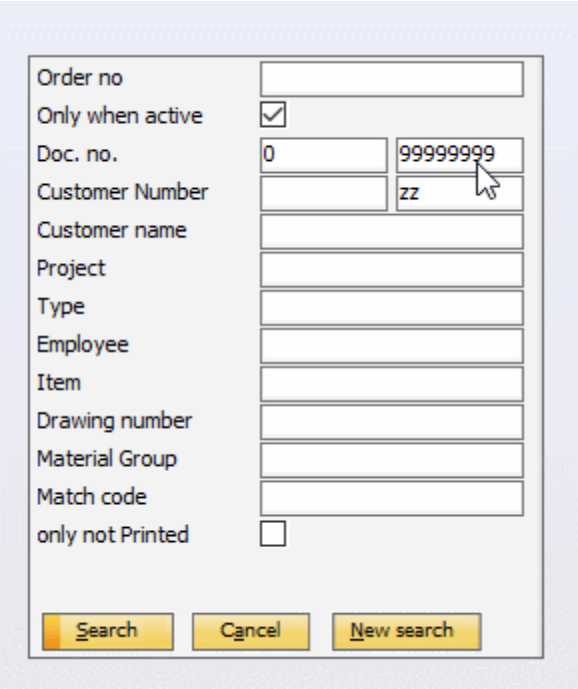
© 2026 Boyum IT Solutions A/S



Important:

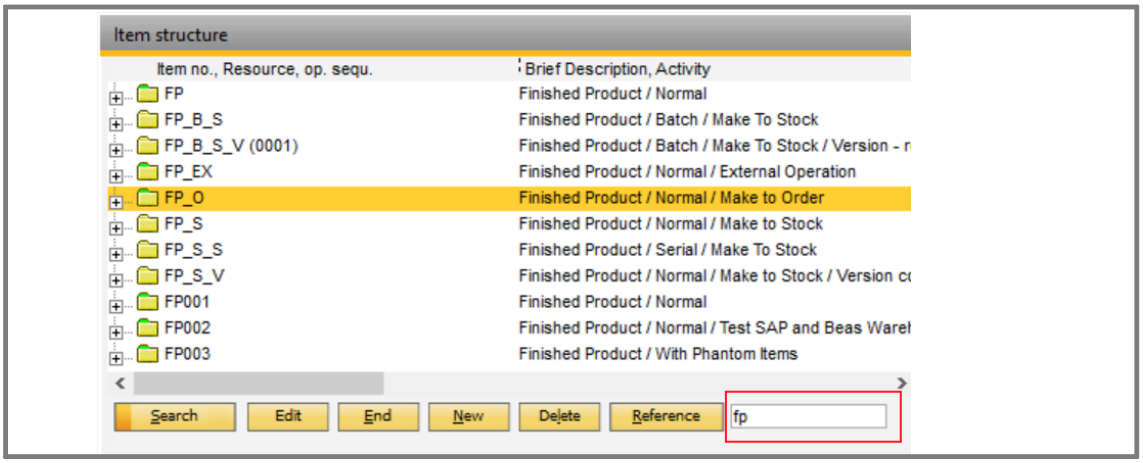
Fields that contain default and numeric values cannot be emptied. If a default value is defined, you cannot delete or overwrite it.

Enter your values inside the field before the default ones which, then, you can delete. ***See*** GIF image below:

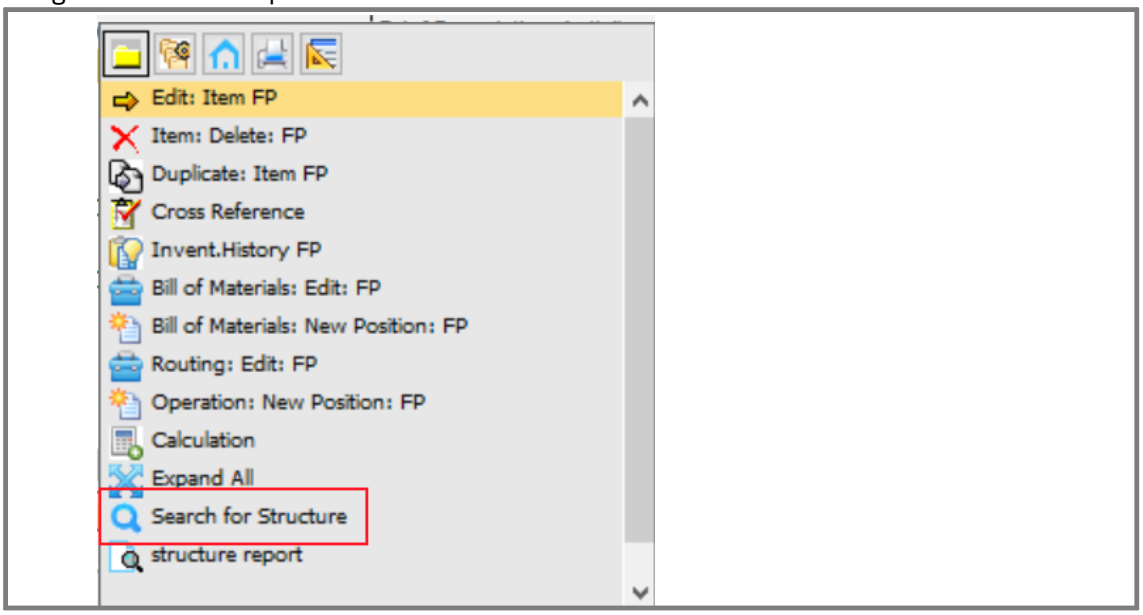


- A Search field

© 2026 Boyum IT Solutions A/S



- Right-mouse click option on a column header



To open a data record use one of the following options:

- Double-click on the item
- Click the **Edit** button, while the item is selected
- Click **Open data record** on the toolbar

Copy and paste

Various data sets, for exmaple, calculation schemas or templates can be transferred between instances of Beas or between data bases using copy and paste.

A text string is copied to the clipboard which can be sent via Email.

Video: copy paste function for data sets.

© 2026 Boyum IT Solutions A/S

Drop-down fields

The selected data set is marked by default. Colors, images and format are supported. Title is displayed in various drop-down fields.

Drop-down fields have a uniform view for all windows, for example standard warehouse view.

New functions and properties are available immediately in all windows, including all rules, icons and color controls.

A customized drop-down can be easily formatted. For further information ***see*** BeasScript documentation.

1.12.1.5.1 Multi selection

In some windows several rows can be selected at once. Some functions in these windows support multi-selection, multi-deletion.

The current row is always selected.

Note: Not all functions in a screen with multiple selection support this feature.

This function is not available in all windows. Only entries of the same type can be selected in structure view. Some entries cannot be selected.

Key	Meaning
Shift+click	Select all rows from currently selected row up to and including the clicked row.
Shift+cursor up or down	Select all rows from current row including each row that you step through, adding one row at a time.
Ctrl+click	Add clicked entry to selection (previous selection is kept).
Ctrl+A	Select all.
Click on entry or change row with cursor	Selection removed, only the current entry is selected.

1.12.1.6 Decimals: separator character behavior

Beas displays all numeric fields with the decimal separator defined in the Windows regional settings of the actual system.

Therefore, the SAP decimal separator is ignored.

The "Decimal Separator Key" defined on the NumPad of the computer keyboard also applies the Windows regional settings. For this logic, the system also reads the Keyboard definition of the user.

© 2026 Boyum IT Solutions A/S

Generally, Beas uses the decimal separator similar to MS Excel: Windows settings in combination with the Keyboard of the user.

IMPORTANT: When connecting to remote systems, Windows may read the regional settings of the local machine, and therefore, the information input of the remote machine is then displayed based on the local machine's windows settings.

Examples:

Configuration 1 (English keyboard):

- Keyboard Decimal Separator: "." (period)
- Windows Decimal Separator: "." (period)

- Result when the key is pressed in Beas: "." (period)
- Result when the key is pressed in the Notepad application: "." (period)
- Result when the key is pressed in Excel: "." (period)

Configuration 2 (Spanish Keyboard):

- Keyboard Decimal Separator: "." (period)
- Windows Decimal Separator: "," (comma)

- Result when the key is pressed in Beas: "," (comma)
- Result when the key is pressed in Notepad: "." (period)
- Result when the key is pressed in Excel: "," (comma)

Configuration 3 (German Keyboard):

- Keyboard Decimal Separator: "," (comma)
- Windows Decimal Separator: "," (comma)

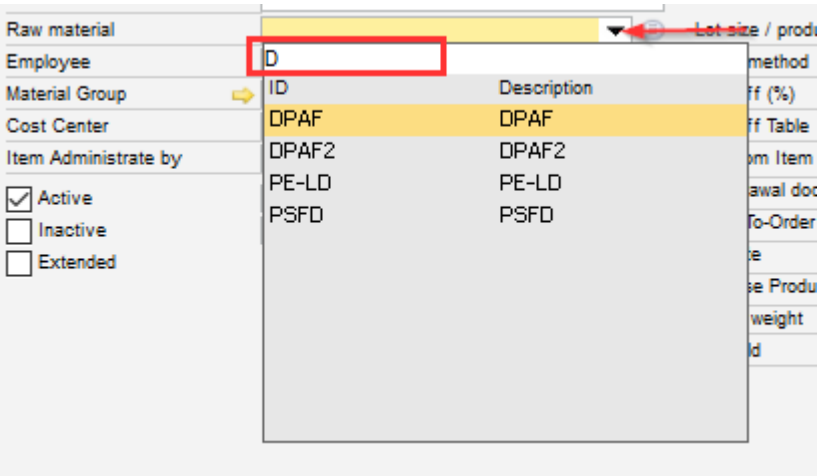
- Result when the key is pressed in Beas: "," (comma)
- Result when the key is pressed in Notepad: "," (comma)
- Result when the key is pressed in Excel: "," (comma)

© 2026 Boyum IT Solutions A/S

1.12.1.7 Drop-down

You can select data in a number of fields.

Click on the drop down icon to see the complete list.



Page Up / Down and scrolling:

A key press of page up / down scrolls one page.

For example, one pressing of the Page down button shows the list from the first row that is not displayed in the list presently.

Search inside the drop-down list:

Start typing the entry and the auto-complete function filters the information.

The Drop-down window searches this text in every column (Full text search) and displays the result.

UTF8 characters are fully supported *(beas 2020.02)*

1.12.1.8 Right-click menu

The **right-click menu** is available in almost all windows in Beas, providing general and context sensitive functions. These options are grouped into the following tabs in the context menu:

1. Context-sensitive basic functions
2. Context-sensitive extended functions
3. Context-sensitive expand functions
4. General functions
5. Export functions
6. Template Administration
7. B1 Usability Package*

© 2026 Boyum IT Solutions A/S

*available to B1UP users

Boyum Style:

Context-independent functions are generic and available in all windows.

Context sensitive functions

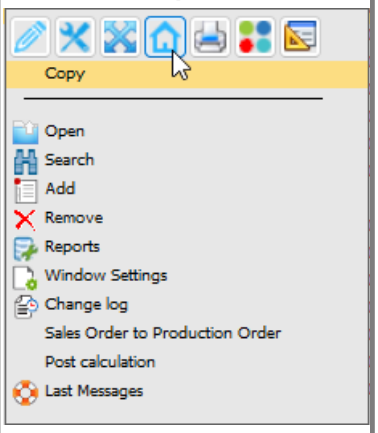
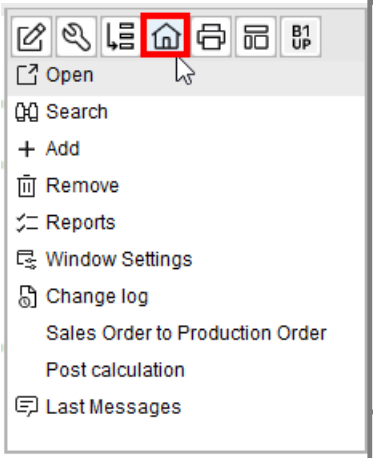
Description of the context sensitive functions is available at the relevant function:

Work order right-click options

Work order position right-click options

Order recommendation right-click options

General functions

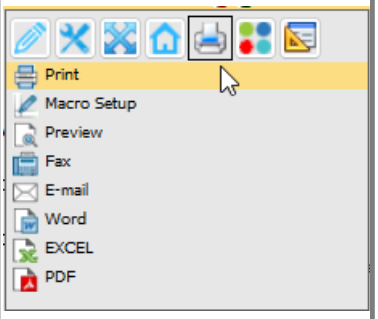
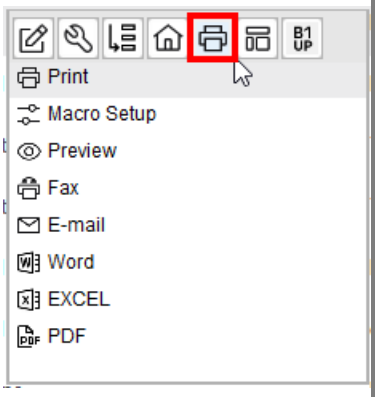
Functions - Right-click menu		Option	Description
Traditional style: 	**Boyum Style:** 	Copy	Copy the current content to the clipboard.
		Insert	Insert the clipboard content into the selected field. Only visible, if: • The clipboard has content • The selected field is writable • The field length is <100 characters
		Open/Edit	Opens the selected entry.
		Search	Opens the search screen.
		Reports	Opens a selection of reports.
		Window settings	Opens window settings.

© 2026 Boyum IT Solutions A/S

Functions - Right-click menu		Option	Description
		Last messages	Opens list of last error messages.
		Change log	Opens the list of latest changes in Beas.
		Some context-sensitive options are also available.	
		Add	Depending on the screen, it opens a create new item window for the selected item type. For example, a new QC order in the QC order window.
		Remove	Deletes the selected line.

Export menu

Output of current view or a stored Macro.

Functions - Right-click menu		Option	Description
Traditional styles: 	Boyum Style: 	Preview	Preview for macro export.
		Fax	Opens macro menu for email.
		Email	Opens macro menu for email export.
		Word	Opens macro menu for export to Word.
		Excel	Opens macro menu for export to Excel. In some windows an export is possible only to a limited extent.
		PDF	Opens macro menu for export as PDF.

© 2026 Boyum IT Solutions A/S

Functions - Right-click menu		Option	Description
			Note: to export Beas views, a printer driver needs to be installed. ***See***: Output
		Layout	Opens macro administration.

In SAP Business One windows the Beas-Macro-feature can also be used. For additional information ***see***, Deactivate macros, Macro definition, Output.

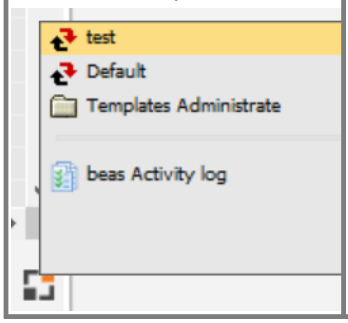
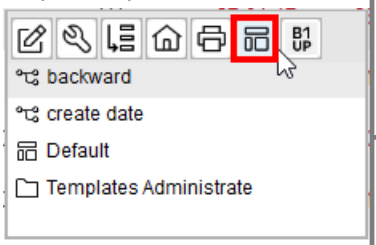
Limitation on printing Work Order Report:

Work order structure view reports are designed to display 6 sub levels, therefore the system does not print information over 6 sub levels.

Template menu

Traditional styles: Left-click the Beas icon at the right bottom corner to call the template system.

Boyum Style (Beta): Select the Template tab by clicking: / in the right-click menu or (when available) in the right bottom corner of the screen.

Function		Option	Description
Traditional styles: 	Boyum Style: 	Default	The current template is set as default for this list.
		Templates administrate	Opens the template administration menu.

B1UP menu

- Available only with a valid Beas usability package license.

See B1UP documentation.

Right-click in text fields

The Windows-default window for editing of texts opens by right-click on the text field (fields with more then 100 characters).

The text area can be copied or inserted or can be switched to other fonts.

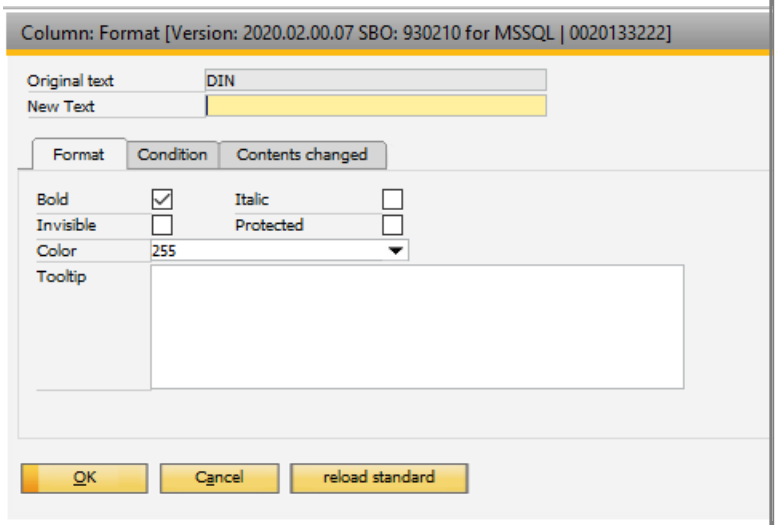
© 2026 Boyum IT Solutions A/S

This window opens in the language of the Windows-language settings.

1.12.1.9 Ctrl + DoubleClick

The Ctrl + Double-Click on an object has different functions.

Note: Ctrl+Double Click is not working on Buttons or Tab elements. Only Text columns and Text fields.

Function	B1UP Installed	Description
Edit Window Ctrl + Double-Click on a column	No	Open field customizing window Beas Usability extension not installed: Via Ctrl + Double-Click on a Beas object you can change its desig or behavior of columns.  *Window: system_form_column* The system saves every change in the project folder as BeasScri If you open this form for a field again, the system will read the s this BeasScript. Note: Not all columns can be changed. Exceptions: objects, generate tabs, data-dependent fields. **Field description**

© 2026 Boyum IT Solutions A/S

Function	B1UP Installed	Description

Field	Description
Original text	Original text.
New text	New text, which is to be displayed instead

Format tab

Function	Description
bold / italic / invisible / protected	Set check mark to select a format.
Color	Select font color. ***See*** Color selection.
Tooltip	The entered text will be displayed when mo cursor over the respective object.

Condition tab

With the background condition you can define the background

Function	Description
Background: normal / error / empty	Set background color according to selected Click on drop down field to select color.
Input mandatory	Set check mark to make this field mandato
Error message	Error message, in case the entry is not C Display the text in an error case. ***Example***: Field is defined as mandatory and if you click on update, the system v the error message.

Content changed tab

Input window for scripts. As long nothing was entered, the exan displayed.

Example:

© 2026 Boyum IT Solutions A/S

Function	B1UP Installed	Description

		JBScript
		`#jbs`
		`// Check length of field`
		`if (items.frgnname.value.len  < 10) {`
		`  messagebox("error","Insert minimal 10 letters");`
		`  items.frgnname.status="error";`
		`  }`
		`else`
		`  items.frgnname.status="ok";`
		`dw_1.items.redraw();`
		
		BeasScript
		`// Check length of field`
		`if <dw_1.item.frgnname.value,len>  n< 10 then`
		`  messagebox=error$$Insert minimal 10 letters`
		`  dw_1.item.frgnname.status=error`
		`else`
		`  dw_1.item.frgnname.status=ok`
		`end if`
		`dw_1.item.frgnname.redraw`

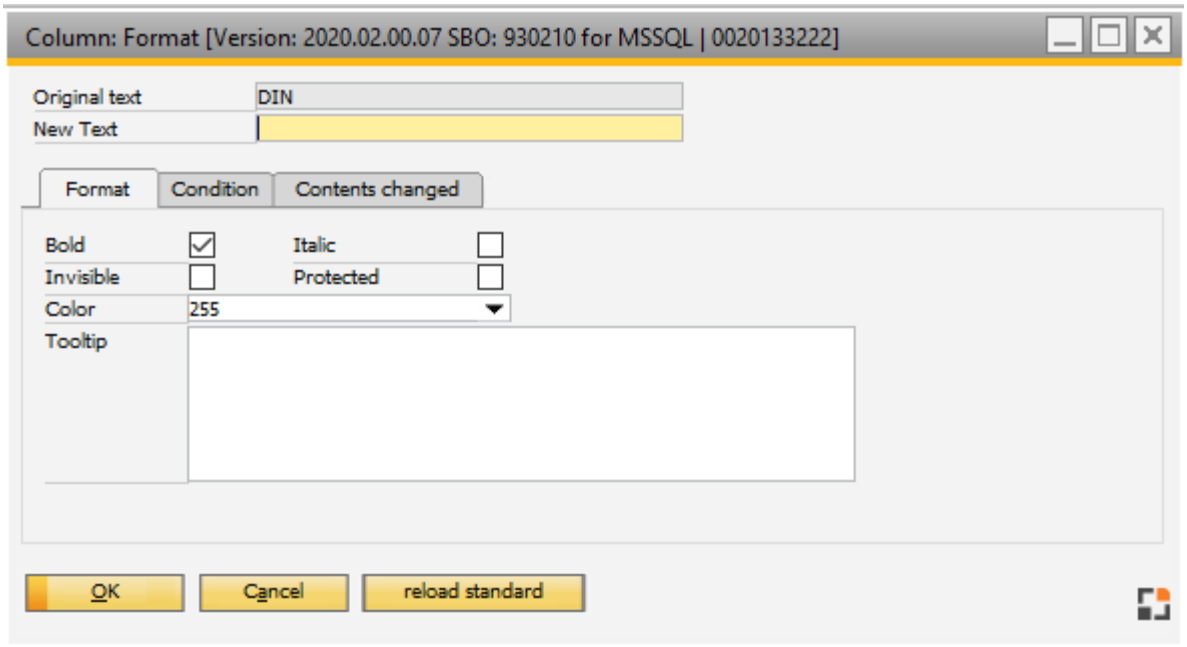
Edit Window Ctrl-DClick on UDF Field	all variants	Opens the UDF extended setting window
Edit Window Ctrl-DClick on a column	yes	Opens Beas Usability Edit window
Browse Window Ctrl-DClick	all variants	Opens the window settings
Edit Window Script window is open	all variants	Jumps to the column on which you clicked

1.12.1.9.1 Change objects

Beas Usability extension not installed:

Via Ctrl + Double-Click on a Beas object you can change its designation, color or behavior of columns.

© 2026 Boyum IT Solutions A/S



Window: system_form_column

The system saves every change in the project folder as BeasScript.
If you open this form for a field again, the system will read the settings from this BeasScript.

> Note:
>
> Not all columns can be changed. Exceptions: objects, generated at runtime, tabs, data-dependent fields.

Field description

Field	Description
Original text	Original text.
New text	New text, which is to be displayed instead of the old one.

Format tab

Function	Description
bold / italic / invisible / protected	Set check mark to select a format.
Color	Select font color. ***See*** Color selection.
Tooltip	The entered text will be displayed when moving the cursor over the respective object.

© 2026 Boyum IT Solutions A/S

Condition tab

With the background condition you can define the background related to

Function	Description
Background: normal / error / empty	Set background color according to selected condition. Click on drop down field to select color.
Input mandatory	Set check mark to make this field mandatory.
Error message	Error message, in case the entry is not OK Display the text in an error case. ***Example***: Field is defined as mandatory but not filled, and if you click on update, the system will display the error message.

Content changed tab

Input window for scripts. As long nothing was entered, the example code is displayed.

Example:

JBScript

```
#jbs
// Check length of field
if (items.frgnname.value.len  < 10) {
  messagebox("error","Insert minimal 10 letters");
  items.frgnname.status="error";
  }
else
  items.frgnname.status="ok";
dw_1.items.redraw();
```

BeasScript

```
// Check length of field
if <dw_1.item.frgnname.value,len>  n< 10 then
  messagebox=error$$Insert minimal 10 letters
  dw_1.item.frgnname.status=error
else
  dw_1.item.frgnname.status=ok
end if
dw_1.item.frgnname.redraw
```

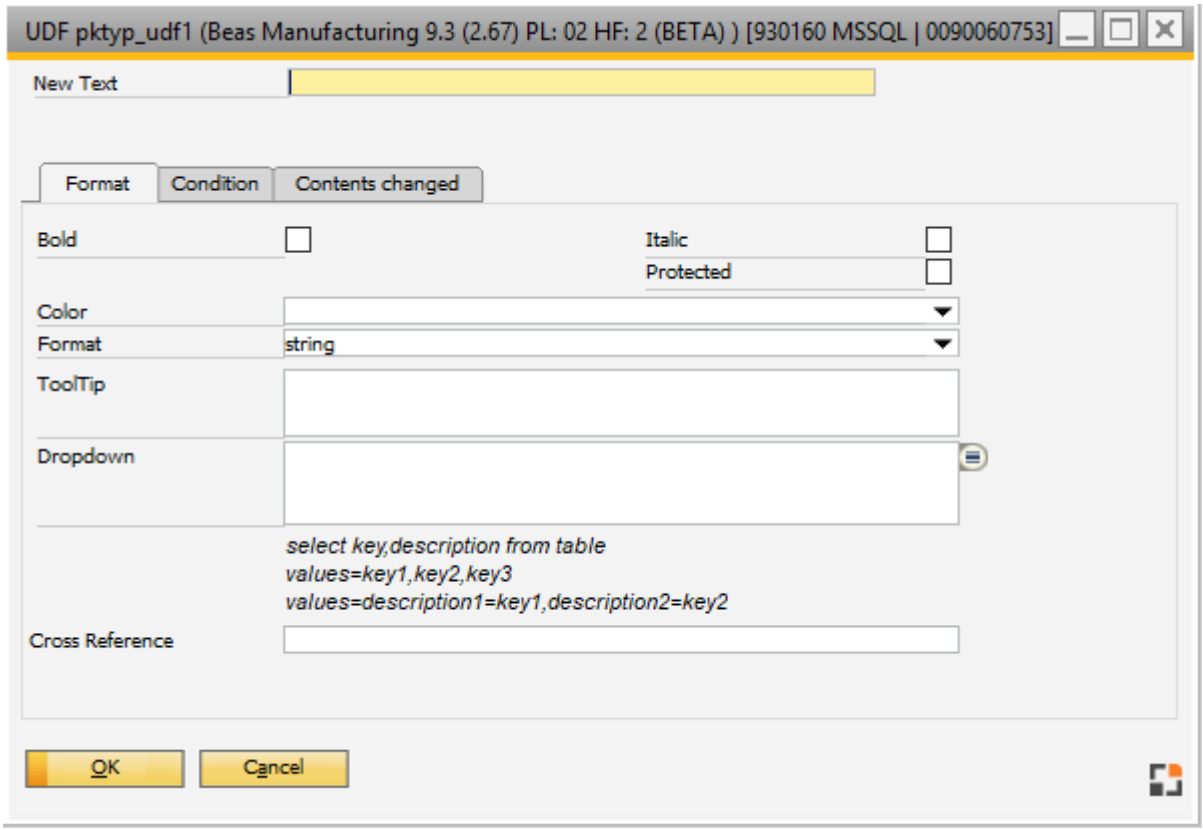
1.12.1.9.2 UDF - Extended settings

Up to 4 UDF's can be stored in the Configuration wizard in certain areas. Use the cogwheel icon to set up additional properties.

If you select a UDF using Ctrl + double-click in a window, this window opens.

© 2026 Boyum IT Solutions A/S

UDF–field information is saved to the database.



Window: system_option_udf

Available settings:

Function	Description
bold / italic / invisible / protected	Set check mark to select format.
Color	Select font color ***See*** Color selection.
Format	Defines the format of the input. A UDF Field is always an alphanumeric character string. If a format is stored, the input will be formatted respectively. **Possible formats:** - Numeric (0 decimal places) - Decimal 1–6 decimal places - Date

© 2026 Boyum IT Solutions A/S

	Faulty numeric inputs are turned to 0, faulty date inputs in 1.1.1900, and readable values are formatted respectively. The system uses the current windows regional settings for date and numbers. NOTE: The field itself always stays alphanumeric. In the background the system automatically generates a small script which is executed if you change the value.
Quick help	Text entered here will be displayed if you move the cursor over the respective object.

Drop-down	A Drop-down can be stored.
	Variants are possible:
	`select key,description from table where rule`
	`values=key1,key2,key3`
	`values=display1=key1,display2=key2`
	`activateascalendar`
	
	Example
	Shows all items:
	`select "ItemCode","Description" from "OITM" order by "ItemCode"`
	
	Color selection
	`values=red,blue,green`
	
	Color selection, only the first letter will be saved
	`value=red=r,blue=b,green=g`
	
	Calendar
	`activateascalendar`

Reference	Create a yellow arrow left of the entry field Insert a yellow arrow left to the field. Click on it to execute the script defined here.

© 2026 Boyum IT Solutions A/S

	Example Open item window (udf1) `openwindow=artikel_edit.psr<tab>s_parm1=<udf1>`

Tab Condition

Function	Description
Background: normal / Error / empty	The background be colored depending on chosen condition. To open the color selection, click on the drop-down button .
Input mandatory	Set check mark, to make the field mandatory. After the window will be re-opened, the Only when the window will be reopened, the setting will be activated.
Error message	Error message if the input is not okay The status of the field can be set to "error" `dw_1.item.udf1.status=error` If the field has this status and you try to save the changes, this error message is returned.

Tab content changed

Input window for scripts. This is executed after changing the field.

Use this to check the input or for direct change.

1.12.1.10 Lists

Lists can be freely set up (***see*** Window settings). Various views can be managed in parallel and you can add own columns. (***see*** Templates)

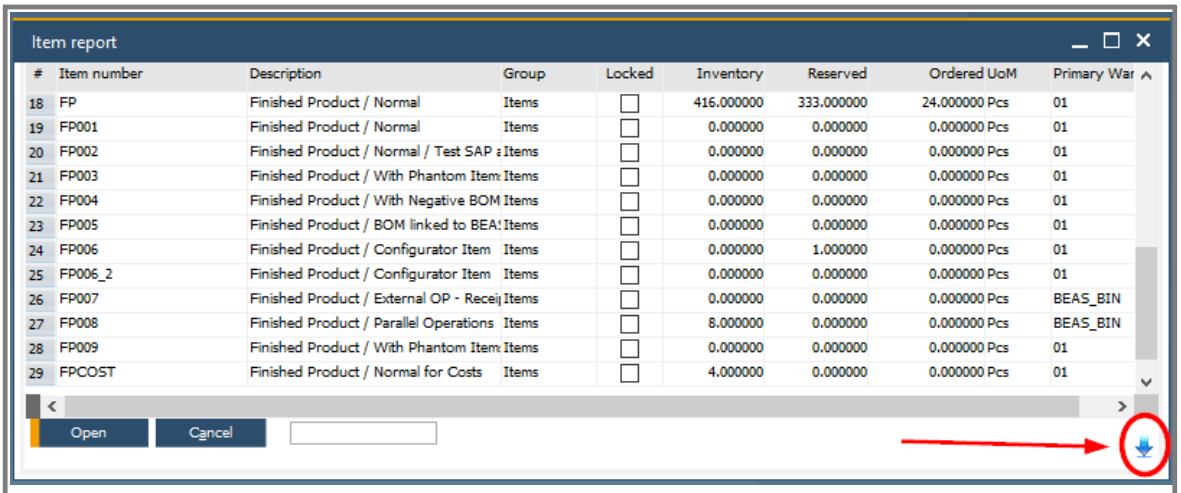
Lists can be filtered and sorted via right-click on column title.

Display completely

Only the number of entries set in the Configuration wizard are displayed.

A short blinking symbol appears right below if not all entries have been loaded. When clicking on it, the function "Display completely" is provided in the pop-up menu. If enabled, all entries are reloaded.

© 2026 Boyum IT Solutions A/S



Boyum Style:

Performance note: showing only the first "x" rows provides for faster operation in case of exceptionally large databases.

Note: This feature is supported by the window templates. Thus, the quantity of the rows to be displayed can also be defined in the template. The setting in the template here has a higher priority.

1.12.1.11 Structure view

Beas supports special structure views.

On the left, the structure is displayed and on the right the property of the current line is shown. In each line of the structure another object with various properties can be located; that is why the right side of the display may be very different.
Thus, there are no fixed columns, and no universal column header.

Structure windows are: Item structure, Precalculation, Work order structure, Post-calculation

Column width

There are two vertical bars in the column header row which can be shifted to change the width of the columns. Column width is stored by station.

© 2026 Boyum IT Solutions A/S

Export

An export of tree views in a column-oriented format such as Excel is not possible because there are no fixed columns. At an export of the current view the error report "(lockedfunc) Function is locked" will be issued. For most views a Crystal Report is available. This can be exported or adapted to own-made needs. Furthermore, objects providing the structure in an exportable view are available.

Window settings

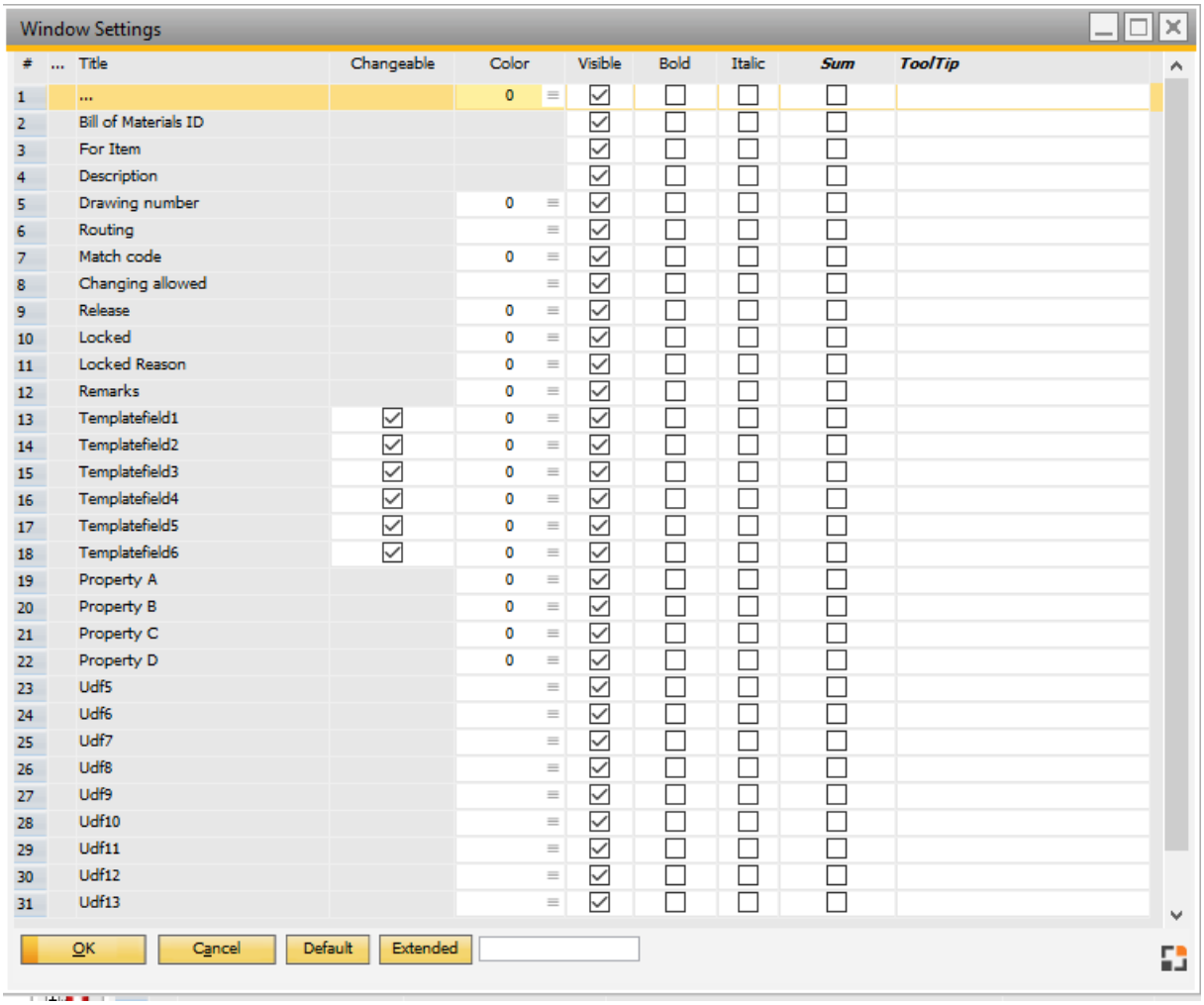
Window settings are partially available. However, this is not where columns are set up; The settings of other properties are accessible here.

1.12.1.12 Window settings

In many lists the width and visibility of columns and the order of display can be set up. This is made in window settings which are available via **right-click > Window settings**.
Click on the a list if there are multiple in a window.

Window settings are not possible in windows with a structure view.
The authorization Template is required for window settings.

© 2026 Boyum IT Solutions A/S



Window system_col_browse.psr

Assignment Window settings

- SAP / Beas normal:

  Windows settings are always applied to the currently logged user only.

- Terminal mode

  Terminal: The Terminal – Program will be started with an SAP user. The window settings are assigned to this user.

  Change window settings:
  Login with this Terminal user in SAP Business One and change window settings.
  It is recommended to work with the templates.

- Templates

© 2026 Boyum IT Solutions A/S

When changing window settings and creating a template afterwards, the window settings are transferred to this template.
Changes in the window settings will be saved in the template if it is active.

Note:
It is recommended to assign the window settings to a template and to assign the terminal user to this template if window settings are required for a terminal user.

For windows settings the authorization Template is required.
If changing window settings and creating a template afterwards, the window settings are transferred to this template.

- Change column width

1. Move mouse to the edge of a column in header row. The mouse icon changes. Click and hold the mouse. Adapt width (move while keeping the button pressed). If the desired width has been set up, release the button.
2. Right-click and select window settings.
3. A list of all columns is displayed. Click only on **Update** and close the window again.
4. Now the new column width is saved.

- Change column order

1. Right-click and select window settings
2. A list of all columns is displayed.
3. Select the column to be moved by left click and keep the button pressed. The mouse icon changes.
4. Move column to desired location and release the button.
5. Click on **Update**.

- Add or hide columns

1. Right-click and select window settings
2. Select column
3. Turn on or off the check box "visible"
4. Click on **Update.**

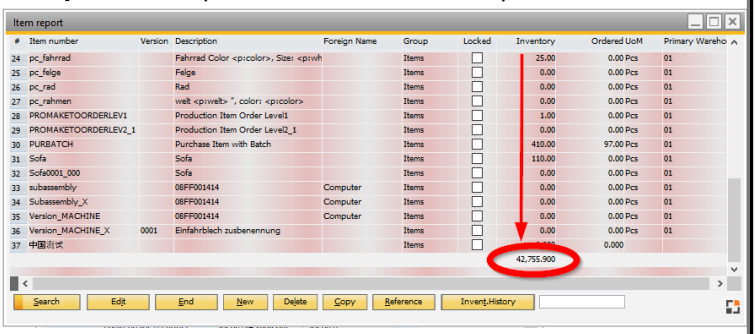
- Note on program update:

If a window was adapted, changes in the standard are not transferred to the own customization. New fields or adaptations are only displayed after selecting "reset standard".

© 2026 Boyum IT Solutions A/S

Window settings

The following columns are displayed here:

Heading	Field name
Visible	Determines if field is visible.
Changeable	Determines if field is changeable. Not every field is changeable. if you make fields changeable, which not changeable in standard, then the system don't save the changes.
Color	Select field font color.
Bold	Field font is displayed bold.
Italic	Field font is displayed italic.
Icon	Some specialties are displayed here. Icon "NEW": column has been added after program update. Icon "Lock": column was changed using extended settings, standard settings have been overwritten.
Sum	Activating this setting for a field provides a summary below the listed values of that field in the main window. Details It is possible to summarize fields from type Number/Decimal and String, for example UDF or template fields, but not Date fields. ***Example:*** Item report – sum for "Inventory"  *Window artikel_browse.psr* Note: The system converts the Text/String to a number. Comma and Point are allowed as decimal delimiter. If it is not a number or the field is null, the system ignores the line.

© 2026 Boyum IT Solutions A/S

Heading	Field name
	LIMITATION: Formulas are not supported.
Tooltip	Here you can enter a tooltip to appear above a field in the main window.

Functions

Heading	Field name
Change order	Click the title, keep mouse button pressed and move.
Change width	Close the window, set up the field width in the list, re-open window settings and click **Update**.
Reset defaults	Right click – Button "Standard" window is reset to default values. This may be necessary after update, or, if the customized settings do not fit the original settings.
Further properties	Right-click – details: customized details can be set up (***see*** below).
Save form in template	If a template is created, current window settings are saved. ***See*** Templates.
Distribute window settings	Window settings cannot be distributed but templates can.

Extended button: Access extended window settings for the current window.

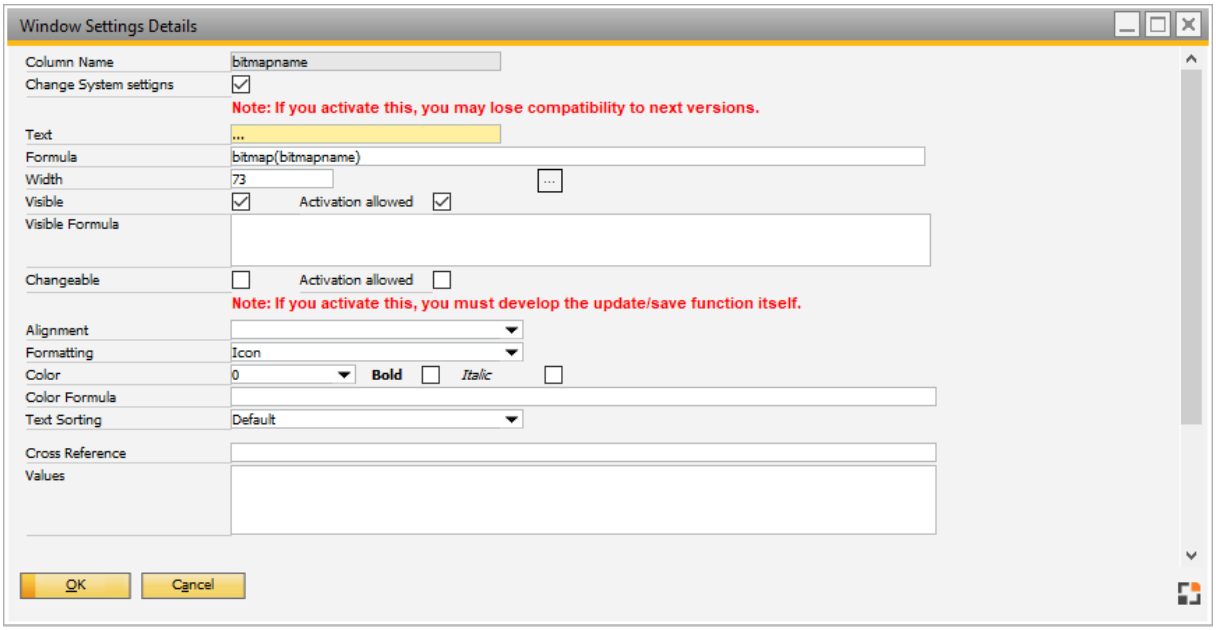
back to Window control

1.12.1.12.1 Window settings - Details

You can make further window settings in this editing window.

PATH: Window settings > "**Extended**" button

© 2026 Boyum IT Solutions A/S



Window system_col_detail.psr

If "Change System settings" is enabled, detailed settings can be overwritten.

Column Name	Name of column (usually table name and table field)
Change System settings	Overwrite Standard field definitions. Enable this field to overwrite all default settings (e.g. description, color etc.). All changes, extensions and corrections will be available after program update. There may be some restrictions in upward compatibility. The respective fields are marked with a "LOCK" – Icon. If this field is disabled, (default) no fields in this screen can be changed.
Text	Word ID for Display Define the word ID for Display. Note: The system tries to translate the text to the current language. For an overview of all Word-ID's ***see*** Beas-Translation.
Formula	Formulas can be stored (DataWindow-Syntax) for calculations e.g. `oitm_itemcode + oitm_itemname` or `oitm_itemcode+case (left(oitm_itemname,1) when 'A' then ' A-Group' else '')`.

© 2026 Boyum IT Solutions A/S

	See Datawindow-Syntax Insert formula fields in pool report
Width	Direct entry of width. The result is displayed on the right.
Visible	Field visible? Can only be activated if "activation allowed" was enabled.
Visible Formula	Enter a formula to be displayed.
Changeable	The field is changeable, and can only be activated if "activation allowed" was enabled. **Attention:** When active, the system does not save the changes, and it can impact other functions severely if you change the value of this field. Warning messages are prompted before saving changes for this parameter *Beas2020.03*. The Beas Standard solution does not check the changes and does not update the database.
Activation allowed	Determines whether the field "changeable" may be activated. Note: This does not mean the change is saved – only entries without functions are allowed.
Alignment	Determines the alignment.
Formatting	Determines the format. For further information ***see*** BeasScript-Documentation.
Color, Bold, Italic	Color, Bold, Italic

Color Formula	With DataWindow-Syntax the color can be returned directly:
	Example: Red if stock is negative, otherwise green:
	`if (oitm_onhand<0,rgb(255,0,0),rgb(0,128,0))`
	To hide a text field, use an invisible font color.
	Example: invisible, in case of stock=0
	`if (oitm_onhand=0,unvisible,0)`
	See datawindow-syntax

Text Sorting	Determines whether this column may be searched or sorted. affects the behavior after right-click on the column header: **Standard**: column firmly linked to data base. Filter and sorting via SQL statements possible.

© 2026 Boyum IT Solutions A/S

	DW-Sort: column is not firmly linked to data base. Sorting and filtering is allowed using the Data window-Sort/Filter-Function. Only displayed values are considered. **Only Text**: no sorting or filtering
Cross Reference	An orange arrow is displayed. By clicking on it, the entered script is executed. ***Example***: open item window `openchild=artikel_edit.psr<tab>s_parm1=<oitm_itemcode>`

Values	A selection list can be stored which opens with right-click
	Configuration:
	`select valuecolumn,displaycolumn from table ..`
	All values need to be of type "Char"
	or
	`value=display,value=display ...`

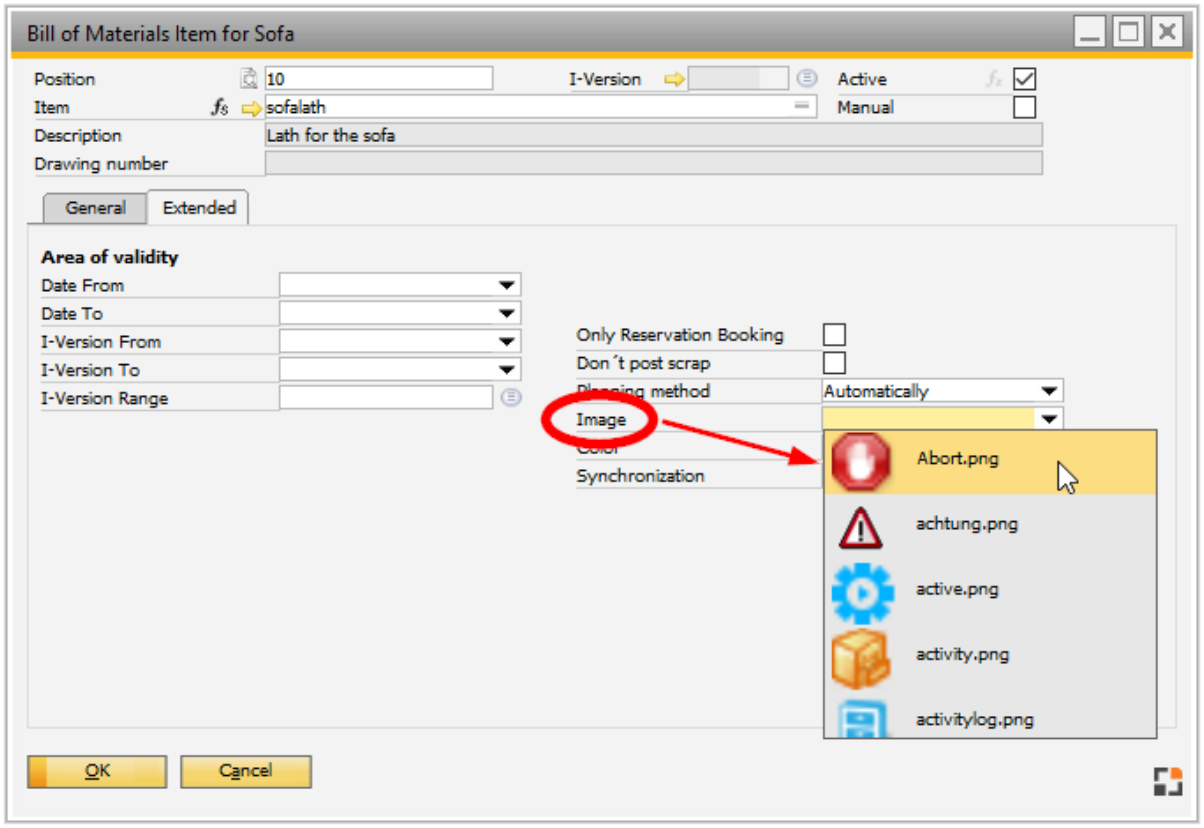
Insert formula field in pool report

back to Windows
back to Window settings

© 2026 Boyum IT Solutions A/S

1.12.1.13 Icon selection

In many areas an icon selection is available, for example in Bill of Materials:



Window artikel_stlpos_edit.psr

Only the name is saved in the database.

All available images are saved in :

C:\program files(x86)\beas software\beas\bmp

If you need additional images, you can save them in this folder.

Note: Save additional images on all work stations.

Supported formats: `jpg, bmp, png`

1.12.1.14 Color selection

A color can be assigned to various data sets, and entries will be displayed in that color in all lists.
If a drop-down field "Color" is available, clicking the window 3 color bars open with red, green and blue.

© 2026 Boyum IT Solutions A/S

Click and move the bars to change the font color of the selected entry. Click **OK** to save the color.

Color defaults

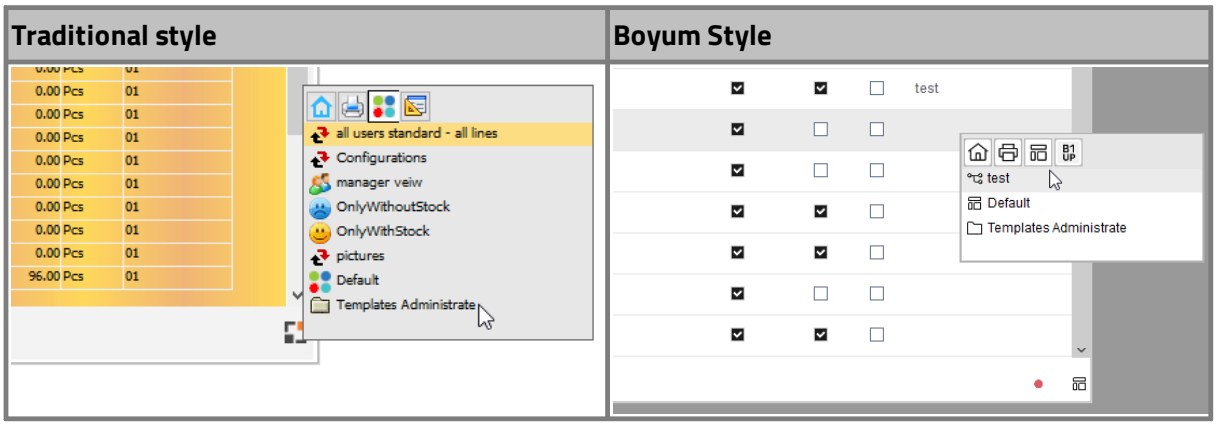
The 4 circles below save slots for colors:

Set the color:
1. Select color with the help of the 3 sliding bars
2. Double right-click in the circle to save a color to

Use left-click to select the saved color.

1.12.1.15 Templates

Many windows of type "lists" support templates. With these, various settings can be summarized and stored. The templates are accessible via the Beas icon at the bottom right corner of the window:



Affected settings:

- Sorting
- Filtering
- Columns settings (***see*** Window settings)
- Number of max. rows (not in HANA)

© 2026 Boyum IT Solutions A/S

- Title-row for print-out
- Design (background color, font size)
- Definition of up to 6 additional fields from any table

Various lists and evaluations can be created in a window by using templates. It is very simple to switch between templates and the program always opens the last used template.
To manage templates, the authorization "template" is required.

See Authorizations

Authorization control

With templates, you can also create authorizations. First, create a standard template which is available for every employee who can open the respective window.
1. Define visible fields via right-click – Window settings
2. Create New Template and set up filters and sorting if needed
3. Save template and switch to Standard – ***see*** Template administration

Now, you can create additional templates and enter the users with permission to execute the template in Template – Authorization.
Clicking on the template selection list will only display the templates that the user is authorized to manage.

> Note: Users with administration rights can access all templates.

Terminal mode

A authorization control per employee can be defined in the terminal mode. For further information ***see*** Template administration

Training unit Templates (Right-click > "Save link as...")

How to create Beas Template button
New fields in production times report
AddOn login to work order with additional fields
Improvement Report with templates
Pool list sort by aps definition with template function
MRP with templates

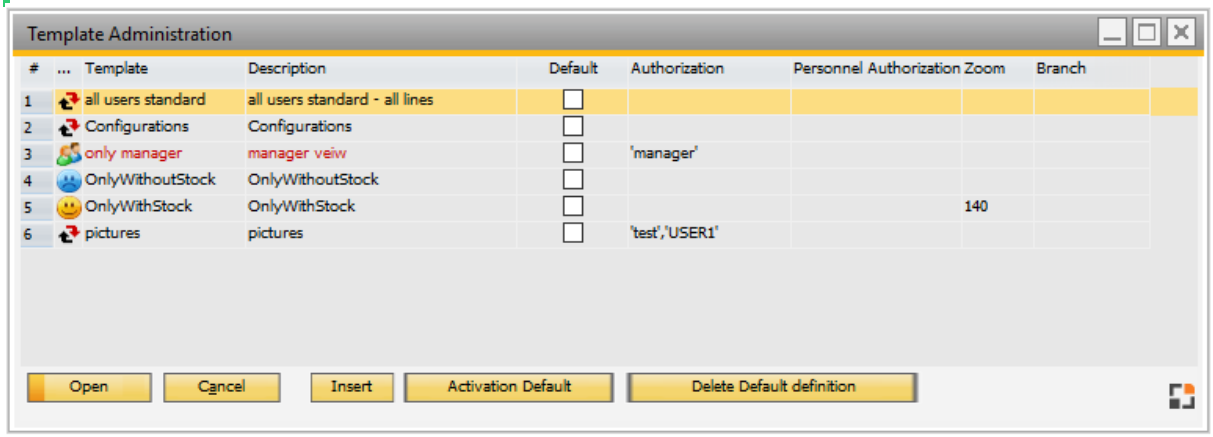
© 2026 Boyum IT Solutions A/S

1.12.1.15.1 Template Administration

In Template administration you can create new templates, edit or delete existing ones. It is accessible via all windows which have the Beas-icon in the right bottom corner.

See Templates

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate"



Button/right-click function	Description
Open	Open an existing template. ***See*** Edit template.
Add	Create new template. ***See*** Edit template. **IMPORTANT**: Existing window settings are copied to the template. ***See*** Window settings Existing filters and settings can be used.
Remove	Delete the selected template.
Copy	Copy template settings to the clipboard. Then it can be copied to the same data base or sent via Email.
Activation Default Delete Default definition	The selected template is set as default. The "Standard" template (without filter) cannot be selected anymore. With "Delete Default" it is possible to delete the setting. In this case the Standard Template is available again.

© 2026 Boyum IT Solutions A/S

Button/right-click function	Description
	Example: Item list You can use the template to define which items the user can see but this is only possible if the user does not have access to the Beas default template. You can set a new template with Filter and can define this as Default. The user can only choose the templates that he/she is authorized to manage. Otherwise, the default template is available.
Insert	Insert template settings from clipboard.

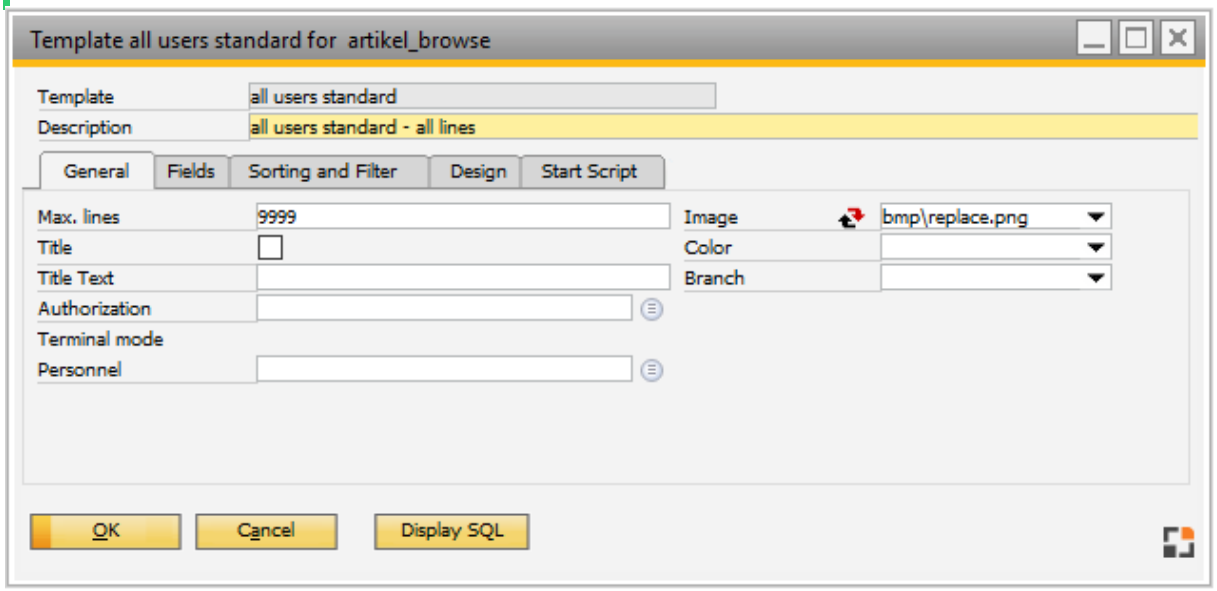
1.12.1.15.1.1 Edit templates

In this screen templates can be created and managed. It is accessible on the right bottom corner of the screen via the Beas **icon > Template administration.**

See Templates, Template administration

Many settings are available and distributed under several tabs. Depending on the window type, only the selected tabs are available.

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry.



© 2026 Boyum IT Solutions A/S

Tabs:

General

Fields

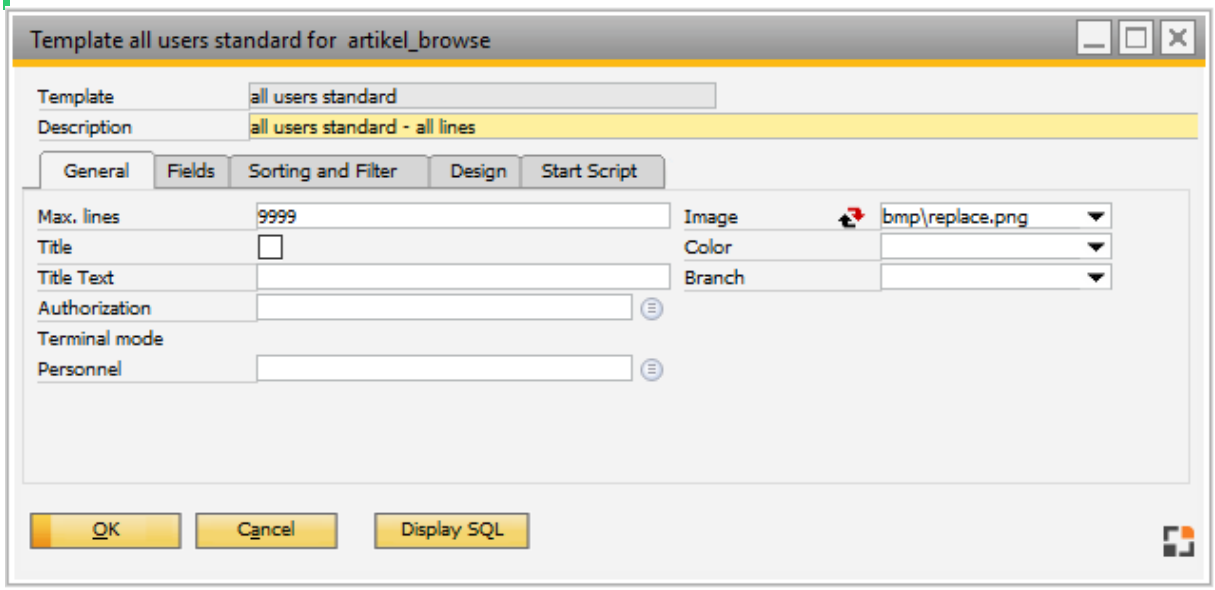
Sorting and Filter

Design

Start Script

In this tab you can perform the basic template settings.

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry.



Window system_template_edit_page1.psr

Field Descriptions

Field	Descriptions
Max. lines	The number of rows to be displayed. If empty, settings from Configuration wizard – System are applied. By default, only the first 200 entries are displayed. If you want to have all rows displayed, enter a large number e.g. 1.000.000

© 2026 Boyum IT Solutions A/S

Field	Descriptions
	Note: This function is not available in the HANA version.
Title	If active, you can insert a title.
Text	Title (only available if field above "Title" was activated. In contrast to window header the title is printed.
Authorization	If only dedicated users shall have access to some template, you can select them here. ***See*** Templates - Authorizations
Terminal mode - Personnel	Controls the authorizations on Personnel level. Note: if you log in with superuser to the terminal, the system does not check this filter. Details: **Beas standard:** This filter is considered additionally if the current user is connected with a Personnel-Entry. "Authorization" and "Employee" will be checked if the terminal window is opened. ***A Special example***: User "A" logged on in SAP Business One. This user is connected to personnel entry "A". Personnel "B" opens the Terminal window (not Beas in terminal mode) In this case: Authorization according to user "A" + condition from "Terminal Mode - Personnel" for Personal "B" The user has access generally if no entry is deposited. **Beas Terminal mode** In terminal mode, only the field "Personnel" is checked instead of authorization.

© 2026 Boyum IT Solutions A/S

Field	Descriptions
	The employee has access to all templates if the field is empty in all template definitions. The employee has only access to the templates in which he is deposited in this list, if at least one field in a template is filled. If an employee opens a window for the first time, not the default template is used but the first one to which the employee has access. The standard template is used if no template was found. **Standard Template** The employee has always access to the Standard Template. This has to be deposited. ***See*** Templates – Authorizations

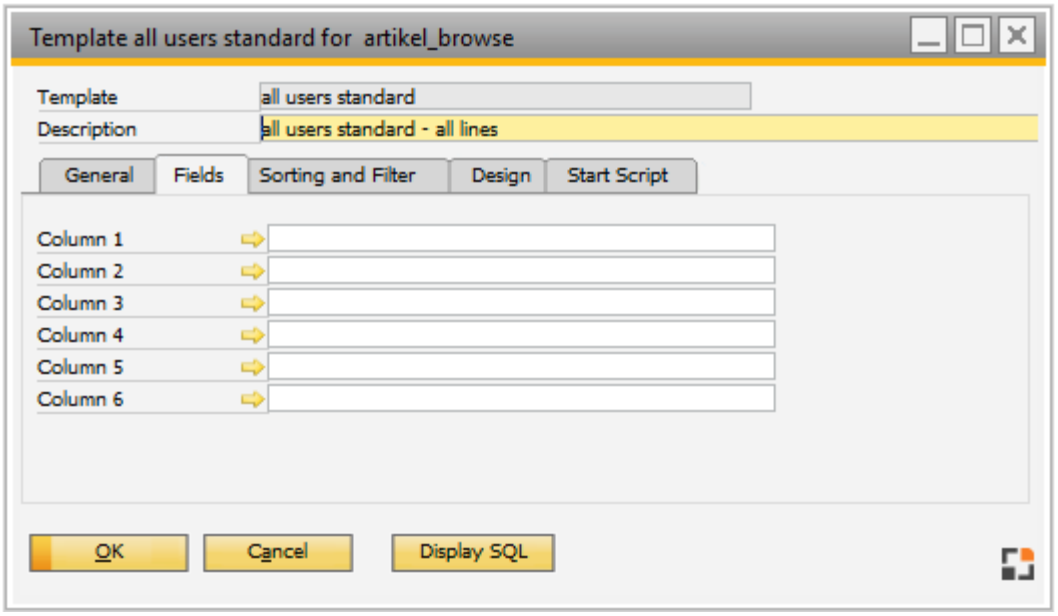
In this tab you can define up to 6 additional fields. On SQL-level you can define which information is displayed.

Enter title in the "Column" lines.
Below the yellow arrow an additional definition is stored. ***See*** Definition of fields

Note: The defined fields are displayed right in the list, and by using window settings they can be moved to the desired position. ***See*** Window setting.

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry > "Fields" tab.

© 2026 Boyum IT Solutions A/S



Window system_template_edit_page1.psr

An additional field for a template is defined here. This is done on SQL level. Return must always be of type varchar, max. Length: 50 characters.

All other data types must be converted to varchar, ***Example***: via `cast(<sql-feldname> as varchar(50))`

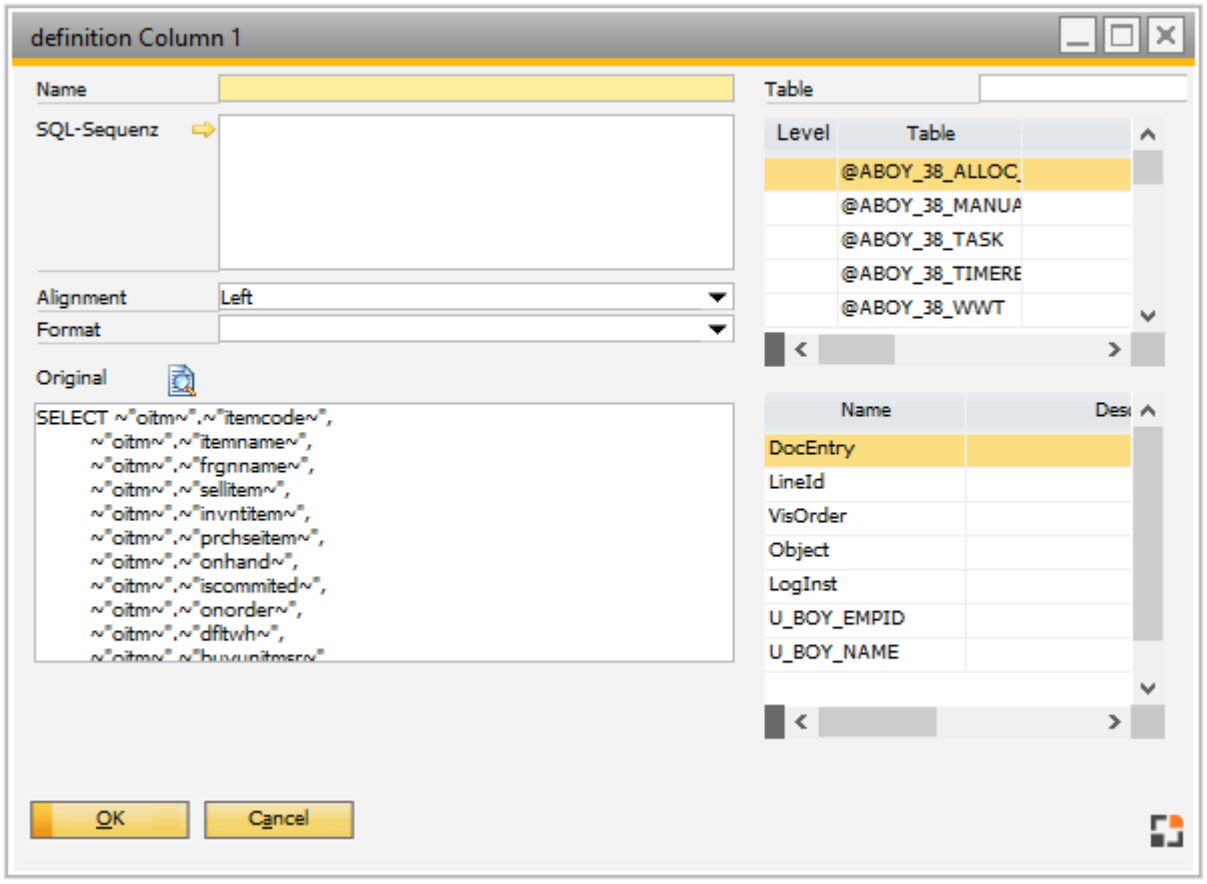
This SQL fragment is inserted into the existing SQL statement which is executed in this list by Beas.

If this value is located in another table, use a sub-select statement:

```
(select max(1) t1."MyDescription" from "U_MyTable" t1 where
t1."ItemCode"="OITM"."ItemCode")
```

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry > "Fields" tab > Double-click yellow arrow.

© 2026 Boyum IT Solutions A/S



Window system_ template_ sql.psr

Field descriptions

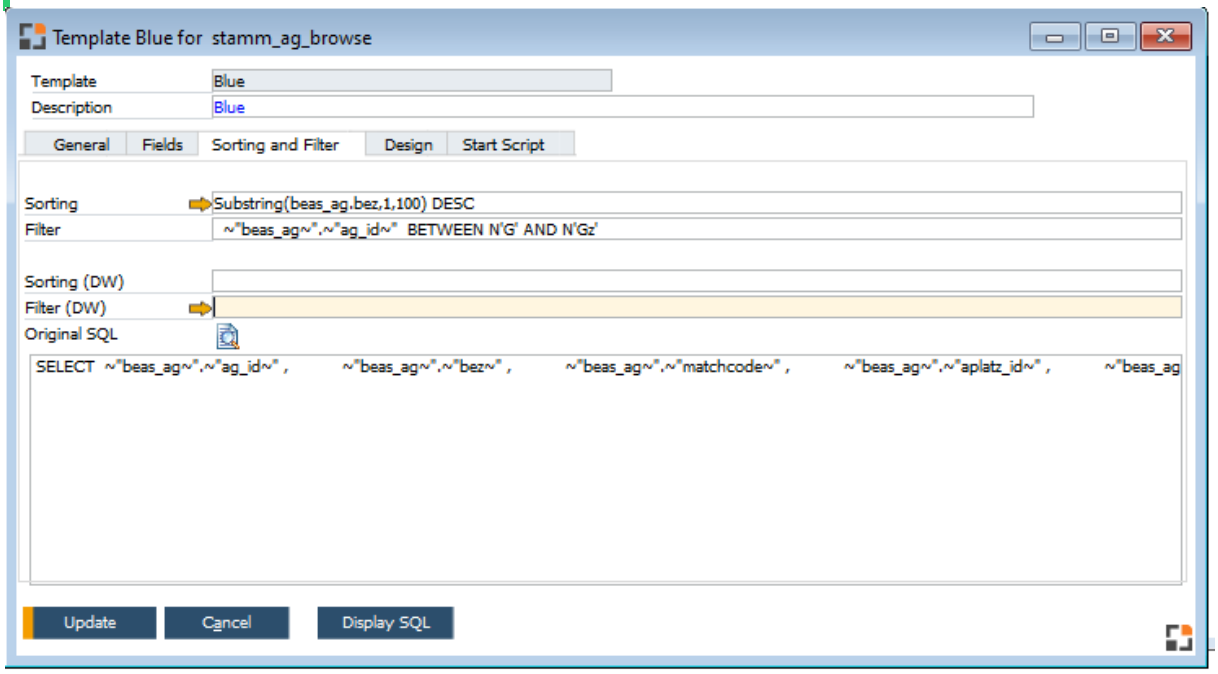
Field	Descriptions
SQL-Sequence	SQL-fragment or Sub-Select-Statement ***Example***: Item list: display image (the second of the stored images) "OITM"."U_picture2"
Alignment	Aligment (left, right, centered)
Format	Output format Formatting as Bitmap is possible, as well as the display of images stored in SAP B1 (Format: SAP B1 Bitmap)

© 2026 Boyum IT Solutions A/S

A new sorting/filter is available on SQL-level and on window level (DW). Click the orange arrow to transfer the current sorting/filter from the window. That means the list can be sorted clicking on the field header and then this setting can be read and transferred out as SQL- or DW-syntax.

NOTE: If you switch from a template with sorting to a template without sorting, the filter and sorting are not removed.

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry > "Sorting and filter" tab.



Window system_template_edit_page1.psr

Field Descriptions

Field	Descriptions
Sorting	Sorting on SQL-level **Yellow arrow**: Clicking on it automatically copies the default sorting and filter definition of the window. Enter/edit the SQL-fragment following the "ORDER"-statement of the SQL-command ***Example:*** Item list, sort item descending OITM.ItemCode desc

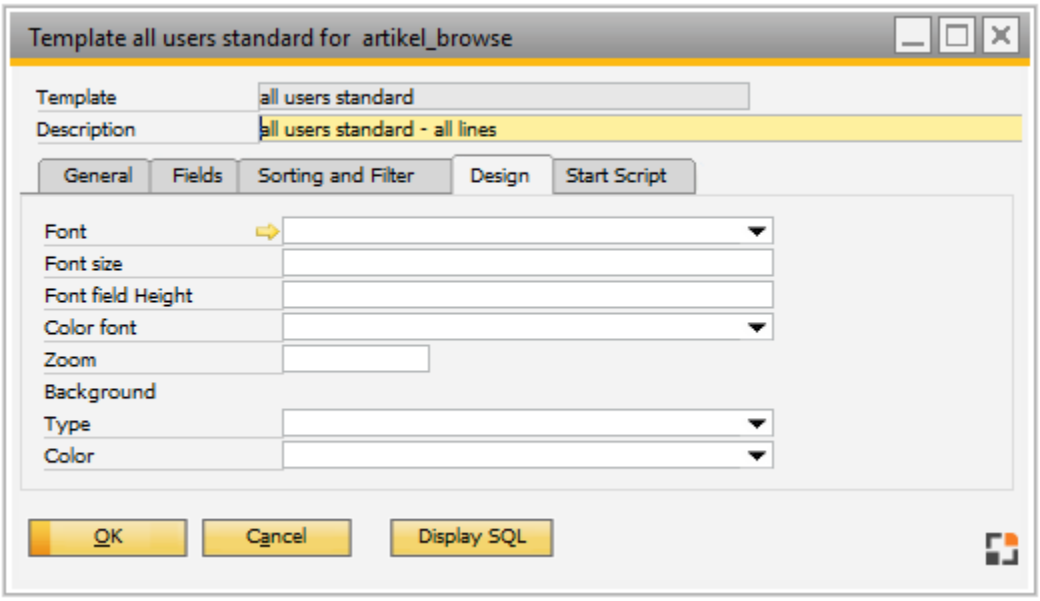
© 2026 Boyum IT Solutions A/S

Filter	Filter on SQL-level **Yellow arrow** (right of the Sorting field): Clicking on it automatically copies the default filter definition of the window. Enter/Edit the SQL-fragment following "WHERE" ***Example***: item list, only items beginning with A substring(OITM.ItemCode,1,1)='A'
Sorting (DW)	You can sort within the display after the list was loaded from SQL-server Use this option if a sorting on SQL-level is not possible, e.g. if lists are filled using an object or if a SQL-statement was used with "union all" Sorting is entered in DW-Syntax. ***See*** Datawindow-Syntax Enter ascending sorting with "asc", descending with "desc". Field names are entered in the screen (see Debug-Fenster) and not the SQL-name ***Example:*** sort item number descending, but items of item group "material" first. if(oitm_u_gruppe='material',1,2) , oitm_itemcode desc
Filter (DW)	Set filter on existing list Sorting is entered in DW-Syntax. ***See*** Datawindow-Syntax ***See*** notes above.

Many parameters can be set for design to make templates more distinguishable.

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry > "Design" tab.

© 2026 Boyum IT Solutions A/S



Window system_template_edit_page1.psr

Field Descriptions

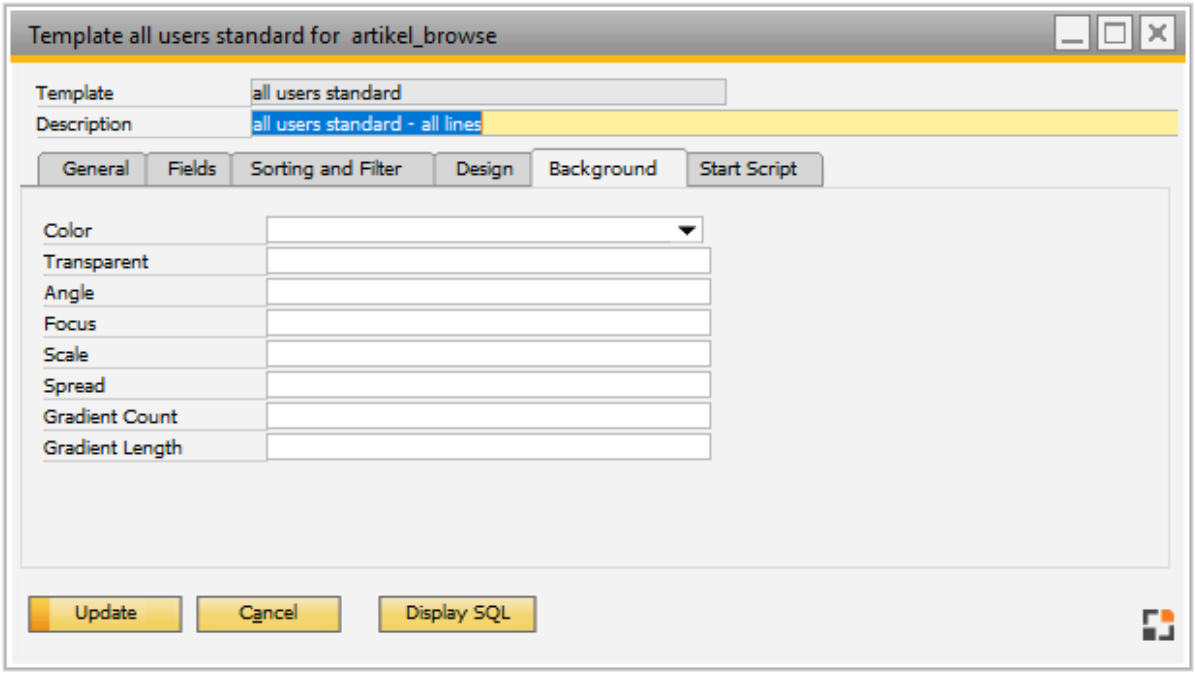
Field	Descriptions
Font	Font Note: Only use fonts which are available at all clients.
Font size	Font size in PowerUnits (usually between 30 and 100)
Font field height	Determines the number of PowerUnits in a list row
Color	Determines font color Note: several fields have a fixed color rule or have assigned color from window settings. These settings have a higher priority.
Zoom	The whole view can be magnified or scaled down. Default view is 100% (with default font 10 SAP Business One – general settings)
Background type	Background setting; dependent fields are displayed. Picture: a tab is displayed to define the background. Solid: In field "Color" a background color can be defined. xxx-Gradient (= color gradient): the first color is defined under "color". All other properties can be set under "Design" tab.

© 2026 Boyum IT Solutions A/S

Color	Only visible if "type" was set to "solid" or "xxx-gradient" determines background color.

Tab is only visible if "xxx - gradient" was selected in Design – background type.
All additional settings are made here. Every change can be viewed immediately.

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry > "Background" tab.



Window system_template_edit_page1.psr

Only visible if "Image" was selected in Design – Background type.
A background image and the type of display can be defined.

Field descriptions

Field	Description
Type	Type of display: original size, distorted, repetition etc.
File	Select image file. NOTE: The file must be located on a network drive, accessible from all clients.
Transparent	Transparency in % (0 –100%)

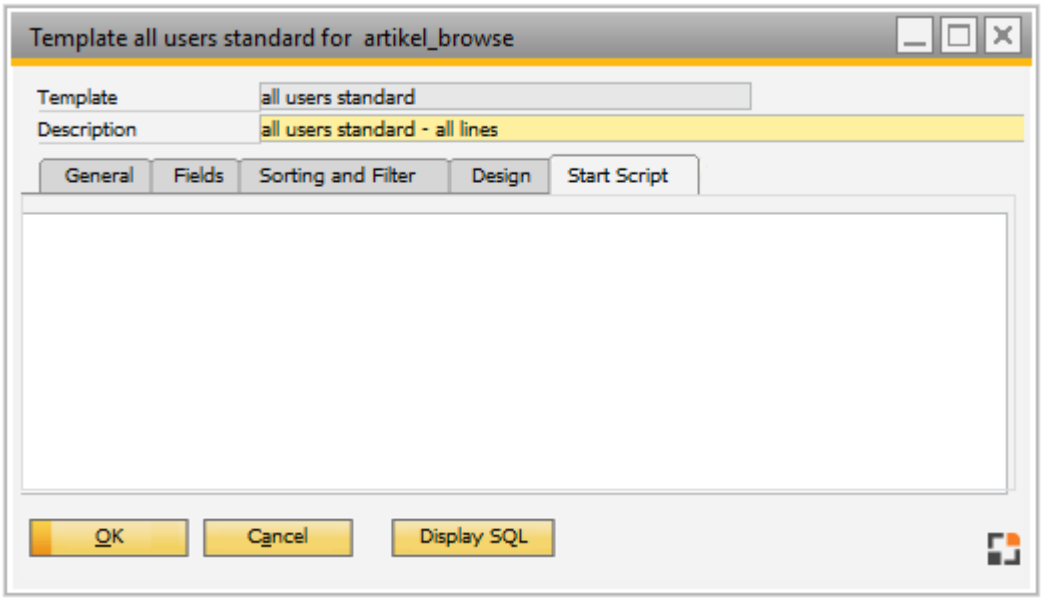
© 2026 Boyum IT Solutions A/S

Beas – Script is executed after the view was built up. Additional properties can be defined.

Example: Change field and row height for displaying a picture

```
dw.datawindow.detail.height=180
dw.templatefield1_c.height=180
```

PATH: Open list window > right-click Beas logo in the bottom right corner > select "Template Administrate" > **Open** an entry > "Start Script" tab.



Window system_template_edit_page1.psr

1.12.1.15.2 Icons

Beas uses a lot of icons of its own.

see

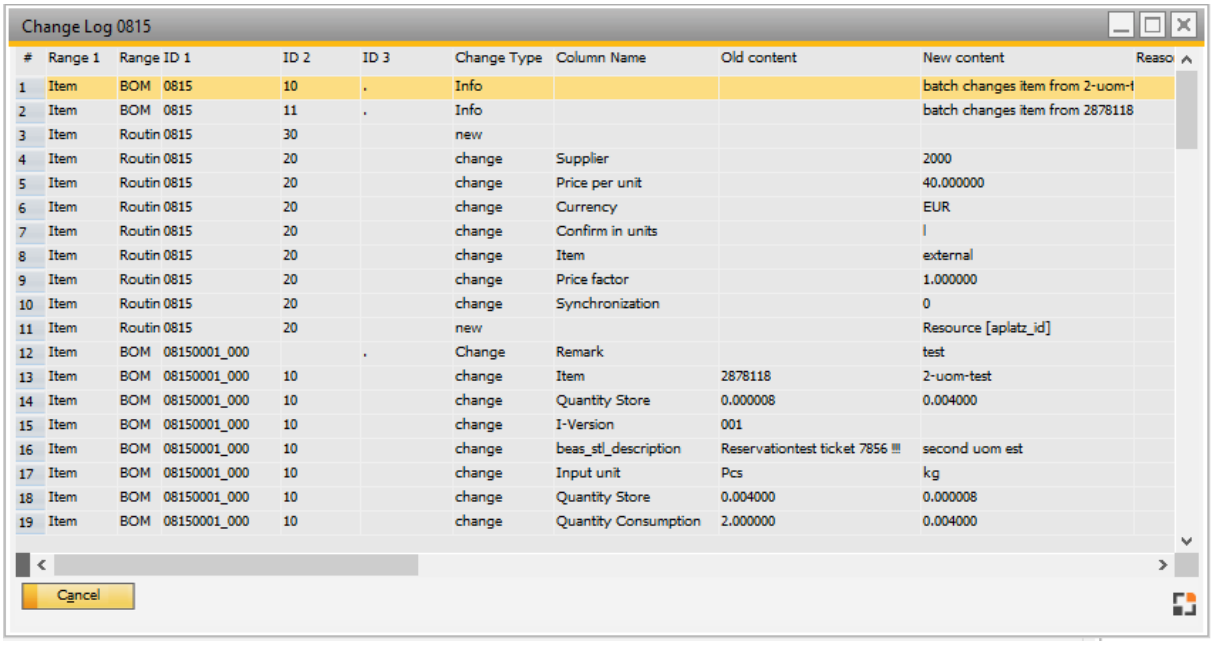
Work order

Operation types

1.12.2 Change log

In the Change log all modifications of master data and movement data are logged. This window can be called up from various windows via **right-click > Change log** in the / right-click menu tab.

© 2026 Boyum IT Solutions A/S



#	Range 1	Range ID 1	ID 2	ID 3	Change Type	Column Name	Old content	New content	Reaso
1	Item	BOM 0815	10	.	Info			batch changes item from 2-uom-t	
2	Item	BOM 0815	11	.	Info			batch changes item from 2878118	
3	Item	Routin 0815	30		new				
4	Item	Routin 0815	20		change	Supplier		2000	
5	Item	Routin 0815	20		change	Price per unit		40.000000	
6	Item	Routin 0815	20		change	Currency		EUR	
7	Item	Routin 0815	20		change	Confirm in units		I	
8	Item	Routin 0815	20		change	Item		external	
9	Item	Routin 0815	20		change	Price factor		1.000000	
10	Item	Routin 0815	20		change	Synchronization		0	
11	Item	Routin 0815	20		new			Resource [aplatz_id]	
12	Item	BOM 08150001_000		.	Change	Remark		test	
13	Item	BOM 08150001_000	10		change	Item	2878118	2-uom-test	
14	Item	BOM 08150001_000	10		change	Quantity Store	0.000008	0.004000	
15	Item	BOM 08150001_000	10		change	I-Version	001		
16	Item	BOM 08150001_000	10		change	beas_stl_description	Reservationtest ticket 7856 !!!	second uom est	
17	Item	BOM 08150001_000	10		change	Input unit	Pcs	kg	
18	Item	BOM 08150001_000	10		change	Quantity Store	0.004000	0.000008	
19	Item	BOM 08150001_000	10		change	Quantity Consumption	2.000000	0.004000	

Window: system_aenderung_browse

All changes of master data and movement data are saved to one table, separated by types. Changes are saved on field level, i.e. a new entry will be generated for every changed column.
Changes logged in SAP Business One are not logged in Beas – change log. For example Item master data.

There is no automatic deletion of the entries, but you can use the Archive data function for manual removal.

Field	Description
Range	Main area e.g. "Work order" for manufacturing
Range 2	Sub-category
ID 1	ID (Item ID, Document number etc)
ID 2	Sub-ID (BOM position, Manufacturing position etc)
ID 3	Additional sub-ID (Production BOM position, Production Routing position)
Type (of change)	**Type of change** **Change** – **Field change** Delete – Deletion New – New entry Info – Information

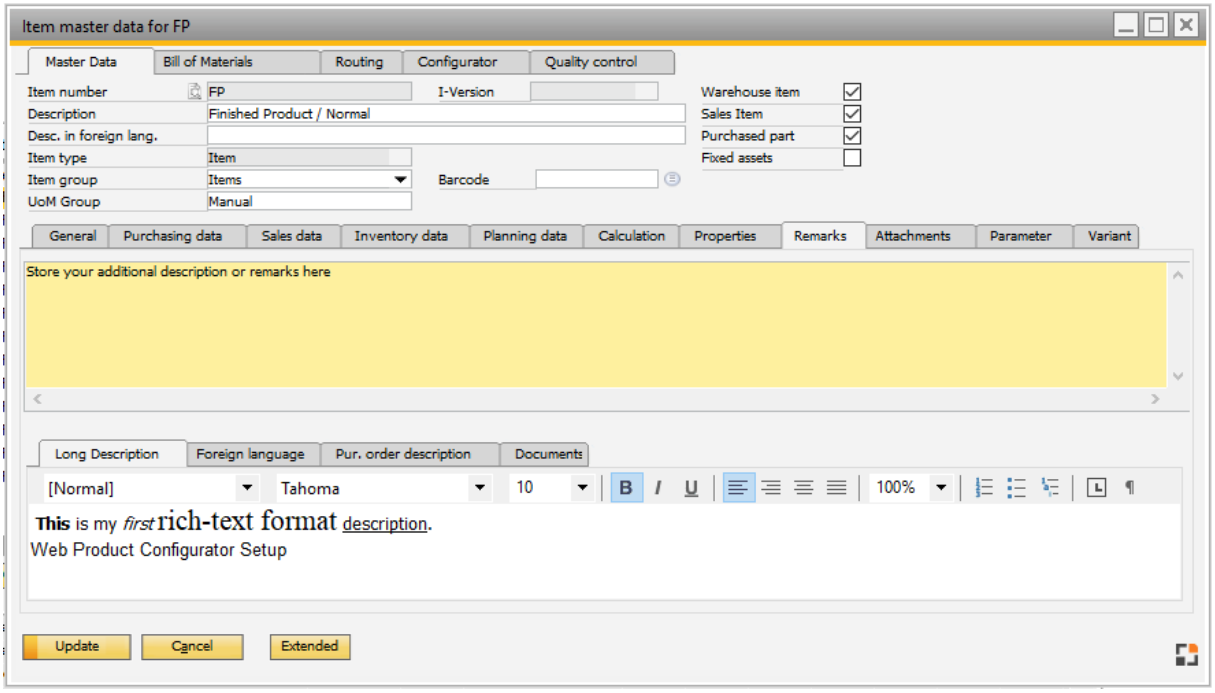
© 2026 Boyum IT Solutions A/S

Field	Description
Column	Name of changed column
Old content	Old, previous content
New content	New content
Changed	Date and time of change
Reason	Change reason In the configuration wizard you can activate a basic entry for changes in different areas. This is displayed here.
Program	Used Program (WEB, Desktop, BSL and so on)
Application	Desktop: The name of window (PSR-Name) or WEB APP Name
Work station name	work station ID
Beas version	Beas version
Personnel ID	User ID to execute the change
Personnel Name	Name of user
Key 1	Database – field name of changed column
Key 2...8	Various meanings, depending on the data type. ***Example***: Order time receipt

1.12.3 Text Editor

The text editor can be opened from various windows, for example the Item Master Data.

© 2026 Boyum IT Solutions A/S



Window artikel_ edit.psr

[View entered text](#)

[Edit text](#)

[Create RTF text](#)

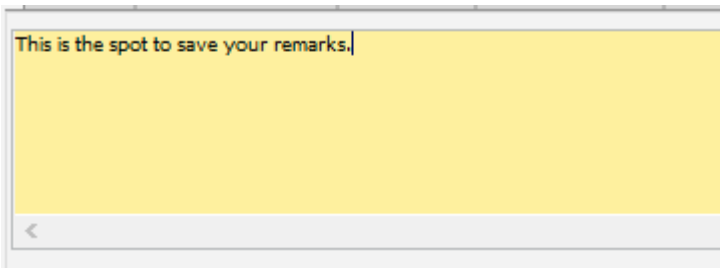
1.12.3.1 View entered text

The previously entered text appears non-formatted in a separate window, for information.

1.12.3.2 Text editor

This text editor serves as a basic text input interface without formatting.

It only supports **Ctrl+C**, **Ctrl+V** keystrokes and right-mouse click options Select All, Undo, Cut, Copy, Paste and Delete.

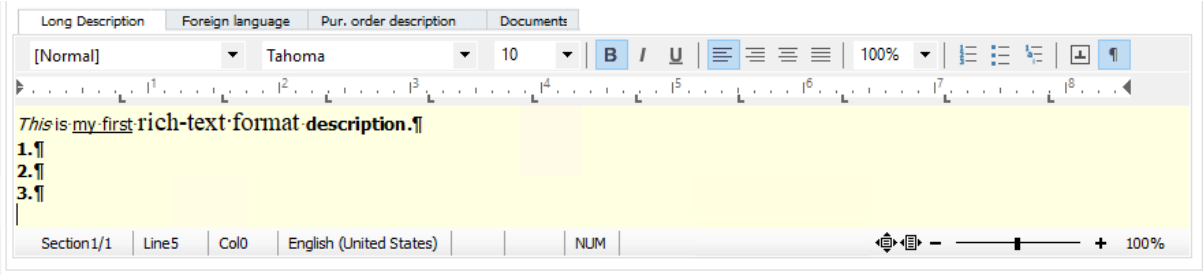


Window system_ textedit.psr

© 2026 Boyum IT Solutions A/S

1.12.3.3 RTF Control

Rich-text format control can be called from various Beas windows.
Enable RTF for master data in the Configuration wizard.



The RTF format can be controlled with:

Toolbar

The following toolbar functions are available:

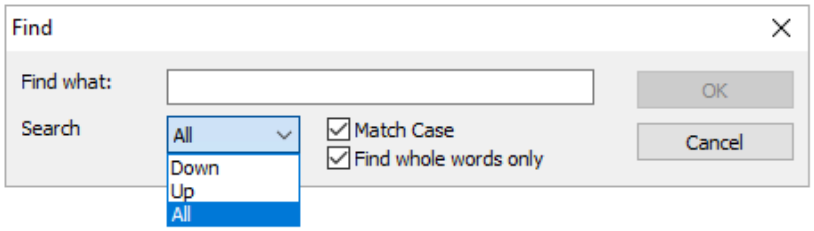
Tool bar function	Description
[Normal]	Set paragraph formatting style: "Normal" or "Default paragraph font"
Tahoma 10	Set font type and point size from the drop-downs.
B I U	**Bold**, *italics* and underlined effects.
	Align text to the left, center, right or justified.
100% – + 100%	Adjust text view with pre-defined aspect ratio, or the sliding bar in the bottom right window section.
	Create an ordered or unordered list by clicking their respective buttons.
	Set left-, right-, centered-, or fixed tabs for the text.
¶	Show paragraph marks and other hidden formatting text symbols.
Section1/1	Displays the current text section number.
Line xxx	Displays the number of the document line being currently edited.
English (United States)	Displays the language defined in the regional settings.
NUM	Information displayed when "NumLock" key is active on keyboard.
	Switch between layout types.

See other standard toolbar functions.

© 2026 Boyum IT Solutions A/S

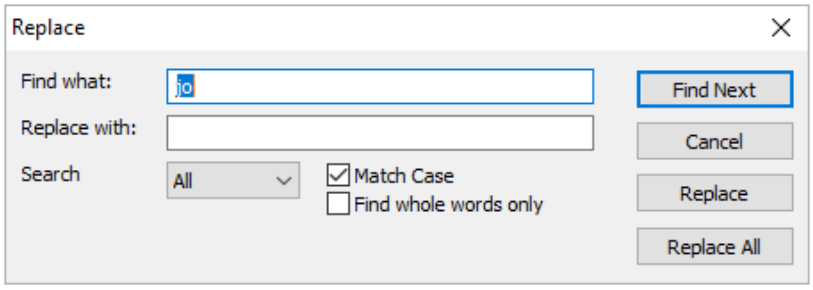
Right-click

The right-click menu of the RTF editor contains further settings.

Function	Description
Insert File...	Insert a file into the RichTextEdit control.
Cut/Copy/Paste/Delete	Basic text editing options to manage selected text.
Find...	Enter a word and set various options to find it: 

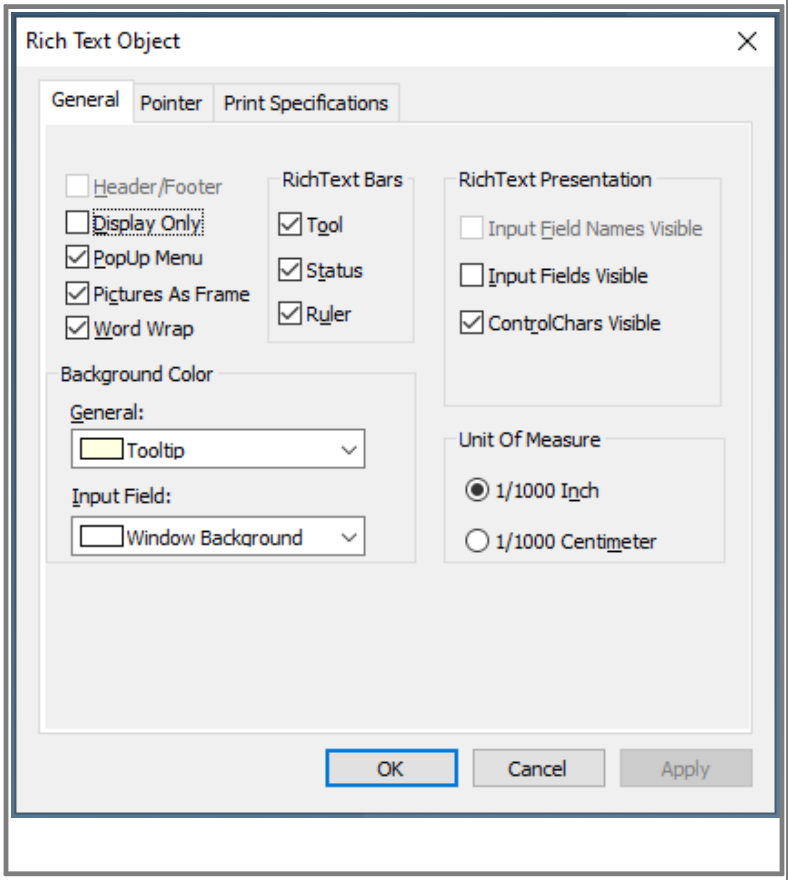
Function	Description
Find what	Enter a word/part of word to find in the text.
Search	Select the section of text to search in: - All: Search the whole text. - up: Search text above current cursor position. - down: Search text under current cursor position.
Match Case	Find words/parts of words according to the exact lower-uppercase format of your word. ***Example***: 1. If you enter "SYSTEM", the search function will ignore "system" or "System". 2. If you enter "SY", the search function will ignore "sy" or "Sy".

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Function</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Function</th><th>Description</th></tr>
<tr><td>Find whole words only</td><td>Activate radio box to show hits only for whole words.</td></tr>
</table>
</td></tr>
<tr><td>Find Next/Previous</td><td>Select these options to move up or down in the text among the search hits of the "Find..." function.</td></tr>
<tr><td>Replace...</td><td>Replace a word/words or all words with the function opening in a separate window.
 

<table>
<tr><th>Function</th><th>Description</th></tr>
<tr><td>Find what</td><td>Enter a word/part of word to find in the text.</td></tr>
<tr><td>Search</td><td>Select the section of text to search in:
- All: Search the whole text.
- up: Search text above current cursor position.
- down: Search text under current cursor position.</td></tr>
<tr><td>Match Case</td><td>Find words/parts of words according to the exact lower-uppercase format of your word.
Example:
1. If you enter "SYSTEM", the search function will ignore "system" or "System".
2. If you enter "SY", the</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Function</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Function</th><th>Description</th></tr>
<tr><td></td><td>search function will ignore "sy" or "Sy".</td></tr>
<tr><td>Find whole words only</td><td>Activate radio box to show hits only for whole words.</td></tr>
<tr><td>Find Next</td><td>Select these options to move up or down in the text among the search hits of the "Find..." function.</td></tr>
<tr><td>Replace / Replace All</td><td>Replace the selected instance of the word / Replace ALL instances of the entered word.</td></tr>
</table>
</td></tr>
<tr><td>Properties</td><td>This menu entry opens a control center in a separate window with three tabs:
General tab
 
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Function	Description
	Field descriptions **Field** / **Meaning** Header/Footer — Activate header or footer. Display Only — Activate this option to prevent further editing of the input fields and text. PopUp Menu — If you enable the pop-up menu property, users can customize the appearance of the RichTextEdit control. From the pop-up menu, users can: • Perform editing tasks (cut, copy, paste, and clear) • Insert a file into the RichTextEdit control • Display and modify the Rich Text Object dialog box Pictures As Frame — Insert images in the text as frames. Word Wrap — Affects newly entered text only. If the user enters new text in an existing paragraph, word wrap is triggered when the text reaches the right edge of the control. To get existing text to wrap within the display, the user can tweak the size of the control (if it is resizable). RichText Bars — Activate Tool, Status or Ruler to be displayed in the editor.

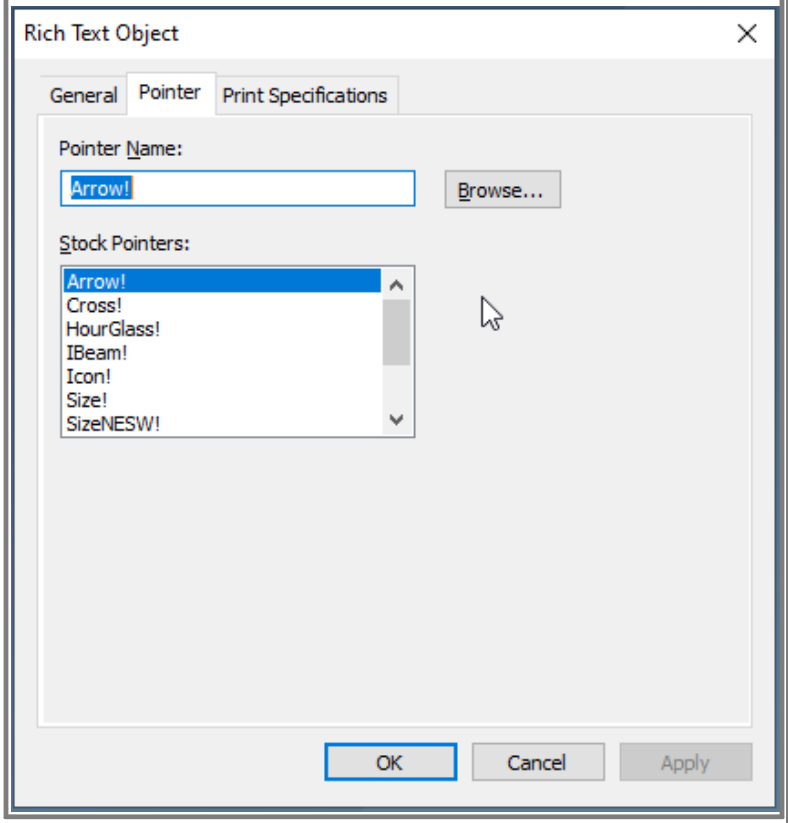
© 2026 Boyum IT Solutions A/S

Function	Description

Field	Meaning
RichText Presentation	Set the following properties visible by activating them: - Input Field Names Visible - Input Fields Visible - ControlChars Visible
Background Color	Colors for the whole background and the background of input fields.
Unit of Measure	Select between 1/1000 inch or 1/1000cm.

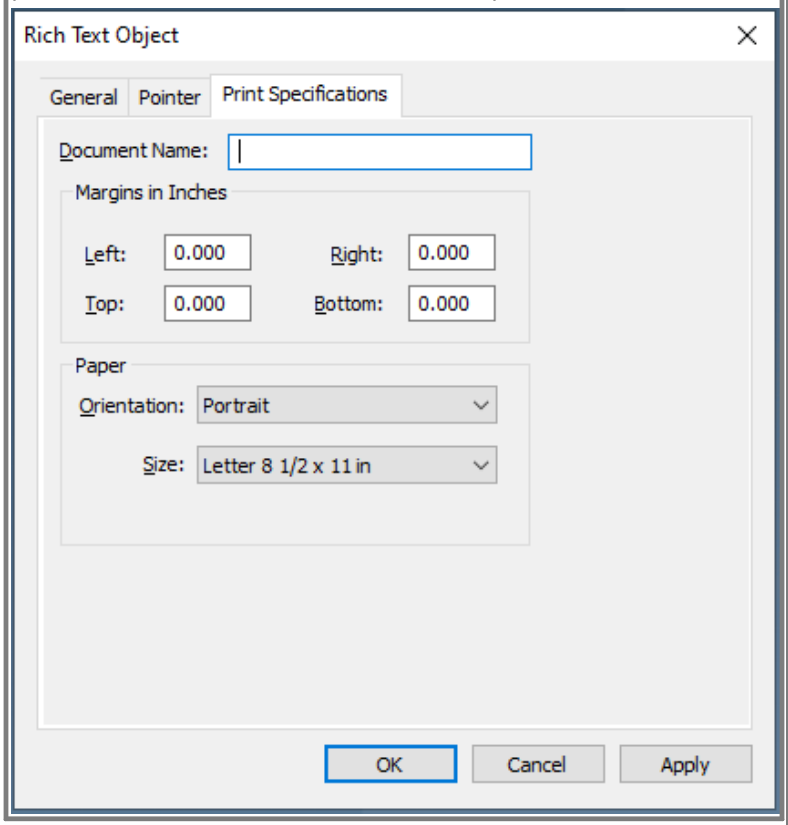
Pointer tab

Select a pointer from the stock ones or browse your own pointer to use in the editor.



Print Specifications tab

© 2026 Boyum IT Solutions A/S

Function	Description
	Specify margin properties, paper orientation and paper size and provide a name for the document to be printed. 

Formatting keys

You can use the basic RTF keystrokes.

See Working with Rich-text in powerbuilder environment

© 2026 Boyum IT Solutions A/S

2 Installation Instructions

Overview on installation of Beas license administration and creating databases. The installation is the same for MSSQL and HANA.

> Note:
>
> Sometimes it is referred to as a shared folder **<Servername>.\b1_shr**. This is the shared folder when using the MSSQL-version.
>
> For HANA the name is **<Servername>.\b1_shf**

- Installation requirements

  Consider compatibility with Windows, HANA or SQL-Server and SAP Business One.
  See: Compatibility: current Windows program library is required (activate automatic updates)

- Hardware requirements

  Database Version and Server Sizing
  Hosted Enviroments
  Device / Client requirement
  Requirement for a Demo

- Required SAP B1 License

  SAP Business One has to be licensed. The license server has to be installed and activated.
  PC-Terminal-Solution: SAP Business One Indirect License per Station (***See*** Terminal)
  SAP Business One Integrated Solution: Limited or professional per User
  Beas as service: An indirect license per server (***See*** Service)

  > **DISCLAIMER**: This chapter links all technical requirements for installing Beas with required SAP Business One license. **Please review SAP license rules before installing Beas**.

- Required Beas license

  Beas has to be licensed previously on https://portal.boyum-it.com.
  As an alternative, you can request a demo license: https://portal.boyum-it.com/TryBeas/TryCustomer

  For more information ***see*** License.

- Beas 32 Bit or 64 Bit version?

  Starting with Beas 2020.03 there are, as usual, a 32 Bit application, along with a 64 Bit version.

© 2026 Boyum IT Solutions A/S

If SAP Business One is installed as 32 Bit version, Beas also has to be installed in the 32 Bit version.
If SAP Business One 64 Bit is running, both 32- an 64-Bit version of Beas can be installed.

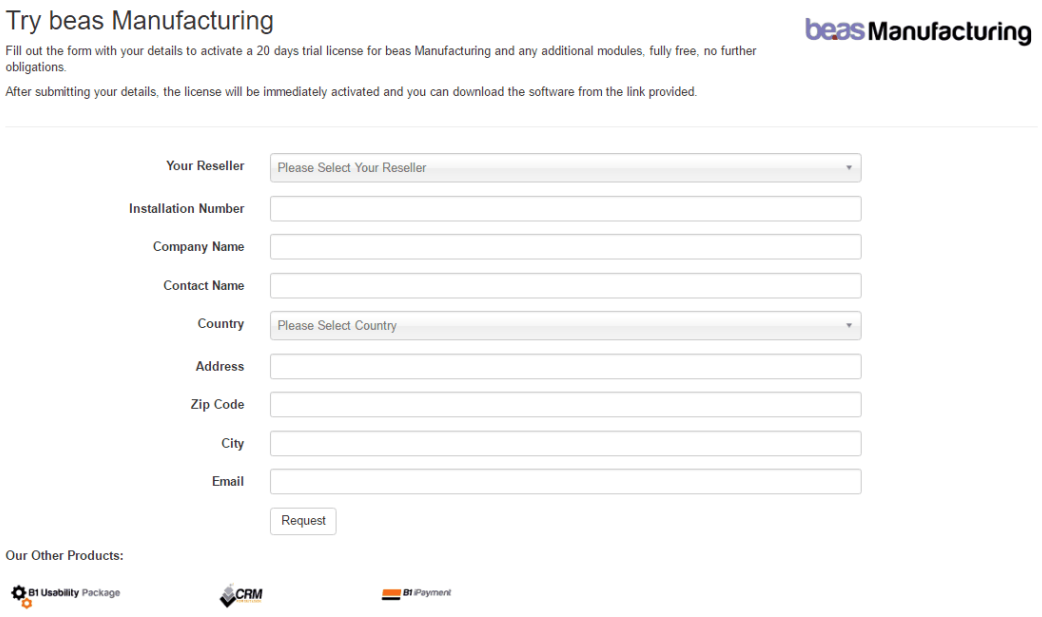
The installation process is the same for both versions.
The difference is the default path where Beas is installed. The 32-Bit application will be installed in **C:\program files (x86)**, the 64-Bit application in **C:\program files**.

Limitations:
Each module of Beas is available in 32- and 64-Bit, except the GANTT-Viewer for the APS.
If APS is used, it is recommended to install the 32 Bit version. If you still want to use the 64 bit application together with APS,
you have to install the 32 bit version additionally. Then, when the GANTT-Viewer is called, it is opened with the 32-bit version.

IMPORTANT: SAP 10 is only compatible with Beas 64Bits. ***See*** Compatibility.

Download Beas

Current versions of Beas are available at Beas news.
1. Register Beas license at https://portal.boyum-it.com.



2. Download current version at Beas news and read the relevant notes.

© 2026 Boyum IT Solutions A/S

- Installation on a server (or demo-installation on notebook)

Required steps:
1. Download
2. Start Installation
3. SAP Server directory: Select ...\b1_shr if default is not correct
4. AddOn registration in SAP Business one

The required files are copied to b1_shr – Server folder of SAP. To install the the program itself, (Client installation) Administration rights are required.
Installation in a minute

Installation without SAP Business One – Client (e.g Terminal):

```
.....\b1_shr\beas_software\client\ClientSetup.exe
```

for 32-Bit or for 64-Bit

```
.....\b1_shr\beas_software\client_x64\ClientSetup_x64.exe
```

- Installation on a client system

Preparation:
The installation on a client is only necessary if this is not the server at the same time.

All further steps are only necessary if
- update of older versions as beas 9.2 PL: 04
- first installation

If using Beas 32-Bit, the current DI-API 32 Bit has to be installed. The DI-API 32 Bit has to be installed even if a SAP Business One 64-Bit-Client is installed

if running the 64-Bit Beas, then the 64-Bit of the DI-API is needed, and if APS is used in 64 Blt version, also the 32-Bit DI-API is needed.

Note:

Often the DI-API will not be updated automatically at an SAP B1 update. In this case please uninstall and reinstall the DI-API.

© 2026 Boyum IT Solutions A/S

DI API precondition: ODBC driver must be installed.

Beas has to be licensed. ***See*** https://portal.boyum-it.com

Start Windows with a user with administrative rights.

Start installer

SAP Business One - AddOn Administration - register AddOn

Select and install AddOn at `b1_shr\beas software\AddOn_x32 oder AddOn_X64\installer.ard`

Note:

If there are any problems

- UAC (User Account Control Settings) set to "Never"
- Login as administrator

Beas updates:

There is an automatic installation of an update if one is available on the server. Administration rights are not required.

Important setting in the SAP Add-On-Administration window:

The Beas AddOn has to be at first place to ensure that other functions will not be disabled by Beas.

Note: The AddOn installed here is only a connector to Beas This means that the AddOn normaly does not have to be updated at an upgrade of Beas. Sometimes it can be, that the AddOn Connector gets some new functionality, then the release notes will point out, that an update of the addon has to be installed.

Note for 64-Bit-SAP Business One Clients:

Beas 32-Bit requires additionally the installation of the 32-Bit DI-API. But the SAP Business One – Client 32-Bit and 64-Bit may never be installed at the same time.

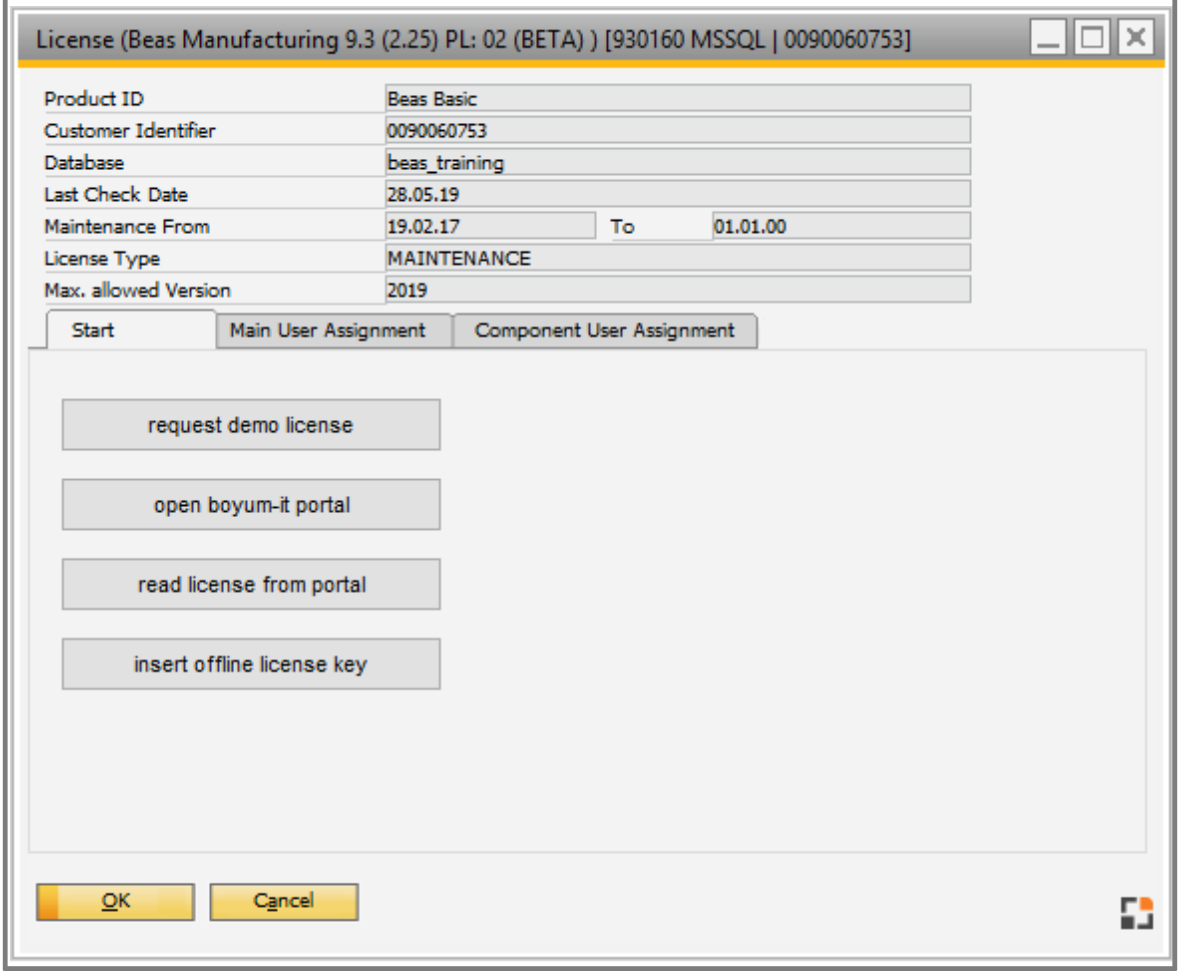
Note for 32-Bit SAP Business One Clients:

Beas must also be installed in 32-Bit mode. In this constellation the installation of 64-Bit Beas is not supported.

- Activation

© 2026 Boyum IT Solutions A/S

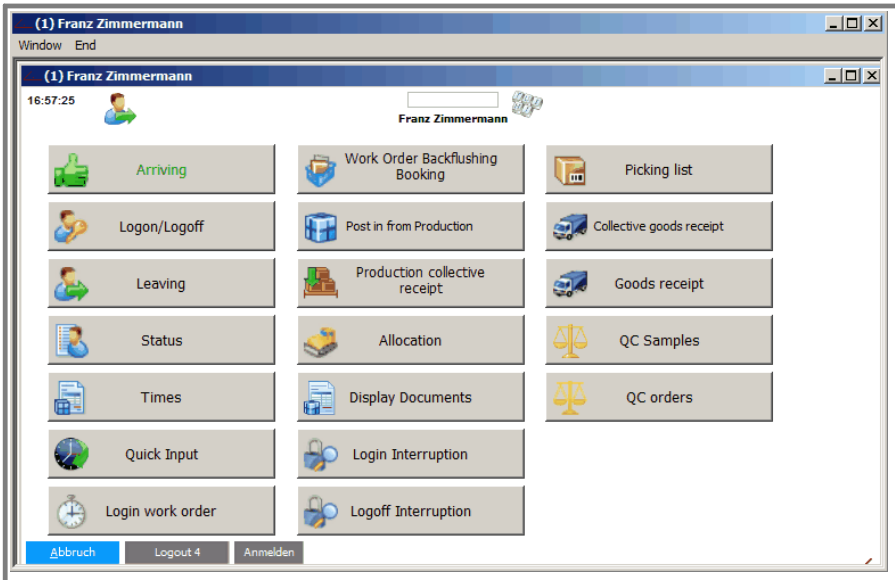
Basic license is assigned automatically, but you can assign it manually under License. For more information on license administration ***see*** License.



Installation Terminal Mode

Beas can be run in Terminal Mode.

© 2026 Boyum IT Solutions A/S



This is commonly used in shop floors.

Installation preconditions:

If SAP Business One is not installed on this work station, you must install the SAP Business One DI API 32 or 64 Bit from `\\B1_SHR\DIAPI` or `\\B1_SHR\DIAPI.x64`

DI API precondition: ODBC driver must be installed.

SAP Business One Crystal Viewer from folder `\\B1_SHR\Client\CRRuntime` or `\\B1_SHR\Client.x64\CRRuntime`

Terminal installation steps:

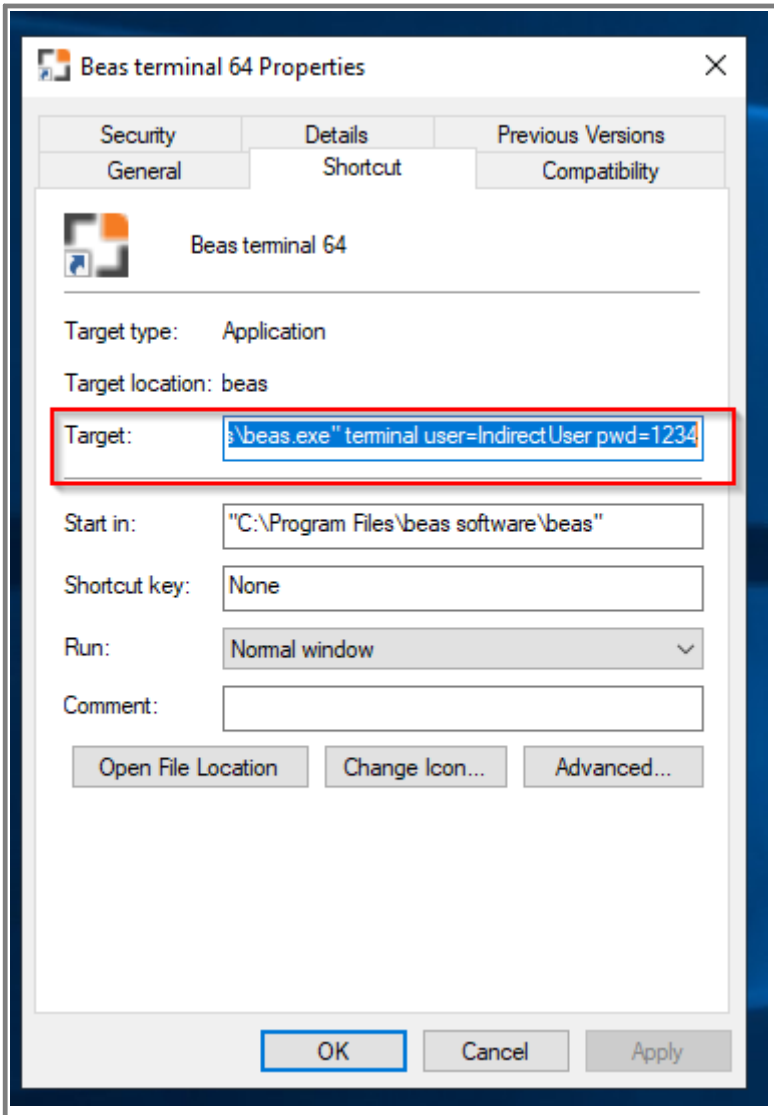
1. Install Beas from **Program ...\b1_shr\beas software\Client\ClientSetup**
2. Start Beas on this station and insert settings for Server
3. Log in to Beas with the Terminal user and close. With this all settings are saved.
4. Go to **C:\Program Files (x86)\beas software\beas** this is for Beas 32bit,

or **C:\Program Files\beas software\beas** for Beas 64bit.

5. Right-click beas.exe and create a shortcut
6. Move shortcut to desktop
7. Rename shortcut to Beas terminal
8. Open Shortcut properties
9. Insert "terminal" after the link:

"**C:\Program Files (x86)\beas software\beas\beas.exe" terminal**"

© 2026 Boyum IT Solutions A/S



See Terminal Client Server based

- Cloud solution, SAP Business One Cloud

Beas can be used as a "Cloud solution on promise"

Concept:

SQL Server + Terminal server are in the Cloud.
Install SAP and Beas on the SQL Server and on Terminal server.
Per Remote Session you can connect to the Client.

WEB APPs and other web-based services:

© 2026 Boyum IT Solutions A/S

1. Install WEB Services.
2. Install XAMPP and use this as Proxi Server for WEB Services .
3. Define a port for which you have access from outside of the Proxi Server.

Now you can use all WEB APPs and Services.

SAP Business One Cloud

The SAP Business One Cloud solution has many limitations.

Example: It is not allowed to use own services. But for using the complete functionality, especially all automatic processes or WEB Frontend, you need the services.

This is one of the reason why we do not deliver a Beas solution that is compatible with SAP Business One cloud.

It is possible, but only when you can access the machine (workstation) directly.

Beas needs to be installed on the workstation with BeasSetup.exe and registered in SAP in the standard way with an .ard file.

Using Beas is only possible from the direct connection (Remote Access solution), not with the cloud SAP application.

- Program Update

Server: Installation is performed the same way as initial installation

Client with SAP Business One: automated update.

Terminal (without SAP Business One): Start b1_shr\beas_software\client\ClientSetup.exe, if automated update is not working

Server: Runs the installation in the same way as the initial installation

Client with SAP Business One: An update runs automatically. No further steps are required.

Terminal (without SAP Business One): start b1_shr\beas_software\client\ClientSetup.exe, if there is no automatic update.

Important: you can use the current version only:

- if it is a demo version
- if you paid maintenance for the current year

Older versions can be installed for the year you paid the maintenance for.

When you receive a hotfix for an older version, you can run the program only with paid maintenance.

© 2026 Boyum IT Solutions A/S

Note: If Beas cannot connect to the license server https://portal.boyum-it.com, you have to update the license yearly using the offline license-function.

Topics:

Installation and administration of the virtual machine

2.1 Lightweight installation

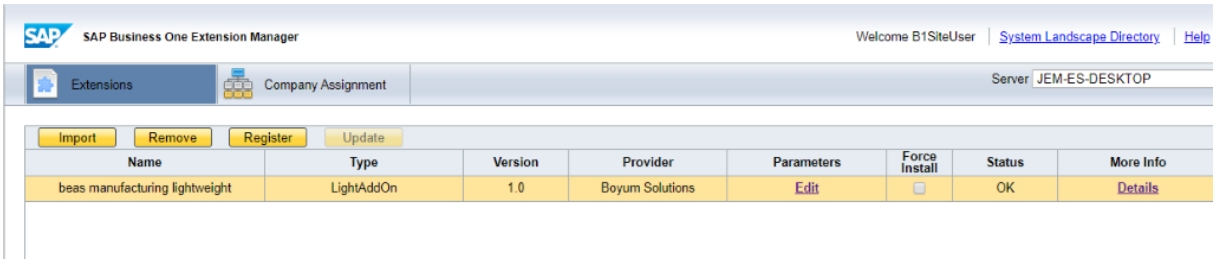
Beas Manufacturing in a Cloud environment

Although Beas Manufacturing is not a native cloud solution, it can be turned into a cloud solution by creating your own hosted cloud server or through a public or private provider.
As of Beas Manufacturing 2020.02 and 2020.03, Beas is made compatible with Public (and private) cloud environments of SAP Business One.

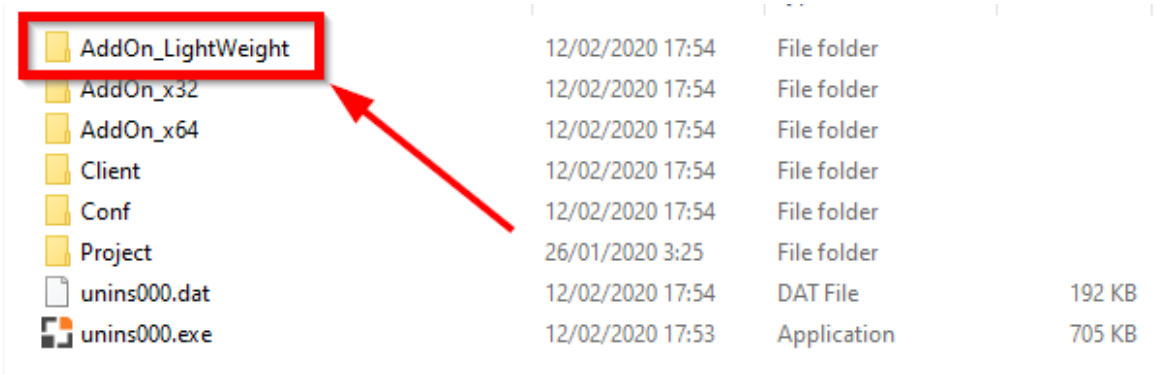
The following functions are available:

Installer

Lightweight installer is now included into 2020.02 version

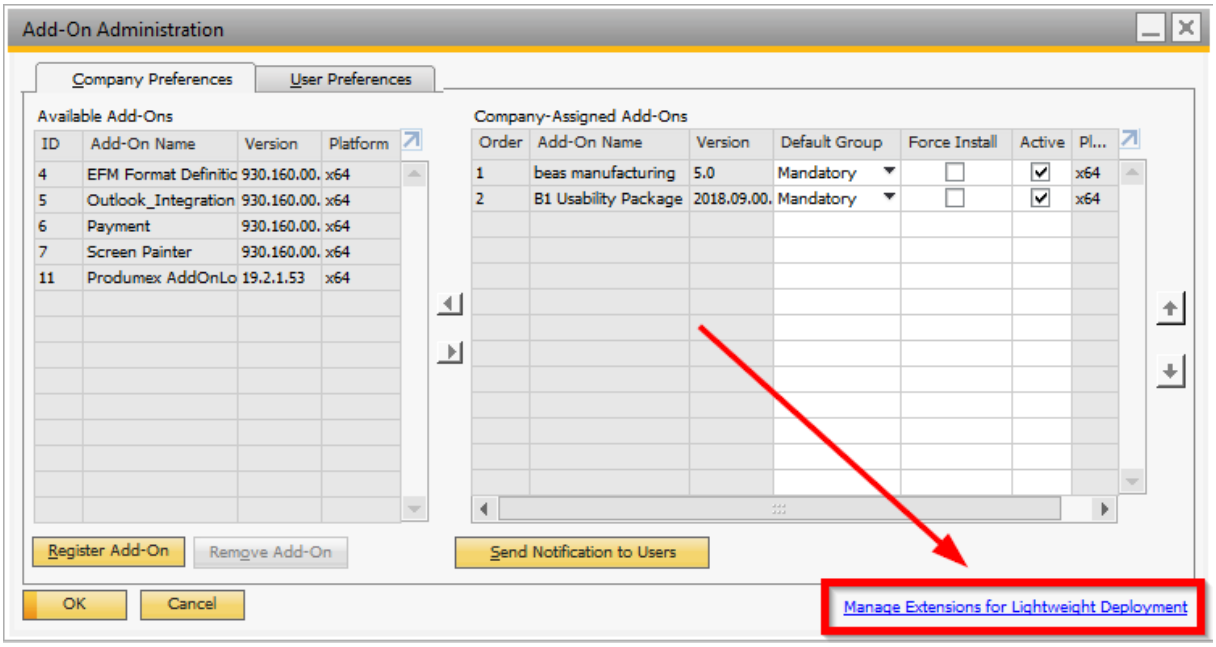


The version 2020.02 has Lightweight Installation files.



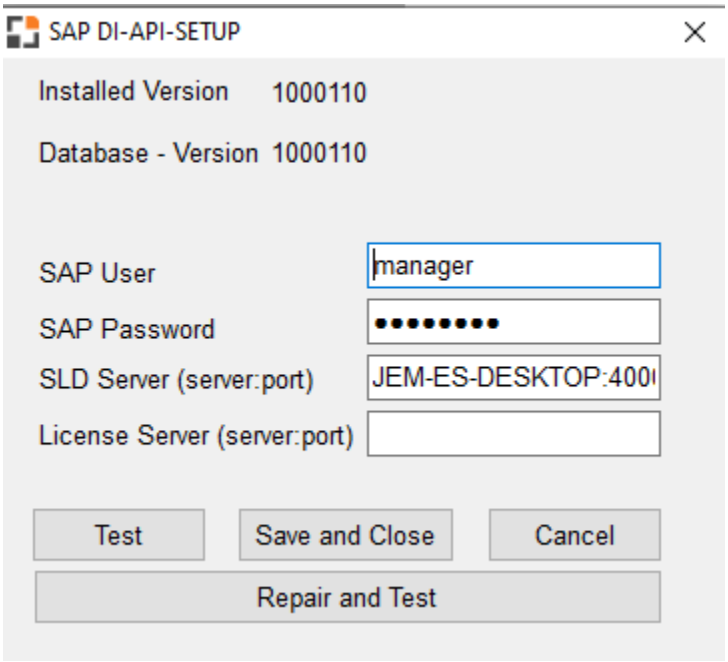
© 2026 Boyum IT Solutions A/S

To install Beas as a lightweight Add-On, login to the "**Manage extensions for lightweight deployment**" portal of SAP, and follow the steps described by SAP to install and activate the Add-On:



SLD compatibility to DI-API connections

As of Beas Manufacturing 2020.02 and 2020.03, we support DI-API connections based on SLD server. Beas supports the old License server connection and also the new SLD server connection. SLD connection always has more priority than License Server connection.



© 2026 Boyum IT Solutions A/S

Single Sign-On login process in SAP

Beas supports Single Sign-On login process in SAP. You can login in SAP using standard Single Sign-On login process and Beas will work as a normal add-on. Available in version 2020.03.

Single Sign-On login process in Beas Standalone version

Currently, Beas does not support Single Sign-On login process in the Beas Standalone Application. To log into Beas Standalone, only SAP user/Password is allowed. This functionality will be implemented in the following version of Beas.

2.2 Installing a Beas Update

ATTENTION:

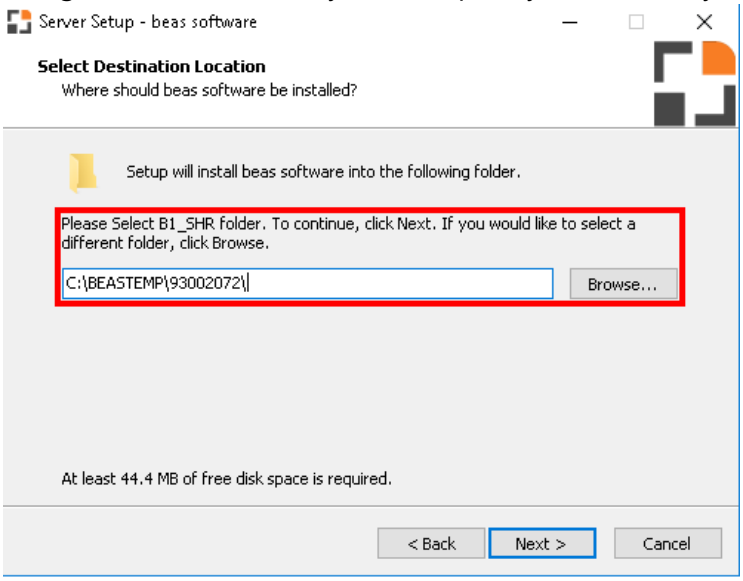
Before you install a new version on the customer system, you have to test all customizations, reports and main processes with the new Beas version with a copy of customer database together with the new SAP Version, which you need to install on a parallel test machine.

If you only want to update Beas, no test machine is necessary.

- Test new Beas version on the customer live machine.

It is possible to install different Beas version on one machine.

1. Create a copy of the customer database on your test machine.
2. Rename the *c:\program folders\beas software\beas* folder to *c:\program folders\beas software\backup* folder.
3. Change the server directory to a temporary local directoy, for example *C:\BEASTEMP\xxx*



4. Install the new Beas version with the installation file on your local computer.
5. Rename the *c:\program folders\beas software\beas* folder to the *c:\program folders\beas software\newversion* folder

© 2026 Boyum IT Solutions A/S

and the *c:\program folders\beas software\backup* back to *c:\program folders\beas software\beas*

Now you have 2 installations:

- Standard: The current version.
- In the "*newversion*" folder: the new version is installed.

Start beas.exe from the "*newversion*" folder and connect to the copy of database. **Important:** Do not connect to the live database.

After the database upgrade, you can check the new version.

Update process

Beas is updated in the same way as it is installed.

The Beas installer browses the directory and only installs the files that have changed.

Every time the client is launched, it checks whether a new version is available.

Before upgrading or updating:

1. Read the Patch information
2. Check the hardware requirements.
3. Test the new version with its database on a test system.

Note:

If you have customization inside the installation, test it on a test system before installing the version on a live system.

Check compatibility list.

Procedure:

1. Download installation file.
2. Start installation file.
3. Follow the instructions.

see

Server management – service

License

© 2026 Boyum IT Solutions A/S

2.3 Uninstalling Beas

From *9.2 PL: 04* Beas can be uninstalled like any other Windows program via Windows – "Uninstall programs".

2.4 Beas startup options

Beas Standalone Options

Beas Access Parameters

Beas.ini

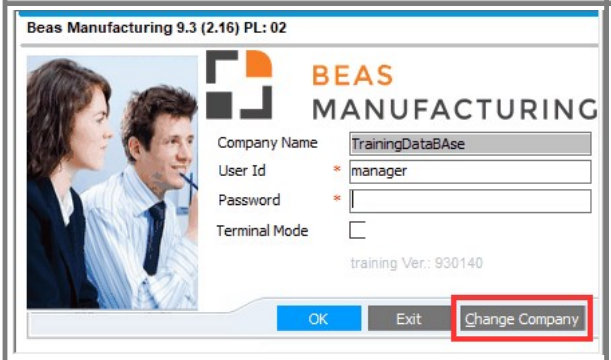
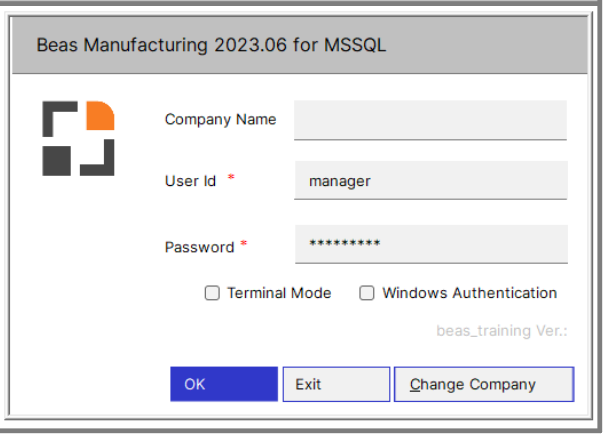
2.4.1 beas standalone options

Beas logon

The logon process to Beas is as follows:
If you start Beas outside SAP Business One (e.g. as Desktop Terminal), you need to enter login information.

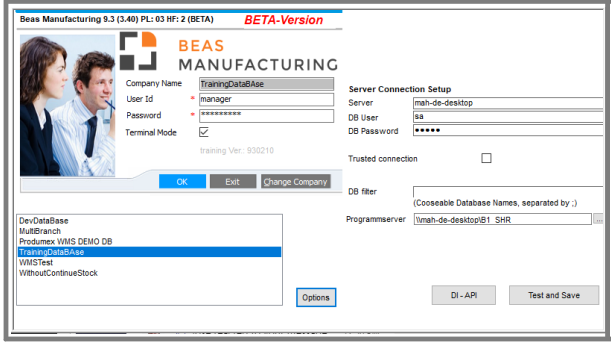
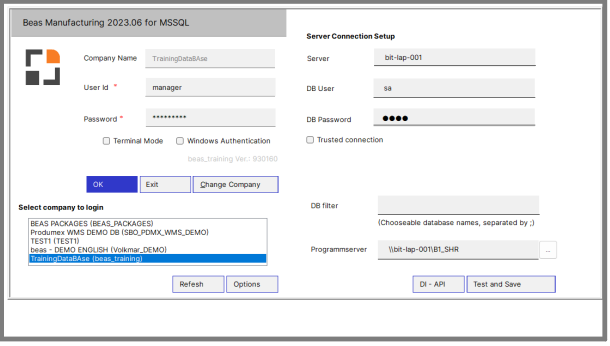
This is required at
- initial installation
- changing server settings

In the login screen, select "**Change Company**"

Traditional style	Boyum Style
	

Select "**Options**" in the right below:
Settings are not available for connecting Beas to the database server:

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style
	

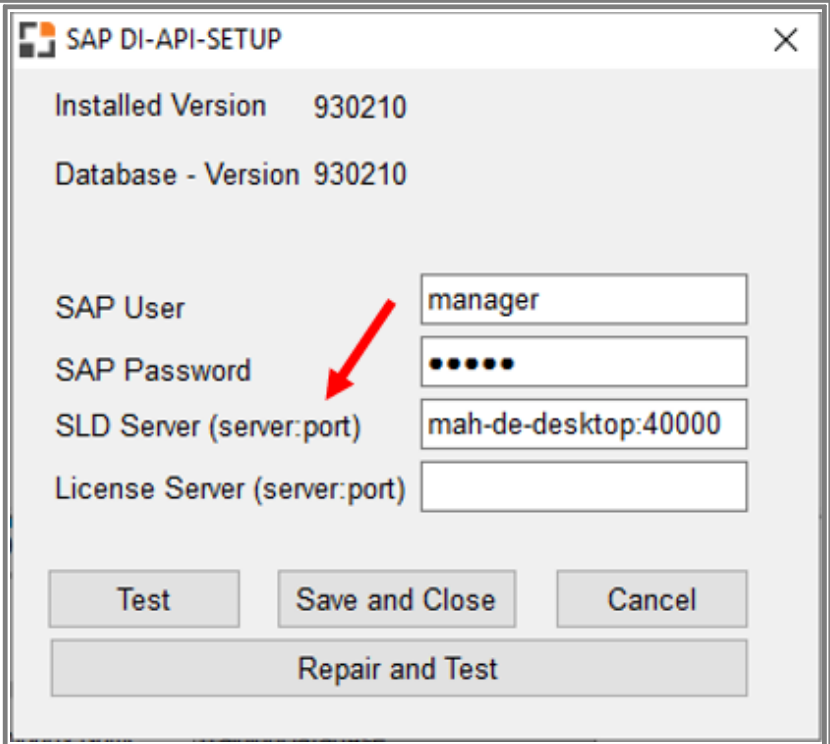
Field descriptions

Field	Description
Server area settings	
Server	Server name or IP-address need to match the entry in System Landscape Directory (SLD). MSSQL: Enter Name/IP-address HANA: Enter Name/IP-address and Port ***Example***: HANAB2:30015
DB User	Database User
DB Password	Database User Password **Attention**: This field does not support the "," (comma) character!
Trusted connection	Use trusted connection to SQL Server. In this case DB User and DB Password is protected. Use this if all windows users have access to the SQL Server.

Buttons

Button	Description
DI-API	Settings for access of Data-API:

© 2026 Boyum IT Solutions A/S

Button	Description
	

Field/Function	Description
SAP User	Define the Standard user, e.g. for Database Test.
SAP Password	Define the Password for Standard user. **Attention**: This field does not support the "," (comma) character!
SDL Server	Define the License server and port *Beas 2020.02*
License Server	Only for compatibility. Use it only if SDL connection is not working.
Database Driver	Define the specific SQL or HANA driver to connect to retrieve the Company list in the login screen, when connection type is set to "DI-API". When the parameter to retrieve the Company list is set to "db", this parameter is ignored.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Button</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field/Function</th><th>Description</th></tr>
<tr><td></td><td>This field can also be modified in the beas.ini file for parameter "DIAPISQLDRIVER"</td></tr>
<tr><td>Test</td><td>Check if connection is working.</td></tr>
<tr><td>Save and Close</td><td>Save settings and close window</td></tr>
<tr><td>Repair and Test</td><td>Only for SAP Versions < 9.2: Delete broken DI API files.</td></tr>
</table>
</td></tr>
<tr><td>Test and Save</td><td>Save current settings
Attention: Press this button after every change!
Note Beas 9.2 02 and older
Test settings and try to access. Reading and writing access needs to be granted to folder C:\Program Files (x86)\beas software\beas\beas.ini and \\B1_SHR\beas\beas.ini
For more information on beas.ini see beas.ini

The settings will be saved in <code>%programdata%\beas\beas.ini</code> from Beas 9.2 PL: 03. Extended authorizations are no more necessary.</td></tr>
</table>

see "What's New" window

2.4.1.1 beas Access parameters

Beas can be directly integrated from SAP Business One via an Add-on or through "Accessing external programs".

Each Beas – function can be started using parameters. Separator for parameters is a blank character. If the parameter contains a space, please replace by AltGr-3 (= ³).

Beas may only be started in home directory "`%programfiles(x86)%\beas software\beas`". Change directory before calling.

Beas can also be started via Windows-task planner. ***See*** tasks

See Start Beas in different ways

Available parameters:

© 2026 Boyum IT Solutions A/S

Parameter	Description

`mrp=x`	Calculates the MRP x
	Example: Calculating the MRP2
	`beas.exe db=yyy server=zzz user=aaa pw=bbb mrp=2`
	The line can be entered as follows in the Beas server:
	`tools=beasrun=mrp=2`

`batchcalc=x`	Performs the corresponding batch calculation
	`beas.exe db=yyy server=zzz user=aaa pw=bbb batchcalc=2`
	The line can be entered as follows in the Beas server:
	`tools=beasrun=batchcalc=2`

`Terminal`	⊟ Beas is started in a FDC terminal mode The application "terminal" is started. Note: it has to be set up first in Program group Administration 1. Create a link on the desktop to **C:\program files\beas software\beas\beas.exe** 2. Beas start using the link and register once to ensure that the credentials are stored correctly. 3. End Beas. 4. Edit link (right-click) 5. Enter in target box: "**C:\Program files\beas software\beas\beas.exe" terminal db=trainingdb**" (the appropriate directory name and the correct database name need to be specified) A logon with username "terminal" is executed. This user may not be registered as SAP Business One- or Beas-user, because he has special authorizations (license and program). SAP Business One-transactions are executed for the user who is entered in **Configuration wizard > System > DI-API**. On the terminal SAP Business One this is not required, only in the SAP Business One-DI-API. Note: Login is executed with the user name "terminal". This user may not be created as a SAP Business One- or Beas-User, as he has special authorizations.

© 2026 Boyum IT Solutions A/S

Parameter	Description
	SAP Business One-Transactions are executed with the user set up in **Configuration wizard > System > DI-API**. On the PC-Terminal no SAP Business One needs to be installed. But the SAP Business One-DI-API is required. One SAP Business One - Indirect – License is required per work station. ***See*** Licenses. Note: The parameter "USER" may not be used. If this is used, the actual user needs to have a Beas – Basic-License. Note: One DI-API-user per terminal needs to be defined and called up: `(x86)\beas software\beas\beas.exe" terminal user=TERM1 pw=XXXXXX server = SAP9-2016 db=SBO_XXXXXXX_PROD` Please consider SAP licensing conditions! ***see*** Program group Administration ***see*** also Authorization control DI-API User
`/shortdebug`	Open the debug window at program start Allows to analyze the program at start a) Beas directly opens the debug window b) Beas creates a debug log in the file %temp%\beas\beas.log e An error message is displayed at the program start because the debug window has no access to the database. The first error message.
`/debug`	Generate a debug file on assembly level. You can use this for deep analysis. The debug file beas.dbg is located in the same folder as the program itself. It only works if you start Beas with Admin Rights.

© 2026 Boyum IT Solutions A/S

Parameter	Description
task=x	Executes a script which is stored in planned activities. Executed in server mode., Once finished, the Beas instance is closed. Note: When planning a task to be executed, only types "Script" and "Import" are allowed. Other types are not supported. ***see*** Planned activities Tasks
form=<formname.psr>	Opens a form (PSR File) directly. If started with SingleMode (/ms), the program will close when closing the form.
server=<servername>	Name of server. Replace spaces with letter "³" If no servername is defined, Beas uses the last used server.
db=<database>	Database index (n-th entry in database list) or database description or client description. Replace space by _
user=<User-Id>	Login using which Beas-Usee Enter the SAP-User-Id which the program uses for logging on. If a user is entered, the Parameter "pw" is required. Terminal-Mode: The entered user needs the respective Beas – License and Authorizations. The terminal license is not applied here.
pw=<User-Pwd>	The associated user password
dw=<PSR-File>	Opens corresponding window at program start
befehl=<Command>	Submit command to a window. Several command parameters can be specified
/ms	The master window is not opened. Program works in "Single window mode"
/pn	No pop-up window at program start
/f	No footer window
/tb	Do not display toolbar
/ws	Do not load user window settings
/st	Do not load language table

© 2026 Boyum IT Solutions A/S

Parameter	Description
/sw	Single window. If the window specified at start is closed, the whole application is closed.
/sm	"Small menu". Only the menu items "Edit", "Window" and "Help" are available
s_parm1=<value>	Set variable s_parm1 (...4)
c_parm1=<value>	Set variable c_parm1 (...4)
script=<file>	Executes the Beas script. If this contains **<cr_lf>** , it is executed as a batch routine. Blank spaces must be replaced with ³ **Important**: If only one function (Object) is called, the program needs to be closed afterwards with "app=close" Examples ***Example 1***: beas.exe db=yyy server=zzz user=aaa pw=bbb script=messagebox=hello³world Alternatively, the Beas script can be stored in a file beas.exe db=yyy server=zzz user=aaa pw=bbb script=$c:documents ³and³settings\user\myscript.src**<cr_lf>**app=close (Note: the character ³ is accessible via ALT+3) To call an object directly, put in quotation marks, otherwise it would be incorrectly interpreted. ***Example 2***: Post-calculation beas.exe db=yyy server=zzz /inservermode script="<cr_lf>setstr=c_parm3=3<cr_lf>object=ue_fert_naka=batchnaka=3<cr_lf>app=close<cr_lf>" Alternatively a task can be created and the stored script can be executed with "task=x" ***see*** Tasks.

© 2026 Boyum IT Solutions A/S

Parameter	Description
`/language=<language>`	Defines the user language (only if the standard behavior has been disabled under Extra/Options/General)
`servermodus`	Beas starts as "server" Alternative to the server service in local mode
`/inservermode`	Beas starts in server mode. This means that all messages are blocked. Use this to execute scripts.
`/debug2file`	Activates the debug to file mode at Beas Startup. ***See*** topic **System Information > Settings > "Debug to file"**. Available from *2020.05.*

Examples of Beas call up

Examples: Enter correct values for user, password and database.

Terminal on "Demo" database,

```
beas.exe db=demo terminal /pn
```

Report currently present

```
beas.exe user=manager pwd=manager db=mustermann
dw=bde_anwesenheit_aktuell.psr /sw /pn /ms s_parm1=onlypresent
```

Report on client "Mustermann", prevent popup

```
beas.exe db=mustermann report projekt\mustermann\reports\meinReport.rpt /pn
```

Report item_description.rpt for item 100.344

```
beas.exe report artikel_edit_beschreibung /pn /dv=Artikelnummer:=100.344
```

Open item processing for 100.344 with User Manager, end program, when window is closed, use small menu and no popup

```
beas.exe db=mustermann dw=artikel_edit s_parm1=100.344 user=manager
pw=manager /pn /sw /sm
```

Call only order time receipt, close the program immediately afterwards

```
beas.exe dw=fert_arbzeit_erfassen.psr user=manager pw=manager
db=trainingdb /sw /ns /ms
```

Note: `.rpt` or `.psr` NO longer need to be specified.

© 2026 Boyum IT Solutions A/S

Calling up several instances in parallel, (eg. multiple terminal users) the name of the currently logged on user can be displayed in program title.

AddOn Administration - Develoement - Program logic - AddOn - Program Start

Insert "`app=title=beas: <currentuser>`"

Concept: call up via windows task planner

See: tasks

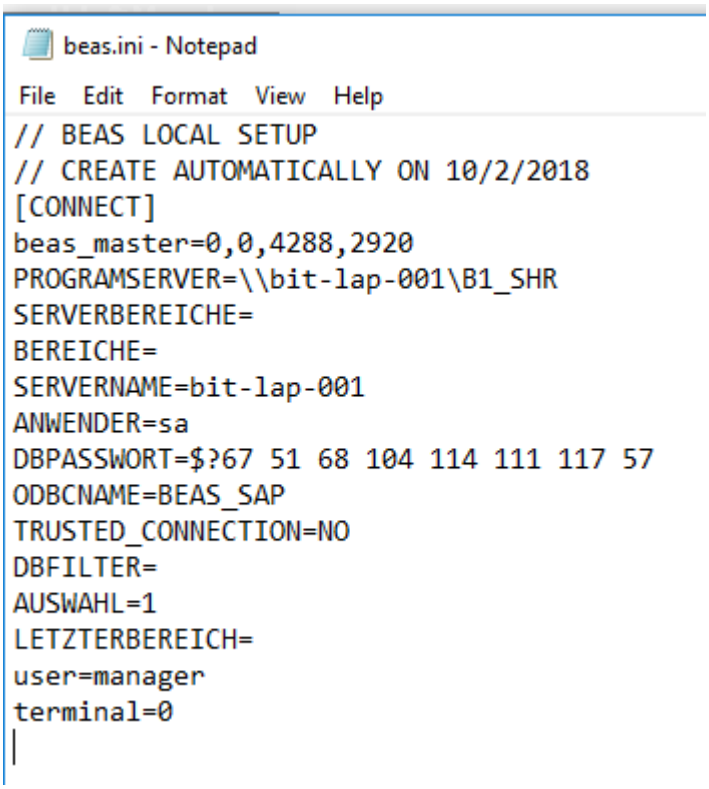
2.4.2 beas.ini

The parameters for database connection and the start-up configuration of Beas are defined in the beas.ini file. All parameters to define in Beas are accessible in the Configuration Wizard, but to connect to this database, specific information are required to be read from a file. The system can read information directly from this file.

During the first start-up of Beas, the system is trying to locate the beas.ini file to access starting parameters. If it does not exist, the system checks the server and copies the file on the local computer. The parameters are only to be defined at first start-up when the file does not exist in the system.

PATH: C:\\Windows\ProgramData\beas

© 2026 Boyum IT Solutions A/S



Modify parameters of beas.ini with beas.exe

Additionally to the beas.ini, we can save parameters in the Command line arguments of beas.exe For example in the beas.ini we can set Beas to start in Terminal mode, service mode etc. But in the command line arguments we can send parameters, as well. ***See*** Beas Access parameters.

Follow the procedure below to modify parameters of beas.ini with the beas.exe file:

1. Run beas.exe from **C:\\Program Files (x86)\beas software\beas** ***See*** image in beas standalone options
2. Click the "Change Company" button and the screen is extended with Global Settings on the right.
3. The editable fields in the screen are information called from beas.ini

Here you can modify standard parameters in beas.ini directly.

beas.ini parameters

Parameter	Description
StartDelay + DebugToFile:	These parameters have to be modified manually in the file. (*Beas version 9.3 PL1 HF 5* or above)

© 2026 Boyum IT Solutions A/S

Parameter	Description
StartDelay	(0..X) – default 0; This parameter will delay SAP connection process. Due to an increased number of SAP add-ons, users may experience problem when starting SAP: too many add ons are started simultaneously. To solve the situation, this parameter delays Beas (e.g. with 5s) in the start-up process. Consequently, Beas will wait for the other add-ons to initiate and will start once these add-ons have finished loading.
MenuDelay	Delay the menu load process. Beas establishes connection with SAP and stays waiting for a defined time before loading the Menu. This parameter only affects SAP Business One – in Beas standalone mode, this parameter is ignored.
DebugToFile	(Y/N) – default NO; This parameter assists the process of opening the program; everything created in the debug is saved in the file that is stored in the Temp folder: **%temp%/beas/beas.log**
DIRECTSERVER	(YES/NO) Default NO: Start Beas in server mode. Internally the system is executing the following script: `setglobal=withoutservice=true~r~nsystemwindow=opennewwindow=system_server_start.psr=s_parm1:local~r~nopennewwindow=webprogram_browse.psr`
CommandString	Script located in this parameter will be executed at the start-up process.
QualityControl	
DIAPI	(TRUE/FALSE) Default value = True. By default the system uses the parameter to ignore DI API Connection.
Database Parameters to connect	
GetCompanyListBy	Configure to load company list by: Load Company list by DI-API (default) or by query to SBO-COMMON database. If Beas (Standalone) returns an empty Company database list and an error message, follow this workaround solution: • Go to C:\ProgramData\beas

© 2026 Boyum IT Solutions A/S

Parameter	Description
	• open file - beas.ini • insert this line between [CONNECT] ..... []: GetCompanyListBy=db
SERVERNAME	The Database Server to connect
DATABASE	Database name
DIAPISQLDRIVER	Define the specific SQL or HANA driver to connect to retrieve the Company list in the login screen, when connection type is set to "DI-API". When the parameter to retrieve the Company list is set to "db", this parameter is ignored.
ANWENDER	Database User
DBPASSWORT	Database password
TRUSTED_CONNECTION	(YES/NO): Check box option. Default value = NO; Apply database trusted connection.
DBFILTER	Filter to show only database defined in this list
BUTTON_FIX_WIDTH	To apply fix width to buttons
WorkWith SupportVersions	(Y/N) Default value = N. Enable or disable the functionality to work with support versions. In versions older than 2025.02, the system always allowed to work with support versions. Note: When the value of this flag is "Y", ensure that the parameter **SAP > General Settings > Services tab > "Enable Default connection String"** is active.

2.5 BETA Version

Beas publishes BETA-Versions before releasing a new version.
A BETA-version has no restrictions, but a note is issued at program start informing the user that this is a BETA-Version.

The BETA-Version may be used only for tests and presentation purposes, not for productive use.
Beas offers no warranty for BETA versions.

(beas9.0-000-003-002)

© 2026 Boyum IT Solutions A/S

2.6 What's New Window

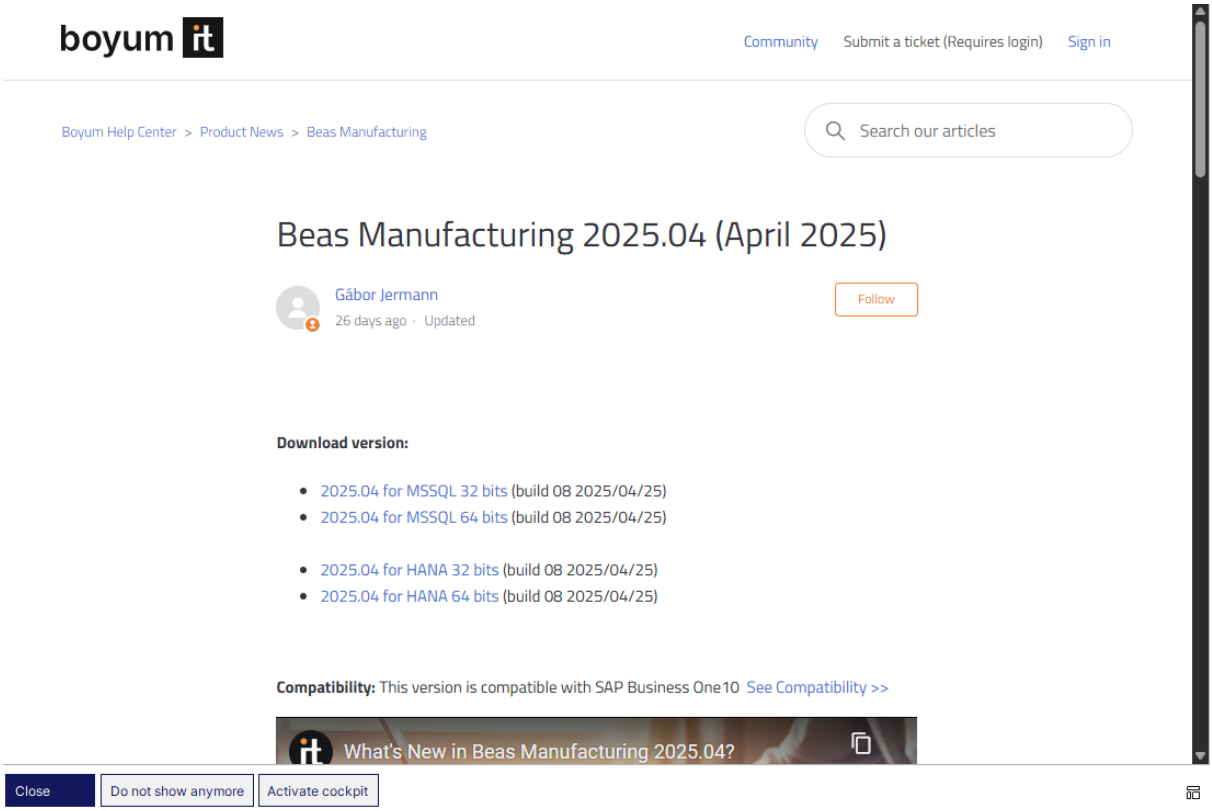
This window is opened every time a user logs into Beas. *(Beas 2025.06)*

It shows the new features implemented by the actual, downloaded version.

In case you wish this information window not to pop up upon each login, click 'Do not show anymore'.

Activate Cockpit button: Activate the Beas Production Cockpit for the current user. Pressing the button automatically assigns the cockpit for the user in the Beas User Extended management window by setting the field Cockpit "Type" to Production.

See more about Cockpit setup and activation.



2.7 Production Cockpit

The Production Cockpit window is a centralized interface that displays an overview of the current production status and allows users to quickly access key information, track the status of work orders, and efficiently manage their daily tasks. *(Beas 2025.06)*

© 2026 Boyum IT Solutions A/S

What can you do with the Production Cockpit?

- View the current status of all your Work Orders (WOs): new, delayed, pending, or missing materials.
- Check which resources are in use, available, or interrupted.
- Monitor real-time production progress, with detailed information by operation.
- Access the most up-to-date list of material requirements.

Immediate benefits:

- Instant Information: Quickly access real-time work order status, eliminating time-consuming searches.
- Efficient Planning: Easily identify and prioritize the latest orders, enhancing production scheduling.
- Timely Issue Resolution: Swiftly spot delays and material conflicts, enabling prompt decision-making.
- Streamlined Navigation: Directly access main tasks, reducing menu navigation for faster actions.

Initial setup:

1. Run the Beas Service.

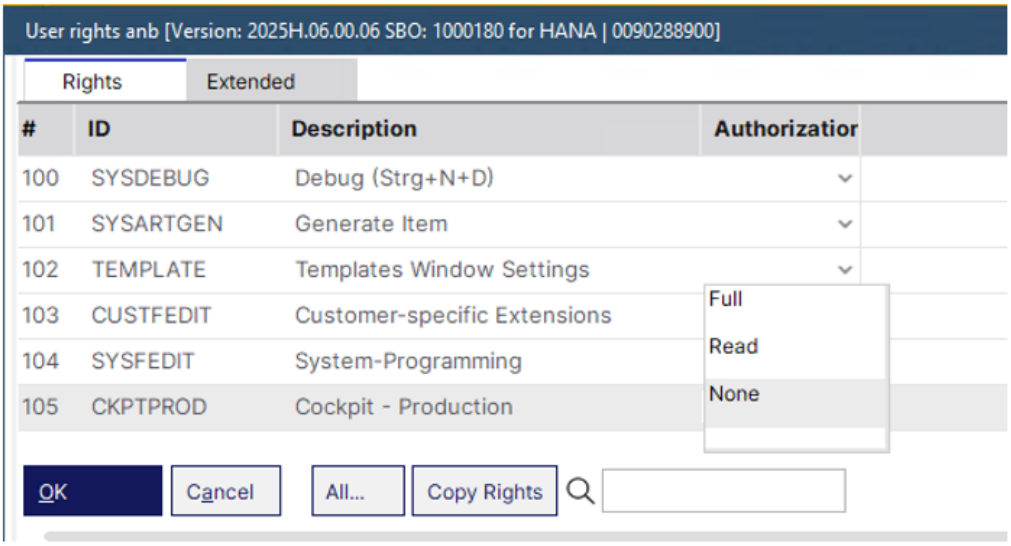
2. Activate "Calculate Material requirements for Cockpit" planned activity in the Beas Manage Server. **IMPORTANT:** Make sure that Beas Service is running; planned activities do not run without the Beas Service.

3. Edit and customize this planned activity to your needs: running the calculation on the selected days of the week, with the custom frequency (e.g. hourly).
Default setting: Daily, Monday to Sunday, from 8:00AM to 11:00PM on an hourly basis.

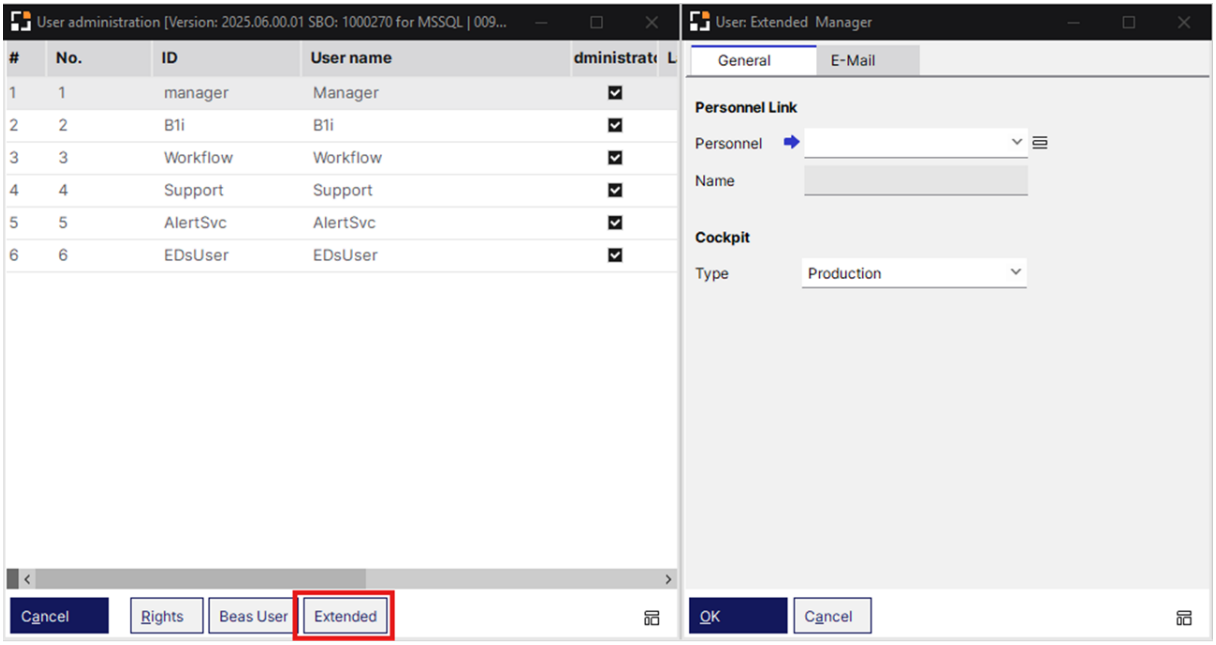
Rights activation for the Beas user:

1. Rights for the Production Cockpit must be set up by the system administrator in the User administration rights extended option:

© 2026 Boyum IT Solutions A/S



2. When user rights have been set up, the cockpit window can automatically be activated for the user when clicking the "Activate Cockpit" button in the "What's new window" upon Beas startup. Or the System administrator can change the Cockpit Type manually in the User administration extended setting:



Open the Production Cockpit:

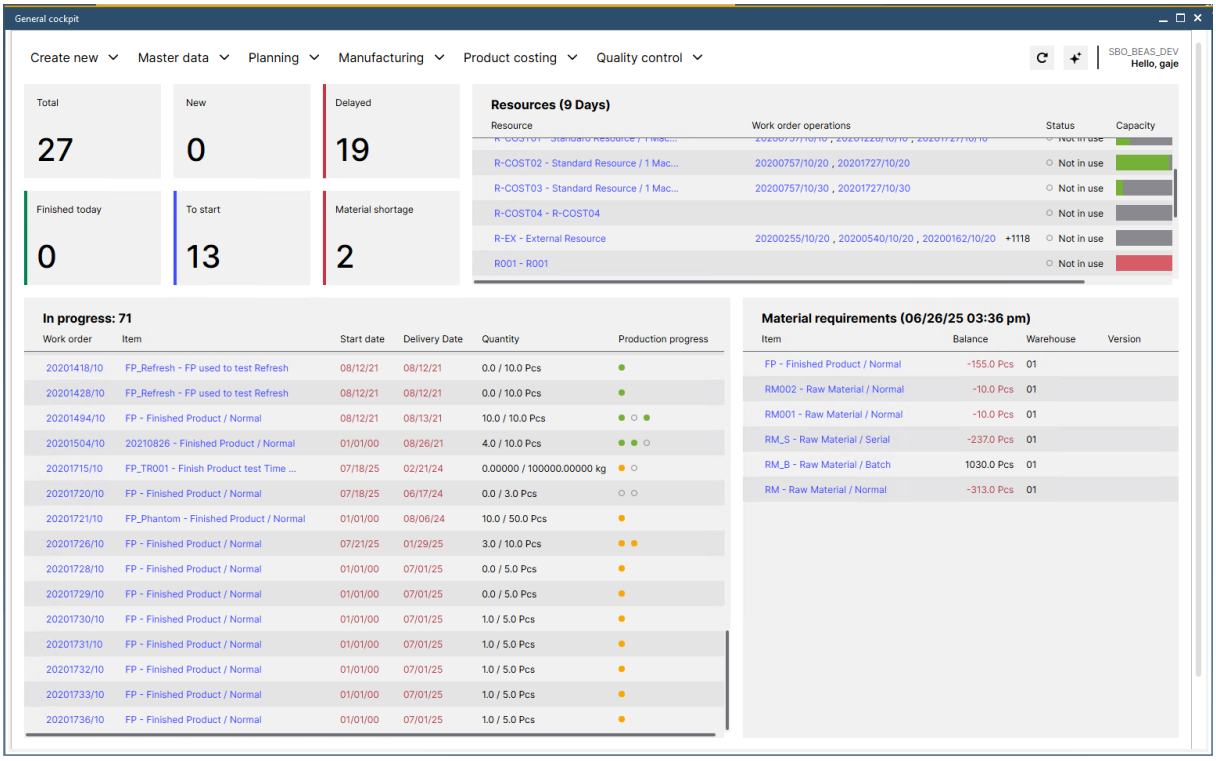
PATH:

Beas: Tools > Cockpit > Production

OR

SAP B1: Tools > Cockpit > Production

© 2026 Boyum IT Solutions A/S



Window: general_cockpit.psr

Top menu

Menu (drop-down) entry	Description
Create new	Create a new: - Work order - Item (generate new item) - Time receipt
Master data	Open related master data: - Item (Item report window) - Resources - Personnel
Planning	Open planning modules: - MRP (material requirements planning) - Resource scheduling - APS (Advanced planning and scheduling)
Manufacturing	Open: - Work orders

© 2026 Boyum IT Solutions A/S

Menu (drop-down) entry	Description
	- Time receipt administration
Product costing	Open calculation related functions: - Calculation schema - Batch calculation - Post calculation - Cost elements
Quality Control	Open QC modules: - Quality Control orders - Inspection plans
	Click this button to refresh cockpit information.
	Click this button to access the Beas AI Assistant.

Filter buttons

The total amount of WOs grouped in different statuses. You can open the WOs list filtered by one of these statuses.

Total:	**New:**	**Delayed:**
The number under the filter represents the count of all work orders. Click the filter to open the Work orders window displaying all WOs.	The number under the filter represents the count of new work orders. Click the filter to open the Work orders window displaying only the new WOs.	The number under the filter represents the count of delayed work orders. Click the filter to open the Work orders window displaying only the delayed WOs.
Finished today:	**To start:**	**Material shortage:**
The number under the filter represents the count of work orders finished today. Click the filter to open the Work orders window displaying only the WOs finished today.	The number under the filter represents the count of work orders that have not been started yet. Click the filter to open the Work orders window displaying the list of WOs that need to be started.	The number under the filter represents the count delayed work orders with material shortage. Click the filter to open the Work orders window displaying a list of WOs with material shortage.

© 2026 Boyum IT Solutions A/S

Resources (X days)

A table with all the resources. It shows a list of WO operations that are using these resources (in a predefined period of days) and if it is currently not in use, working or interrupted.

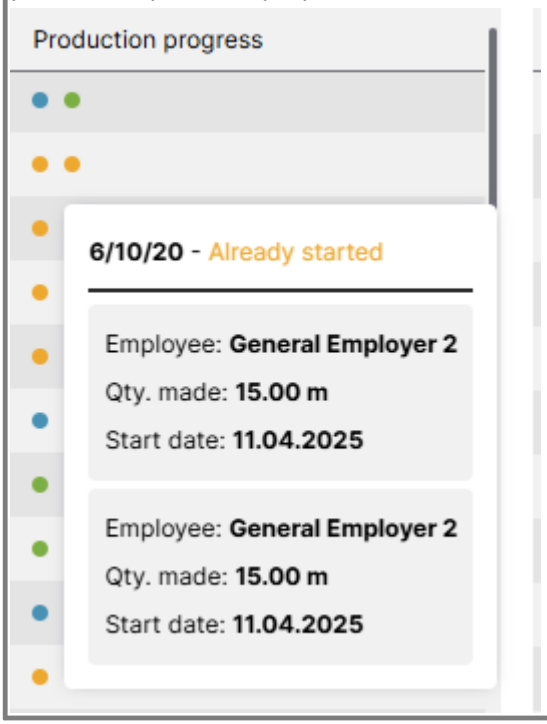
Resource	Name of the used resource. Sorting by this field is supported. Sorting by this field is supported.
Work order operations	The linked operation sequences listed, separated with a comma. Sorting by this field is supported.
Status	The status of the resource in the WO operation: • *Not in use* (gray) • *In progress* (green) • *Interrupted* (red) Sorting by this field is supported.
Capacity	Displays planned capacity in gray (according to resource scheduling) and currently dispatched capacity in green. The covered time period in utilization column is set up in: **Configuration wizard > Production > Display > Structure view > Dispatching index: number of days to be considered.**

In progress: XX

The table shows all the opened work orders that have at least one operation already started or done. When scrolling to the end of the first 30 entries of the list, the system loads the next 30 entries.

Work order	Linked work order. Sorting by this field is supported.
Item	Linked item. Sorting by this field is supported.
Start date	Start date of the work order. Sorting by this field is available.
Delivery date	Delivery date of the work order. Sorting by this field is available.
Quantity	Work order quantity
Production progress	Shows the status of production progress of each operational sequence with a colored dot: - GRAY: Not started - YELLOW: Already started - BLUE: In progress - GREEN: Completed

© 2026 Boyum IT Solutions A/S

Work order	Linked work order. Sorting by this field is supported.
	Hovering over the colored dots (representing the individual operation sequences of a work order) opens a pop-up screen with information on the date, the Start date, the clocked-in employee and the quantity produced by that employee: 

Material requirements: (dd.mm.yyyy hh:mm)

A table with the last calculated material requirements list. The dd.mm.yyyy hh:mm information shows the exact time of the last calculation for material requirements.

Item	Linked item. Sorting by this field is supported.
Balance	Total balance of stock for all work orders. Sorting by this field is supported.
Warehouse	Warehouse code. Sorting by this field is supported.
Version	Item Version number. Sorting by this field is supported.

© 2026 Boyum IT Solutions A/S

3 Administration

Here you can specify system setup and system parameters.

Change Company
System Initialization
Setup
Data Integration Hub
Utility programs
License
Add-Ons
Events

3.1 System Initialization

Use the system initialization functions to customize all the required areas and define the default settings.
General settings
Document settings
Configuration Wizard
Station Settings Wizard
Factory Calendar
Report settings

3.1.1 General settings

The SAP Business One – window "General settings" has been extended.
There are certain restrictions which need to be taken into account.

See the following chapters:

BP
Services
View
Fonts and background
Stock

© 2026 Boyum IT Solutions A/S

3.1.1.1 BP

Enable Approval Procedures	Approval procedures are not supported by Beas.
Enable Approval Procedures in DI	By enabling this option, drafted documents are always created. NOTE: Do not enable this option when working with Beas

3.1.1.2 Services

Beas provides an extended message system. The following settings are considered:

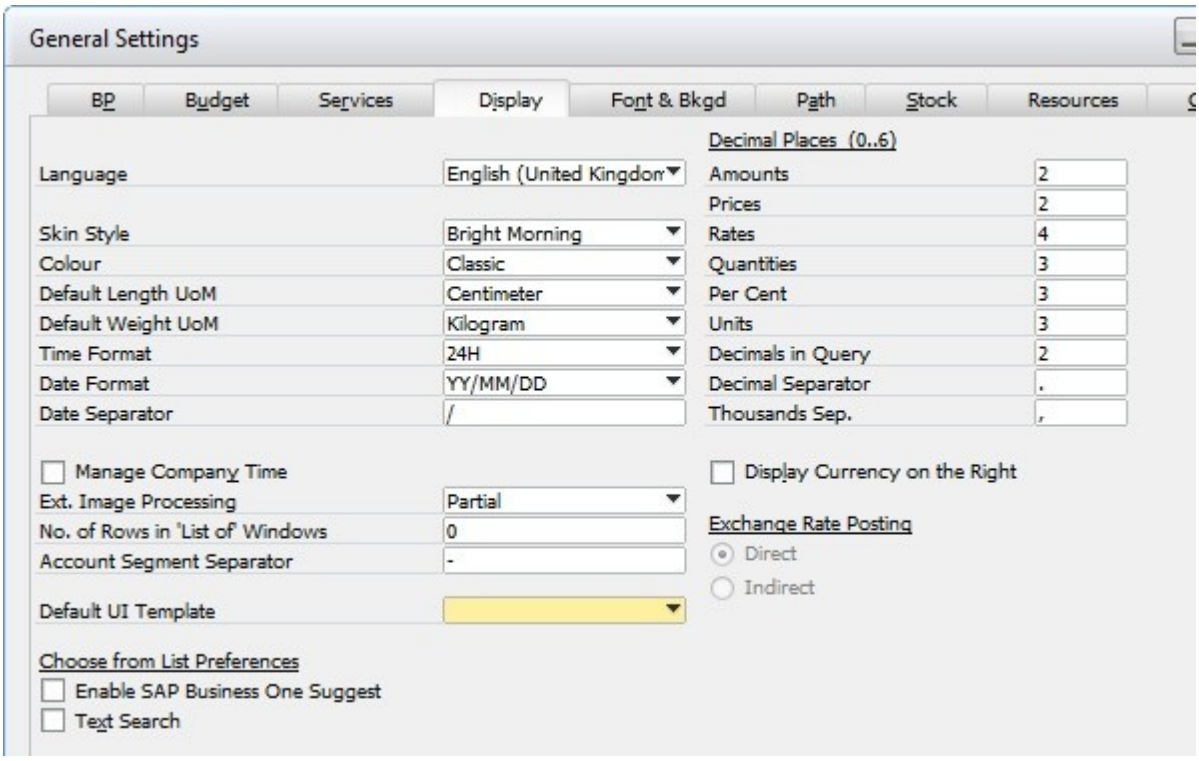
At each logon

Send alert for activities scheduled for today	No support
Display inbox when new message arrives	If active, the Beas – message system is opened if a message is received. ***See*** messages

Update messages (minutes)	Interval is considered by Beas – message system. After data check, the message window is not opened immediately. It will appear as set here e.g. 1 or 5 minutes following the data check. Note: The lowest minimum value is 1. ***See*** messages
Screen locking time (Min.)	Only supported within SAP Business One – environment. If Beas is started without SAP Business One this option is ignored. Workaround: use Windows screen saver.

© 2026 Boyum IT Solutions A/S

3.1.1.3 Display



Window beasgui_sbo.psr

Beas does not support every setting of SAP Business One.

You can find all display-related information in **Administration > System Initialization > General Settings > Display.**

Setting	Description
Language	Beas does not support all SAP Business One languages. ***See*** the language table of Beas to set up which language is to be used. ***See*** Languages For document printing there are extended features available. ***See*** Date- and time format
Skin Style	⊟ Define the Skin Style Define Skinstyle for SAP Business One and Beas if Beas started inside SAP Business One If you want to define the skin style for Beas standalone, use : Skin style Configuration wizard **Beas inside SAP Business One**

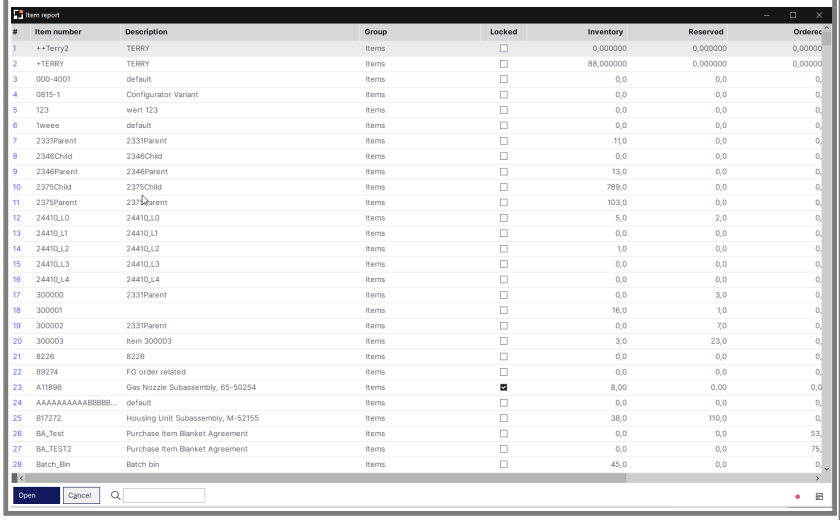
© 2026 Boyum IT Solutions A/S

Beas will always use the Skin style (Design) which was defined in SAP Business One General settings.
All Skin styles are supported (*SAP 10.0, Beas 2020.03*)

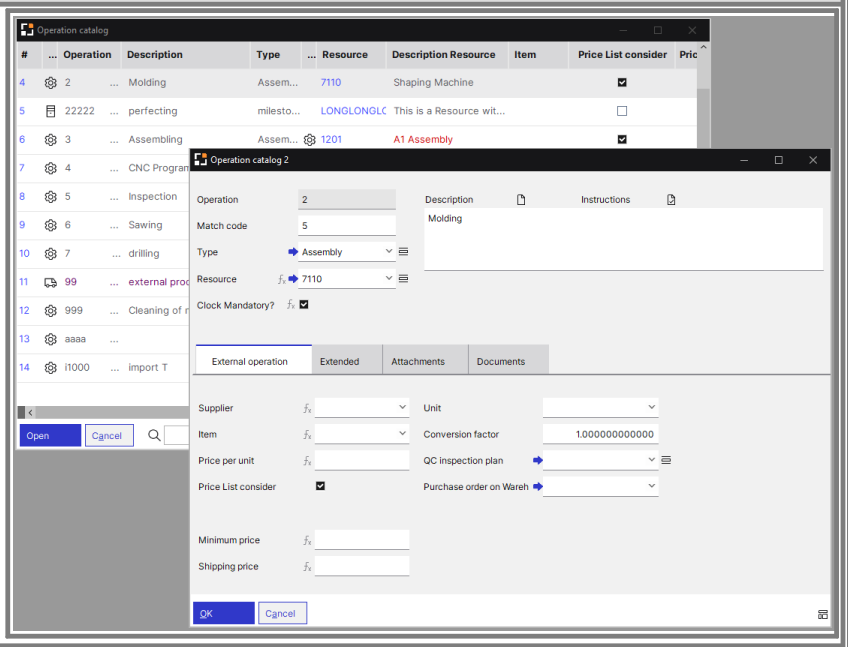
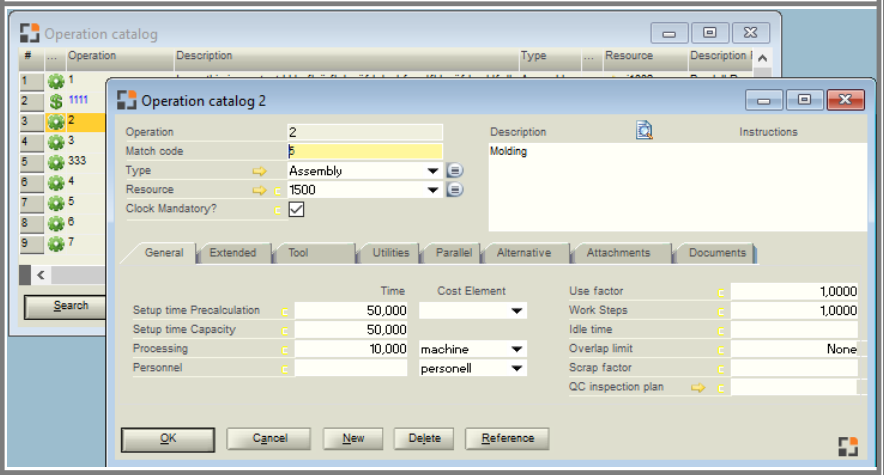
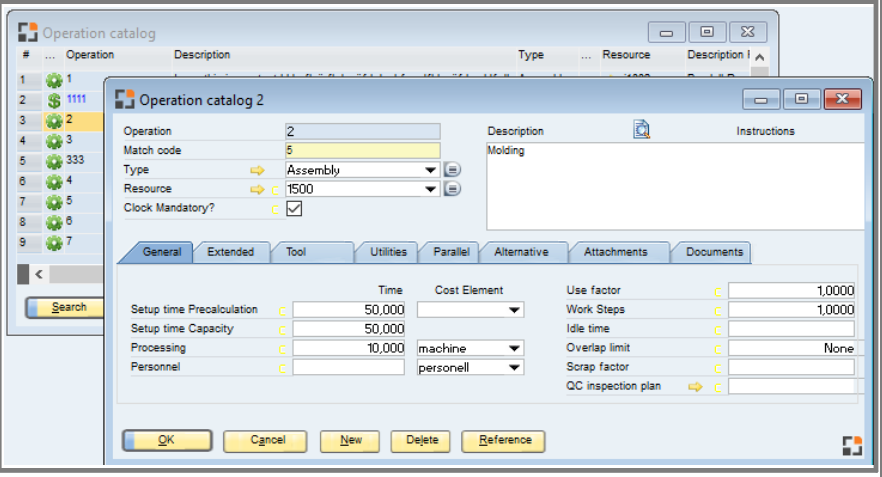
Beas outside SAP Business One

In the Configuration wizard you can choose one of all available skin styles of MSSQL and HANA Version.

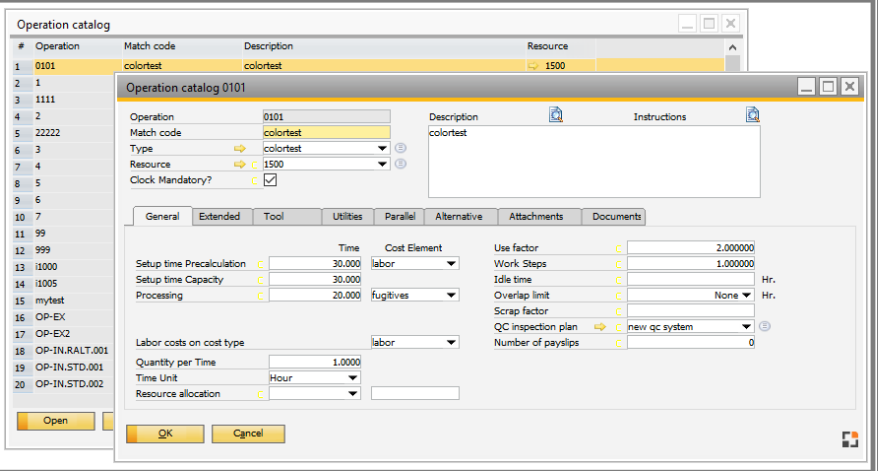
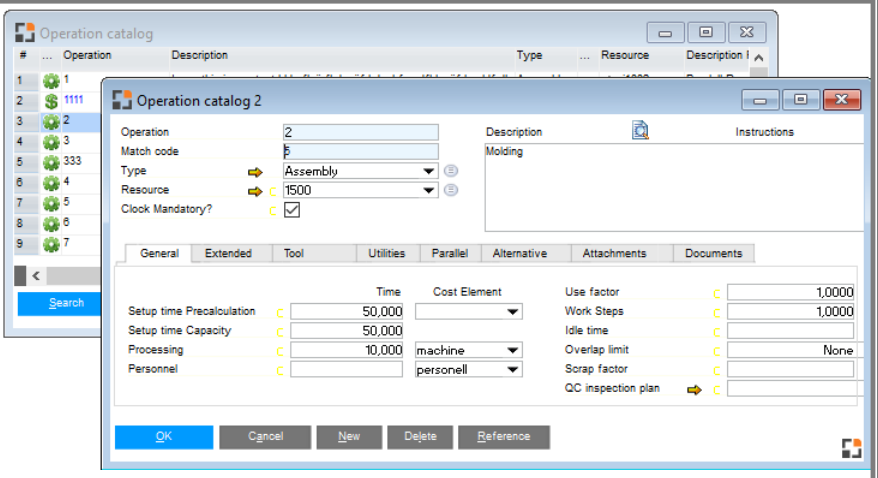
Available Skin styles:

Style	Example Beas Standalone
Boyum Style Type	Select the type of Boyum Theme: Efficiency Mode (regular space): - setting is active by default. Browse windows show more lines, edit windows feature fields closer together. Reduced column width and tab height. *Beas 2025.04*  Comfort Mode (wide space - original style): Original, wide-spaced Boyum Theme Style officially available as of version 2023.09.

© 2026 Boyum IT Solutions A/S

Style	Example Beas Standalone
	
Conventional	
SAP Signature	

© 2026 Boyum IT Solutions A/S

Style	Example Beas Standalone
Golden Thread	
Fiori	

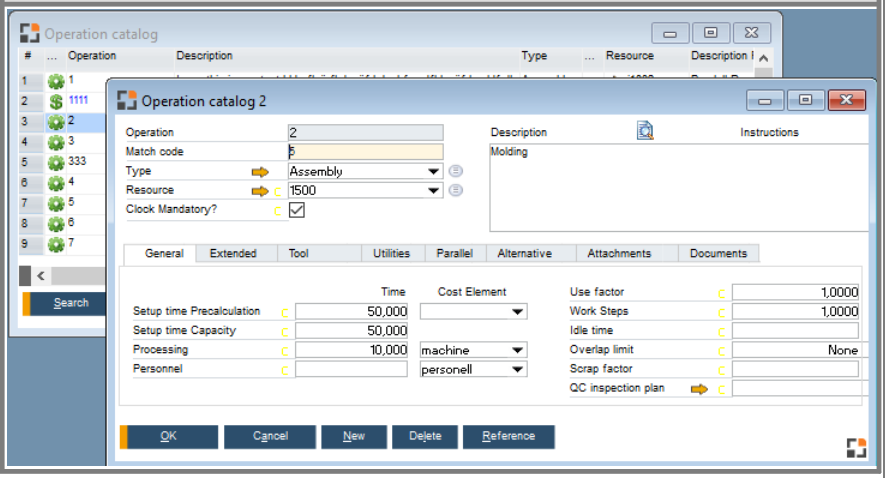
IMPORTANT:

If you change the Local client Display settings to > 100% in Fiori style, buttons disappear in all Beas windows.

This is a known limitation from SAP side and affects all apps. Due to the change in the internal zoom factor of SAP, the position calculations cause wrong results.

Workaround: Go to Station settings > Hardware tab and perform the necessary adjustments for Button Position Correction.

© 2026 Boyum IT Solutions A/S

Style	Example Beas Standalone
Belize Deep	

Note:

Outside SAP Business One Beas cannot use the framework of SAP Business One. The Fiori Dashboard and B1UP Dashboard are not available.

Beas only uses the color schema.

Icons are not the same as in SAP Business One

Beas uses its own User interface and not SAP Business One components.

See Skin style Configuration wizard

Color	Currently not supported.
Default Length UoM	Currently not supported.
Default LWeight UoM	Currently not supported.
Time Format	Supported. **Attention:** Beas does not support time fields, only date time fields. If a date time field has the focus, Beas always uses the Windows Regional setting.
Date Format	Supported settings:

© 2026 Boyum IT Solutions A/S

	Internal Dap Date Id: 1 = dd/mm/yyyy 2 = mm/dd/yy 3 = mm/dd/yyyy 4 = yyyy/mm/dd 5 = dd/mmmm/yyyy >5 = dd/mm/yy dd = Day of month with 2 digits mm = Month 01 – 12 mmmm = January/February yy = Year 2 digits yyyyy = Year 4 digits Attention: if a date field has the focus, beas always uses the Windows regional settings.
Date Separator	Supported. **Attention:** if a date field has the focus, Beas always uses the Windows regional settings.
No. of Character in Month	If you define "DD/Month/YYYY", you can define count of Character. **Attention:** Beas supports 3 Characters or complete name of Month. 4 or other count of Characters is not supported.
Ext. Image Processing	Not supported.
No. of Rows in "List of" Windows	Not supported. You can set this in Configuration Wizard – System.
Account segment separator	Account segment separator is not supported in Beas – view. The "-" (hyphen) is always used as a separator.
Default UI Template	Not supported.

© 2026 Boyum IT Solutions A/S

Choose from List Preferences

Setting	Description
Enable SAP Business One Suggest	Not supported
Text search	Not supported. ***See*** Configuration Wizard – System

Setting	Description
Decimal places (0...6)	Beas supports own units of measure. The number of decimals per unit can be set up separately. "quantity" units are affected but this only refers to display, not to rounding. Beas always works with 6 digits. All units except quantities are displayed with the number of digits set up in SAP Business One. It is always calculated with 6 digits. All values, transferred to SAP Business One are rounded by SAP Business One – rules. ***See*** units of measure
Decimal Separator	Option not supported by Beas. Windows regional settings are used. For document printing the separator can be set up per country. ***See*** Date- and time format
Thousands Sep.	Thousands separator. Option not supported. ***See*** "separators".
Display currency on the right side	Option not supported in Beas – views.
Exchange Rate Posting	Supported. Determines the display of exchange rates in SAP Business One. The exchange rate values are always saved in the system according to the direct rate. The indirect rate is for display use only.

© 2026 Boyum IT Solutions A/S

	This setting affects the calculation that you use to enter the exchange rates in the "Exchange Rates and Indexes" window. • Select "Direct" to display the exchange rate according to the local currency (that is, the local currency price of one unit of a foreign currency). • Select "Indirect" to display the exchange rate according to the foreign currency (that is, the foreign currency price of one unit of a local currency).
Search Preferences Enable Case Sensitive Search	Only Hana **SAP Business One windows:** Select this checkbox to take letter cases into account for all search criteria. For example, if you specify "c01" as the selection criterion, the system will search only for "c01", but not "C01". For more information, **Beas Service Layer:** Does not support this. It is always disabled. **Beas WEB APPs 2.1:** Use Beas Service Layer. It is always disabled. **Beas Desktop front end:** Ignore flag. It is always disabled. Most fields ignore Case sensitive. But not all fields.

3.1.1.4 Font and background

Notes on settings

Font	Selected fonts are supported. Only scripts "from left to write" are supported. Mirrored screens are not supported.
Font size	Changing fonts does not only change the font size. Also the width of screens is adapted. Beas renders the screens with fix augmentation factors. If an other font size then default is selected, rounding differences may occur which looks like dead pixels. For example, table frames may be drawn incorrectly.
Background	Not supported.
Picture view	Not supported.

© 2026 Boyum IT Solutions A/S

3.1.1.5 Inventory

Notes on settings:

Serial numbers and batches

Management method	Only the option "On Every Transaction" is supported. Important: If selecting "only at issue", many Beas – modules may not be working correctly, as bin location management, reservation system etc.
Unique serial numbers by	Only "serial number" is supported. Important: If selecting something else, many Beas – modules may not be working correctly, as bin location management, reservation system etc.
Display inactive items in ... reports	Setting affects Beas – Item report and Item structure not in other selection lists. *Beas9.1-004-055-000*

Default item values

If an item is created in SAP Business One, the settings are supported. If an item is created in Beas, a copy of an item is created in general. Template items can be used as default.

See

Configuration wizard – master data – item

Generate items

Create new

3.1.2 Document settings

Additional notes on SAP Business One – documents settings.

© 2026 Boyum IT Solutions A/S

3.1.2.1 General

Response to release/receipt of inventory outside defined range	Supported. Note: Beas works using SAP Business One – Standard-Transactions, negative effect is possible: for example if a minimum stock is defined, and you try to correct the inventory to 0 during stocktaking, the process may be blocked due to this setting.
Block negative inventory by	Supported, because Beas works with SAP Business One – Standard-Transactions. Note: Beas requires correct inventory. Many functions like order recommendation, bin location management, batch administration, reservation system etc. can only work correctly if there is no negative stock. Consequently, negative inventory needs to be blocked.
Use warehouse address	Function supported.
Inventory control by warehouse	Function supported.

3.1.2.2 Per document

Production area

Document	Use for component transactions. All options are supported. This option can also be set up in the Configuration wizard. ***See***: Valuation and posting the assembly – account determination Concept Work in progress
Booking schema for production	Option is not supported. Beas allows the adaptation of journal entries in the calculations schema and via script. ***See*** Account determination Concept Work in progress

© 2026 Boyum IT Solutions A/S

3.1.3 Configuration Wizard

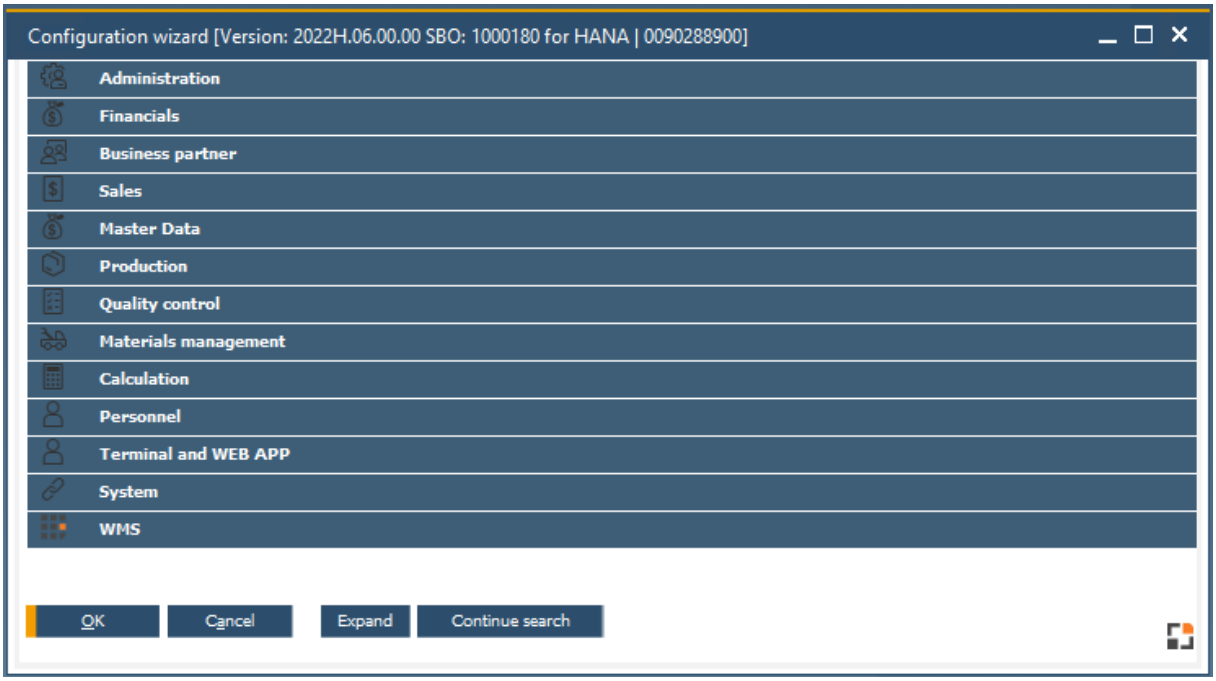
Configuration wizard General information

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Terminal and WEB APPS
Business Performance
System
WMS

Beas includes a Configuration Wizard. This greatly simplifies the commissioning of SAP Business One and Beas.
The wizard helps project managers to configure the parameters in SAP Business One and Beas.

PATH: Adminsitration > System Initialization > Configuration wizard.

© 2026 Boyum IT Solutions A/S



Window system_option_struktur.psr

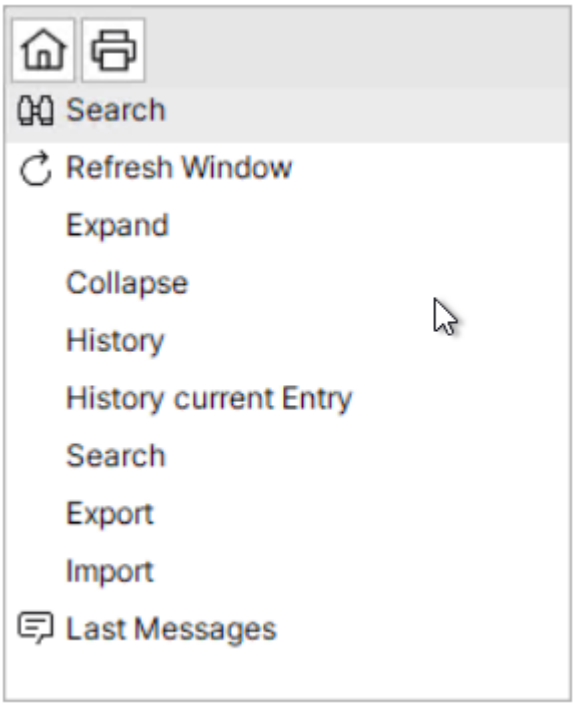
The Setup Wizard is divided into different sub-menu items. Once each sub-menu item has been processed using the wizard, Beas is fully configured and ready for use.

The Configuration wizard uses flags to show which parameters still have to be configured. There are three different flags, and a flag is set to red by default. Once you specify settings, you must manually set the flag to orange or green.

- **Red** flag: Settings not yet configured.
- **orange** flag: Settings partially configured. Further settings must still be configured.
- **Green** flag: Settings complete.

Functions

© 2026 Boyum IT Solutions A/S



Function	Description
Refresh Window	Refresh the Configuration wizard to reflect latest changes
Expand	Expand the setting groups to see all parameters within.
Collapse	Collapse setting groups.
History	Select this option to open the Change log displaying all changes.
History current Entry	Select this option to open the Change log displaying changes for the current entry. Note: changes are also logged on import.
Search	The settings text and help text is searched. **Search:** New search with a new keyword. **Continue search**: Resume searching with the same keyword from last position.
Export / Import	Import / export the entered settings, which then are stored in the customer-specific project directory. Save the Setup.ini file there. This file can then be imported later, therefore these settings only have to be configured once.
Info	Click this button to store a comment to each setting. See the blue bar at the bottom of the Setup Wizard for this.
Last Messages	Last messages

© 2026 Boyum IT Solutions A/S

- Each parameter is described in the last line.
- Complex parameters have extended documentation which is displayed directly. Some descriptions are dependent on the stored option.
- To avoid incorrect settings, warning messages are displayed where applicable.
- Unnecessary settings are automatically hidden.
- Add-ons and customer-specific extensions can also be integrated into the Setup Wizard. For example: WMS.
- Print preview function. For this, you have the option of using the symbol in the upper menu bar or the second option of right-clicking and selecting the "Preview" option.

3.1.3.1 Administration

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Business Performance
System

Support

The contact address of the company supported the installation of Beas is entered here.
This address is displayed under HELP / SUPPORT and also under HELP / INFO.

Company Details

This section describes the configuration options for the Configuration Wizard in the "Administration" tab. For most settings, Beas accesses proprietary SAP entries. These are populated in the Configuration Wizard and automatically copied to the SAP fields.

Name	Description
Company Name	These are the standard fields in SAP Business One. To enable a complete basic initialization from the Configuration Wizard, these fields were included. Fields that are populated in the Configuration Wizard are automatically copied to the SAP Business One fields.
Street	
Block	
City	

© 2026 Boyum IT Solutions A/S

Zip code	
Web Address	
Country	
Telephone 1	
Telephone 2	
Fax	
E-mail	
Active manager	
Custom Cargo Declaration (only Ukraine customers)	Activate this check box for Custom Cargo Declaration (CCD) module users (only Ukraine and Russian customers). In these databases, SAP converts the field "FreeTxt" of document lines, and saves the information into a "CCD" specific field, named "U_beas_freetxt" instead of saving it in the standard SAP field.
Company Details	Click on the "Edit Company Details" button to configure the company details.
General settings	Click on the "Edit General Settings" button to access the general SAP Business One settings.
User	Click on the "Edit Users" button to access user administration. From there, you can create new users or edit existing users.
Authorizations	Click on the "Edit Authorization" button to configure the authorization. This allows you to edit user rights that were assigned previously. New users cannot be created from here. You must first create a new user using the "Edit User" button.
Sales employees	Click on the "Edit Sales Employees" button to define / edit sales employees.

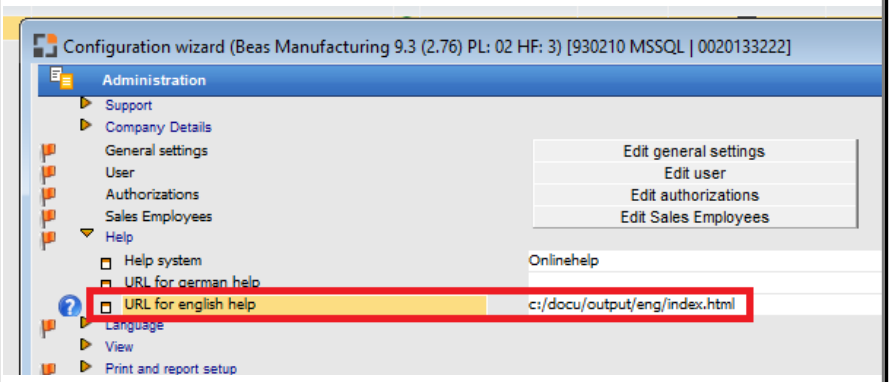
3.1.3.1.1 Help

In this area you can define alternative help system if you cannot use the standard online help.

Parameters

Name	Description
Help system	Context related help is always available: call up by pressing F1. Select here: **Online help:**

© 2026 Boyum IT Solutions A/S

	WEB-files accessed from the Beas-Server or any local server. If you want to use a local server, you must define the address in "URL for English help". **Online help (external browser)** If you set this option, the key F1 will open the documentation outside of Beas in an external browser. The system sends the link of the specific topic to the web page to open it, and the default browser of the system will open the link. **Additional value of this option:** Various external browsers (e.g. Google Chrome) feature integrated translation tools. With this option, the users can turn on their browser-powered translation system, and read the documentation in their own language.
Directory help files	Directory in which the help file is stored. Copy beas_help.exe to this directory. Leaving blank, Beas uses the default setting: **c:\program files\beas software\beas**
URL for English help	URL for English version of help. Requesting an up-to-date OFFLINE version of the English help 1. Ask our support for a current version of the English help in a zip file. 2. You can expand this zip file on a local folder or network folder. In case you need the search function, the server has to be a PHP HTTP Server. 3. Insert the correct folder or IP Address in the Configuration wizard (***see*** image below).  If file based: Insert folder name in URI style / Linux format. ***Example:*** c:\docu **WRONG** c:/docu **CORRECT**

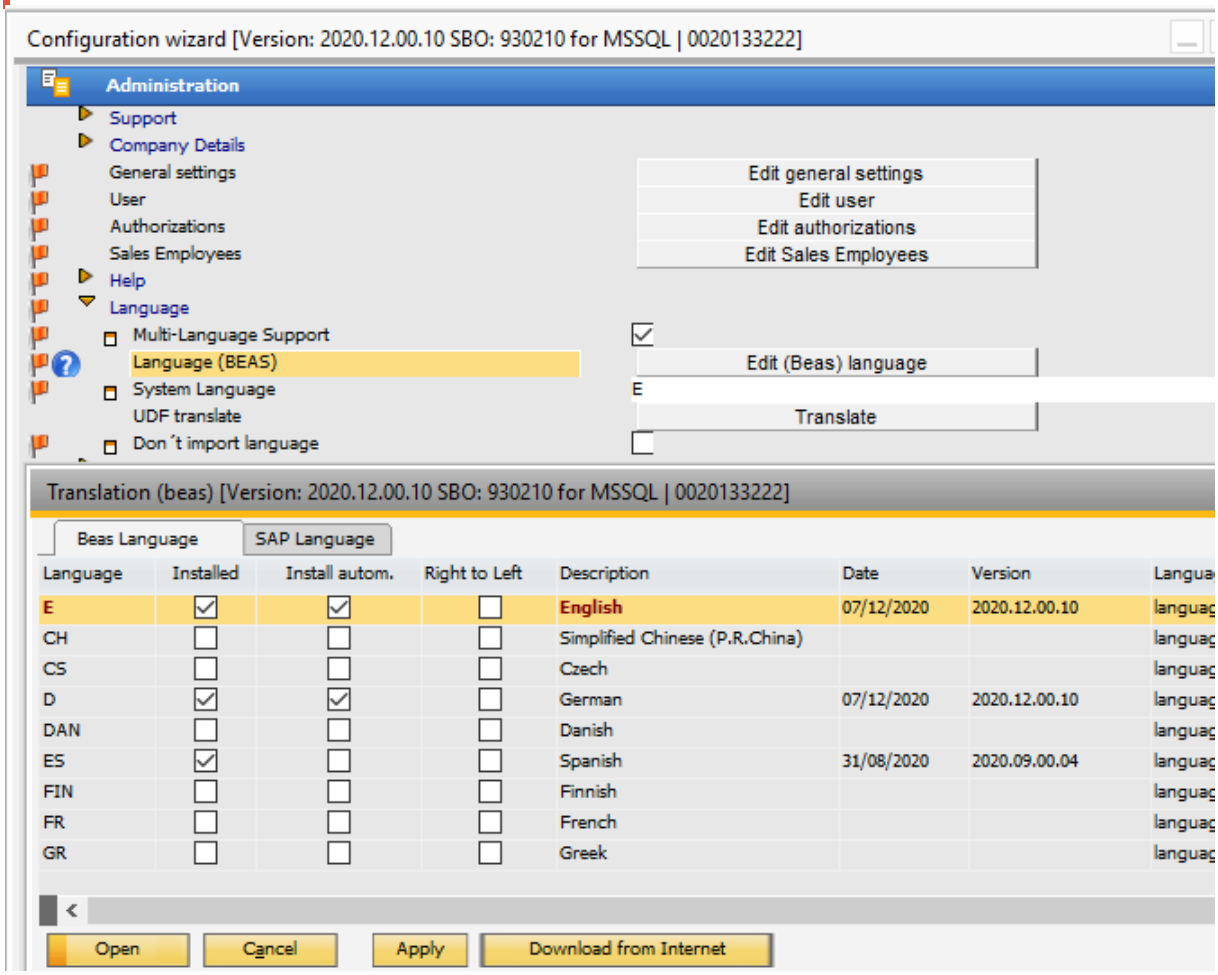
© 2026 Boyum IT Solutions A/S

	4. You can test this directly by pressing F1.

3.1.3.1.2 Language

Language settings

PATH: Administration > System Initialization > Configuration wizard > Administration > Language

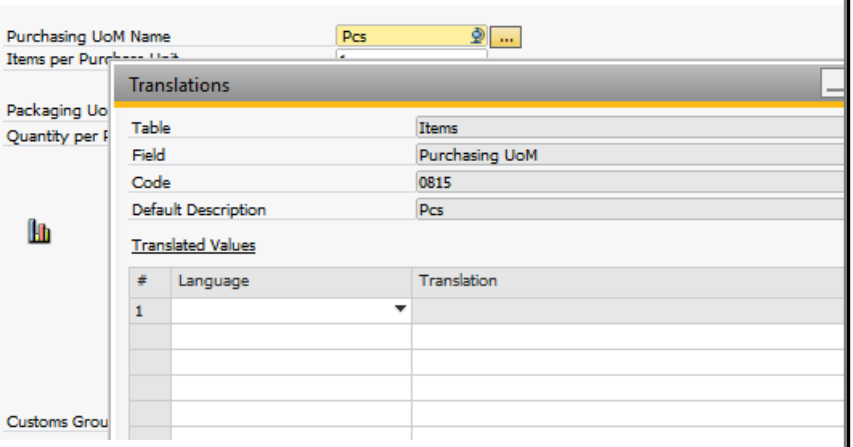


Window system_spr_browse.psr

Parameters

Name	Description
Multi-language support	Activates the multi-language support This setting is identical to SAP B1 >Company Details > Basic Initialization > Multi-Language support. If this is active, you can see an earth symbol in many fields if the field has the focus.

© 2026 Boyum IT Solutions A/S

	By clicking on this icon it is possible to insert text for different languages.  If a sales / purchase document is printed, the system displays the text in the defined language.
Language (Beas)	The window for editing languages in Beas opens when you click on the "Edit Language (BEAS)" button. There you can select all the languages available in Beas.
System Language	Specifies which language will be stored on the system by default. Diverse settings are imported or translated at the moment of installation or upgraded, e.g. absence types, calculation schema, standard reports. After a change of the system, a data check should be performed. ***See*** Data check.
UDF Translate	UDF's are translated into the selected system language. Beas creates UDF in SAP Business One. The language used is the one selected at the initial installation of Beas. ***See*** UDF
Do not import language	Deactivates automatic installation of languages for updates.

3.1.3.1.3 View

View

PATH: Administration > System Initialization > Configuration wizard > Administration > View.

Parameters

Name	Description
Design	Define the Skin style if program is running outside Beas

© 2026 Boyum IT Solutions A/S

The Design can define in SAP Business One – General settings and in here in Configuration wizard.
In Configuration wizard the definition is for the current client (Database). This defines the skin style for using Beas outside SAP Business One.
If you want to change the SAP Skin style, you can define this in in General settings - Display - Skin style

Beas inside SAP Business One

Beas will always use the Skin style (Design) which was defined in SAP Business One General settings.
All Skin styles are supported (*SAP 10.0, Beas 2020.03*)

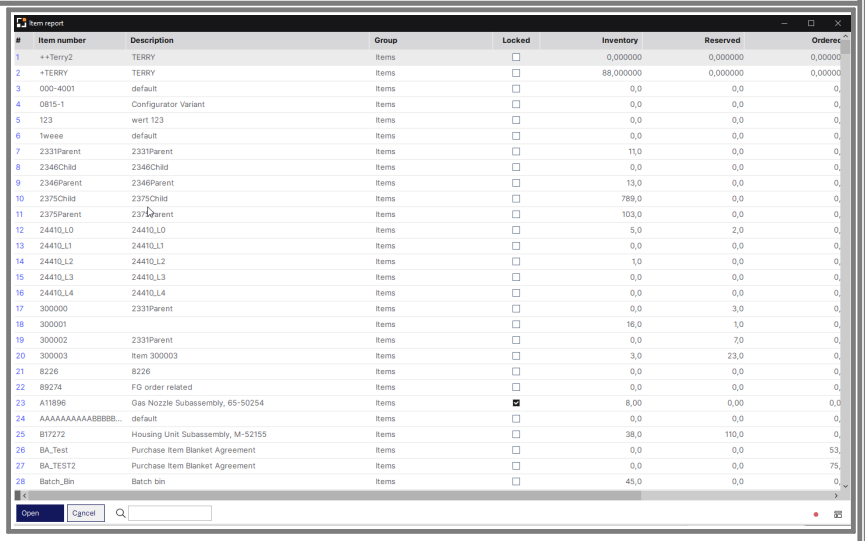
Beas outside SAP Business One

In the Configuration wizard you can choose one of all available skin styles of MSSQL and HANA Version.
Available Skin styles:

Style	Example Beas Standalone
Boyum Style Type	Select the type of Boyum Theme: Efficiency Mode (regular space): - setting is active by default. Browse windows show more lines, edit windows feature fields closer together. Reduced column width and tab height. *Beas 2025.04*

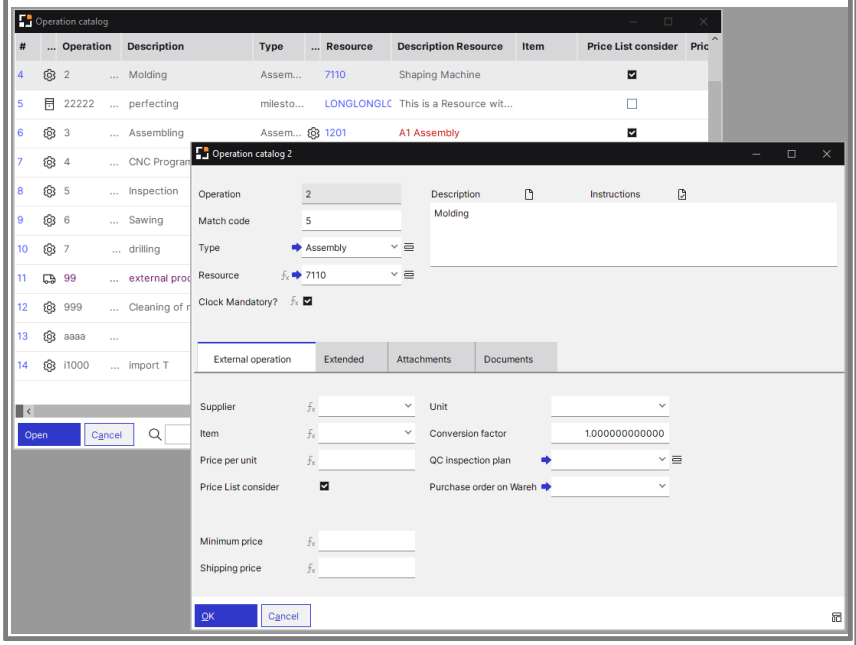
© 2026 Boyum IT Solutions A/S

Style	Example Beas Standalone

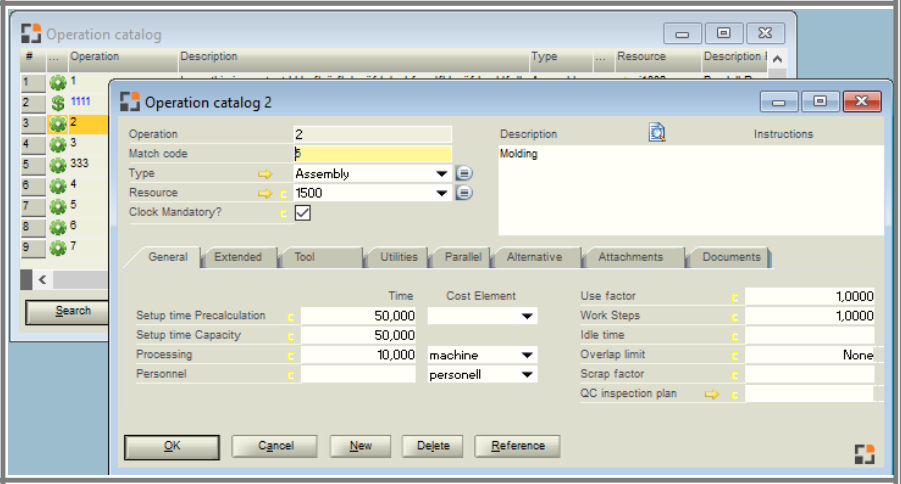
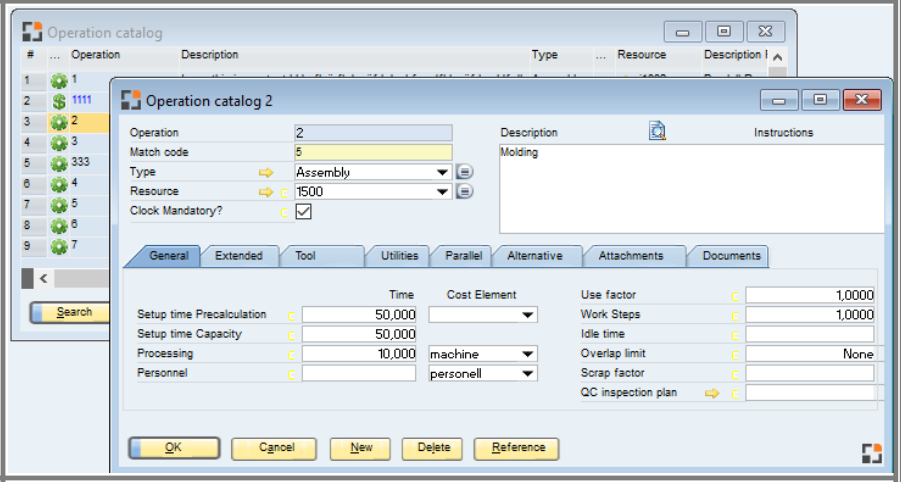
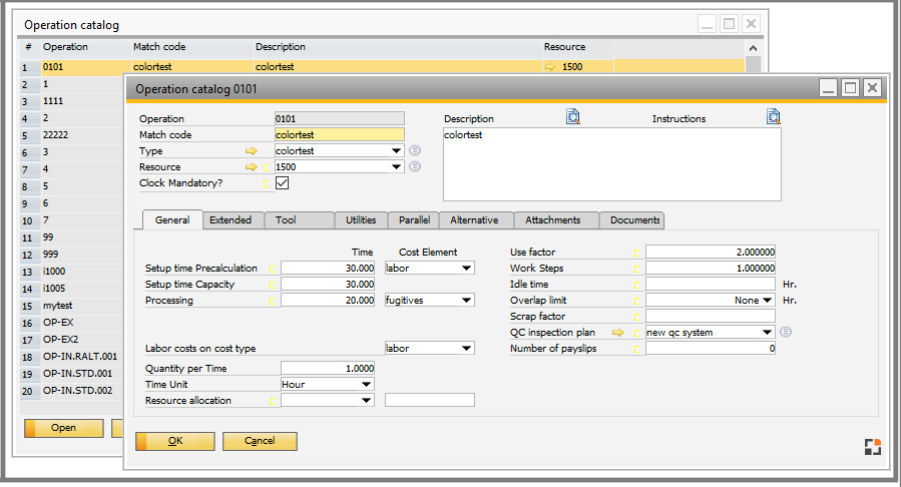


Comfort Mode (wide space - original style):

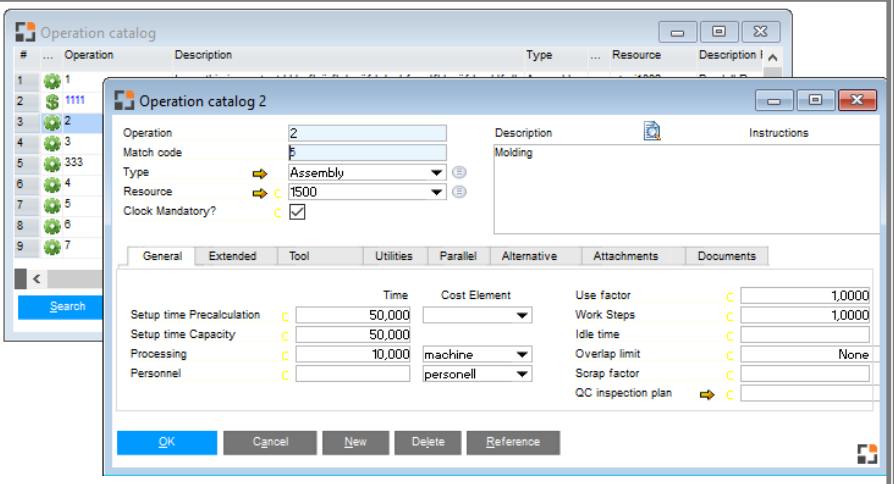
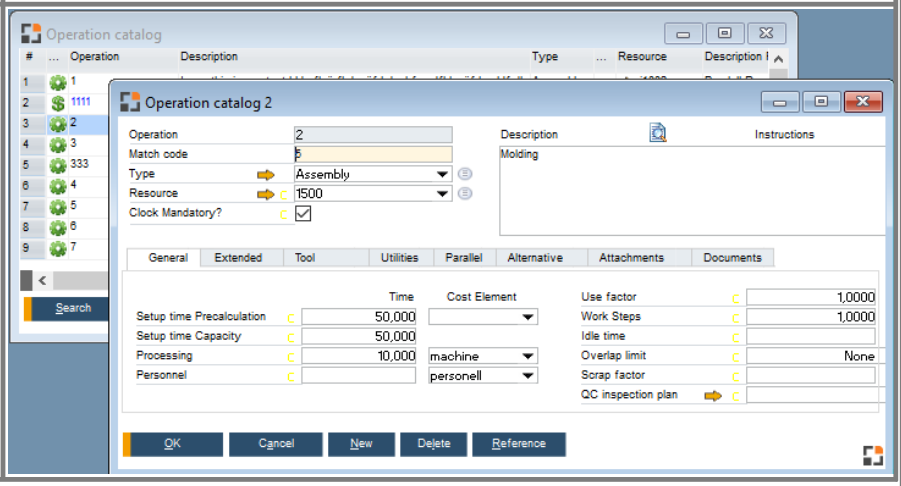
Original, wide-spaced Boyum Theme Style officially available as of version 2023.09.



© 2026 Boyum IT Solutions A/S

Style	Example Beas Standalone
Conventional	
SAP Signature	
Golden Thread	

© 2026 Boyum IT Solutions A/S

Style	Example Beas Standalone
Fiori	 **IMPORTANT:** If you change the Local client Display settings to > 100% in Fiori style, buttons disappear in all Beas windows. This is a known limitation from SAP side and affects all apps. Due to the change in the internal zoom factor of SAP, the position calculations cause wrong results. **Workaround:** Go to Station settings > Hardware tab and perform the necessary adjustments for Button Position Correction.
Belize Deep	

Note:

Outside SAP Business One Beas cannot use the framework of SAP Business One.

The Fiori Dashboard and B1UP Dashboard are not available.

Beas only uses the color schema.

Icons are not the same as in SAP Business One

© 2026 Boyum IT Solutions A/S

	Beas uses its own User interface and not SAP Business One components.
Activate Style inside SAP	Enable this check box to activate the selected "Design" in SAP.

Button Style	Choose between two types of button style:
	- Old System (Deprecated): select this to return to the old Beas button layout.
	- SAP Style: (default) Beas forms gain layout with SAP design of button names.
	NOTE: most buttons of the Old System (Deprecated) style are not visible in this style (moved to the right-click menu).
	
	Note:
	If there are a lot of customizations in your system, and you changed the functionality with the script command:
	
	`windowevent click b1`
	`end event`
	
	, not every customization will run with the SAP style. In this situation you can switch (setting: `buttonstyle 0=old, 1=SAP Style`)

Menu in SAP B1 Type Menu Standalone	Define which menu structure is used Selectable menu structure: beas2009: All Beas functions under the upper menu level Beas are summed up and separated from all SAP Business One functions. This menu can be extended via an AddOn or via an "customer-specific extensions". ***See***: AddOns Standard: Integrated menu; all Beas functions are sorted under the upper menu level of SAP Business One. Expert: The most important functions (selectable) are on the top level between the upper menu level of SAP Business One. From *Beas 9.2 PL: 02* extended settings are possible This setting can be used separately, if Beas is started integrated in SAP B1 (Menu in SAP B1) and if Beas is started without SAP B1 (Menu as Beas standalone).

© 2026 Boyum IT Solutions A/S

	Customization
	The function "initmenu" can be stored in the file "beasmenu" to overwrite the setting.
	
	You can set the following variables:
	
	`e_menu` = define the menu 0=beas 2009, 1=standard, 2=Experte
	`e_completeload` = 2=load all, 1 = load all with access, 0=load only licensed entries
	
	Example:
	for user "manager" use beas2009-Menu
	`function initmenu`
	`if <currentuser> = manager then`
	`  setvar=e_menu=0`
	`end if`
	`end function`

Menu in SAP B1 load	Define in which way the Menu inside SAP B1 should be loaded: - **Object**: Loads every Menu point. In error case the system continues to load next Menu point - **XML (fast)** **IMPORTANT:** To load all menu entries using the XML (fast) setting, you must activate "Enable Personal Data Management" in SAP "Company Details". ***See:*** **SAP > Administration > System initialization > Company Details > Basic Initialization tab**
Menu complete load	Define which menu entries are loaded The following settings are available: **No** = Only licensed menu entries and user-authorized menu entries are displayed. Advantage: Faster start process and better overview. Disadvantage: After a change in authorizations or licenses a restart of the program is necessary. **Yes (License)** = All entries the user is authorized for are displayed. Menu entries the user has no license for are also displayed. Only menu entries for which the user has no authorization are hidden.

© 2026 Boyum IT Solutions A/S

	Yes (Completely) = All menu entries are displayed. Advantage: At initial configuration it is useful to test access rights, because no restart of the program is necessary after changing license or authorization. This setting can also be changed via custom specific adjustment. ***See*** "Menu beas standalone"
Time format	24 or 12 hours (am/pm).
Date format	Choose between different formats (dd/mm/yy ; dd;Month/yyyy) etc.
Date: separator	Select the separator (default: /).
Decimal places for times	The number of decimal places in times (e.g. 3.34 hrs.) cannot be configured in SAP. The setting is not available here for this reason. It is not necessary to restart Beas if any changes are made.

3.1.3.1.4 Print and report settings

Print and Report Setup

PATH: Administration > System Initialization > Configuration wizard > Administration > Print and report setup.

Parameters

Name	Description
Microsoft Word directory for templates	Specifies the path where Word documents are filed. If emails and faxes are created using the SAP Business One messaging system, this must be a released directory accessible by all.
Microsoft Excel directory for templates	Specifies the path where Excel documents are filed. If emails and faxes are created using the SAP Business One messaging system, this must be a released directory accessible by all.
Directory for images	Enter path to pictures folder.
Directory for attachments	Enter path to attachments folder.
Header	Free text field: enter a header.
Report template	The window for editing reports opens when you click on the "Edit" button.

Printing CrystalReports

Beas supports printing documents with Crystal. For further information ***see*** Crystal.

© 2026 Boyum IT Solutions A/S

Parameters

Name	Description
Print B1 documents with Crystal	Document can be viewed in a separate Beas program task which may increase run time stability. Documents are printed via <%PFAD BENUTZERVERWALTUNG%> – function using Crystal. Advantage: simple creation of complex, multi-language reports using the available API. ***See*** Report settings, Macros, Crystal, b1documentgenerate
Do not delete beas_document_xxx	If you enable this option, entries in beas_document_header/line are deleted after 3 days. **Important**: in this case, in the Crystal-document BEAS_DOCUMENT_HEADER.ID needs to be indicated as parameter. ***See*** Crystal, b1documentgenerate
Use Internal CrystalReport viewer	Documents that are generated in Crystal Reports open in a separate viewer. Beas support Crystal Reports 11 and actual Crystal Reports, which delivered by SAP. Note: Beas can use this product, but is not part of Beas.

Setting	Description
Crystal report viewer	This setting uses the original Crystal engine installed by SAP Business One (Standard). This allows you to use all new functionalities that were delivered by the last Version of Crystal Report. Note: If old reports customization is not working, use "Old internal viewer" **Translation concept:** The system translates the reports automatically to the correct language. This is only working if all keywords in the reports are German words (the system uses Beas internal translation system) Report settings > "Translation" is not supported.

© 2026 Boyum IT Solutions A/S

Setting	Description
	Terminal Installation If SAP Business One is not installed on this client, you must install the SAP Business One Crystal viewer from folder `\\B1_SHR\Client\CRRuntime` or `\\B1_SHR\Client.x64\CRRuntime`
Old internal viewer	This setting uses Crystal Viewer Version 11. Use this, if old customized report cannot run with the new Crystal report viewer. For this the Crystal Viewer Version 11 must be installed on the client. You can download this from: http://beascloud.com/download/beas/reportviewer/reportviewer_11.zip Note: In actual crystal version there are new functions for example, examples extended Bar codes. These are not running on the old internal viewer. **Only 32 Bit variant**
Export to PDF	Use this setting if the "Crystal report Viewer" and "Old internal viewer"are not working. The setting uses the old Crystal Version 11. ***See*** "old internal viewer". Note: It displays the Report as a PDF file and it is not in an internal viewer. Only 32 Bit variant

E-mail

Name	Description
Standard e-mail sending	Indicates the technology used to send emails. ***See*** Email-Client-Types

© 2026 Boyum IT Solutions A/S

	User EMail Setup Printing and report settings
Default e-mail account	Opens settings for e-mail account: address, SMTP-port, SSL, password etc.

3.1.3.1.5 Modules to be activated

Modules can be activated with these settings.

PATH: Administration > System Initialization > Configuration wizard > Administration > Modules to activate.

Name	Description
Quality control	Releases the management of inspection plans for goods receipt and production.
Business performance	Activates the Business performance module.
Expert mode	Activates options requiring advanced Beas knowledge. Enable only after consultation with Beas support. ***see*** Expert mode.
Beta mode	Enable to get access to new, previously unreleased functions. For testing purpose in the current session it can be turned on and off by pressing Ctrl+B Crtl+M.

3.1.3.2 Financials

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Business Performance
System

This section describes the setting options of the Setup Wizard in the "Financials" tab. For most settings, Beas accesses the proprietary SAP entries. These are populated in the Configuration Wizard and automatically transferred to the proprietary SAP fields.

© 2026 Boyum IT Solutions A/S

PATH: Administration > System Initialization > Configuration wizard > Financials.

Accounting data

Name	Description
Tax office	These are the default fields of SAP Business One. To enable a complete basic initialization of the Configuration Wizard, these fields were included. Fields that are populated in the Configuration Wizard are automatically copied to the SAP Business One fields.
UID number 1	
UID number 2	
UID number 3	
Tax number 1	
Tax number 2	
Banks	Click the "Edit Banks" button to define the banks.
Default accounts	Click the "Edit Default Accounts" button to define the default accounts.
Edit Chart of Accounts	Click the "Edit Chart of Accounts" button to edit the chart of accounts.
G/L Accounts Determination	Click the "Edit Account Determination" button to define the account determination.
Currency	Click the "Edit Currency" button to define the currencies.

3.1.3.2.1 Account allocation

Chart of accounts

The chart of accounts includes all general ledger accounts. In the financial accounting each company code is allocated with a chart of accounts. This allocation is binding for the investment accounting, as well.

Accounting location key

The key for accounting location is stored in the general section of the master data of the asset class. It defines the financial accounting reconciliation accounts that are to be entered for each chart of accounts and each automatic entry of the depreciation area (see below) in a chart of depreciation. The chart of depreciation is not a key criterion for account determination. This means that no reconciliation accounts specific to the depreciation area can be stored in one single accounting location for company codes which refer to different charts of depreciation but use the same chart of accounts.

You must store an accounting location key in each asset class. In this way a class-based allocation of accounts is ensured. SAP provides accounting location keys for the standard reconciliation accounts and standard charts of accounts.

© 2026 Boyum IT Solutions A/S

3.1.3.3 Business partners

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Attendance
Business Performance
System

PATH: Administration > System Initialization > Configuration wizard > Business partner.

The characteristics of business partners are defined in this area. SAP forms are accessed for this.

Name	Description
Customer groups	Click the "Edit Customer Groups" button to define customer groups.
Vendor groups	Click the "Edit Vendor Groups" button to define supplier groups.
Business partner properties	Click the "Business Partner Properties" button to define business partner properties.
Payment Conditions	Click the "Edit Payment Conditions" button to define payment conditions.
Terms of delivery	Click the "Edit Terms of Delivery" button to define the terms of delivery.
Types of packaging	Click the "Edit Types of Packaging" button to define types of packaging.

3.1.3.4 Sales

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel

© 2026 Boyum IT Solutions A/S

Business Performance

System

PATH: Administration > System Initialization > Configuration wizard > Sales.

Parameters

Name	Description
Create work orders	If enabled, you can create a work order directly from a sales document using right-click. ***See*** Sales order.
Edit work orders	If enabled, you can edit work orders directly from a sales document using right-click. ***See*** Sales order.
Capable-to-promise	Expand additional settings for CTP/ATP

3.1.3.4.1 Capable-to-Promise

Parameters

Name	Description
Capable-to-Promise / Available-to-Promise	Group of settings for CTP and ATP.
Menu item Available	Activate the Capable-to-Promise function in sales order and sales quotation. Activate CTP / ATP. Note: ATP can only be activated with an active APS License. Using ATP is available with all basic licenses and a Default Material Resource Planning definition is mandatory.
Default Order Recommendation	Define the related Order Recommendation. CTP uses the result of the last MRP calculation for material planning. Here you specify which MRP is to be used for this.
Working days before start of production	This determines the number of working days between today and the earliest possible start of production. This only has an effect on the ATP display. It is based on the Beas factory basic calendar

© 2026 Boyum IT Solutions A/S

Only Workdays	Displays only workdays related to the company calendar. If activated, it is possible to see more workdays.

See CTP.

3.1.3.5 Master data

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Business Performance
System

PATH: Administration > System Initialization > Configuration wizard.

Parameters

Name	Description
Item Group	Click the "Edit Item Group" button to define the item groups.
Item properties	Click the "Edit Item Properties" button to define the item properties.
Length and Width UoM	Click the "Edit Length and Width Unit" button to define the length and width units.

© 2026 Boyum IT Solutions A/S

Weight UoM	Click the "Edit Weight UoM" button to define the weight UoM.
Units of measure	Click the "Edit UoM" button to define the UoMs.
Manufacturer	Click the "Edit Manufacturer" button to define the manufacturer.
Cut-off	Click the "Edit cut-off" button to define the scrap.
Raw Material	Click the "Edit Raw Materials" button to define the raw materials.

3.1.3.5.1 Item

PATH: Administration > System Initialization > Configuration wizard > Master data > Item.

Parameters

Name	Description
Default Item	To create a new item, an existing one is copied. Indicate which source item to use as default for creating new items. **Important**: all relevant fields are copied. The default item needs to be without postings and valuations. Depending on further options or call up: Item version Routing head and routing BoM head and BoM positions Quality control references Parameters Not used or transferred: Change log Documents Price list Extended price list BoM / Routing – if in Item - Management "separate BoM" was stored and the BoM has another ID than the item. Note on function "Item import": With this function, all fields are used, including valuation prices. That why it is important, the default item has no prices and valuations or stock data.
Display	Setup display and administration for Item structure and Item master.

© 2026 Boyum IT Solutions A/S

I-Version Administration	Setup I-Version – administration.
Variant	Setup Variant administration.

back to master data

3.1.3.5.1.1 Display

This option controls the view and administration for

Item structure,

Item master.

PATH: Administration > System Initialization > Configuration wizard > Master data.

back to item

Settings for Item structure – View.

PATH: Administration > System Initialization > Configuration wizard > Master data > Item > Item structure.

Parameters

Name	Description
Expand max. levels	Determines to which level to expand the item structure. Refers to the function "expand completely" in the item structure. This is computationally extensive and can take long for large structures. Use the structure report as an alternative. The maximum number levels to be expanded has been limited to 5. It can be changed here. *(Beas 9.1 PL: 08,Variable itemstrmaxlevel)*
Support SAP Bill of Materials	Activate this radio box to display SAP Bill of Materials in the Item structure. If activated, the system displays linked Bill of Materials entries which were defined in **SAP Business One: Production > Sales Set-Bill of Materials.**

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td>Note: If you change this setting for the item structure view level, the system changes the identical setting in the precalculation area, as well.</td></tr>
<tr><td>Allow Item copy</td><td>Define access to copy function.
In Beas, the proprietary function for copying items slightly differs from the SAP Business One function. Use this setting to decide whether the copy function should be available.

See
Item generation
Create new</td></tr>
<tr><td>Extension Step
- Item
- Bill of Materials
- Routing</td><td>Adjust column "Short description, activity".
The item structure can be adjusted. As in all structure views, templates are not supported because different data sources are read (Tables) depending on type (Item, BoM, routing).

Available options with this view:
1. Definition of which SQL-Fields should be loaded with (<code>SQLField1, SQLField2</code>)
2. Setup of the short description or activity. (Use DataWindow-Syntax!)

See Video

At the definition of the to be loaded fields, it is indicated which SQL-sequence should be imported in the column "SQLField1".
Note: The return value must always be from the type "varchar(x)". You can access the fields of the following tables:

Linkage SQL-Fields – Table

<table>
<tr><th>Area</th><th>Tables</th></tr>
<tr><td>Item</td><td>OITM, BEAS_ITEM_VERSION, BEAS_STL_HEADER

Note:
Always check return on ZERO. Return must always be of type "varchar(x)".</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

	e.g. coalesce("OITM"."FrgnName",'')
BoM	BEAS_STL, BEAS_ITEM_VERSION, BEAS_STL_HEADER, BEAS_ME, BEAS_APL Note: Return must always be of type "varchar(x)". A NULL-Check is not necessary.
Routing	BEAS_APL, BEAS_APLATZ, BEAS_AGTYP Note: Return must always be of type "varchar(x)". A NULL-Check is not necessary.

At the definition of the output an expression-object is filled with one of the available formula fields:

Area	Expression Object Name	Default
Item	citemname	itemname
BoM	cbezstl	bez
Routing	cbezapl	bez

Example:

Foreign language name FrgnName + Item description is to be displayed additionally.

SqlField 1 (SQL)= `coalesce("OITM"."FrgnName")`

SqlField 1 (SQL)= `coalesce("OITM"."ItemName")`

Setup item description: (DW-Syntax): `sqlfield1 +' ' + sqlfield2`

PATH: Administration > System Initialization > Configuration wizard > Master data > Item > Display > Item Master.

Parameters

Name	Description
Item Window	Select the default view of item master data

© 2026 Boyum IT Solutions A/S

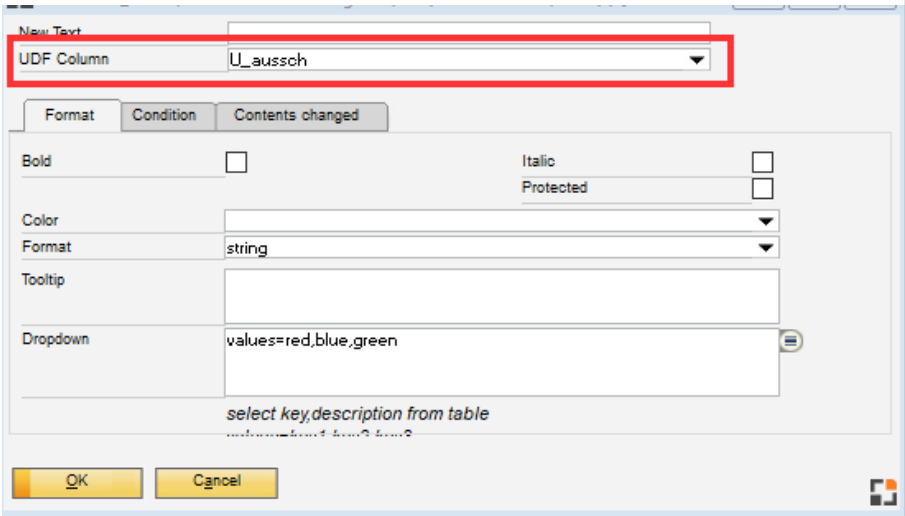
<table>
<tr><th>Name</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Beas window</td><td>With this setting, SAP integration is active, but you can view and manage item master data in the separate, Beas window with all functions gathered in its various tabs.
When you open the Item Master from a Beas form, the system opens the Beas item master data window.</td></tr>
<tr><td>SAP window</td><td>With this default setting you can view and manage item master data in the SAP BusinessOne Item master window with the integrated Beas functions. When you open the Item Master from a Beas form, the system opens the SAP item master data window.</td></tr>
<tr><td>None integration</td><td>No integration is activated, and you can open and manage item master data as in the previous Beas versions.</td></tr>
</table>
Note: If you start Beas outside SAP Environment, only the Beas Item Master Data is available.

See Item Master Data
</td></tr>
<tr><td>Manage parameter</td><td>The "Parameters" tab is displayed. Any additional information on the item can be stored in the parameters, for example UDF. When a work order is created, the parameters are copied there. Variant production can also access these parameters.</td></tr>
<tr><td>Specific weight by item</td><td>If active, the specific weight is managed per item in master data, otherwise it is stored in raw material. This field can be very useful for calculating conversions</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Name	Description
	between warehouse unit and consumption unit. ***See*** also: Item master – specific weight Units of measurement.
QC Extended rules	Extended determination of QC-inspection plans If enabled, determination of inspection plans provides an extended functionality but it is also more complex to operate. Settings refers to **Item master > QC tab.** Additional functions (if **enabled**): 1. List of entries can be sorted by Drag&Drop 2. In editing window the "Rules" tab is inserted 3. No automatic sorting by priorities! If **disabled**: 1. List is automatically sorted 2. "Rules" tab is hidden in editing window We recommend to disable this option, unless it is really needed. *qsextentedrule*
Use RTF-Fields	Activate RTF support in Item Master Data - Description fields When activated, long descriptions can be entered in the item master as RTF text. **Warning**: SAP Business One cannot display RTF texts. ***See*** also: Master data
Name UDF 1–4	Define up to 4 UDF fields in Beas Item Master Data window Item master is saved in an SAP Table and SAP has its an own UDF concept. UDF1-4 do not exist. Beas windows support only UDF1-4. In item master data it is possible to link a Beas UDF with SAP UDF. 1. Define UDF field in **SAP > Tools >Customization tools > User-Defined-Fields > Master Data > Items > Items**

© 2026 Boyum IT Solutions A/S

Name	Description
	2. Go to **Configuration wizard > Item > View > Item Master Data > UDF** 3. Click on the tool box right of the UDF field. 4. Select the UDF field where you want to save the data. The field must be from type "Char", otherwise the system cannot save the information.  Note: In SAP Item Window - Extended Production the UDF's are not integrated because the SAP window has its own UDF concept. All UDF's are on the right side and it is possible to move these fields in any place.

Name	Description
Item management	Determines type of item management Supported options: simple: BoM and routing are always firmly linked to the item. In item master, the tabs BoM and Routing are displayed.

© 2026 Boyum IT Solutions A/S

	The field "I-version" can be used freely, it has no function.
separate BoM management	BoM and routing are managed separated from item master. In item master a BoM and optionally a routing can be linked to an item. By creating a work order manually, you can replace the BoM and routing. The field "I-version" can be used freely, it has no function.
Version control	Item version control is active. Per item, any number of versions can be stored. Per version the description, drawing number and link to BoM and routing can be defined separately. The field "I-version" in item master displays the currently active version. Use this field to select other versions if necessary.
Variants	The same function as "Version control" but in this case variants are used, which can be selected already in a sales order. In this case, the field "I-version" indicates the variant.

Item version control is disabled by default.

Note

Item version control is available from beas9.1 Patch4 in combination with SAP B1 9.1.

(beas9.1-004-000, versioncontrol)

Routing directly selectable	Determines whether the routing is selectable This option is visible only if item version control is enabled.

© 2026 Boyum IT Solutions A/S

	If the option is disabled, (default) the routing is stored in the BoM. If the option is enabled, the routing is linked to the item or item version independent of the selected BoM. NOTE: BoM items can be linked to routing items. If the routing is not firmly linked to the BoM, it is not possible to check the linkage. Beas does not block linking BoM item and routing position, but the user needs to make sure that the links are correct. ***Example*** of use: Enable if you want to work with alternative routings. *tem_routing_choose*
Supporting SAP Business One Bill of Materials	Activate the SAP Bill of Materials support If this option is activated, the SAP Business One Bill of materials is displayed in the item structure and the calculation, or included in the calculation. This option is for users, who use calculation exclusively. Enabled: SAP Business One BoM is displayed in master data, in calculation and in work orders (if created via calculation). The SAP Business One BoM is not considered in MRP.

3.1.3.5.1.2 I-Version administration

PATH: Administration > System Initialization > Configuration wizard > Master data.

Settings for Item version (I-version) control.

See Item Edit I-Version

Parameters

Name	Description
I-Version: Release	Determine the release of new I-versions Switch only active if item management was set to "Version control" or "Variant".

© 2026 Boyum IT Solutions A/S

When can a new version/variant be used?

At new creation	0	Release immediately after creation (Default)
Manually	1	Entry needs to be released manually

Beas9.0-004-035-000, item_newrelease

I-Version: Numbering

Numbering template for creating new I-Versions

If a new I-Version is created, the next number can be determined. Here you can define the template for numbering.

xxx is replaced by a continuous number. Number of x determines the number of leading 0.

Example:

xxx = 001, 002, 003...

xxxx = 0001, 0002, 0003...

V-xxx = V001, V002, V003...

IV(xxxx) = IV(0001),IV(0002)...

x = 1,2,3,4 5,6,7,8,9,0 (max. 10 versions)

There is no counter. The following number is determined by the last existing number for that item. Changing the template subsequently can lead to problems, because it is also used for determination of the last number.

Determine numbers via BeasScript

You can define numbers using script. Store a script by clicking on the cogwheel icon.

Available variables:

<e_itemcode>

In variable "<value>" the version number is returned

Example

Continuous number over all items

© 2026 Boyum IT Solutions A/S

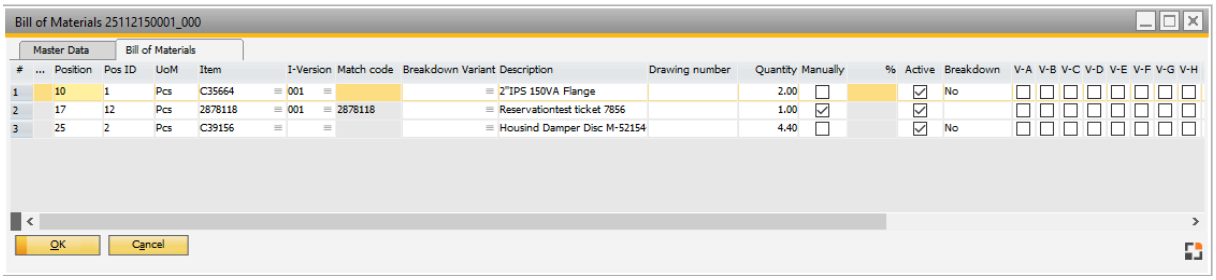
	``` setvar=ll_counter=<setup:myaversion> setvar=ll_counter=%numadd(ll_counter,1) setsetup=myaversion=<ll_counter> setvar=value=000000<ll_counter> setvar=value=<value,right 6> return <value> ``` Note: I-Version is alphanumeric, it is counted: 1,10,11,2,3,4,5,6,7,8,9 For this reason it is recommended to use numbers beginning with 00. 001, 002, 003, ... 010, 011
Default Version Status	Item version status to be used as default at new creation or copying a version.
UDF 1...4	Free definable fields.

3.1.3.5.1.3 Variants

PATH: Administration > System Initialization > Configuration wizard > Master data.

Simple variant administration (Variant A-Z). ***See*** variants

Inventory > Bill of Materials > Open selected item.



Window artikel_stlpos_edit.psr

Parameters

Name	Description
Variants per item	If active, you can define variants per item. If disabled, the menu item "Variants" is displayed, along with a button to edit simple variants variants, item master.

3.1.3.5.2 Bill of Materials

Determines basic settings of Bills of materials. Sub-chapters:

© 2026 Boyum IT Solutions A/S

BoM

BoM head

BoM position

Parameters

Name	Description
Change with Reason	Activate the entry of a change reason For changes in a position or BoM positions, a change reason after each change is queried if this is activated here. Affected: **Item > BoM** tab. Open BoM Not at import, mass changes. *beas9.0-004-011, Variable changelogstl*

See BoM

3.1.3.5.2.1 BOM head

Settings for the BOM head.

PATH: Administration > System Initialization > Configuration wizard > Master data > Bill of materials > Bill of materials Header.

Parameters

Name	Description
Release	Determines the release of a BoM At new creation: BoM is immediately released. Manually: BoM is not released after new creation or copy. ***See*** BoM – Release *Beas9.0-004-035, Variable bom_newrelease*
UDF1..4	Freely definable fields; visible only if a name was entered. ***See*** UDF.

See BoM

3.1.3.5.2.2 BOM position

PATH: Administration > System Initialization > Configuration wizard > Master data > Bill of materials > Bill of materials Position.

© 2026 Boyum IT Solutions A/S

Parameters

Name	Description
Material per	Determines the number of finished parts the quantity specification refers to in the BoM position. For "each 1000" and a quantity of 5 pieces in the BoM position, 5 pieces are required per 1000 finished parts.
Accept Changes	"Material per" is entered in the master data and current production. This function must not be carried out in running operation.
Position Increment	During the creation of Bill of materials, the position numbers are generated automatically. The increments are entered here – Default is 10.
Name Info Field	There is a freely usable field available in the Bill of materials, called "Info". It can be renamed here.
Name UDF 1 .. UDF4	Additional freely usable field. Only visible when a name was issued. ***See*** UDF.
Item, if unknown	Used item code if for BoM position no other item is available If no item was created for a BoM position or no item shall be created, you can use a replacement item. Description and drawing number can be entered manually. Running the import program, this item is used automatically. If no item was defined, the BoM cannot be imported. If a new BoM position is registered and the item defined here was inserted, the switch "manually" will be displayed. *Beas 9.1 PL:08, Variable st_bomtemplate*
Scrap Calculation procedure	The formula to be used for the Material Scrap in Bill of Materials can be selected here. You can select between two methods to calculate the BoM Scrap. Scrap = Quantity * (Scrap %) Scrap = Quantity / (1 - Scrap%/100) Default is first option (same function as in the past). In this way you will not lose compatibility to older versions. For more information ***see*** Scrap field in Bill of Materials.

See BoM

© 2026 Boyum IT Solutions A/S

3.1.3.5.3 Routing

Determines basic settings of routings. Sub-chapters:

PATH: Administration > System Initialization > Configuration wizard > Master data > Routing.

Routing
Routing head
Routing position

Parameters

Name	Description
Change with Reason	Activate the entry of a change reason If active, a reason is queried after each change. Affected: Item - BoM tab Open BoM Not at import, mass changes. No effect on operation catalog, parallel tools or parallel resources. *Beas9.0-004-011, Variable changelogstl*

back to master data

3.1.3.5.3.1 Routing head

Settings for routing.

PATH: Administration > System Initialization > Configuration wizard > Master data > Routing > Routing Header.

Parameters

Name	Description
Release	Determines the release of a routing. At new creation: Routing is immediately released. Manually: Routing is not released after new creation or copy. ***See*** Routing – Release *beas9.0-004-035, Variable routing_newrelease*
UDF1..4	Freely definable fields ***See*** UDF.

© 2026 Boyum IT Solutions A/S

See Routing

3.1.3.5.3.2 Routing position

PATH: Administration > System Initialization > Configuration wizard > Master data > Routing > Routing Position.

Parameters

Name	Description
Quantity per time	Default 1: Determines which assembly quantity the time specifications refer to. In case of 100 and a time of 10 minutes, this corresponds to 10 minutes of effort per 100 pieces. A subsequent change implies a complete revision of the already entered data.
Accept Changes	The "Quantity per time" specification is written in all existing entries (operation, routing, production routing) but not calculation.) **Warning**: No change log is created. The process cannot be undone. It has a direct influence on all analyses, including closed work orders and assembly valuations.
Time Unit	Minutes / hours: Defines whether the stored times are stored as hours or minutes.
Accept Changes	The "Time Unit" specification is written in all existing entries (operation, routing, production routing) but not calculation. **Warning:** No change log is created. The process cannot be undone. Has a direct influence on all analyses, including closed work orders and assembly valuations.
Scrap related to a certain operation	Determines whether a material scrap factor can be specified in the routing. If this option is activated, a corresponding field is available in the routing. This scrap factor is generally deactivated and should only be activated if the other scrap factors are insufficient. ***see:*** Scrap / Cut-off On activation, the calculation time in MRP may increase.
Behavior of Routing Scrap Material % affects	Define how to calculate Material scrap by Routing position Drop-down parameter with 3 types of behavior: - "Linked material only": Only linked materials are affected by the scrap % - "From first to the last linked material": All materials below any linked material are affected.

© 2026 Boyum IT Solutions A/S

	- "All materials are affected". ***See*** Concept Scrap of Material Routing position Extended
Operation: Column "Active" show	Determines whether the "active" field in the operation should be displayed. You can activate / deactivate an operation in dependencies here. If this function is not required, we recommend that you deactivate it. If enabled, the calculation time can be significantly longer for large amounts of data. ***See*** Edit routing position.
Position Increment	When Routings are created, the position numbers are generated automatically. The increments are entered here – Default is 10.
Default Cost Center	A default cost center can be defined for faster input.
Default Resource	A default resource can be defined for faster input.
First Field	For faster input you can define the field in which the cursor should be positioned when recording the positions.
Format instructions	Determines the format of "instructions" field. Available: "Text" and "RTF". ***See*** Edit routing. Note: Changing format settings does not affect existing entries. *(beas 9.1 PL: 07)*
UDF1 .. UDF4	User-definable fields. ***See*** UDF

See

Routing

Configuration wizard - Routing

3.1.3.5.4 Resource

PATH: Administration > System Initialization > Configuration wizard > Master data > Resource.

Parameters

Name	Description
Time types: administrate times by	This determines whether times are calculated in parallel or summed up for lead time calculation.

© 2026 Boyum IT Solutions A/S

Up to three times can be specified. Each time type can have its own costs and its own lead time.

Available settings:

- Sum

  Lead time + capacity = Sum of all time types.
  Costs = Sum of all time types.

  Example:
  Processing = 3 Min
  Rework = 5 Min
  Quality Control = 2 Min

  Lead time = 10 Min
  Costs = 10 Min *cost rate

  timetype_sp=S = Standard

- Parallel

  Lead time + capacity = largest time.
  Costs = Sum of all time types.

  Example:
  Processing = 3 Min
  Rework = 5 Min
  Quality Control = 2 Min

  Lead time = 5 Min
  Costs = 10 Min *cost rate

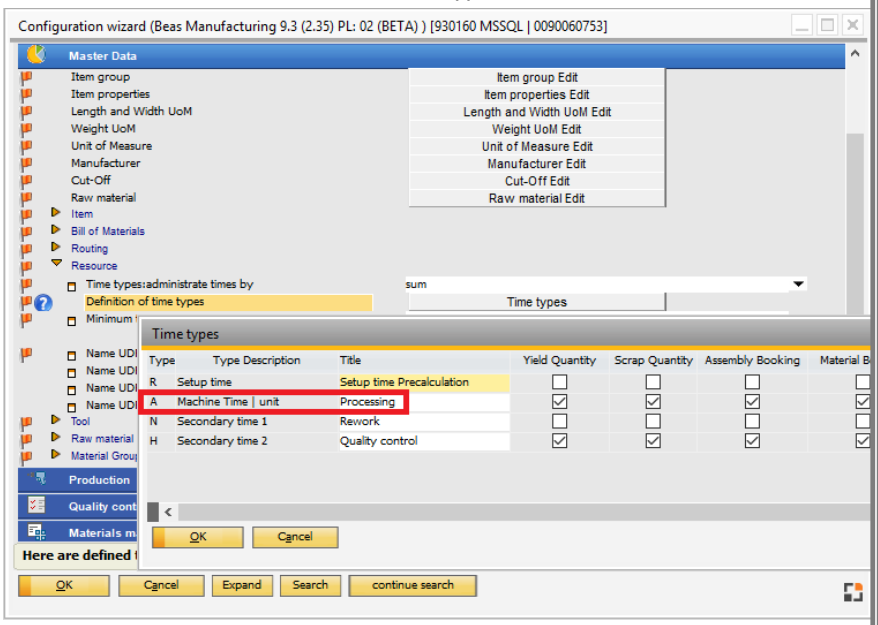
  timetype_sp=P

- Processing time

  Costs = Sum of all time types.
  Capacity + Resource time = Processing time.

© 2026 Boyum IT Solutions A/S

The naming can be stored in the Configuration wizard. The processing time here is considered as the row "Type A"



Example:

Processing = 3 Min

Rework = 5 Min

Quality Control = 2 Min

Lead time = 3 Min

Costs = 10 Min *cost rate

besa9.0-004-011, timetype_sp=E

Determination of Secondary time

For determination of secondary time, all time types need to be active. Only main time (TH) can be entered.

The processing time is calculated:

TE = main time (TH) * personal allowance % from resource * recovery time % from resource

Secondary time (TN) is calculated:

© 2026 Boyum IT Solutions A/S

TN = Processing time (TN) - main time (TH)

Costs = Sum of all time types
lead time and capacity = Processing time (TE)

- Explanation of terms
  - What is a secondary time (TE)

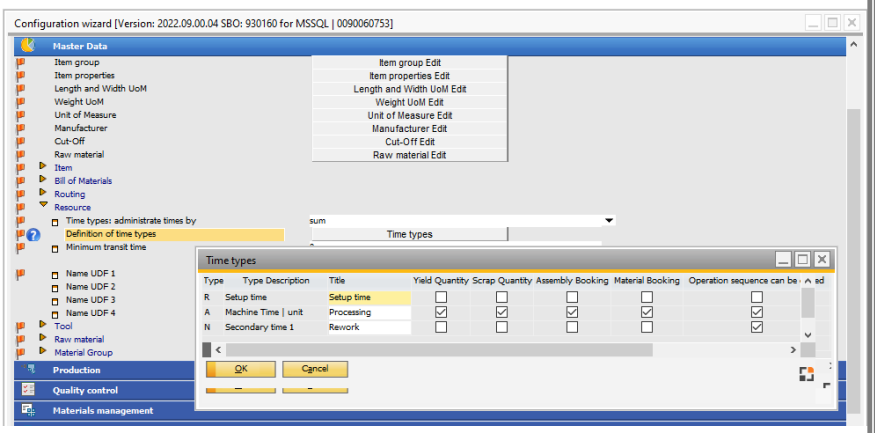
    In every single process there are secondary times "TN". These proportions of times are required to enable a process sequence as a whole. Thus, all Handling-operations are considered as secondary times e.g. conditioning of the grinding-wheel, dressing tool change or preparation-operations etc.

  - What is a primary time (TH)

    The total time required for the operation process is called primary time (TH). This contains all the proportions of times that occur from process start to the end of the process.

The time types can be set in the Configuration wizard.

Primary time TH is stored in row with type "H"
Secondary time TN is stored in row with type "N"
Processing time TE is stored in row with type "A"



© 2026 Boyum IT Solutions A/S

	timetype_sp=N ***See*** Operation - Processing time Resource - Extended tab timetype_sp=N ***See*** Concept time types Resource costs Time types Configuration wizard - Time types Variable timetyp_sp, Standard=S
Definition of time types	The 4 time types can be managed here. ***See*** time types
Cost per	This defines whether the arising resource costs are stored "per minute" or "per hour" In Resources > Master data costs can be defined which accrue during the usage of the resource. In Resources > Master data, you can define the costs incurred when using the resources. **Attention:** The information whether the costs per minute or hour are stored is not stored in the resource. Therefore, if this switch is changed, all stored costs correspond to the new setting. ***Example:*** You have stored 1, You have stored 1,60€/Min. If you change the switcher to hour, the cost rate will be changed to 1,60€/Hour. Therefore, the cost rates will be recalculated after the change. You have deposited 1,60€/minute. If you change this switcher to hour now, you get the cost rate of 1.60€/hour. You must, therefore, make certain that the cost rates are revised after the changeover. **Attention:** As soon as a work order has been created, this setting cannot be changed and will be hidden. Otherwise, the change would affect existing work

© 2026 Boyum IT Solutions A/S

	orders which would cause the evaluation to be false. As soon as a production order has been generated, the switch conversion would also affect existing production orders – the valuation would, then, be incorrect.
	
	Subsequent Change
	If a subsequent change is required, it must be made as follows:
	
	1. Finalize all running work orders.
	2. Open debug window, Script tab.
	For change per minute:
	`setsetup=arbplatz_kstje=1`
	For change per hour:
	`setsetup=arbplatz_kstje=60`
	Run Script – Execute
	3. Adjust cost rates in resources.
	Do not use existing Precalculations and do not open work orders.
	
	As soon as a work order has been created, this setting cannot be changed and it will be hidden.
	
	Warning:
	A change has an immediate effect on every calculation and valuation function. If cost rates were entered to resources, and the time unit is changed here, make sure to adapt costs to the new time unit. This is not executed automatically.

Minimum Transit Time	Defines the minimum transfer times between 2 resources. ***See*** Resource - Transit time
Set Minimum Transit Time	The "Transit time" specification is entered in all existing resources. **Warning:** No change log is created. Process cannot be undone.
UDF1 .. UDF4	User-definable fields ***See*** UDF.

Example of use with Secondary time

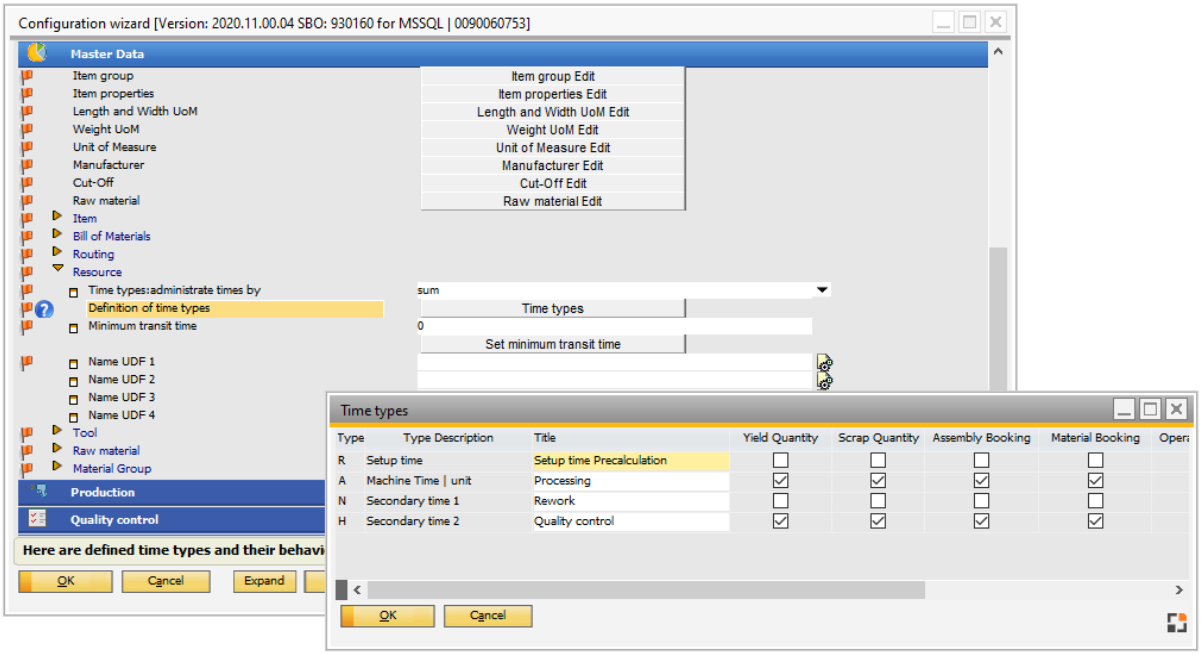
back to master data

© 2026 Boyum IT Solutions A/S

3.1.3.5.4.1 Time Types

PATH: Administration > System Initialization > Configuration wizard > Master data > Resource > Time Types.

For each operation, up to 4 time types can be stored which can be valued with a proprietary cost rate, and to which feedback on costs and times can be reported separately.
The time types are fixed, but their names and behavior can be changed here.



Time types

Name	Description
Type	Time type R: Setup time type with corresponding behavior in valuation and calculation. It may only be used for setup purposes. A: Editing time (machine time/unit). This corresponds to the main editing time which is always active. N: Secondary time/unit 1 for free use ***See*** Secondary time H: Secondary time/unit 2 for free use ***See*** Secondary time In Personnel master - FDC you can set up which time types the employee can select at Work order login-

© 2026 Boyum IT Solutions A/S

	See Time types - Administrate times
Description	Description field for the catego.ry
Designation	Designation of time type Displayed in routing position, operation. Note: Enter the designation in German – it will be translated to other languages. Entries without available translations will be displayed as entered. When creating a new database, the selected database language is used as default. ***See*** Rounding
Yield Quantity	Activate to allow inserting Yield Quantity If not allowed, an error message pops up upon inserting a quantity. *(AE_checkqty) At the time type <name of time type> 'no Yield Quantity' must be specified. Set value to 0 (**See Configuration Wizard > Master Data > resources > time types**)*
Scrap Quantity	Activate to allow inserting Scrap quantity If not allowed, an error message pops up upon inserting a quantity *(AE_checkqty) At the time type <name of time type> 'no Yield Quantity' must be specified . Set value to 0 (**See Configuration Wizard > Master Data > resources > time types**)*
Post Assembly	Should it be posted in the finished part when creating a time receipt for this time type, according to the settings (e.g. last operation)?
Post Material	Should the material belonging to the routing position be backflushed in case of a time receipt for this time type?
Position Closeable	Should it be permitted to close the routing position if doing a time receipt for this time type? ***See*** Order time – Logoff.

© 2026 Boyum IT Solutions A/S

Release next work sequence	Should the next work sequence be released after time receipt for this time type? (***Example:*** the following work sequence may not be released after setup)

See: concepts time types

3.1.3.5.5 Tool

PATH: Administration > System Initialization > Configuration wizard > Master data > Tool.

Parameters

Name	Description
Tool booking on Warehouse	When entered, the tool item will be transferred to the store when the operation is registered.
Default cost element for tool costs	Default cost type to which the proportional tool costs are posted.
Default cost type for maintenance costs	Default cost type to which the proportional maintenance costs are posted.
Set cost type	The selected cost types are recorded in all tool entries. **Warning:** Existing entries are overwritten without warning. No change log is created, the change cannot be undone, and calculations and existing work orders are not affected.
Name UDF1...UDF4	User-definable fields ***See*** UDF

back to master data

3.1.3.5.6 Raw material

PATH: Administration > System Initialization > Configuration wizard > Master data > Raw material.

Parameters

Name	Description
Name UDF1...UDF4	User-definable fields ***See*** UDF

back to master data

© 2026 Boyum IT Solutions A/S

3.1.3.5.7 Material group

Extended settings for material group.

PATH: Administration > System Initialization > Configuration wizard > Master data > Material group.

Parameters

Name	Description
Material group	Use this button to edit material groups. ***See*** Material group
UDF1 .. UDF4	Up to 4 additional fields can be defined. Extended format settings, colors and images are supported. ***See*** UDF

3.1.3.6 Production

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Business Performance
System

This section describes the setting options of the Configuration Wizard in the "Production" tab.

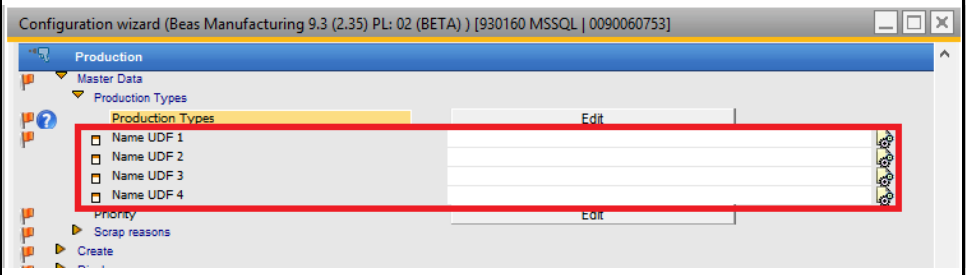
PATH: Administration > System Initialization > Configuration wizard > Production.

3.1.3.6.1 Master data

PATH: Administration > System Initialization > Configuration wizard > Production.

Parameters

© 2026 Boyum IT Solutions A/S

Field	Description
Production types	Any number of production types can be created, e.g. "sales order", "make to warehouse", "repair order", etc. ***See*** Production types Additionally, you can set up to 4 UDFs for production types. For details of configuration ***see*** UDF configuration for Scrap reasons below.  *Window system_option_struktur.psr*
Priorities	This method can be used to set up priorities. ***see*** Priorities
Scrap reasons	Define scrap reasons with the help of UDFs. ***See*** Scrap reasons for a detailed description on available settings.
UDF1 – 4	Define Name of up to 4 UDF's for Scrap Definition.. For description on UDFs ***see*** Configuration wizard – UDFs

3.1.3.6.2 Create

Define settings for the creation of a new work order.

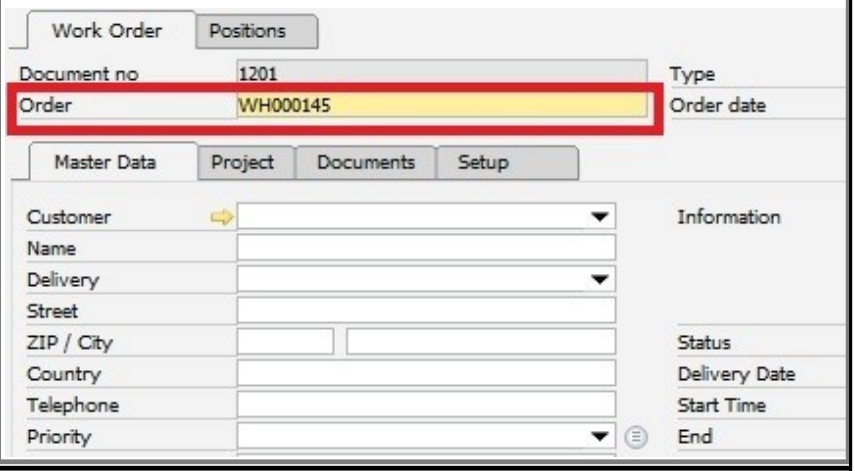
See Number creation

PATH: Administration > System Initialization > Configuration wizard > Production

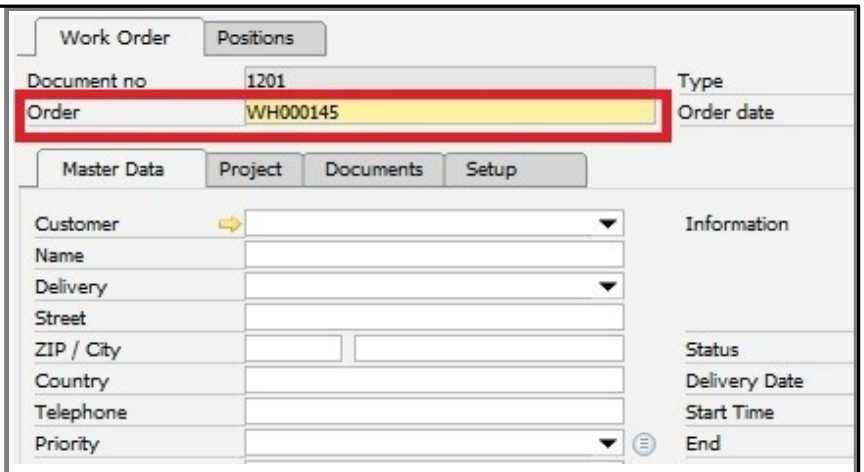
Parameters

Name	Description
Production type for warehouse related order	Determines the specification of the production type when creating a new work order, if it is not an order-related work order. Production types are set up in **Configuration Wizard > Production > Master Data > Production Types**.

© 2026 Boyum IT Solutions A/S

Production type for sales order	Determines the specification of the production type when creating a new order-related work order. Production types are set up in **Configuration Wizard > Production > Master Data > Production Types** .
Default Actual Precalculation	Determines if the pre-calculation is used as the default for creating work orders **Enabled** (Default): A work order is created from the Precalculation if a work order was created from a sales order in which a Precalculation is stored. **Disabled**: A stored Precalculation is not considered. The master data is always used as a reference. *beas 9.2 PL: 06 workorderfromcalculation J/N*
Automatic Numbering	Define automatic numbering A work order has two document numbers: There is a consecutive counter that cannot be influenced and a counter that can be freely defined. The second counter can be allocated during a new manual creation if this option has been activated. **Note**: If a work order was created from a sales order, this setting has no effect. ***See*** Number creation 
Make to stock Work order number template	Determines the configuration of the order number if it is a "make to stock"

© 2026 Boyum IT Solutions A/S



Option is only visible if "Automatic Numbering" was activated. The current counter is defined in Current counter status.

In the template the lower case "x" is replaced by the current counter. Number of x equals the number of initial 0. Other placeholders (e.g. uppercase X) are not supported.

Note: If the work order was created from sales order, this setting has no effect.

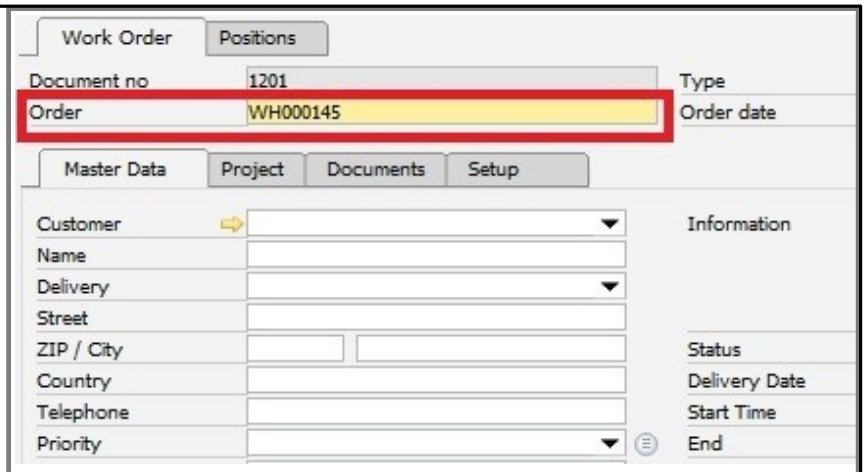
Example:

A-xxxx: A-0001, A-0002 etc.

See Number creation

Current counter status	Current counter reading for WO number for stock related work orders or for sales order related work orders, if you defined a counter "[xxx]" inside the "sales order call up work order number template".
Sales Order Call up Work order number template	Determines the structure of the production order number when it is retrieved from a sales order or pre-invoice. If a production order is created from a sales order or pre-invoice, the production order number can be generated from a reference number of the sales order. For this purpose it is possible to define an SQL template.

© 2026 Boyum IT Solutions A/S



You can define the following settings:

Counter	The numbering "current counter" is used. This is the same counter as in the case of warehouse-related work orders.
	
	If you choose "Counter", Beas inserts "xxxx" as a "template" in this field.
	It uses the same counter (= option current counter) as for warehouse-related work orders.
	See Option "Make to stock Work order number template" above.
	If you want the same counter structure as in warehouse-related work orders, insert the same template, e.g. "WHxxxx" for counter WH0001,WH0002, and so on.
	
	Info:
	Warehouse-related and sales order-related work order is used in this same counter.
	
	Example
	`xxxxx`
	the x = the counter, count of x = the length of the number
	
	`xxx = 001,002,003`
	`xxxx = 0001,0002,0003`

© 2026 Boyum IT Solutions A/S

	`SalesOrder-xxxx` generate `SalesOrder-0001,SalesOrder-0002 ...` You cannot combine SQL Sequence with the counter. If you want the same counter as warehouse-related work order, then insert the same template in this option as in the warehouse template.
Standard	Uses sales order number " - " Line number. For example, sales order 3000 Line 2 returns 3000-2 as order number. Note: For pre-invoices the corresponding pre-invoice document number is used.
Sales Order - Line	Like "Standard" (not removed for compatibility reasons)
Sales Order / Line	Same es "Standard", but using "/" as delimiter (z.B. 3000/2)
[SQL Sequence]	You can access all fields of table ORDR and RDR1. If it is a pre-invoice, all ORDR and RDR1 will be replaced by OINV and INV1. template. (***Example***: `"ORDR"."CardCode"` = Customer order). The placeholders `[docnum]` and `[visline]` are replaced by the order number and line number (already correctly formatted). An SQL string must always return the type "String". Type "`[counter]`" uses the production standard counter. Max. lenth = 50 chars, If the result > 50 chars, the program create an error. ***Example: Docnum and ItemCode***

© 2026 Boyum IT Solutions A/S

	`[docnum]||'-'||"RDR1"."ItemCode"`
	
	Would return order number+article number.
	
	***Example*: Docnum and Line num as SQL String**
	
	`rtrim(CAST(~"ORDR~".~"DocNum~" AS char(30))||'-'|| +rtrim(CAST(~"RDR1~".~"VisOrder~"+1 AS char(30)))`
	
	See Edit work order
	See Number creation
	Variable: auftr_abruf

Approved	Determines whether the switch approved is enabled when a WO position is created The approved switch is located in the Work order position. The underlying assembly structure receives the sames status. *beas9.0-004-044-000, woconfirmed*
Approved at Sales Order	Determines whether the approved switch is enabled when creating a WO via Sales order to Work order The approved switch is located in the Work order position. The underlying assembly structure receives the sames status. Select: **Yes** **No** **Like sales order** = status of switch is taken from **Sales order - Logistics - Approved** **Note**: Setting is only taken into account, if the work order is created directly from sales order (using the function SO to WO), not if it is manually created. *beas9.0-004-044-000, wo2orderconfirmed*

© 2026 Boyum IT Solutions A/S

Default Priority	A priority can be defined here that is entered by default when creating a new work order. ***See*** Priority
Default Name	The default name when the work order is created manually.
Assembly Position Increments	Increments for numbering the assembly position. The value is 10 by default.
Bill of Materials Increments	Increments for numbering the bill of materials position. The value is 10 by default.
Work Order Increments	Increments for numbering the routing item. The value is 10 by default.
Warning if no BOM	An error message is issued if no Bill of materials is stored when the work order is created. Error Text: *No bill of material exists for item xxx Work order y/z was created without (..) (faufstl05)* A message is created (extended error message) at the same time (***see* Configuration Wizard > System > Extended Error Message**).
Warning if no Routing	An error message is issued if no routing is stored when the work order is created. A message is created (extended error message) at the same time (***see* Configuration > System > Extended Error Message**).
Renumber BOM	Normally, the numbering used is according to the master data. If, for some reason, a new numbering is provided, this option must be activated.
Renumber routing	If active, routing is automatically renumbered at when a new work order is created.
Summarize phantom assemblies by item numbers	⊟ Summary by the same item number If this option is active, phantom assemblies are summarized by item numbers. If this function is enabled, a comparison between work order and original item is no longer possible and the Work order update does not function. Error message: auftrs340: "Material summary is enabled..." is issued regardless of the use of phantom assemblies. ***See*** Work order update
Apply inactive work sequence	If enabled, inactive operation sequences are also transferred to the work order and are set to inactive. The inactive operation is visible in the work order structure but is crossed out with a black line. ⊟ Control the behavior of inactive operations during the WO structure refresh process

© 2026 Boyum IT Solutions A/S

	1. When **active**, and the operation in the WO master data is set to inactive: a) In case of Work orders without documents (time receipt), the operation is deactivated by this setting. b) In case of Work orders with documents (time receipt), the operation is closed. 2. When **inactive**, and the operation in the WO master data is set to inactive: a) In case of Work orders without documents (time receipt), the operation is deleted by this setting. b) In case of Work orders with documents (time receipt), the operation is closed. If a previously inactive operation is activated in the WO Master Data, it will be activated in the WO, or if it does not exist in the WO, it will be inserted. ***See*** Work order structure refresh. ***See*** Active Flag in Routing Position.
Merge phantom assembly	Determines which assembly times and material are posted to in case of merging. An empty, not storage-related assembly (without BoM and routing) can be selected.

Sub-assemblies: consider lot size	If active, lot sizes are considered in sub-assemblies
	
	Example
	Assembly A contains 1 x order related assembly B
	Assembly B has a lot size of 10
	35 pieces of A are produced
	
	If the option is **active**, the following structure is created:
	
	`35 * A`
	`|_ BOM 35 * B`
	`|___ Assembly 10 * B`
	`|___ Assembly 10 * B`
	`|___ Assembly 10 * B`
	`|___ Assemblye 5 * B`
	
	If the option is **disabled**:

© 2026 Boyum IT Solutions A/S

	35 * A |_ BOM 35 * B |___ Assembly 35 * B **Attention:** Disabled: There is a 1:1 link between BoM and Sub Assembly Enabled: There is a 1:n link between BoM and Sub Assembly If you change the setting from "Enable" to "Disable" and Work orders with 1:n link exist, Beas always considers the first position only and ignores all other sub-assemblies. **Notes on disabling the option:** Close all work orders that have more than 1 sub-assembly per Bill of materials position. **Note**: This option affects Precalculation. ***See*** Precalculation - Display and lot size ***See*** Item master lot size Production *beas9.1-004-056 auftr_lotsize (Default N = not activ)*
Precalculation material pricing	Specifies the pricing of materials when valuating assemblies.
WO refresh behavior	Specifies the behavior of Work order refresh: WO Structure refresh behavior settings **- only if no documents exist:** Refreshing of the Work order is only possible if there are no related documents (including reservations, issue or receipt documents). **IMPORTANT:** Refreshing is also not possible if the Work order has been printed. **- only add new information:** Refreshing the work order only displays new information on new material positions or operations added to the master data in the work order. Information is added at the end of the actual WO structure. **- disabled**: Refreshing a work order is not possible, and the function does not appear in the right-click menu. - **refresh:** Changes in existing WO BoM and routing are possible (***see*** also "WO refresh action" below).

© 2026 Boyum IT Solutions A/S

	Note: If reservations exist, the system will remove all the reservations during the Work Order Refreshing process.
WO refresh action	Specifies what the Work order refresh updates: **- BoM:** The refresh function updates newly added BoM information. **- Routing:** The refresh function updates newly added Routing information. **- All:** The refresh function updates all newly added information. NOTE: If in the WO there are links between the BoM and routing positions, we recommend to use option "All". The "BoM" and "Routing" options do not delete the links if the refresh process needs to close a Routing/BoM position. Attention: If no documents have been created for the WO, the WO will be completely recreated upon the refresh action. BoM and Routing settings are ignored in this case.
Fast copy for lot size	If enabled, the creation of lot size WO's can be faster, by using an alternative way for "duplicating" the WO positions. Setting details This setting only has impact on items with a defined lot size. The activation also has some limitations: - all settings are only done for the first WO position. - the following lot positions are a 1:1 copy of the first lot. - the last lot can be different if the quantity is different from the previous one. Therefore, if you have e.g. a custom script, that applies some values that are different for each lot, it is recommended, **not** to activate this setting. If the WO creation process has to create different positions (e.g. positions are created by script or SO to WO combines more than one position to one WO), the "fast copy" process will be automatically disabled for this WO.

© 2026 Boyum IT Solutions A/S

3.1.3.6.3 Display

Controls the view in the following areas.

Structure view
Work order
Production - Position
Production - BOM
Production - Routing
Material requirement lists, Reservation, Allocation and Material issue

PATH: Administration > System Initialization > Configuration wizard > Production.

Structure View

Determines display behavior in **Production > Structure View**

Parameters

Name	Description
Structure view times per (hours/minutes/automatic)	Determines how times are displayed **Available untis:** Minutes Hours Automatic At automatic are following rules **Duration to** / **Unit** 1 minute — Seconds 200 Minutes — Minutes 2 Days — Hours From 2 Tage — Days (***see*** Resource - Planning Capacity in hours / day) The next bigger value of the default time or reported time will be used as reference for the duration.

© 2026 Boyum IT Solutions A/S

	Note: Definition 1 Tag corresponds the number of hours, which are stored in the Resource - Planning Capacity in hours / day. The shift calender will not be considered.
Open search window first	If this option is activated, the search window is displayed before the work orders are displayed.
Activate dispatch index	If this option is activated, the utilization level of the affected is displayed as a utilization bar to the right of the operations for a period that can be defined below. This setting can also be changed in the Work orders window > window settings.
Dispatching index: number of days to consider	Number of days in the utilization display. Calculation Planned capacity = today until "today + number of days" Actual capacity = dispatched from the past until "today + number of days" This setting affects also other windows containing a dispatch or utilization display: ***See*** Resources Resources Group administration Edit resource groups All resources
Max.. Lines Assembly	Define the maximum number of positions displayed per work order in the Work Orders window.

Work order

Name	Description
Name UDF 1	User-defined field
Name UDF 2	User-defined field
Name UDF 3	User-defined field
Name UDF 4	User-defined field

Position

© 2026 Boyum IT Solutions A/S

Name	Description
Manually Input Complete	Normally, the number of finished assemblies is the total for the postings. If the assemblies are not posted, the finished assemblies can also be entered manually. This option must be activated to do this. In this case, the "Manually finished" field is then available in Production - Position.
Name UDF 1	User-defined field
Name UDF 2	User-defined field
Name UDF 3	User-defined field
Name UDF 4	User-defined field

Bill of Materials

Name	Description
Prices Changeable	Determines whether the planned prices are displayed in the BoM window and can be changed. ***See*** Production – BoM position

Routing

Name	Description
Scheduling by Personnel	If active, routing positions are assigned to employees
Prices Changeable	Determines whether the planned prices are displayed in the routing screen and can be changed.

3.1.3.6.3.1 Material requirement

PATH: Administration > System Initialization > Configuration wizard > Production > Display.

Parameters

Name	Description
Multi-level display for assemblies	⊟ Multi-level display Affects Work order structure - right-click on assembly -Reservation function -Material requirement list (Standard) -Material issue -Allocation (Standard) If this option is enabled, the material requirement of the currently selected assembly plus all sub-assemblies will be taken into account.

© 2026 Boyum IT Solutions A/S

	Only visible if default material requirement list is used. *(Variable ftstr_listmulti)*
Material requirement with purchase	Order directly from material requirement list Only visible, if "beas2009" is used. This option is only available for compatibility reasons. If enabled, from material requirement list a purchase order can be created directly. *(Variable ftstr_purchase)*
Material requirement, Extended display	Display of information from inventory history **Enabled:** If extended view is enabled, additional information is displayed, and the system reads more information. **The following additional information is available:** Planned production inflow Planned production outflow Stock on blocked warehouses Reservations on sales orders Stock: blocked batches are presented as "blocked stock" Minimum stock Maximum stock Balance For additional information on these fields ***see*** Inventory history Performance: This extended view is computationally extensive. With large amounts of data calculation may take considerably long. **Disabled:** If disabled, the above mentioned fields cannot be selected. Stock: all stock of all warehouses (except the blocked ones) are

© 2026 Boyum IT Solutions A/S

	displayed. Batch status is not considered. Note: In window settings all fields are available, but these described fields are not visible in the list itself. By default, Extended view is enabled. ***See*** Reservation window - Columns

3.1.3.6.4 FDC

Factory Data Capture (FDC) is a functionality to register production time and quantities.

PATH: Administration > System Initialization > Configuration wizard > Production.

Parameters

Parameter	Description
Time Linking	Determines consideration of regular working hours Depending on settings, the duration is computed when a Time receipt is created. **Notes on order time receipt** If working with attendance, set the option "Time linking" to "Shift definition + Attendance". In this case, the employee does not have to logoff from his ongoing work orders when he leaves.

Setting	Meaning
none	The total time of order logon and order logoff is taken. Breaks or attendance times are not considered.
Shift definition	The Shift definition stored in Personnel master is taken into account, including breaks. Rounding rules are not considered. ***Example:*** Shift definition 7:00–17:00, Break from 12:00–13:00. Order logon Start: 6:50, end 7:30, computed duration: 30 minutes.

© 2026 Boyum IT Solutions A/S

	Order start: 6:50, end 14:00, computed duration = 7:00–14:00 minus the break 12:00–13:00 = 6 hours. Order start 16:00 yesterday, end today 10:00. Computed: 16:00–17:00 and 7:00–10:00 = 4 hours.
Shift definition + Attendance	Next to Shift definition, stored in Personnel master the actual attendance is considered. Computing order time, the rounding rules stored in period rule are considered under certain conditions. Note: The attendances can only be considered if the capture is done via the BEAS system. Attendances which were imported via Integration HUB will not be considered at the time accounting of the order time. ***Example:*** Shift definition 7:00-17:00, break 12:00-13:00. Attendance: Arrival 6:50, Break from 8:00–9:00. Logon work order 6:55, logoff work order 14:00. Calculated duration: 7:00–8:00 = 1 hr. , after the employee was absent. 9:00–12:00 = 3 hrs, followed by lunch break. 13:00 –14:00 = 1 hr. Total: 5 hours.

© 2026 Boyum IT Solutions A/S

	For open attendance time (if not yet left) rounding rules are not taken into account at work order logoff. ***Example:*** Rounding rule 30 minutes. Order time receipt 15:00–15:45. Calculated 15:00–15:45 = 45 minutes. Note for setting up rounding rules: If the employee leaves differences may occur, as according to the rules, attendance ends at 15:30. When computing the start time, the rounding rule is considered only if this is the first logon of the day. ***Example:*** First arrival 07:05, work order logon 7:19. Calculated from 7:30. Arrival 7:05, Leaving 8:00, arrival 8:25, order logon 8:27. Calculated from 8:27.
	Note: Settings on parallel calculation are taken into account for all combinations. ***See*** Order time receipt, Shift definition; App Arriving /Leaving
Attendance linking	Linking FDC and attendance If active, the employee logs on automatically in attendance when registering to the first work order. He can also log off from attendance when creating a time receipt.

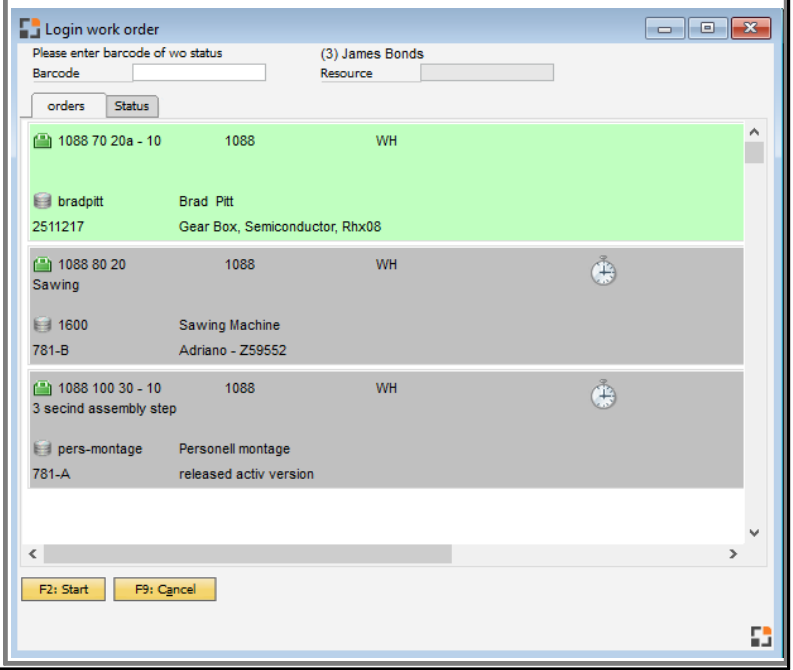
© 2026 Boyum IT Solutions A/S

	Note: This option links the attendance to an order time. This means that only those order times are considered when the employee was on duty. If you want to link the order times to attendance, use setting "Time-linkage" – "Shift definition + Attendance". This setting refers to the function Terminal – logon order and logoff work order. If active App "logon work order": The employee is logged on automatically in attendance, if he was not before. If the attendance logon is not possible, the work order cannot be started. App "logoff work order": A checkbox "logoff from attendance" is displayed. If it is disabled, after logging off from the work order the employee is logged off from attendance automatically (in case he was logged on.) *Variable: timebdekop, 1=on, 2=off*
Parallel calculation	Determines processing of parallel registered times If this option is activated (default), the work order times which have been reported parallel are split appropriately. If this is deactivated, each report gets the total time. NOTE: This parameter is only considered in Desktop Terminal WO Logon / WOLogoff and Web Terminal WO Start / WO Stop apps. Examples ***Example 1***: Logon working sequence A+B at 11 o'clock, logoff at 12 o'clock = total 1 hour Because they run parallel, only half is assigned (that is 30 minutes) to each working sequence. ***Example 2***: Logon working sequence A+B at 11 o'clock, logoff at 12 o'clock and B at 1 p.m.

© 2026 Boyum IT Solutions A/S

	Each working sequence gets 30 minutes between 11–12 o'clock, from 12 o'clock to sequence B are assigned 60 minutes. As a result, working sequence A gets 30 minutes and B gets 90 minutes. If the option is deactivated, the behavior changes. In example 1: A and B each get 60 minutes, in example 2: A = 60 minutes, B = 120 minutes. **Important:** Automatic distribution of reported times to resources does not work at quick input in lists. At parallel calculation for master-slave operations only the master operations are taken into account, because the part times are distributed to the slave operations.
Allow closing of operation sequences	If yes, the employee can close a work order via a terminal – even if there are quantity shortfalls.
Close operation sequence automatically	A position is closed automatically if the planned quantity is reported. **If activated** The system always closes the routing position automatically if the total time receipt quantity + scrap quantity >= planned quantity. If you clock in time receipt window on "F2 Partial complete", the system ignores this when this setting is activated. The system does not close automatically if a user is working on this routing position. **if not activated** The System only closes the routing position: - if you close this manually - if you click in time receipt window on F3 completion confirmation. ***See*** Production time Receipt - Partial complete
Security query at last working position	Activate security query if last operation has been received and assembly is posted in.

© 2026 Boyum IT Solutions A/S

	See Report production times
Login to work order: multiple login	Allows logon of multiple operation sequences in succession This setting relates to the window Login Work Order (not WEB-App) Instead of closing the window at a order logon, the window returns back to the operation sequence selection and the next operation sequence can be selected directly if this option is active. 
Time distribution Master-Slave	Determines time distribution for master-slave time receipts Default percentage Percentage of default time (default setting): The complete time is distributed on operations. Each operation receives a percentage part of the default time. ***Example***: Slave Pos 10 60 Minutes. Slave Pos 20 120 Minutes. Master Pos 30 20 Minutes. perceptual ratio : Pos 10 30% ; Pos 20 60%; Pos 30 10%. Note:

© 2026 Boyum IT Solutions A/S

Reported quantity is used as reference for calculating the planned time. For this reason, a quantity needs to be entered.

With time receipts for Pos 30 (Master-operation) of 10 minutes 2 time receipts are created.
Pos 10 30% of 10 Minutes = 3 Minutes.
Pos 20 60% of 10 Minutes = 6 Minutes.
Pos 30 10% of 10 Minutes = 1 Minute.
Total = 10 Minutes.

Note:
To work properly, this function requires a plan time and posted quantities.
With plan time 0 or without a quantity you will get incorrect results.

If no quantity was reported, the new reported quantity is posted to the master only. If a quantity had been posted before, the result will be a percentage of 0, thus no distribution.

Note:
If the Master operation has 0 time, the system can generate problems related with time receipts and material consumption.

- No distribution

Each operation gets the same time. Default time is not considered.
In the upper example with time receipt on Pos 30 with 10 Minute1, the following time receipts would be created.

Pos 10 10 Minutes; Pos 20 10 Minutes; Pos 30 10 Minutes.
Total: 30 Minutes. This concept is used in production lines.

- Planned time

© 2026 Boyum IT Solutions A/S

	Reported time for master operation, planned time for slave operation. Planned time is calculated: ((job time * planned quantity)+setup time) / planned quantity * reported quantity. Note: The smallest unit of a time receipt is the minute. Due to conversion rounding differences may occur. Parallel operations are not considered for slave operations. *Setup-Variable: timemasterslave P=percentual default time, E=no distribution*
Master-Slave not at Manual Message	Determines whether to create a time receipt by the Master for manually reported Slave-operations If a time receipt was created for a slave-operation, a second time reporting can be blocked by the Master, by enabling this option. ***Example*** with enabled option: Operation 10 = Master. Operation 20 = Slave. a) Reporting for 10: time receipt created for 10 and 20. b) Reporting for 20: time receipt created for 20. c) Reporting for 10: time receipt created only for 10, as there was already a manually reporting for 20. With disabled option, for c) time receipts would be created for both 10 and 20. Default: Option disabled. *setup-Variable: masterslaveman J/N beas9.0-004-000-000*
Order time receipt: Protocol	If enabled, at new creation, change or deletion (in this case a cancellation) a protocol is always created, even if there are no costs to be booked.
Material tracing based on operation	Material entries are linked to the registered production positions Material entries are mapped to the position currently registered.

© 2026 Boyum IT Solutions A/S

	This option also allows material tracing for partial notifications. For this purpose a temporary batch is created for each partial receipt to which the material is linked. **Attention:** This function requires an extended terminal which must be customized. Activate this option only if the according extensions have been installed and the concept has been developed completely. This option is only available in expert mode. Further effects: If a value > 0 is entered in the operation and the use factor and a batch number is entered in the order time receipt, the order time receipt is split. ***Example:*** Use factor = 10. Order time receipt = Quantity 5, time 10. 10 order time receipts are created each with 0.5 pieces each and a time of 1. *setup-variable ftaplcharge j/n*
Preliminary test entry in journal	Check whether journal entry is possible Upon the generation of a time receipt, a journal entry is created in the background by Beas using the SAP DI-API. Several problems may occur here. For example: blocked number range, no authorization, network overload, etc. In protocol, errors such as "DI API of _getbusinessobject 30: Error calling external object function getbusinessobject" are logged. These errors require a manual correction. With this option, a journal entry is simulated in advance. If no posting is possible, also no work order time is registered. This reduces the risk of differences in financial accounting significantly.

© 2026 Boyum IT Solutions A/S

	If the option is enabled, an account must be specified to which a test booking should be done. Note: By executing test postings, the network and the overall system is more stressed. In case of an "overload", proper measures must be taken.
Cost center determine by	Select how to determine cost center Define default cost center for time receipts. Beas uses this in the time receipt view as default. **Assembly/Material**: Determination via item from "Profit center" field. **Personnel:** Determination at time receipt via employee record.

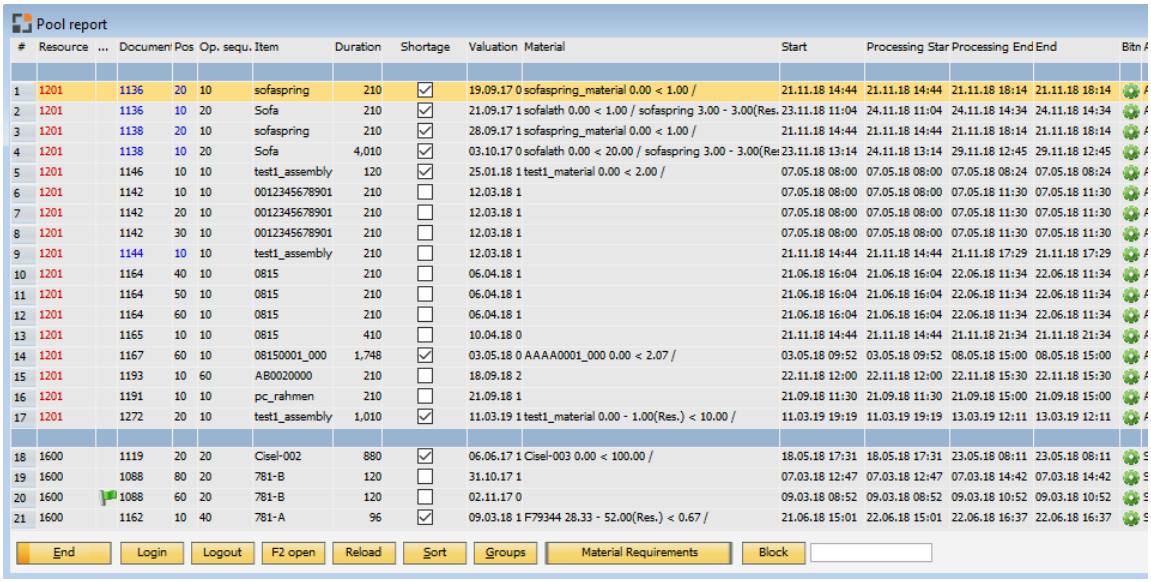
3.1.3.6.4.1 Pool report

PATH: Administration > System Initialization > Configuration wizard > Production > FDC

In the pool list you can see all fields of the routing positions of an assembly and the work order. Window settings and Templates are supported.

Configuration for Pool List

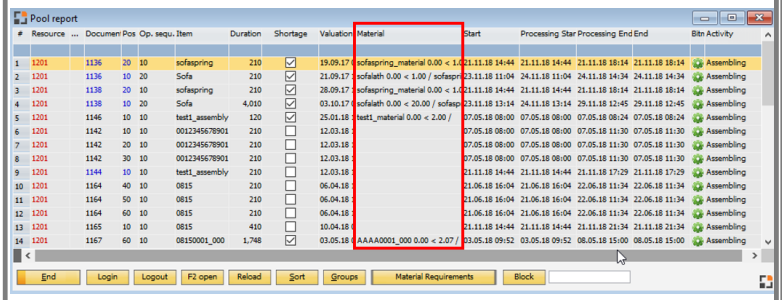
Production > Factory data capture > Terminal > Pool Report



Window bde_terminal_poolinfo.psr

© 2026 Boyum IT Solutions A/S

Parameters

Parameter	Description
Pool report with material check	☐ Activate / Disable Material check in Pool List A material control is performed simultaneously by default. The operations that cannot be processed due to missing material are indicated with an active checkbox in the "Shortage" column and grayed out.  *Window bde_terminal_poolinfo.psr* The calculation is performed online and delays the display accordingly. If the calculation is not required, this can be deactivated here. Performance notes Disable this function if Beas requires longer time to open this list.
Pool list: show only planned WO	☐ Only display work orders set to APS planned in the pool list. Use this setting if you work with the APS Plan Flag. ***See*** Work order - Settings - APS Planned
Direct logon logoff	If this option is enabled, one or more parallel work sequences are logged on and off in the pool list. The multiple selection feature is activated hereby. Multiple logon is only possible if permitted by the stored rules.
Dispatching index: Consider number of days	The default value is 99. Limits the number of days displayed in the pool report. Note: If you do not work with APS, insert a number between 10-99, otherwise you will not be able to see all Routing positions.

© 2026 Boyum IT Solutions A/S

See:

Pool Control

Capacity planning

Priorities

3.1.3.6.4.2 Logon/Logoff rules

PATH: Administration > System Initialization > Configuration wizard > Production > FDC.

Parameters

Name	Description
Work order must be set to planned	Logon via pool report or terminal is possible only if work order has been set to planned.
Operation may not be closed	Time receipt on completed work sequences is blocked by default. If you deactivate this option, it has the following effects: Work Orders - Expand, right mouse-click on a work sequence (green line): Selection "Time Receipt" is also displayed if the work sequence is completed. **Production Time Administration - new Message:** No Time Receipt but a blocking message appears at selection of a completed work sequence. Time receipt through "**new receipt > bar code**"or by Production Time Administration – Quick Input: The Input is possible without a further error message. Through **Logon/Logoff – Open Work Order**: It is generally not possible to register completed work sequences.
Material Inventory Test at Login	**Info:** If the inventory is insufficient, a message is displayed. **Required**: If the inventory is insufficient, the operation cannot be logged on. **No** (default): No inventory check is performed. For setup reporting, no inventory check is normally performed.
Time receipt only during presence	Enabled: It is only possible to log on and off when the attendee does not apply for activity tracking. As long as work orders are logged on, the employee cannot leave. ***See*** App "Leaving" *Variable: bde_nur_anwesend, Default=N*

© 2026 Boyum IT Solutions A/S

Attendance logoff: automatic logoff Work order	After attendance logoff from terminal, all work orders of the current user are automatically logged off, as well.
Previous op.sequ. must be completed	Logon to the operation is possible only if the preceding reportable operation was closed Note: Only the preceding reportable operation is checked. Affected: App "Logon order" and all extensions using this logon-object. **Not affected:** function "Report time receipt" ***Example*** 10 mandatory 20 not mandatory 30 mandatory <- if you want to make a receipt, the position checks Pos 10 10 not mandatory 20 mandatory <- if you want to make a receipt, the system does not check previous positions
Previous routing position with quantity confirmation	Enabled: Logon is only possible if a quantity was reported in the preceding routing position **IMPORTANT:** The system allows to do the login only if the quantity of the current position is less than the quantity reported by the previous operation. If the quantity is equal or more, the system will not allow to do the login. This parameter takes effect only when "clock mandatory" is active for the previous operation; in other case the parameter is ignored. ***Example*** 10 mandatory 20 not mandatory 30 mandatory <- if you want to make a receipt, the position checks Pos 10

© 2026 Boyum IT Solutions A/S

	10 not mandatory 20 mandatory <- if you want to make a receipt, the system does not check previous positions
Previous QC must be OK	If the previous reportable position has a QC plan, the following is checked: 1. Does the inspection plan exist for this position? 2. Are all samples okay? If the answer to both is not Yes, you cannot log on to the subsequent position. In this case, an error message is displayed: Error message ID: **afoanmqs9435** *'(afoanmqs9435) In work sequence 20 the QC-inspection has not yet started. Registration is not possible!'* ***Example*** 10 mandatory 20 not mandatory 30 mandatory <- if you want to make a receipt, the position checks Pos 10 10 not mandatory 20 mandatory <- if you want to make a receipt, the system does not check the previous positions. ***See*** Configuration wizard – QC-create new Quality control – Concept Routing
Confirm at least previous quantity	At least the amount of the previous operation sequence needs to be reported. The rule takes effect only from the second operation sequence. ***Example 1***: Operation sequence 1: reported 10 yield, 5 scrap.

© 2026 Boyum IT Solutions A/S

	Confirmation on the second operation with option enabled. Report 5 yield-> blocked. At least 10 need to be confirmed. Report 5 yield, 5 scrap -> : OK, minimum quantity of 10 is reached. ***Example 2***: Operation sequence 1: report 5 yield, 0 scrap. operation sequence 2: report yield 4, 1 scrap -> OK. operation sequence 1: another 3 reported, 0 scrap. Confirmation on the second operation with option enabled: Minimum quantity according to operation sequence: 8. Already posted to 2nd operation: 5 (4 yield, 1 scrap). Minimum quantity for the next posting to the operation sequence 2 : 3 pieces. It is recommended to combine this option with "maximum previous quantity reportable".
Confirm at most previous quantity	At most, only the quantity of the previous reportable position can be reported. If nothing has yet been reported in the previous position or if the corresponding quantity was already reported in this position, the yield quantity input field is blocked. This check does not refer to the first confirmable operation sequence, but only to the subsequent one. It determines whether not more than the quantity of previous operation sequence may be confirmed. Yield and scrap quantity is taken into account. ***Example***: Operation sequence 1: confirmed 10 yield, 3 scrap. Operation sequence 2: confirmed 5 yield, 3 scrap. For operation sequence 2 only 2 remaining pieces may be confirmed. Affected: work order time registration and external operation - collective purchase. Note: If the previous routing position is an external resource, the quantity is the sum of purchase-order goods-receipt quantity, minus the quantity reported in the purchase goods returns.

© 2026 Boyum IT Solutions A/S

	Attention: If the maximum quantity is exceeded, an error message is issued: *'(maxqty0243) Maximum purchase quantity exceeded! (Max. quantity due to time receipt of preceding operation)'*
Max. planned quantity reportable	No more than the planned quantity can be reported This refers only to the first confirm able operation and determines whether as maximum only the planned quantity may be produced. Scrap is not taken into account. ***Example***: planned operation sequence of 10 pieces. 1st confirmation: 8 yield, 2 scrap. 2nd confirmation: only 2 additional pieces are permitted. This check is only performed when creating a new order-related time receipt, not when changing an existing receipt. It takes place at the moment the time receipt is saved.

Important: The rules only apply to time reports, not to purchase orders on external operations.

3.1.3.6.4.3 Window: Work order logon

PATH: Administration > System Initialization > Configuration wizard > Production > FDC.
Settings here affect Terminal (PC) – "WO logon". ***See*** WO logon

Note: This setting does not affect WebApps.

Parameters

Parameter	Description
Only current Pool	Logon work order: Enabled (Default): Only production routings of the current pool are shown. ***See*** Pool administration. Disable this option if the display is too slow and the pool function is not required. *(beas 9.2 PL: 04, pool)*
Resource manually changeable	If enabled, after WO selection the resource can be selected per bar code or scanner manually. In other cases: make selection from the list. Only resources which are allocated to the employee and to the operation are displayed. Default: Disabled.

© 2026 Boyum IT Solutions A/S

	(*Variable fdclogonresource*
Work order logon: Multiple logon	Enabled: After work order logon you can register the next work order without logging in again. This option is not considered if you log in via Pool report. (Note: Until beas 9.1 PL:08 this option was in the "FDC" and has been moved to this area)

3.1.3.6.4.4 View time receipts

PATH: Administration > System Initialization > Configuration wizard > Production > FDC.

These options relate to **Terminal > Order logoff.**

Parameters

Parameter	Description
Manual input complete	Permits the entry of assembly quantities that should be reported as finished without being posted (***see*** Work order item – master data tab).
Time entry mandatory	If enabled, duration is required.
Logoff order by	Determines who may logoff a running work order

who logged on	0	Only the person who logged on the order may logoff. (= Default)
all, order time for person who logged on	1	Anyone can logoff the order. The order time is assigned to the person, who logged on. Note: You cannot determine who logged on the order.
all, order time for person who logged off	2	Anyone can logoff the order. The order time is assigned to the person who logged off.

beas9.0-004-044-000, bde_logoffuser

Field "Duration" blocked	If enabled, the calculated duration cannot be modified. Default setting: Disabled. If "clocking mandatory" is enabled in parallel, an immediate time receipt may not be possible.

© 2026 Boyum IT Solutions A/S

<table>
<tr><td>Suggest Residue</td><td>Should the remaining quantity be suggested automatically at confirmation reporting? For further information see Production Time Receipt.</td></tr>
<tr><td>Quantity entry mandatory</td><td>Required entry of yield or scrap quantity.</td></tr>
<tr><td>Show time from-to</td><td>If the input of the from-to time is required in addition to the duration, you must activate this option.</td></tr>
<tr><td>Entries over several days</td><td>If multi-day messages are issued without a partial receipt, you must activate this option.</td></tr>
<tr><td>Short View</td><td>If this option is activated, all information fields are hidden.</td></tr>
<tr><td>QC Order open</td><td>If a QC order has been stored, set up whether to open automatically
<table>
<tr><td>No:</td><td>No automatic opening</td></tr>
<tr><td>Yes:</td><td>Main page of QC order opens</td></tr>
<tr><td>Yes, by piece:</td><td>Tab "entry piecewise” opens and immediately the window for the final sample</td></tr>
<tr><td>Yes, by test:</td><td>Tab "entry per test” opens</td></tr>
<tr><td>Yes, after test - last sample:</td><td>If enabled and a QC order is stored, the window "after test" of the last sample opens when creating time receipt. A selection of the sample is not possible.</td></tr>
</table></td></tr>
<tr><td>Post back scrap material</td><td>For further use of the scrap material. Enable to get a list of issued items in the cancellation window after the issue process. In this window scrap quantities can be pre-allocated and posted back to the original warehouse.
See: Post-back screen for scrap: WO cancellation window.</td></tr>
<tr><td>Name UDF 1</td><td>User-defined field.</td></tr>
<tr><td>Name UDF 2</td><td>User-defined field.</td></tr>
<tr><td>Name UDF 3</td><td>User-defined field.</td></tr>
<tr><td>Name UDF 4</td><td>User-defined field.</td></tr>
</table>

In the logoff screen there is a button called "intermediate report". The behavior can be set here.

PATH: Administration > System Initialization > Configuration wizard > Production > FDC > View time receipts.

© 2026 Boyum IT Solutions A/S

Parameters

Name	Description
Deactivate Intermediate report	When **unchecked** (default), it is possible to create an Intermediate report in the Production Time receipt. The current production receipt with time and quantity specifications is completed and automatically restarted, using the same user, without having to log off/on again. When **checked**, this parameter closes the time receipt for the active production, and the system operates as in the case of a partial receipt. Intermediate report is not possible.
Quantity entry mandatory for partial receipt	Here you can specify separately whether a quantity input is mandatory for this button.

3.1.3.6.5 Material posting

Settings for manual postings and for backflushing of BOM items.

PATH: Administration > System Initialization > Configuration wizard > Production.

Parameters

Name	Description
Material valuation	Select pricing. Setting is visible only if continuous stocktaking was disabled. **Like manual posting Pricing** according to **Materials management > Manual postings > purchase parts/in house production > pricing posting.** **Price list per warehouse** In **warehouse definition > extended** for issuing material a price list can be stored. The price list is used when selecting this option. If no price is entered, pricing according to materials management is used. General note: pricing according to price list for production issue: extended price lists or special price lists are not considered.
Automatic Material posting	Specifies how the material is backflushed. Note: Check settings also under backflushing.

© 2026 Boyum IT Solutions A/S

Important: This option does not affect the reservation window and allocation window.

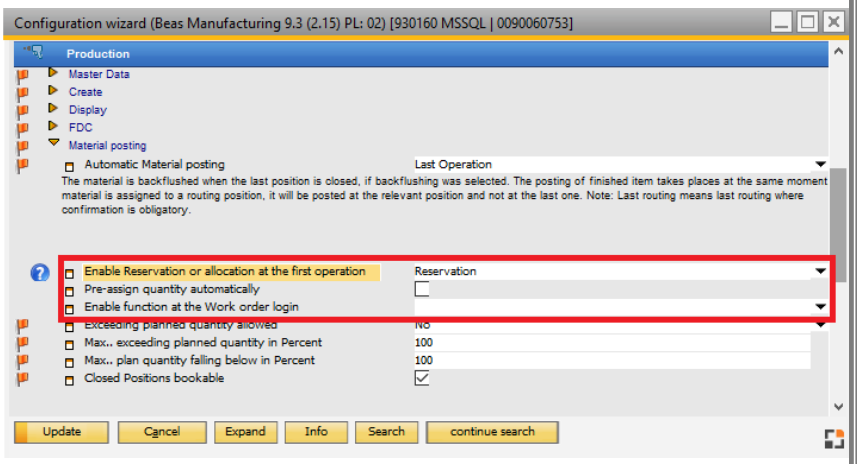
Not Automatically	No automatic issue.
Work order Backflushing	Backflushing issue and automatic posting of the assembly is executed using the function Work order backflushing. Note: No issue at reporting operations. No posting of assembly at confirmation of the last operation. With Goods receipt the option Work order backflushing – book times automatically is considered.
Last operation	Issue takes place when reporting the last operation with "clocking mandatory". All items are posted which have "Backflushing" as posting option in the inventory entry and which are not allocated to a position. If an item is allocated to another position, it is entered when the corresponding position is reported. The function "**Materials management > backflushing**" is blocked in this case.
First Operation	Same as "Last operation" but at the moment reporting the first operation.

Note: These settings only affect Beas (standard PC Version). WebApps can have a different behavior.

This setting can be overridden by production types.
Exception: If the second option "work order backflushing" was selected.

See: Production types, Backflushing

© 2026 Boyum IT Solutions A/S

	Variable: fert_buchung_typ
Enable Reservation or allocation at the first operation	Enables the calling of the allocation or reservation window at the first operation. With this feature you can define if the system should call the reservation window or allocation window. If set to inactive (or no setting), no reservation/allocation is done and the subsequent two options are not visible. **Reservation**: This option calls the reservation window. **Allocation**: This option calls the allocation window. **inactive**: This option does not call any of these windows at the first operation.
Pre-assign quantity automatically	If this option is checked, the quantities for all Items will be pre-assigned automatically. Otherwise, the window is only opened without any assignment.
Enable function at the Work order login	Defines the time that the reservation / allocation window is opened.  *Window system_option_struktur.psr* **No**: Nothing is defined, so the corresponding window is opened at the end at: - logging off from a WO, - a quick input, - a production time receipt.

© 2026 Boyum IT Solutions A/S

	only at the work order login: Window is only called when logging in to a WO. **work order login or time receipt:** Window is called when logging in to a WO or doing a manual production time receipt. This feature is supported in Terminal apps: Login work order , Logoff work order, Production Time Receipt and Quick Input.
Exceeding of planned quantity allowed	Determines whether more or less than the planned quantity may be issued. Planned quantity is as given in work order +/- percentage of next setting below. **Select mode of exceeding planned quantity:**

Setting	Meaning
Yes (default)	Allowed, without check (I).
Yes, with protocol (I)	Allowed. Errors are logged, and the work order is marked red in that case (IP).
No	Not allowed. Issue is canceled (B).
Query	Security query (Q). Note: Not supported in WebApps. The system uses "No" automatically.
Query with protocol	Security query (Q). If no material is issued a protocol entry is created for the work order, and its marked red. Note: Not supported in WebApps. The system uses "No" automatically.

Provide percentage:

Setting	Meaning
Maximum in Percent	The permitted overshoot of WO planned quantity. Maximum = planned quantity + (planned quantity * %)

© 2026 Boyum IT Solutions A/S

Setting	Meaning
Minimum in Percent	The permitted undershoot of WO planned quantity. Minimum = planned quantity - (planned quantity * %)

Percentage values: 1-99
0 = planned quantity
100 = no validation

Example:
Maximum in Percent = 50
Minimum in Percent = 50

Work order with 10 Pcs, Bill of Materials position 1 Pcs
Max. Material = 10 + (10/50*100) = 15 Pcs
Min. Material = 10 - (10/50*100) = 5 Pcs

The Minimum/Maximum percentage is calculated based on TOTAL quantity in:
- BoM position - conversion UoM
- BoM position - material scrap
- Scrap reported quantity for a produced item
- Operation factor

Parameter application per Apps/Functions

App/Function	Desktop	WebApp
Work order single issue	No	n.a.
Work order material Issue (multiple)	Yes	No
Work order Receipt – check material	No	No
Work order Time receipt	Yes	Yes
Work order Start/Stop	Yes	Yes

© 2026 Boyum IT Solutions A/S

App/Function	Desktop	WebApp
Work order Backflushing	Yes	Yes
External: Issue Provision parts	Yes	Yes
Data Integration Hub	No	n.a.

IMPORTANT:

- This setting is ignored by the Manual issue window.
- In WO Material Issue the system checks the maximum allowed quantity based on the total planned quantity.
- In Production Time receipt and material backflushing, partial receipts are supported and the Max/Min values are related to receipt quantity.
- Allocation and Reservation rules are not applied.

Using the parameter over Object or BSL:

The rules of this parameter are not applied over BSL or BeasScript.

Maximum in percent

Enter percentage by which planned quantity may be exceeded.

The permitted overshoot of WO planned quantity. Maximum = planned quantity + (planned quantity * %)

Value range: 0–99%. No validation in case of 100%.

Option is visible only if "**Exceeding of planned quantity allowed**" was not set to "Yes"

See "Exceeding of planned quantity allowed" above.

Variable: fert_permorpostmat, Default: 100 (in Percent, 100 = no check)

Minimum in percent

Enter percentage by which planned quantity may be underrun.

The permitted undershoot of WO planned quantity. Minimum = planned quantity - (planned quantity * %)

Option is visible only if "**Exceeding of planned quantity allowed**" was not set to "Yes".

See "Exceeding of planned quantity allowed" above.

beas9.0-004-000-000, Variable: fert_perminpostmat, Default: 100 (in Percent, 100 = no check)

© 2026 Boyum IT Solutions A/S

Closed positions bookable	If enabled, you can issue closed material positions. Affected only window "post manually" - Type "production" and only, if the position was selected by direct input or via barcode, the logged in user is a Superuser or he has the respective Rights. For more information ***see*** Authorization

See

Backflushing

Account setting

Webinar 8/2017, Part Configuration

Webinar: Financial accounting in beas Manufacturing

3.1.3.6.5.1 Backflushing

The attitude for backflushing or pre-allocation functions in reservation or allocation window can be defined here.

PATH: Administration > System Initialization > Configuration wizard > Production > Material posting > Backflushing.

See

Display - Material requirement

Reservation requirement report

Reservation

Material issue

Allocation

Parameters

Name	Description
Issue quantity changeable	Determines how material is backflushed. Backflushing is performed according to settings "Material issue automatically at" via backflush work order or at the moment of time receipt (confirming an operation). Possible settings:

© 2026 Boyum IT Solutions A/S

Set.	Description
No	The quantity to be issued is automatically pre-allocated. ***See*** Material issue – pre-allcoate marked entries). Batches, Serial number, bin locations, reservations and all rules are taken into account. Negative BoM items are posted in automatically if: - it is a normal item, - it is not in a bin location warehouse, - automatic number determination was activated for batches and serial numbers. ***See*** Edit BoM position – Quantities In case of quantity differences there is a query, ***see*** Behavior at quantity discrepancy. Note: If option "Posting from allocation warehouse" a warehouse was stored, only this will be considered. When working with batches and disabled automatic batch determination, but the BoM contains batch-related items, the following scenarios are possible: WEB-Service/Server mode: batch items are not issued. Normal mode: The Standard issue window is opened, where the batches can be selected.
Yes	The Standard issue window is opened (issue material). Material to be issued will be pre-allocated. Pre-allocation for batches and serial numbers is also supported. For bin location items the stored sorting of withdrawal (priority) is considered. The reservation system is fully supported.

© 2026 Boyum IT Solutions A/S

Set.	Description
	Reservation system is fully supported. Scanners are supported. Assignment Serial number – Serial number is possible. Negative BoM items are posted in. ***See*** above setting "NO" and Edit BoM position – Quantity.

beas 2009 Variants

Yes beas 2009, no beas 2009

With Beas 9.3 PL 3 you cannot use this settings. If defined in a previous version, it does not work in newer ones.

Note: This posting function is disabled as of early 2020 and is not available any more.

Behavior at discrepancy of quantity

Setup scenario in case a different quantity is indicated than planned at material backflushing.

Setting refers to window "quantity changeable" but it is also visible of quantities are not changeable, because this window opens for example then, if batches or serial numbers could not be withdrawn automatically.

Setting	Description
Query	Query whether backflushing is to be performed with the indicated quantities
Allow	Book immediately, no query
Block	Selected quantity and default quantity have to match, otherwise the procedure cannot be completed.

Note:

© 2026 Boyum IT Solutions A/S

	Refers only to backflushing processes WEB-applications may have different behavior *fert_retrabchk, N=Allow;A=Query;L=Block, Standard=A*
Issue only from default warehouse / Bin	☐ Activate to restrict warehouse selection If option is enabled, only the warehouse/Bin location set up in BoM is displayed for selection at backflushing. No issue from other warehouses (e.g. allocation warehouse) is available. Exception: At automatic allocation, in case goods are located in another warehouse/bin, they are used from there.
Accept Function "Adjust and Enter"	At shortfall of stock: Allow "posting with adjusted quantity ? If not, the process is canceled.
Consider cut-off quantity	☐ At time receipt: shall the cut-off quantity be considered calculating the charge-off quantity? **YES**: Generally at reservation, material posting etc. **NO**: only at planning, not at reservation, allocation, issue **Not at backflushing**: affects only the function "backflushing" (eg. time receipt with last operation) *(from beas9.0-000-003-002).* scrap quantity is ignored. This option is not available at "Quantity changeable = beas2009-Version" **IMPORTANT:** If material is posted with the time receipt and in field "scrap" a quantity is entered, select setting: "**only at backflushing**" as otherwise too much material could be issued ***Example*** Production quantity 10 pcs, planned cut off for assembly Reported: 10 pcs If the option was enabled, the planned 5 pieces off-cut are taken into account issue quantity = 15 * BoM quantity

© 2026 Boyum IT Solutions A/S

	If the option was disabled, only the material of the reported order quantity is posted, in this case: issue quantity = 10 * BoM quantity Note: Settings have no effect on the cut-off stored in the BoM. ***See*** Cut-off Work order position - Assembly tab - Cut-off
Scrap consider	Select "Yes" to consider scrap, and "not at backflushing issue" to omit the consideration of scrap at backflushing issue.
Scrap at reporting negative BOM	**Yes:** scrap quantity can be entered reporting negative BoM quantity **No:** no scrap can be entered reporting negative BoM quantity
Also post batches	⊟ Should batchnumber managed items are also backflushed? Pre-allocation function (reservation, allocation) and backflushing function affected For batch-managed items, the inventory posting cannot be set to backflushing (***see*** Item Master Data - Issue method). The backflushing function of Beas allows the automatic booking of batch-managed items as well. This option can be activated if its booking is generally desired. Batches can be received and issued using "backflushing". **Setting** / **Description** Yes – Batches are pre-allocated and backflushed (issued). No – Batches are not made available for backflushing. In this case only a Goods issue is possible. ⊟ The setting can be defined via script at the automatic pre-assign

© 2026 Boyum IT Solutions A/S

Click on the cogwheel symbol right next to the selection to enter a script.

Available variables:

`e_backflush_itemcode` = the Material number
`e_backflush_belnr_id` = the Work order number
`e_backflush_belpos_id` = the Work order position number
`e_backflush_pos_id` = the Bill of Materials position

Return:
`return failure`: no automatic pre-assignment
`return success`: Charge (or serial) will be pre-assigned automatically

Example:

```
// backflush only if Item udf "u_backflush"=Y
select "U_backflush" into ls_backflush from "OITM" wher
    "ItemCode"=<e_backflush_itemcode,dbstring>
if <ls_backflush> = Y then
    return success
end if
return failure
```

fert_rserie (N=No, J=Yes)

Automatic batch/serial issue by

Which criterion applies for automatic withdrawal of batches/serials for reservation, allocation or charge-off

When active, batches/serials are assigned automatically.

Possible selection:

Type	Description
No	no automatic selection
Batch Number	Withdrawal by batch/serial number
Batch Attribute	Withdrawal according to certain attributes
Release Date	withdrawal by date, FIFO type (First in, first out)

© 2026 Boyum IT Solutions A/S

	<table><tr><th>Type</th><th>Description</th></tr><tr><td>Manufacturing Date</td><td>withdrawal by date, FIFO type (First in, first out)</td></tr><tr><td>Expir. Date</td><td>withdrawal by date, FIFO type (First expired, first out)</td></tr></table> Note: The combination "No" with also post batches set to Yes" and issue quantity changeable set to "No" will lead to errors, as batches are to be posted, but quantities may not be changed. Sorting affects inventory list in material issue screen, in reservation and allocation window. ***See*** Reservation window Inventory list If the batch quantity is not sufficient, (for example due to blocked batches) only the available quantity will be posted. ***See*** Reservation window – pre-allocate Material posting – pre-allocate marked Pre-allocation – extended rules
Issue blocked batches	What to do with blocked batches during backflushing <table><tr><th>Selection</th><th>Description</th></tr><tr><td>blocked batches not selectable</td><td>blocked batches are not displayed for selection *(fert_apoblockbatch=H=Standard setting)*</td></tr><tr><td>manually</td><td>blocked batches can be selected after a warning message *(fert_apoblockbatch=M)*</td></tr></table>

© 2026 Boyum IT Solutions A/S

	Selection / **Description** allowed — blocked batches can be selected without query *(fert_apoblockbatch=J)*
Batch Balance issue (issue remaining batches)	Determines in which case remains of batches are charged-off: At final posting (order time receipt – completion confirmation) or at any other backflushing process. ***See*** Edit bill of materials – issue remaining batches *Variable fert_restchargeoff, (A)llways, (C)lose-Message, default A*
Also post serial numbers	Should serial managed items are also backflushed? For serial number-managed items, the inventory posting cannot be set to backflushing (***see*** Item Master Data - Issue method). The backflushing function of beas allows the automatic booking of serial number-managed items as well. This option can be activated if its booking is generally desired. This option then automatically applies to all serial number-managed items. **Important:** Serial numbers can only be issued using "backflush".

Set.	Description
Yes	Serial numbers are pre-allocated and backflushed (issued).
No	Serial number items are not made available for backflushing. In this case only a manual issue is possible.

The setting can be defined via script at the automatic pre-assign

Click on the cogwheel symbol right next to the selection to enter a script.

Available variables:

`e_backflush_itemcode` = the Material number
`e_backflush_belnr_id` = the Work order number

© 2026 Boyum IT Solutions A/S

	`e_backflush_belpos_id` = the Work order position number
	`e_backflush_pos_id` = the Bill of Materials position
	
	Return:
	`return failure`: no automatic pre-assignment
	`return success`: Charge (or serial) will be pre-assigned automatically
	
	Example:
	
	`// backflush only if Item udf "u_backflush"=Y`
	`select "U_backflush" into ls_backflush from "OITM" wher`
	`"ItemCode"=<e_backflush_itemcode,dbstring>`
	`if <ls_backflush> = Y then`
	`return success`
	`end if`
	`return failure`
	
	fert_rserie (N=No, J=Yes)

Posting from allocation warehouse	⊞ Backflushing: issue from which warehouse? If a warehouse is entered here, at Issue - automatic pre-assignment only this warehouse will be taken into consideration. In case of automatic backflushing without query only this warehouse will be used. If the quantity is set to "changeable" other warehouses can be selected. Note: An allocation warehouse can be set up per work station. In contrast to this setting, such setup has only effect on withdrawal sorting. See: Allocation window Edit warehouse master data to define allocation warehouses. This effects the warehouse selection field in Allocation window.
Material posting with scanner	⊟ Determine scanner support in reservation / allocation / charge-off screen

© 2026 Boyum IT Solutions A/S

	The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings: **Production > Material posting > Backflushing >** Material posting with scanner. **Active:** A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found. If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued. **Inactive:** Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field. Serial number: quantity is accepted immediately. Item: entry selected, cursor is set to quantity field. If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity. Error messages are issued in no case. ***See*** Configuration wizard – Material posting with scanner Reservation Material issue Allocation External operation Allocation External operation issue *fert_scanbatchqty (J)*
Required quantity 0 display	⊟ Display BoM items with requirement quantity 0 Setting affects Reservation / allocation / provision and issue window as well as material requirement list. Active by default: BoM items with requirement quantity less or equal 0 are displayed.

© 2026 Boyum IT Solutions A/S

	Inactive: BoM items with requirement quantity 0 are displayed only, if in **list - right-click Filter "all"** was selected. ***See*** Reservation requirements list Reservation Material issue Allocation *beas9.0-000-0033-008*, *fert_viewplan0qty*
Reservation, Material issue - extended display	Determines whether to show inventory history information Setting affects reservation window, allocation window, provision and material issue window. **Enabled:** If extended view is enabled, additional information is displayed, and the system reads more information. **The following additional information is available:** Planned production inflow Planned production outflow Stock on blocked warehouses Reservations on sales orders Stock: blocked batches are presented as "blocked stock" Minimum stock Maximum stock Balance For additional information on these fields ***see*** Inventory history Performance: This extended view is computationally extensive. With large amounts of data calculation may take considerably long.

© 2026 Boyum IT Solutions A/S

	Disabled: If disabled, the above mentioned fields cannot be selected. Stock: all stock of all warehouses (except the blocked ones) are displayed. Batch status is not considered. Note: In window settings all fields are available, but these described fields are not visible in the list itself. By default, Extended view is enabled. ***See*** Reservation window - Columns Display - Materials requirement Reservation Requirement list Reservation Material issue Allocation *reswinext*

back to material posting

3.1.3.6.5.2 Account settings

PATH: Administration > System Initialization > Configuration wizard > Production > Material posting.

Parameters

Name	Description
Cost center determine by	Define whether and how the cost center for issue will be determined **Available settings:** No: No determination of cost centers. Assembly: Cost center as per superordinate assembly. ***See*** Item master – General – Cost center. Material: Cost center according to material. ***See*** Item master – General – Cost center.

© 2026 Boyum IT Solutions A/S

	Note: Via extensions in "workordermanagement" you can extend the cost center. ***see*** BeasScript Documentation "workordermanagement.src". *Variable: ftstl_profitcenter*

back to material posting

3.1.3.6.6 Work order backflushing booking

These settings affect the following functions:

- Desktop version Work order backflushing
- WebApp WO Backflushing
- Manual receipt window.

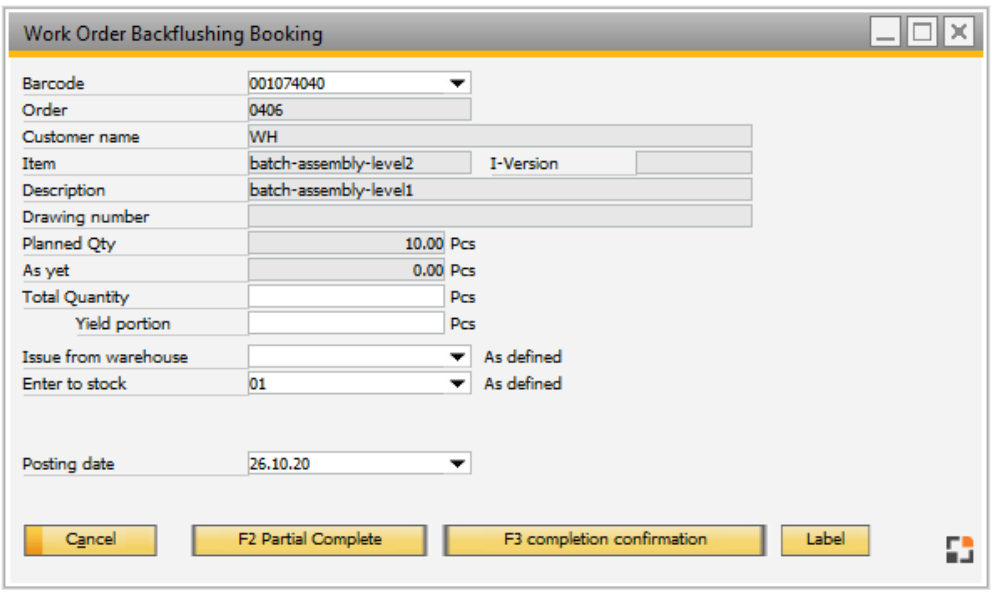
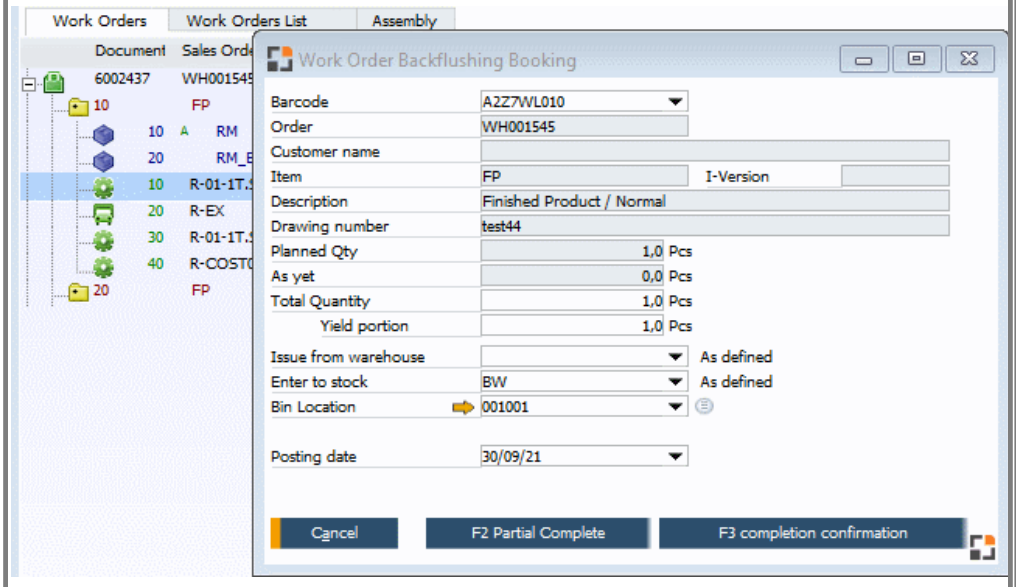
They are visible only if in Configuration wizard > Production > Material posting > Material posting automatically at "Work order backflushing" was selected.

PATH: Administration > System Initialization > Configuration wizard > Production.

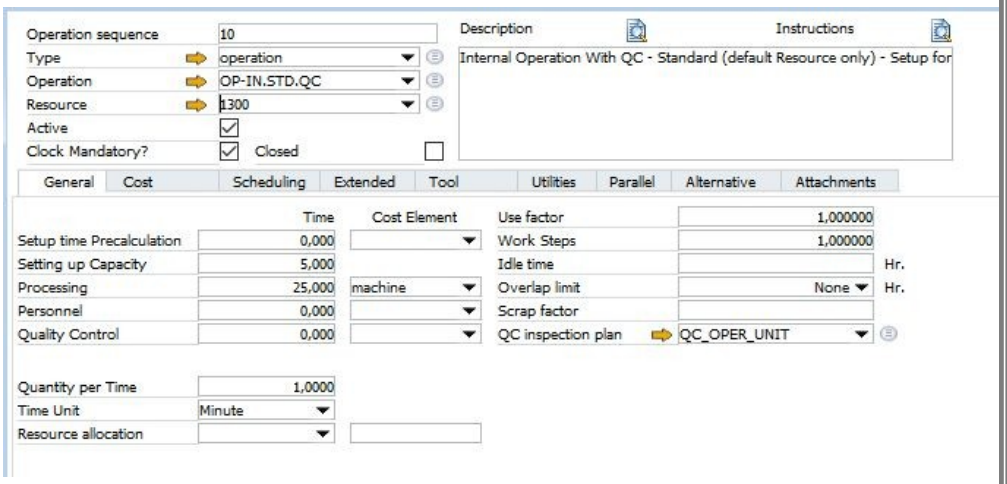
Parameters

Name	Description
Selection warehouse location issue Selection warehouse location at receipt	Activate the warehouse fields for issue and receipt process in backflush window Standard: use default warehouse defined in work order or in issue process related to issue rules. If you activate this setting, the user as additional fields: "Issue from warehouse" and "Enter to stock"

© 2026 Boyum IT Solutions A/S

Name	Description
	 Note for receipt: If the receipt warehouse is changed, problems may arise with the WIP account. That is why this option should not be activated when working with different warehouse-dependent WIP accounts.
Book times automatically	When active, planned times are reported as actual times confirming the last position. If this option is activated, the times are also automatically booked in the backflushing process. 

© 2026 Boyum IT Solutions A/S

Name	Description
	This function is available in Work order backflushing WebApp WO Backflushing Manual receipt for work order (only if ".. to employee" is defined !) It creates time receipts for the following routing position: - Clock mandatory is activated - Routing position is active - Duration time is defined - Routing position - Extended - "Block login" is disabled. **The default time is computed as follows:** First confirmation: `(planned processing time per unit * reported quantity) + setup time` Second confirmation: `(planned processing time per unit * reported quantity)`  Setup Time: field "`Setting up Capacity`" Planned processing time: field "`Processing`" For correct calculation, the system checks Quantity per, Time Unit, Use factor and Work steps. "`Personnel`", "`Quality Control`" Parallel resources are supported.

© 2026 Boyum IT Solutions A/S

Name	Description
	Fix times (Quantity per time=-1): The system calculates `Processing time / reported quantity` Only Cost type for processing is supported. Master Slave settings are ignored. The system creates the time receipt for all routing positions. Quality control orders in Routing positions are supported. Start/End Date for time receipt is Current or the Date defined in the receipt/backflushing window. Employee in time receipts is the currently logged in employee. For more information ***see*** setting "..to employee no" below. **ALTERNATIVE METHOD** As an alternative, use the option in **Configuration wizard > Calculation > Post-calculation > "Plan=Actual if no time receipts"**, or use the valuation method in **Configuration wizard > Production > Valuation and Posting of assembly - Valuation -** planned costs.
... To employee no	Only displayed if option above "Enter times automatically" was enabled. Define t the employee number can be entered here for automated booking, if no employee is connected. **Terminal / WEB APP**: The system use always the current logged in Employee and ignore this setting **Beas Desktop**: If an Employee is linked to current use, it use the linked Employee, otherwise this setting.

see Material posting, backflushing

3.1.3.6.7 Valuation and Posting of Assembly

Settings with effect on valuation and posting of assemblies

PATH: Administration > System Initialization > Configuration wizard > Production.

Valuation

Account determination

Posting

Close work order item

Serial number

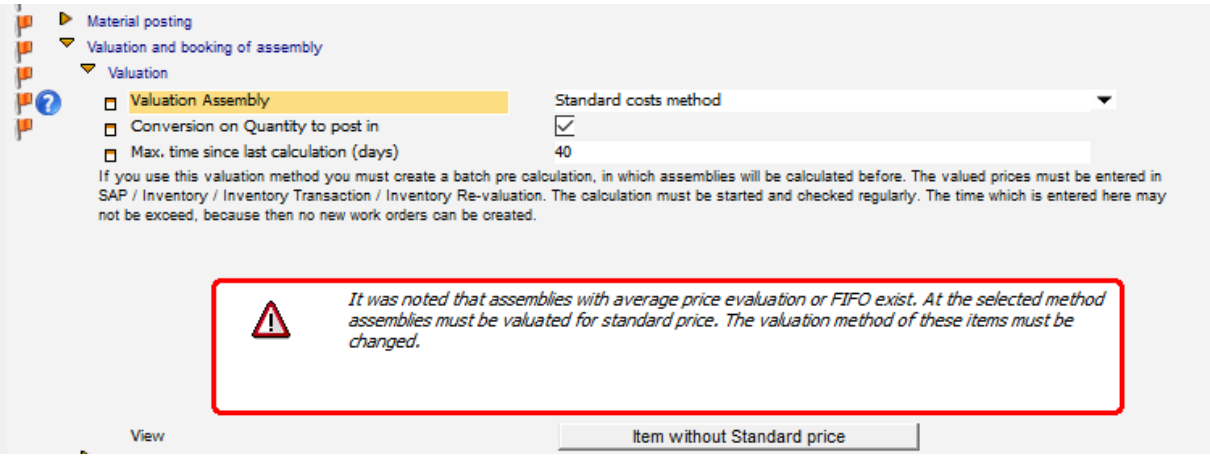
© 2026 Boyum IT Solutions A/S

Batch management

Product cost determination
Webinar: Financial accounting in beas Manufacturing

3.1.3.6.7.1 Valuation

PATH: Administration > System Initialization > Configuration wizard > Production > Valuation and Posting of Assembly.



Webinar Product cost determination

Parameters

Valuation Method	Description
Valuation Assembly	Determines at which price the assembly is posted in

Option	Which costs are used?
As Manual transfer	It is posted at a fixed price. ***See*** Pricing types.
Production planned cost	Partial and final posting at planned costs Problems related to valuation at planned production costs With this method, items are valued at the Precalculation price. The Precalculation (single step, based on the production assembly) is performed at the moment the

© 2026 Boyum IT Solutions A/S

Valuation Method	Description

Option	Which costs are used?

assembly is posted in. This way it is ensured that the Precalculation is up-to-date.
Which price to be used from Precalculation can be set up in **Pricing > Valuation.**
Precalculation is performed via concurrent post-calculation. Accordingly, post-calculation settings apply.

Valuation of material
In the **Configuration wizard > Calculation > Post-calculation > "value planned costs"** the valuation of material can be set up.

Precalculation price (Standard): In this case the price is used from Precalculation, from which the work order was created. Or as per Precalculation pricing at the moment of work order creation.

Note:
Depending on how much time passed between Precalculation and creation of the work order, the price may be outdated.
Setup in **Calculation > Precalculation > Material pricing**.
If in **Manufacturing > View > BoM** the option **"Prices changeable"** is enabled, the determined price can be viewed and changed in the production BoM item.

Posting price:This option is reasonable for selection if the value of the assembly is dependent on the material value. In this case, the price is determined based on the material price of the last issue on the respective material. Here, not the sum of the posted values is determined, but the price per unit is multiplied with the planned quantity. Then, the value of the assembly is not affected by scrap postings.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Valuation Method</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Option</th><th>Which costs are used?</th></tr>
<tr><td></td><td>Last purchase price, calculation price, moving average, etc.: Depending on the settings, the current entry at the date of valuation is used for valuing the material. Unlike the valuation at post-calculation price not the actual costs are used for the valuation but the planned cost, with appropriate current material prices. This valuation method is recommended, but requires correct planning data (production times, quantities of material, etc.).</td></tr>
<tr><td>Standard costs method</td><td>The production order is firmly connected to the batch-Precalculation. For this reason, the batch-calculation and the pricing procedure (item valuation method - item at standard cost) are mandatory.
See standard cost method
Concept:assembly valuation
WO items</td></tr>
</table>
Note: For standard cost items, postings are always performed at standard costs regardless of which valuation is selected.

In Work order a production type can be stored. In the production type a valuation method can be entered. This valuation method has a higher priority than the method selected here.
See Production types
Additional valuation methods are available in expert mode only.
</td></tr>
<tr><td>Conversion to posting quantity</td><td>Activates conversion to posting quantity
(Active by default, only visible in expert mode)
This calculation allows a very exact valuation for partial postings.

Active:
For partial posting:
Posted material and work order times are converted to the completed quantity.
This serves as reference for assembly valuation.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Valuation Method</th><th>Description</th></tr>
<tr><td></td><td>
At final posting: post-calculation of accrued costs minus the already posted values.

Inactive:
Post-calculation of accrued costs minus the already posted values.
Note:
If the option is disabled and goods are posted at post-calculation price, the actual post-calculation price is used for valuation. This only affects partial postings. Because significant valuation errors can arise due to an incorrect operation, we strongly recommend not to disable this option.

Projection:
Post-calculation offers a function to calculate the expected costs of a given quantity based on the previously reported quantities. Costs for material, operations and quantity with depending surcharges are calculated.

Example:
Operation with costs of 2€/Minute
Planned quantity: 10 pcs
<table>
<tr><th></th><th>without projection</th><th>with projection for 1 piece</th><th>with projection for 10 pieces</th></tr>
<tr><td>1 minute, 0 pieces reported</td><td>2 €</td><td>0 €</td><td>0 €</td></tr>
<tr><td>1 minute, 1 piece reported</td><td>2 €</td><td>2 €</td><td>20 €</td></tr>
<tr><td>5 minutes, 2 pieces reported</td><td>10 €</td><td>5 €</td><td>50 €</td></tr>
</table>
This function is useful for actual costs evaluation methods with partial postings.

Example:
1. Operation planned: 10 minutes, costs 2€/minute
2. Operation planned: 10 minutes, costs 2€/minute
Planned 10 pieces, Partial completion 5 pieces
Planned costs: 1. operation 20 €, 2. operation 20 € = 40 = 4 € per piece
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Valuation Method	Description

	without projection	with projection
1. operation: 10 minutes, 10 pieces reported 2. operation: 10 minutes, 5 pieces reported	20 € + 20 € = 40 € : 5 = 8 €/Piece	10 € + 10 € = 20 € : 5 = 4 €/piece
1. operation: 10 minutes, 10 pieces reported 2. operation: 10 minutes, 10 pieces reported	20 € + 20 € = 40 € - 40 € (of first posting) = 10 € : 5 = 2 €/pieces	20 € + 20 € = 40 € : 10 = 4 €/piece

This example shows the difficulties of partial postings without projection. The first 5 pieces are valued at 6€, the next 5 pieces at 2€. In certain configurations even negative evaluations are possible.

Material evaluation example:
A BoM item has a requirement of 1 per 1 assembly and a value of 3€
Production quantity = 10

	Without projection	With projection
Material issue total 10 pcs	10 * 3 = 30€	10 * 3 = 30€
first partial posting 1 Pc	Posting 30€	Conversion to planned quantity, in this case 1/10 = Factor 0,1 30€ * 0,1 = 3€
second partial posting 1 Pc	Posting 30€ - already posted = 30€ = 0€ !	Conversion to planned quantity, in this case 1/10 = Factor 0,1

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Valuation Method</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td></td><td>30€ * 0,1 = 3€</td></tr>
<tr><td>last posting and order completion</td><td>Posting 30€ - already posted= 30€ = 0€ !</td><td>Not the projection but the accrued costs are used.

30 € - already posted = (3€ + 3€ = 6€) 24 €</td></tr>
</table>

Webinar Product Cost determination from 2017/06, Part "Quantity Projection"
Post-calculation – Concepts

Example: Projection of actual costs
</td></tr>
<tr><td>max. time since last calculation</td><td>Define the max. time from last calculation
This option is only available if you work with Standard costs method.

Using the standard cost method, the total value and the value of the parts of an assembly can be identified, such as materials, manufacturing costs, tool costs, or other surcharge costs. Standard cost means, that these values are not dependent on the volume of the production, only the budget figures are taken into account.

The standard cost method involves an entire workflow:
• Pre-calculation via batch pre-calculation
• Pricing based on the pre-calculation
• Copy of evaluation into the work order, including the calculation scheme. The Work order is properly linked to the pre-calculation
• Postings are performed with the current standard cost rate

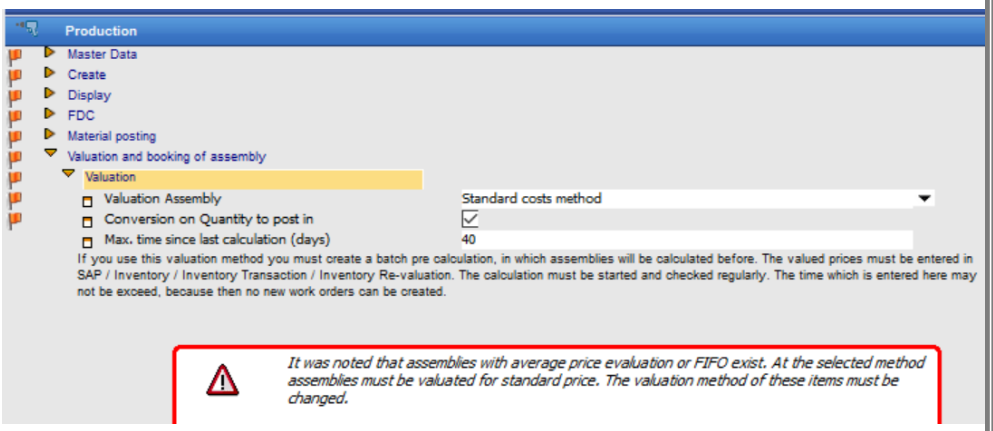
Configuration Wizard > Production > Valuation and booking of the assembly</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Valuation Method	Description

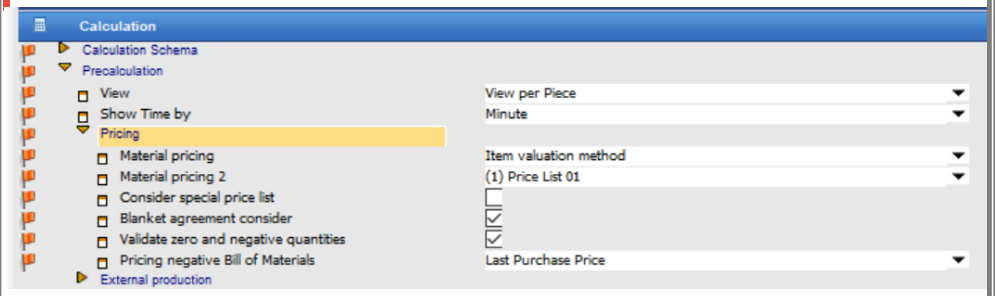
> Valuation > Valuation of the assembly by "standard cost method"

The *Max time for last calculation* field is displayed. This is the update interval for batch calculations. If the entered time is exceeded, no work orders can be created.



A correctly set pre-calculation valuation method is crucial. Set to "Item valuation". Set all items to "standard price".

Configuration Wizard > Calculation > Precalculation > Material pricing to "Item valuation method"



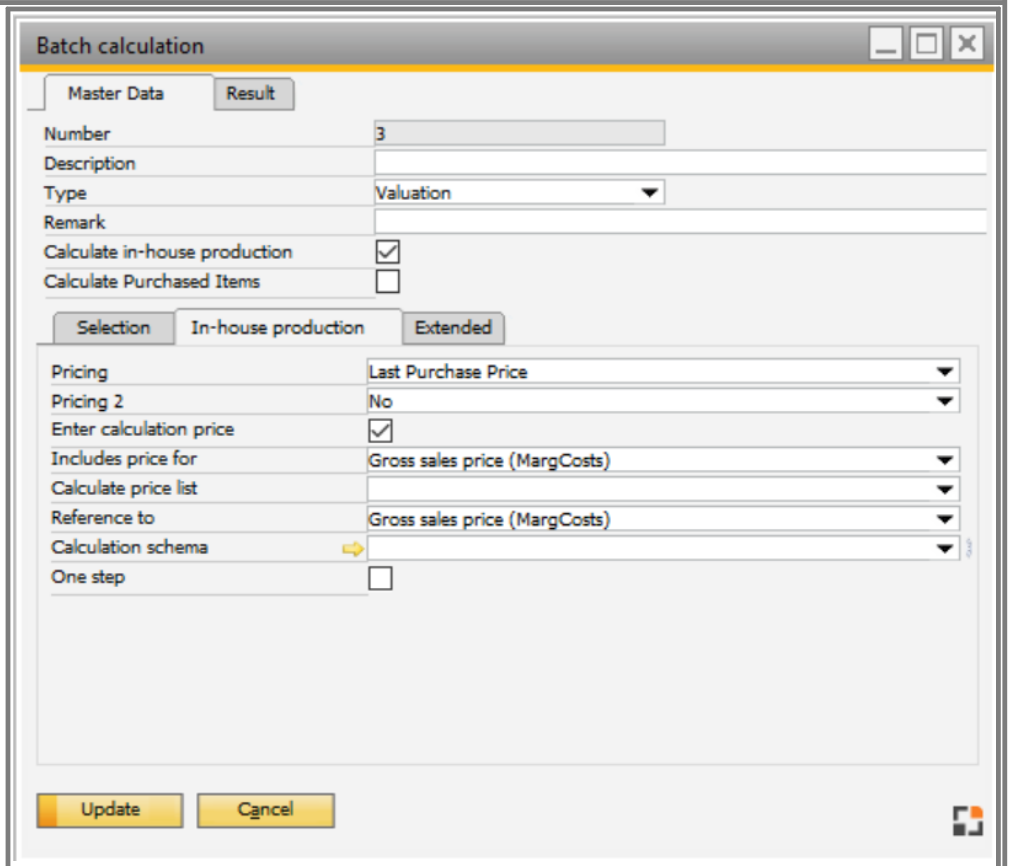
Inventory> Inventory Transactions > Batch calculation

Setup a calculation for calculating standard costs

The price list or price calculation does not need to be filled. Select the desired evaluation method in *Pricing* and *Enter calculation price*, and the type of pricing procedure. One step evaluation can be enabled for standard cost.

© 2026 Boyum IT Solutions A/S

Valuation Method	Description



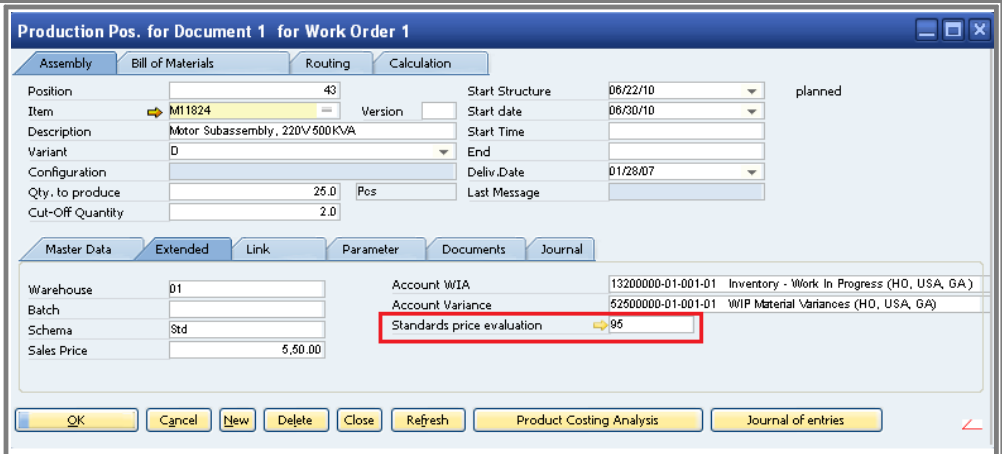
The defined calculation should be performed regularly and the update interval can be set in the Configuration Wizard. After calculating, change to the results tab and perform an inventory revaluation.

Note: If the price per warehouse is set, the batch calculation needs to be performed per warehouse. ***See*** Batch-calculation.

Connecting to a work order

All the work orders that are being created for the items, refer to the calculated standard costs. The connection to the standard costs calculation is available in: **Production assembly > Assembly tab > Extended >Standard price evaluation**.

© 2026 Boyum IT Solutions A/S

Valuation Method	Description
	 Valuation of assembly – Standard cost method Concept: Valuation of assemblies WO positions – Item Batch-calculation – Standard costs Affected database fields: The following fields are filled: BEAS_FTPOS.STANDARDCOST_NR = relates to the last calculation BEAS_FTPOS.SCHEMA_ID = used schema in this calculation BEAS_OITM_CALCPRICE = calculation result BEAS_PK_BATCHKALK_HEADER = calculation definitions
Pricing at valuation	Pricing related to the calculation method for assemblies. Visible only when an evaluation form based on a calculation has been selected. Here you must define which result of this calculation is to be accessed.

Pricing at valuation (Assembly)	Description
Material+Production Marginal Costs	Sum of the pure material and manufacturing costs, without supplements
Material+Production Full Costs	Sum of the pure material and manufacturing costs, without supplements

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Valuation Method</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td>Costs of goods sold Marginal costs</td><td>According to the calculation scheme in line "manufacturing costs", usually material costs + material surcharges + manufacturing costs + manufacturing surcharges</td></tr>
<tr><td>Costs of goods sold Full costs</td><td>According to the calculation scheme in line "manufacturing costs", usually material costs + material surcharges + manufacturing costs + manufacturing surcharges</td></tr>
<tr><td>Costs of sales Marginal Costs</td><td>According to the calculation scheme in line "primary costs" usually line of COGS + surcharges</td></tr>
<tr><td>Costs of sales Full Costs</td><td>According to the calculation scheme in line "primary costs" usually line of COGS + surcharges</td></tr>
<tr><td>Production costs (PLANNED) + Material costs (ACTUAL)</td><td>Sum production plan costs + material actual costs (beas 9.2 PL: 04)</td></tr>
</table>
</td></tr>
<tr><td>Precalculation material pricing</td><td>Only visible if as valuation form based on a calculation was chosen and planned values are taken into account
This setting is a copy of Calculation > Precalculation > Material pricing. Pricing can be selected.

See: Pricing - Types</td></tr>
<tr><td>Post-calculation material pricing</td><td>Determines the valuation form of actual numbers
Only visible if valuation form based on a calculation was selected.

See: Pricing - Types</td></tr>
<tr><td>View</td><td>Press the button to get a list of all items with standard price.</td></tr>
</table>

Note: Valuation by post calculation price

At valuations by post calculation price the actually accumulated costs are used for valuing the assembly. This is generally problematic since it depends on the correct behavior of all users. If, for example, order times are not reported correctly, the assembly is valued incorrectly. Subsequent correction is not possible. It is recommended to use the valuation by standard price or the valuation

© 2026 Boyum IT Solutions A/S

of assembly in advance (via batch Precalculation) and to use the result as a reference price. (valuation price "like manual posting"). Alternatively, the valuation method "by planned production costs" can be used.

Depending on the settings conversion to posting quantity the valuation at post calculation price is done as follows:

First partial entry: post-calculation, broken down to the reported quantity
Second partial entry: post-calculation, broken down to the reported quantity minus the already booked costs of the first entry
Closing entry: post-calculation of accrued costs minus already booked costs of the partial entries.

If there is no final posting, a difference in the WIP account arises! Depending on the valuation, there could be a different valuation form than in other postings at final posting. Accordingly, the valuation of the last posting can lead to other results. In the worst case, the calculated amount is less than 0. Then, a 0-booking is performed.

Example:
First partial entry: post-calculation planned costs 100 €, one piece posted in for 100 €
Second partial entry: post-calculation planned costs 200 € minus preceding 100 € = 100 €, one piece posted in for 100 €
Closing entry with different valuation: Actual costs 180€ less already booked 200 € = -20€

Problem with cancellations
Calculation works as follows: calculated value minus already posted values after a partial delivery. If a partial delivery is canceled, the value "already posted" is not changed. That is why no cancellations may be done using this valuation method.
Canceling an assembly: The amount of previously booked values are stored directly in the work order item - split into material costs, manufacturing costs and additional costs. When the assembly is canceled, this amount in the work order item is not canceled because a recalculation is not possible. As a result, subsequent bookings are incorrectly valued.

Example #1:
First partial entry: post-calculation planned costs 100 €, one piece posted in for 100 €
Cancellation of one piece
Repeated posting: post-calculation planned costs 100 € less preceding 100€ = 0, 1 piece posted in at 0 €

© 2026 Boyum IT Solutions A/S

Example #2:

Planned qty 10
Post-calculation: 1000€
First partial posting 5 pcs: 1000 € : 5 = posting price 200€

Continue production, post-calculation 1200 €
Second partial posting 2 pcs: 1200 € - previously posted 1000 € = 200 € : 2 pcs = posting price 100€

Production finished. Post-calculation 1200 €
Last partial posting 3 pcs: 1200 € - previously posted 1000 € = 0 € : 3 pcs = posting price 0 €

Problem with last posting

The last partial posting is defined with the fact that by posting the parts, the manufacturing position is completed.
If you do not specify with the last posting, that the manufacturing position is completed, at valuation method "planned costs at partial delivery" or "partial delivery at material / manufacturing plan costs," is used even for the last posting. A subsequent correction is not possible.

Subsequent BoM correction

If the BoM changes after a receipt, the received part must be re-valued AND the material movement corrected in the production position (previously received material - calculated at target costs).
Right-click on "Finish" in the production position to do this.

see Projection of actual costs, Post-calculation

Type	Type	Calc.Type	Material	Routing	Surcharge
Post calculation (Planned Material costs at Part delivery)	N	Real	Part: Plan Close: Real	Part: Real Close: Real	Real
Post calculation	T	Real	Real	Real	Real

© 2026 Boyum IT Solutions A/S

Type	Type	Calc.Type	Material	Routing	Surcharge
(Actual material costs at Partial delivery)					
Production planned costs	V	Plan	Plan	Plan	Plan
Post calculation (Partial delivery to Material / Production planned costs)	P	Part: Plan Close: Real	Part: Plan Close: Real	Part: Plan Close: Real	Part: Plan Close: Real
L+M Cost (Plan) + Material Cost (Actual)	L	Part: Real	Real	Plan	Plan
Standard cost method	Z	-	-	-	-
Booking Price	S	-	-	-	-

- Calculation type

Plan:
The system creates a post calculation for the quantity of the current receipt for Plan costs (not Real costs).

Real:
The system creates a post calculation for the current receipt quantity and all receipt quantities in the past. It calculates the Plan- and Real costs for the total of all receipts.

Note on Lot size costs:
The lot size cost is not related to the quantity. It is always related to the actual work order position.

Due to the risks the following valuation methods are only available in Expert mode

© 2026 Boyum IT Solutions A/S

Field	Which costs are used?
Post calculation price (planned material costs for partial delivery)	**Partial posting** accumulated production cost as per post-calculation + planned material costs as per Precalculation + surcharges as per post-calculation minus the already posted values. **Final posting**: accumulated material and production costs and surcharges as per post-calculation minus the already posted values. Note: In this valuation form pre- and post-calculation is used. If at "pricing at valuation" cost at goods sold or costs of sales are indicated, the post-calculation value is used here. This is calculated from the post-calculation value minus material costs, as per Precalculation L-M costs according to post-calculation. This scenario can, therefore, lead to erroneous results. For this reason, "material and production costs" should be selected for this configuration. With this valuation method, at partial posting the option Conversion to posting quantity is considered. Note: The use of this valuation method can lead to valuation problems in certain configurations.
Post calculation (actual material costs for partial delivery	**Partial posting and final posting** Cost for material and production and surcharges according to post-calculation. With this valuation method, the option Conversion to posting quantity is considered at partial posting. Note: The use of this valuation method can lead to valuation problems in several configurations.
Post calculation (partial delivery at material / planned production costs)	**Partial posting** Costs for material and production costs and surcharges according to Precalculation, ***See*** Valuation Planned production costs **Final posting** Cost for material and production and surcharges according to post-calculation,

© 2026 Boyum IT Solutions A/S

Field	Which costs are used?
	minus the already posted values. With this valuation method, at partial posting the option Conversion to posting quantity is considered, which may lead to problems when another quantity than the planned quantity is posted. Note: The use of this valuation method can lead to valuation problems in several configurations.
L + M costs (Planned) + Material costs (Actual)	**Partial posting and final posting** Material cost: - Partial costs to actual costs (possibly with Conversion to quantity to post in) minus the already posted material costs - Final posting to actual costs minus the already posted material costs Production costs according - always to Precalculation minus already posted production costs. Costs of goods sold (Surcharges): - always according planned costs. Example Usage of these valuation method

see Projection of actual costs, Post-calculation

back to Valuation and posting assembly

3.1.3.6.7.2 Account determination

Beas uses the same account determination as SAP Business One. Depending on the setting, accounts are determined by warehouse, item group or item warehouse.

PATH: Administration > System Initialization > Configuration wizard > Production > Valuation and Posting of Assembly.

⊞Extended Account Determination

© 2026 Boyum IT Solutions A/S

From *beas9.0-000-002-000* extended account determination is supported. The following parameters are considered: item, warehouse and valuation date.
For more information for account setting ***see*** SAP Business One-documentation.

Because Beas offers advanced functionality, the further settings are available:

Name	Description
Define WIP account	Press Start to run the automated determination of WIP accounts The **Start** button opens the Define WIP Account window.
Use for component transactions	Only visible if continuous stock keeping is activated. Determines the "WIP account" to which the material positions should be posted. **WIP accounts for components** For material posting, the value is posted to the WIP account of the material. **WIP accounts for superordinate items** For material posting, the value is posted to the WIP account of the assembly. Corresponds to SAP Business One - **Document setting - Per document** ***See*** Document settings.
Calculation schema	Determines the calculation schema to be used for valuation of the assembly or for account definition. This may only be specified here if the calculation schema stored in the item should not be used. Note: If you define a schema in this option, the system ignores the schema setting in the Item Master data. This option is not available if standard price valuation has been activated. ***See*** standard cost method . ***See*** Production - Schema Calculation Schema

© 2026 Boyum IT Solutions A/S

	Item master - Calculation schema
Account the costs on WIP depending on the schema	If activated, all costs specified in the calculation schema and where an account is stored are booked from the account indicated in the schema to the WIP account **On assembly receipt** The values are posted to the WIP account at the time of assembly receipt. **On closing production position** The values are only transferred when the production position is closed. This option makes it possible to book not just the material costs but also production costs (machine costs, wage costs, etc.) from separate accounts. If you reopen a work order position and close again, Beas does not transfer the values again. ***See*** Calculation Schema
Balance WIP Account	All costs are booked to the WIP accounts In turn, the assembly receipt debits the WIP account. If this option is activated, the remaining amount is transferred from the WIP account (or accounts) to the difference account of the assembly and the WIP account (or accounts) thereby debited without any remainder. **Setup options:** No — WIP accounts are not automatically balanced. Upon closing — WIP accounts are balanced, as soon production has been completed. In general, this is the best option. at posting-in assembly — WIP accounts are balanced after every posting. We do not recommend this option, because

© 2026 Boyum IT Solutions A/S

	a) many journal entries are created b) incorrect values may arise when you work with partial production When to use this option: - for very long cycle times - if partial production does not overlap, meaning the first assembly will be completed before starting the next one.

Note:

In the production types (***see*** Production / Master Data) you can specify that the WIP accounts should not be balanced if the type is stored in the work order.

If a posting should nevertheless be performed, this can be carried out by Beas script:

```
object=ue_api_wo=wipclear=<workorder-number
belnr_id>=<workorder-position belpos_id>=manuell
```

Account setting WIP variance account	Enter BeasScript to modify account determination. Variables: **Read variables:** "ll_belnr_id" "ll_belpos_id" "ls_itemcode" "ls_whscode" **Write variables:** "ls_account_from" "ls_account_to"
Cost center determine by	Setting to determine cost center. **Available settings:**

No	No cost center determination
Assembly	Cost center as per superordinate assembly. ***See*** Item master- General- Cost center

© 2026 Boyum IT Solutions A/S

	Note: Use extensions in work order management to manipulate or extend the cost center. **IMPORTANT:** At variance journal entries there is no cost center assignment. However, the user can add a cost center applying their own business rules to detect the event that allows to assign the cost center, even from dimensions 1 to 5. ***See*** **BeasScript documentation > User events > wip - Work in Process > workordermanagement > WIPClearVariance.** *Variable: ftpos_profitcenter*

see

Concept work in progress

Account setting

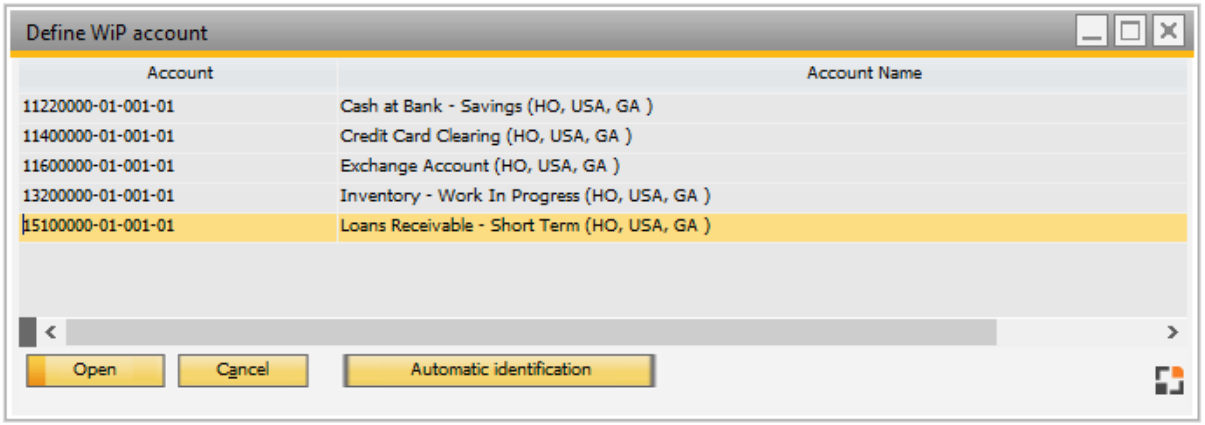
Examples for WIP settings

Webinar: Financial accounting in beas Manufacturing

back to Valuation and posting assembly

In this window you can define Work in Progress (WIP) accounts.

PATH: Administration > System Initialization > Configuration wizard > Production > Valuation and Posting of Assembly > Account Setting > Define WIP Account.



Window fert_wip_accounts.psr

© 2026 Boyum IT Solutions A/S

For this the system checks
- all WIP accounts defined in the work order
- all WIP accounts defined in the cost elements
if not extended accounting, the system checks
- all WIP accounts defined in item groups
- all WIP accounts defined in Warehouses
if extended accounting is activated, the system checks
- all WIP accounts defined in the extended accounting system

Functions

Field	Description
Automatic identification	Click this button to identify WIP accounts automatically.
Add	Select **Add** in the right-click menu, then right-click the empty field to select an account from the drop-down list.
Remove	Delete selected WIP account.
Cancel	Close the window without saving changes.
Change Log	Opens the change log for the selected entry.

Note: If any account setting was incorrect in the past, the system inserts the wrong account in this list. You must delete it manually.

see also

Concept work in progress

Account setting

Examples for WIP settings

Webinar: Financial accounting in Beas Manufacturing

back to Valuation and posting assembly

© 2026 Boyum IT Solutions A/S

3.1.3.6.7.3 Booking

PATH: Administration > System Initialization > Configuration wizard > Production > Valuation and Posting of Assembly.

These settings affect material postings in the posting/reservation window.

Name	Description
Post finished parts when	Defines the time of the receipt of the item. This setting affects only the order time receipt. Depends on the setting Material posting - Automatic material posting. **Available settings:** Like Material (Last Operation i.e. Backflushing) Entry of the assembly is made with the material, depending on the settings. Material posting - Automatic material posting - First position or last routing position: It is posted in the **last** reportable position. - for all other settings: The assembly is not posted. Note: The assembly will always post in with the last operation. Like Material (only backflushing assemblies) Automatic entry is made only when: - setting Material posting - Automatic material posting is set at the "first" or "last" position. The Assembly will post in always with last operation. - the option "Output method" is set to "backflushing" in the item master of the assembly. Note: The assembly will always post in with last operation. Not Automatically: If this option is active, there is no automatic entry for the finished item. Always after the last operation

© 2026 Boyum IT Solutions A/S

	Finished parts are always posted in after the last operation, independent of other settings. Note: No automatic entry posting is made if the Material posting - Automatic material posting is set to "Not automatically" or to "backflush post production order".
Post finished parts to warehouse	Defines the target warehouse of the item to be produced Normally, the assembly is stored in primary warehouse defined in item master data. If a store is selected in this setting, each assembly on main level is automatically entered into this warehouse. Note: This setting is only for main items, not for sub-assemblies. Selection is also possible via **Warehouse > Extended > Master data tab - "Production inflow"**. You can define additional rules in Warehouse rules. Warehouse rules have higher priority than this setting. ***See*** Edit warehouse master data. Planning scenarios - Detail - Production inflow.
Allow Booking without prices	Defines whether an entry with price 0 is allowed **Enabled:** If the option is enabled, it is possible to post in the assembly with 0 price. **Disabled:** If the price valuation returns 0 and this option is disabled, the following error message appears: *(faeinb9345311) Assembly has no price. Booking not possible*
Behavior if finished part has no price	Determines further behavior if pricing is not possible. Note: This function is only available in - Desktop solution / Terminal - Time receipt

© 2026 Boyum IT Solutions A/S

	- Desktop solution / Terminal - Backflush - Desktop solution / Terminal - Goods receipt function Since the option is "Pricing according to cost analysis", the assembly can be received only when the Bill of materials is issued and valued. If the price is specified here as 0, the transaction can no longer be rolled back. For this reason, it must be updated. The behavior can be set here. **Force price entry**: The price must be entered manually. Cancellation is not possible. **Info and book with 0**: Information is given and the assembly is entered with the price 0. Note: In the backflushing process (for example time receipt) the system must create the time receipt entry, the Issue document and then the calculation. The price is only available after these processes. But if the price is zero, the system cannot make a rollback of all preview processes (Rollback system from SAP Business one is case nut running). This is the reason why the system cannot check this in WEB Services / WEB Application. If "Force price entry" is activated, the user MUST insert a price. A cancellation is not possible.
Item check before booking	Checks the item to be booked before the backflushing booking process is started When backflushing, the material is issued, the price is valued and the assembly is received in one process. If the receipt is not possible, the partial process cannot be undone. A number of checks is performed before the issue resulting in the low likelihood of such event. If this option is active, the item to be received is temporarily changed to ensure access rights and data integrity as much as possible. This check may delay the overall process in certain circumstances.

© 2026 Boyum IT Solutions A/S

back to Valuation and posting assembly

3.1.3.6.7.4 Work order position closing

PATH: Administration > System Initialization > Configuration wizard > Production > Valuation and Posting of Assembly.

Setup rules which apply for closing work orders.

Parameters

Name	Description
Behavior at closing	Determines the behavior on closing if the assembly contains a sub-assembly. If an assembly is closed manually (***see*** Edit work order position - Close) or closed automatically via time receipt, it will be checked for open sub-assemblies. **Setup the behavior in this case:** Only if sub-assembly closed (1) — Closing the assembly is only possible if all sub-assemblies are closed, as well. Message, if sub-assembly is open (2) — A message is issued, telling the sub-assembly is open. You can still close the assembly, but the sub-assembly will remain open. Default option. Message: `fertabgkert943` *'The sub-assemblies ... for the work order ... are not closed. Close the position for the assembly ... anyway?* Close sub-assembly as well (3) — Message if sub-assemblies are open. After confirmation, sub-assemblies are closed. Message: `fertabgkert944` *'Sub-assemblies ...for work order*

© 2026 Boyum IT Solutions A/S

	Only if sub-assembly closed (1)	Closing the assembly is only possible if all sub-assemblies are closed, as well.
		document ... are not closed. Close the sub-assemblies ? Note: It is checked in advance, whether or not sub-assemblies can be closed. If not, the following message is issued: `ftstmp3244332` *'There are open time receipts for sub-assembly .... Sub-assemblies cannot be closed. Close the assembly anyway?* Answering with Yes, the current assembly will be closed, but not the sub-assembly.
	Variable: fert_abgkzsub, 1,2,3 see brackes in table. Default= 2	
Close assembly automatically	Determines whether the assembly is closed automatically	
	The system can close the work order position automatically. **No**: The system does not close sub-assemblies. **By Query**: The system asks if you want to close the sub-assembly. For more information, ***see*** setting "Yes" below. **Yes**: The behavior depends on the switch Material posting automatically at: **Last operation:** Assembly is closed when the last reportable operation is closed. If the last operation is an external routing position with provision, the system does not close the assembly automatically.	

© 2026 Boyum IT Solutions A/S

	(Supported by all time receipt windows, Data Integration HUB / Beas service layer: Time receipt) **Work order backflushing:** Assembly is closed when the work order is closed by "Work order backflushing" or when the full planned quantity is reached. **Collective Receipt:** Activates close flag atomically if full quantity is defined *beas 2020.02* **Post-in assembly manually:** At posting a check box "Close" is displayed which is controlled by this parameter. **Data Integration Hub:** Material receipt import: no effect. **Beas Service Layer:** Receipt function: no effect. You can define this with property CloseID. Note: When dealing with an overhead order or project order and if a non-storage related item was stored as assembly, the work order will not be closed automatically. ***See*** Production types. Note: The option has no effect on upper option "Behavior on closing". *fert_abg N=No, J=Yes, A=Query, Default =N*
Work order close	Define if work order is closed automatically If active (default) then the work order is closed when all assemblies have been closed. If you deactivate this option, you need to close the work order manually. *fthaupt_abg J/N* Support all time receipt functions.. **Last operation:** Assembly is closed when all work order positions are closed.

© 2026 Boyum IT Solutions A/S

	Work order backflushing: Assembly is closed when all work order positions are closed **Post-in assembly manually:** At posting a check box "Close" is displayed, which is controlled by this parameter *(beas 9.1 PL: 08)* **Collective Receipt:** no effect **Data Integration Hub:** no effect **Beas Service Layer:** Receipt function: no effect.
Only if order is closed	Determines whether the work order position may be closed if open purchase orders exist **enabled** (default): The work order position may only be closed if there is no open purchase order created from an external operation. **disabled:** Work order position may be closed, as well, if there are still open purchase orders from external operation. **Important:** For correct cost determination it is necessary to register deliveries of open purchase orders. If valuation of the assembly or bookings depend on it, and purchase orders are not closed, differences may arise on accounts. There may be values on the WIP account, which are no more moved to the difference account. *ftpos_orderclose J/N*

back to Valuation and posting assembly

3.1.3.6.7.5 Serial Number

PATH: Administration > System Initialization > Configuration wizard > Production > Valuation and Posting of Assembly.

Parameters

Name	Description
Form to create (xxx = serial no.)	Specifies the template for the structure of the serial numbers. For more information ***see*** Batch Generation.

© 2026 Boyum IT Solutions A/S

Counter reading	Current Counter Status. For alphanumeric counting systems, this counter retains the numeric counter status and it is only converted when the numbers are generated.
Serial Number reservations	Pre-define serial numbers Yes Serial numbers are generated and therefore also reserved when the work orders are created. If the number in the work order is subsequently increased or decreased, the reservations are automatically adjusted. On receipt, a selection from the list of reserved serial numbers must be made. **Important**: serial number reservation works only with automatic determination of serial numbers. If in the item the determination is set to "manual" – there is no reservation of serial numbers. No Serial number reservation is disabled. Beas does not create any reservation when WO is created. Manually Beas does not create the reservation when the WO is created, but adds the possibility to create new Serial reservation in the material issue window. Additional information If serial numbers are pre-defined, for batch or serial number items the material to be issued can be pre-assigned to the serial number to be posted-in. **Important**: it is a reservation of future serial numbers. It is NO receipt reservation – it is not connected to material reservation. This function does not support negative amounts of material. In batch or serial number tracing, only successor batches are displayed, which are directly linked.

© 2026 Boyum IT Solutions A/S

	To make possible the assignment of material-serial number to batches, at **Material posting > backflushing** the option "**also post batches/serial numbers**" needs to be set to "**manually**" . ***See*** Configuration wizard – backflushing *Fields: oitm.u_batchroh* *Variable: fertserres (J/N/M), Standard: nicht aktiv (N)* For more information ***see*:** Serial Number Reservation WO structure – serial number reservation Configuration wizard – Material – backflushing – serial numbers Serial number tracing *Affected data fields: oitm.u_batchroh* *Variable: fertserres (J/N), Default: inactive (N)*
Display serial numbers selection screen	Defines if the Serial numbers selection window should be opened when "Serial Number Reservations" was activated. - **Yes**: Default setting. When this parameter value is selected, the Serial numbers selection window is displayed when a receipt is generated during the Time receipt process. - **No**: When selected, the Serial numbers selection window is not displayed in the above scenario.

back to Valuation and posting assembly

3.1.3.6.7.6 Batch Management

PATH: Administration > System Initialization > Configuration wizard > Production > Valuation and Posting of Assembly.

Parameters

Name	Description
Basic settings for batch status of material receipt	Determines the default batch status on goods issue (goods receipt, goods issue or issue via Production or cancellation of sales documents) This switch corresponds to the setting in SAP.

© 2026 Boyum IT Solutions A/S

Batch status without QC order	Batch status on production receipt if no quality control is stored in the item for this transaction. For the "Default" setting, the status "Basic setting of batch status" is used.
Batch status with QC order	Batch status on production receipt if quality control is stored in the item for this transaction. For the "Default" setting, the status "Basic setting of batch status" is used. Note: If "Default" is not set, the definition cannot be influenced by script.
Number Assignment xxx = current no	For settings, ***see*** Materials Management - Batches - Batch Generation
Unique batch	If this option is activated, the batch number will be checked for uniqueness. The batch is checked for previous use. If the batch is already existing, the batch generation function will be used. The check will be repeated 5 times. If then, no unique batch was generated, an error message will be issued and the work order will be marked as faulty. Note: Automatic batch determination must be selected and the batch determination returns an continuous batch number.Otherwise a next automatic batch number cannot be generated. **Affected posting processes:** Time receipt via last operation sequence Backflushing (post-in) Goods receipt of a production position **Not affected:** Post-in of negative Bill of materials positions Collective receipt *Variable: fert_charge_eind (J/N), Vorgabe = N* If this option is activated, the batch number is checked for uniqueness.

© 2026 Boyum IT Solutions A/S

Batch Counter	Reference to a counter 1, 2 or 3 that is stored in Materials Management.

back to Valuation and posting assembly

3.1.3.6.8 Reservation

PATH: Administration > System Initialization > Configuration wizard > Production.

Beas allows automatic reservation of normal items, batch and serial number managed items.
You can reserve material for Work orders and Sales orders (Pick and pack process).
The reserved quantities are fixed for each Work order or Sales order and are not available for other documents.

The reservation is later used as a pre-assignment for material issue from stock or for creating Sales delivery documents.

The reservation can be made with automatic pre-allocation by several techniques, including FIFO, Manufacturing date or serial number custom attributes.
Eventually, a WIP stock transfer can be performed in SAP Business One via the Beas Allocation function for accurate tracking of stock quantities and values.

See Concept Reservation

Note:

After changing reservation settings, Beas needs to be restarted!

A subsequent change of reservation settings can lead to problems.

Beas does not allow reservations with negative stock. The item must have stock in order to move it.

Parameters

Name	Description
Receipt reservation only at	Select under which conditions a "receipt reservation" is created followed by a "warehouse reservation" Selection:

© 2026 Boyum IT Solutions A/S

always: if there is a reference to a customer order, independent of the scheduling ID of the assembly, always a receipt reservation is created.

only for order related items: receipt reservation is only created, if the assembly got the scheduling ID "order related"

disabled: default setting. Receipt reservation is disabled.

Note: The MRP and Sales order to work order do not work correct with this setting, because the system does not have enough information for the correct calculation.

- Requirement calculation with activated receipt reservation (for order related items):

  Open quantity from customer order
  - open receipt reservations according to work order
  - warehouse reservation for customer order
  = remaining quantity

  Summary of multiple customer orders into one work order is possible.

- Requirement calculation with de-activated receipt reservation (default setting):

  Total quantity from customer order
  - Withdrawal from warehouse (column rdr1.u_vonlag)
  - Total quantity from all assigned open work orders
  - Posted quantity from all assigned completed work orders
  = Remaining quantity

  Only a 1:n - relation is possible. No summation of multiple customer orders into one work order. If the order reference is changed subsequently or the material is consumed for another customer order, which was not linked to the work order, errors can occur. Usually, this option is the best choice. The manufacturing assembly is linked to the customer order in a 1:n-relation. The reference screen for multiple references (receipt reservation) is disabled.

Notes

© 2026 Boyum IT Solutions A/S

	If the receipt reservation is disabled, existing reservation entries are not deleted. At a subsequent activation, missing reservations are not created. If the option is activated subsequently, missing links are not entered. Further information ***see*** Disable reservation – subsequent activation/de-activation Note: If you disable this setting, the MRP cannot calculate a correct balance. ***See*** Disable reservation – subsequent activation/de-activation Work order – link Order recommendation – produce
Sub-assemblies reserve	Define Reservation concept for sub-assemblies If posting in a sub-assembly, create a warehouse reservation for the superordinate assembly? **always:** For all postings a warehouse reservation is created for the upper assembly **no:** no warehouse reservations are created **not on QC-/blocked warehouse:** posting in to a QC-warehouse or to a blocked or an external warehouse, no reservation is created Notes on breakdown Order-related assemblies are not covered by the inventory or unassigned work orders. If there is no associated production order, the assembly is broken down.
Disable reservation	Activating the check mark deactivates the reservation system completely. Effects of a disabled reservation system: **Order recommendation report:** no correct balance calculation for order related items, because this is based on reservations **Customer order:** no reservations

© 2026 Boyum IT Solutions A/S

Work order (structure view): no reservations, no allocations
Customer order to work order: it is not possible to link several customer orders to one work order
Pick&pack: no pick&pack and delivery possible with Beas

Subsequent activation / deactivation

Notes on subsequent activation / deactivation of receipt reservations
If the receipt reservation is activated subsequently, only existing reservations are considered. Usually there are no reservations in such a case.
IMPACT: The MRP will display a material requirement which is too high. For this reason, after activation, reservations for existing work orders need to be deposited manually. For partially finished work orders the stock needs to be assigned to the customer orders.

Using the following script command the reservation can be entered automatically into the work order.
object=ue_reservation=addreservation_for_workorder
This function creates the receipt reservation between the sales order and work order. However, the created reservations must be edited manually if there are partial postings for work orders. These need to be reduced from the reserved amount and the item must be reserved manually for the customer order.

Important: Deactivating reservations, it is queried, whether to delete existing reservations. Selecting "YES", all entries are deleted. There is no way to recover deleted entries.

3.1.3.6.9 Internal and external maintenance

Administrate internal and external maintenance

PATH: Administration > System Initialization > Configuration wizard > Production.

For the following areas you can setup UDF's.

© 2026 Boyum IT Solutions A/S

Master data

Maintenance plan

3.1.3.6.10 External production

PATH: Administration > System Initialization > Configuration wizard > Production.

Purchase order and provision

External operation goods receipt

3.1.3.6.10.1 Purchase order and provision

PATH: Administration > System Initialization > Configuration wizard > Production > External production.

Parameters

Name	Description
Default item for purchase order	Specify for external operations which service items are to be used for purchase of external service If no item is specified, an item can be predefined here. This item must be a service item without inventory management. It should generally not have any price or pricing - ***See*** entry: **Pricing for order** If working with special prices, a separate item with its own pricing must be created for each service. Prices which are stored in the operation are ignored.
Pricing for purchase order	Pricing external operation **There are two variants:** 1. Price is stored in operation and used for the service. 2. Pricing using the service item. Use this variant, if "Price list" (or in operation: consider price list) was selected. Following priority applies: - Blanket orders - Special price list (if Consider special price list was activated in the Configuration wizard) - Pricing as per **Configuration wizard > set up here** - Price according to operation

© 2026 Boyum IT Solutions A/S

	Special case Precalculation If special price lists are considered, scale prices (max. 4) are copied to the calculation. Foreign currencies are converted to system currency. Note: Gross price lists are not supported. Purchase units are not supported, warehouse unit needs to be the same as the purchase unit. Conversion price units Prices are stored in warehouse units of the service item. The purchase order is created respectively with the unit of the service item. In operation under "conversion" you can define the conversion factor from assembly unit to warehouse unit. *(Variable ext_preisfindung)*
Choose supplier	Which suppliers can be selected for purchasing external operations external in an order recommendation list. **All**: all suppliers **Catalog**: only suppliers with entries in business partner catalog numbers, related to service item **Catalog assembly:** only suppliers with entries in business partner catalog numbers, related to the assembly to be produced. No effect on pricing **Price list**: (only suppliers with special price lists) This setting affects: - Purchase and Provision - Edit Routing – external operation
Consider special price list	Consider **supplier's** special price lists. Enabled by default. ***See*** Pricing for purchase order Note: In Precalculation scale prices are not supported. *(Variable fagspecialprice)*

© 2026 Boyum IT Solutions A/S

Warehouse = production warehouse	Determines the target warehouse for a purchase order If enabled (=default) for **External operation > purchase** always the warehouse from work order will be used for the purchase order, in case that no provision material was stored. If option was disabled, the warehouse assigned to the supplier will be used. Disable the option if you want to summarize purchase orders with and without provision material. *Variable: fagwhscode*
Consider login rules	Determines whether login rules are taken into account If enabled, (=default) all login rules are considered. If disabled, rules are not considered. Affected rules: - preceding operation needs to be completed - preceding operation with reported quantity - preceding operation needs to be OK - report at least preceding quantity - report at most preceding quantity - max. planned quantity may be reported ***See*** Configuration wizard - FDC - Login- and Logoff rules *Variable fagcheckrules*
Number range for "provision of material"	Select between primary or external: Normal purchase orders are created, currently in „primary"-range of numbers. As for purchase you can select a different range of numbers. To use this feature, an additional number range must be set up for purchase orders in SAP. This number range can then be selected here.
Open provision parts window?	Determine whether to open the provision parts window automatically after creating the purchase order **Yes:** after purchase, the screen for provision parts is opened automatically **No**: provision parts screen needs to be opened manually **No provision**: no provision at all. Required goods need to be posted to the external warehouse manually. ***Example***: transfer of goods not related to an order. The provision process is immediately marked as finished, the next step - goods receipt - can follow.
Provision address	Determines, whether to use in provision document (SAP transfer document) the address and name of supplier or the address and name

© 2026 Boyum IT Solutions A/S

	of the warehouse *(beas 9.1 PL: 08, ext_adr=S)*
UDF1 - UDF4	Free Fields 1-4 without Data Source. It is only an empty string field, which you can fill with own data with script. Note: It is recommended to use template fields.

see

External operation

Provision

Issue / Reservation window

3.1.3.6.10.2 External operation goods receipt

PATH: Administration > System Initialization > Configuration wizard > Production > External production.

Parameters

Name	Description
Stock undercut	Defines behavior if the inventory quantity is insufficient. The quantity stored on the external warehouse of the supplier will be checked here. Settings: **Allow:** you can create purchase orders in case there are not enough provision parts **Block:** PO-Goods receipt is blocked if there are not enough goods At the setting "Block", no purchase - goods receipt is possible if the the stored goods are insufficient. Note: Not assigned material is backflushed at the same time if it is the last operation. *(beas 9.1 PL: 08 ext_retrabchk, Default "L=Lock")* **IMPORTANT:** Beas checks the current stock and also existing reservations for other work orders. If something is reserved for a different work order, the system generates an error message. WebApp Ext. GRPO is supported.
Provision Issue	Defines if the provision parts should be issued automatically. **Open issue screen manually:** manual issue via menu item: "**issue provision parts**"

© 2026 Boyum IT Solutions A/S

	Open issue screen immediately: the issue window is opened immediately. If several documents are opened at once, the following order applies: goods receipt – issue – goods receipt – issue. If the process is canceled, an open process will be available under menu item: "**issue provision parts**" **Issue automatically:** goods are backflushed immediately after goods receipt following the rules defined in **Configuration wizard > Material posting > backflushing**. Use this option if working without batches, serial numbers, bin locations and reservation. If the process is canceled, it is available as open process under menu item "**Issue provision parts"** Note: External operation - goods receipt and Material issue are separate processes, executed independently of each other, even if they are executed automatically one followed by the other . If the Issue process is canceled, the goods receipt cannot be deleted automatically or undone. ***See*** Goods receipt external operation Production – Material issue*(ext_issuewindow, default=N=manually)*
Max. purchase order quantity?	Defines which quantity can be posted-in in External production – Goods receipt. **Active:** (Standard): No more than the purchase order quantity can be received. **Inactive:** Any quantity can be posted in. Note: Once the default quantity has been exceeded, the purchase order will be closed automatically. Another partial receipt is then not possible. *(ext_checkmaxorderqty, default=J =Yes)*

3.1.3.6.11 Project administration

Definitions for project administration.

PATH: Administration > System Initialization > Configuration wizard > Production.

Project

© 2026 Boyum IT Solutions A/S

Tasks

3.1.3.6.11.1 Project

PATH: Administration > System Initialization > Configuration wizard > Production > Project Administration.

Project

Name	Description
Status list	List of status settings on project level
Project cost types	Define project cost types, available in a project
Project template	Define project templates

Definable fields, visible in **Project > Extended** or in Work order head – "Project" tab

UDF names are saved in variables *prj_udfX (X=1..4)*

Name	Description	Database field
Info 1	Freely available field	beas_fthaupt.prj_info1
Info 2	Freely available field	beas_fthaupt.prj_info2
Name UDF 1	Freely available field	beas_fthaupt.prj_udf1
Name UDF 2	Freely available field	beas_fthaupt.prj_udf2
Name UDF 3	Freely available field	beas_fthaupt.prj_udf3
Name UDF 4	Freely available field	beas_fthaupt.prj_udf4

3.1.3.6.11.2 Tasks

PATH: Administration > System Initialization > Configuration wizard > Production > Project Administration.

Tasks

Name	Description
Status list	List of status settings on task level.
Mile stone operation type	If a task of type "milestone" is transferred to the work order, this operation type is used by default. Only operations of type "milestone" can be selected. Variable: *prjmilagtyp*

© 2026 Boyum IT Solutions A/S

Tasks – free available fields

Define fields, visible in **Project > Extended** or in Work order head – "Project" tab

UDF names are saved in variables *prjtask_udfX (X=1..4)*

Name	Description	Database field
Name UDF 1	Freely available field	beas_prj_line.udf1
Name UDF 2	Freely available field	beas_prj_line.udf2
Name UDF 3	Freely available field	beas_prj_line.udf3
Name UDF 4	Freely available field	beas_prj_line.udf4

3.1.3.6.12 Activate Variants Generator

PATH: Administration > System Initialization > Configuration wizard > Production.

Parameters

Name	Description
Activate Variants Generator	Variant production and production configuration function allow flexible production control. This can be activated here. ***See*** Variant Generator

3.1.3.6.13 Product configurator

PATH: Administration > System Initialization > Configuration wizard > Production.

In this part of the Configuration wizard, you can edit settings for the Product configurator.

Item Creation

Desktop Product Configurator

WEB Product Configurator

External configurator

See:

Item – configurations

Product configurator

Create new variant

© 2026 Boyum IT Solutions A/S

3.1.3.6.13.1 Item Creation

These are the configuration settings for item creation inside the Product Configurator.

PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator.

Parameters

Name	Description
Item creation	If active, new items can be created from a configuration.
Create items with the same configuration	Item creation: Check whether items with the same configuration are to be created At new creation, the system checks whether to create a new item for the sub-assembly. **Always for order-related items** (Default) If there is an item with the same configuration, the new item will still be created if its scheduling ID was set to "order-related" or "phantom assembly" **Automatically** Independent of the scheduling ID, a new item is not created if an existing configuration was found in the system. Instead, this item is used. Entries in the configuration tab are checked: If there was no entry stored, nothing is checked, and no item is created. If parameters are stored, they will be checked.
Recognize double entries	Setup that happens if a second entry with the same configuration is found: If you save a configuration (Button Update in Product Configurator window), Beas can check if this configuration exists. **Available options:** Note: Only a note is issued.

© 2026 Boyum IT Solutions A/S

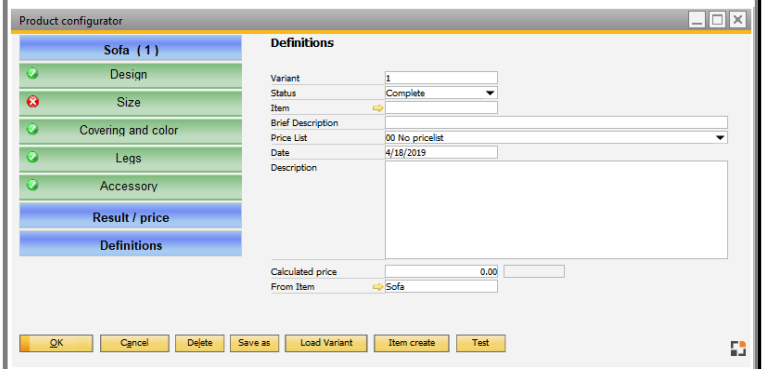
	Question: Question whether the existing configuration shall be loaded. **Automatically**: The existing configuration is loaded automatically. **No:** No recognition. A new configuration is always created. Note: if a configuration is firmly assigned to a project, the system does not check whether the configuration exists already. *config_double: 0=Note;1=Question;2=Automatic (default);3=No*
Apply inactive work sequence	Item Generation: If active, the system inserts a non-active Routing position. ***See*** Routing Position *(beas 9.3 PL 2)*

3.1.3.6.13.2 Desktop Product Configurator

The Desktop Product Configurator UDF settings can be performed in this area.

PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator.

Parameters

Name	Description
UDF1...4	Define up to 4 UDF Fields These UDF fields are visible in Configurator – Page "Definitions" ***Example:*** UDF1 = Color  *Window prd_links2.psr*

3.1.3.6.13.3 WEB Product Configurator

Here you can find filtering and document related settings for the Web Product Configurator.

List of Products

Documents

PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator

Here you can perform display and filtering settings for Web Configurator apps.

Note: The Web Product Configurator must be reloaded after you modify a parameter to apply the changes.

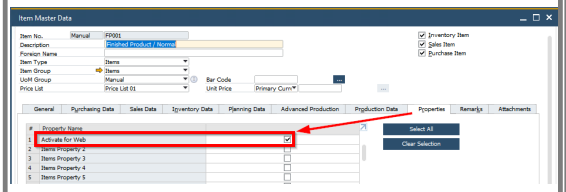
PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator > WEB Product Configurator

Parameters

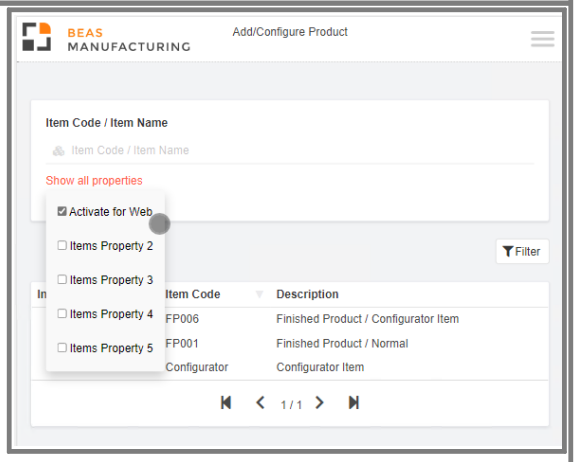
Name	Description
List of Products	
Display non-configurable items also	Define if the Web Configurator should also display items without a configuration. If this parameter is set to "Yes", all items are available for the Sales Order. Default value = No.
Customer can select	Determine which items can be selected for the logged in customer with the following parameters:

Parameter	Description
All	All items can be selected.
Catalog	Only items defined for the customer in the SAP form Business Partner Catalog can be selected.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Name</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Parameter</th><th>Description</th></tr>
<tr><td>Price list</td><td>Customer can only select items that are defined in the SAP Business partner Master Data > Payment terms with a price.</td></tr>
</table>
</td></tr>
<tr><td>Display Filter by Item Group</td><td>Enable the Filter item list by item group.
- Yes
- No</td></tr>
<tr><td>Display Filter by Property (Start)</td><td>Display items with a numeric range of properties. Define the starting property for the range.</td></tr>
<tr><td>Display Filter by Property (End)</td><td>Display items with a numeric range of properties. Define the ending property for the range.</td></tr>
<tr><td>Filter items with Property Number</td><td>Only display items that have the property number you enter here.
Example:
Activate a property in the Item Master data:
 
and filter Web Product Configurator to display items with this property:</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Name	Description
	
Allow to copy Configurations from documents	If this parameter is set to "Yes", you can edit an existing configuration to add it again to the cart. The configuration number appears as a link in the description of a Sales order or quotation. Tap on the link to open and edit the existing configuration.

See Documents settings for the Web Product Configurator

Here you can perform document related settings for Web Configurator apps.

Note: The Web Product Configurator must be reloaded after you modify a parameter to apply the changes.

PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator > WEB Product Configurator

Parameters

Name	Description
Documents	
Allow to create Sales orders	Define if the Web Product Configurator can create Sales orders. If "Yes" is set, the **Create the order** button appears in the Cart view. - Yes - No

© 2026 Boyum IT Solutions A/S

Name	Description
	Note: If the parameter selection in "Allow to create Sales quotations" is "No", this setting is activated.
Allow to create Sales quotations	Define if the Web Product Configurator can create Sales quotations. If "Yes" is set, the **Create the quotation** button appears in the Cart view. - Yes - No
Display WEB orders only	List sales orders and quotations created with the Web Product Configurator: - Yes - No
Sales employee can select customer list of	Define the customer list that can be selected. - All customers: Sales employee can select all customers - Only linked customers: Sales employee can only select customers lists where customers are linked to Sales employees. ***See*** SAP documentation. Note: This parameter only affects operation when logged in as an employee.
Sales Employee can see sales Documents	- All Sales documents: Sales employee can see all documents. - Own sales documents: Display orders where the "Owner" is the same as the Sales employee. Note: This parameter only affects operation when logged in as an employee.
Allow to cancel a document	Define if the user can cancel a sales document in the Web Product Configurator: - Yes - No
Write Description to UDF	Add linked UDF name from the Sales document: This setting adds the description in the previously created UDF of the Sales document.
Write Variant Digest to UDF	Add linked UDF name from the Sales document: This setting adds the parameter string (parameters with prices) in the previously created UDF of the Sales document.

© 2026 Boyum IT Solutions A/S

Name	Description
Allow to modify the Requirement date	Define if the user can modify the requirement date in sales documents in the Web Product Configurator. - Yes - No Note: In Sales orders, this setting is reflected "Delivery date" field, and in Sales quotations, this is indicated in the "Valid until".
Display currency	Display currency according to one of these settings: - **Local**: the main, locally defined currency. - **System**: the currency used by the system. (default) - **Business Partner**: the currency set in the SAP Business Partner data.

See List of Products

3.1.3.6.13.4 External configurator

PATH: Administration > System Initialization > Configuration wizard > Production > Product configurator

An external configurator can be connected to Beas. These are the most important settings.

Parameters

Name	Description
External configurator activate	Enable external configurator. ***See*** External configurator.
Replace BoM completely	If enabled (default), BoM from master data is completely replaced in case that entries are found in external table beas_config_stl

see External configurator

go back to Product Configurator settings

3.1.3.6.14 Capacity Planning

PATH: Administration > System Initialization > Configuration wizard > Production.

Parameters

© 2026 Boyum IT Solutions A/S

Name	Description
Activate Capacity planning	Function for cycle time scheduling and resource planning If this option is activated, all following options and all capacity-calculation functions are activated in the program . If this function is deactivated, newly created work orders are not scheduled backwards. In the Work Order structure view all related functions (Pool calculation) are hidden.
Default calculation method	Define the calculation method at creation or change of a work order Changing a work order, times are automatically re-calculated. Here, you can define to define the method.

Backwards	With backwards calculation starting from delivery date, the start date of the work order is calculated. Required times are reserved. Existing reservation are not considered. The time of day of production end is not considered. (Default setting)
Item lead time	The item lead time (in work days) is used. Start date = delivery date - lead time (work days). All work orders get the start date and the delivery date as end date. Time of day is not considered. Use this method if in operations no times are stored. Note: With this setting, no dispatches are displayed in resource overview. **Consideration of validity date in BoM positions and routings:**

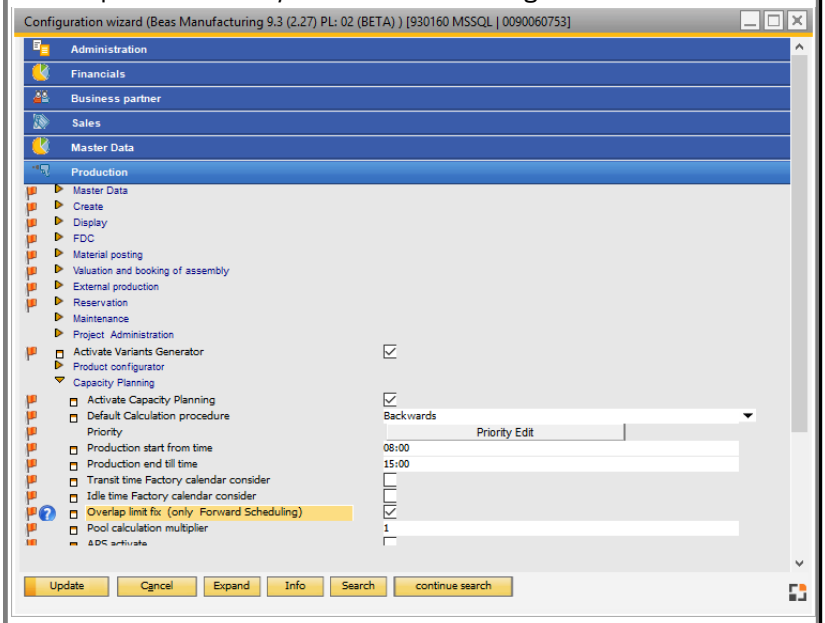
© 2026 Boyum IT Solutions A/S

	A validity period can be stored in the BoM position and routing position. If "Item lead time" is activated, the date of completion is used as check date. Otherwise the delivery date is used as reference date. ***See*** BoM – Validity period *(beas 9.1 PL: 08)*. Additional calculation methods are supported, but these are available only in APS module. *beas9.0-004-046-000 calcstdmtd 0=Backwards calculation, 1=Item duration time*
Priority	Click on the "Edit Priorities" button to configure the priorities
Production Start from time	Determines from which time of day the forward scheduling starts its calculation. ***Example***: planned start is March 3rd, 8:00. Forward scheduling calculates starting with March 3rd, 8:00. This setting is only considered by forward scheduling. **Important:** This settings has no further effect - it does not determine a shifts end. The shift is determined or calculated in the resource. ***See*** Resource – Scheduling – Planned capacity Resource shift schedule
Production End till time	Determines from which time of day backward scheduling starts its calculation. ***Example***: The scheduled completion date is March 13rd, 15:00. The backward scheduling calculates starting with March 3rd, 15:00. **Important:**

© 2026 Boyum IT Solutions A/S

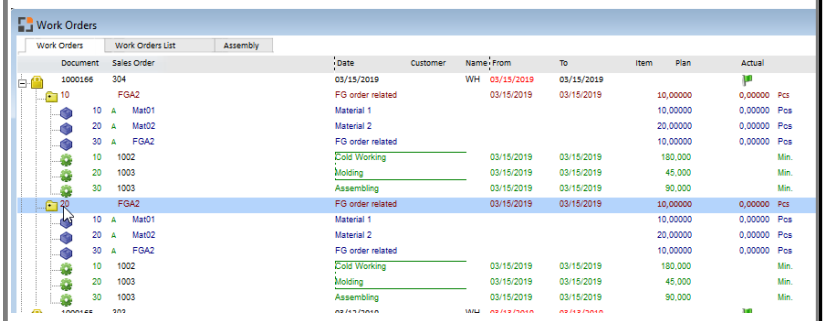
	This settings has no further effect, it does not determine a shifts end. The shift is determined or calculated in the resource. ***See*** Resource calculation video Resource – Scheduling – Planned capacity Resource shift schedule
Consider factory calendar for transit time	If enabled, calculating transit time, the factory calendar (basis calendar) is considered. **Important:** The resource calendar is not considered. Independent of the available time, the resource calendar always has a time slot of 24 hours. By default, option is disabled. ***See*** Resource – Transit time Concept transit time and idle time *beas9.0-000-003-006*, *kapahandovertimecal (N)*
Consider factory calendar for idle time	If enabled, calculating idle time, the factory calendar (basis calendar) is considered. **Important:** The resource calendar is not considered. Independent of the available time, the resource calendar always has a time slot of 24 hours. By default, option is disabled. ***See*** Routing – Idle time Resource – Transit time *beas9.0-000-003-006*, *kapalaytimecal (N)*
Activate pool administration	**Enable**: Pool management is available to control the sequence in which operations are processed. **Disabled**: Pool management and pool list are not available.
Pool calculation multiplier	A factor can be set in the production priorities. This factor is multiplied by the number of days defined here. The value is used to "age" a position, allowing its priority to increase. ***See*** Introduction Pooling Function Pooling, Scheduling

© 2026 Boyum IT Solutions A/S

	Priorities
Overlap limit fix (only Forward Scheduling)	Overlap limit fix parameter This setting is related to Overlap function If checked, the overlapping time is fixed. Therefore, the subsequent operation will start exactly at the defined time. Normally, if an overlapping time is defined in an operation, the subsequent operation can start after the defined time. It can also start later if the resource is not available at this time. This behavior can be changed with the "limit fix" global setting. In this sense, the system will find a starting time for the two operations where the starting of the 2nd operation exactly corresponds with the defined overlapping. Do the following setting in the Configuration wizard: activate "Overlap limit fix" (only Forward Scheduling):  *Window system_option_struktur.psr* ***Example*** for Planning:

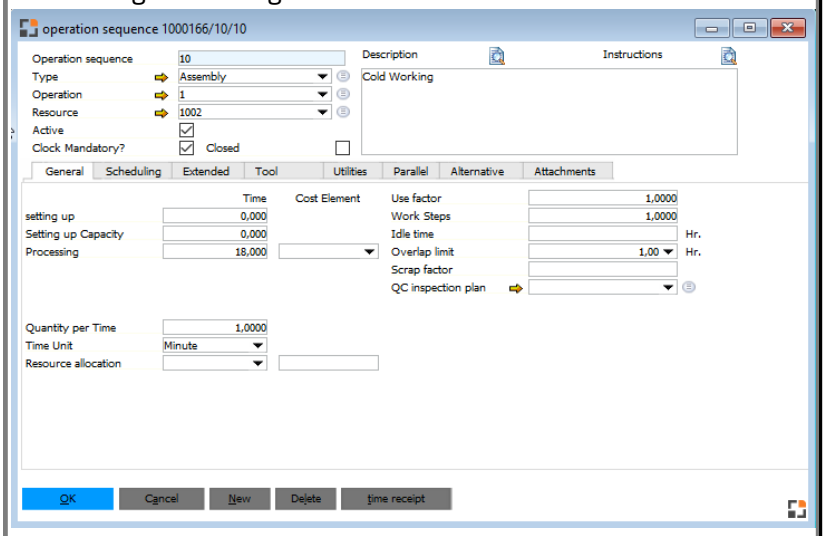
© 2026 Boyum IT Solutions A/S

The WO used in the Gantt viewer below:

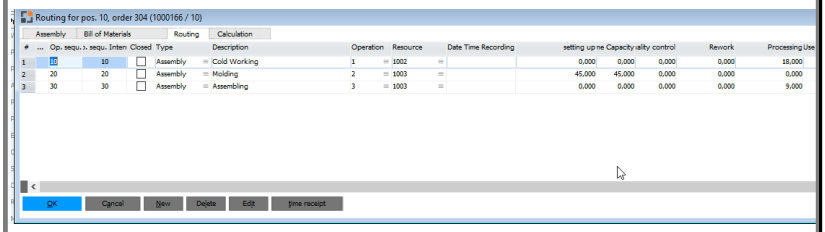


Window fert_struktur_browse.psr

The settings in routing:



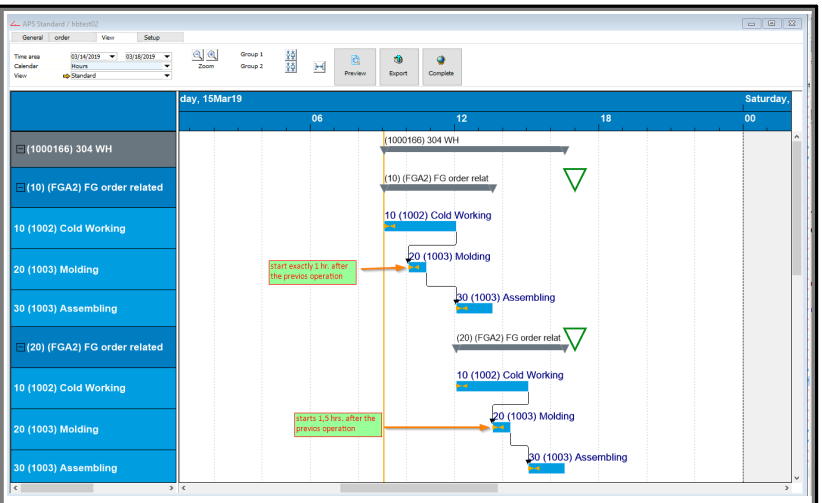
Window fert_arbplanos_edit.psr



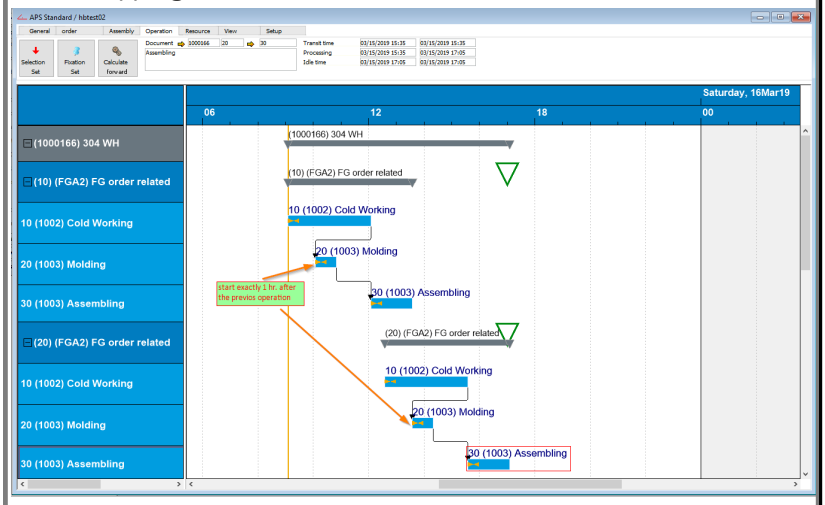
Comparison of the two results: without and with the Overlap limit fix settings:

1) Overlapping not fixed (the default behavior):

© 2026 Boyum IT Solutions A/S



2. Overlapping set to fixed:



Limitation: Max. 2 parallel / overlapped operations

Two consecutive operations are not allowed. This means that if overlapping is defined for an operation, the next operation cannot overlap.

The second following operation may be overlapped again.

WRONG:

© 2026 Boyum IT Solutions A/S

	CORRECT: **Note: Not possible with same resource** It is not possible to use same resource in parallel / overlapped operation. In this case the system ignore the overlap / parallel setting Example: Pos 10 use Resource a, Overlap =1, Pos 20 use same Resource a In this case the system ignore the Overlap information.
Activate APS	This setting activates APS and disables MS Project support.
Overwrite planning indicator	Scheduling options in beas, if work orders are marked as planned. Choice: Yes / Yes, after query / No Additional information ***see*** Work order.
Pool list: shown only planned WO	If the option is activated only work orders which are set to planned are displayed in the pool list.

3.1.3.7 Quality control

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Business Performance
System

Settings for creating and administrating QC orders.

© 2026 Boyum IT Solutions A/S

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Create new quality control orders

Goods receipt

Manufacturing

View QC orders

View measurement position

Batches

see

Quality control - Introduction

Configuration wizard - QC extended rules

Item master - Quality control

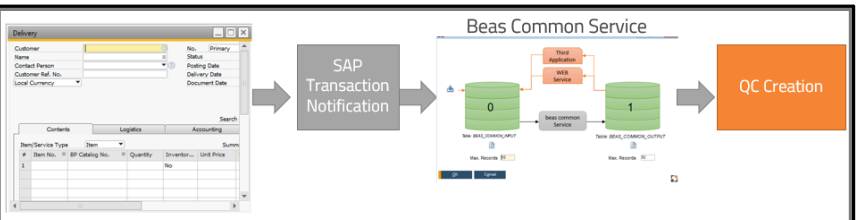
3.1.3.7.1 Create new QC

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

Name	Description
Enable QC Orders from SAP transactions	Allows to create QC orders without running Beas Define concept of creation of Quality control orders If Beas creates a transaction, the system generally creates the QC order directly. If you create an SAP Transaction with running Beas application, Beas creates the QC order, as well. **Enabled:** If this setting is activated, it is possible to create QC Orders without running Beas Application, for example when creating a Sales Delivery document. Concept: If the document is not created by Beas, the transaction notification sends a command to Beas Common Service and this service creates the QC Order.

© 2026 Boyum IT Solutions A/S



For this you must start a Beas Common Service. ***See*** Beas Common Service

Note:

If a Service creates a QC order, some functions are not available. ***See*** Notes in QC Inspection Plan.

Conditions of QC orders - pop-up question from the inspection plan - are not available in Service mode.

As the QC order is not created directly, completion may take up to a couple of seconds.

Beas 2020.05 qcbytransaction, default N

Create QC Order at booking

Determines under which prerequisites a QC-order should be created

On each warehouse:
Irrespective of the storage location, a QC order is generally created where the goods are received if a QC plan for the receipt of the goods is stored for each item.

Only to QC warehouses:
A QC order is created only when goods are received at a QC store and a QC plan is stored with each item.

This relates to all kinds of goods receipt (production, manual, purchase)
See Goods receipt

Note: A QC order is only created if the posting was made in Beas, or via Beas-WEB-Terminal, or using Beas-interfaces (e.g. Beas-common).

Creating a QC-order from outside, for example via B1iF or data import, then no QC-order will be created.

© 2026 Boyum IT Solutions A/S

	Note: This switch has no effect if the order is to release batches, or if the QC order is order-related. ***See*** Batches to be verified
QC Order create per	For all kinds of postings: for what QC order are created: posting in (document) / Item and batch / Batch **Per document:** For each line of the posting document a new QC order is created. The QC order receives the order number, origin type + docentry + linenum If more than one batch was posted in the posting document, only one QC order is created. For batches it is possible to release each batch separately, but it is not mandatory to check each batch. Origin type is indicated with a letter: W= goods receipt from purchase, F=work order, E=posting in manufactured assembly, C=generated by batch check R=return, M=manual posting **Per item-batch / per batch:** Per item and batch or only per batch a QC order is created. The ID is: "B:" + batch number The QC-order is created only, if no active QC order for this batch or item exist. If more than one batch is defined in Goods receipt or the posting line, a separate QC order is created for each batch entry. The following columns establish a link to the goods receipt document Basis-Type, Basis-Order and Invisible, Basis-Docentry, Basis-linenum. In case of goods issue for production there is an additional basis reference: secondary reference is the posting document, primary reference is the work order. This is displayed in the field „reference“. If there is no primary reference, the secondary reference is displayed there. Furthermore, the project code, employee number, the station, BEAS-version and the program user (ousr.internal_k) who created the QC order, are deposited. Thus, everything can be traced if the order was registered via terminal or WEB Apps. For existing QC orders, this

© 2026 Boyum IT Solutions A/S

	information is not added, because it cannot be subsequently determined. ***See*** Quality control order
Security query from 200 entries	At new creation of a QC order, a recommendation is issued in case that more than 200 samples would be generated. By default this setting is enabled. If disabled, there is no more recommendation given.
Directory for Copy documents	Target folder for saved copies **From Beas9.0-000 Patch 3** If in **QC-inspection plan > Files** the option "Copy" is selected, the respective file is copied to this folder when creating an inspection plan. The target file name is the source file name + an internal counter with 6 digits. ***Example:*** Source file name: Summary0104.xlsx Copied file name: Summary0104_000001.xlsx **Until beas9.0-000 Patch 2** If a folder is selected here, all attachments stored in the inspection plan and needed for the generated quality control order are copied to the specified folder with a unique name. ***Example*** of use: store Excel-files for additional registration which are filled later during processing the QC order. **Important**: Select a folder which has been released for all users. ***see*** Edit QC-order *Variable: qsdoctree*

see

Quality control

Goods receipt

© 2026 Boyum IT Solutions A/S

3.1.3.7.2 PO Goods receipt

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

Name	Description
PO Goods receipt post to warehouse	Define the purchase warehouse to which goods are posted, if "only QC-warehouse" is set at "create QC-order at posting". Only warehouses of goods receipt type can be selected. **Administration > Setup > Inventory > Warehouses- Button Extended** > create new warehouse, select goods receipt type and save. This settings affects Beas PO goods receipt. Note: In warehouse management, a goods receipt warehouse can also be defined. That one has a higher priority. ***See*** Edit warehouse master data Goods receipt – Field description
Only book to QC inspection plan if	Define the behavior of BEAS Goods receipt PO **Only if QC plan exists:** A posting on a QC-warehouse is made only if the affected item has deposited a QC plan, otherwise a goods receipt is posted to the warehouse which is stored in the order. **Always:** Independent of whether a QC-plan exists or not: goods are always posted to the incoming goods warehouse which was defined at "Incoming goods at warehouse" *Variable mw_wareneingang_qsy i=allways, n=only if qc plan existing, default i*

3.1.3.7.3 Production

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

Name	Description
Create QC Order automatically when	A QC plan can be stored in a work sequence. Choose at which moment the QC order should be created:

© 2026 Boyum IT Solutions A/S

	Manually: Only manual creation **At time receipt**: Creating during the first "Time receipt" **At login to work order**: Creating during the first logon (not the first time receipt) **WO creation:** At new creation of a work order *(beas9.0-000-003-001)* **WO creation (Background):** If the Beas Common Service is active, the creation process is moved to the service. *(Beas 2025.06)* **External operations** If dealing with an external operation, the option is supported. **At order logon**: Creating a purchase order. **At time receipt**: Creating goods receipt. Note: for external operations, there is no link from the QC order to purchase or goods receipt. Only a link to operation. That means there is always only one QC order per operation with any number of samples. A dependency from external operation-goods receipt cannot be created. ***See*** Routing Production – operation sequence Quality control order *(Variable fert_qsanlage, m (default) = manually, r = at time receipt, s = at order logon, c=at new creation)*

3.1.3.7.4 View QC inspection plan

Setting for QC Inspection plan ***See*** Edit QC-order

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

Name	Description
Change with reason	Activates the entry of a reason for a change If enabled, always a query for the reason of a change is performed This happens at: QC-inspection plan QC-Measurement position

© 2026 Boyum IT Solutions A/S

	QC-attachments (images) Not at import, mass changes, change of documents *beas9.0-004-011, Variable changelogqc*
Name UDF 1...4	User-defined fields 1 to 4 for - QC Inspection Plan - QC Order

3.1.3.7.5 View Item QC Order

UDF for Link between Item Master Data and Quality Control.

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

Name	Description
Name UDF 1 – 4	Free available fields. Window Item Master Data Tab Quality Control

3.1.3.7.6 View Samples

UDF for QC-Samples

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

Name	Description
Name UDF 1 – 4	Freely available field User-defined field for Window QC Order -> Input per Sample

3.1.3.7.7 View Measurment Positions

UDF for QC-measurement positions

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

© 2026 Boyum IT Solutions A/S

Name	Description
Name UDF 1 – 4	User-defined fields for QC Plan – Measurement Position QC Order – Measurement Position

3.1.3.7.8 Batches

PATH: Administration > System Initialization > Configuration wizard > Quality control.

Parameters

Name	Description
Release: Date of Production	Setup manufacturing date. **Date of release:** Production date is set to release date **Not edit**: Manufacturing date of the batch is not changed if there is a manufacturing date. Otherwise the release date is used.
Release: Date of entry	Setup date of receipt **Date of release:** Date of receipt is set to release date. **Not edit**: Receipt date of the batch is not changed if there is one. Otherwise the release date is used.
Release: Expiration date	Update the expiration when batches are released ? **No edit**: the existing expiration date is not modified **Date of release + Item shelf in life days**: the existing expiration date is updated. If the field "shelf life in days" is set to 0, the date will not be changed.

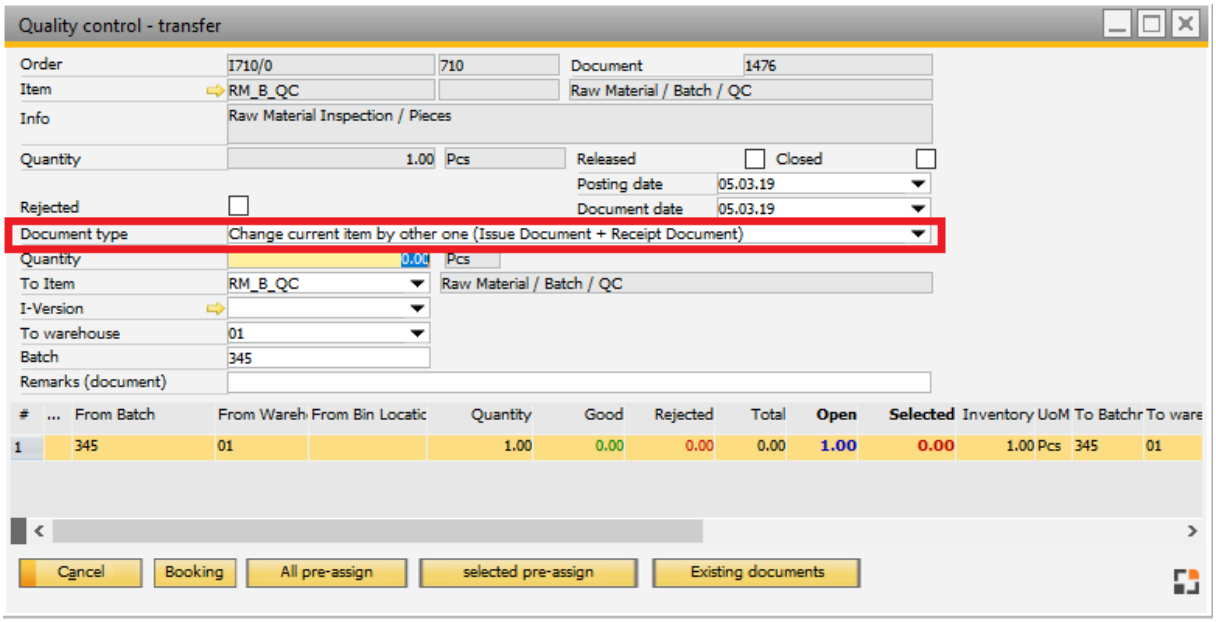
3.1.3.7.9 Transfer

In QC Transfer goods to be checked can be transferred from the QC warehouse to the release warehouse.

PATH: Administration > System Initialization > Configuration wizard > Quality control.

This parameter is used when "Issue Document + Receipt Document" was selected in the Quality control – transfer window:

© 2026 Boyum IT Solutions A/S



See Concept Work with QC-warehouse

- Further price descriptions:

Various pricing types can be set up in the Configuration wizard, in Pre-calculation and Post-calculation.

Valuation method	Area	Description
Posting price	Post-calculation	The actual posted price is summarized. If a foreign currency was used, it is converted at the moment of posting. If another item was posted than what is specified in the BoM, its posting price will not be considered for pricing. In Planned costs, the last posted price of the BoM is used.
Precalculation	Pre-calculation	Corresponds to the price entered in the production BoM item. This is to the price of the pre-calculation from which the work order was generated or according to the pricing, which was set up in **Configuration Wizard > Calcualtion > Precalcualtion**. The price is determined at the moment that the work order is created. In a production BoM item, the price is visible only if **Production > View > BOM > Prices changeable** is enabled.
Last purchase	all	Corresponds to the price according to SAP Business One – last

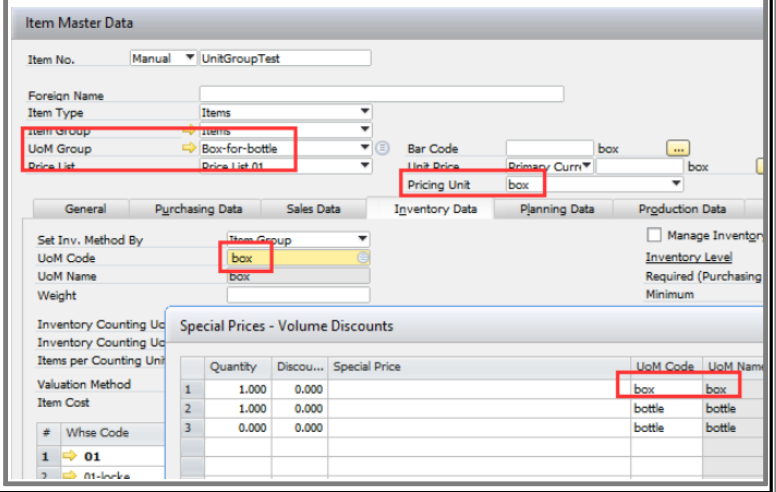
© 2026 Boyum IT Solutions A/S

price		purchase price. All types of inflow are considered (credit vouchers, manual postings). If the price is stored in foreign currency, it is converted at the rate of the last goods movement.
Last valued price	all	In SAP Business One **> Report selection > Warehouse management > Stock valuation Simulation** a price can be calculated with different methods. The valuation method refers to the price determined there.
Calculation price	all	Corresponds to the price in Beas **Item master > Calculation > Calculation price**. It can be calculated regularly using batch precalculation, and then can be used as template.
Source Item - Actual cost	QC Transfer	The system reads the price from the issue document of the original Item. **Note:** this price only applies when QC Transfer > document type "Issue + Receipt" was selected.
Source Item - Price from Entry	QC Transfer	The system applies the price of the last entry of the original. **Note:** this price only applies when QC Transfer > document type "Issue + Receipt" was selected.
Item valuation method	all	Valued at the item valuation price. **Note**: With the FiFo or Serial / Batch valuation method, an average price valuation of all goods on stock is performed. Fore more information ***see***: Item master – Valuation method. When applying Batch split with serial/batch valuation method, consider that Goods issues will be created according to the SAP serial/batch valuation method. However, Goods receipts are generated according to average price valuation. ***Example:*** An Item has 2 batches BN001 - 10 units x 10€ = 100€ BN002 - 10 units x 5€ = 50€ **Using the Batch split function:** Split 5 units of BN001 to BN002 (the system issues 5 units of BN001, then receipts 5 units of BN002)

© 2026 Boyum IT Solutions A/S

		Cost of the goods issues of BN001 is calculated by SAP (using batch/serial valuation) as 5 units x 10€ = 50€ Cost of the goods receipt of BN002 is calculated as average price of all batches in stock at the moment the goods receipt is going to be created. BN001 5 units x 10€ = 50€ BN002 10 units x 5€ = 50€ Cost average at the goods receipt is = (50 + 50) / 15 = 6.66666666€
Price list	all	The price is according to the selected price list. Price list extensions are considered. Details: If the price is stored in a foreign currency, it is converted at the daily exchange rate to the local currency. A gross price list is considered only in the goods receipt, as well as for posting transactions. In pre-calculation and post-calculation items may not be valued with a gross price list. **Note**: Beas only supports price list with numbers 1–99. Price lists with internal id > 99 are not supported. Note: Beas supports Item Unit Groups in the following way: **Price list: last purchase price** *(Beas 2022.09)* Item without Unit Groups always takes price in Inventory UoM. Item with Unit Groups: In the Item Master data you can define the Purchase Unit,

© 2026 Boyum IT Solutions A/S

		Pricing unit and Inventory unit. You can create a purchase order in many different UoMs and SAP saves the last purchase price for every UoM separately. This means: You can have many different last purchase prices. Beas supports price definition in a different unit of measure than the inventory unit. *(Beas 2025.04)* If a last purchase price exists in the pricing unit of this item, it has higher priority. Beas converts this price automatically to price in Inventory unit. **Other price lists, special price lists** Beas does not support property "Pricing Unit". The system ignores all special price lists if the pricing Unit is not the stock unit. Beas reads a price from a price list or special price list only if Item-Pricing Unit, Item-UoM Code and Price list UoM Code are the same. 
Last price from goods receipt	all	Relates to Purchase – Goods receipt. If there is no goods receipt, the last purchase price is used as reference (conversion at daily rate). If there is no price, the item is valued at 0.

Special case: Precalculation – consider special price lists

If the *consider special price lists* option is enabled in the Configuration Wizard, the pricing is extended:

- If there is a special price list for a supplier, it is used as a reference.

© 2026 Boyum IT Solutions A/S

- If there is no special price list for a supplier, then if the supplier has their own standard price list, it is used as a reference.
- If none of the above is true, the pricing is done according to the settings.

This refers to the Precalculation and creating the work order, which uses the same default as a reference.

3.1.3.8 Materials management

PATH: Administration > System Initialization > Configuration wizard.

Parameters

Name	Description
Batches Administrate	Activate when working with batch-managed items. All other settings related to batch management are only displayed if this option is activated.
Serial numbers Administrate	Activate when working with items managed by serial numbers. Settings for serial number management are displayed only if this option has been activated.

3.1.3.8.1 MRP Wizard

PATH: Administration > System Initialization > Configuration wizard > Materials management.

Calculation

Forecast

View

Parameters

Name	Description
Default Order recommendation	If an inventory history is displayed for an item, the result of the last MRP calculation is also displayed. You can determine here which order recommendation should be considered for the inventory history.

3.1.3.8.1.1 Calculation

PATH: Administration > System Initialization > Configuration wizard > Materials management > MRP Wizard.

Parameters

© 2026 Boyum IT Solutions A/S

Name	Description
Average lead time	If a delivery date is specified in the customer order or in the reserve invoice, the requirement is somewhat earlier as the delivery date must be considered. Here you can specify in work days how many work days the average delivery takes. The MRP run always displays the required date calculated in this way, not the delivery date. This setting is also considered when creating work orders from sales orders.
Lead time assurance	In addition to the lead time, the number of calendar days which should be subtracted. ***See*** Calculate Order recommendation date
Goods receipt PO idle time in workdays (Purchased items)	☐ Consider idle times of purchase parts If purchase parts should be acquired earlier than the replenishment times indicates, you can enter the number if days to be subtracted from the computed purchase date. Purchase date is computed as follows: Requirement date - delivery time as per item master - goods receipt idle time = Purchase date Note: The requirement date is not changed. If a purchase order is created, the requirement date is stored. "Goods receipt idle time" is then not taken into account. ***See*** Calculate Order recommendation date
Priority control	Defines the order of priority control In the item master data, a priority can be stored for each item. In the MRP view, items can then be sorted by priority. This defines whether a higher number has a higher priority or the other way around. Assemblies pass on their priority to the necessary materials. The priority stored in customer order overrides the priority in master data. ***See*** Customer order – Priority Order recommendation list
External operation calculate	☐ Calculates the external service required for sales orders

© 2026 Boyum IT Solutions A/S

	Only Expert mode. This option is deactivated by default. **Warning:** The function is provided for compatibility reasons and should not be activated. If active, you can call up the List of external services in the list of planning scenarios.

3.1.3.8.1.2 Forecast

This area contains options for computing forecasts. Affects the order recommendation report.

PATH: Administration > System Initialization > Configuration wizard > Materials management > MRP Wizard.

Also see:

Forecast (SAP)

Planning scenarios – Planning

Planning scenarios – Detail – Forecasts

MPS

Parameters

Name	Description
Forecast consider	**Based on SAP Business One standard** Low priority in requirement coverage calculation, customer orders are subtracted. • Offset against existing customer orders • Requirement coverage is calculated with lower priority than customer orders **Like planned customer order** The same priority is given for the forecast in requirement coverage calculation as for the customer orders. Issues of customer orders are not subtracted, forecasts from the past are always considered. • Offset against existing customer orders, if "Consume Forecast" is set to 'Yes' on sales order line • Requirement coverage is calculated with the same priority as customer orders Choosing this option hides all additional options for the forecast calculation, because these have no consequence anymore. If in

© 2026 Boyum IT Solutions A/S

	an older version of beas at special forecasts "all" was entered, this is now interpreted as "like customer order". Note: If , the "*consume forecast quantity*" switch was disabled in a Sales order, there is no offset against existing customer orders.
Pre call time for forecasts	An average delivery time can also be specified in work days for forecasts.
Requirement in the period	**Descending:** Apply a percentage of the requirement on the remaining days. **Constant:** Requirement is always the total quantity. **Ignore past:** Requirement is applied to the first day of period. ***Example:*** Today is 25th November of 2016 and there are 2 forecasts, one by week and second one by month. Quantity for both forecast are 100 Pieces. An MRP executed today provides the following results. **Calculation By Week** Descending: Quantity = 42,85. We apply a % of pending days. Complete week days are 7, pending days are 3 (Today is Friday 25) then 3(days) * 100(Pieces) / 7(days) Constant: Quantity = 100. We can execute the MRP each day of the week, the result is the full quantity. Ignore past: Quantity = 0. Quantity is considered only on the first day of period (In our example day 21 of November, first day of the week). **Calculation By Month** Descending: Quantity = 20. We apply a % of pending days. Complete month days are 30, pending days are 6 (Today is friday 25) then 6(days) * 100(Pieces) / 30(days)

© 2026 Boyum IT Solutions A/S

	Constant: Quantity = 100. We can execute the MRP each day of the week, result is the full quantity. Ignore past: Quantity = 0. Quantity is considered only on the first day of period (In our example day 1 of November, first day of the month).
Consider past	Open sales orders in the past are offset against forecasts.
Consider delivered customer orders	Consider partially delivered or fully delivered sales orders in the current period.
Consumption method	The customer orders are deducted from the forecasts. The behavior is configured here. Settings **Total time range:** The planned requirement is first deducted from the oldest forecast (backward – forward) The entire time range applies. **Definable time range:** The behavior can be further configured. The options "Direction", "Days Backward" and "Days Forward" are shown for this purpose. Depending on the direction specified, the customer order quantity is deducted from either the first or last forecast. Only the "Customer order delivery date" period less the number of calendar days (forward and backward) is considered. For the time range, an average delivery time is not deducted from the delivery date or the forecast requirement date. The setting is configured using **SAP > Administration > System Initialization > General Settings > Inventory > Planning** Activated "*Consumption forecast*" means "*Definable time range*". Deactivated "*Consumption forecast*" means "*Entire time range*". This behavior can be deactivated by specifying the forecasts, and therefore solved in a different way than in SAP. Differences between SAP - and Beas forecast consumption methods Example Environment: • Forecast defined by months and MRP period defined by months. • Sales order in the specific date 16/02 • Days Backwards/Forward defined as 3/3

© 2026 Boyum IT Solutions A/S

	Beas: When the February period is processed, the system searches for a forecast in the period + days forward and backwards. In this example: • Period: 1/02 - 28/02 • Days backwards: 3 • Days forward: 3 **Result: 29/01 - 3/03** *SAP:* • Result to searching the forecast is: **13/02 - 19/02** This difference can affect the results in SAP and Beas to obtain a different result for the forecast consumption.
Direction	Specifies the direction in which the forecasts should be reduced. Only visible if consumption method was activated as "*Definable time range*".
Days forward, days backward	Specifies the period from the delivery date of the customer order during which the forecasts should be reduced. Only visible if consumption method was activated as "*Definable time range*".

.

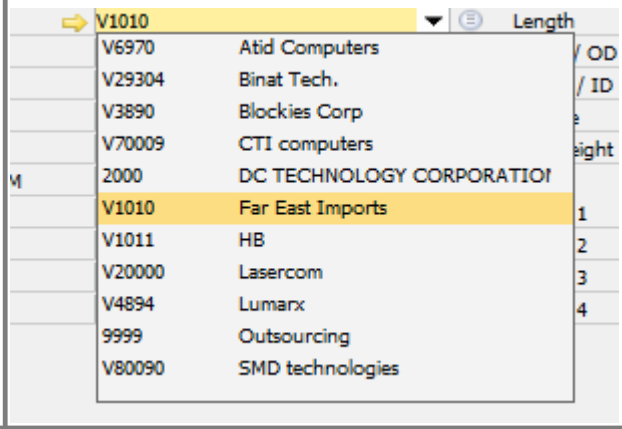
3.1.3.8.1.3 View

PATH: Administration > System Initialization > Configuration wizard > Materials management > MRP Wizard.

Parameters

Name	Description
Choose Supplier	Defines which suppliers can be selected This setting is considered in: • MRP wizard • Precalculation • Purchase request

© 2026 Boyum IT Solutions A/S

	<table><tr><th>Selection</th><th>Setting</th><th>Description</th></tr><tr><td>All</td><td>A</td><td>All vendors are displayed in a drop-down list  </td></tr><tr><td>Catalog</td><td>K</td><td>Only vendors with a catalog list for this item are displayed</td></tr><tr><td>Price List</td><td>P</td><td>Only vendors who have a price list for this item are displayed</td></tr></table> Attention: For external processes the view can be defined in External production. *Variable: mrplieferant*
Update directly	Affects the function in **Order recommendation view > Calculation update**: If this option is activated, orders to cover requirements (e.g. work orders) are inserted directly. When a work order or purchase order is created and this option is activated, the system executes an MRP recalculation **only** for the selected item. There is no calculation of the associated material positions. Calculation is very memory intensive, meaning the process takes longer when this setting is active. *Variable: mrpaktualisieren*
WO Summary	Allows multiple assemblies to be consolidated into a work order. *Variable: mrpfasammel*
Filter 1 Filter2, Filter 3 (Text#SQL-Filter)	Additional filter for Order recommendation view Up to 3 additional filters can be set up, and can be selected in **Configuration Wizard > MRP wizard > View: "Filter 1-3"**

© 2026 Boyum IT Solutions A/S

	Configuration:
	`Description#SQL-Fragment`
	Linked tables: `OITM, BEAS_MRP, OCRD`
	
	Example:
	Display only items with property 1 active.
	`Property 1#"OITM"."QryGroup1"='Y'`
	See Order recommendation – View – Filter
	Variable: mrpfilter1, mrpfilter2, mrpfilter3

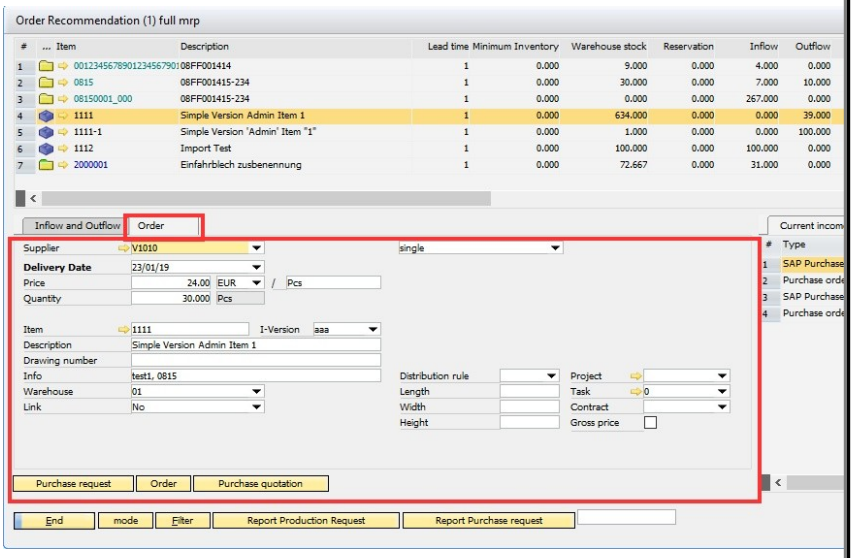
3.1.3.8.2 Purchase request

Settings for purchase request.

See Purchase request

PATH: Administration > System Initialization > Configuration wizard > Materials management.

Parameters

Name	Description
Purchase request type	Define which Purchase request system should be used in MRP This is related to MRP – Order recommendation  *Window mrp_view_masterrahmen.psr* **Purchase request** (= create Purchase request) button **Report Purchase request** button

© 2026 Boyum IT Solutions A/S

SAP Variant settings -> use Standard SAP Variant

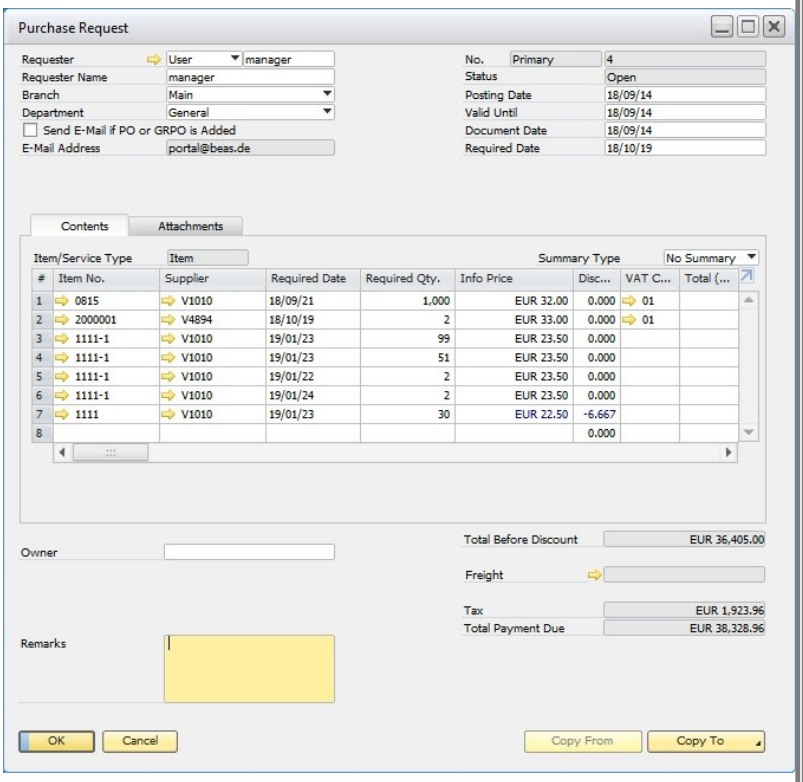
From 2020 versions we split the SAP Variant settings to:
- SAP Variant - Add to existing (Default)
- SAP Variant - New Purchase Request

Setting	Description
SAP Variant - Add to existing (Default)	The system searches for an existing open document for the same requester, and the dates are the same in which it adds the request. If no purchase exists, it creates a new one with "Valid to" = today + 30 days. Note: - Requester must be the same - Purchase request must be open - Valid to Date from Purchase request must be tomorrow or later - will always use the latest existing purchase request - "Valid to" must be smaller as the defined delivery date.
SAP Variant - New Purchase Request	It always creates a new SAP purchase request document. Note: Purchase requests are generated per line regardless of how many lines are using the same supplier.

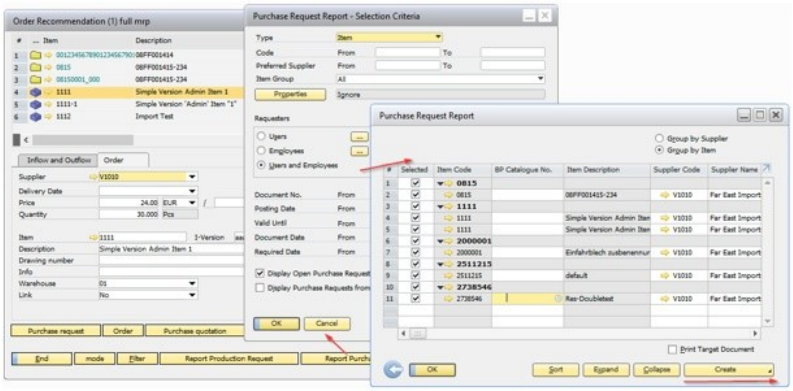
The **Purchase request** button directly creates a new SAP Purchase request document.

© 2026 Boyum IT Solutions A/S

If an open Purchase request for the current user is existing, Beas inserts the request in the existing document.

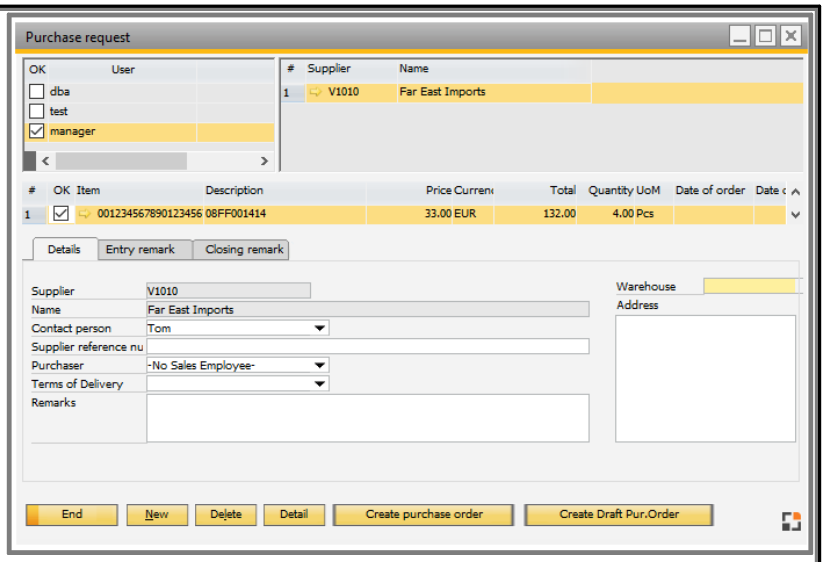


The **Purchase request** button opens the related SAP Report window. From this you can create a Purchase quotation and Purchase order.



Beas Variant -> use Beas integrated purchase request

© 2026 Boyum IT Solutions A/S

	 The Default Variant is the SAP Variant. If you make an update and used Beas Variant in an older Beas Version, then the Beas Version is the default Variant. If you do not require a special functionality, which is only inside the Beas Variant, you can simply use the SAP Variant. *beas 9.3 PL 2*
udf1 ... udf4	Free available fields for Purchase request window. Only available if Beas purchase request variant is active. How to use: ***See*** Order recommendation – work with UDF. *Variable: poreq_udf1 ..4*

3.1.3.8.3 PO Goods Receipt

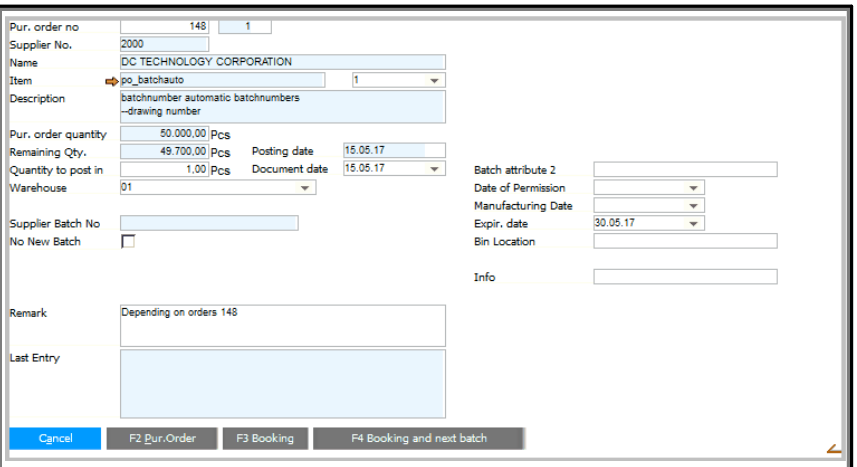
Setup options of the Configuration Wizard in **Materials Management > Goods Receipt** which have effect on the function materials management – goods receipt.

PATH: Administration > System Initialization > Configuration wizard > Materials management.

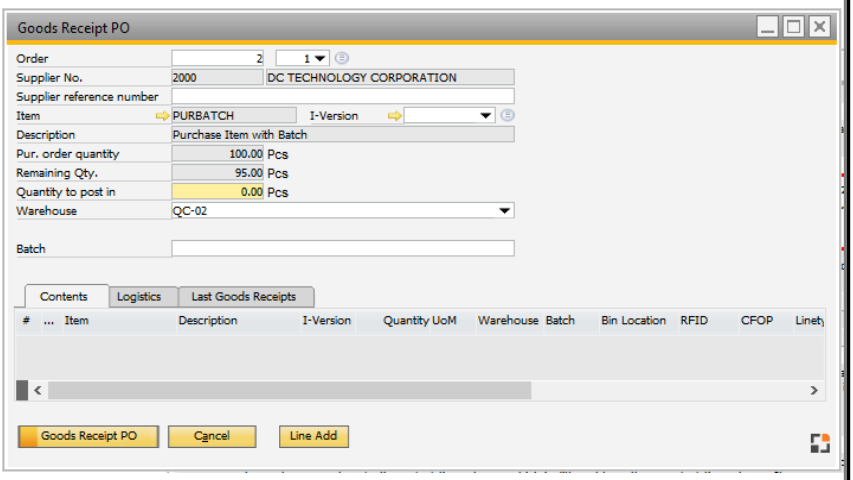
PO Goods receipt type

Name	Description
Goods Receipt PO type: Single / Multiple	Determines which Goods receipt functions are called **Single**: Per purchase order row one goods receipt is created.

© 2026 Boyum IT Solutions A/S



Multiple: (Default setting) several purchase order rows can be posted in with one goods receipt document.



Window mwgoodsreceiptpo_edit.psr

For further details: ***see*** Purchase – Goods receipts

Batch Management

Field	Description
Number Assignment	This entry determines the layout of the batch number. For settings, ***see*** batch generation
Batch Counter	This option defines which batch counter should be used.
Batch status without QC Order	Batch status on production receipt if no quality control is stored in the item for this transaction. Choice: **Unlocked / Access denied / Blocked / Default**

© 2026 Boyum IT Solutions A/S

	For the "Default" setting, the status "Basic setting of batch status" is used. Note: This status can be overwritten in the script "workordermanagement:receipt" with the variable `e_status` e.g. `setvar=e_status=2` blocks the batch.
Batch status with QC Order	Batch status on production receipt if quality control is stored in the item for this transaction. Choice: **Unlocked / Access denied / Blocked / Default** For the "Default" setting, the status "Basic setting of batch status" is used. Note: If "Default" is not set, the definition cannot be influenced by script.

Serial Number

Field	Description
Form to create xxx = serial no.	Specifies the template for the structure of the serial numbers. For more information ***See*** Batch Management, Goods receipt
Counter reading	Counter reading for serial number generation.

Pricing

Field	Description
Pricing	Defines which price should be used for goods receipts. Choice: "**Like Purchase Order**" (Default) / **like selection**.

Quality control

Field	Description
QC order Open	If enabled, in purchase - goods receipt the registration screen is opened after the creation of a quality control order. Settings **No** (default): registration screen is not opened **Yes**: master data sheet of the QC order is opened

© 2026 Boyum IT Solutions A/S

	Yes, by piece: tab "by piece" is opened. Note: switching to master data sheet is not possible! **Yes, by test**: tab "by test" is opened. Note: switching to master data sheet is not possible! **Yes, by test - last sample**: the registration for the last sample is opened Note: Option has effect only in Beas Goods receipt - Single Process, because at most one item can be registered. In WEB-App, "Multi Goods receipt" or "SAP-GRPO" this option cannot be used.

3.1.3.8.4 Manual Entries

PATH: Administration > System Initialization > Configuration wizard > Materials management.

Parameters

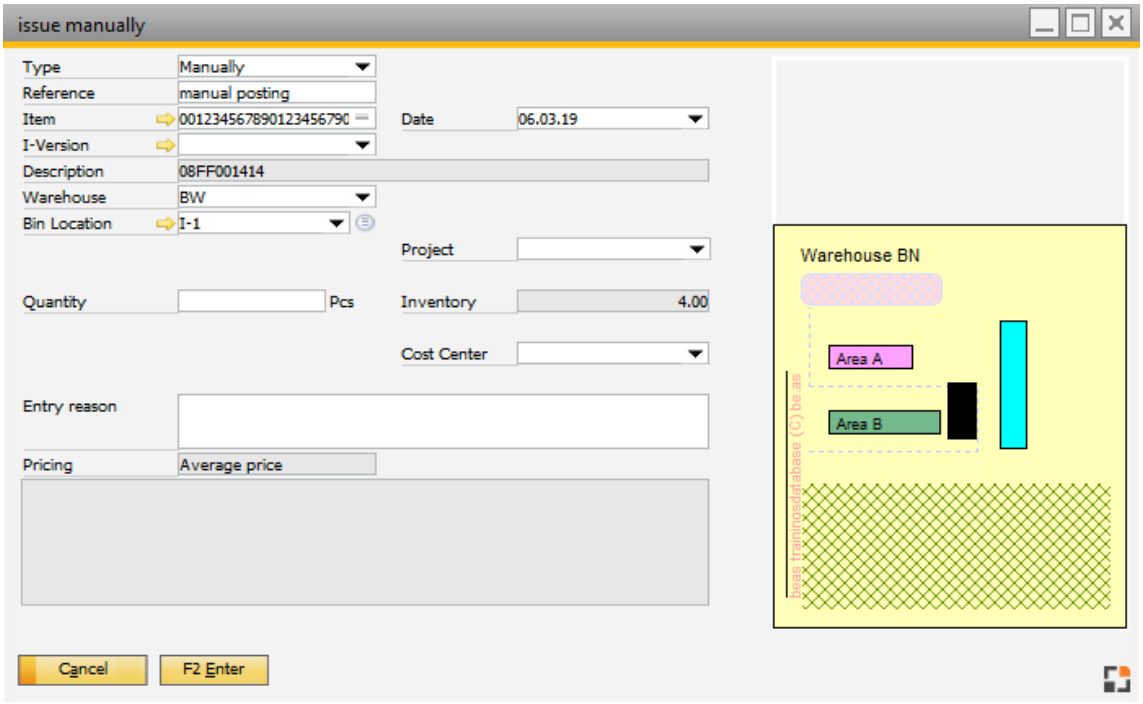
Name	Description
Purchased Items Pricing Booking	Defines the pricing on receipt of purchased items. (Not configurable for standard costs method) If Basic Initialization - Use Perpetual Inventory is disabled: The price for issue documents.
In-house Production Pricing Booking	Defines the pricing on receipt of assemblies. This pricing is used at Goods receipt of assemblies If Basic Initialization - Use Perpetual Inventory is disabled: The price for issue documents too Note: If the receipt occurs with type "Production", the valuation form stored in Configuration wizard – Production is used. The pricing defined here is also used there if the option "book like manual" is stored there. ***See:*** Pricing – Types, Concept: Valuation of assemblies Not configurable for standard costs method.
Allow Booking without prices	This option determines whether receipts with 0 price are allowed.

© 2026 Boyum IT Solutions A/S

At shortfall below minimum stock	This option determines what happens at shortfall below the minimum. Choice: **Without warning / Only warning / Block release**
Inventory Management by Warehouse No.	This option determines whether inventory management (minimal inventory, maximum inventory) should be done by warehouse. This is only for a template for creating new items, as this option can be changed again separately in the item master.
Transfer postings on business partners	Optional: Select a business partner (default: empty).

Account setting

Relates to materials management – goods issue and goods receipt column "Type"



Window mw_manuell_buchen.psr

Reference "Correction" or "manual". Following selections are possible

manual
Production
Correction
Inventory

(For production postings, the WIP account is always used)

Following account assignments are configurable:

© 2026 Boyum IT Solutions A/S

Name	Description
Manual receipt	Relates to postings with the reference "Manual" and "Inventory". G/L account for material credit. Default: "Inventory offset - Increase account.
Manual outflow	Relates to postings with the reference "Manual" and "Inventory". G/L account for material debit. Default: Inventory offset - Decrease.
Correction inflow	Relates to postings with the reference "Correction". G/L account for material receipt. Default: "Inventory offset - Increase account.
Correction outflow	Relates to postings with the reference "Correction". G/L account for material issue. Default: "Inventory offset - Decrease.

see

Manual entries

Valuation of assemblies (Setup Wizard)

Valuation of assemblies (Concepts)

3.1.3.8.5 Complaint

PATH: Administration > System Initialization > Configuration wizard > Materials management.

Parameters

Name	Description
Counter Customer complaints	Current counter status for customer complaints
Counter Supplier complaints	Current counter status for supplier complaints
Counter Internal complaints	Current counter status for internal complaints
Use RTF fields	Enable this to allow input (remarks) in RTF format (uses internal editor) If a RTF-text has been deposited already, it is switched automatically to RTF-editing, even of the RTF option is disabled.
Name UDF 1	User-defined field
Name UDF 2	User-defined field
Name UDF 3	User-defined field
Name UDF 4	User-defined field

© 2026 Boyum IT Solutions A/S

3.1.3.8.6 Inventory

Settings in Inventory are as follows.

PATH: Administration > System Initialization > Configuration wizard > Materials management.

Parameters

Name	Description
SAP inventory posting	Determines the SAP Object to execute with the stocktaking posting Disabled (Standard): Differences are posted using material issue and material receipt. This is the secure way. Disadvantage: There is no "real" inventory posting, but only stock corrections. Enabled: stocktaking is posted using SAP Business One Inventory function. Stock corrections are stored in SAP Business One Inventory. If problems arise, disable the option. ***See*** Difference posting
Use original SBO inventory	By default Beas overwrites the SAP Business One inventory functions with the own inventory solution and adds inventory functions additionally. If enabled, the original SAP B1 inventory function will not be overwritten, means own inventory functions in SAP Business One are also available. The inventory functions added from Beas, e.g. Annual inventory count will not be hidden. These can be hidden via the SAP Business One - Menu settings. ***See*** Inventory

3.1.3.8.7 Warehouse management

PATH: Administration > System Initialization > Configuration wizard > Materials management.

Parameters

Name	Description
Locations (deprecated)	Click on the **Edit locations** button to edit the locations. Only Beas

© 2026 Boyum IT Solutions A/S

	Attention: This option disappears in 9.3 PL2 version of BEAS
Warehouse (deprecated)	Click on the **Edit warehouse** button to edit the warehouse. **Attention**: This option disappears in 9.3 PL2 version of BEAS
Activate bin location management (deprecated)	Activation of this option allows the entry of items at the inventory locations. **Attention**: This option disappears in 9.3 PL2 version of BEAS
Bin Locations (deprecated)	Click on the "Edit bin location" button to edit individual bin location. **Attention**: This option disappears in 9.3 PL2 version of BEAS
Warehouse areas (expanding symbol)	Expand this option to open 4 UDF. By entering a name, the UDF is activated. ***See*** UDF
SAP B1 Bin location management to use (deprecated)	Usually, SAP B1 bin location management features are hidden, when starting Beas. Enabling this option, the original SAP B1 bin location features are available. ***See*** Bin location management **Attention**: This option disappears in 9.3 PL2 version of BEAS

Bin Locations

Bin Location management with RFID	If this option is activated, you can manage the RFID fields of each warehouse. This pertains to an additional sub-division of a storage location. RFID in Beas Bin ManagementIn Beas Bin Management a field "RFID" is available. You can use this field for working with Bin Management with additional Identifier for every single product via RFID.It is also possible to use this RFID field for other Identifiers. Here it is recommended to use a serial number for identification and not the separate RFID field inside Beas Bin Management. For more information ***see*** RFID. Limitations: - Supports only Beas bin management

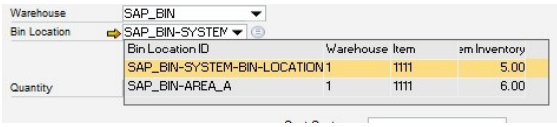
© 2026 Boyum IT Solutions A/S

	- No support for WEB Applications - No support for SAP Bin Warehouse
Post in: select bin locations	You can define the storage method for a warehouse here

Define which drop-down is displayed during the receipt process at warehouse selection.

Example: Goods receipt, Transfer – To bin location, Work order receipt, Goods Receipt PO -
The WebApps ignore this setting.

Available settings:

By warehouse sorting	The sorting defined in the bin locations are used.  - Bin Location - Warehouse Area - First item (Alphanumeric) in this bin location - Stock of the first item in this bin location
By item and filling degree (Volume)	First the bin locations already containing this item are shown. Then, they are displayed by warehouse sorting. The volume – filling degree will be shown in % **Attention**: WMS and SAP Bin Warehouses are currently not supported. ***See*** Bin Location field.
By item and filling degree (Weight)	First the bin locations already containing this item will be shown. Then, they are displayed by warehouse sorting. The volume – filling degree will be shown in %

© 2026 Boyum IT Solutions A/S

	Attention: WMS and SAP Bin Warehouses are currently not supported. ***See*** Bin Location field.
UDF 1-4	Define up to 4 UDF fields for Beas Bin Location.

3.1.3.8.8 Batch Management

PATH: Administration > System Initialization > Configuration wizard > Materials management.

Parameters

Name	Description
Basic settings for batch status of material receipt	Determines the default batch status on goods issue (goods receipt, goods issue or issue via Production or cancellation of sales documents) This switch corresponds to the setting in SAP. This switch can be overridden for the production receipt (see Production area, Batch management) **Warning**: If "blocked" is set as default, these batches are not displayed in Quality Control. Blocked batches cannot be checked.
Counters 1 – 3	In production and goods receipt, batches can be generated automatically. When defining them, the user can specify which counter should be used. The relevant counters can be set here.

Batch details

Settings for the Batch details – Window

Up to 4 UDF's can be defined here, which has to be shown. UDF's can be assigned from the batch table OBTN via the cog wheel symbol.

3.1.3.8.8.1 Batch transfer

Settings related to the function: Batch transfer.

PATH: Administration > System Initialization > Configuration wizard > Materials management > Batch management.

© 2026 Boyum IT Solutions A/S

Available parameters:

Name	Description
Transfer several batches	Enabled by default. Several batches / items can be transferred to one batch. If disabled, a batch can only be transferred to another batch.
Batch change in customer order	Disabled by default. If this function is activated, in a customer order the batch may be changed.
Posting to other item number	Enabled by default. Both the batch and item number can be changed.
Numbers for Issue / Receipt	For the posting documents created in the background a separate number range can be chosen. Activate in **Administration > System Initialization**
Batch number assignment	Define the behavior if the arrow at the target batch is clicked and thus a batch must be created Purchase: The batch is used according to purchase definition Production: The batch is used according to production definition Procurement Method: The batch is used depending on the procurement method of the currently selected item. (*beas 9.2 PL: 00*, *btransformat, default=P*)

If you set that the target item number cannot be changed, the change in the quantity of the target batch is now also blocked. In this case, we have a pure batch-transfer with same item and same number.

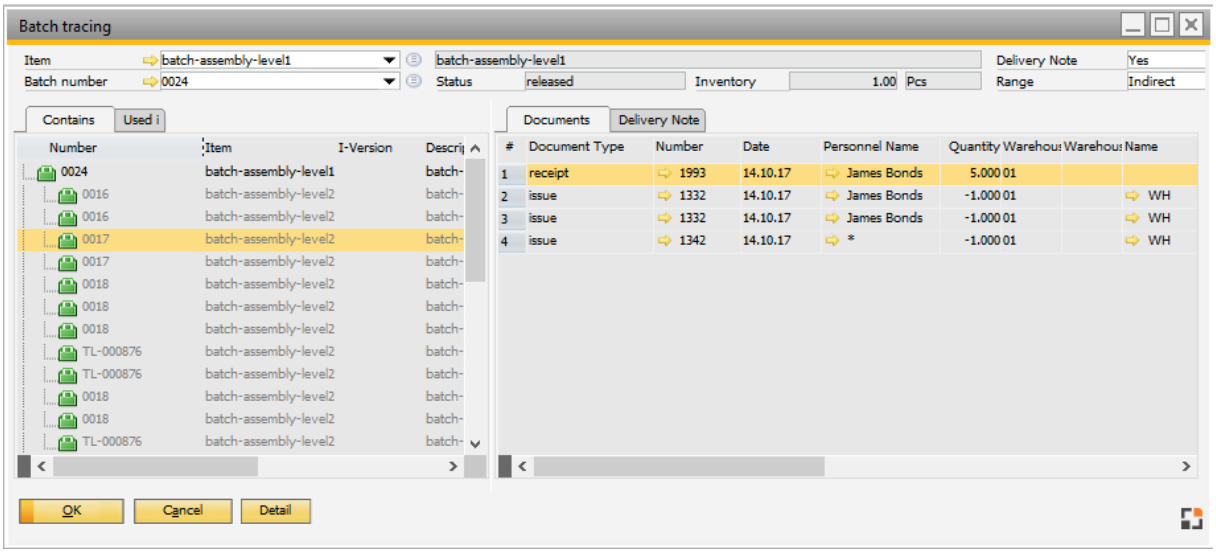
3.1.3.8.8.2 Batch and serial number tracing

All settings refer to the batch and serial number tracing function.

PATH: Administration > System Initialization > Configuration wizard > Materials management > Batch management.

See Batch- and serial tracing

© 2026 Boyum IT Solutions A/S



Window mw_tracing_master.psr

Parameters

Name	Description

Each batch only once	Prevents recursive resolutions
	
	If this option has been enabled (Default), each batch is displayed only once in batch determination. Thus, recursive resolutions are prevented.
	
	Example:
	Includes B, B includes A
	This would lead to a recursive display
	
	A -> B -> A -> B
	
	This could occur at cancellations, incorrect bookings etc.
	
	This option has to be disabled if a batch has to be actually used multiple times.
	
	Example:
	
	`Assembly A`
	`  subassembly B1`
	`  subassembly B2`

© 2026 Boyum IT Solutions A/S

	Here the same could be used in the sub-assembly B1 and B2. So the batch is used twice and will only be displayed shown only if the option "Each batch only" has been disabled. Issues may occur at partial postings if this option is enabled, so that a batch can be displayed multiple times if this partial posting includes always in the batch. In this case "batch-assembly-level2" has been issued two times for item "batch-assembly-level1". The batch will be broken down twice, accordingly. Setting every batch number only one time *beas 9.2 (5.13) PL: 05 Variable tracer_unique (J/N), default J*
Max. allowed steps	Defines the max. resolution depth The max. allowed levels in structure can be defined here. This is set to 15 by default. Minimal value is 5 (beas 9.3 PL 3: 1) ***Example:*** A includes B B includes C C includes D Would require 3 steps in total: A |-B | |-C | | | -D An upper limit has to be set, so that it does not fall into a permanent loop in a recursive case (A includes B and B includes A). The higher the upper limit, the slower the program becomes at a recursive case.

© 2026 Boyum IT Solutions A/S

	It is recommended to set the limit as low as possible for performance reasons. ***Example:*** An upper limit of 10 is optimal if it is ensured that a batch moves not more than 10 times from one assembly to another. *beas 9.2 (5.13) PL: 05 Variable: tracer_maxlevel, default 15*
Max. allowed steps	Defines the max. number of displayed rows in the result At incorrect postings the calculated result grows extensive and the calculation takes long, accordingly. This limit has to correspond to reality, so that the calculation would not take too long in case of incorrect postings. This is set to 200 rows by default. In most cases however 20 lines are sufficient. Minimal value is 50 (beas 9.3 PL 3: 10) *beas 9.2 (5.13) PL: 05 Variable: tracer_maxrows default 200*

3.1.3.9 Calculation

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Business Performance
System

© 2026 Boyum IT Solutions A/S

PATH: Administration > System Initialization > Configuration wizard.

In this section, the setup options of the configuration wizard are described in the "Calculation" tab.

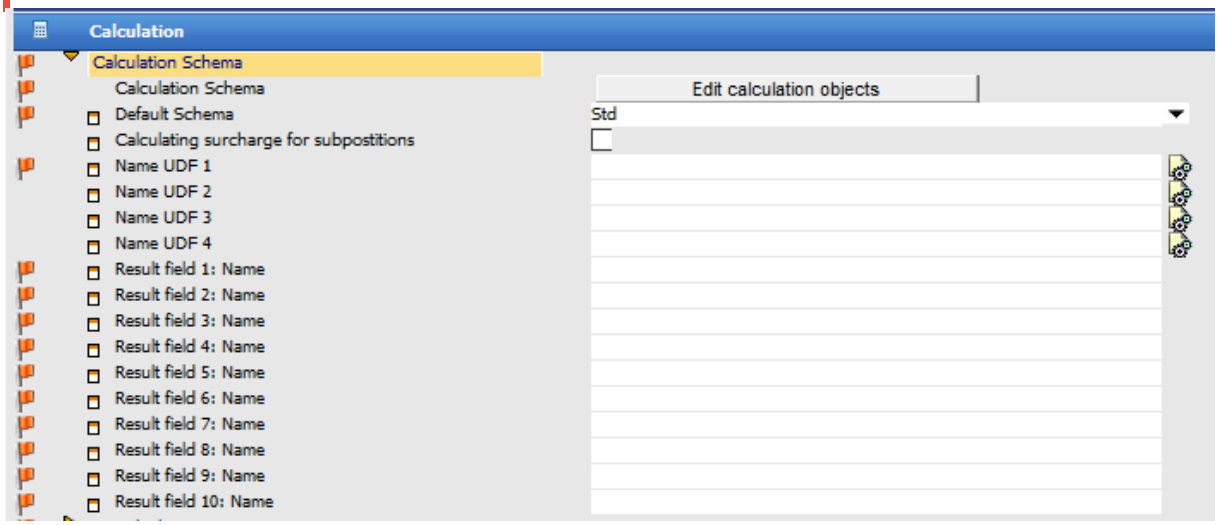
Parameters

Name	Description
Calculation schema	Opens settings for the calculation schema. ***See*** Meaning – Precalculation – Calculation Schema
Precalculation	Opens settings for the Precalculation.
Post-calculation	Opens settings for the post-calculation.

3.1.3.9.1 Calculation Schema

In this section, the setup options of the configuration wizard for the Calculation Schema are described.

PATH: Administration > System Initialization > Configuration wizard > Calculation.



Window system_option_struktur

Parameters

Name	Description
Calculation schema	This can be used to edit the calculation schema entries directly. Clicking on the **Edit calculation** objects button opens the Calculation Schema window. ***See*** Meaning - Precalculation - Calculation Schema

© 2026 Boyum IT Solutions A/S

Default schema	Determines the default schema. A default schema is used when creating a Precalculation if no calculation schema is stored in the item master.
Calculating surcharge for subpositions	Determines the calculation method in Precalculation view. ***See*** Calculation schema setup Precalculation – Concept extended view Calculation per assembly webinar
Calculation schema per assembly	Administrates calculation schema for extended View. ***See*** Calculation schema setup Precalculation – Concept extended view Calculation per assembly webinar
Name UDF1..4	User-definable fields ***See*** UDF.
Results field 1...10	Freely definable result value for Extended view and Batch calculation. Assigned in the calculation objects.

Training unit calculation

See

Precalculation - Calculation Schema

Calculation per assembly webinar

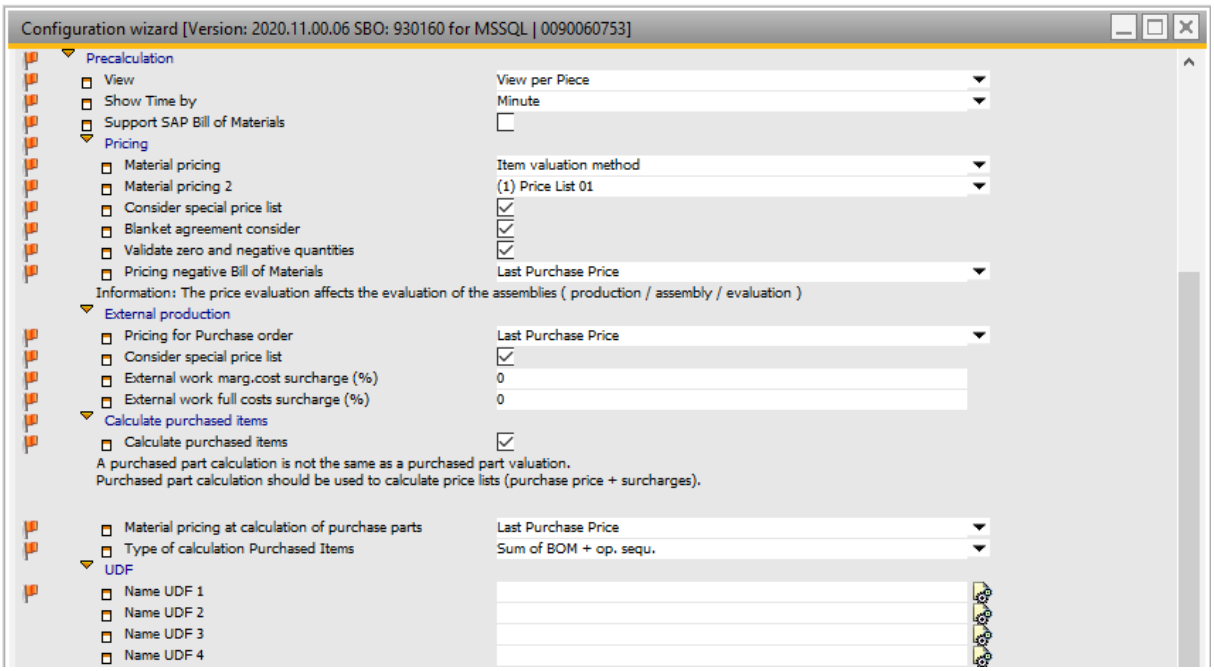
3.1.3.9.2 Pre-calculation

In this section we describe the setup options of the Configuration wizard on Calculation view as well as for valuation methods for batch calculation and assembly valuation at planned costs.

Some settings can be found elsewhere, as well. Many options can be changed in Precalculation. Once changed, the settings made here serve only as default values.

PATH: Administration > System Initialization > Configuration wizard > Calculation.

© 2026 Boyum IT Solutions A/S



Window system_option_struktur

Parameters

Name	Description
View	Determines whether the values should be shown per unit, per lot size or per fixed amount in Precalculation. For a fixed amount, the amount (e.g. 1000) can be specified in the next line. The view setting can be changed in the calculation.
Show Time by	Displays times in Precalculation in hours or minutes.
Support SAP Bill of Materials	Activate this check box to display SAP Bill of Materials in PreCalculation. If the option is activated, in PreCalculation you can see the SAP BoM (all types) as normal Bill of Materials Position. No numbering is visible, but you can do this with the Renumber function. If you create a work order from Precalculation, the system creates a 1:1 copy of the precalculation, and there are no apparent differences between SAP- and Beas Bill of Materials positions. Note: This setting is automatically activated when you activate Item structure > Support SAP Bill of Materials.

© 2026 Boyum IT Solutions A/S

Name	Description

Pricing

Name	Description
Material Pricing	Select the pricing to be used for valuing the material. (Refers to the material positions) ***See*** Pricing types Precalculation – Material – Purchase price **Note**: Beas only supports price list with numbers 1-99. Price lists with internal ID > 99 are not supported.
Material pricing 2	If material pricing does not return a price, material pricing 2 is used. By default, set to "No" as in material pricing 1 all pricing types can be defined and extended rules can be stored. If this option is activated, and in Precalculation no price was found, the row will be marked red and a message will be issued: "no price stored for one or more material items". ***See*** Pricing types
Consider special price list	If active, the special price list is considered at material pricing Serves as default for existing calculations and batch-calculations, as long as the switch in the calculation is not changed. If a preferred vendor is stored in the item master and the supplier has a special price list and this option is activated, the price stored there is used. This has higher priority than the "Material pricing" option, and relates only to the Precalculation or batch calculation. In other areas, this option has no effect. A change of the switch affects only calculations if the switch in the calculation itself was not changed manually. When active, the system searches for the price using SAP DI-API. If special price was not defined in the system, Beas continues searching the price in other tables.

© 2026 Boyum IT Solutions A/S

Name	Description
	Note: Affects only material pricing, not service pricing (external operations). **Attention:** If this setting is active, only the first 8 values of Customer definition are stored in Precalculation - Material - Purchase price! All other prices defined in the customer are ignored. If you want to work with more prices, you can activate flag "Always determine Current material Price" ***See*** Pricing types Precalculation – Material – Purchase price
Consider blanket agreement	_Determines whether existing blanket agreements are considered at pricing. If enabled (default), blanket agreements of type "specific" are considered at pricing. If disabled, only default pricing is used. **Attention**: If this is activated, MRP considers blanket agreements for pricing, as well! ***See*** Precalculation - Edit material
Validate zero and negative quantities	If activated, BoM entries with planned negative or zero quantities are valuated. Define if Beas should valuate Bill of Materials Position with Zero or negative planned quantity. This selection affects Pre- and Postcalculation. ***See*** Edit BoM – Quantity
Pricing negative Bill of Materials	Determines pricing of material for negative BoM items. This setting has global effect, and cannot be changed in Precalculation. If special price lists exist, they have higher priority. ***See*** Pricing types Precalculation – Material – Purchase price

© 2026 Boyum IT Solutions A/S

Name	Description
	Edit BoM – Quantity Collective receipt

External operation

Pricing for purchase order	***See*** External operation Purchase.
Consider special price list	***See*** External operation Purchase.
External work marg.costs surcharge (%) External work full costs surcharge (%)	Specifies the full cost and overhead surcharge on external work. Only provided for compatibility reasons. It is better to use cost types. The surcharge can also be defined here.

Calculation of purchased items

Calculate purchased items	If activated, purchased items are calculated. A purchased part calculation should not be confused with a purchased part valuation. A purchased part calculation should be used to calculate price lists (purchase price + surcharges).
Material pricing at calculation of purchase items*	Specifies the pricing of the materials when valuing purchased items, for example batch-calculation. ***See*** Edit batch calculation – pricing purchase parts
Type of Calculation purchased items*	Specifies the calculation type for purchased items "Make or Buy calculation": Only the costs of the item itself are considered. "Sum BoM + WO": The stored BoM and routing position is valued. If there is no BoM or routing position, the item itself is calculated as for "Make or Buy".

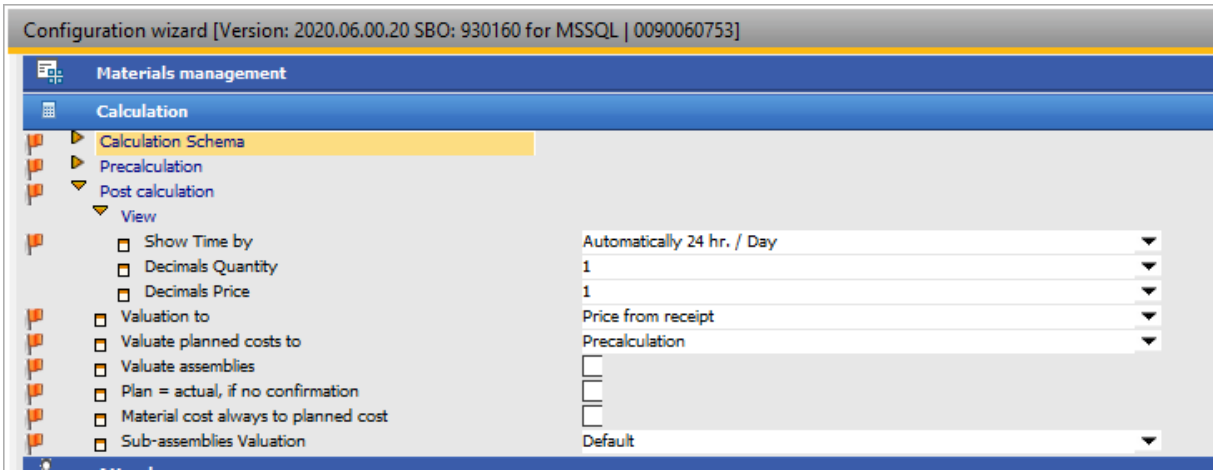
*displayed only if "Calculate Purchased Items" is activated.

3.1.3.9.3 Post calculation

This section describes the setup options for post-calculation.

PATH: Administration > System Initialization > Configuration wizard > Calculation.

© 2026 Boyum IT Solutions A/S



Window system_option_struktur

See Post-calculation – Concepts

View

Setup view and format for WO-post calculation

Name	Description
Show times per	Setup in which time unit to display the duration

Possible setup:

hh:mm	Displayed in normal time format hh = hours. Display of more than 24 hrs is possible, ***Example:*** 300 hours, 20 minutes are displayed as 300:20
Hours 0 digits	Displayed in hours without digits
Hours 2 digits	Displayed in hours with 2 digits
Minutes	Displayed in minutes without digits
Automatically 24 hrs.	Automatic display If time is less than 2 hours, minutes are displayed. If time is less than 2 days, the time is displayed in hours, otherwise in days, 24 hours=1 day *In versions prior to beas 2022.06 the limits were*

© 2026 Boyum IT Solutions A/S

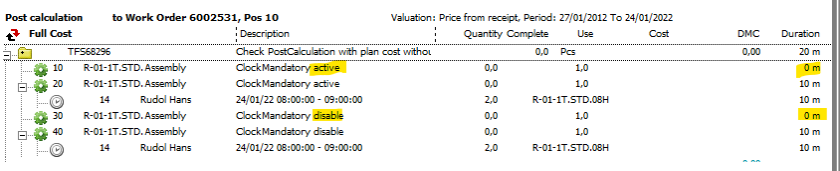
	<table><tr><td></td><td>*if < 100 in minutes and if < 4000 in hours* Right of the number, the unit is displayed (independent from language settings.) m = minute h = hour d = day</td></tr><tr><td>Automatic 8 hrs</td><td>Like "automatic 24 hrs", but 8 hours =1 day.</td></tr></table> ***See***: WO-post-calculation *beas 9.1 PL: 08*
Decimals: Quantity, price	Because in post calculation summed values are displayed, the number of decimals can be set up separately for the post-calculation. Enter decimals separately for the display of quantities and prices. ***See***: WO-post-calculation

Name	Description
Valuation to	Purchasing price for material valuation ***See*** Pricing types This option is deactivated if "Material costs always at planned costs" was activated. *(Variable naka_bewertung, Standard B)*
Value planned costs to	When making a planned/actual comparison, the planned price reference (= planned costs) can be specified, i.e. this does not necessarily have to correspond to the preliminary costing price. It is reasonable to change, for example, to “entry price” if the evaluation of an assembly is supposed to value the current entry price, not only of the actual entered material, but also the planned material. This option has a direct effect on the assembly valuation if this is set to costing analysis price to target value. ***See*** Pricing types *(Variable matsollbewertung, Standard V=Vorkalkulation)*

© 2026 Boyum IT Solutions A/S

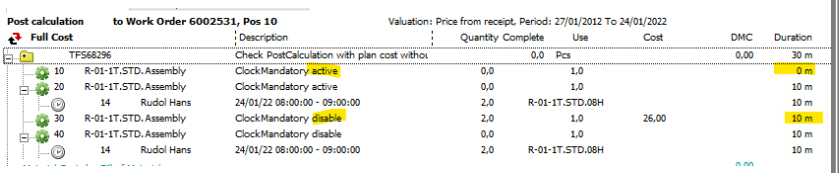
Value assemblies	If active, all receipts and issues of assemblies are fully valued. Since these are normally received and issued in the same quantity, thus behaving neutrally in terms of valuation, they do not necessarily have to be valued. *(Variable naka_baugruppe_bewertung J/N, Standard N)* Explanation With a multilevel work order, a Bill of material position has an associated assembly. The assembly is normally produced and entered and the associated bill of material position is issued. To avoid valuation problems, these entries are not valued. ***Example***: Assembly A Bill of material Pos 10 Assembly B Bill of material Pos 20 Material C Assembly B for bill of material Pos 10 Bill of materials 10 Material D All entries on "Assembly B" or "Bill of materials Pos 10 Assembly B" are not valued here since they offset each other as long as the valuation reference is the same. On the other hand, entries on "Bill of materials Pos 10 Material C" are valued. Only actual costs actually occurring are totaled. **Special case Stock withdrawal:** If assembly B is posts only 5 receipts and the "Bill of material Pos 10 Assembly B" posts 8 issues, then it must be assumed that 3 pieces were removed from stock since they were not generated through this work order. In this case, these 3 pieces are valued as regular material. ***Example***: Assembly A Bill of material Pos 10 Assembly B

© 2026 Boyum IT Solutions A/S

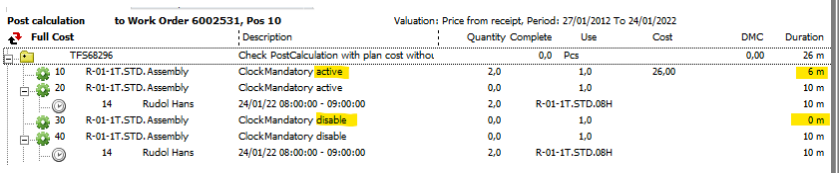
	Issue 8 pieces @ €500 Valued at 3 * €500 = €1500 Assembly B for bill of material Pos 10 Receipt 5 pieces @ €500 **Special case "Valuation of assembly postings"** The valuation of assembly entries can be activated through options / calculation. All entries are valued in this case. If the valuation default for receipt and issue is the same, then the entries neutralize each other. ***see*** Post-calculation
Plan = actual, if no confirmation	⊟ Allow to use plan costs if no time receipt exists in the system This setting allows to define Planned costs as Real costs if there is no Time receipt. PATH: Administration > System initialization > Configuration wizard > Calculation > Post Calculation > Plan = actual if no confirmation In the following example, there are 4 Routing positions, 10 + 20 with "Clock mandatory" active and 30 + 40 with "Clock mandatory" = disabled For Position 20 and 40 there are time receipts booked. Post calculation returns the following result: Duration (and costs) for Position 10 and 30 = 0  Post calculation to Work Order 6002531, Pos 10 Valuation: Price from receipt, Period: 27/01/2012 To 24/01/2022 Full Cost / Description / Quantity Complete / Use / Cost / DMC / Duration TFS68296 Check PostCalculation with plan cost withou 0,0 Pcs 0,00 20 m 10 R-01-1T.STD. Assembly ClockMandatory active 0,0 1,0 0 m 20 R-01-1T.STD. Assembly ClockMandatory active 0,0 1,0 10 m 14 Rudol Hans 24/01/22 08:00:00 - 09:00:00 2,0 R-01-1T.STD.08H 10 m 30 R-01-1T.STD. Assembly ClockMandatory disable 0,0 1,0 0 m 40 R-01-1T.STD. Assembly ClockMandatory disable 0,0 1,0 10 m 14 Rudol Hans 24/01/22 08:00:00 - 09:00:00 2,0 R-01-1T.STD.08H 10 m With definition "only not Clock in/Clock out Mandatory" the system

© 2026 Boyum IT Solutions A/S

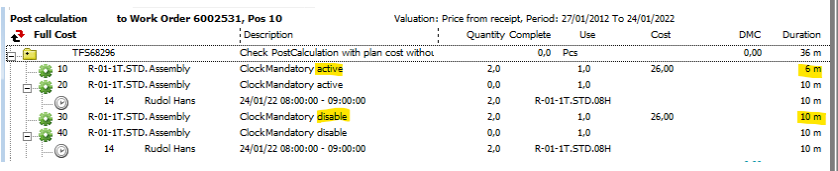
uses Planned Time for all routing positions without time receipts, if Clock Mandatory is disabled in this Routing position. In the following example you can see the planned time as real time in line 30 with no time receipt.



With definition "only Clock in/Clock out Mandatory" the system uses Planned Time for all routing positions without time receipts, if Clock Mandatory is enabled in this Routing position. In the following example you can see the planned time as real time in line 10 and no time receipt.



with Option "All" the system ignores "Clock in/Clock out Mandatory" and checks all routing positions without time receipts.

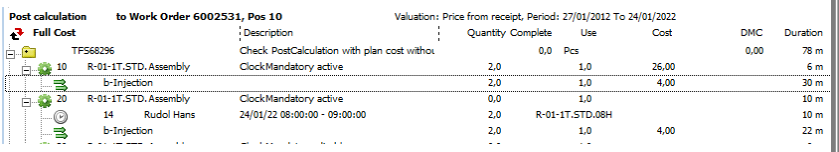


This setting is used for Post calculation and assembly valuation.

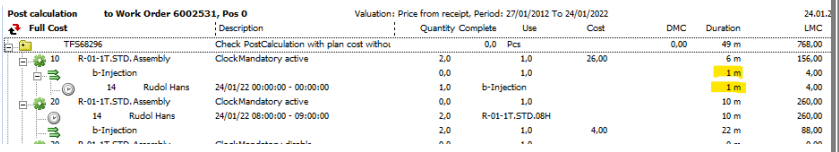
Parallel routing position is calculated too in case there is no time receipt booked for the parallel position. It uses the "Clock in/Clock out mandatory" flag from main routing position.
Example with setting "All":

Parallel position for main Position 10 and 20 do not have a time receipt. Beas uses Planned Duration/Costs for the parallel positions.

© 2026 Boyum IT Solutions A/S



if there is time receipt for the parallel resource, the system takes the sum of time receipt:



(Variable bdeohnezwangbewertung J/J2/J3/N Standard=N)

Material costs always to planned costs

If this option is enabled, when calculating the actual costs, the planned costs are always taken as reference.

The value from column "planned material costs " is taken, which was multiplied by the total planned quantity. Already posted material, as well as, any actual values are ignored. Pricing is always set to planned costs. This option is reasonable only if the production costs, but not the material costs are recognized, i.e. if the material is not posted.

Example

Producing amount of 10, single price of material 5 € / piece

Post in: 1: Planned value as per post-calculation is 10 * 5 ie 50 €

Assembly of 1 is posted in at 50 €

The second assembly would be posted in at 0 € (50 planned value - less the already posted 50 = 0)

(Variable nakamatplan J/N, Standard = N)

Sub-assemblies valuation

Determines the valuation of sub-assemblies at post-calculations

Affects only single stage post-calculations and sub-assemblies (single stage) or storage related sub-assemblies (multi-stage valuation)

Standard	How is the material valued (***see*** above Valuation to) This is standard setting (S)

© 2026 Boyum IT Solutions A/S

Last Precalculation	Uses the result of the last batch-calculation, for which "Standard price" was activated. Material price, L+M costs, and material surcharges are taken into account separately. Other surcharges or values from calculation schema are not used. Costs of external operation, work order times and costs types are not taken into account. Note: If the valuation method "Planned costs" or "Post-calculation costs" was selected at assembly posting, this can have effects, for example if L+M costs according to calculation schema are posted to the WIP account. In this case, a double posting can arise. Then, this valuation method may not be used. If no Precalculation is found, the standard valuation method is used. ***See*** Batch-calculation Batch-calculation – Standard costs Batch-calculation – single step

(beas900-000-002-005) *(Variable onelevelcalc, Standard=S)*

See

WO Post-calculation

Post-calculation

3.1.3.9.3.1 Plan = actual if no conformation

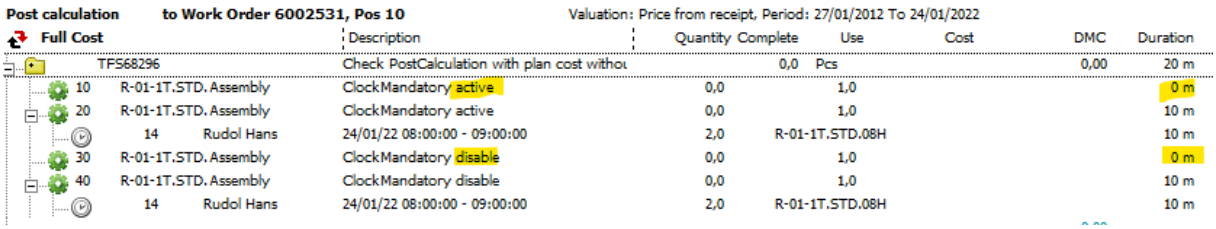
This setting allows to define Planned costs as Real costs if there is no Time receipt.

PATH: Administration > System initialization > Configuration wizard > Calculation > Post Calculation > Plan = actual if no confirmation

© 2026 Boyum IT Solutions A/S

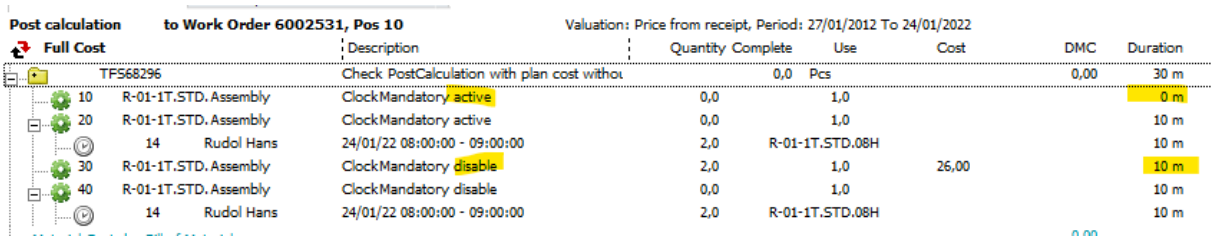
In the following example, there are 4 Routing positions, 10 + 20 with "Clock mandatory" active and 30 + 40 with "Clock mandatory" = disabled
For Position 20 and 40 there are time receipts booked.

Post calculation returns the following result: Duration (and costs) for Position 10 and 30 = 0



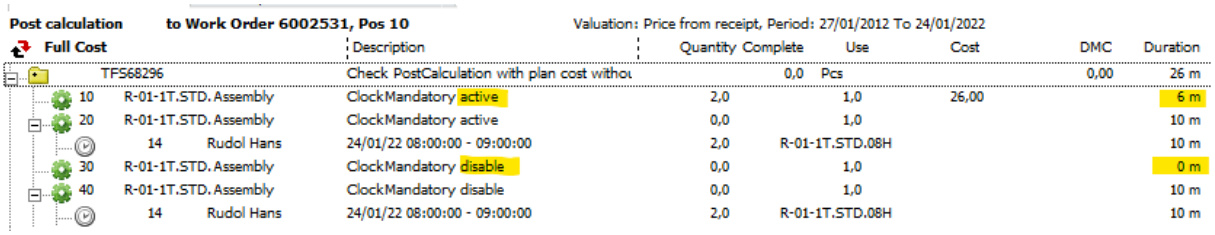
Post calculation	to Work Order 6002531, Pos 10	Valuation: Price from receipt, Period: 27/01/2012 To 24/01/2022					
Full Cost		Description	Quantity Complete	Use	Cost	DMC	Duration
TFS68296		Check PostCalculation with plan cost withou	0,0	Pcs		0,00	20 m
10	R-01-1T.STD. Assembly	ClockMandatory active	0,0	1,0			0 m
20	R-01-1T.STD. Assembly	ClockMandatory active	0,0	1,0			10 m
14	Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0	R-01-1T.STD.08H			10 m
30	R-01-1T.STD. Assembly	ClockMandatory disable	0,0	1,0			0 m
40	R-01-1T.STD. Assembly	ClockMandatory disable	0,0	1,0			10 m
14	Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0	R-01-1T.STD.08H			10 m

With definition "only not Clock in/Clock out Mandatory" the system uses Planned Time for all routing positions without time receipts, if Clock Mandatory is disabled in this Routing position. In the following example you can see the planned time as real time in line 30 with no time receipt.



Post calculation	to Work Order 6002531, Pos 10	Valuation: Price from receipt, Period: 27/01/2012 To 24/01/2022					
Full Cost		Description	Quantity Complete	Use	Cost	DMC	Duration
TFS68296		Check PostCalculation with plan cost withou	0,0	Pcs		0,00	30 m
10	R-01-1T.STD. Assembly	ClockMandatory active	0,0	1,0			0 m
20	R-01-1T.STD. Assembly	ClockMandatory active	0,0	1,0			10 m
14	Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0	R-01-1T.STD.08H			10 m
30	R-01-1T.STD. Assembly	ClockMandatory disable	2,0	1,0	26,00		10 m
40	R-01-1T.STD. Assembly	ClockMandatory disable	0,0	1,0			10 m
14	Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0	R-01-1T.STD.08H			10 m

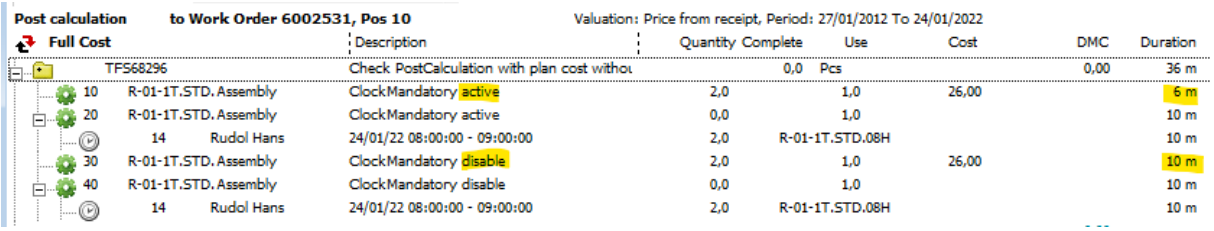
With definition "only Clock in/Clock out Mandatory" the system uses Planned Time for all routing positions without time receipts, if Clock Mandatory is enabled in this Routing position. In the following example you can see the planned time as real time in line 10 and no time receipt.



Post calculation	to Work Order 6002531, Pos 10	Valuation: Price from receipt, Period: 27/01/2012 To 24/01/2022					
Full Cost		Description	Quantity Complete	Use	Cost	DMC	Duration
TFS68296		Check PostCalculation with plan cost withou	0,0	Pcs		0,00	26 m
10	R-01-1T.STD. Assembly	ClockMandatory active	2,0	1,0	26,00		6 m
20	R-01-1T.STD. Assembly	ClockMandatory active	0,0	1,0			10 m
14	Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0	R-01-1T.STD.08H			10 m
30	R-01-1T.STD. Assembly	ClockMandatory disable	0,0	1,0			0 m
40	R-01-1T.STD. Assembly	ClockMandatory disable	0,0	1,0			10 m
14	Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0	R-01-1T.STD.08H			10 m

with Option "All" the system ignores "Clock in/Clock out Mandatory" and checks all routing positions without time receipts.

© 2026 Boyum IT Solutions A/S



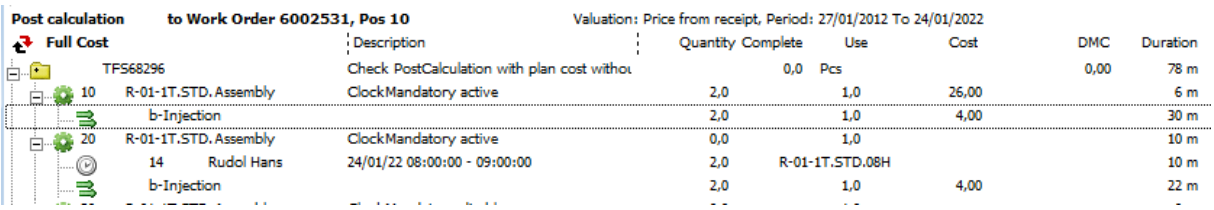
Post calculation to Work Order 6002531, Pos 10 Valuation: Price from receipt, Period: 27/01/2012 To 24/01/2022

Full Cost	Description	Quantity	Complete	Use	Cost	DMC	Duration
TFS68296	Check PostCalculation with plan cost withou		0,0	Pcs		0,00	36 m
10 R-01-1T.STD. Assembly	ClockMandatory active	2,0		1,0	26,00		6 m
20 R-01-1T.STD. Assembly	ClockMandatory active	0,0		1,0			10 m
14 Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0		R-01-1T.STD.08H			10 m
30 R-01-1T.STD. Assembly	ClockMandatory disable	2,0		1,0	26,00		10 m
40 R-01-1T.STD. Assembly	ClockMandatory disable	0,0		1,0			10 m
14 Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0		R-01-1T.STD.08H			10 m

This setting is used for Post calculation and assembly valuation.

Parallel routing position is calculated too in case there is no time receipt booked for the parallel position. It uses the "Clock in/Clock out mandatory" flag from main routing position.
Example with setting "All":

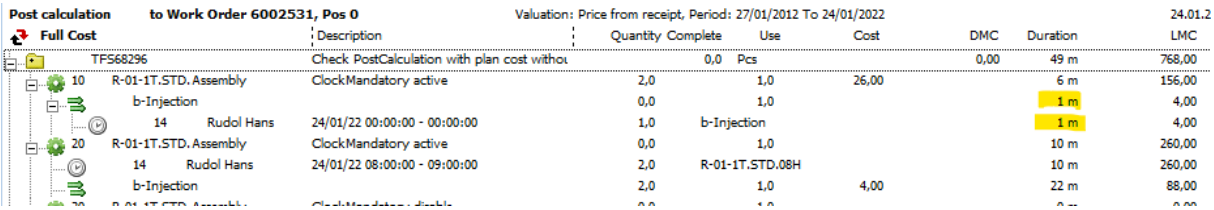
Parallel position for main Position 10 and 20 do not have a time receipt. Beas uses Planned Duration/Costs for the parallel positions.



Post calculation to Work Order 6002531, Pos 10 Valuation: Price from receipt, Period: 27/01/2012 To 24/01/2022

Full Cost	Description	Quantity	Complete	Use	Cost	DMC	Duration
TFS68296	Check PostCalculation with plan cost withou		0,0	Pcs		0,00	78 m
10 R-01-1T.STD. Assembly	ClockMandatory active	2,0		1,0	26,00		6 m
b-Injection		2,0		1,0	4,00		30 m
20 R-01-1T.STD. Assembly	ClockMandatory active	0,0		1,0			10 m
14 Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0		R-01-1T.STD.08H			10 m
b-Injection		2,0		1,0	4,00		22 m

if there is time receipt for the parallel resource, the system takes the sum of time receipt:



Post calculation to Work Order 6002531, Pos 0 Valuation: Price from receipt, Period: 27/01/2012 To 24/01/2022 24.01.2

Full Cost	Description	Quantity	Complete	Use	Cost	DMC	Duration	LMC
TFS68296	Check PostCalculation with plan cost withou		0,0	Pcs		0,00	49 m	768,00
10 R-01-1T.STD. Assembly	ClockMandatory active	2,0		1,0	26,00		6 m	156,00
b-Injection		0,0		1,0			1 m	4,00
14 Rudol Hans	24/01/22 00:00:00 - 00:00:00	1,0		b-Injection			1 m	4,00
20 R-01-1T.STD. Assembly	ClockMandatory active	0,0		1,0			10 m	260,00
14 Rudol Hans	24/01/22 08:00:00 - 09:00:00	2,0		R-01-1T.STD.08H			10 m	260,00
b-Injection		2,0		1,0	4,00		22 m	88,00

(Variable bdeohnezwangbewertung J/J2/J3/N Standard=N)

3.1.3.10 Personnel

[Administration]
[Financials]
[Business Partners]
[Sales]
[Master Data]
[Production]
[Quality Control]

© 2026 Boyum IT Solutions A/S

Materials Management

Calculation

Personnel

Business Performance

System

Options of the Configuration Wizard in the "Personnel" tab.

PATH: Administration > System Initialization > Configuration wizard.

Parameters

Name	Description
Activate attendance	Allows attendance times to be entered and managed.
Personnel view	Allows to edit the view of employee data.
Terminal	Extended settings for Beas terminal. ***See*** Terminal.
Time Evaluation	Enables the entry and management of data for time evaluation.
Day templates	Click on the **Edit Day Templates** button to access the form for defining day templates.
Calendar	Click on the **Set up Calendar** button to access the form for defining the calendar.
Absence Types	Click on the **Edit Absence Times** button to access the form for defining absence times.
Period Rule	Click on the **Edit Period Rule** button to access the form for defining period rules.
Shift Definition	Click on the **Edit Shift Definition** button to access the form for defining the individual shift models.
Wage types	Click on the **Edit Wage types** button to define individual wage types.
Time Evaluation reports	Opens the report definition for time evaluation .

3.1.3.10.1 Human resources

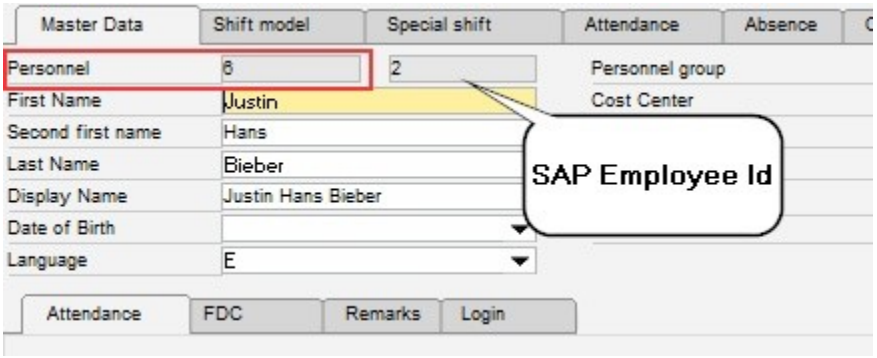
Settings for personnel master data view.

PATH: Administration > System Initialization > Configuration wizard > Personnel.

Parameters

Name	Description

© 2026 Boyum IT Solutions A/S

Numeric personnel number	Personnel (employee) numbers can be alphanumeric or numeric. By selecting this option, only numeric numbers are allowed. The parameter has the following effect: 1. Basic sorting in SAP Employee ID and not Personnel ID 2. Personnel number cannot be selected; it is assigned automatically The System attempts to use same number as in SAP Employee Master Data. If the number is not available, the system uses the next number. If this is not possible, you must insert the Personnel ID manually.  ***See*** Personnel *Variable: persnumeric* *beas9.2 PL 2*

View

Parameter name	Description
UDF1 – UDF4	Four user-defined fields displayed in personnel master data and personnel list. ***See*** Personnel

3.1.3.10.2 Time evaluation

PATH: Administration > System Initialization > Configuration wizard > Personnel.

Parameters

Name	Description
Display times	Specifies whether times are displayed in time minutes (1/60) or industrial minutes (1/100). Note: The setting affects only time evaluation, not other program features.

© 2026 Boyum IT Solutions A/S

Automatically log out	Behavior in case of "forgot to logoff" If an employee logs on and stays more than 22 hours without logging off, this is interpreted as if he forgot to logoff. In this case, a new logon is blocked. The behavior for this case can be set up: **Enable automatic logoff:** The employee can logon again. Then: - an error message is issued "too long present" - a log entry is created, the employee is marked with an error - the attendance entry gets a mark "incorrect entry" Note: to logoff correctly, the employee needs to press the **Leave** button. **Disable automatic logoff:** The employee can neither logon nor logoff To correct the entry: **Personnel master > Edit** Button - open clocking/clockout - delete entry Attendance times: enter attendance of previous day manually *beas 9.5 PL:06 Variable automaticlogoff*
Total by Week	If this option is activated, the time analysis produces a total per week.
Account Overflow	This option determines whether account overruns are only checked at month-end or every day.
Carry fwd negative balance?	If this option is activated, minus hours is carried forward to the next month.

See

Time evaluation

Configuration Time evaluation

3.1.3.10.3 Attendance

PATH: Administration > System Initialization > Configuration wizard > Personnel.

Parameters

© 2026 Boyum IT Solutions A/S

Name	Meaning
UDF1 – UDF4	Four freely defineable fields, displayed with attendance records.

3.1.3.10.4 Absence types

PATH: Administration > System Initialization > Configuration wizard > Personnel.

Parameters

Name	Description
Absence types	Edit Absence types.
UDF1 – UDF4	four freely definable fields, displayed with attendance records.

3.1.3.10.5 Wage types

PATH: Administration > System Initialization > Configuration wizard > Personnel.

Parameters

Name	Description
Absence types	Edit Wage types.
UDF1 – UDF4	four freely defineable fields, displayed with wage types.

3.1.3.11 Terminal and WEB APP

In this section you can configure settings for the Desktop Terminal and WebApps 2.1.

PATH: Administration > System Initialization > Configuration wizard.
Authorization Groups: The **Details** button opens the Administration terminal window.

Desktop Terminal
Beas Web Terminal 2.1

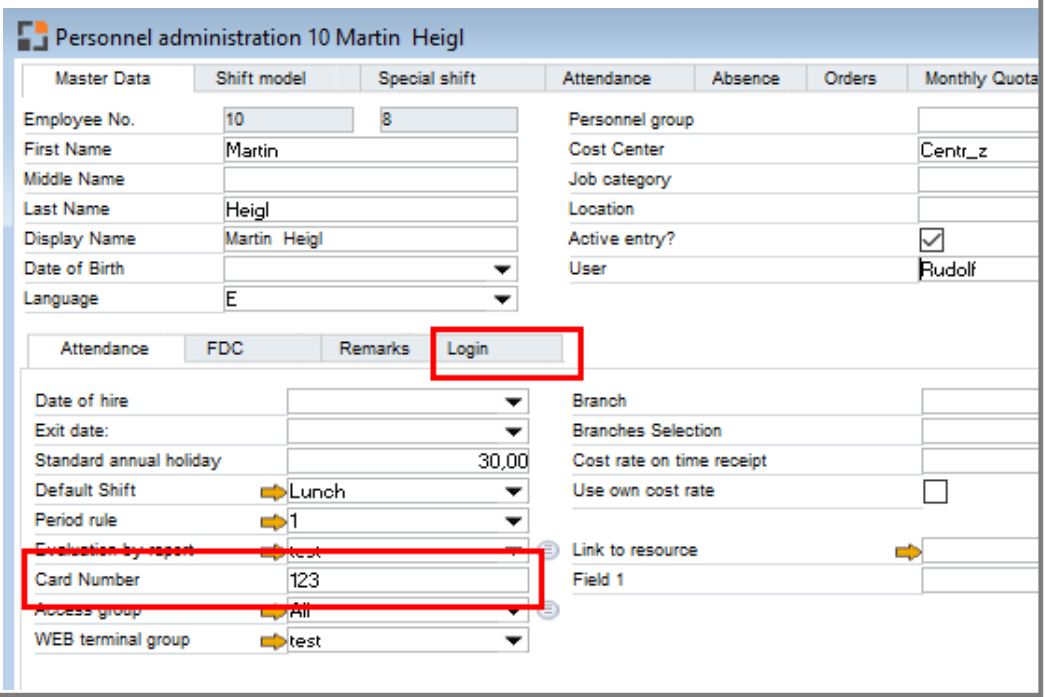
3.1.3.11.1 Desktop Terminal

Additional settings for the Terminal solution.
see Terminal – Client-Server based

© 2026 Boyum IT Solutions A/S

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP.

Parameters

Name	Description
Login	**Card number (default)**: Terminal login using card number **Name + Password:** Login with name and password stored in: Personnel administration > Login tab – Name / Password. 
Title	Define the title displayed in the Terminal Screen.
App Setup	Open Apps administration window for all apps.
Fast disconnect Attendance App	If enabled, the quick logout (timeout) is running for all attendance apps. ***Example*** of use: Separate work station for registration of attendance only, used by all employees. Only client-server based solution is affected, not the WEB solution.

3.1.3.11.2 Beas Web Terminal 2.1

In this section of the Configuration settings, you can define Login mask related parameters.

Login Mask

Asynchronous function

© 2026 Boyum IT Solutions A/S

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP.

Parameters

Name	Description
Login Mask	Define all settings for WEB APP Login Mask.
Logout (seconds)	Define the automatic logout from WebApps (in seconds) The WebApps switch automatically to the Login-Mask if the user does not move the mouse or press any key. Default = 1800 seconds (30 Minutes) ***Example:*** The user opens the WebApp "WO Goods Receipt". If they do nothing on the device, the system switches to the Login Mask and the user must log in again. Note for license: The user disconnects from all reserved licenses and they are free for other users.
Default number of items per page	With this global setting, you can define the number of lines to view in WebApps windows.
App Setup	Open Apps administration window for all apps.
Location	Define Location, example for definition of printers. ***See*** Location.

3.1.3.11.2.1 Login Mask

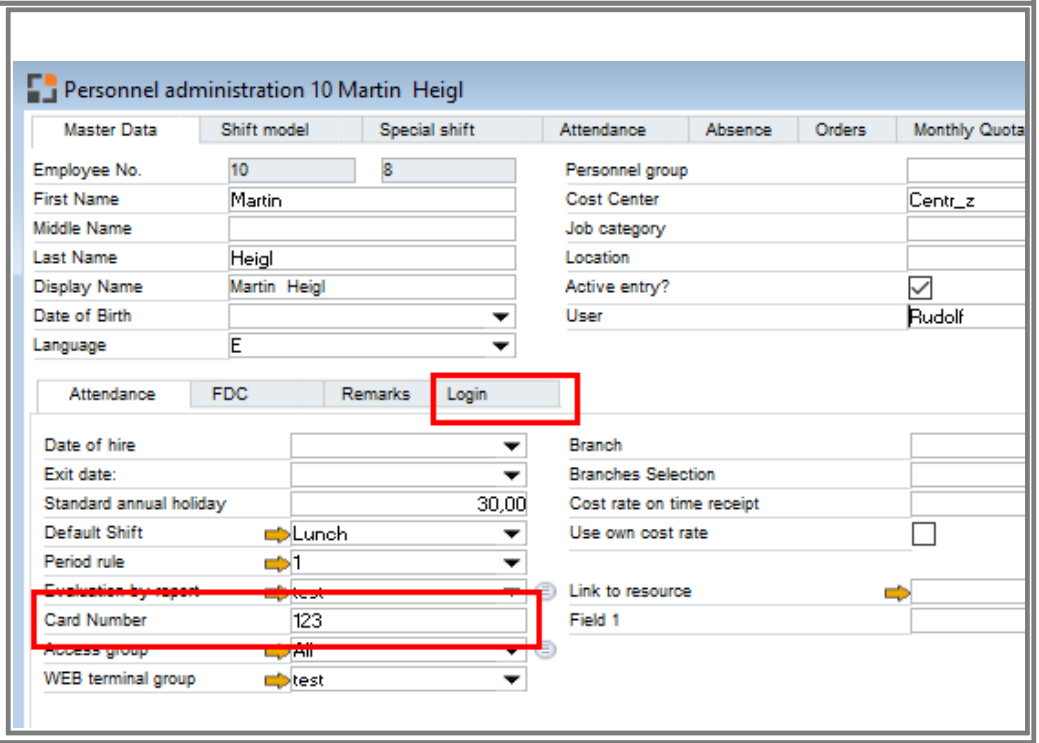
Here you can find Login mask settings for the Beas Web Terminal 2.1.

Note: you must restart the HTML server or HTML Service after changing the settings.

Parameters

Name	Description
Login	Define how to log in to the Web Terminal: **Card number (default)**: Terminal login using card number **Name + Password:** Login with name and password stored in: Personnel administration > Login tab – Name / Password.

© 2026 Boyum IT Solutions A/S

Name	Description
	
Title	Define the title displayed on the Login screen.
Work station name	Select how station name is to be entered: **No/manually/selection list.** **Selection**: No new login is possible. Station ID needs to be deposited in Station Setup Wizard. A password is queried.
Location	Select how location is to be entered: **No/mandatory/optional.** Location ID is mandatory For printing control. It can be deposited in station setup wizard or the client selects the location.
Shift	Additional field "Shift" is displayed. This information can be accessed at printing. (<shmtl.shift>)

back to Terminal and WEB APP settings

3.1.3.11.2.2 Asynchronous function

Allow to work in asynchronous mode.
Use this if you work with many clients.

For more information on settings ***see*** Video

Note: Now all settings are saved in this central place.

© 2026 Boyum IT Solutions A/S

The function is working only if Beas Common Service is activated.

Parameters

Name	Meaning
Activate Asynchronous transaction System	Use the asynchronous mode for Print Documents and create Transaction over Beas Common service. If this setting is activated, it is also activated in the Beas Manage Server.
Result Behavior	Define which messages the system should display if the common service cannot return the result in a short time - No display notification - Display All - Display Errors only
Waiting time	Enter the number of seconds that the app should wait until moving forward with the next transaction.

For more information on the Asynchronous function:

back to Apps administration

3.1.3.12 AI - Artificial Intelligence

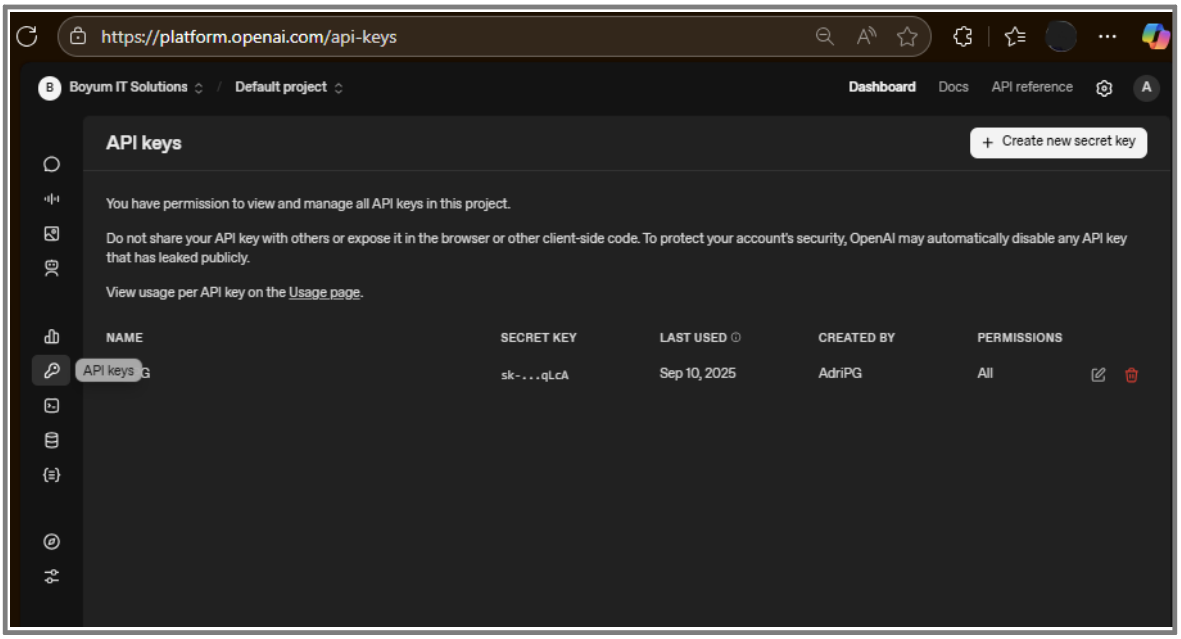
To access the Beas AI Assistant, you must have an Open AI key set defined in this area or in the User configuration:

Model: The Assistant takes ChatGPT 5 as its operating framework by default.

NOTE: Changing the model may return different results, and answers may be less specific or take longer with older models.

Token: Define the token for the user. You should generate your own token in the Open AI platform. ***See*** Open AI platform page.

© 2026 Boyum IT Solutions A/S



.

3.1.3.13 Business performance

PATH: Administration > System Initialization > Configuration wizard > Business Performance

This setting category is only available if the business performance module is activated in **Administration > System Initialization > Configuration wizard > Administration > Modules to activate**.

Parameters

Name	Description
Data basis for effective manufacturing services	**Wage data:** This option uses values manually added to Business Performance as "Wage Data", in the menu Business Performance\Monthly Values\Wage Data. **Work order confirmations:** Using this option, Business Performance automatically retrieves production data from Time Receipts and records them under "Production Activities", no manual data entry is required. The selection of this option is mandatory when using Business Performance for Absorption Costing.
External accounting (respective import program)	Activates the import program for external accounting.

© 2026 Boyum IT Solutions A/S

Absorption costing	Enables absorption costing. ***See*** detailed setup of Absorption costing.

3.1.3.14 System

Administration
Financials
Business Partners
Sales
Master Data
Production
Quality Control
Materials Management
Calculation
Personnel
Business Performance
System

The options of the the "System" section in the configuration wizard are described here.

PATH: Administration > System Initialization > Configuration wizard.

Beas check for messages activate: Enable Beas to check for messages.

DI API

If you log in to Beas outside of SAP as a Beas Standalone version user or as a Terminal user, Beas requires an access account to DI API. Special Authorizations are required for this user. Configuration is also possible in Beas logon (without SAP) in the login screen under Options.

Name	Description
DI-API Connection type	Define connection type to the DI-API Only if Beas starts INSIDE SAP Business One **GetDICompany (Shared connection)** (Standard) With this setting Beas and all other AddOns use same instance of DI-API. This reduce the memory requirement **Conext Cookie (Non Shared Connection)**

© 2026 Boyum IT Solutions A/S

	In this variant Beas start a new instance of the DI API. This need more memory. Use this only, if you've follow error message and it's not a problem with 64/32 Bit installation: *Error connecting DI API (singlesignon): (xxx/yyyy)* For more information ***see:*** https://support.boyum-it.com/hc/en-us/articles/360009975673 *beas 9.3 PL 1*
License Server	Insert the conenction to License Server.
B1 API User	Administration User - System user Beas requires administrative access to SAP Business One for database check, and check of transactions which are executed via different interfaces, WEB-server, Beas-server and the terminal. The SBO user entered there, does not require a SAP Business One Professional-User-license. The user requires special authorizations ***See*** required SAP Business One - rights (***See*** Terminal)
SBO API Set Password	Click on the **Set Password** button , to set the password for the API user.
SBO API Test	Test the connection between the entered user and the DI API by clicking on the **Start Test** button.

WEB Services

Name	Description
SAP Service Layer	SAP Service Layer setting group
Active	Select check box to activate SAP Service Layer
Server	Enter server name
Version	Enter server version name
Test Service Layer Connection	Click this button to test Service Layer connection

© 2026 Boyum IT Solutions A/S

Extended error message

Beas can automatically create activities for the current user if certain errors occur. Further measures are described in this activity. If the current user is a terminal or pure Beas user, they will be unable to receive these messages. In this case the recipient is specified here.

Parameters

Name	Description
Extended error messages	Determines if and how the extended error messages should be activated Default = Beas activity. This setting as recommended as this is the only way to have access to the full functionality. **Beas activity**: a Beas activity is generated and displayed in the Beas message window. SAP Business One **activity**: a SAP Business One activity is generated. a business partner must be specified on which this activity is set. If no business partner is stored, a Beas activity is generated automatically. **NO**: no activity is generated.
Recipient of activity	Determines who receives this activity if it is created by a terminal or pure Beas user without a SAP Business One account.
Activity Business partner	Needed if working with SAP Business One activity. For activities, a business partner must be specified. Ideally your own company should be created as a customer and this entered here.

Further parameters

Name	Description
Check Beas messages	Select check box to activate the checking of Beas messages in the system.
Beas News show	Select this check box to display Beas news.
Browse: Max. number of lines (to be displayed)	Maximum number of rows In all lists and selection windows (not analyses, however), only a certain number of lines is shown to facilitate the presentation of

© 2026 Boyum IT Solutions A/S

Name	Description
	the result on the screen. The maximum number of result lines can be set here. The higher the number, the longer the list takes to display, and the higher the load on the network or the server. Default : 200 If a list contains more rows than set up here, on the bottom right corner binoculars are displayed. Clicking on it, all data can be displayed via **Display all**. Note: This is supported by window Templates. Thus the number the rows to be displayed can be defined in the template. The setting in the template has a higher priority here. ***See*** Display - Lists
Participate in the usability improvement program	Check mark: select if applicable. The Usability Improvement Program (UIP) was created to give all Boyum IT customers the ability to contribute to the design and development of the Boyum IT products. Participation in the UIP is voluntary, and the end-results are software improvements to better meet the needs of our customers. **How does UIP work?** When you choose to participate in the UIP, the add-on automatically sends information to Boyum IT about how you are using the product (number of configurations, number of usages etc.). The information then is utilized to improve the features customers use most often. **The UIP does not send any Business Data or confidential information.** All data sent between you and the Boyum IT servers are encrypted.

© 2026 Boyum IT Solutions A/S

Name	Description
	Will I be contacted or receive spam if I participate? No. UIP reports do not contain contact information, such as names, addresses, or phone numbers. This means that you will not be asked to participate in surveys or to read junk e-mail, and you will not be contacted in regards to your participation. **If I choose to participate, can I opt out later?** Yes. You can choose to start or stop participating at any time using the configuration options. **Is the Usability Improvement Program spyware?** No. Spyware can collect information or act on your computer without your full knowledge or consent. UIP does not take actions if you choose to not participate. You can also start or stop participating at any time. **Can I review the information before it is sent to Boyum IT?** Unfortunately the information cannot be reviewed for a couple of reasons: • The Usability Improvement Program is designed to enable all our customers to participate. To be able to handle large number of customers sending data, the collected information is recorded so that the Boyum IT servers can efficiently process all the data. The nature of this processing makes it difficult for most customers so review the information. • The data is sent automatically, without interrupting your work. For these reasons, the Usability Improvement Program is not able to show the information collected.

© 2026 Boyum IT Solutions A/S

Name	Description
	We recognize that some customers might be uncomfortable allowing the information collected by UIP to be sent without having an opportunity to review it fully even though the information does not contain contact information. If you are uncomfortable with sharing this information, please choose not to participate. ***See*** Video B1 Usability Package - Introduction

Customer-specific extensions local	Defines if a customer-specific extension has to be saved locally
	Define where the customer-specific extensions has to be saved
	By default these are saved in following directory
	`\\[server]\b1_shr\beas software\project`
	This can be changed in the option "Directory for customer-specific extensions"
	
	All directories are copied from
	`\\[server]\b1_shr\beas software\project`
	to
	`%programdata%\beas\project`
	and checked and run from there if this function is used.
	
	Note:
	Beas has no access to the local directory if it is launched in service mode. In this case it is necessary that the option is deactivated.
	
	Option deactivated:
	
	Advantage for a central directory:
	Distribution to the clients is not necessary. Thus a deleted file is deleted on all clients and changes will be translated immediately without restart. Server service mode only works if this function is deactivated.
	
	Disadvantage:

© 2026 Boyum IT Solutions A/S

Name	Description
	If the network is already overloaded, this function may worsen the situation. **Option activated** **Advantage:** Changes can be performed and checked, before these are distributed. Program performance is better at heavily loaded networks. **Disadvantage:** Server service has no access to it. A deleted file must be deleted manually on all clients in the directory `%programdata%\beas\project`. An automatic solution is not performed. *beas 9.2 PL: 04*

Server Directory for customer-specific extensions	Project folder - Main folder
	Determines the local directory where customized extensions are stored. If you leave the field empty, the following directory is used:
	
	`\\[server]\b1_shr\beas software\project`
	`\\[server]\b1_shr\beas software\addon`
	
	Below the defined directory the following structure is created:
	
	`[chosen folder]`
	`|_ AddOn`
	`|_ [one folder per AddOn]`
	`|_ project`
	`|_ standard` (default folder for customizing scripts]
	`|_ [customer-name]` (Folder for customer specification)

© 2026 Boyum IT Solutions A/S

Name	Description
	Example: In AddOn-Administration - Customer-Specification - Directory was set up:"`beas`" In Configuration wizard `\\myserver\project\` Customized extensions are saved under: `\\myserver\project\project\beas` **Important:** The directory needs to be accessible by all clients. Should not be changed if possible. ***See*** also: Customizations.

3.1.3.15 WMS

WMS Settings

The following parameters are only available if WMS program is installed on the current computer.

Name	Description
Integrate WMS Reservation System	Check box option to activate integration of WMS Reservation System. By default, this parameter is NOT activated. If active, all reservations created by each system are automatically reflected in the other system. No over-reservation is possible. The systems validate the reservation status before the creation of any SAP documents and both systems ensure that reservation rules are not broken. NOTE: We recommend this setting to be used in activated mode. If you deactivate this parameter, it terminates synchronization between the two systems, and removes all information coming from WMS. ***See*** more information in Beas-WMS integration documentation.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Name</th><th>Description</th></tr>
<tr><td>Picking Type</td><td>Define how the user can create the picking document.
<table>
<tr><th>Setting</th><th>Description</th></tr>
<tr><td>Pick List Proposal + Picking List (default)</td><td>Create the pick list proposal and automatically create a picking list when stock is available.</td></tr>
<tr><td>Pick List Proposal</td><td>Create the pick list proposal.</td></tr>
<tr><td>Pick List Proposal + Picking List + Status Ready</td><td>Create the pick list proposal and the picking list, and set the picking list to "Ready" status.
Wit this setting, the user can make the pick list automatically "ready" after the pick list has been created.

Attention: Both Beas Manufacturing and PMX WMS must be upgraded to 2024.06 or later for these parameters to work!</td></tr>
</table>
wms_picktype</td></tr>
<tr><td>Enable pick process</td><td>Enable Picking window in work order structure view.
wms_enablepickprocess</td></tr>
<tr><td>LUID behavior</td><td>Define the behavior of LUID generation.
<table>
<tr><td colspan="2">The setting affects all windows that provide creation of a receipt or transfer document.</td></tr>
<tr><th>Setting</th><th>Description</th></tr>
<tr><td>New LUID will be generated automatically</td><td>Default setting. If this parameter is set active, the LUID dropdowns only display "new". If you do not make a selection in the LUID dropdown, the system creates a new pallet automatically.</td></tr>
<tr><td>Do Nothing. None Assignment</td><td>With this setting active, the LUID dropdowns display "new" and "no". If you choose "no", the system does not assign the item to a pallet. If you do not define a LUID, the system selects "no" automatically.
If you create receipts with Services or script, the system always uses "no".</td></tr>
</table></td></tr>
</table>

© 2026 Boyum IT Solutions A/S

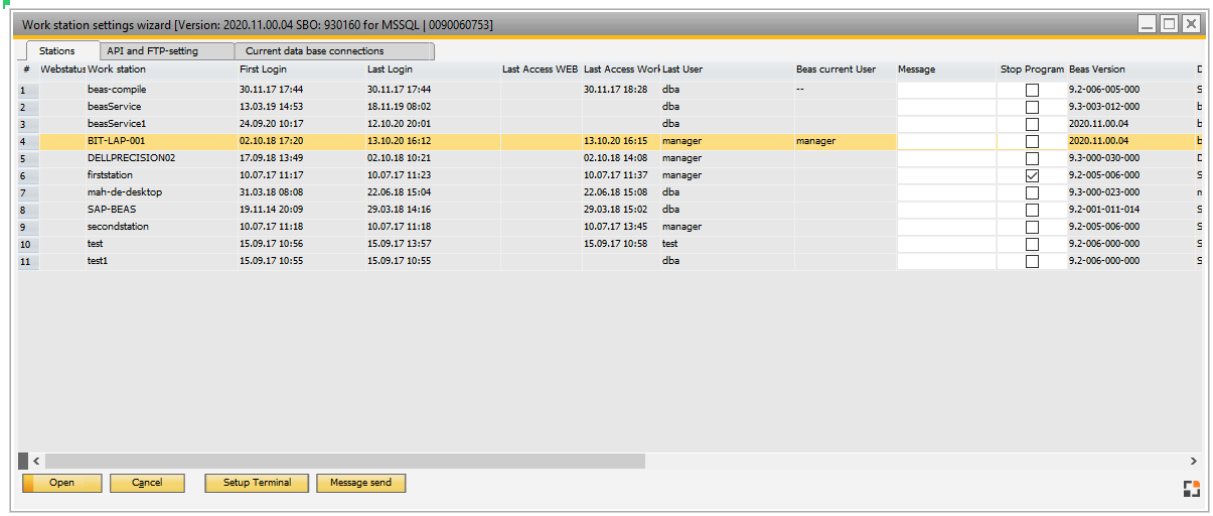
Name	Description
	<table><tr><th>Setting</th><th>Description</th></tr><tr><td></td><td>Note: This option is not compatible with Track location of serial numbers option, because in this case the SSCC is mandatory in WMS.</td></tr></table>
Filter by Zone (WO Issue screen)	Filter stock in the WO Material Issue function according to the WMS Zones defined in this setting.
Filter by Bin (WO Issue screen)	Filter stock in the WO Material Issue functions according to the WMS Bin locations defined in this setting.

See Produmex-Beas integration

See up-to-date BEAS-WMS Integration infopackage

3.1.4 Work station Settings wizard

PATH: Administration > System initialization > Work station settings wizard.



Window system_station_browse.psr

The station settings wizard is the control center setting and monitoring all stations and sessions. This list displays all computers or sessions that are logged on to Beas.

© 2026 Boyum IT Solutions A/S

Furthermore, the following functions are available:

- View and manage stations (name, location, description).
- Manage stations (display total and remaining memory, disk space).
- Terminal: set up which functions are available (right-click menu or button below).

Via this the management and also the support of the existing PC's will be greatly simplified. The station name, location and a description can be adjusted.
Window settings and Templates are supported.
For field descriptions ***see*** Edit work station.

Determination of Station name

All Beas sessions need a unique station name. The BIOS name of the current computer is read out when Beas is installed locally.

The `clientname` environment variable is read and used if it is a terminal server.
The current Windows user (`username` Environment variable) is used as the station name if the `sessionname` environment variable begins with `rdp` or `ica`.

The optimal setup for a remote server is the following:

- The `sessionname` environment variable begins with `rdp` or `ica.`
- The Windows user must be unique and stored in the `username` environment variable.

Excerpt from the Microsoft Documentation

Retrieves the NetBIOS name of the local computer. This name is established at system start-up, when the system reads it from the registry.
GetComputerName retrieves only the NetBIOS name of the local computer (..).
The behavior of this function can be affected if the local computer is a node in a cluster.
For more information, ***see*** ResUtilGetEnvironmentWithNetName and UseNetworkName.

Note: Query of the station namen

Via BeasScript the station name can be queried as follows:

`messagebox=<stationname>` -> the station name, which Beas is using
`messagebox=<global:system_computername>` -> Computer name from GetComputerName()

© 2026 Boyum IT Solutions A/S

Note:
The entry of the own station will be selected automatically at opening of the list.

API and FTP settings

Data connection

Field	Description
License server	Port address of the license server. Must only be specified if there are multiple license servers in the server infrastructure or the license server is not found.
DI-API-SQL-Driver	SQL driver which should be used for connection to the DI API. Only change if the automatic setting does not work. Recommended setting is "Automatic".
B1 API User	Must normally be the SAP manager, as this account is also used to perform administrative functions such as database adaptations.
SBO API Set Password	The password for the DI API user.
SBO API Test	Tests the connection to the DI API. **Important:** If Beas is started within SAP, an SAP-internal connection to the DI API is established. If Beas is started without SAP or a data check is performed BEFORE login, a separate connection is established. This can be tested here.
Program server	Location at which Beas is installed on the server. Normally \\<servername\b1_shr Beas checks whether an upgrade is available in this directory. If you do not want this check to be performed, enter "no".

FTP

The FTP connection is set up in this area. Setting is only necessary if the basic configuration does not work.

Field	Description
Account	Your user name for access to the Beas support server. So far no services have yet been offered. For this reason the field must be empty.
Password	Password for this account.

© 2026 Boyum IT Solutions A/S

FTP address	Address of the FTP server. Leave blank generally so that the default address is used.
Passive mode	Passive mode is used.
Passive use host address	Only visible in passive mode. Please only configure for problems. (Extract from documentation of Chilkat FTP client) This can handle problems that may arise when an FTP server is located behind a NAT router. FTP servers respond to the PASV command by sending the IP address and port where it will be listening for the data connection. If the control connection is SSL encrypted, the NAT router is not able to convert from an internal IP address (typically beginning with 192.168) to an external address. When set to 1, PassiveUseHostAddr property tells the FTP client to discard the IP address part of the PASV response and replace it with the IP address of the already-established control connection. The default value of this property is 0.
Port	If the default port should not be used, the port can be specified here manually.
Proxy mode	Is there a proxy server? If so, the type can be configured here. On activation, all other proxy properties are displayed. The following settings are possible : (Extract from documentation of Chilkat FTP client) ProxyMethod = 1 (SITE site) USER ProxyUsername PASS ProxyPassword SITE Hostname USER Username PASS Password ProxyMethod = 2 (USER user@site) USER Username@Hostname:Port PASS Password ProxyMethod = 3 (USER user@site) USER ProxyUsername PASS ProxyPassword

© 2026 Boyum IT Solutions A/S

	USER Username@Hostname:Port PASS Password ProxyMethod = 4 (USER/PASS/ACCT) USER Username@Hostname:Port ProxyUsername PASS Password ACCT ProxyPassword ProxyMethod = 5 (OPEN site) USER ProxyUsername PASS ProxyPassword OPEN Hostname USER Username PASS Password ProxyMethod = 6 (firewallId@site) USER ProxyUsername@Hostname USER Username PASS Password
Proxy Hostname	Name of proxy server
Proxy Password	Password for proxy server
Proxy Port	Port
Proxy Username	Username
Test connection	Connection is tested. If an error message is returned, a window containing the analysis opens. Use the PAGE key to scroll down.

- Current database connections tab

Info: This tab is only visible in MSSQL Version.

Field	Description
Host name	Host name
Program name	Name of the executed program
Status	current status (runnable, sleeping)
Cmd	Last command

© 2026 Boyum IT Solutions A/S

Last Batch	Last batch run
Login Time	Login Time
SPID:	Process number
Current Command:	SQL-command, which was executed with this process
Blocked from:	If greater than 0, blocked by the given process
Blocked command:	Last command of the blocking process

Functions

Function	Description
Open	Open station entry to edit.
Cancel	Close window without saving changes.
Setup terminal	Opens the window Terminal settings.
Add	Create new work station - the editing window opens.
Remove	Remove selected work station.
Message send	Send message to the client: Type message in a pop-up window.
Delete old entries	⊟ Remove not used station entries Delete all station settings for stations which were not connected in the last 2 months.

back to Station settings wizard

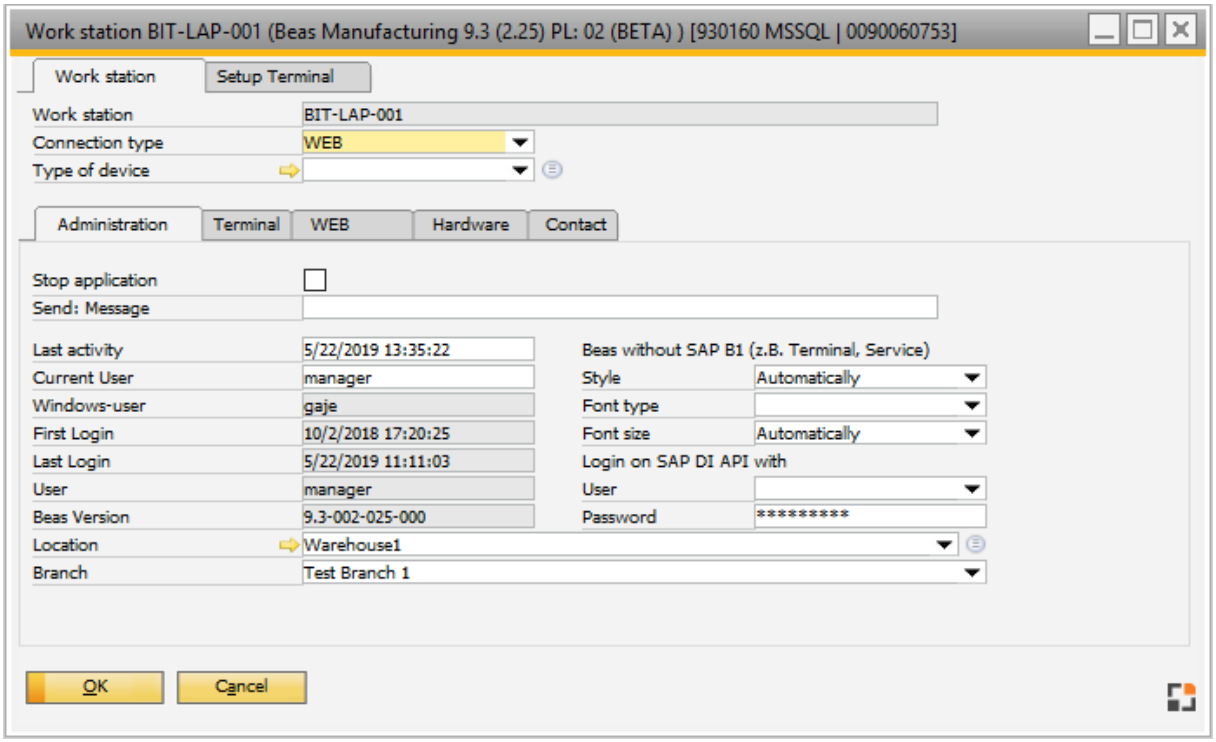
3.1.4.1 Edit work station

Settings for a station, a terminal or a WEB client can be edited or viewed here.

PATH: Administration > System initialization > Work station settings wizard > **Open** selected work station.

Work station tab

© 2026 Boyum IT Solutions A/S



Window system_ station_ edit.psr

Field	Description
Station	Display logged on work station. ***See*** Station Name.
Connection type	Selection: WEB, LAN. Only information, no function.
Type of device	Selection from previously defined device types.

Administration tab

Field	Description
Stop Application	This station stops automatically after max. 2 minutes if activated. This can be used e.g. to update on a terminal server. It does not apply for WEB applications.
Send: Message	A message can be sent to the indicated station here. This may take max. 2 hours. Applies not for WEB applications

Current status

Field	Description
Last activity	Display the last activity on this station. This is updated every 2 minutes.
Windows user	Name of the Microsoft Windows account.

© 2026 Boyum IT Solutions A/S

First logon	Display the first logon in Beas / Beas terminal.
Last logon	Display the last logon in Beas / Beas terminal.
User	Name of the person who has been last logged on on this station.
Beas Version	Beas Version with which the server has been started.

Beas without SAP B1 (eg. Terminal, Service)

The design can be defined here if beas is started without SAP Business One (eg. in terminal mode or as service)

Default setting is "Automatically". The SAP-settings will be read in here, if they exist.

Field	Description
Style	The SAP Business One design.
Font type	Font type. **Important**: The font has to be also installed on the client!
Font size	The font size to be used.

Logon on SAP DI API User / Password	A own SAP DI API license is required for each terminal station. The user can be indicated here with which the terminal station has to be logged on to the SAP DI API. *beas 9.2 PL: 02*
Menu	Standard menu (person independent) assigned o this station If a PC terminal is used, this determines which menu items should be displayed for which authorization group. If the entry is left blank, the setting according to the Personnel setting is used. If a menu is selected, the corresponding entries are displayed depending on the definitions of the workstation. For WEB-Terminal: currently no function.
Location	The location of this Station or WEB Clients. Use this for Printer Definitions. ***See*** Location
Branch	Multi Branch solution: Define the Default Branch for this Station. The System can use this to define Filter (example: only Items for this Branch).

Terminal tab

Following settings for the terminal are in this area

© 2026 Boyum IT Solutions A/S

Field	Description
Operation	Define the type of operation of the device Possible is mouse/touch and keyboard. Affection at type keyboard. PC-Terminal: A quick operation button is displayed at the buttons, so that all of the functions can be used through the keyboard. This can also be set in the **Terminal > right mouse button > "Mode"** ***See*** Terminal *Field OperationMode, beas9.0-000-002-007*
Background Color	Terminal: Define the color of the background
Image	Terminal: An image file can be selected here which is displayed in the terminal in offline mode The image file has to be in a directory on which the Terminal has access. The length and height can be set via comma separation. ***Example:*** \\servername\pictures\logo.jpg,1500,500 *beas9.0-004-047-000*
Preview window	Extended setting for the preview window The behavior of the preview window can be set here. **Synchronous**: Quick display but the program cannot be used during the loading process. **Asynchronous**: slightly delayed display, because the display window is started as a separated program. During the loading process, it is possible to continue working during the loading process. **Manually** (only Terminal): Preview can be opened manually via right mouse-click. **Automatically** (only Terminal): Preview is opened automatically with the start of the terminal. *beas9.0-004-053-000*
Timeout	Client-Server based Terminal: Time for automatic logoff at inactivity. ***See***: Terminal - Client-Server based

WEB tab

Field	Description

© 2026 Boyum IT Solutions A/S

Default application	This option was deleted in Beas 2020.02.00.07
Work Station password	A password has to be defined at WEB-logon with a station specification. This is defined here.

Hardware tab

Description of the station, client or hardware.
Display of information (e.g. hard disk storage, device memory etc.), which can be determined.

- Button Position Correction in %

This defines the original position.
100% = the original position
< 100% = move to top
> 100% = move to bottom
- 1 = automatic determination of the correct position of the buttons.

For this, the system changes the zoom factor of the buttons, which changes the vertical position, as well.

If you change this property, the system changes the buttons in this form directly. You can check if the buttons are in the correct place without clicking on update.
By clicking on update, the new setting is active without restarting the program. Currently opened windows are not affected.

Contact tab

Contact person and location of this station, this client or hardware.

Below: only display

Field	Description
Station	Short description
Station name	Name of the station. In virtual machines or terminal sessions the environmental variable „SESSIONNAME“. If it is „CONSOLE“, then the computer name is used. Session name is usually the name of the user, who logs on to the terminal session.
First logon	First logon to Beas.
Last logon	Last logon to Beas.

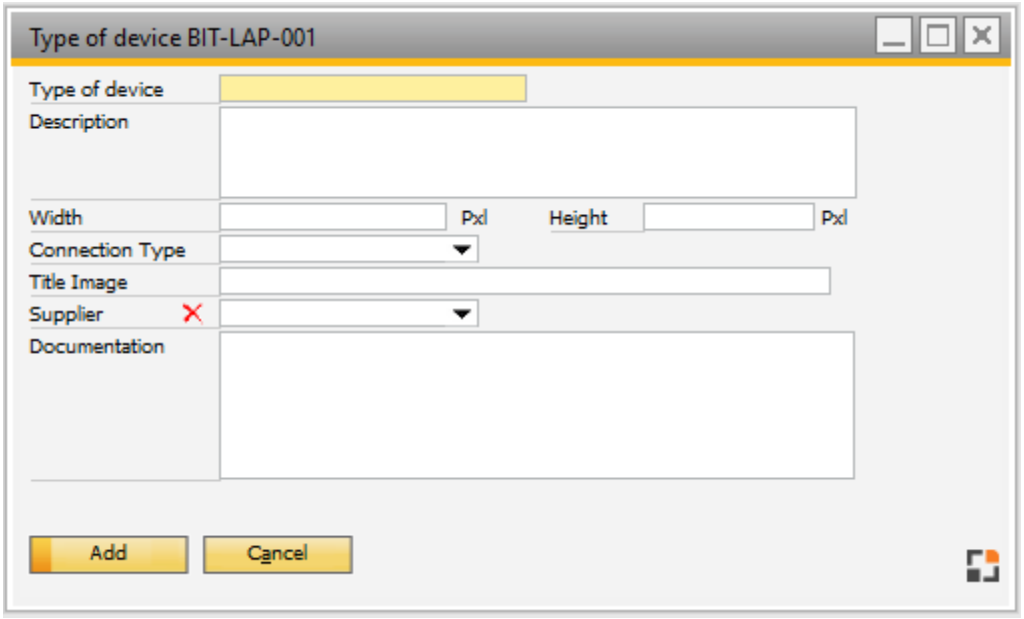
© 2026 Boyum IT Solutions A/S

User	Currently logged on user.
Windows user	User logged on in Windows.
Beas Version	installed Beas version.
DB server	Name of database server.
DB name	Name of the data base logged on.
Memory total	Total physical memory in MB.
Memory free	Available physical memory in MB. If less than 250 MB, secure operation cannot be guaranteed..
Computer name	Name of the computer.
c:\free GB	Free disk space c:\ If less than 5 GB, you should take action.

3.1.4.1.1 Device types

PATH: Administration > System initialization > Work station settings wizard >

1. Edit selected work station.
2. "Type of device field" > filter button.
3. Edit or add New device with buttons.



Window system_device_edit.psr

Field	Description
Device type	Device description.

© 2026 Boyum IT Solutions A/S

Description	Description.
Width	Display width (possible resolution) .
Height	Display height (possible resolution).
Connection type	Allowed connection type for this device (WEB or LAN).
Title Image	Assigned image.
Supplier	Select supplier.
Documentation	Free text for documentation.

3.1.4.1.2 Locations

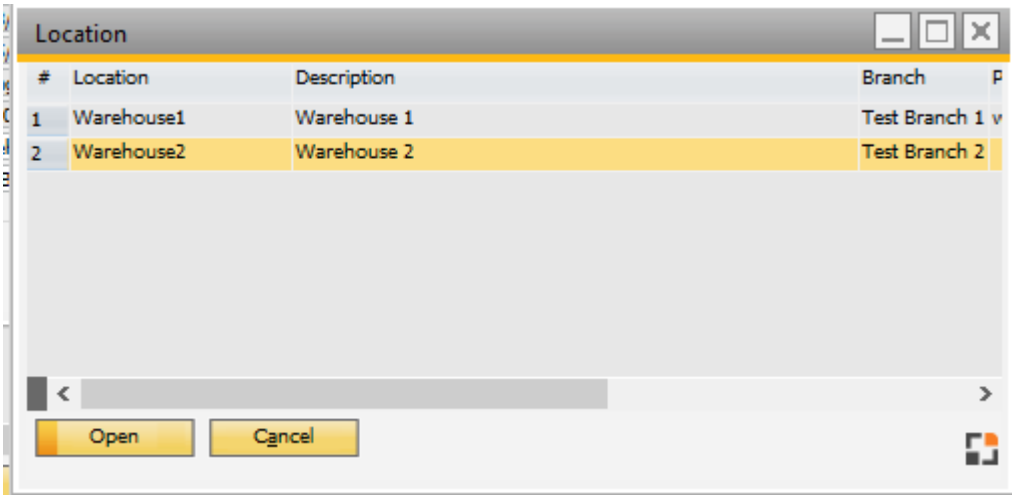
A location is a defined area in a factory.

A location can have own properties (UDF) and a defined printer.

PATH: Administration > System Initialization > Work Station Settings Wizard > "Location" field > open list with selection icon.

If you work with WebApps, you can connect to a location and use the printer defined for this location.

In this window you can manage all locations:



Window system_location_browse.psr

3.1.4.1.2.1 Location

A location is a defined area in a factory

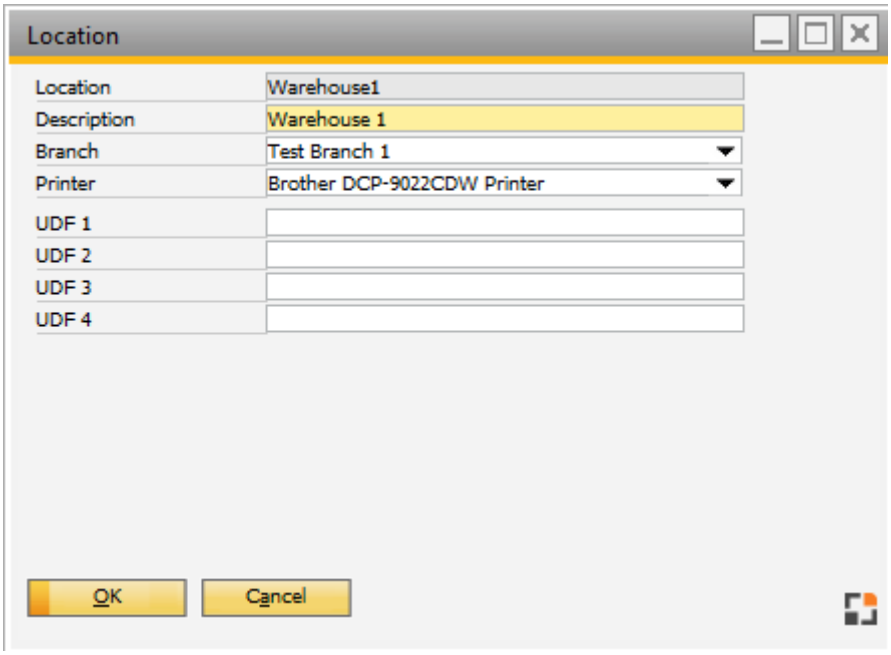
A location can have own properties (UDF) and a defined printer

PATH: Administration > System Initialization > Work Station Settings Wizard > "Location" field > double-click the yellow arrow

© 2026 Boyum IT Solutions A/S

If you work with WebApps, you can connect to a location and can use the printer defined for this location.

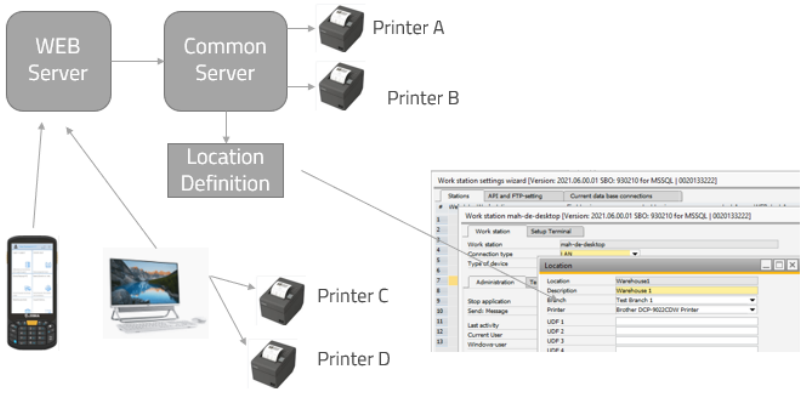
In this window you can manage a location.



Window system_location_edit.psr

Field	Description
Location	Location ID
Description	Description for this location
Branch	Location Branch
Printer	Printer for this location A WebApp sends a print request to the WEB Server and the WEB Server to the Common Server Service. The Web App is registered to a Location, which you can define in in this Station settings. In this field you can define the Printer Driver for the document on this location.

© 2026 Boyum IT Solutions A/S



However, it is not the client that prints the document. The Common Server Service prints the document, and the service can use only printer drivers available on this server in this service session.

If you click on the dropdown icon, Beas asks the Common service, which printers are available and displays all available printers for the service. Not all installed printers are always available in service mode. If a printer is not available, you can try to start the service in a local mode (service setup – use local account).

Note:

In WebApps it is always the Common service to print the document, not the local client.

If the Beas common service is not active, the system returns a warning message and displays local printer drivers.

udf1...udf4	You can define own values for a location. This values is active in the WEB sessions (only for customization).

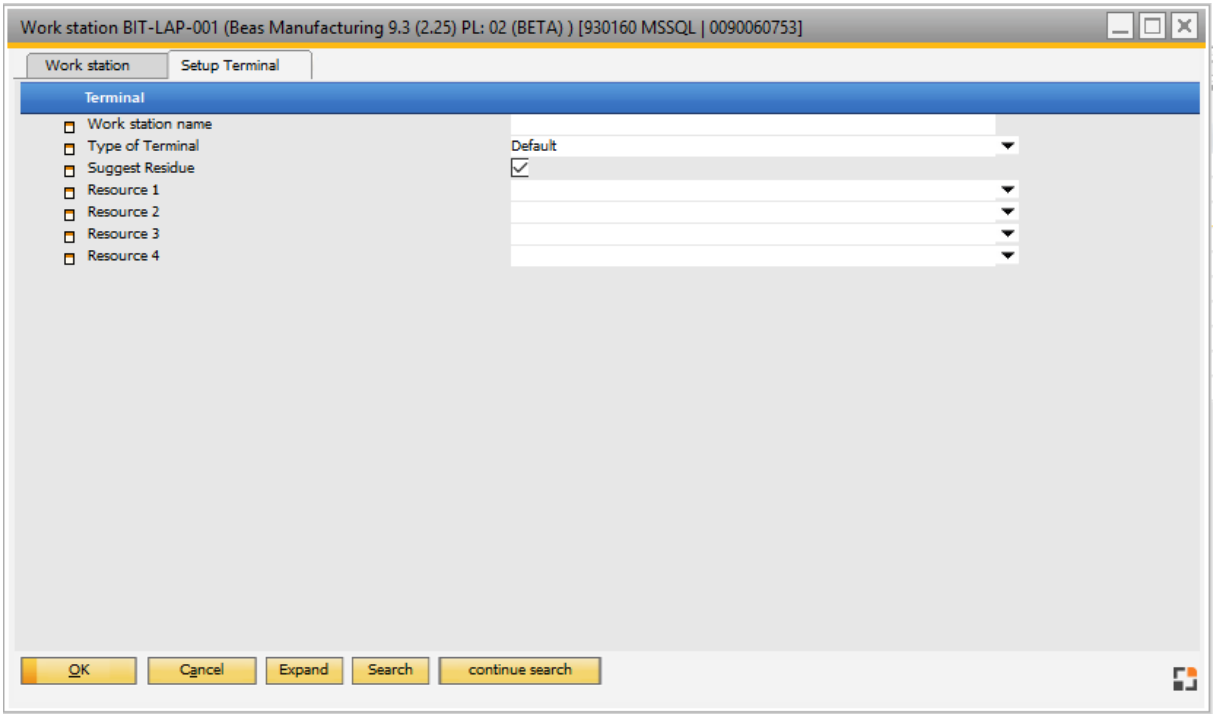
3.1.4.2 Set up Terminal

The setting for the appearance of the terminal application is entered here (Attendance – Login and Logoff).

PATH: Administration > System initialization > Work station settings wizard > click **Setup Terminal** button.

© 2026 Boyum IT Solutions A/S

Setup Terminal tab



Window system_ option_ struktur.psr

Field descriptions

Field	Description
Station name	Customized feature.
Terminal type	Default (customized feature).
Suggest residue	Suggest residue at time receipt?
Resource 1	Resources to be displayed in the pool list. If this first entry is not filled, the system only checks resources that were defined in Personnel > FDC. If there are no resources defined, the station can theoretically show all resources. If resources are defined, the station can show all of them. ***Examples:*** o Resource 1: A --> Only entries with resource "A" can be displayed.

© 2026 Boyum IT Solutions A/S

	o Resource 1: A% --> All entries that have a resource that starts with the letter "A" can be displayed. o Resource 1: A% Resource 2: B --> All entries are displayed that have a resource that starts with "A" and the resource "B". o Resource 1: A% Resource 2: % --> This displays all resources because Resource definition field 2 has the "%" which means all resources starting with anything.
Resource 2	"-"
Resource 3	"-"
Resource 4	"-"

to Terminal

See Pool report

back to Station settings wizard

3.1.5 Factory Calendar

PATH: Administration > System initialization > Factory calendar.

In this window you can define the main day planning. You can set:

- holidays

- availability in % for Machine resources and for FDC with graphical visualization

Beas uses this calendar for planning hours of machine resources and human resources

Machine Resources

```
Capacity of resource = hours / day of resource * count of resources * calendar day %
```

Human Resources (FDC)

```
Presence to be = count of hours (shift definition) from current day template *
calendar day %
```

After changing the calendar, the resource planning and human "present to be" time must be recalculated.

This takes place as an automatic process.

© 2026 Boyum IT Solutions A/S

See the following links:

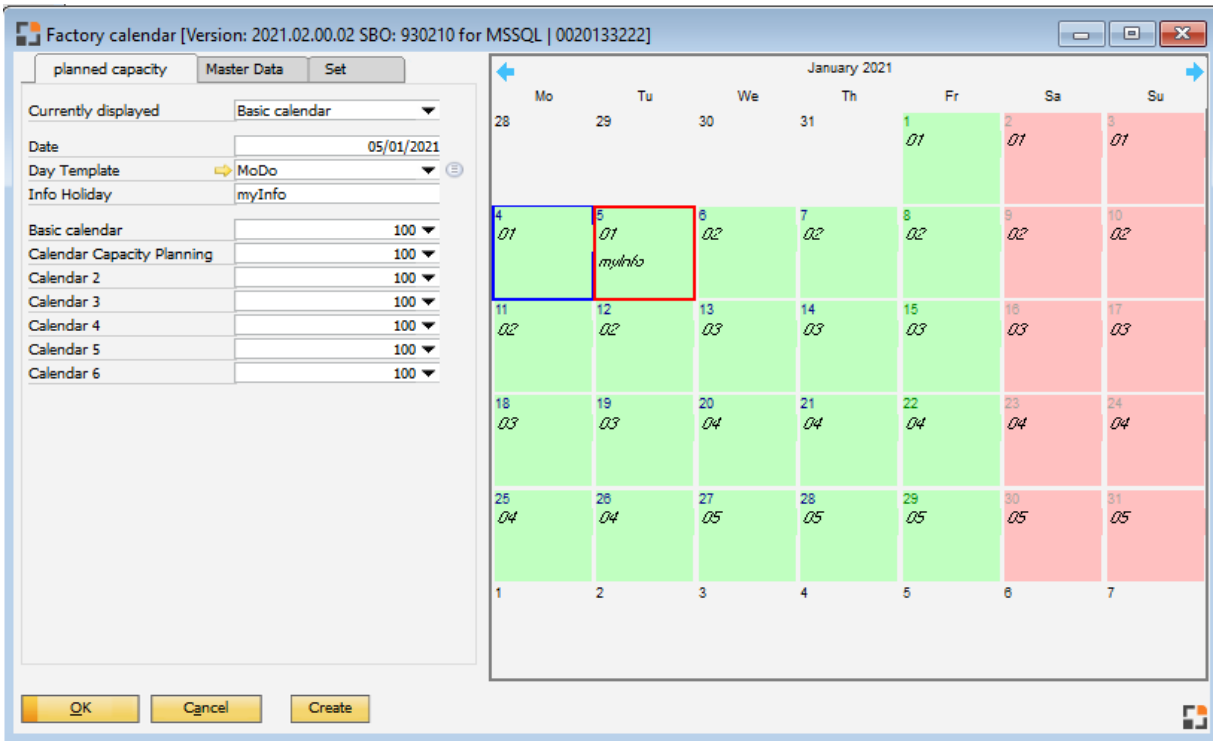
Calendar Creation

Day Template

Shift schedule for Resources

Attendance Recalculation

IMPORTANT: If the B1 UP Usability Package Add-On is installed, but you cannot see Beas Production or Beas Maintenance Calendars, restore calendars as described in B1 UP Usability Package Documentation.



Window bde_kalender_browse.psr

It is possible to define up to 6 calendars + a basic calendar.

Human shift planning uses only the basic calendar.

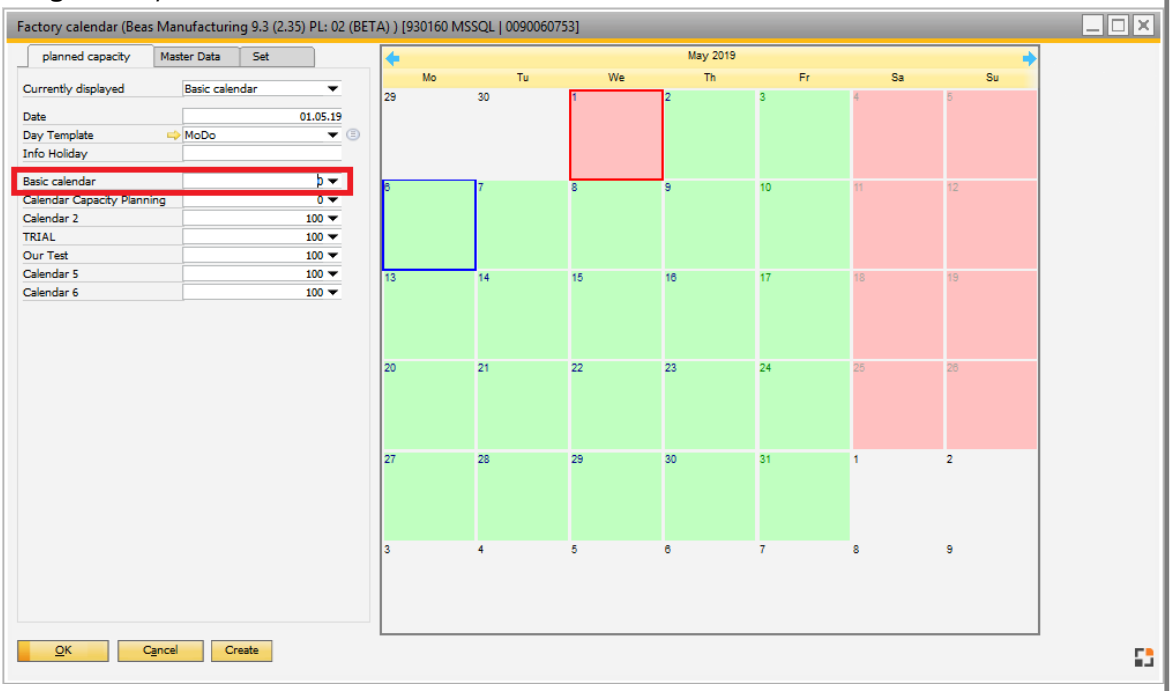
For resource planning it is possible to use the basic calendar or calendars 1–6.

Planned Capacity Tab

In this tab you can define which day template you want to use per calendar and date, whether it is a public holiday, and how much the capacity is on that date. For example, to define the 05.01.2019 as a public holiday in the basic calendar, use the following procedure:

© 2026 Boyum IT Solutions A/S

Select the basic calendar via the drop-down menu named "Currently displayed". If no work occurs on public holidays, select the capacity zero (0) for the basic calendar in the field Basic calendar. When changing the percentage in the capacity drop-down for the actual calendar, the OK button switches to "Update." Click Update and the new capacity will appear in red with 0% on the given day.



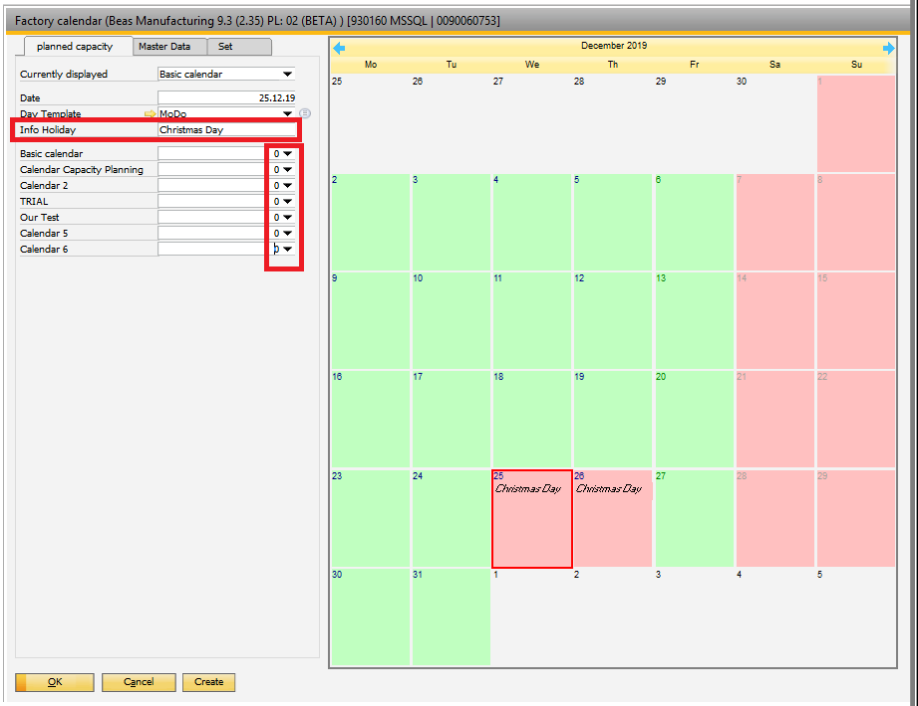
Window: bde_kalender_browse

Note:

Do not define a date area > 30 days without capacity. This creates error messages "calendar3" in different areas. ***See*** Message numbers.

Field	Description
Currently displayed	Define which calendar on right side is displayed.
Date	The current date you wish to choose.
Day Template	Define the Day template for this date. This is related to all calendars. ***See*** day template.
Info Holiday	Field used to describe the holiday defined. Related to all calendars. ***Example:*** to define 12.25.2019 and 12.26.2019 as public holidays, use the arrows in the calendar graphical view to select the month December. Click on the day to select the date, select "0%" in all calendars and enter the

© 2026 Boyum IT Solutions A/S

Field	Description
	name of holiday (Christmas day) in the "Info Holiday" field for each day. Click "Update" and the holiday info with capacity will be displayed for the given date.  **Setting half workdays for National holidays:** In certain countries, 24th December and/or 31st December are counted as "half" workdays. For this, set 50% in the Basic calendar which will result in half day. Note: Beas does not display the correct number of workdays/holidays in **Personnel XXX > Absence** as regardless of the percent factor, the half workday is still counted as one workday. To see the correct results broken down to working hours, go to **Personnel XXX > Attendance** and click the "Time Evaluation" button, which displays a report on the number of working hours per day according to the % factor you defined in the Factory calendar.
Basic Calendar	Field used to define the percentage of work to be carried out on this day.
Calendar 1-6	Define percentage of work to be carried out on this day for calendars 1-6. In Tab "Master Data" it is possible to rename the name of calendars 1-6.

© 2026 Boyum IT Solutions A/S

Set Tab

In this tab, Beas allows to edit the capacity defined per day for the calendars for a period of time, except the basic calendar.

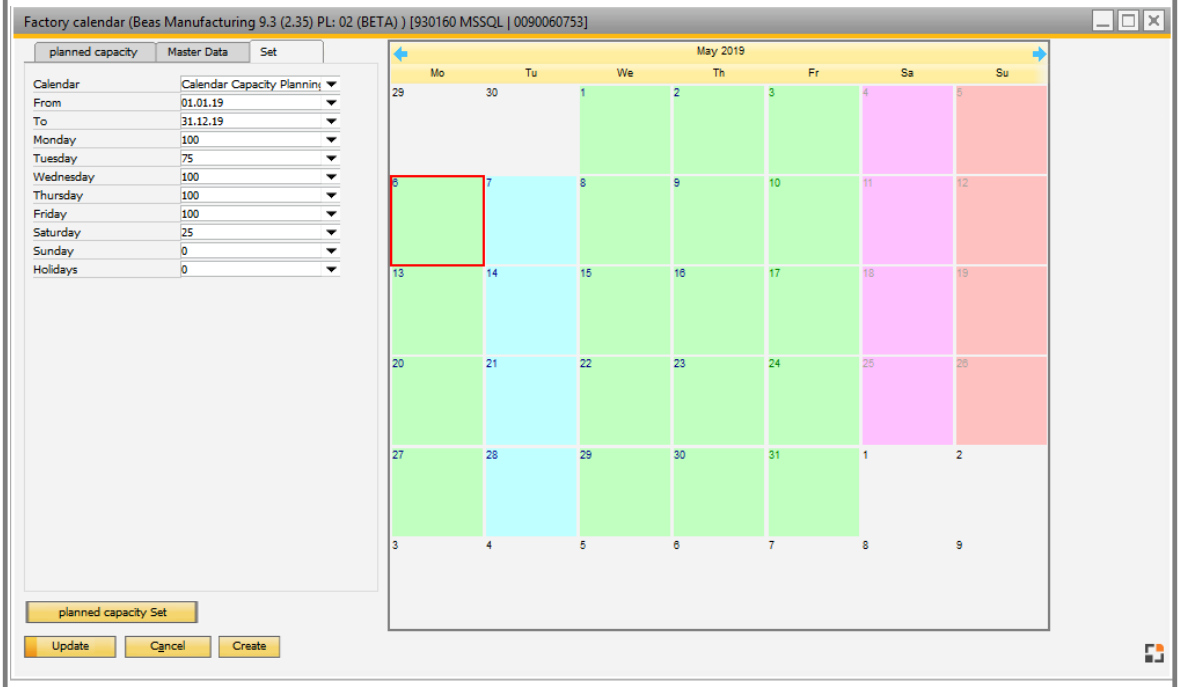
Field	Description
Calendar	Define which calendar on right side is displayed.
From	Field used to define the start date of the new capacity in the selected calendar.
To	Field used to define the end date of the new capacity in the selected calendar.
Monday–Sunday	You can select the capacity of each working day in %.
Holidays	You can select the % capacity of each holiday you have defined.

Example:

From the date 01.01.2019 to date 31.12.2019 in Calendar "Capacity Planning" (that is Calendar 1), a new capacity has been defined. For this period the capacity will be 75% on Tuesdays. As for Saturdays, the percentage will be 25%. On the calendar graphical view, Tuesdays will now change from green to light blue and Sundays from green to purple due to the new capacity.

Planned capacity set: Button used to set the new capacity defined for the period of time. Once clicked, the new capacities are indicated graphically in the calendar with the different colors.

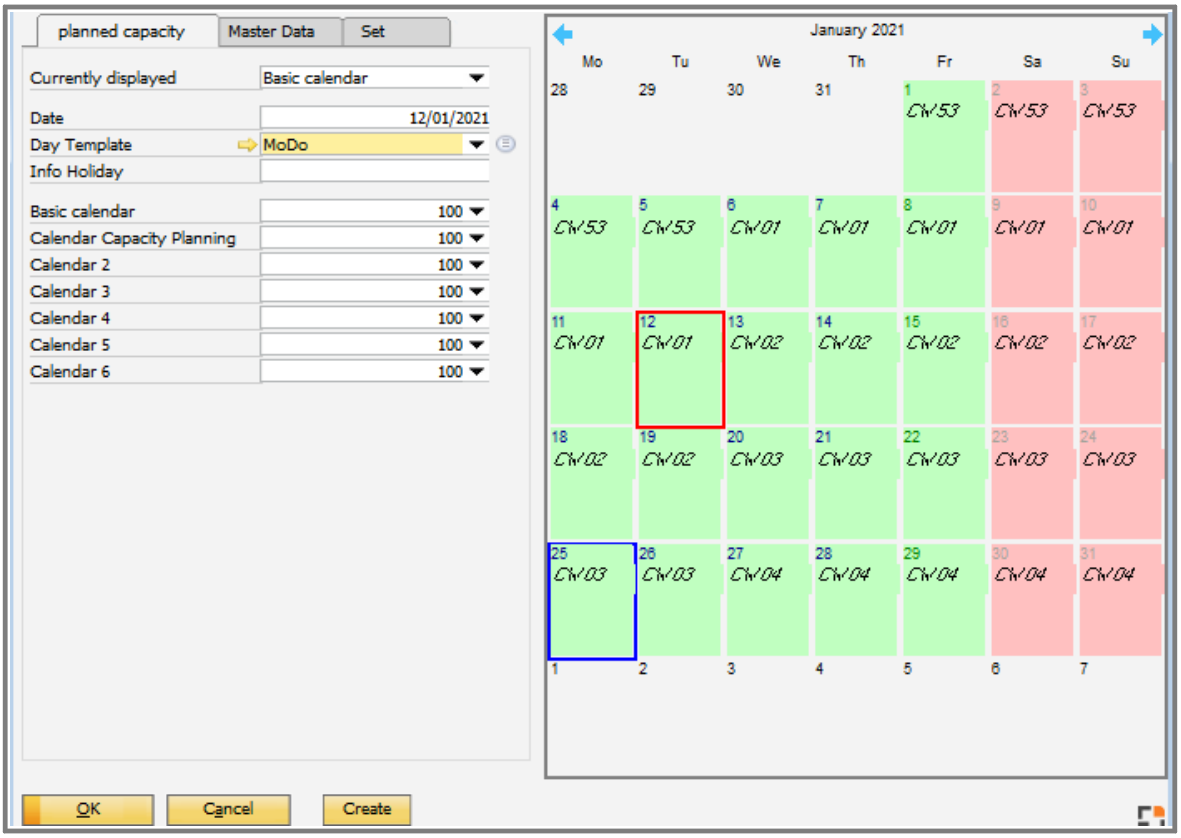
© 2026 Boyum IT Solutions A/S



Window: bde_kalender_browse

To check the calendar week, the factory calendar displays the calendar weeks in the calendar, example "CW 01" for Calendar week 1:

© 2026 Boyum IT Solutions A/S



3.1.5.1 Calendar Creation

In this window it is possible to create a new calendar .

PATH: Administration > System initialization > Factory calendar > "Create".

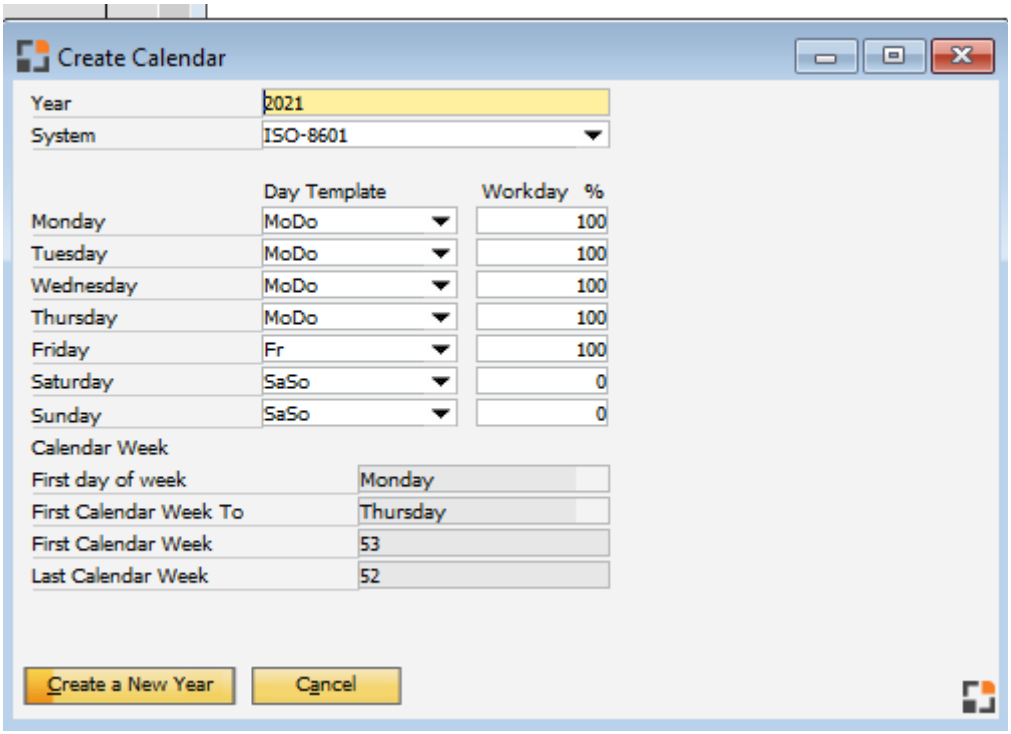
How to create a new calendar for a year:

- if the calendar does not exist, Beas opens this window automatically.
- factory calendar - button "new".

To make certain that calendar weeks are counted correctly, enter the first day of the first calendar week of the year.

The holidays are automatically calculated in German language areas and can be selected or deselected. If the year already exists, and the user tries to create it again, Beas overwrites the existing one. For all other countries you must create the holiday entries manually in factory calendar.

© 2026 Boyum IT Solutions A/S



Window bde_kalender_neu.psr

Field	Description
Year	Create calendar for this year
System	Define the used Calendar system

first day of week	First day to	Used by or in
Monday	Thursday	EU and most other European countries, most of Asia and Oceania. Click for more information.

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>first day of week</th><th>First day to</th><th>Used by or in</th></tr><tr><td>Saturday</td><td>Friday</td><td>Much of the Middle East</td></tr><tr><td>Sunday</td><td>Saturday</td><td>Canada, United States, Japan, Taiwan, Thailand, Hong Kong, Macau, Israel, Egypt, South Africa, the Philippines, and most of Latin America</td></tr></table>

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>first day of week</th><th>First day to</th><th>Used by or in</th></tr><tr><td></td><td></td><td></td></tr><tr><td>-</td><td>-</td><td>You can modify all settings.</td></tr></table>
Day Template	Use this day template for this day. ***See*** Daily Schedule
Workday %	Field used to define the percentage of work to be carried out on this day.
First day of week	Define the first day of week related to system setting For ISO-8601 the first day of week is Monday. ***See*** setting "System". If System is defined as Custom, it is possible to choose the first day of the week.
Calendar week to	Define the last weekday which can contain the first week of the year. If later, the week is part of last year (example 53 or 54) The system calculates this automatically related to the defined System (***Example*** ISO-8601 = Thursday). If system is set to "Custom", you can overwrite it.
First Calendar Week	Define the Week Number for 1 January of the year. This is always calculated automatically. If system is set to "Custom", you can overwrite it.
Last Calendar Week	Define the Week Number for last week of the year. This is always calculated automatically .

© 2026 Boyum IT Solutions A/S

Field	Description
	If system is set to "Custom", you can overwrite it.

back to Factory calendar

3.1.6 Report setup

The Beas Report system is highly integrated into SAP Business One. The module offers a wealth of functions which can even be used in each additionally installed add-on. The functions of the Beas Report system are superimposed on the SAP Business One default function. These can also be deactivated window- and even report-specifically if the function is not required. All documents can be printed or sent directly by fax / email.

PATH: Administration > System Initialization > Report Setup.

In "Beas Reports" you can set up standard reports, filters, translations and text components.

Available tabs:

Standard reports

Own Reports

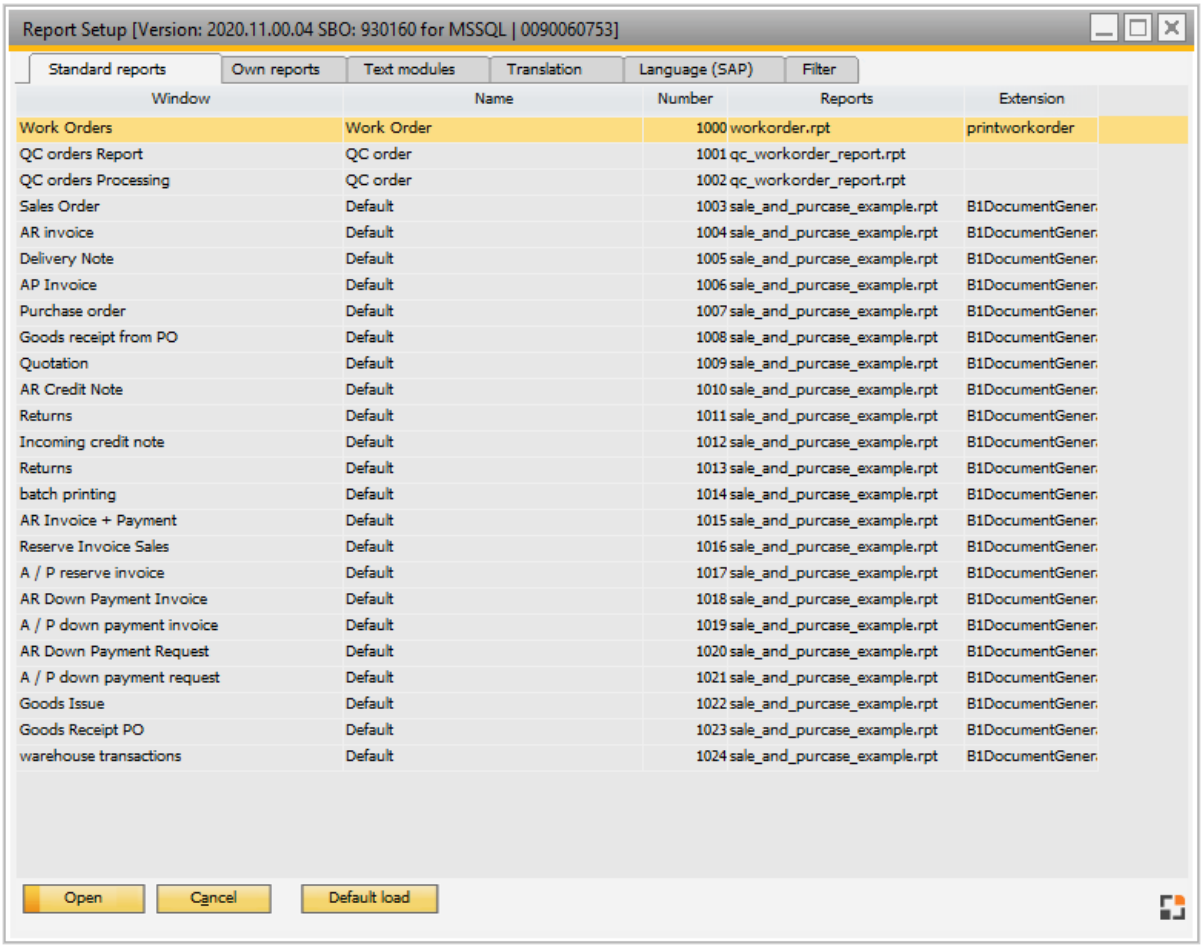
Text components

Translation (Report)

Languages (SAP)

Filter

© 2026 Boyum IT Solutions A/S



Window report_makro_standardbrowse.psr

Beas translation system

Note: SAP Business One Functions **Administration > User defaults** and **Print preferences** are not supported.

See

Macros

SAP Document Print solution

Crystal

3.1.6.1 Standard reports

PATH: Administration > System Initialization > Report Setup.

Manage standard reports here. System reports and default reports are displayed in a list.

At program update the system reports are updated automatically, but not the default reports.

© 2026 Boyum IT Solutions A/S

Use the **Default load** button to update report settings.

back to Report settings

see SAP Document Print solution

3.1.6.2 Own reports

The list displays all reports which have been stored in the program or in windows. The reports are editable here.

PATH: Administration > System Initialization > Report Setup.

Report settings

SAP Document Print solution

3.1.6.3 Text Modules

You can define text components for reports and e-mails.

PATH: Administration > System Initialization > Report Setup.

Text module	ID for text module
Language	Select language.
Type	Use for which document type (e.g. "Email" for Email).
Subject	Only for Email: subject line Placeholders can be used – ***see*** below. for ***Example***: FAO: <source_header.contactname>.

Functions

New	Create new entry.
Delete	Delete entry.
Edit	Edit email text. An editor opens, where placeholders can be used.

Placeholders

Placeholders can be inserted to texts, e.g. today's date: <today,yyyy/mm/dd>

When working with b1documentgenarte-API additional placeholders are available:

© 2026 Boyum IT Solutions A/S

Available data stores:

source_header	Header of document. All fields, e. g. ORDR for order. Attention: When previewing (as soon as this function is available) not all fields are filled.
source_line	Document-Lines all Fields, example Order all Fields e.c. from rdr1 or inv1
document_header	All fields from beas_document_header
document_line	All fields from beas_document_header
companyinfo	Special fields from oadm (Company): syscurrncy,maincurncy,compnyname,compnyaddr,printheadr,phone1,phone2,fax,e_mail,freezoneno,taxidnum,revoffice,cmpnyaddrf,printhdrf,phone1f,phone2f,faxf,manager,managerf,taxidnum2,taxidnum3
contactadr	All fields from OCPR (contact person)
owneradr	Special fields from Personal (ohem): firstname,middlename,lastname,jobtitle,position,dept,branch,office tel,mobile,pager,fax,email
invoiceadr	invoice address cardcode,cardname,address2,address3,street,block,zipcode,city,state,country,countryname,phone1,fax,email
shipadr	shipping address. All fields from OCRD
payment	all Fields from Payment OCTG
Discount	Discount-Table ocdc: code and tabledesc

***Examples*:**

<source_header.contactname>	Customer contact person
<source_header.cardname>	Name of customer

For an overview of all fields, ***see*** APIs - b1documentgenerate

Beas translation system

back to macro definition

Report settings

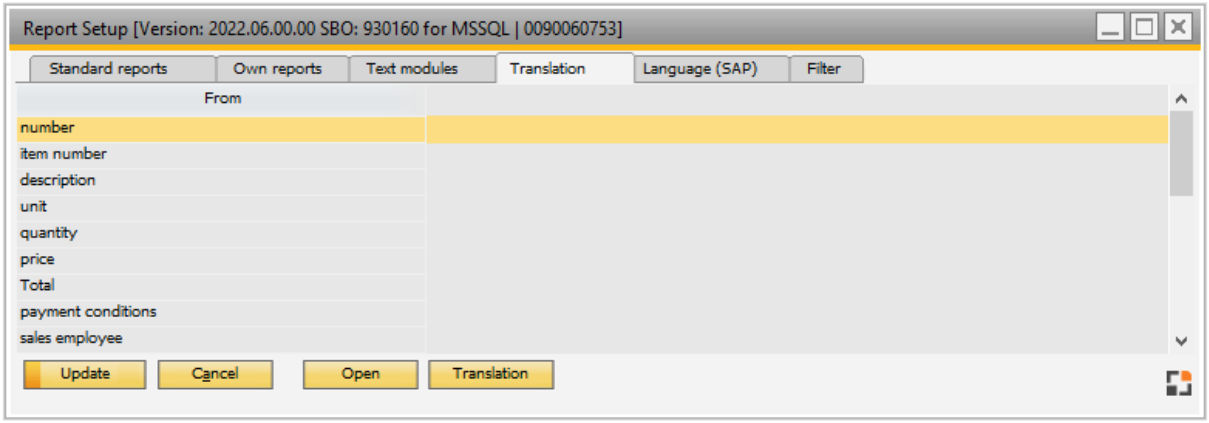
3.1.6.4 Translation (Report)

Here you can define translation tables for reports – for example, to create a Crystal report in another language. This table in considered in all multi-language documents.

NOTE: This works only with the "old crystal viewer". ***See*** Configuration wizard.

© 2026 Boyum IT Solutions A/S

PATH: Administration > System Initialization > Report Setup.



Window report_language_browse.psr

Translations are saved in the project folder in the file "reporttranslate.ini".
If you change this file without using a shared project folder, make sure the changes are distributed.

Button/Function	Meaning
Update	Save translation table in project folder to file reporttranslate.ini.
Add	Enter new word.
Remove	Delete word, including all translations.
Open	Edit word entry query.
Translation	Edit translation .

Beas translation system

See

Translation concept

Report settings

SAP Document Print solution

3.1.6.5 Languages (SAP)

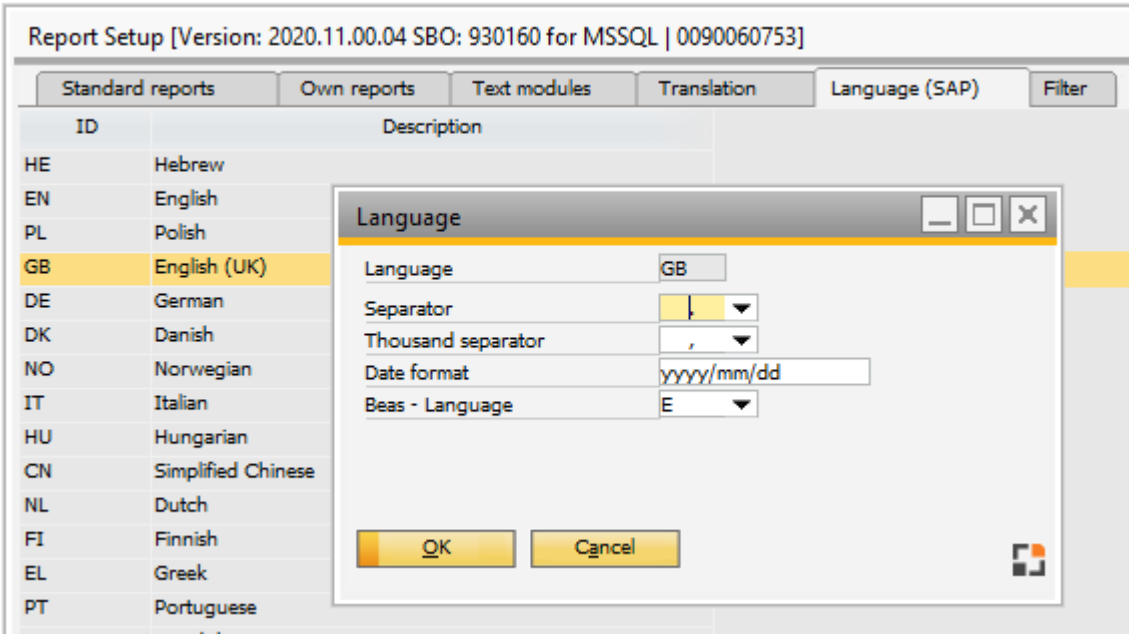
PATH: Administration > System Initialization > Report Setup.

List of all languages defined in SAP Business One under Languages.

This window is for Crystal report printing for SAP Documents

Describe the Number Separator, Date format and related Beas Language file for printing documents in another language as current User front end.

© 2026 Boyum IT Solutions A/S



Window system_sprachen_erweiterung.psr

See

Languages – Extended.

SAP Document Print solution

back to Report settings

3.1.6.6 Filter

PATH: Administration > System Initialization > Report Setup.

The Beas report system is active by default in all windows and overrides the SAP-Standard solution and maybe also other Add-ons.

If the SAP window number (Form ID, e.g. 139 for sales order) is inserted, the Beas – Macro system is turned off completely for this window.

See Macros

back to Report settings

© 2026 Boyum IT Solutions A/S

3.1.6.7 Macros

Beas works with macros. A macro can print, fax, display or edit a report, analysis or marketing document.

A macro can

- Prepare data for a report

- **Use different form systems to prepare the report, e.g.:**
  - Crystal
  - Powerbuilder
  - Infomaker
  - Proprietary generator by SQL query
  - MS Excel, PDF, RTF, WMF, XLS, HTML and other converters
- **Reuse the form in any way, e.g.:**
  - Display
  - Mail
  - Fax
  - Print
  - Export

- Perform batch functions

- Create multiple reports in succession
- Forward a document automatically in another way

- Analyze conditions

- Depending on the station, customer, user, right, call type and much more
- Control the output or call

- Control the printout:

- Tray
- Printer
- Printer driver
- breaking down
- Multiplex
- Paper type
- And much more, depending on the station, customer, user, right, call type, etc.

Any number of macros can be stored in each SAP and Beas window. Each macro is window-specific. If a macro is required in multiple windows, there are two options:

© 2026 Boyum IT Solutions A/S

1. Store the macro separately in each window for the report call.
2. Each program range has a "List" function, e.g. Production list.
All relevant Beas windows in turn have the "List" function, which can be used to call the range list window.
Macros required by multiple windows can now be stored behind these range list windows.

1. Store the macro separately in each window for the report call.
2. Each program range has a "List" function, e.g. Production list.
All relevant Beas windows in turn have the "List" function, which can be used to call the range list window.
Macros required by multiple windows can now be stored with these range list windows.

Macros can be distributed via clipboard using the copy&paste function. ***See*** Data selection copy&paste.

See

Macro definition
Crystal support
Translation
API's
Date and time format

- Supported output formats

Note: An output of Beas windows into PDF format is currently not possible.

Documents, reports, etc. can be output in a variety of formats in Beas. see the following table for more details:

	Beas form	SAP form	Crystal
Acrobat/PDF	It is not yet possible to export to PDF format.	In this case, the SAP standard system is used.	Output in PDF format.
Excel	If a Beas form is exported to MS Excel, the view itself is	Formatting is also performed here.	The Excel default is used.

© 2026 Boyum IT Solutions A/S

	exported formatted to MS Excel, not the data. Only images are not transferred.		
Word	It was not previously possible to export to MS Word format.	In this case, the SAP standard system is used.	The output is exported to RTF format.

- Disable globally

To deactivate the Beas print function generally in the SAP marketing functions:

Administration > System Initialization > Configuration Wizard > Print and report setup > Printing Crystal reports

Simply deselect the tick box "Print B1 documents with Crystal".

Then all printing is performed in all SAP marketing windows using the SAP default or the other installed add-ons.

- Macro – Deactivate directly in an SAP window.

To suppress an element in a specific SAP window:

1. Click on the layout symbol
2. Click the **Deactivate** button

As of now, instead of using the print solution for this window, the default SAP solution or the solution of other add-ons is used.
The deactivated windows are managed under Report settings – Filter

To re-activate the macro for a window, delete the window ID Report settings – Filter.

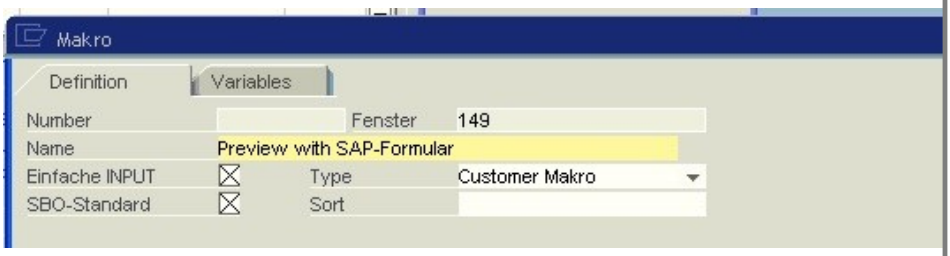
- Macro for SAP Standard

A macro entry can be created for using the SAP default.
If this macro is selected, the default SAP functionality is used.

Example of use:

© 2026 Boyum IT Solutions A/S

Using the Beas report system, it is not (yet) possible to create a preview – unless this is created from a parked document.
To display a preview quickly, you can also use the default SAP form.
To do this, create a new macro and activate SAP Business One Default.



- Assign a macro to several windows

If a macro is needed in more than one window, there are 2 possibilities:

1. Store the macro in every window separately
2. Every program area has a functional list, e.g. work order list. All relevant windows have the function "Lists" to call up the area list window.
   In these windows macros for multiple windows can be stored.

- Start macro automatically (SAP document)

In SAP documents are not printed automatically. If you need this, create a script.

Example for sales order – email via standard report.

```
windowevent update
if <eventtype> = add then
   printobject=makrostart=email==1003
end if
end event
```

See YouTube / Video

beas 9.1 PL: 08

See Macro definition

Crystal

© 2026 Boyum IT Solutions A/S

3.1.6.7.1 Macro Definition

This chapter describes how to set up a macro. The function is accessible via **right-click >** click the second tab **"printer",** then click the icon **"Layout" .**

In the Report selection window (e.g. Reports – master data): Right-click > Window settings.

In the main window all macros assigned to the current window are displayed. Select one to edit or to create new reports.

see also:
Macro structure
Create Macro

3.1.6.7.1.1 Macro Structure

A macro is structured as follows:

1. Data preparation	Does data have to be prepared, e.g. for sales and purchasing forms or demand lists? Should queries be presented first?
2. Macro Step	Specifications for report creation? With which system (Crystal, Infomaker, current form, SQL query)?
3. Macro Output	How should the report be output? Email, fax, printer, Excel, PDF, etc.
4. Print output	For output by printer: How should the output be executed? Which tray, which printer, which print options?

Any number of sub-entries of the sub-level in question can be added for each level. If an option is not specified, a default setting is used.

Note: If no output form is defined, the output form for starting the macro is used.

Example:
Click on the magnifying glass to use "Preview" as the output form.

© 2026 Boyum IT Solutions A/S

3.1.6.7.1.2 Macro

In this window the Macro is defined. Select one and click Edit.
For further information ***see*** Macro structure.

Field	Description
Number	Number of Macro. When creating a macro, a number can be entered manually. You can define number ranges. Allowed range: 100.000 – 99.999.999 If no number is entered, the next free number is used.
Window	Window title (psr-file) in which the Macro is executed. Filled automatically.
Name	Macro name. A unique name is to be entered (mandatory field). The entered text is not translated into the user's language. Click the script icon displayed left of the entry field to open the script editor. There you can define which report to be used by defining a script. Use the variable "value". ***Example:*** `setvar=value=Report Name from Script` If a script is stored, the icon is displayed in red. The script is executed at call up of a pre-view / print function or via menu entries "Master data report", "Production report".
Simple entry	Disabled: in case of Crystal Reports. This can be selected directly. Enter only variables (***see*** Variables). Enabled: Different types of output can be defined. ***see***: macro structure, Output formats.

© 2026 Boyum IT Solutions A/S

Type	**System macro**: Updated automatically with each Beas update. Please do not change it. **Standard macro**: Standard report which is imported at initial installation or selecting **Report administration - Reset standard**. Changes are allowed. **Customer macro**: Customized macro that can be changed. Default setting.
Sorting	Determines the order of display.
Macro selectable with	Determines, at which action (with which application) the macro may be selected: view, print, Fax, E-mail, PDF, Excel, Word.
Authorization	Select authorization.
Business partner	Select business partner. Report available only if the business partner is active. This works only for SAP Business One sales and purchase documents.
Stations	Select stations where the macro is available.
User	Select authorized users for this macro.

Script	Store a script to control the visibility of the document.
	Ending the script with "return failure" makes the report invisible.
	
	The script is called up in the parent window that is from the window in which the printing is started. If this is done from the menu, the script is called up in the reports list.
	As the script is already edited, you cannot use < and >. Use replacement characters { and }.
	
	Example: Only user "manager" is allowed to print the report
	`if {currentuser} = manager then`
	`  return success`
	`end if`
	`return failure`

Module	Enter the name of a registered module.
Start before extension: API	Functions to be executed in advance: e.g. process data in temporary tables. Which API's are available depend on the actual window. ***See*** API
Set print sign	**Print:** The printing ID is set only for direct printing, not for preview. **Always**: Also, the printing ID is set in work order for preview.

© 2026 Boyum IT Solutions A/S

Print planned order	**No**: Work order of the "planned" type cannot be printed even if marked (default setting). **Yes**: Planned work orders can be printed, as well.

Tabs

Field	Description
Definition	Defines the macro and the pre-generating function (this window).
Variables	Defines variables to be set up or queried in advance.
Macro step	Defines the sequence of a macro.
Scripts	Scripts can be stored which are executed before or after the macro is called. Loop statements are also possible.

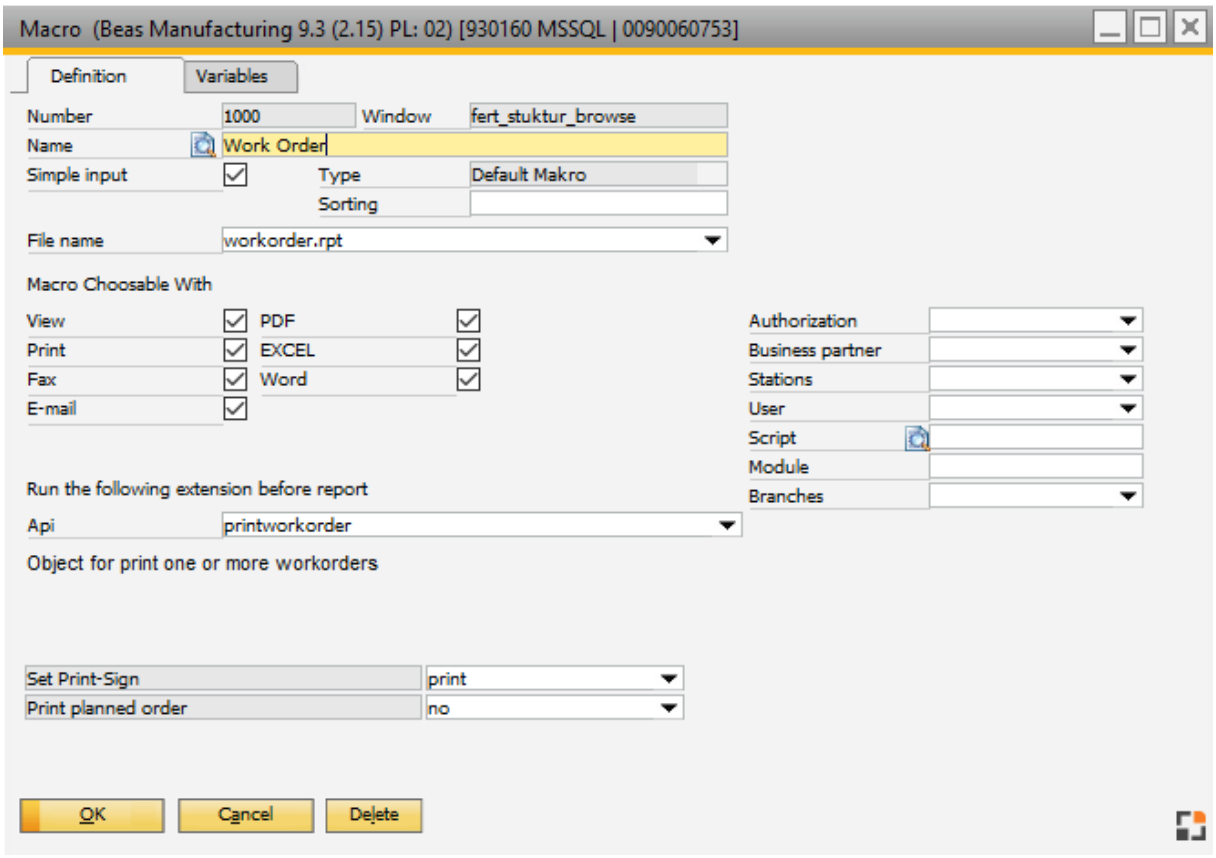
3.1.6.7.1.3 Report Name

A name must be defined for the macro at the start. To do this, the window for which the macro should be stored is opened. Next, you can open the macro editor by using the pencil icon.

see also: "Macro Structure"

Create a new macro by clicking **Add**. The following window opens:

© 2026 Boyum IT Solutions A/S



Window report_makro_edit_page1.psr

Only the following entries are required to define a simple macro:

1. Name
2. File Name
3. API call, if applicable

Field	Description
Number	Number is assigned automatically.
Window	Number or name of the window to which the macro belongs
Name	Name of the macro
Easy input	Simplified input is active if this option is activated. If this is deactivated, the "Process" tab is displayed and "File name" is hidden. The creation of the report is then defined in the "Process" tab.
SBO default	If this option is activated, the default SAP report is called when a macro is selected.

© 2026 Boyum IT Solutions A/S

Sort	Determines the order when selecting the macro.
File Name	Only active for "Simple Input": The Crystal Report to be printed can be selected here. Note: Beas use SAP Crystal Reports. But this Product is not part of Beas.
Macro selection is available for	Activates a filter here that defines the condition under which the macro is available, e.g. only on faxing, only for emails or only for the preview, etc.
Authorization	Configures which Beas right is required to call this report.
Business partners	Configures whether the macro is only available for a specific business partner. Any number of business partners can be selected. Business partner-related forms can be created in this way.
Resource	Configures the PCs on which the macro may be called.
User	Configure the users that may run the macro.
Script	Any Beas script can be stored here. Any filter can be scripted using this.
Module	Configures which Beas module must be activated so that macro can be printed.
API	A data pre-generation function. For example, before printing "B1DocumentGenerate" generates the contents of beas_document_header and beas_document_line which a Crystal form can then access.
Text Components	Here you can save up to 5 text components which are stored for printing marketing documents. Text components can be stored in any number of languages. Beas locates the text components.

Available tabs:

Name	Description
Definition	Defines the macro and the pre-generation function.
Variables	Defines the variables that should be set or queried in advance.
Process	Defines the process of a macro. The macro steps are stored here.
Scripts	Stores scripts that are executed before or after the macro call. A loop instruction can also be stored.

© 2026 Boyum IT Solutions A/S

3.1.6.7.1.4 Macro Step

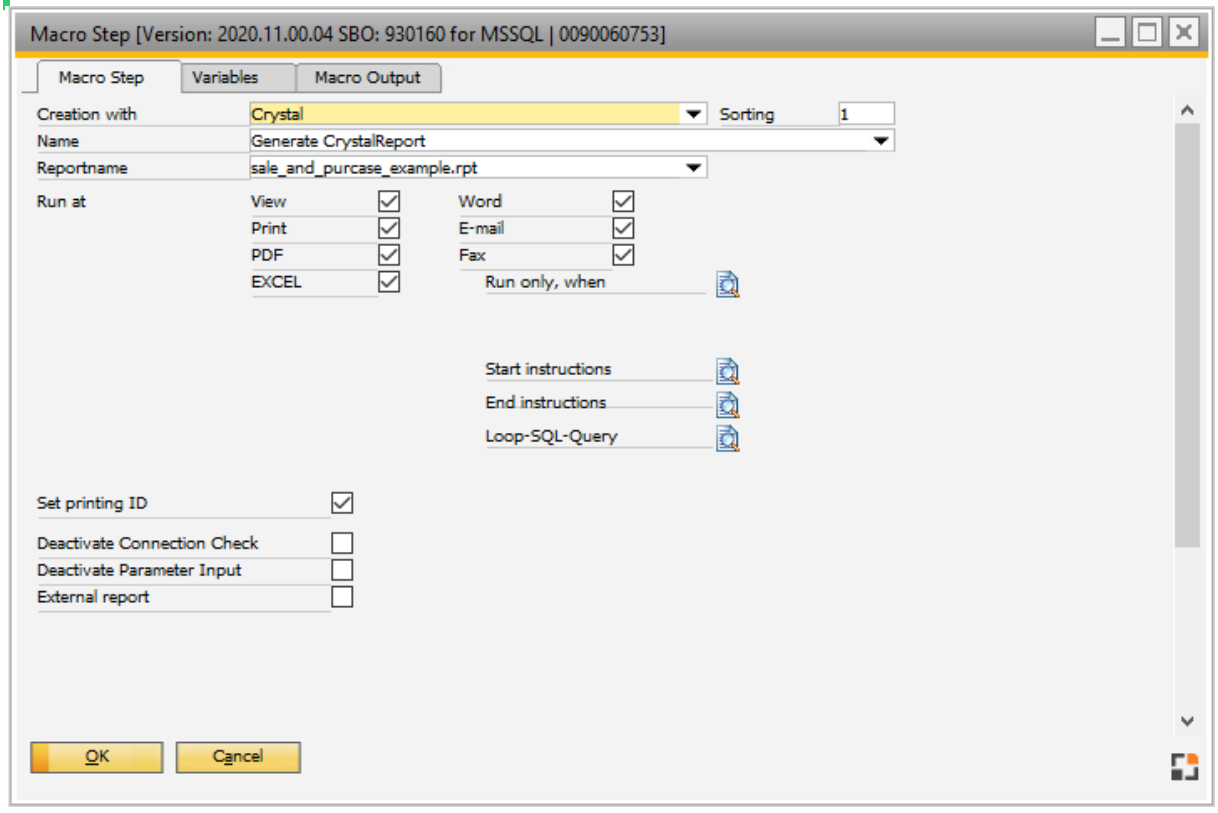
Any number of macro steps can be stored per macro. A macro step determines which system is used to create a form and whether anything should be created at all.

The following is a rough outline of what happens in a macro step:

1. Execute start script
2. Query or define variables
3. Generate form
4. Execute macro output
5. Execute End script

It is also possible to integrate loops. The visible input fields depend on the generation function.

PATH: Administration > System Initialization > Report Setup > **Open** a report > "Macro Step" tab > **Open** a macro step.



Window report_makrostep_edit_page1.psr

General fields:

© 2026 Boyum IT Solutions A/S

Name	Description
Creation with	The system to be used to create the report can be specified here. Beas use the SAP Crystal engine for displaying reports. Note: SAP Crystal report is not a product of Beas.
Name	Name of the macro step
Run at	Here you configure the condition under which the macro step should be run, e.g. only run if it was started via View. A script named "Run only if" can be stored for this purpose. If this script returns "return failure", this step is not executed. The filter function must not be confused with the creation function. This allows you e.g. to print by clicking on “Email”, or create an email on printing. **Limitation of PDF printing:** "Microsoft PDF Printer" is not supported. Install a different PDF printer to use.
Start instructions	Beas script which is executed before the report is created.
End instruction	Beas script which is executed after the report is created.
Loop SQL-Query	Loop function (see example below)
Set print ID	(Marketing window only): Print ID is set.

Creation with

A report can be created in the following ways

Name	Description
Crystal	The report was created with Crystal. The form is available as an RPT file.
Beas form	The report was created with Infomaker or Powerbuilder and saved as a beas form (PSR file). **Important:** If the macro variables should be passed in the call of the base form, they must begin with "var_".
SQL Query	An SQL instruction was stored.
Current window	The current window is used.
No Creation	No form is created – e.g. for re-use of existing files.

Additional inputs for Crystal

© 2026 Boyum IT Solutions A/S

Name	Description
File Name	File name of the form (RPT) File has to be located in one of the following folders: **c:\program files (x86)\beas software\beas\program** **c:\program files (x86)\beas software\beas\program\report** **[project folder]** **[project folder]\report** Alternatively, you can set up the file name in macro step, by setting the variable makro_filename *(beas 9.1 PL: 08)* ***Example:*** `setvar=makro_filename=my_own_report.rpt` **Note:** Beas uses Crystal 11 Viewer. Only object types managed with Crystal 11 viewer can be viewed.
Deactivate Connection Check	A Crystal document is defined for a specific database or connection. Beas breaks the connections stored there and links the form to the current database. If you do not want this (e.g. because a result is expected from a process), you can deactivate this setting here. **Note:** This setting is only available in MSSQL.
Deactivate Parameter Input	Beas retains the Crystal parameter input and provides multilingual, user-friendly parameter input. However, if you want to work with the Crystal parameter input, the Beas function can be deactivated here.
External Report	If this option is activated, all Beas influences are deactivated, e.g. translation, formula breakdown, etc.

Additional inputs for SQL query

Name	Description
SQL Query	SQL instruction from which a report is created.

Tab

© 2026 Boyum IT Solutions A/S

Name	Description
Macro Step	Defines the macro step.
Variables	Defines the variables and parameters.
Macro Output	Defines the output steps.
Scripts	Defines scripts for Macro start, SQL query for Loop and Macro end. Click on the yellow arrow to open the beasgui script editor. **IMPORTANT:** The symbol # can cause errors when placed in the beginning of macro script definitions (e.g. macro start/stop). Users are advised to avoid using this symbol in the beginning of a script. *Window report_makro_edit_scripts.psr*

Example: use loop function in macro step:

If you want to call up a report several times with a macro and change the content of a report variable automatically (e.g. continuous number, work order position etc.) proceed as follows

Store BeasScripts in macro steps "Start statements" and "Loop-SQL-Query" :

Start statement:

```
global function reportscript_step_preinloop
  // set report variable 'pos' with the result of the Loop-SQL Statement
  printobject=setvar=pos=<e_number>
end global
```

Loop-SQL-Query:

```
select column as number from table where .....
```

How it works:
The SQL-statement loads the desired values from the data base and writes them into the variable "Number" (internally extended with "e_"). Then, the value is transferred to the report.

© 2026 Boyum IT Solutions A/S

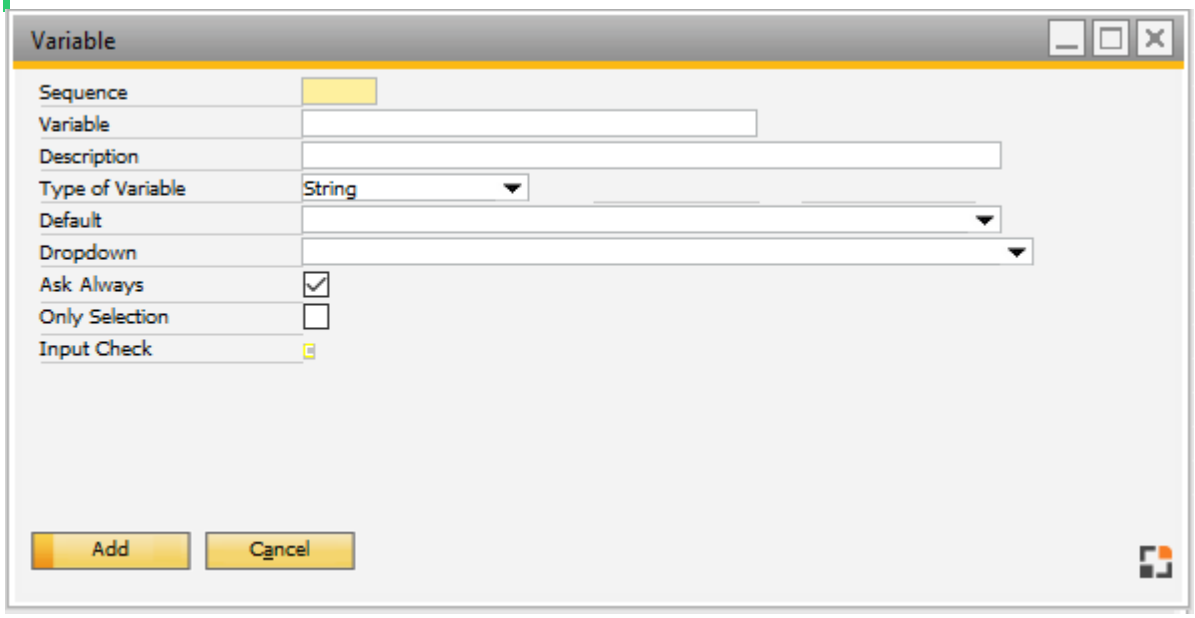
The individual reports, analyzes, and forms have very different parameters. These can be defined on the "Variables" tab.

Button	Meaning
Open	Open the window to edit a selected variable (***see*** below).
New	Create a new variable.
Test	Open query window to check queried variables.
Determine	The necessary parameters are determined automatically for Beas forms and Crystal Reports.

Further definition of variables

PATH: Administration > System Initialization > Report Setup >

1. "**Open**" a report >
2. "Macro Step" tab >
3. "**Open**" a macro step >
4. "Variables" tab >
5. click "**Open"/"Add**".



Window report_makrostep_varialbe_edit.psr

© 2026 Boyum IT Solutions A/S

Field descriptions

Field	Description
Sequence	Specifies the order of the query.
Variable	Name of the variable. In Beas-Forms are only following variables permitted: s_parm1 ... s_parm5, c_parm1... c_parm5, dt_parm1, dt_parm2 In Crystal documents or SQL-Queries, a variable can have any name.
Query	If the parameter is queried during the macro process, the query text can be entered here.
Type of Variable	Type of variable: Date, numeric or string.
Default	Default variable, if this has not been set. You can use Beas placeholders here. Placeholders begin with < and end with >.

Dropdown	Drop-down lists can be stored here, e.g. item selection, business partner selection, etc.
	Use either a Select statement or one of the default lists.
	
	Alternatively, a selection list can be added:
	`value=display:value,display:value`
	Example:
	`value=red:r,blue:b`
	The content (value) is displayed, for selection the name (display) is shown.
	"Value" is translated from German to output language.

Always Ask	If this option is deactivated, the user is only queried if Beas cannot determine the content automatically or there is no content. Special feature: If you want an empty default instead of a query, you must enter "empty" for Default.
Only Selection	If this option is activated, a value can be selected but not input.
Input check	A Beas script that checks the input can be stored here. The check is only performed when all variables have been completed.

Special features

Marketing documents that access beas_document_header and beas_document_line do not require ANY parameters. There is always only one report to be printed in the table beas_document_header or line.

© 2026 Boyum IT Solutions A/S

When printing demand lists using ProdReservationList, the API automatically controls the parameter query. As the output form accesses the previously generated beas_reportauswertung table, only one parameter named "ID" is required. This variable is also set automatically and does not have to be defined.

3.1.6.7.1.5 Macro Output

The macro output defines how the report created is output.

Note:

Normally the macro output does not need to be specified. Beas controls output independently. However, the default behavior is deactivated if a macro output has been defined.

What is the purpose of macro output control?

Example:

The printing of an invoice should run as follows if it was started using "Print":

1. The document is generated via API "B1DocumentGenerate".

2. The document is generated using Crystal Reports. This document accesses the tables created by the API.

3. The first page of the document should be output on printer 1, tray 1.
A variable "Original" is also set.

4. The first page of the document should be output on printer 1, tray 2.

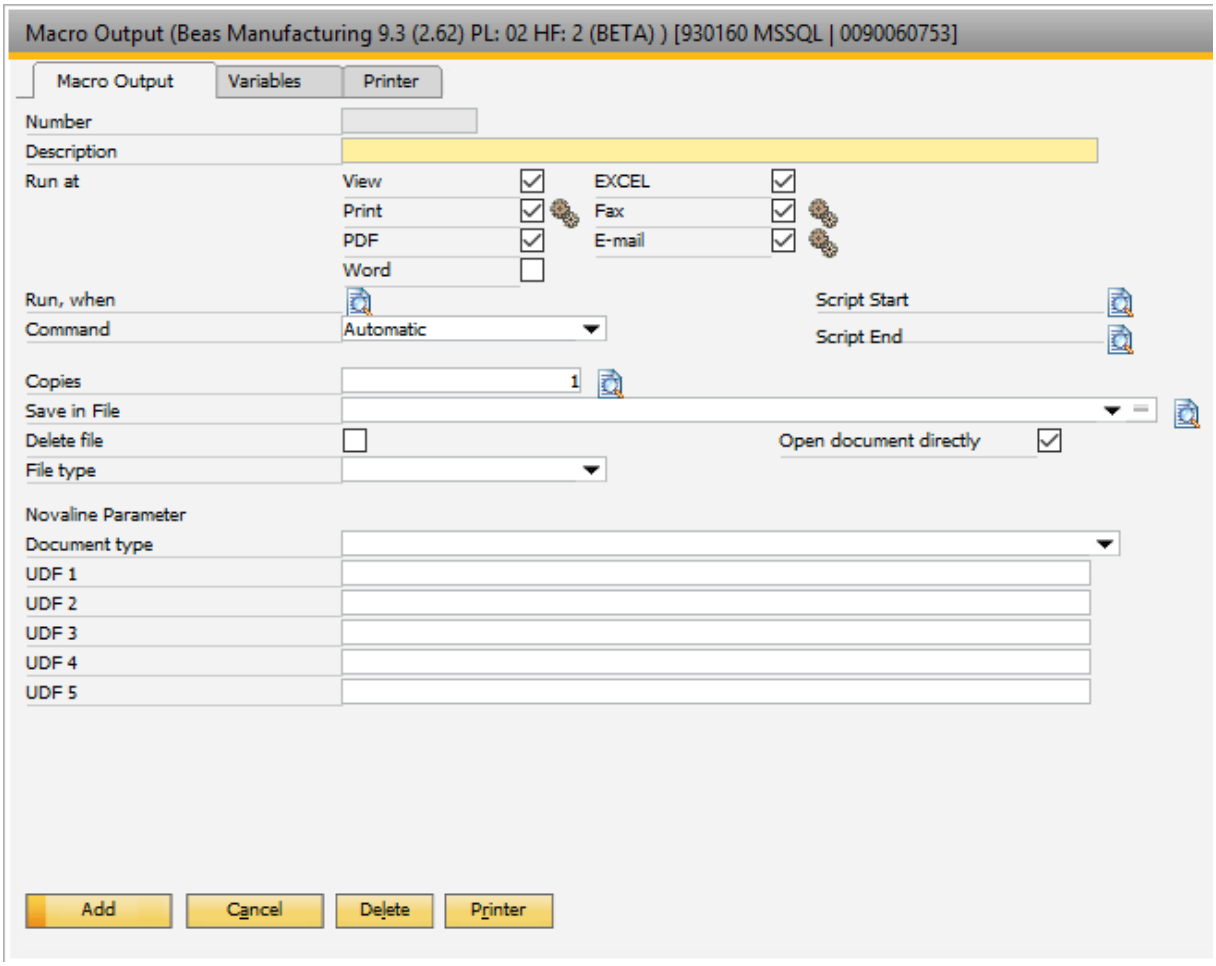
5. The document should also be output again on Printer1, Tray2.
The variable Original is still set to No, as a result of which the word Duplicate is printed on the document.

6. Finally, the document should also be sent by email.

© 2026 Boyum IT Solutions A/S

PATH: Administration > System Initialization > Report Setup >

1. "**Edit**" a report >
2. "Macro Step" tab >
3. "**Edit**" a macro step >
4. "Macro Output" tab >
5. "**Edit"/"New**".



Window report_makrostep_output_edit.psr

Field descriptions

Field	Description
Number	Macro output number (used for sorting – this is run in this order).
Description	For internal use: Description of the macro output step.

© 2026 Boyum IT Solutions A/S

Run at	This output step is only executed if the macro is called using the corresponding icon, e.g. only if "Print" or "Fax" has been selected. Further details for the corresponding process can be stored under Print, Fax and Email using the Settings icon. **Limitation of PDF printing:** "Microsoft PDF Printer" is not supported. Install a different PDF printer to use.
Run if	A Beas script can be stored here. Macro output is only executed if the script returns "True".
Start script	Beas script executed before the macro is output.
End script	Beas script executed after the macro is output.
Command	This is used to define how the output is executed. see next section.
Number of copies	(Only for PRINT type) How often should the document be printed? This setting is forwarded directly to the printer driver. Behind the orange „c“ a script can be deposited. For example, the number of copies can be entered: Use the variable value: e.g. set number of copies to 5: `setvar=value=5`
Save in File	(Not for printing) The file name that should be saved. timestamp -> saves the file in yyyymmffhhmmddfff+counter.filetype in output folder You can use placeholders (beas 9.1 PL: 08), eg. <today,yyyymmdd>_<cardcode> If no folder is indicated, the default output folder is used. The generated report is saved to variable "report_filename".
Delete File Automatically	Files are stored in the attachments directory to prevent too many files from being produced.

Command

The command is used to define how the output is executed.

Output is independent of the call. In this way, you can generate an email on printing.

Name	Description
Automatic	The output depends on the call type. For View – view, for Excel – Excel, for Print – printout, etc.

© 2026 Boyum IT Solutions A/S

	Default setting: Automatic
Display	The report is displayed.
Print	The report is printed.
Save	The report is saved.
Fax	The report is faxed.
Email	The report is emailed.
Only Script	No output. Only start and end script is executed.

The print definition can be stored as a subroutine in the macro output.

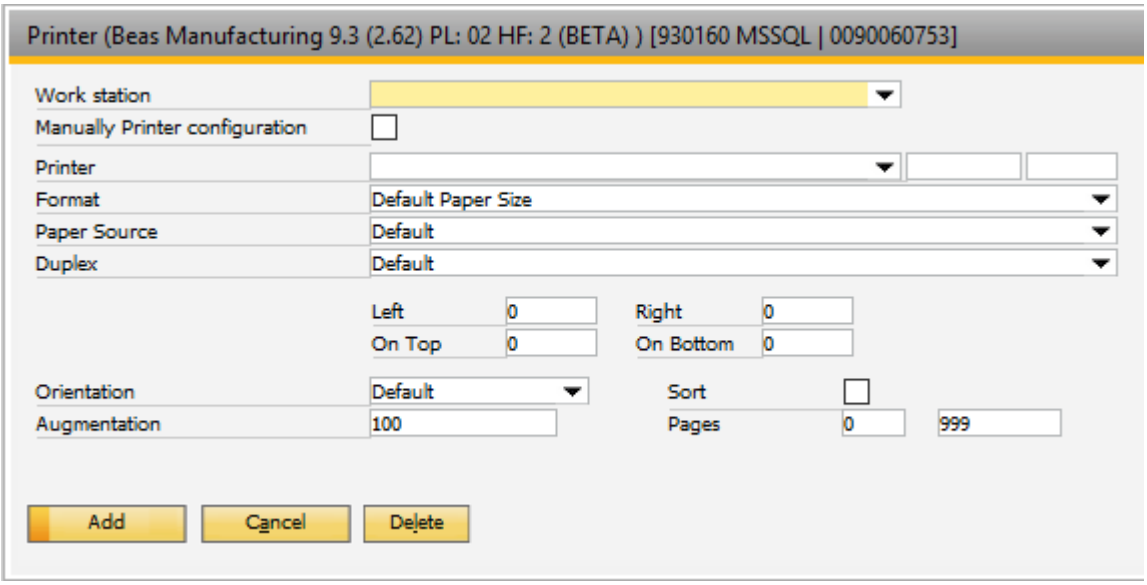
The printer drivers can differ from station to station. Therefore, the setting must be configured directly on the client.

SAP Business One Functions **Administration > User defaults** and **Print preferences** are not supported.

PATH: Administration > System Initialization > Report Setup >

1. **Open** a report >
2. "Macro Step" tab >
3. **Open** a macro step >
4. "Macro Output" tab >
5. **Open/Add**.
6. "Printer" tab >
7. "**Open" / "Add"**.

© 2026 Boyum IT Solutions A/S



Window report_makrostep_output_prt_edit.psr

Name	Description
Resource	Name of the station (client) to which the setting applies.
Manual printer configuration	If activated, the default MS Windows dialog for printer settings opens.
Printer	Name of the printer driver (only using Selection, please)
Format	Only configure if this differs from the default.
Paper Source	Tray...
Duplex print	Print on both sides
Margins	Option for correcting the margin setting
Orientation	Portrait or Landscape - Only configure if this differs from the default.
Sort	If the output should be sorted (only effective if more than one copy is printed).
Pages	Pages to be printed

If it is an SQL query or the current view, additional print options are available:

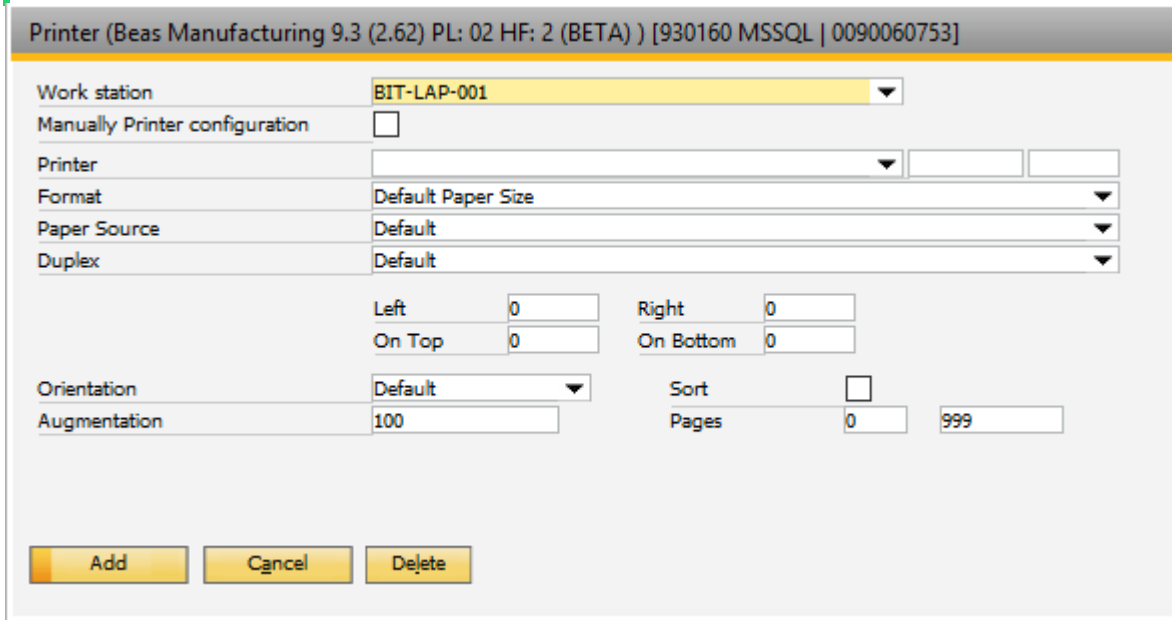
PATH: Administration > System Initialization > Report Setup >

1. "**Edit**" a report >
2. "Macro Step" tab >
3. "**Edit**" a macro step >

© 2026 Boyum IT Solutions A/S

4. "Macro Output" tab >

5. "**Printer**" button.



Window report_makrostep_output_prt_edit.psr

Name	Description
Zoom in	You can zoom in or out on report content.
Color	Print can be switched to black and white.
Quality	Quality of the print – also depends on the connected printer.
Pages	You can also enter page ranges here, such as 1, 2, 4-5, etc.

If the report is emailed, further settings can be configured here.

PATH: Administration > System Initialization > Report Setup >

1. **Open** a report >

2. "Macro Step" tab >

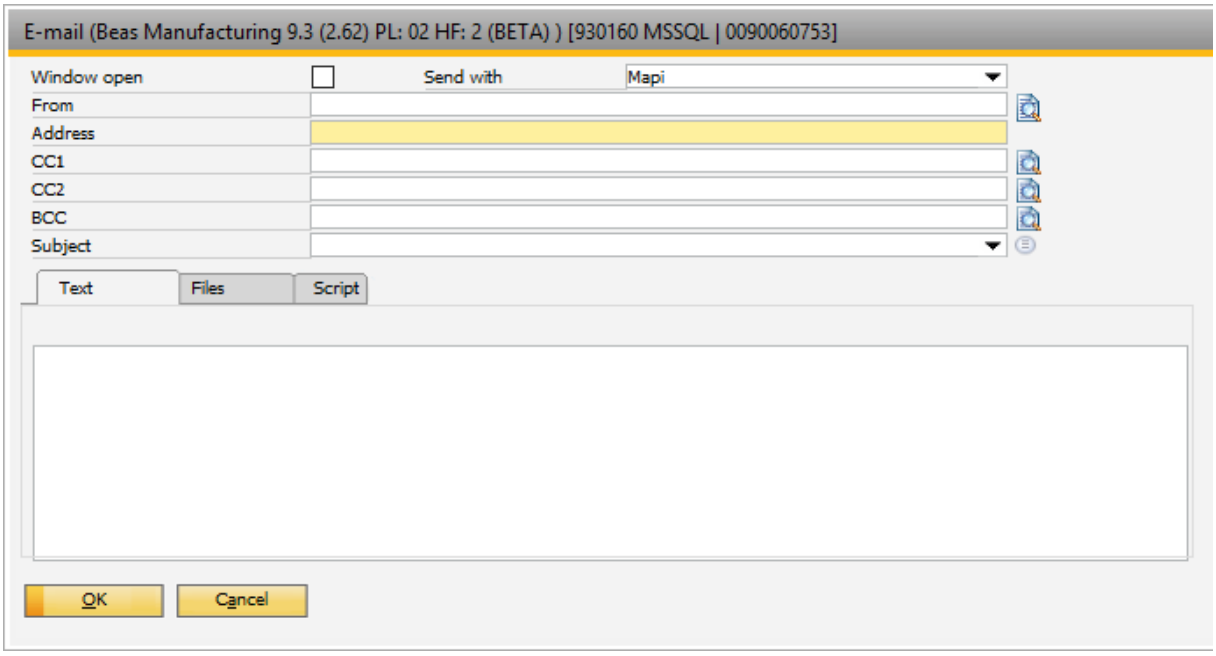
3. **Open** a macro step >

4. "Macro Output" tab >

5. **Open/Add**.

6. Double-click the cogwheel icon right of the "E-mail" check box.

© 2026 Boyum IT Solutions A/S



Window: report_makrostep_output_edit_email.psr

Field Descriptions

Field	Description
Window open	If a document is sent and this option is activated, a window opens in which you can enter the subject line, description, recipient, etc. If a document is sent and Beas does not find all necessary specifications, the email window opens even if the option is deactivated.

From	Enter the sender's Email-address.
	Use the variable "`value`" in the script.
	This works oily with option "send directly"
	This may be necessary, if several users work on one work station but in Windows only one Email-account was set up.
	
	Example:
	On work station "office1" as sender always "`st@mustermann.de`" shall be used.
	`if <station> = office1 then`
	`  setvar=value=st@mustermann.de`
	`end if`

Address	The recipient email address can also be a Beas placeholder.

© 2026 Boyum IT Solutions A/S

	In marketing documents, no instruction has to be entered as the default setting automatically inserts the correct email address.
Email CC1; CC2, E-mail BCC	Secondary recipient. Use direct input or script. **Important:** Script is not executed in the current window, but in the Email-window. To access parameters of the current window, use <parent.> Data is returned in variable "<value>" ***Example***: **// Get Email from Customer-Order UDF U_Email** **select U_Email into value from order where docnum=<parent.item.5.value>** Note: BCC is supported only by Client Type "send directly" and "MS OUTLOOK". For all other variants the recipients are entered as CC - recipient.
Subject	Subject of the email, maximum 50 characters. A Beas placeholder can also be inserted here. Starting the text with a $-character defines the text component for subject and email text. You can also select the component directly. ***See*** Text components
Email text	Text of the email.
File attachment 1...3	Further file attachments. Script is possible. **Important:** Script is not executed in the current window, but in the Email-window. ***See*** above. Script can also be used to define attachments. Format: select format from drop-down: PDF, Excel, WMF, Standard. **Important**: The script is not executed in the current window, but in the email-window. To access parameters of the current window, add <parent.> at the beginning. Return in in variable "<value>"

© 2026 Boyum IT Solutions A/S

	Example: **// Get Attachment 2 from Customer Order, UDF U_Attachment2** **select U_Attachment2 into value from ordr where docnum=<parent.item.5.value>**
Generated File in Format	Field is found in the "Files" tab. Select format to store the generated document. ***see*** Output formats.
Send with	Which client to be used for sending. ***See*** Email-Client-Types User EMail Setup Print and Report settings

Script	Script can be entered to be executed in the E-mail window.
	To access the original window use <parent. ...>.
	
	Script is executed after the E-mail-Client was filled with all properties, but did not start to send.
	Depending on the client type, the following objects are available:
	
	SAP-Message system: not supported
	Send directly: Object "`chilmail=email=...`"
	MAPI or Outlook: "`pmail1234`"
	
	For additional information on parameters and functions of the Client objects please refer to the: BeasScript-Documentation
	
	Example: Enter UDF U_attachment4 as forth attachment via "send directly"
	Note: All information is to be called from the parent-window:
	`// insert attachment4`
	`select U_Attachment4 into :ls_attachment from ordr where docnum=<parent.item.5.value>`
	`if <ls_attachment> <>  then`
	`  chilmail=email=addfile=<ls_attachment>`
	`end if`
	
	for API/Outlook:
	`pmail1234=attachmentfile=<ls_attachment>`

© 2026 Boyum IT Solutions A/S

	to add another CC recipient:
	`chilmail=email=addcc=<ls_mycc>`
	`pmail1234=cc=<ls_mycc>`

The Beas Communications Module offers three sending options:

Windows Mapi	Use Standard-Windows-MAPI. Works with a Lotus Notes-Client, Windows Mail and others. Microsoft Outlook does not work always properly.
Send directly	Beas supplies an own E-mail-Client which is installed automatically. E-Mail accounts are set up with User settings or in Configuration wizard.
MS Outlook	By default a MS-Outlook-32-Bit-API is installed. With the Outlook-Client Emails can be sent. Currently restricted to 32-Bit.
SAP Message system	If the SAP-Email-service is installed, E-mails can be sent. Due to many restrictions, we disadvice to use it.

See

Configuration wizard – Administration – Printing and Report settings

EMail Types

Macro definition – Email

User settings

back to Email

The Beas Report system communicates using the default Windows API. Different email programs behave differently here.

MS Outlook:

A security warning is displayed. This indicates that an external application is attempting to access your data. The "Click Yes" navigates to an auxiliary program which can be downloaded from the Internet provides help (Note: not a Beas program).

Lotus Notes:

The email sending window is always displayed, which, some users may find distracting.

© 2026 Boyum IT Solutions A/S

Activation:

Use of the SAP messaging system is activated as a default setting. However the setting can be set separately for each macro.

Macro Step – Macro Output – Email Settings
Send with local email client

back to Email

Unfortunately the SAP message system is not 100% compatible with the Report system. It is advisable not to use it. In this system, the SAP mailer creates HTML emails.

Shipping address = email address of the user who created the message.

Requirement for using the SAP messaging system:

1. The SAP Business One mailer must be installed, activated and correctly set up in the SAP server tools.
2. A valid email address must be stored for the SAP user.

SBO mailer setup

1. Start SAP Business One mailer service
2. "Auto-Start Service when OS Starts"

© 2026 Boyum IT Solutions A/S

3. Settings

Enter the necessary data here and test them.

4. Connection

Enter connection information on the SQL server.

5. Database

Specify which databases can be used to send messages.

back to Email

Beas is supplied with an SMTP client that can establish a direct link with an email server. The email account can be stored user-specifically (not station-specifically) in SAP for this purpose.

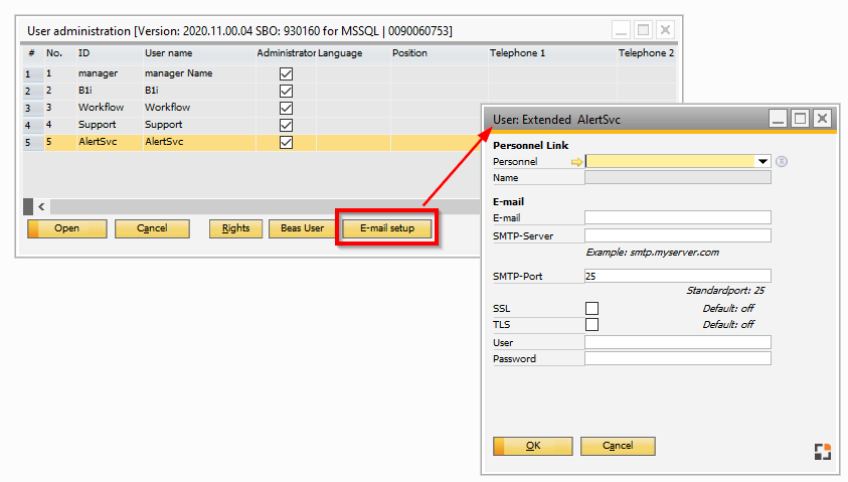
© 2026 Boyum IT Solutions A/S

To set up direct access to the SMTP server, go to:

PATH: Administration > Setup > General > User (Beas)

If the user has already been created, click the **E-mail setup** button to go directly to the settings.

If the user has been created as new, the input must be stored in advance.



Field Descriptions

Input field	Description
Email	Email address of the user
SMTP server	SMTP server of the email address
SMTP port	SMTP port (by default: 25)
SSL	Activates SSL encryption
User	User name of the email mailbox (normally the email address)
Password	Password of the email account

Default email address

If no e-mail address is found in the user profile, a general e-mail address can be stored in the Configuration wizard instead.

© 2026 Boyum IT Solutions A/S

See: **Administration > System initialization > Configuration wizard > Administration > Print and report setup > Email**

Microsoft Exchange

is supported.

POP3	TCP:110
POP3 (SSL)	TCP:995
SMTP	TCP:25

back to Email

3.1.6.7.1.6 Event sequence

This chapter describes the exact event sequence in a macro.
All green entries can be manipulated directly.

Start macro

Saving the environment (variables)
Variable `macroid` with the macro number
Variable `macrostartas` with the macro type (fax, email, preview, print, Word, PDF ..)
Setting the 4 possible parameters as per the window object description (for definition of sales/purchase documents)
Deleting the global header functions
Window definition object: Call window-related script
Macro start script. Cancellation option with return failure.
    Among other things, the global functions can be set here, which are then called.
If API is stored: API script (e.g. creation of entry in beas_document_header/line)

user-definable function
reportscript_report_preinit()
reportscript_report_init()

Loop SQL header query execute - as per macro setting (any SQL instruction).
    This can also have been defined in advance using the variable `report_loopscript`
Variable query as per macro header.

© 2026 Boyum IT Solutions A/S

Variable query as per API

reportscript_post_variable()

LOOP SQL header query

Transfer of all results of the SQL instruction to the variable system, prefix is `e_`,
e.g. the result column "itemcode" is stored in variable `e_itemcode`

reportscript_macro_loop()

Loop macrostep

resetting of global macro step functions

Active script. "`return failure` can be used for canceling

Start Script. "`return failure` can be used for canceling

The global macro step function can also be defined here, for example.

Definition MacrostepSQL query

reportscript_step_prevariable()

Variable query as per macrostep

reportscript_step_postvariable()

If Crystal

setting variables: `parameterrequest`, `externreport`, `connectverify` as per macrostep setting

Open Report

set database connection

If beas form

Setting all variables. Variable `s_parm1`, `s_parm2` ..., `c_parm1`, `c_parm2` .. are transferred to the structure variable

`str_parm.s_parm1`, `s_parm2` ... . Variable beginning with "`var_`" are transferred to the variable system

without "`var_`" to the target window.

Open window. Continue to next macrostep.

END

Loop macrostep SQL query

Transfer of all results of the SQL instruction to the variable system, prefix is `e_`,

© 2026 Boyum IT Solutions A/S

e.g. the result column "itemcode" is stored in variable `e_itemcode`

reportscript_step_preinloop()

If SQL query

Replacement of placeholders in query

Generate report

If current window (only beas form)

as per variable `sys_printdw` cache the corresponding DataWindow in $$tempdwcopy.psr,

reload and remove graphics.

END

Loop macrooutput

Variable query as per macooutput

If Crystal

query missing parameters

Set parameters

Determine Excel path

Determine filename (if fax/email, then "`yyyy/mm/ddhhmmssffff`")

otherwise "preview" or as per specification

Determine output type, if not specified

Determine extension depending on format

Preview? Depending on type and specification

Crystal - disconnect for max. 4 seconds

If printing: set printer driver, print - (the "retrieve" is only performed here)

Otherwise export (the "retrieve" is performed here)

If Current Window, SQL query

find directory, if EXCEL, then the Excel directory,

otherwise the attachment directory.

Determine output type, filename and extension.

If printing: Set printer driver, print

Otherwise export according to data type

END

© 2026 Boyum IT Solutions A/S

If FAX

Determine fax number

If via SAP: generate and send SAP message

If via Windows: send the document to Windows API (only specific data formats are permitted)

If email

If subject starts with $, get text module, replace placeholders

Determine email address

CC1 and CC2 - where applicable also determine using script. Return script must be in variable "`value`".

Determine attachments. Scripts must return attachments in variable "`value`".

Open email window where necessary

Send email depending on type.

If Novaline

novaline_init()

Transfer of Novaline parameters (`novaline_param1,...5`)

Call of Novaline API.

END

reportscript_step_postinloop()

end Loop macrooutput

end Loop macrostep SQL Query

reportscript_step_prinzkz() - but only if "set print ID" has been activated

If Crystal: Disconnect

end Loop macros

end LOOP SQL header query

reportscript_prinzkz() - as header function - but only if "set print ID" has been activated

Reset the variable environment, which has been saved in advance.

© 2026 Boyum IT Solutions A/S

3.1.6.7.1.7 Output Formats

Available output formats:

Format	Crystal	Infomaker / Powerbuilder or own SQL-Statements
Acrobat PDF	yes	currently not possible
XLS	yes	yes
XML	yes	yes
RTF	yes	yes
Word	yes, as RTF	as RTF
HTML	yes	yes
Excel	yes	yes, as data format and as 1:1-view, but not the structure view
WMF	no	yes
CSV	no	yes
Text	no	yes
DBase	yes	yes
Lotus Notes	no	yes

Note: Structure views can only be exported to a limited extent: for example in PDF-Format or WMF-Format. For other, formatting will be lost, in Excel it is not correctly displayed.

Export window content

Each Beas window consist of one or more forms. Always one form can be exported. Example: order recommendation view consist of 3 forms: item list, peggings, additional information (right below)

See

Crystal

3.1.6.7.2 Preview BEAS form

A list of stored macros for the current window is displayed. If it is an SAP Business One window the selection is displayed only in case Beas was not disabled,. ***see*** macros.
If it is a Beas window, the selection "preview" is displayed. If no macro is assigned, the preview of the current window is shown. For more information on Macro Settings refer to Report Settings.

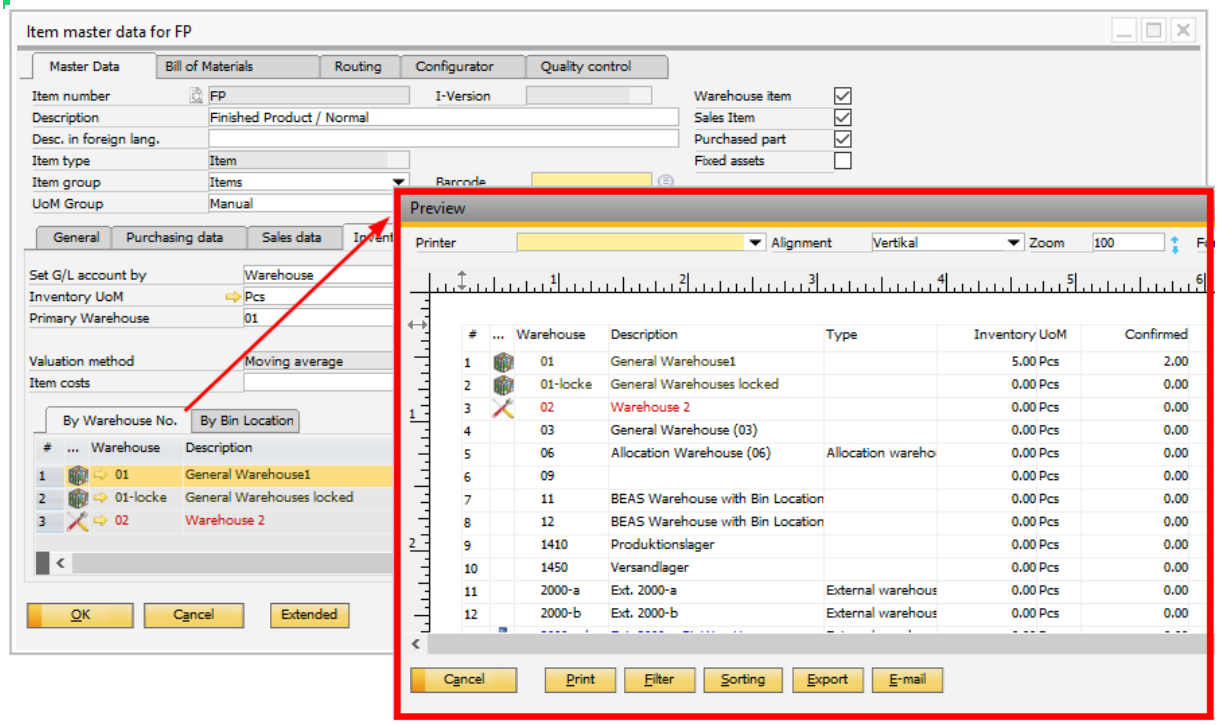
© 2026 Boyum IT Solutions A/S

Preview

The preview is only active in Beas windows. The current window is displayed in a preview function, before printing or exporting adaptations can be made. It can be saved as a file or sent via email. Several data types are supported. ***See*** Output Formats .

Various Beas windows contain multiple forms, partially nested. For example the item master. In the preview only one form is displayed. The form currently in the focus is automatically selected.

PATH: Beas window > right-click menu > second tab > "Preview"



Available options:

Name	Description
Zoom	Content is reduced or enlarged, then printed accordingly.
Alignment	Switch between Vertical (portrait) and Horizontal (landscape.)
Printer	Name of the printer driver to be used for printing.
Print	Print current view as is.
Column width	You can use the mouse to change the column widths for the printout.
Column order	By clicking on the title you can change the order via Drag&Drop.

© 2026 Boyum IT Solutions A/S

Selection field "export"	Export format for buttons Export and Email. ***See*** Output Formats.
Export	Saves the view in the selected format.
Filter	This button opens the "Specify Filter" window where you can select from a range of functions and columns to filter the preview.
Sorting	This button opens the "Specify Sort Columns" window. Here you can drag and drop fields to the sorting editor, and then double-click each field to edit its expression.
E-mail	E-mail the report in a separate window. Edit the recipient, the subject and text of the email. You can add up to 2 CC (carbon copy) and 1 BBC (blind carbon copy) and up to 4 attachments. *Window report_makro_email_response.psr*

Note: To export to PDF, install the Ghostscript driver first.

Download here: http://www.ghostscript.com/download/

back to Window

3.1.6.8 APIs

In Macros you can select API's is some windows, which simplifies the creation of Crystal-Reports.

Available APIs:

Name	Table	Description
B1DocumentGenerate	beas_document_header and line	Prepares a marketing document and inserts it into these tables.
itemstructure	beas_reportanalysis	Creates the structure for an item, including correct quantity calculation.
ProdReservationList	beas_reportanalysis	Calculates the complete material requirement for work orders.

The APIs can only be called in specific areas. For example, B1DocumentGenerate can only be called in the marketing area, ProdReservationList only in the production area.

© 2026 Boyum IT Solutions A/S

3.1.6.8.1 b1documentgenerate

If this API is active, Beas generates two tables BEFORE printing the documents:

beas_document_header
beas_document_line

These can be easily accessed with Crystal Reports, since the data is calculated, translated and formatted in advance.
Beas also ensures the upward compatibility of the forms, since this structure does not change, however it may be expanded.

After print content of the table is deleted. To keep it, ***see*** Configuration wizard – Print and Report settings

beas_document_header

ID	unique ID
docnum	Document number with prefix and suffix (char)
num_docnum	Document number as number
docentry	Internal document number
docdate	Formatted form date
docduedate	Formatted form date
taxdate	Formatted form date
printdate	Formatted print date (always current date)
cardcode	Customer Number
cardname	Customer Name
cardfname	Foreign language name
lictradnum	UID number of business partner
addid	ID no2 of business partner
vatidincmp	
iban	IBAN of business partner
language	Document language (Beas language type)
languageitem	Item language (Beas language type)

© 2026 Boyum IT Solutions A/S

ID	unique ID
Net	Net total (total of all individual prices before discount), formatted in document currency
discount	Discount, formatted in document currency
discountpercent	Discount percentage, as a number
nettotal	Net total after discount, formatted in document currency
vattot	Tax total formatted in document currency
doctotal	Gross total formatted in document currency
currency	Document currency
num_net	Net total, as number
num_discount	Discount total as a number
num_nettotal	Net total after discount
num_vattot	Tax total as number
num_doctotal	Gross total as number
contactname	Customer contact person
contacttitle	Title
contactposition	Position
contactaddress	Address
contacttel1	Contact telephone number 1
contacttel2	Contact telephone number 2
contactmobile	Contact mobile phone number
contactfax	Contact fax number
contactemail	Contact email address
contactpager	Contact pager
shiptocode	Supplier address name
shipaddress	Formatted address details
shiplictradnum	UID number of delivery address
transportcode	Terms of delivery description
slpcode	Inhouse contact person
ownercode	Document owner (code)
ownerfirstname	Document owner first name

© 2026 Boyum IT Solutions A/S

ID	unique ID
ownermiddlename	Owner middle name
ownerlastname	Owner last name
ownerjobtitle	Owner job title
ownerposition	Owner position
ownerdepartment	Owner department
ownerbran	
ownerofficetel	Owner office telephone number
ownermobile	Owner mobile phone number
ownerpager	Owner pager
ownerfax	Owner fax number
owneremail	Owner email address
paymentconditionname	Payment conditions. If a discount is stored, the name of the discount condition is output
paymentcondition text	Discount information
companyname	Name of own company
companyadress_as_line	Address as single line
companyprintheader	
companyphone1	Company phone number 1
companyphone2	Company phone number 2
companyfax	Company fax number
companyemail	Company email address
companymanager	Managing director
companyrevoffice	
companytaxidnum	Company tax ID number
companyfreezoneno	
report_header	Page header (each page) - can also be RTF-formatted
report_start	First header text
textheader	Document header text
textfooter	Document footer text

© 2026 Boyum IT Solutions A/S

ID	unique ID
document_end	Fixed document end text
report_end	Last fixed footer text
report_footer	Page footer (fixed, each page)

beas_document_line

ID	Fixed ID
line	Continuous serial number. Sorting is performed using this serial number.
linenum	Internal line number of the document
linepos	Visible line number of the document line
linetype	Line type S=Subtotal
baseref	Base document reference
basetype	Base document type
baseline	Base document internal line number
baselinepos	unassigned
basedocnum	unassigned
linestatus	Status of the line. O=Open, C=Close
itemcode	Item Number
catalogno	unassigned
description	Item description. If translation is available, then translated into ITEM DOCUMENT LANGUAGE. If there is no translation in the item document language, the system checks for a document language translation.
Match code	Match code from item master
drawingnumber	Drawing number from item master
longtext	Long description (possibly RTF) If sales document: if item document language = database language, then own long description, otherwise foreign language description. If translation for item document language exists, then its sales description has priority. If purchase document

© 2026 Boyum IT Solutions A/S

ID	Fixed ID
	Long text of order according to item master. If translation for item document language exists, then its order description has priority.
project	
Barcode	"codebars" field from document line
vendornum	From document line
serialnum	From document line
sernumflag	If serial number item, then Y
batchnumflag	If batch number item, then Y
suppcatnum	From item master
quantity	Formatted quantity specification in document quantity unit
openquantity	Open quantity formatted
quantityunit	Document quantity unit Translated according to SAP Business One translation for sale in the item master according to unit of sale. For purchase, according to the unit of purchase.
num_quantity	Quantity as number in document quantity unit
num_openqty	Open quantity as number in document quantity unit
num_in_sale	Conversion factor to unit of store
packunit	unassigned
num_in_pack	unassigned
factor1...4	Packaging factors
num_width	Width
width_unit	Width specification: unit as symbol
num_length	
length_unit	
num_weight	
weight_unit	
num_volume	
volume_unut	
shpdate	Delivery date formatted as a string
price	Individual price in document currency as a string.

© 2026 Boyum IT Solutions A/S

ID	Fixed ID
	Individual price relates to each document quantity unit.
pricetotal	Individual price in document currency as a string. For subtotals, the subtotal price.
discountpercent	Listed here as a number.
discount	As a string
num_price	Price as number in document currency
num_pricetotal	Price as number in document currency
currency	Output currency
whscode	Store Code
vatgroup	Tax group

back to APIs

3.1.6.8.2 itemstructure

This API is only available in "Lists master data" and generates a structure display of the selected item in the "BEAS_REPORTAUSWERTUNG"

It can be called up manually:

```
setstr=art_id=<itemcode>
object=ue_artikelstamm=strukturexport
```

Parameters: no

Default variablen: `str_parm.s_parm1 = Artikelnummer`

Output:

Return

Item structure in table `BEAS_REPORTAUSWERTUNG`

Variable "`id`" referring to `BEAS_REPORTAUSWERTUNG.ID`

Example: Export item structure to Excel

```
setstr=art_id=781-a
object=ue_artikelstamm=strukturexport
declare=lds=ue_datastorevalues
lds=select "BAUGRUPPE"||'' as
assembly,"POS","ItemCode","ItemName","LEVEL","MENGE_VERBRAUCH_SOLL"+0.0000 as
quantity from "BEAS_REPORTAUSWERTUNG" where "ID"=<id> and "ART"=50 order by "NR"
lds=saveas=excel=c:\temp\myresult.xls
destroy=lds
```

© 2026 Boyum IT Solutions A/S

```
sql=delete from "BEAS_REPORTAUSWERTUNG" where "ID"=<id>
```

Result in table BEAS_REPORTAUSWERTUNG

BoM rows

id	unique ID
nr	continuous number
art	row type 50=BOM
level	Structure level
pos	Bill of materials (BoM) position
baugruppe	Item number of assembly
itemcode	Item number of BoM position
itemname	Item description in BoM position
znr	Drawing number in BoM position
menge_verbrauch_soll	Requirement quantity per 1 assembly of the upper level in consumption units, without consideration of scrap
menge_verbrauch_ist	Single quantity in consumption units without consideration of scrap
oberbaugruppe	Item number for first level assembly (also: str_parm.s_parm1)

Routing

id	unique ID
nr	continuous number
art	row type 52=routing
level	Structure level
pos	routing position
baugruppe	Item number of assembly
zeit_tr	Setup time (BEAS_APL.TRAPLATZ)
zeit_te	Mach+Labor Time/unit (main work time from BEAS_APL.TEAPLATZ)
zeit_soll	Total time per 1 assembly of the upper level in consumption units, without consideration of scrap
nutzen	Use factor
anzhal	Number factor

© 2026 Boyum IT Solutions A/S

id	unique ID
ag_id	Catalog number
itemname	Activity (first 100 letters)
aplatz_id	Resource
agtyp	Operation type
oberbaugruppe	Item number assembly first level (str_parm.s_parm1)

back to APIs

3.1.6.8.3 ProdReservationList

This API is only available in production lists and creates an analysis of the material requirement for the selected work orders in the "beas_report analysis" table.

The following variables can be transferred:

cbelnr_id_von	Document from
cbelnr_id_bis	Document to
cbelegnummern	Document numbers separated by commas. Only considered if it is set.
citemcode_von	Item From
citemcode_bis	Item To
cmatchcode	Match Code
clieferdatum	Deliver by ..
ckunde	Customer
cauftrag	Work order ID
cproject	Project code
csachb_id	Employee from
cbsachb_id	Employee to
cverdichtet	Short Y/N

back to APIs

© 2026 Boyum IT Solutions A/S

3.1.6.9 Crystal Reports Support

Beas supports Crystal reports documents, but does not use Crystal report functions of SAP Business One. The Crystal-Report-Engine Version XI is used, which is provided together with the server installation.

See Report settings, Macros, Configuration wizard – Reports

Output

Beas puts out the documents as PDF via the installed PDF viewer or a via Beas integrated viewer. This is changeable in the Configuration Wizard.

Connection to the current database

The Beas viewer connects the SQL command which is stored in the document with the current database. All select instructions are be adjusted automatically. If you do not want your commands to be adjusted, execute them as a procedure-object or a SQL-function. This object has to start with the name "command" e.g. "command_mysql". Include in the SQL instruction:

- The name of the server and the database
- Name of procedure or function, or the report in the network environment with the database where it is executed.

Special characters must not be used in a SQL server name. The database must be connected in the Crystal documents via ODBC.

To use reports developed for MS-SQL in the HANA environment, make sure that the correct database connection is used in the report. Also ***see*** Crystal reports errors and solutions.

Translations

Beas translates the report automatically. Text-Object names have to end with "_t", e.g. "itemcode_t".

Notes Crystal functions, which have been added after Crystal version 11, are not supported, e.g. 3D barcodes or QR-Barcodes.

The crystal viewer is a component of the server-installation (only MSSQL) and will be installed only separately.

See

Crystal reports errors and solutions

Translation

API's

© 2026 Boyum IT Solutions A/S

Date and time format

Units of measure (Report)

Formular texts

Item texts

Set up output language manually

3.1.6.9.1 Translation

This chapter details the Beas translation concept.

All reports are generally translated into the currently configured language of the program.

For marketing documents, the language of the business partner or language stored in the document is used.

The Beas report system can translate reports from every language into every language.

There are very different systems involved:

System	Description
Form	All text fields in the form are translated into the language that is transferred to the form system (e.g. customer's language). The translation table for this function can be configured in the settings for every language into every language. To this end, there is: a) A default translation table for sample reports b) A customer-specific translation table c) A report-specific translation table which is stored directly in the report If no translation is found, Beas proceeds as follows: 1. Translation into German 2. Translation from German into target output language
Form contents	Content is translated using the SAP translation system (sales and purchasing documents only). In SAP, a translation can be stored for almost every field. Beas prepares a table in which the report to be printed is supplied fully formatted and translated.
Date formatting	(Sales and purchasing documents only): In a table, the date fields are supplied formatted into the corresponding language BEFORE printing. The report designer does not have to do this.

© 2026 Boyum IT Solutions A/S

	See Date and time format General settings – view
Number formatting	(Sales and purchasing documents only): In a table, the date fields are supplied formatted into the corresponding language BEFORE printing. The report designer does not have to do this. ***See*** Date and time format General settings – view
Units of measure	(Sales and purchasing documents only): In a table, the quantity fields are supplied formatted in the corresponding language BEFORE printing. The system also differentiates between the singular and plural forms. The report designer does not have to do this.

3.1.6.9.1.1 Units of measure

Only applies to marketing documents.

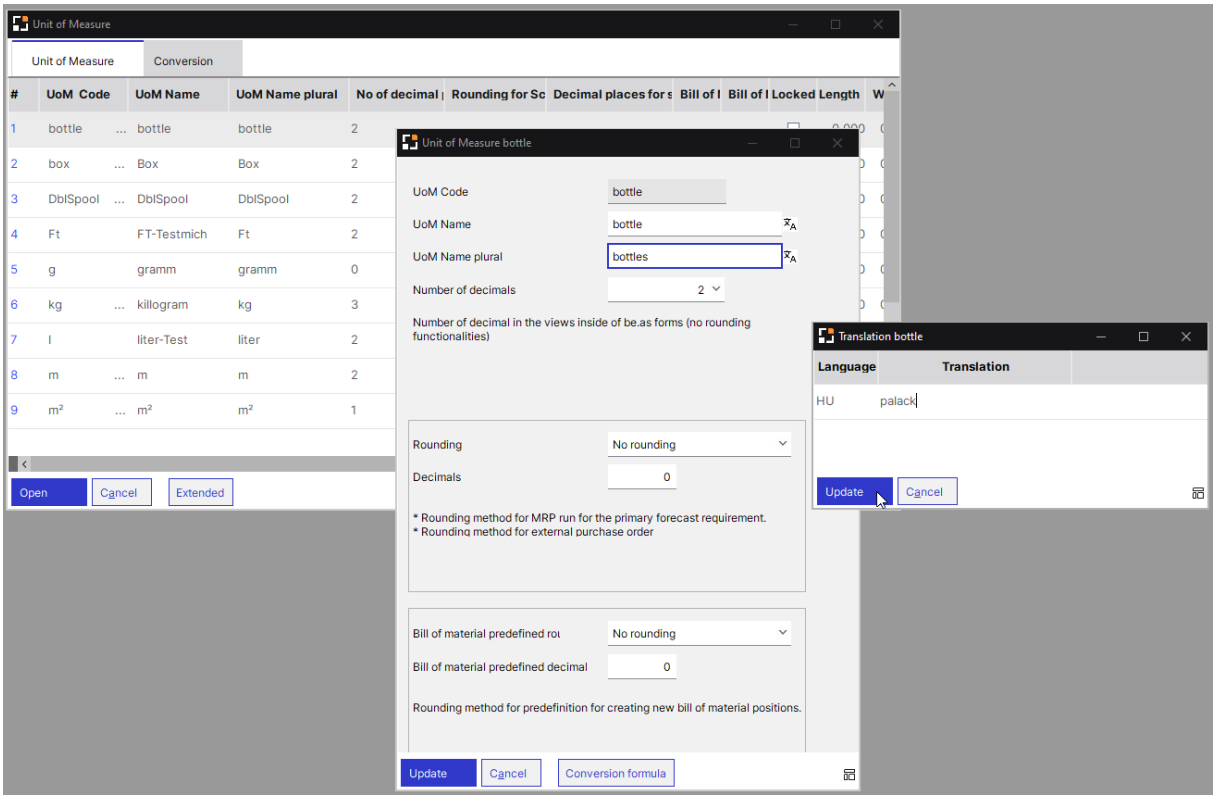
In SAP, quantities can be translated. However, this must be performed separately for each item and language.

This is handled differently in Beas: Beas has a quantities table.
Not only must quantities be translated, the singular and plural forms must also be considered.

Work flow:

1. Double-click a unit of measure in the list,
2. Single-click the "Translation" icon right of the "UoM Name" and "UoM Name plural" fields,
3. Select the Language with a right click,
4. Type the translation in the relevant field.
5. Click **Update**:

© 2026 Boyum IT Solutions A/S



Windows:

Unit of measure - browse: *basis_me_browse.psr*

Unit of measure - edit: *basis_me_edit.psr*

Tranlation: *system_spr_col.psr*

3.1.6.9.1.2 Form Texts

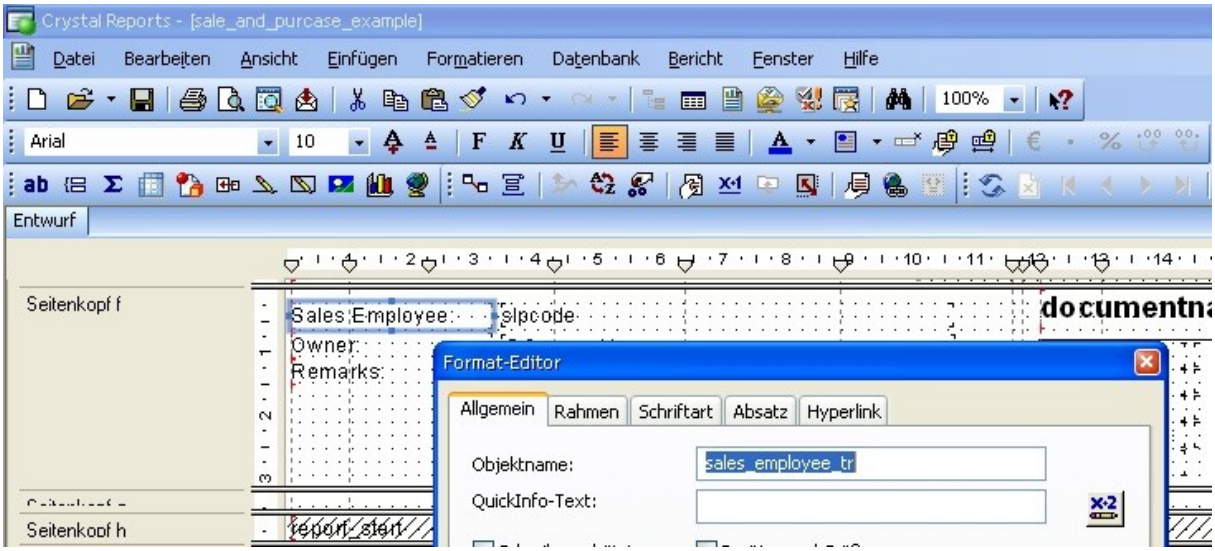
Relates to every type of Crystal document:

Every text that is stored permanently in the form can be translated.

Requirement:

- The object name of a text field in the Crystal document must end with "_tr"

© 2026 Boyum IT Solutions A/S



- OR: This is a formula field that starts with " and ends with ". The content is then translated.

Translation:

Beas uses a multilevel translation system in the following order:

Name	Description

Text field in the Crystal document with the object name "translate"	The translation can be stored directly in this text field:
	`<Original word used in report>=<language>:<Translate>,<language>:<translate>`
	Example:
	`document date=DE:Belegdatum, FR:Date du document`

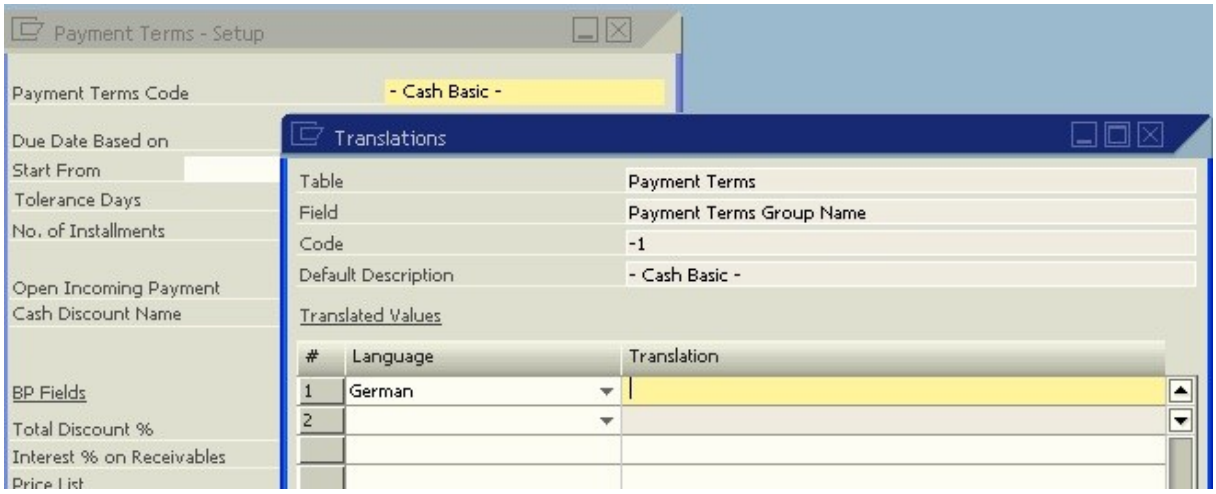
Translation as per Beas/Extra/Report Setup	Each word can also be translated into any language here. See below.
Translation via proprietary Beas translation table	Beas includes multiple translation tables. The base language is German. For this reason, the text is first translated from the form language into German and then into the output language.

3.1.6.9.1.3 Item Text

Marketing documents only:

Item text, delivery type, payment type etc. can be translated directly in SAP:

© 2026 Boyum IT Solutions A/S



When Beas prepares a report, these entries are translated into the corresponding output language.

3.1.6.9.1.4 Set Output Language Manually

If a report is to be printed in another language and it is not a sales or purchase document, a small script can be used to do this:

1. Open layout
2. Open macro step of the report (or add macro step if necessary)
3. Open script on "Start instructions" (on the orange c)
4. Use command "`printobject=setlanguage=x`" to set the required language
   e.g. `printobject=setlanguage=EN` always prints the document in English.

3.1.7 Folio Numbering

Folio Numbering (POI) is not supported in Beas.

3.1.8 Tooltip Preview

SAP Business One – Tooltip Preview function is not supported in Beas.

Note: With the Beas Usability package you can define your own tooltip for every field.

3.2 Setup

The setup section is used for defining settings and defaults for fields that are used throughout Beas

PATH: Administration > Setup.

© 2026 Boyum IT Solutions A/S

General
Financials
Business Partners
Inventory
Precalculation
Production
Project
Complaint

3.2.1 General

PATH: Administration > Setup > General.

The following areas can be set up in the General menu entry:

User administration
Languages
Translation

3.2.1.1 User Administration

User administration

Extended E-Mail Setup , User
Beas user
Rights management

PATH: Administration > Setup > General > User (Beas).

There are different user types:

Overview on user types

Type	Description
SAP Business One - User	Logon to Beas via SAP Business One - user. Every user needs a SAP Business One - license. **IMPORTANT:** Make certain to have the proper rights in the B1 license system to perform your actions. ***Example:*** To create a Goods receiptm, you need a license to perform this in Beas. This user type expands the SAP B1 user to configure additional information for the user. ***See*** Extended User settings

© 2026 Boyum IT Solutions A/S

Beas User	Not compatible with SAP license - user cannot do any action related with SAP. **IMPORTANT:** Due to its limited functionality, use is not recommended.
Personnel	Personnel has access to the Terminal. If the DI-API is required for various functions, the SAP Business One - user according to **Configuration wizard > System** is used (Regard SAP Business One - license rules!) Some functions only work using the Personnel ID, therefore the SAP Business One - user needs to be set up as personnel, too. ***See*** Edit personnel master data.

SAP Business One **– User**

User administration **Administration > Definition > General > Users** shows all SAP Business One-users. If a user is a "Superuser", he also has administrative rights in Beas.
If the user does not need SAP Business One functionality and works only with Beas, he can be created in Beas as Beas user.
He does not need access rights in SAP Business One since all SAP Business One functionalities are then executed under the user stored in **Administration > Definition > General > Users (Beas)**

Functions:

Show disabled messages	If the user selected "do not show anymore" for a warning message, this selection can be reset here ***see*** Warning messages
Rights	Authorization control for Beas. ***see*** Rights management
Beas users	Administrate Beas-users without SAP License.
Extended	General, personnel and cockpit settings, and email - server - port and authentication settings. E-mail-account for this user with link to personnel

Beas – User
There you can store users, who can logon independent from a SAP Business One - license. Use this feature if you work with own program extensions, independent of SAP Business One.
See Beas Users

© 2026 Boyum IT Solutions A/S

3.2.1.1.1 Extended user settings

User administration

Extended: EMail Setup, User

Beas user

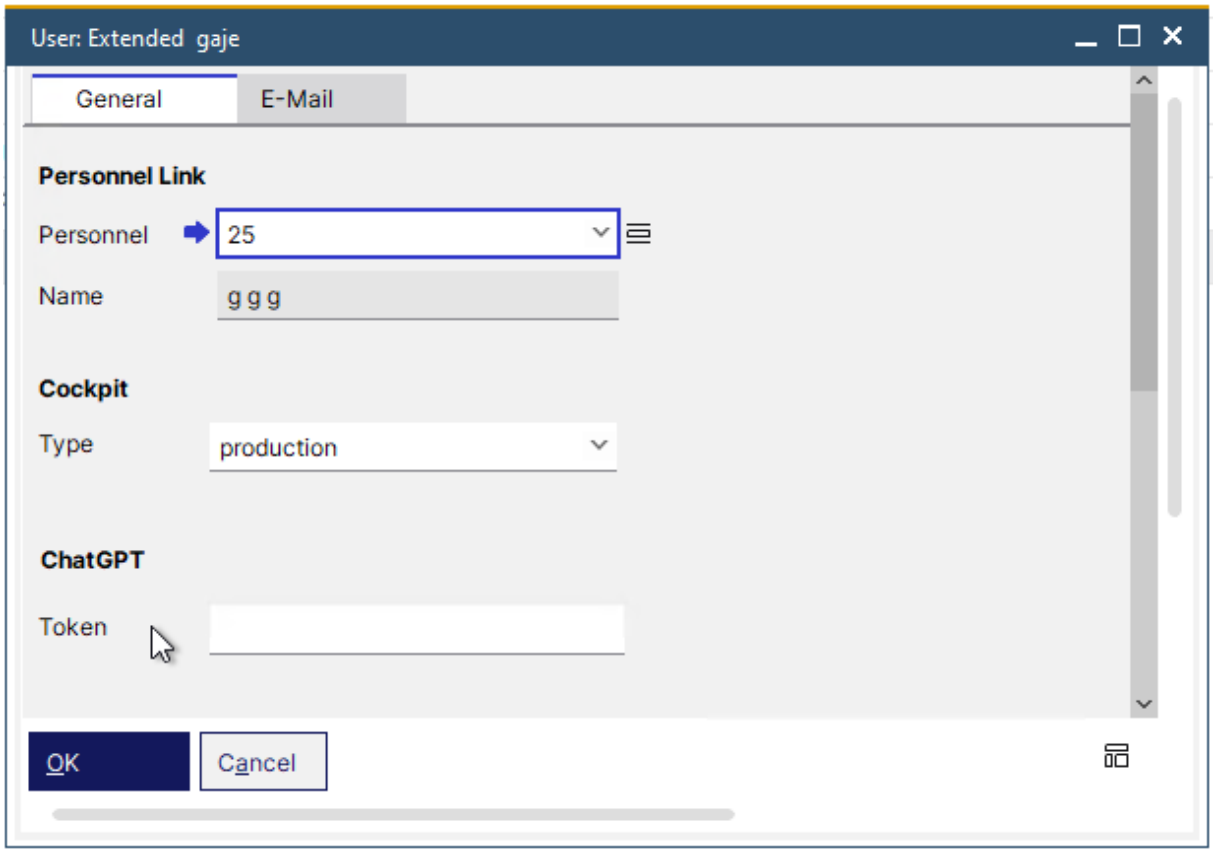
Rights management

PATH: Administration > Setup > General > User (Beas).

1. Select user.
2. Right-click > **Extended**.

General tab

This tab contains personnel link and cockpit settings for the selected user.



Window system_benutzer_ousr_smtp.psr

Field descriptions

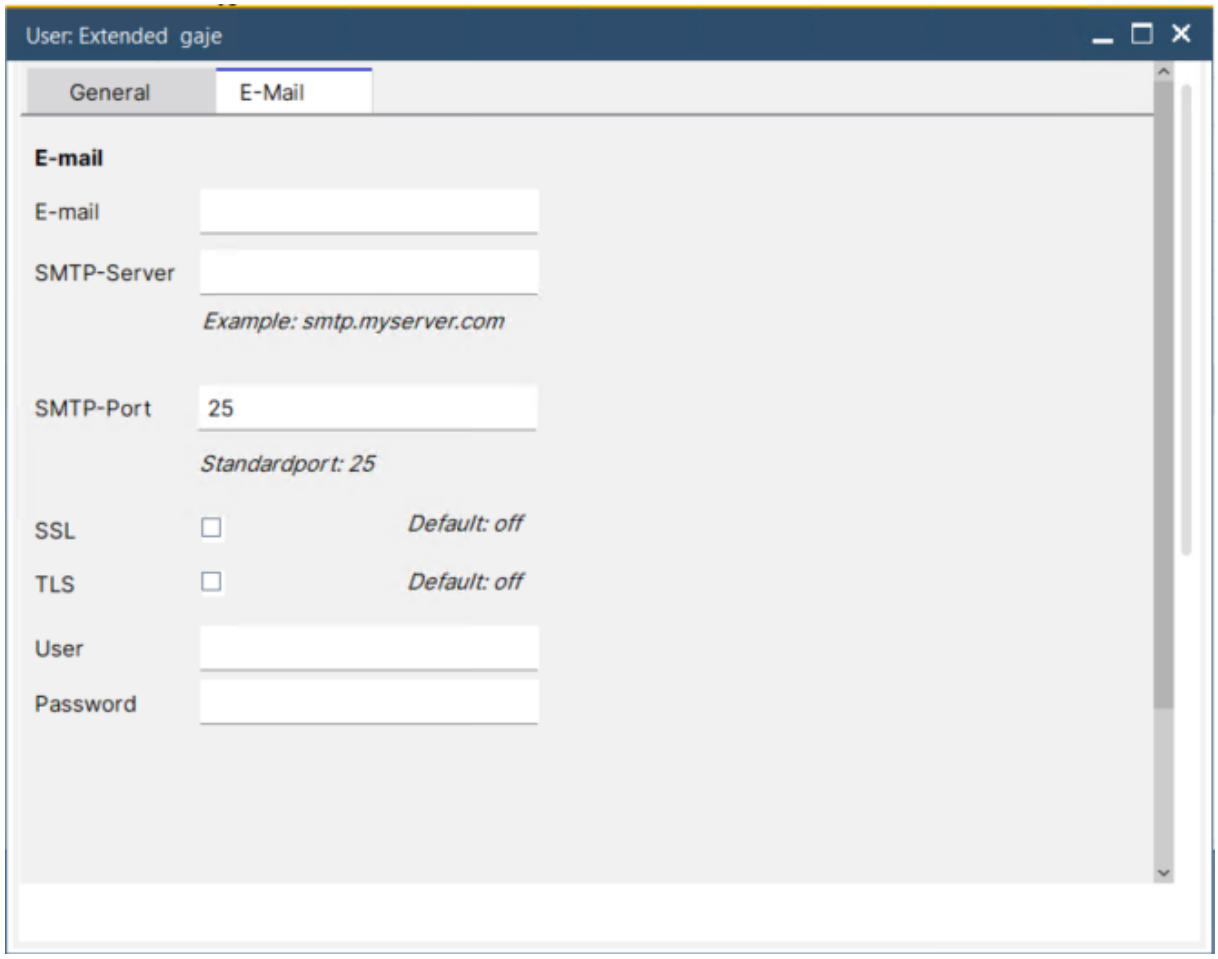
Field	Description
Personnel Link	

© 2026 Boyum IT Solutions A/S

Field	Description
Personnel	Personnel user code
Name	Name of personnel
Cockpit	
Type	Set the type of cockpit for the current Beas user. *Type:* • Production *Beas 2025.06* ***See*** Production cockpit window *Beas 2025.06*
ChatGPT	
Token	Set token for the user. Alternatively, you can set it for all users in the Configuration wizard.

E-Mail tab

This tab contains email, server, port and user-password settings for the Beas user.



© 2026 Boyum IT Solutions A/S

Window system_ benutzer_ ousr_ smtp.psr

Functions

Field	Meaning
E-mail	E-mail address
SMPT-Server	Settings for outgoing server
SMPT-Port	Port number setting for the outgoing server
SSL / TSL	Setting for secure login
User	E-mail user name
Password	E-mail password

back to User administration

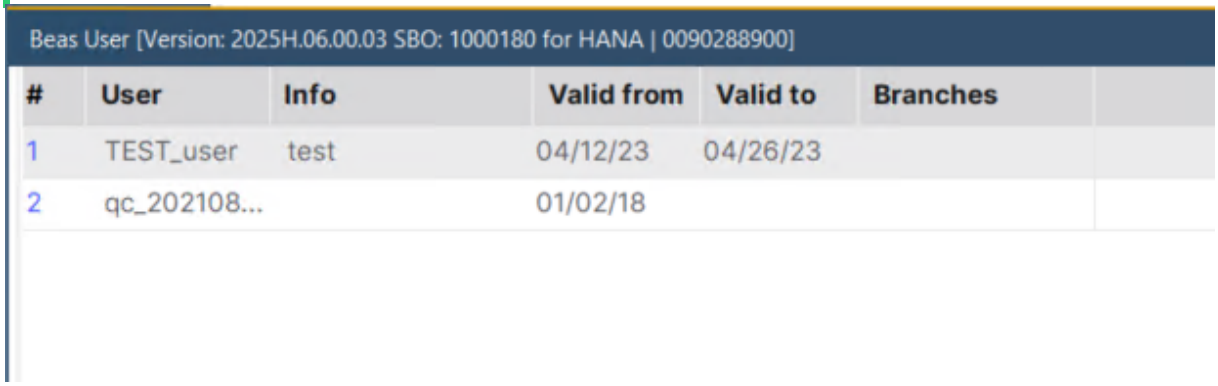
3.2.1.1.2 Beas User

User administration

Beas user

Edit Beas users

PATH: Administration > Setup > General > User (Beas) > **Beas User** button.



Window system_ benutzer_ browse.psr

List of all Beas users.

Here you can store a list of users having the right to log on without a SAP Business One license. Use this feature only if the user works with functions which do not need the SAP Business One – Data-API, like tie recording, calculation, production administration (without item management) or own AddOn-extensions.

© 2026 Boyum IT Solutions A/S

The logon with this user name is possible only if you start Beas directly as standalone, outside the SAP Business One - environment.

Accessing a SAP Business One – function, an automated log-on to DI-API is performed in the background with the user, who was stored in the Configuration wizard.

IMPORTANT:
For using the SAP Business One – DI-API you need one SAP Business One – license per user.

Note:
Accessing basic features of Beas you need a Beas basic license.
When using Terminal functions, you do not need a "Beas user". The logon is managed in Personnel administration.

Field Descriptions

Field	Description
User	User ID.
Info	Free text.
Valid	Period of validity from – to.
Branches	In which branch the user is located.

Functions

Function	Description
Open	Open the Editing window of the selected user.
User rights	Assign Rights to the selected user.
Add	Add new Beas user.
Remove	Delete selected entry.
Duplicate	Duplicate the selected entry. A new query pops up to enter new ID for it.

Window settings are available.

back to User administration

© 2026 Boyum IT Solutions A/S

3.2.1.1.2.1 Beas User: Edit

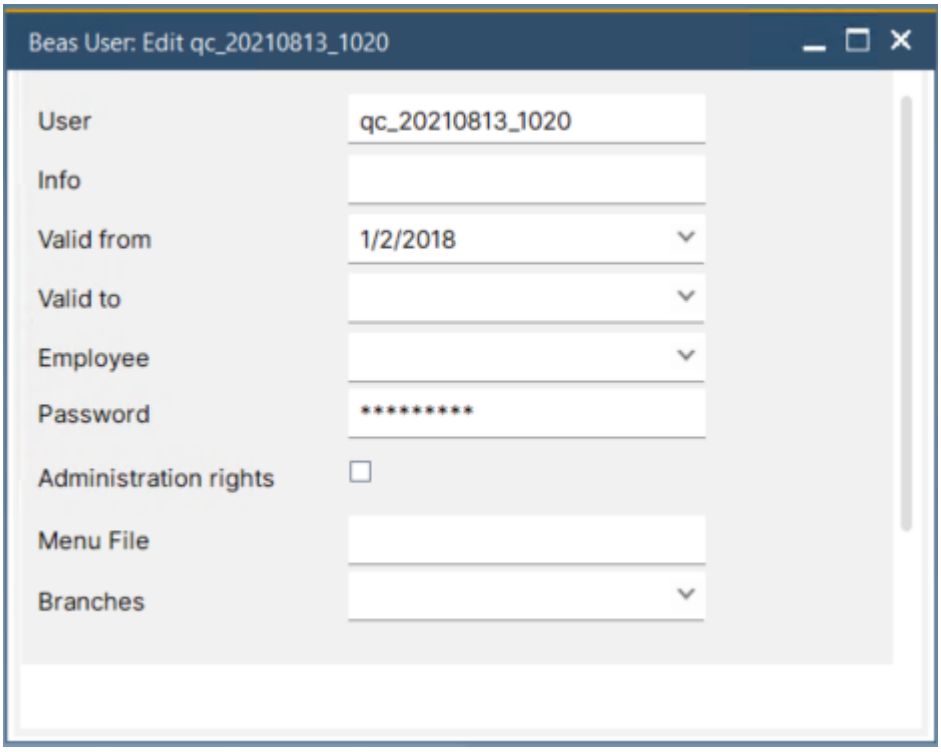
[User administration]

[Beas user]

[Edit beas users]

PATH: Administration > Setup > General > User (Beas).

1. click **Beas User** button.
2. click **Open**.



Window system_ benutzer_ edit.psr

This is an editing window for ONLY-Beas-users, without access to SAP B1.

Field	Meaning
User	User ID. Note: If the same user ID exists in SAP Business One – user administration, the SAP Business One ID has priority.
Info	Free text.
Valid	Period of validity from–to. Outside validity period you cannot logon.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Employee	Assignment to SAP Business One user. The DI-API–log-on uses this user. Note: This function is available for compatibility reasons only. One SAP Business One license per user is necessary when working with SAP Business One – functions.
Password	Password for Beas logon. There are no restrictions or rules.
Administration Rights	Check mark to grant administrative rights in Beas.
Menu File	Menu file for user If the menu type "beas 2009" is used, you can indicate a menu file to be started, allowing a separate menu for each user. **Setup:** 1. Rename and copy the file "menu.ini" to the project folder 2. Edit the copied file 3. File an be entered without indicating the path
Branches	Select the branches in which the user works. This can be used for generating templates and own lists.

Functions

Field	Meaning
Add	Add new user
Duplicate	Duplicate the selected entry. A new query pops up to enter new ID for it.
Remove	Delete selected entry.
Preceding entry	Switch to the previous entry in the list
Next entry	Switch to the next entry in the list
Last messages	Last messages

back to User list

3.2.1.1.3 Rights management

User administration

Extended: EMail Setup, User

© 2026 Boyum IT Solutions A/S

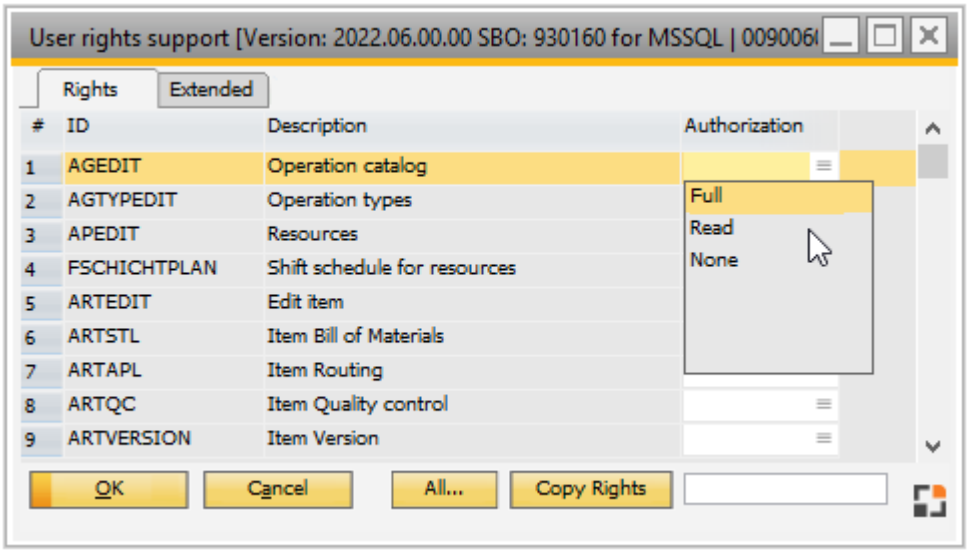
Beas user

Rights management

Beas has its own rights management, which needs to be set up parallel to SAP Business One

PATH: Administration > Setup > General > User (Beas).

1. Select user.
2. Click **Rights**.



Window system_benutzer_rechte.psr

Note: For many functions Beas uses the DI-API of SAP Business One. Therefore, Beas requires various SAP Business One rights.

See Required SAP-Rights.

The following possibilities are available:

None	Function blocked
Read	Reading rights, no changes
Full	Full authorization, change, delete, create new entries

Authorizations

Authorization	ID	Description
Operation catalog	AGEDIT	Authorization for window: Administration - Definition – Production – operation catalog.

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
Operation types	AGTYPEDIT	Administration – Definition – Production – Operation types. Administrate operation types, assign them to operations.
Resources	AGEDIT	Production – Resources ***See*** Edit resources. Administrate resources, assign them to operations. Administrate resource cost rates ***See*** cost rates.
Resources shift schedule	FSCHICHTPLAN	Administrate shift schedule
Edit items	ARTEDIT	Administrate item master data and warehouse rules (only Beas-item master) Authorization for Edit item master and price lists **Note**: for item view, the Beas authorization "edit items" is enough, To save items, additional SAP Business One authorization is required. Edit warehouse rules. ***See*** Warehouse rules.
BOM	ARTSTL	Administrate BoMs. This setting can be subdivided. Note Setting does not affect Precalculation and own created Crystal reports. Diverse functions are blocked, for example change of item group and material group. But it is still possible to change the group via SAP Business One item window and to get access this way. Accordingly, it is recommended to limit the user's authorization.
Routing	ARTAPL	Manage routings. ***see*** Extended tab and further notes on "Item BoM".
Item quality control	ARTQC	Item: assignment to QC-inspection plan to be used. ***See*** Item master – Quality control.
Customers	GPEDIT	Customer administration (view only, only Beas standalone).
Cost centers	KSTEDIT	Manage cost centers, assign to resources or personnel.

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
Material group	MAEDIT	Manage material groups, select via item master.
Unit of measurement	MEEDIT	Manage units of measurement, select via item master.
Cut-off	VERSCHN	Manage scrap/cut-off tables, select via item master.
Manufacturer	HEDIT	Manage manufacturers, select via item master.
Tool	WKSEDIT	Manage tools, assign to operations.
Cost types	TIMETYPE	Manage cost types, assign to resources and operations.
Production	FAEDIT	Access on work orders. Full access: User can create, delete, edit work orders e.g. via Work order list, Sales order, Sales order to work order Read access: User can view work orders No access: All access on work orders is locked
Production release	FARELEASE	Allows the release of work order positions With this option the user is allowed to change release options in work order positions: Approved Capacity planning Material planning Login to work order Material posting Allow changes These can still be adjusted directly via the APS list. If the option is disabled, the access changes in the work order position are locked, and in the APS list the respective buttons are hidden.
Production BoM	FASTL	Is the BoM displayed? (window and list)

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
		Only view is affected. Prints and reports as "Material requirement" are not affected. Extended rights settings are considered. ***See*** Extended tab.
Production routing	FAAPL	Are routings displayed? Only view is affected.Prints and reports as "Material requirement" are not affected. Extended rights settings are considered. ***See*** Extended tab.
Production closed release/post	FAABG	Determines the behavior for closed positions Is the user allowed to re-open a closed position or work order? For BoM positions the switch determines whether or not a posting may be performed via direct input (position number or bar code). Affected: only manual posting (Goods issue, Goods receipt). Possible only if activated in Configuration wizard. ***See*** Manual posting Configuration wizard - Material posting
Production request	MRPWORKORDER	Access on production request created in MRP, from which work orders can be created.
External operation purchase	FRBEST	Create purchases for external operations.
External operation provision	FRBEIST	Transfer provision parts for external operation to the supplier warehouse.
External operation goods receipt	FRWRG	Post in components from external operation.
External operation issue	FRAUSB	issue provision parts from supplier's warehouse.
Project	PRJ	Manage projects.
Project Basis data	PRJBASIS	Set up project basis data (tasks).
Project Template	PRJTEMPLATE	Set up project templates (structures).
Project Catalog	PRJCATALOG	Set up tasks catalog.

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
Post-calculation	FNAKA	Access on post-calculation for work orders. Affected - post-calculation via menu - work order item – Button post-calculation - post calculation view - production – calculation tab
MRP wizard	FBESTV	Access the MRP wizard Administrated the access to the MRP wizard and the order recommendation list. Read only: - MRP wizard: settings cannot be changed - Order recommendation list: Only view possible Note: In the MRP wizard further authorizations can be set up per scenario.
Create Purchase Order	MRPPURCHASE ORDER	Allow to create Purchase Order from MRP If active, the user can create purchase orders from purchase requests and via order recommendation. Note: The user needs full access to create a purchase request, because the purchase order is always created from a purchase request.
Create Purchase request	MRPPURCHASE	User can create a purchase request manually and change it The user can create or change their own purchase requests. Note: To manage all other purchase requests, the user needs access to "Manage purchase request" For creating purchase orders, the user always needs access to create purchase requests.

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
Manage purchase requests	MRPPURCHASE2	Access all functions in Purchase requests list Access all entries of all employees. Note: purchase requests and all other planned inflow and outflow are displayed in the order recommendation report. The same applies to the inventory history. This authorization does not affect the view in either function. **Special case: Order recommendation report** No authorization: User sees all order recommendations, but can change or delete only own entries.
Confirm (Time receipt)	FARUECK	Create time receipts to confirm order times.
Administrate time receipts	FAVERWALTEN	Administrate existing time receipts.
Confirm (time receipts) view	FAANSICHT	View existing time receipts.
Priorities	FPRIOR	Set up priorities for production
Calculation types	FCTYP	Capacity planning: set up calculation types in APS.
Interruption reasons	FSTILLSTAND	Administrate interruption reasons, select at time receipt.
Scrap reasons	FAUSSCHUSS	Administrate scrap reasons, select at time receipt.
Mile stones	FMILESTONE	Manage mile stones, select in operations.
Production pool	FPOOL	Access the pool list to distribute operation sequences to production pools.
Production list	FLISTE	Use production lists.
Production server	FSERVER	(only customization).
Internal and external maintenance	MAINTENANCE	Administration Maintenance-Master data maintenance plans.
Maintenance order	MAINTENANCE ORDER	Edit of the maintenance orders
Journal postings	JOURNAL	View journal entries for financial accounting in production (***see*** work order structure – orange barrel.

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
APS View	APS	View scheduling in APS.
APS scheduling	APSP	Administrate scheduling in APS (rough and detailed planning).
Precalculation	VORKALK	Access the Precalculation.
Calculation objects	KALKOBJ	Manage calculation objects for calculation schemas.
Batch-Precalculation	BATCHKALK	Access the batch-calculation.
Run batch Precalculation	BATCHKALKSTART	Full right required to start a batch calculation. Additionally, at least reading rights are required for the batch calculation itself (option above).
Stock revaluation	PRICEREV	Access in batch-calculation – result – stock revaluation. ***See*** Batch-calculation stock revaluation
Batch post-calculation	BATCHNKALK	Use batch-post-calculation.
QC order	QS-A	Edit QC orders register measurements. In Terminal mode this authorization is activated automatically.
QC orders archive	QS-R	Access closed QC orders.
QC inspection plan	QS-PLAN	Access inspection plans, assign to items or operations.
QC edit defaults	QS-TEXTE	Manage default texts ***See*** QC defaults.
Edit QC order	QS-AE	Change existing QC orders. ***See*** edit measurement position.
MM purchase order post in	MWEINGANG	Post in single purchase items.
MM manual transfer	MWBUCHEN	Post in / issue / transfer as single operation.
MM warehouse management	BINRIGHT	Set up warehouse master data.
MM booking bin locations	BINBOOKING	Access bin location management.
MW Journal	MWJOURNAL	Access stock movements report and posting documents via work order structure. ***See*** work order structure - postings

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
		warehouse management - inventory history - journal
MM batch reports	MWCHARGE	Access batch reports and Edit batches.
MM batches transfer	MWBTTRANSFER	Transfer item batches to other items.
WO backflushing booking	MWRETROGRAD	Issue material automatically for a work order. ***See*** Backflushing.
MM complaint	RECLAMATION	Access complaints.
MM Inventory	MWINVENTUR	Access inventory function (create and edit stocktaking).
MW Reservation list	MWRESERVATION	Display and manage reserved material.
MM Mobile input	POCKET	Only for old Mobile-System (do not use).
Terminal	TERMINAL	Access Terminal for factory data capture.
Personnel	PEDIT	Access on personnel master data Note: "extended editing rights" are considered only if the user has at least reading rights for the personnel master. Full access on the personnel master has a higher priority than extended editing rights. ***See*** Personnel master data Extended editing rights
Personnel editing rights	PACCESS	Access personnel master data Extended personnel authorization. On user level this defines which program area may be viewed or edited. Note: "extended user rights" are taken into account only, if the user has at least reading rights for personnel master. Full access on personnel master has a higher priority than the extended editing rights. ***See*** Personnel master data Extended editing rights
Currently present	PANW	View list of currently present employees.

© 2026 Boyum IT Solutions A/S

Authorization	ID	Description
Time evaluation	PZAUSW	Create time evaluations ***See*** Time evaluation.
Factory calendar	PKAL	Manage factory calendar, basis for shift schedule and resources.
FDC master data	ANW	Manage shifts, day templates, absence types.
Business performance	BAB	Access Business performance.
Product configurator	CAFT	Access product configurator.
User functions	EFUNK	Old function, visible only for compatibility reasons.
Change company	FAWECHSEL	Access the "change company" function.
Options	SOPTION	Several , for example Configuration wizard.
User administration	BENUTZER	Manage users.
Report settings	REPORTE	Access on report settings.
Reporte administrate	REPORTINSERT	Manage reports.
Language	SPRACHE	Manage languages.
WEB-APPS	WEBAPPS	Manage WEB apps.
WEB Berechtigung	WEB-ACCESS	Manage WEB app authorizations.
Import	IMPORT	Manage Import Definitions.
SQL-instructions	SQL	Execute SQL-statements directly.
Template, window settings	TEMPLATE	Template-administration, Window settings and Edit objects (Ctrl+Double click).
Database test	DBTEST	Run database test.
System	SYSTEM	Diverse system functions.
Debug	SYSDEBUG	Debug-window. Note: Beas-script is available. Everything can be executed.
Generate Item	SYSARTGEN	Access the function item generation.
Customized extensions	CUSTFEDIT	Manage customer specific extensions.
System programming	SYSFEDIT	Manage system specific extensions.
Cockpit - Production	CKPTPROD	Manage the Beas Production Cockpit.

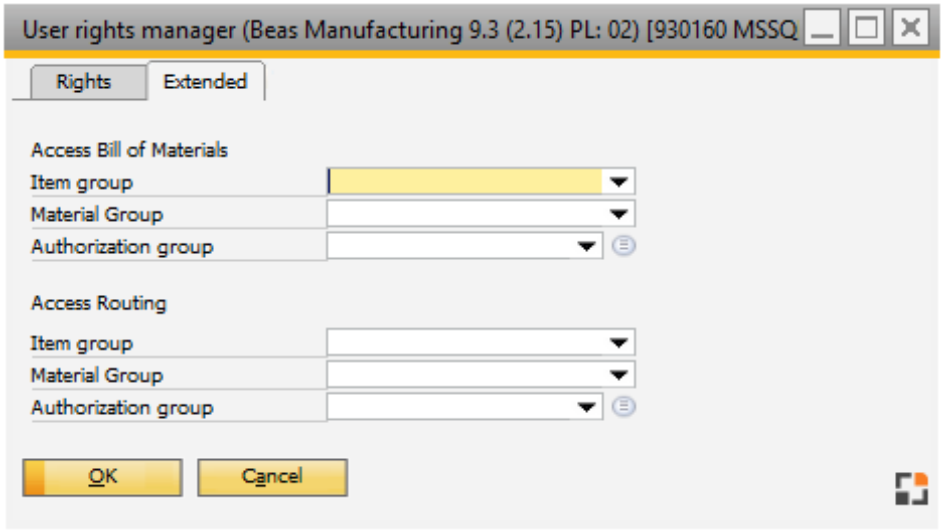
Extended tab

© 2026 Boyum IT Solutions A/S

Use this to determine whether the user has permission to view or edit BoMs and routings. Furthermore, you can set up, for which groups of items or material the users has a right to edit BoMs and routings. Currently, this setting applies only to the item master and not on work orders.

PATH: Administration > Setup > General > User (Beas).

1. Select user.
2. Click "Rights".
3. Select "Extended" tab in the opening "User rights manager" window.



system_benutzer_accessextented

You can select material groups and item groups which the employee can access. If nothing is selected, all entries can be accessed.

If a user has no right to access the routing or BoM, he may also not edit the item group and material group of the item (applies only in Beas item window)
In the Item Master, the BoM / routing tabs are hidden depending on the authorization. In the item structure view or in the structure report (Crystal document) only BoMs and routings are displayed, for which the user has authorizations.

The standard report “BoM single level” is generally blocked if the user does not have access to all items. Note: This limitation applies only if the standard report will be read in new (restore default). Own reports are not affected.

© 2026 Boyum IT Solutions A/S

There are other points in the program, where the BoM is recognizable as in the Order Recommendation Report, Precalculation and various other functions. For this reason it is very important to restrict the access to the necessary functions, in case the user shall not see this information.

Attention

A 100% secure protection cannot be guaranteed.

The following fields are available per BoM and routing:

Field	Description
Item group	Select item group.
Material group	Select material group.
Authorization group	Select authorization group. Note: Selection not yet supported.

- Known issues in authorization control

Beas requires special user rights to work properly with the functions of SAP Business One. ***See*** Required SAP Business One Rights

Terminal application

In the Terminal application, Beas logs on in the background using a central DI-API user, which is set up in **Configuration Wizard > System > DI API**. This user needs special rights. ***See*** Required SAP Business One Rights

The user who logs on to the terminal, does not notice the information. He only has a personal set of functions available. In case documents are generated, the personnel number is entered in [document-line table] `u_beas_pers_id`. Logging is based on which user created the document.

WEBAPPs

The WEBAPPs work the same way as the Desktop terminal.

Start **Beas without SAP Business One**

Beas can be started without SAP Business One. Then only selected functions are available in Beas. Use this if the user does not need SAP Business One functions.

see also

© 2026 Boyum IT Solutions A/S

User administration

3.2.1.1.3.1 Required SAP B1 rights

For many functions Beas uses the DI-API of SAP Business One. Various authorizations are required to run DI-API-objects. After a time receipt a journal entry is created. Accordingly, the user needs the authorization "create journal entries"

To make sure, that the user can execute all Beas functions, there are the following possibilities:

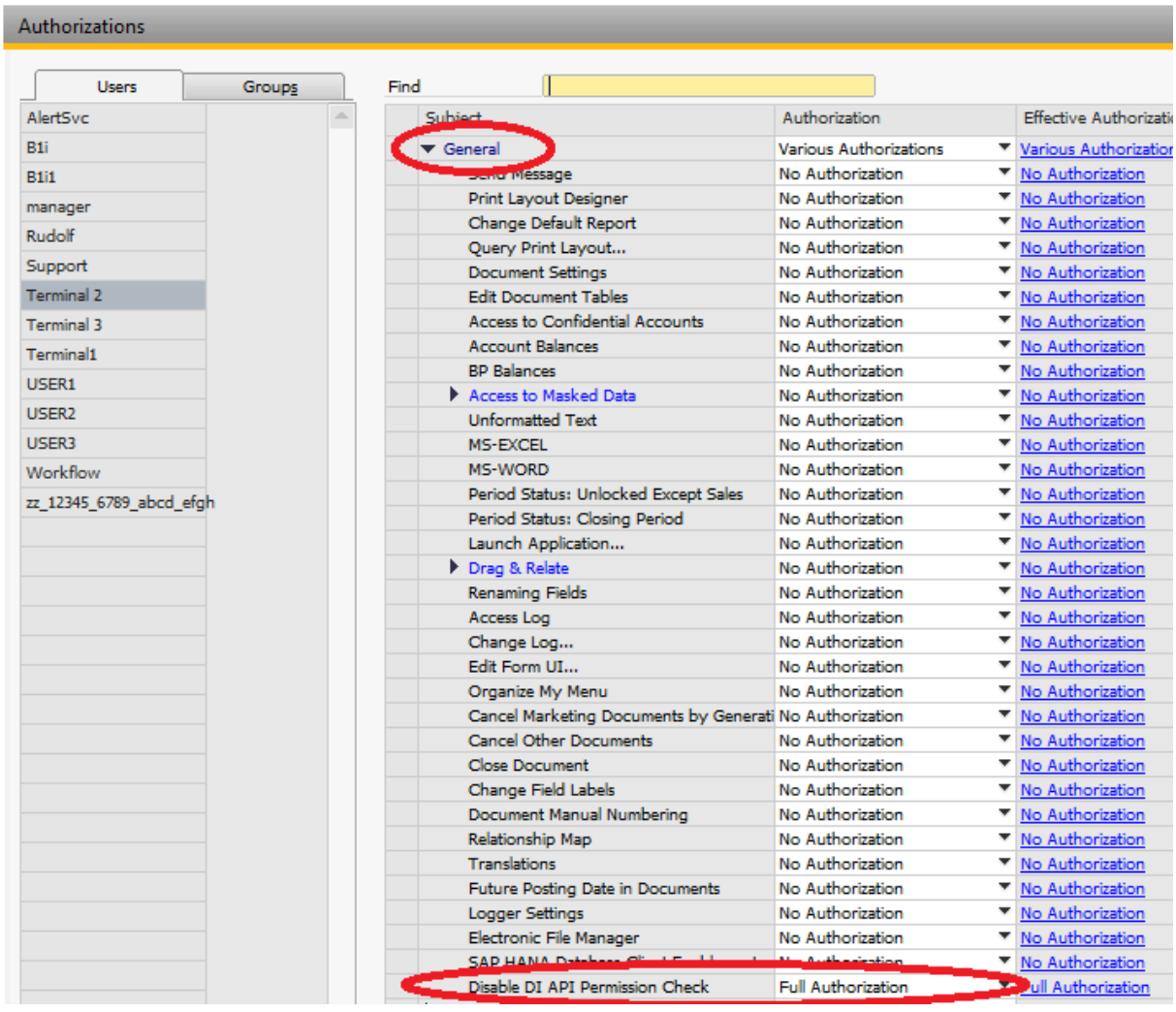
From SAP B1 Version 9.1

The user requires the following authorization:

Administration > System initialization > Authorization > General Authorizations

Select employee or authorizations group.

General Authorizations – last entry "**Disable DI-API-Authorization**" set to "full".



© 2026 Boyum IT Solutions A/S

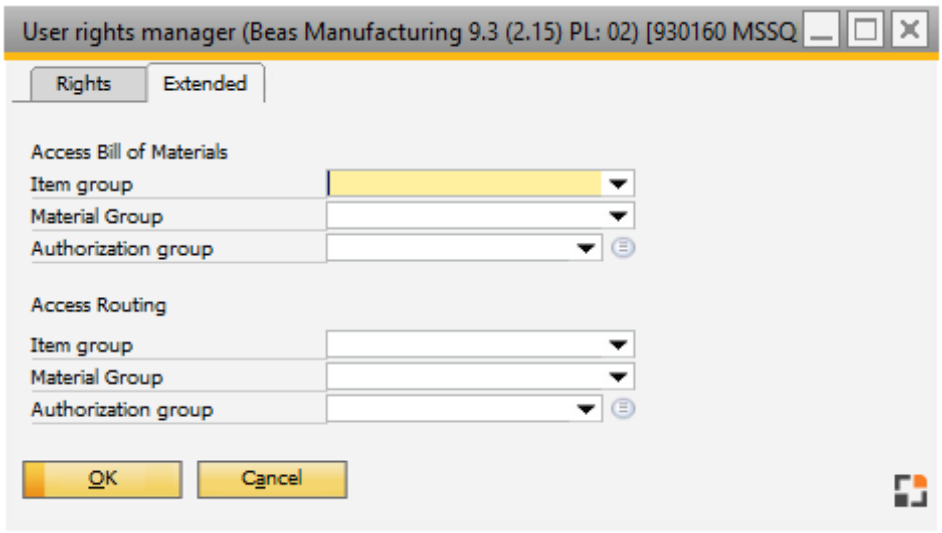
See Terminal

3.2.1.1.3.2 Rights extended

Use this to determine whether the user has permission to view or edit BOMs and routings. Furthermore, you can set up, for which groups of items or material the users has a right to edit BOMs and routings. Currently, this setting applies only to the item master and not on work orders.

PATH: Administration > Setup > General > User (beas).

1. Select user.
2. Click **Rights**.
3. Select "Extended" tab in the opening "User rights manager" window.



system_benutzer_accessextented

You can select material groups and item groups which the employee can access. If nothing is selected, all entries can be accessed.

If a user has no right to access the routing or BoM, he may also not edit the item group and material group of the item (applies only in Beas item window)
In the Item Master, the BoM / routing tabs are hidden depending on the authorization. In the item structure view or in the structure report (Crystal document) only BoMs and routings are displayed, for which the user has authorizations.

The standard report “BoM single level” is generally blocked if the user does not have access to all items.

© 2026 Boyum IT Solutions A/S

Note: This limitation applies only if the standard report is read as new (restore default). Own reports are not affected.

There are other points in the program, where the BoM is recognizable as in the Order Recommendation Report, Precalculation and various other functions. For this reason it is very important to restrict the access to the necessary functions, in case the user shall not see this information.

Attention:

A 100% secure protection cannot be guaranteed.

The following fields are available per BOM and routing:

Field	Description
Item group	Select item group.
Material group	Select material group.
Authorization group	Select authorization group. Note: Selection not yet supported.

3.2.1.2 Languages

Languages – Definition of SAP Business One is extended by the Beas button "**Extended**".

This is to define the format of numbers and dates to be issued on documents.

See Languages – Extended.

Officially supported languages:

German
English
French
Italian
Simplified Chinese (P.R. China)
Spanish (Spain)
Portuguese (Brazil)

A number of other languages are available and supported by Partners.

In case there is a problem with a language or you need a new language, please inform our support.

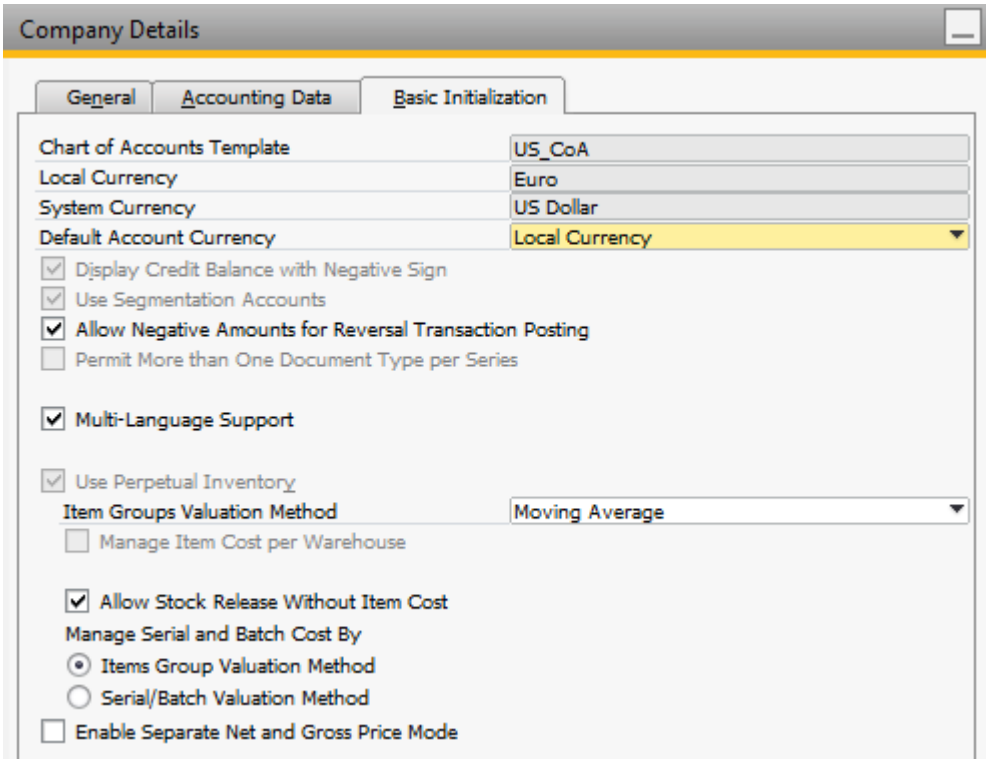
© 2026 Boyum IT Solutions A/S

3.2.1.2.1 Date and Number Format

Date and number format control only works in marketing documents.

The settings are stored under **Administration > System Initialization > Company Details > Basic Initialization**.

For more information ***see*** SAP Document Print solution.



Window beasgui_sbo.psr

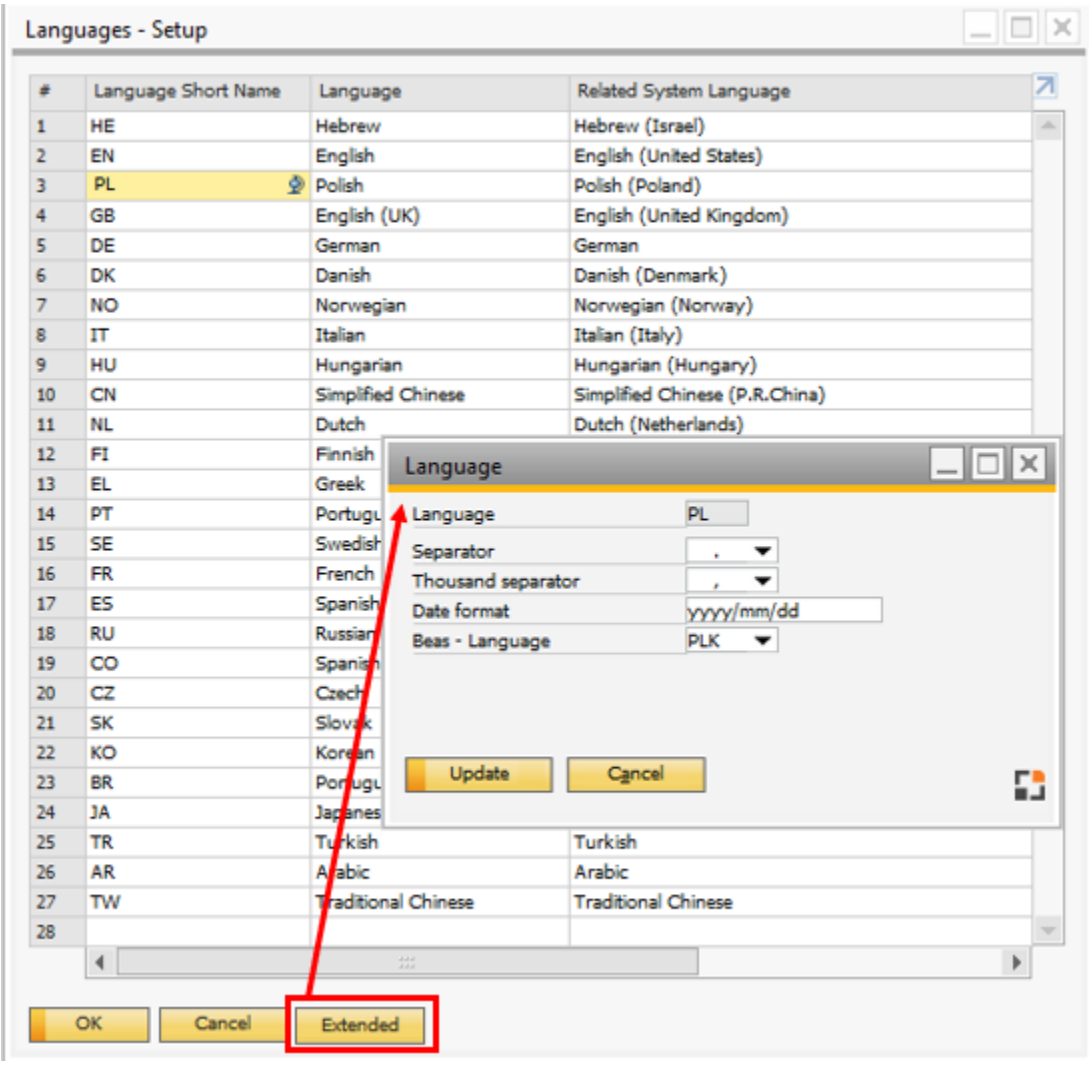
Attention: Activate the multilingual feature here. Then restart SAP. Important: Restart – do not change company!

The "**Extended**" button is now available for the languages.

The extended settings can now be configured.

PATH: Administration > Setup > General > Languages > click **Extended**.

© 2026 Boyum IT Solutions A/S



Window_system_sprachen_erweiterung.psr

Field descriptions

Name	Description
Separator	Separator for decimal places
Thousand separator	Thousand separator
Date format	Format for date output d = day, one-digit dd = day, two-digit dddd = day, written – system language only m = month, one-digit mm = month

© 2026 Boyum IT Solutions A/S

Name	Description
	mmmm = month, written – system language only yy = year, two-digit yyyy = year, four-digit e.g. yyyy/mm/dd = English format dd.mm.yyyy = German format
Beas language assignment	Beas has dynamic translation tables. Their identification differs party from the language identification in SAP. You can set the assignment here.

3.2.1.3 Translation (Beas)

Beas is equipped with a translation module.

PATH: Administration > Setup > General > Translation (Beas).

The Beas interface is delivered in German and English. The English translation list is imported automatically.
Additional languages can be imported manually. These will be updated automatically.

If you start Beas inside SAP Business One, Beas use same language as used in SAP Business One
If you start Beas without SAP Business One, Beas use the current windows regional settings
if you start Beas in terminal mode, Beas use the language defined in human definition

if you edit a number, date or time field, Beas always uses the Windows Regional Settings.

- More information

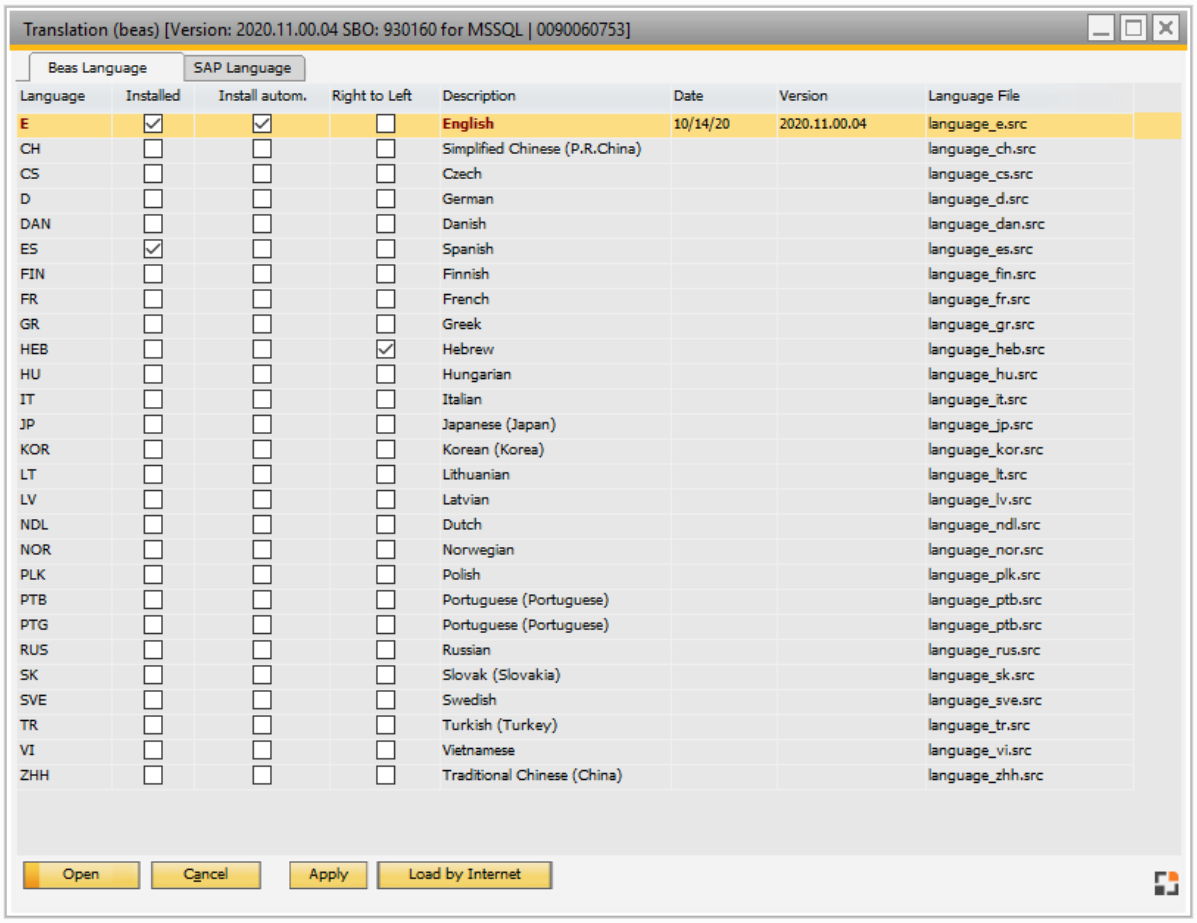
In Windows regional settings you can define the time and date formats.
Beas uses these for input fields and view if you start Beas outside SAP Business one or the time format is not defined in the translation table.

Differences
Beas does not accept ' or "
in Beas 9.3 PL 0 or older an error message is displayed if you use the ' sign.

© 2026 Boyum IT Solutions A/S

In Beas we have the following definition:
h, hh = hour
m, mm = Minute
s, ss = seconds
AM/PM or tt: Display AM or PM
If you use other AM/PM symbols: Beas ignores this.

You can overwrite the standard translation (Edit Translation > Translation)
or you can define own translation or message (Beas AddOn administration)



Window system_spr_browse.psr

Beas languages tab

Field	Description
Open	Edit selected language.
Cancel	Close window without saving changes.

© 2026 Boyum IT Solutions A/S

Field	Description
Apply	Set up the selected language for testing purpose. Note: printing documents or evaluations, the language is reset to Window-settings.
Download from Internet	The current version of the selected language is downloaded from the Beas internet portal. You need this if new language definition is available, for example: if you help to work on the translation. NOTE: In every Beas Version the last translation file is inside. Normally, there is no need for this function. The program needs access to http:\\www.beascloud.com. If this is not working, check your firewall setting. NOTE: THIS IS AN HTTP CALL. For this action Beas installs a new .src file in the C:\program filex (x86)\beas software\beas\program folder. For this Beas needs administration rights. --- You must **START BEAS IN ADMINISTRATION MODE.**
Reset	Reload all language settings and translation table. Use this if Beas delivers a new language and it is not displayed in your list.

SAP Language tab

Field	Meaning
Description	Language name
Windows	Language ID in Windows
Beas language	Language ID in Beas
B1 Number	Language number in SAP Business One
B1 enum	Linkage SAP Business One-language to Beas-language

Because SAP Business One supports more languages than Beas, a 1:1-linkage is not possible. For this reason in a translations table the links between SAP Business One and Windows language settings and Beas language settings are defined.

© 2026 Boyum IT Solutions A/S

This table is defined in the file system_language.ini which is read in at new installation and upgrade. It is available under Language / SAP Business One language.

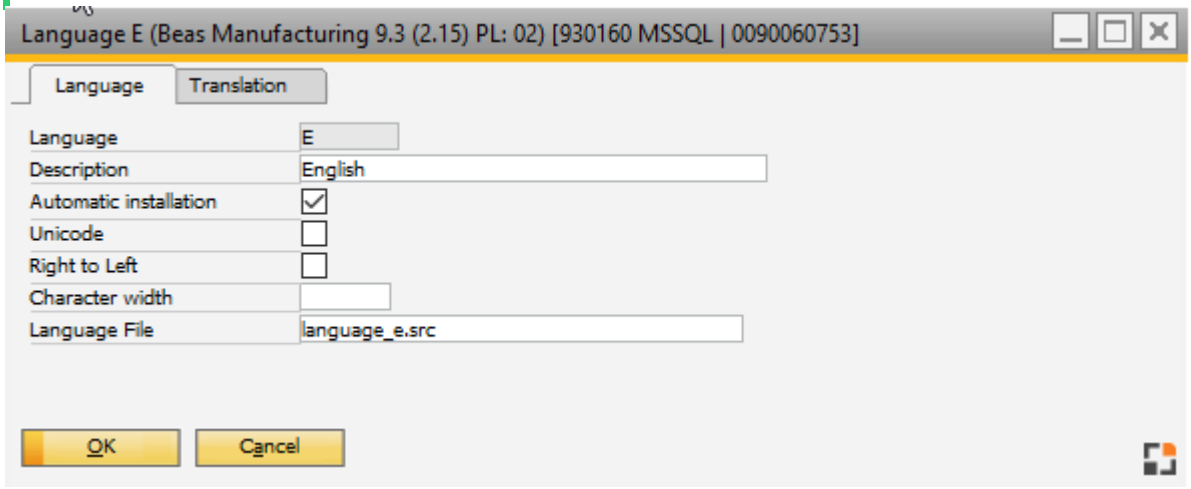
Default: Button is used to reset to default settings.

Beas translation system

3.2.1.3.1 Language/translation edit

In this window you can edit/change a translation.

PATH: Administration > Setup > General > Translation (Beas) > **Open** an entry.



Window system_spr_edit.psr

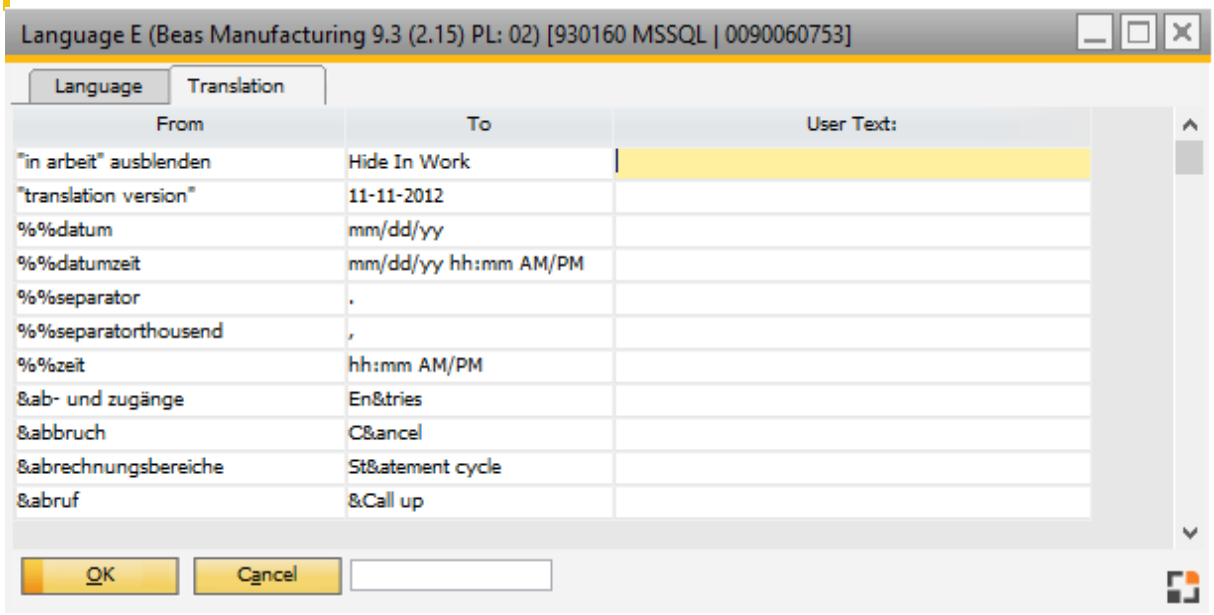
Field	Meaning
Language	Info is used in this language.
Description	Name of the language.
Automatic installation	Beas imports the language after the automatic update. You can activate/disable this function.
Unicode	Info: language needs unicode font.
Right to left	Info: right to left language?
Character width	You can define a fix width for every letter (***example*** for Chinese font).

Translation Tab

© 2026 Boyum IT Solutions A/S

In the "Translation" Tab you can overwrite the standard translation. Your own translation is saved in the current database.

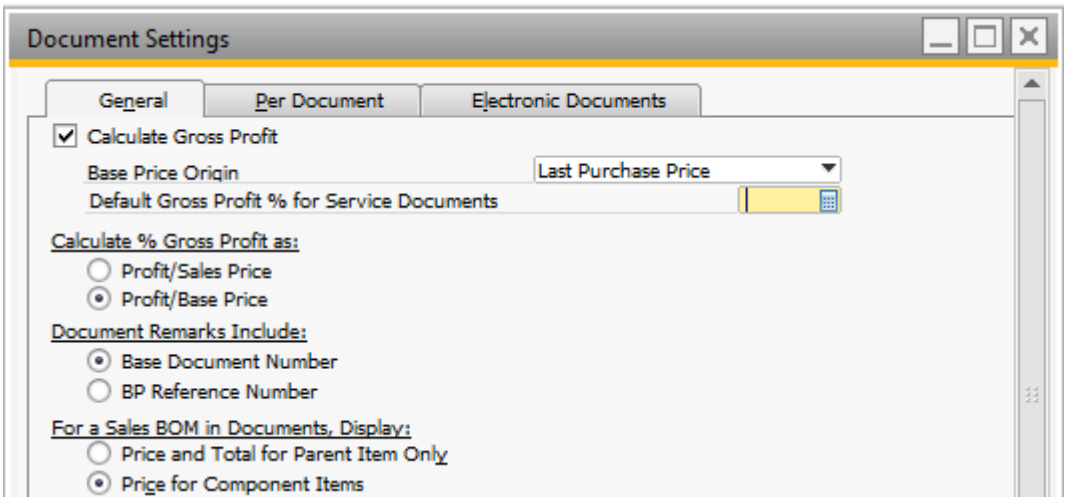
Note: Words starting with %% are not changeable.



Window system_sprachen_browse.psr

3.2.1.4 Document settings

For details on this window: ***See*** SAP Business One documentation.



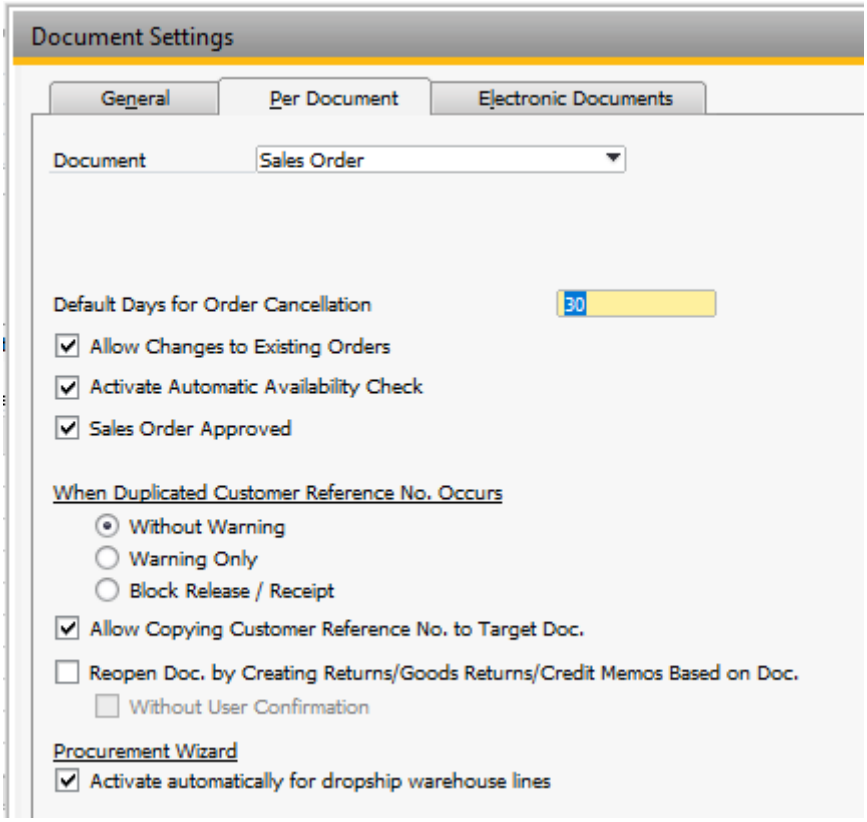
For additional information to these settings ***see***

Per Document

© 2026 Boyum IT Solutions A/S

3.2.1.4.1 Per Document

Additional information to Document Settings - Per Document.



Setting	Description
Activate Automatic Availability Check	This function opens an Availability Check. But this ignores Reservation and Work orders - it is not recommended to be used. Alternative information is - Item History: Check all Stock- and Reservation informations a) Real time b) With more information related to last MRP run - CTP / ATP: calculate Availability and Delivery time based on Resource planning and Material availability Note: If you activate this setting, the Product configurator can't change the description in the sales order.

© 2026 Boyum IT Solutions A/S

3.2.2 Financials

PATH: Administration > Setup > Financials.

GL Account Determination

3.2.2.1 GL Account Determination

GL Account Determination is supported by Beas

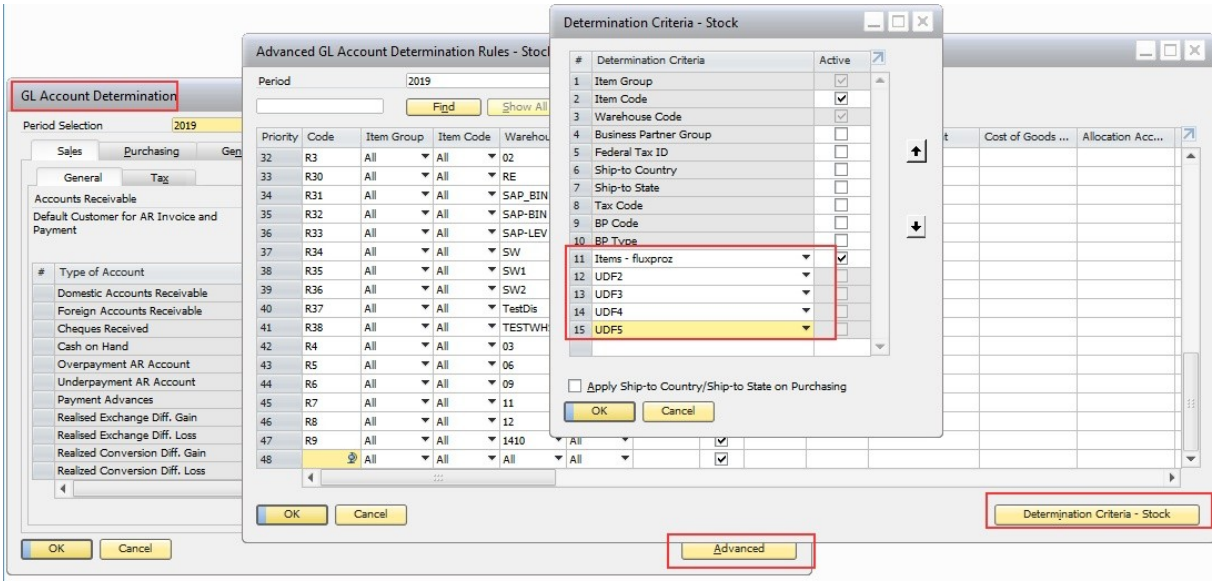
PATH: Administration > Setup > Financials > G/L Account Determination.

Advanced GL Account Determination Rules:

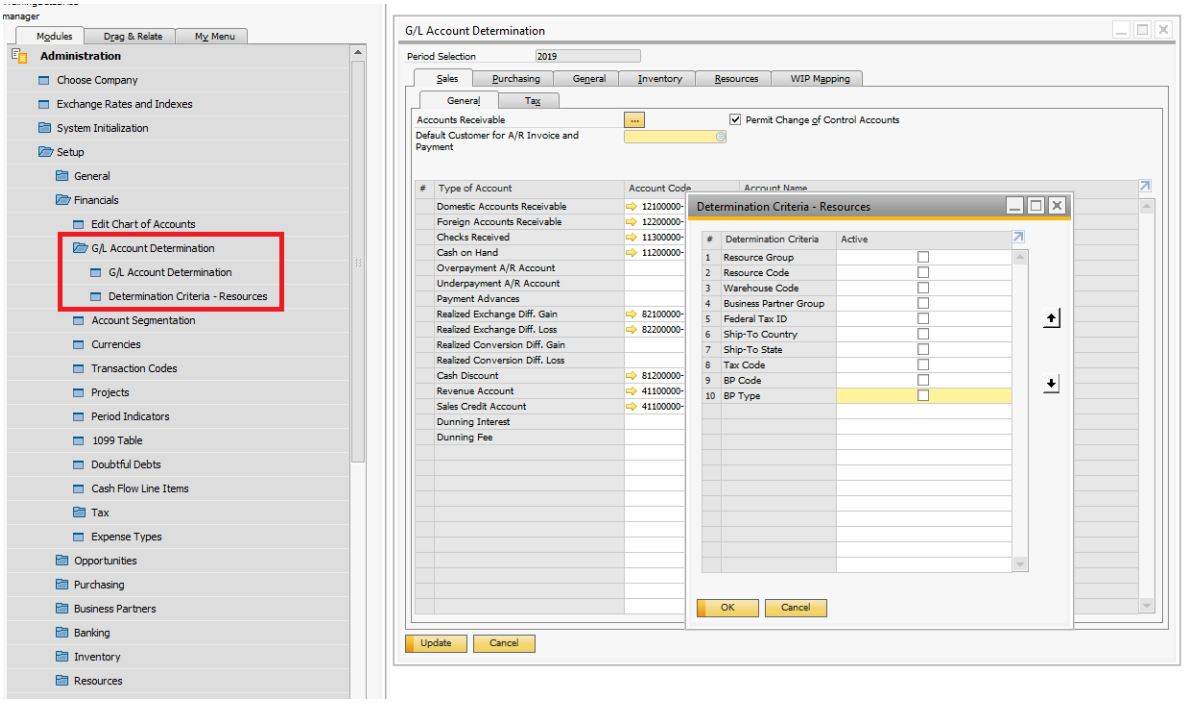
Default settings: Code, Item Group, ItemCode and Warehouse are supported.

Note: Determination Criteria – Additional fieds e.g. UDF 1–5 are not supported. In an attempt to use them, the following error message appears in Production transactions:

Error: (-10) 234109545 - Enter valid code [JDT1.ContraAct][line: 4] , SYS_xxxx



© 2026 Boyum IT Solutions A/S



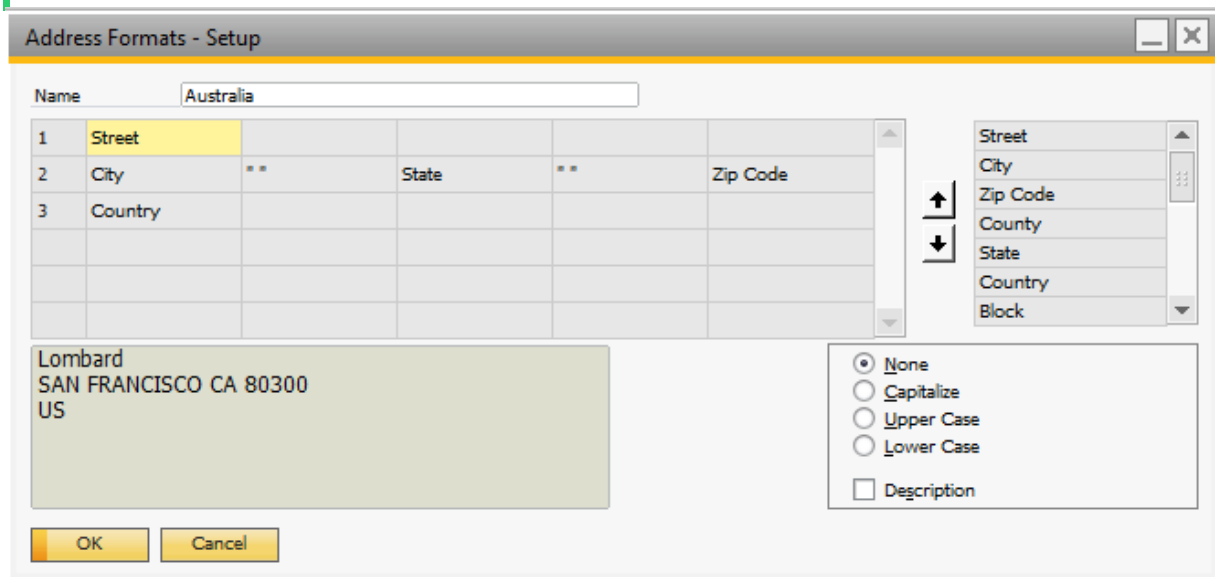
3.2.3 Business Partners

3.2.3.1 Address Formats - Setup

In SAP Business One you can define the Address format:

In some areas in Beas must create the Address text itself and support most definitions from

PATH: Administration > Setup > Business partners > Address format



Window beasgui_sbo.psr

Supported fields:

© 2026 Boyum IT Solutions A/S

- Street
- Address 2
- Address 3
- City
- Post Code
- County
- State
- Country
- Block

Supported functions:

- Display Description for Country Name
- Capitalize only first letter
- Upper case
- Lower case

Note: All other additional functions and fields are not supported.

3.2.4 Inventory

PATH: Administration > Setup > Inventory.

Generate Item Overview
Material Group
Units of Measure

3.2.4.1 Generate Item Overview

When creating a new item, Beas can generate the item number automatically, use any item as a template and also predefine the description as well as any additional fields. Item generation becomes active during new item creation and copying of items.

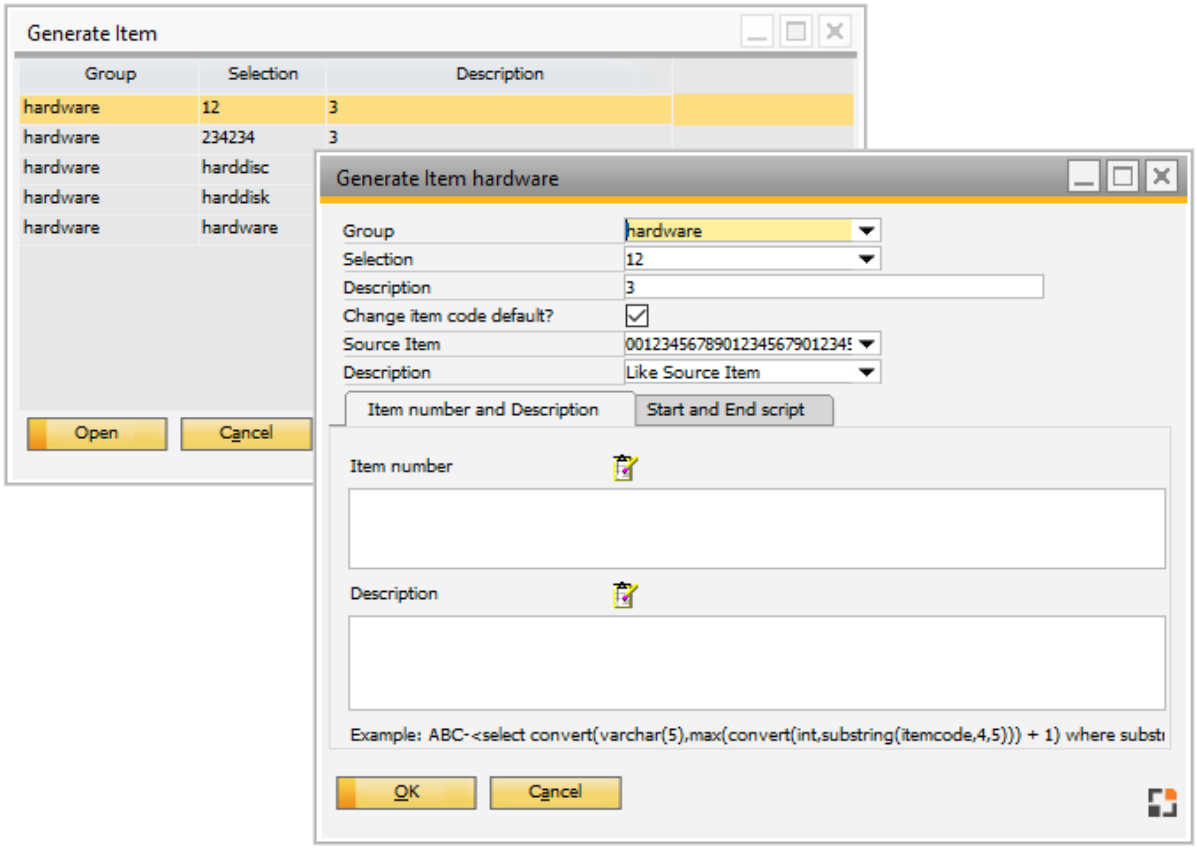
PATH: Administration > Setup > Inventory > Generate item.

You can use it for:

- Definition of Templates
- Item Number generation

Needed Access: Generate Item *(SYSARTGEN)*

© 2026 Boyum IT Solutions A/S



Window artikel_artgen_edit.psr

Activate Item generator

Define the generation of items to activate this function. Then, creating new items or copying additional fields are available (only if this is done in Beas) To set up, knowledge of BeasScript is required.

Item generation works on 2 levels: "group" and "selection". For group selection, more than one group need to be defined. Before and after items are created, scripts can be executed.

Example

```
Hardware -> Computer
Hardware -> Printer
Software -> Office
Software -> Games
(...)
```

Example: Use algorithm with rules to generate items

© 2026 Boyum IT Solutions A/S

Important: direct access to all fields. For SAP Business One fields the content is not checked. Entering an illegal value, can result in the item not to be useable.

In the list all set up item generation methods are displayed. Entries can be edited, copied and deleted.

Button	Meaning
Open	Edit the entry, Editing window opens.
Add	Create a new generation method – Editing window opens.
Remove	Delete an entry.
Duplicate	Duplicate an entry.

Window to create new items (also manually)

3.2.4.1.1 Generate item

When creating a new item, Beas can generate the item number automatically, use any item as template and also predefine the description as well as any additional fields. Item generation becomes active during new item creation and copying of items. In this window it is possible to define all rules.

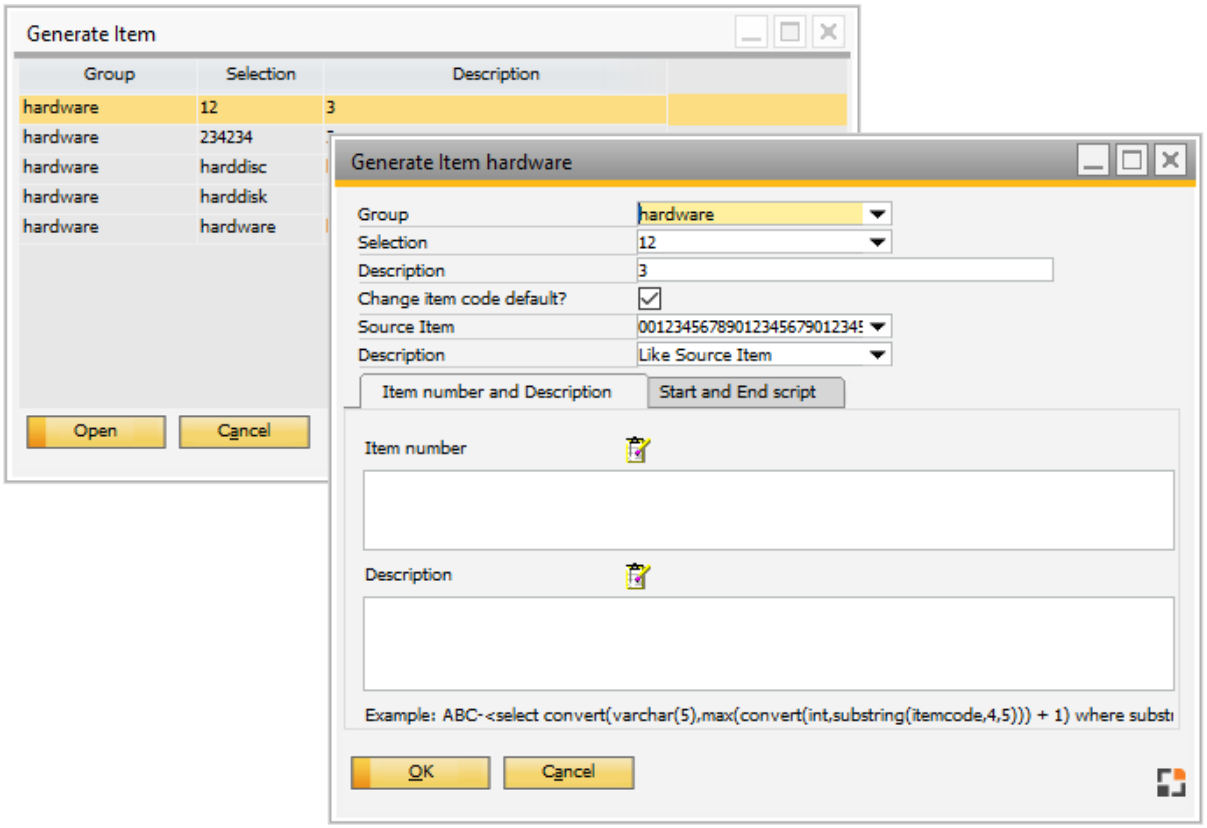
PATH: Administration > Setup > Inventory > Generate item >"**Add**" function.

You can use it for:
- Definition of Templates
- Item Number generation

Needed Access: Generate Item *(SYSARTGEN)*

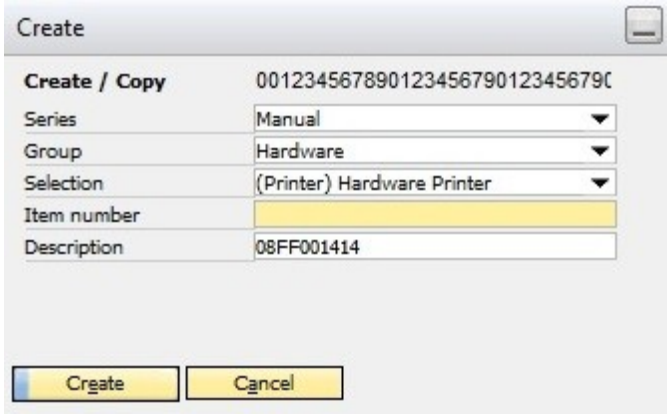
See Create new items

© 2026 Boyum IT Solutions A/S



Window artikel_artgen_edit

Header

Field	Meaning
Group	Define a group to select from (optional) If a group is defined, Beas will display the field "Group" in item creation window  *Window artikel_new.psr*

© 2026 Boyum IT Solutions A/S

Field	Meaning
	You can use this generate an item. Together with "Selection" it is possible to perform a 2 level item generation. You can select an existing group or you can insert a new group directly.

Selection	Definition of group selection. Input mandatory. Select from groups.
	Define the second level of item generation.
	It is automatically activated if a group has more than one selection. In this case, it is possible to make a selection for the chosen Group.
	Example
	`Hardware -> Computer`
	`Hardware -> Printer`
	`Software -> Office`
	`Software -> Games`
	`(...)`

Description	A further description of the selection can be entered. Upon creating a new item, the selection is displayed in brackets, followed by the designation.
Item no. changeable?	Check box defines if it is allowed to change the item code. Activate to make item code changeable.
Source item	You can select a source item to use as default (as template).
Description	Types of description: - like source item - manual input at new creation - automatic generation

Tabs

Tab	Meaning
Item number and description	Determines structure of item number and description.
Start and End script	You can deposit a script which will be executed at selection, start and end of item creation. You can use it to predefine the description or item number (temporarily saved in a variable).

© 2026 Boyum IT Solutions A/S

Item number and description tab

Field	Description

Item Number	Text and placeholder describing the structure of the item number
	
	Example:
	`ABC-<time,hhmmss>`
	Creates an item number with ABC-[time], ABC-100520
	or
	`AA0<select CAST(Coalesce(max(CAST(substring("ItemCode",4,8) AS decimal(10,0))),0)+1 AS varchar(8)) from "OITM" where substring("ItemCode",1,3)='AA0' and Length("ItemCode") =8%,padr 0=5>`
	creates item number AA000001, AA000002, ...
	
	Also possible: in tab `Start and end script` in field "script at selection"
	build up the item number in advance with BeasScript `select CAST(Coalesce(max(CAST(substring("ItemCode",4,8) AS decimal(10,0))),0)+1 AS varchar(8)) from "OITM" where substring("ItemCode",1,3)='AA0'`
	
	`setvar=ls_itemcode=AA0<wert1>`
	
	enter variable in field item number
	`<ls_itemcode>`
	
	Example
	for item generation:
	Item number "A00" + an 8-digit consecutive number should be generated:
	
	`AA0<select CAST(Coalesce(max(CAST(substring("ItemCode",4,8) AS decimal(10,0))),0)+1 AS varchar(8)) from "OITM" where substring("ItemCode",1,3)='AA0' and Length("ItemCode") =8%,padr 0=5>`

Description	If the description is to be generated, define with placeholders: `hello world` → In description field this text would be entered.

Start and End script tab

© 2026 Boyum IT Solutions A/S

Field	Description
Script at selection	You can enter a BeasScript to be executed at selection of new item creation. In this way, item number or description can be generated in advance. To cancel the process: return false.
Start-Script	This script is called after clicking the New / Copy button, but before the item is copied. Reading and writing access on the variables: `itemcode_from` from which the item is copied `itemcode_to` target item number ***Example***: `setvar=itemcode_to=11134` The item number is changed. Jump back by `return false` to cancel the process.
End-Script	This script is called after copying. Subsequently BoM or routing positions can be matched. The created item is in variable `itemcode_to` After copying has finished, it jumps back with `return false` having no effect.

back to Generate item overview

3.2.4.2 Warehouse rules

This window lists all the rules you can define to which warehouse, bin code or / and production line the system must use for:

- Quality Control - Transfer process
- Work order

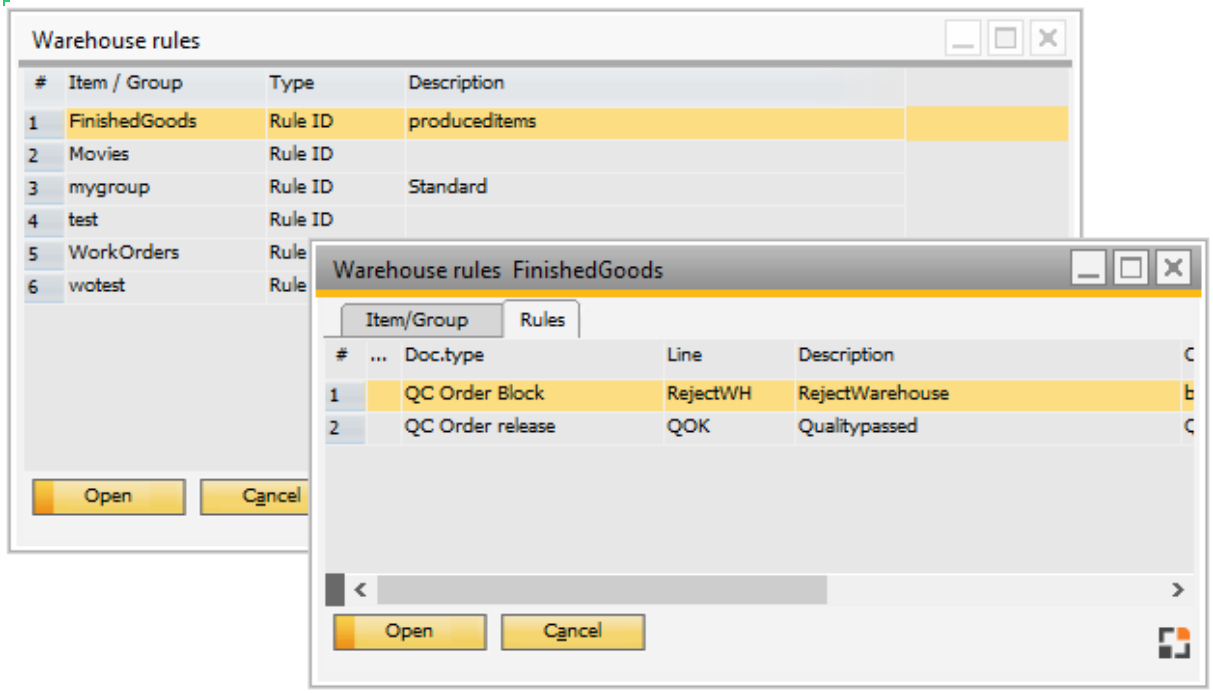
A rule can be defined for

- for one item (if rule only valid for this item)
- as "Rule - ID", if valid for different items. In this case you can define the Rule-ID inside the item master data

VIDEO: Using Warehouse rules in Work orders:

© 2026 Boyum IT Solutions A/S

PATH: Administration > Setup > Inventory > Warehouse rules



Window bin_owhs_bindefine_browse.psr, bin_owhs_bindefine_edit.psr

Item/Group tab

Field	Descripton
Type	Select type: Item number or Rule ID
Rule ID/Item Number	- **Rule ID**: You can create a rule group for an item, referring only to this item. Or, define a group rule and store in the item. ***See*** Edit item – Inventory data. - **Item Number**: With this selection, the rule is linked to the specified item code. The item rule has a higher priority. For editing, you need the authorization to edit items. ***See*** Authorizations.
Description	Free text.

Rules tab

In this Tab you can see all defined rules.

A rule has 3 Areas:

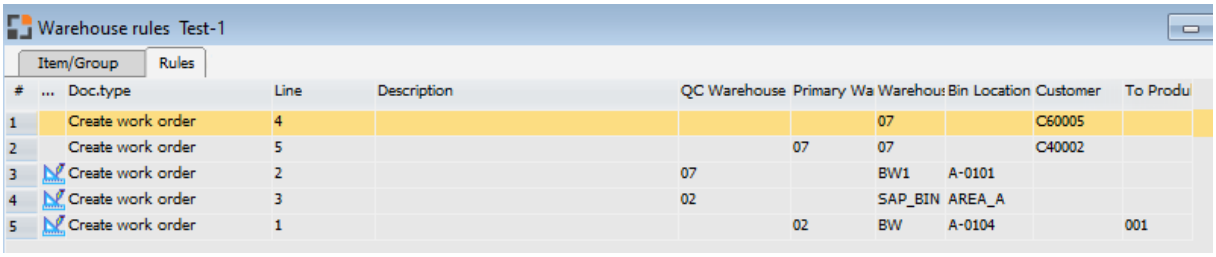
- The Description (Line, Description, Image, Color)

- The Definition when the system has to use it (for Doc.Type, QC/Sales order Warehouse, Primary Warehouse)

© 2026 Boyum IT Solutions A/S

- The Warehouse/Bin code which the system has to use if the Rule is valid.

It is possible to define more than one Rule inside one Warehouse rule.
The system checks the rule line by line from top to bottom, and uses the first valid rule.
You can change the order of rules with Drag and Drop.



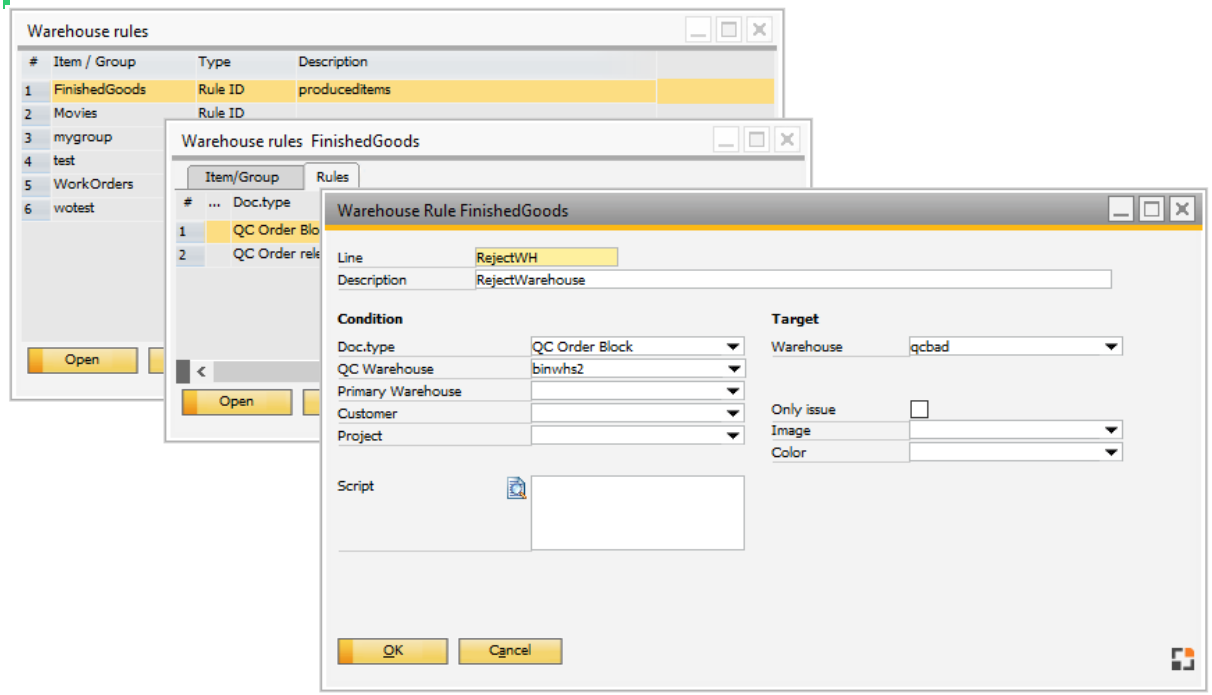
bin_owhs_bindefline_browse

For more information ***see*** Field Descriptions.

3.2.4.2.1 Warehouse rules - Edit

In this window you can edit warehouse rules.

PATH: Administration > Setup > Inventory > Warehouse rules > Rules tab > **Open/Add** an entry > Rules tab.



Window bin_owhs_bindefine_edit.psr

© 2026 Boyum IT Solutions A/S

VIDEO: Using Warehouse rules in Work orders:

Rule description – Condition

Field	Meaning
Line	Line Number (or identity for this line)
Description	Description of rule group. Displayed in various windows.
Doc. type	Rule applies for the displayed document type. Document types **QC-order Release**: QC-Order – Release goods via transfer. ***See*** QC-transfer. **QC-order Block**: QC-Order – Block goods via transfer / issue. **Create work order:** The field "Origin Warehouse" is displayed. (***see*** below)

Origin Warehouse	Define source warehouse
	From Sales order and Pre Invoices
	Empty: Ignore the warehouse from sales order.
	Defined: Use this rule only if the same warehouse is defined as in the used sales order.
	
	For sub assemblies:
	Empty: Ignore
	Defined: Use this rule only if the same warehouse is defined as in Bill of Materials.
	
	Example
	`Assembly A`
	`  Bill of Materials B (order related Assembly) on Warehouse 07`
	
	The system must create a work order position for order-related sub-assembly "B" and checks all warehouse rules, on which this field is empty or "07".

© 2026 Boyum IT Solutions A/S

Primary warehouse	Default warehouse for the item. Rule applies only if the warehouse defined here matches the standard item warehouse. ***See*** Item master – Inventory data.
Customer	Rule applies only for given customer.
Project	Rule applies only for given project.
Only with QC	If active, the rule applies only if a QC-order was stored. Affects only document type "production create new". If enabled, the rule applies only if in work order position a QC order was stored.
Image / Color	Icon and color for this entry.

Rule execution – Target

Field	Meaning
Warehouse	Which warehouse to use.
Bin location	Which bin location to use. Beas/SAP/WMS Bin managed warehouses supported.
Production Line	Define WMS production line that can be linked to work orders. Field is only visible when Document type is **Create work order**. **Automatic assignation:** The WO position is updated automatically if this linked field is changed. ***See*** also Warehouse Master, Resource Master.
Script	Use script for a more precise definition. ***See*** Script.

Script

Available variables

Variable	Meaning
`e_itemcode`	Item number
`e_cardcode`	Business partner
`e_fromwhscode`	Source warehouse, e.g.

© 2026 Boyum IT Solutions A/S

	- QC warehouse at transfer - Warehouse from Sales order - Warehouse from related Bill of Material position, if order related assembly
e_doctype	The document type: WONEW -> Work order Main assembly WOSUB -> Work order Sub assembly

You can define the following variables:

Variable	Changeable	Meaning
rule.whscode	x	Target warehouse
rule.bincode	x	Bin location
rule.description		Description
rule.onlypostout	x	For QC-transfer:1 = only issue, 0 = transfer (eg. at QC order - transfer)
rule.wms_prodline	x	Production line (only if WMS is installed)

Example:

Use always same warehouse as target warehouse

```
// in rule.whscode the current warehouse is saved. Overwrite self, then the
system take it.
setvar=rule.whscode=<e_fromwhscode>
```

For sub-assembly always use the warehouse defined in Bill of Materials

```
if <e_doctype> = WOSUB then
  setvar=rule.whscode=<e_fromwhscode>
end if
```

As warehouse, always use the origin warehouse of the main assembly

```
if <e_doctype> = WONEW then
  setvar=rule.whscode=<e_fromwhscode>
end if
```

Transfer always to warehouse 02-005, if linked to business partner C001

```
if <e_cardcode> = C001 then
  setvar=rule.whscode=02-005
end if
```

If a work order is created from a sales order, use the warehouse stored at the moment

© 2026 Boyum IT Solutions A/S

```
// 139 = customer order
// item 38 = the grid, col 24 = warehouse field
if  <sys_formtypeex> = 139 and <itemuid> = 38 then
  setvar=rule.whscode=<item.38.col.24>
end if
```

If a work order is created from a sales order to production order screen, use the warehouse stored at the moment

```
if  <form.name> = fert_kdauftrag_zu_fertauftrag then
 setvar=rule.whscode=<e_fromwhscode>
end if
```

Remove: Right-click function to delete the current warehouse rule.

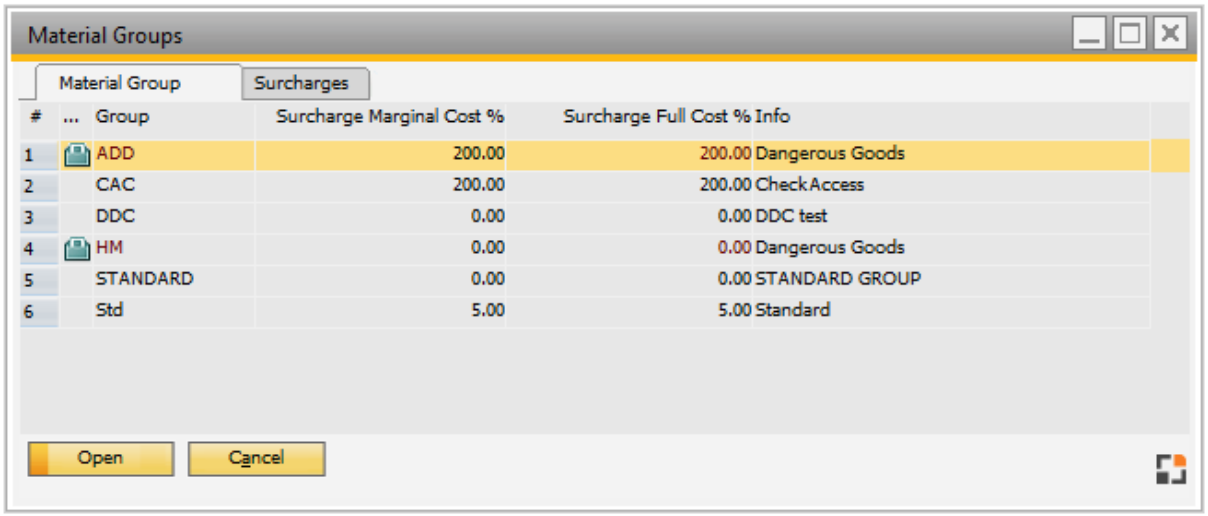
3.2.4.3 Material Group

Items can be arranged through material groups. In the material groups, the material surcharges and group specific surcharges can be stored for the calculation.

MASTER DATA SETUP: Material Groups must be created before they are assigned to items.

PATH: Administration > Setup > Inventory > Material Group

ALTERNATIVE PATH: Item master data extended screen > Click on the list button right next to Material Group field



Window basis_materialgruppe_browse.psr

Description of tab

Tab	Description
Material Group	List of all defined material groups. For field descriptions ***See*** Edit material group.
Surcharges	Calculation schema-dependent surcharge management .

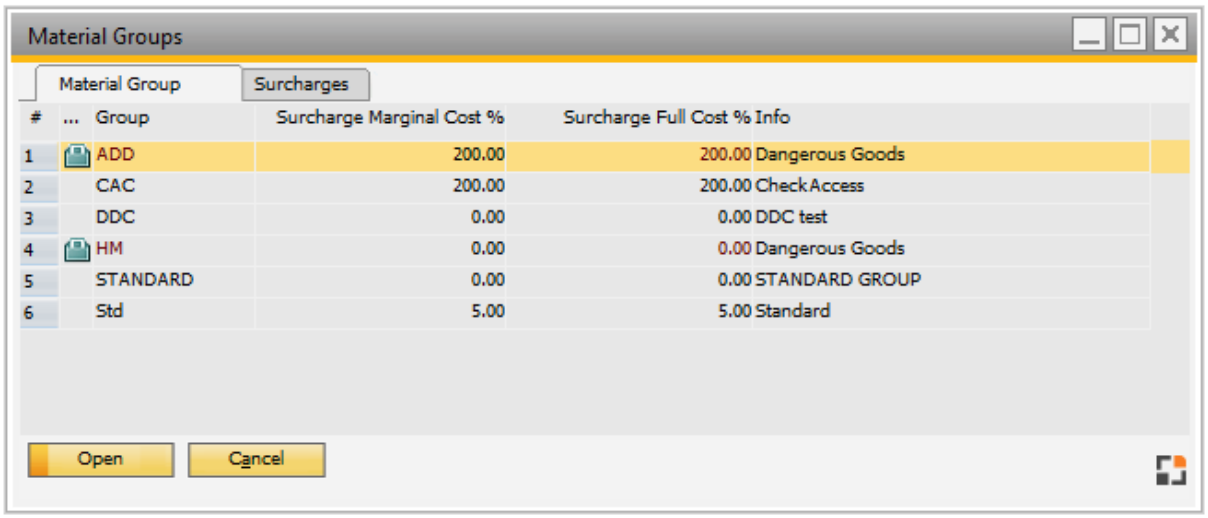
© 2026 Boyum IT Solutions A/S

Material Group tab
Surcharges tab
Data record selection

3.2.4.3.1 Material Group tab

In this window properties of the material group are displayed. It is a dynamical window, and UDFs are supported.

PATH: Administration > Setup > Inventory > Material Group.



Window basis_materialgruppe_browse.psr

Functions

Function	Meaning
Open	Edit details of the material groups. ***See*** Edit material group.
Add	Create new material group.
Remove	Delete new material group.
Duplicate	Create material group from the duplication of the selected one.
Cross reference	Cross reference.

See

Material group
Edit material group

© 2026 Boyum IT Solutions A/S

Configuration wizard – Master data – Material group

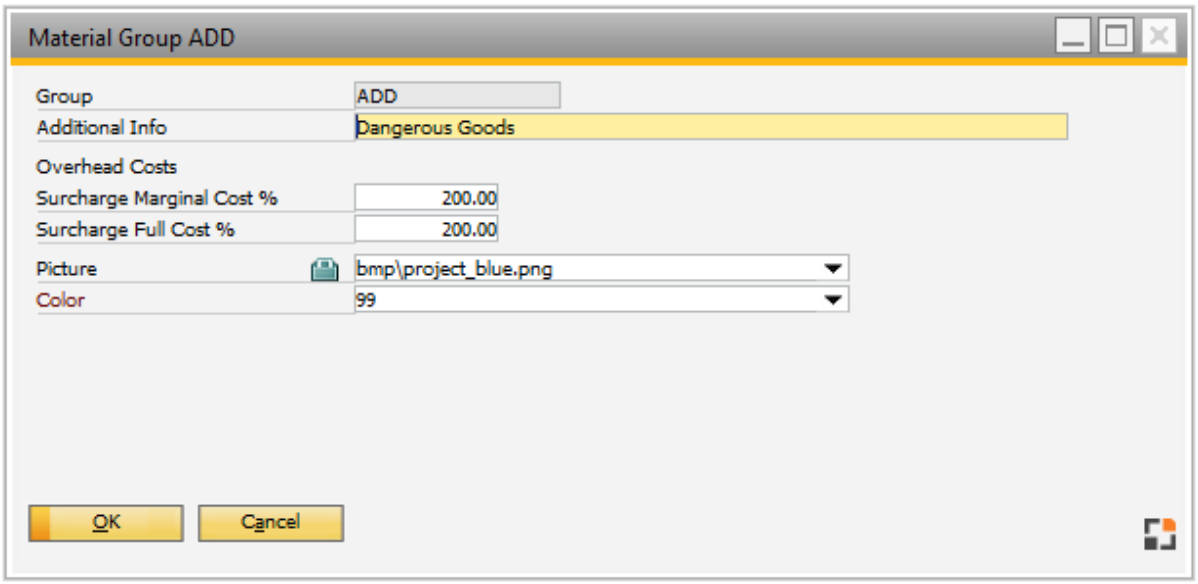
Templates

Surcharges

3.2.4.3.1.1 Edit material group

Material groups are edited here. For further information ***see*** Material group

PATH: Administration > Setup > Inventory > Material Group > **Open** an entry.



Window basis_materialgruppe_edit.psr

Field	Description
Group	Unique ID of the material group.
Additional Info	Any additional information or description of the group.
Surcharge Marginal Cost %	Surcharge on the material marginal cost rate – can be identified separately e.g. in calculation.
Surcharge Full Cost %	Surcharge on the material full cost rate – can be identified separately e.g. in calculation.
Image	Icon (displayed in selection windows).
Color	In the selected color the material group will be displayed in lists.
UDF1...UDF4	Up to 4 additional entry fields are available. For setup ***See*** Configuration wizard – Master data – Material group.

© 2026 Boyum IT Solutions A/S

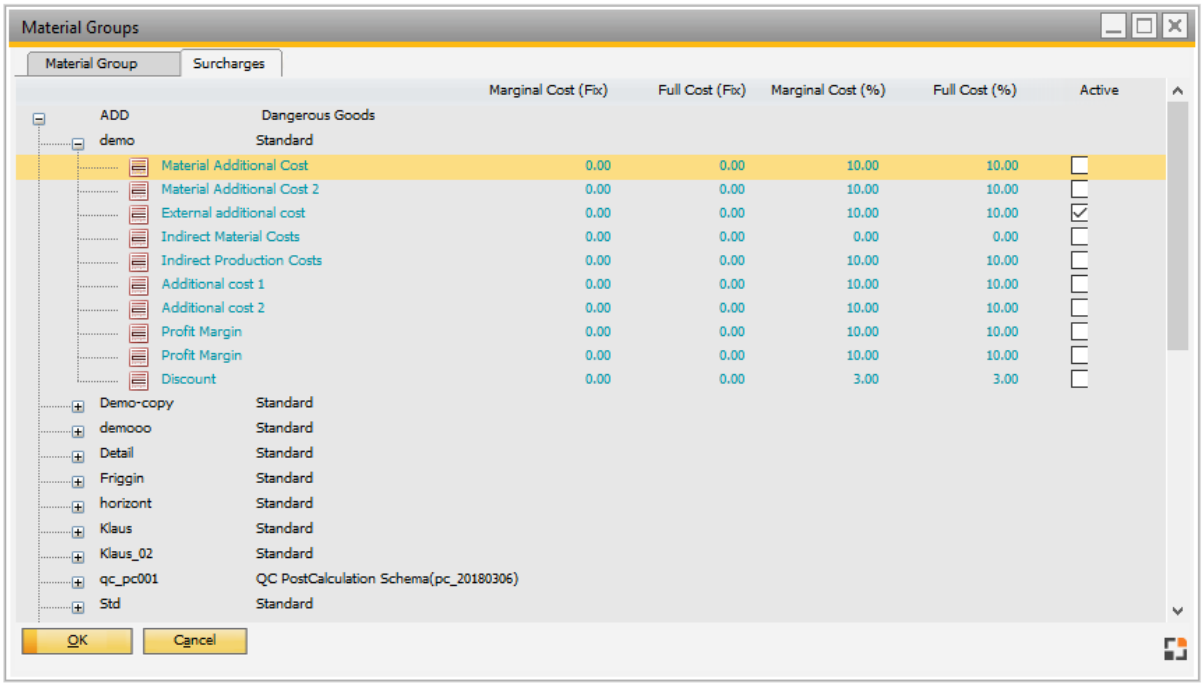
3.2.4.3.2 Surcharges tab

For every calculation schema different material group-dependent surcharges can be defined for each surcharge object.

Once the "Active" check mark has been set for an entry, the values stored there are used, otherwise the values as per the calculation schema are considered.

Under "Detail" you can store accounts, depending on the material group.

PATH: Administration > Setup > Inventory > Material Group > Surcharges tab.



Window basis_materialgruppe_zuschlag.psr

Field Description

Field	Description
Marginal costs (fixed)	Fixed surcharge at marginal costs.
Full costs (fixed)	Fixed surcharge at full costs.
Marginal costs (%)	Surcharge on the marginal cost rate.
Full costs (%)	Surcharge on the full cost rate.
Active	If active, the surcharge defined for this material group is used.

see

Costing objects

© 2026 Boyum IT Solutions A/S

Function

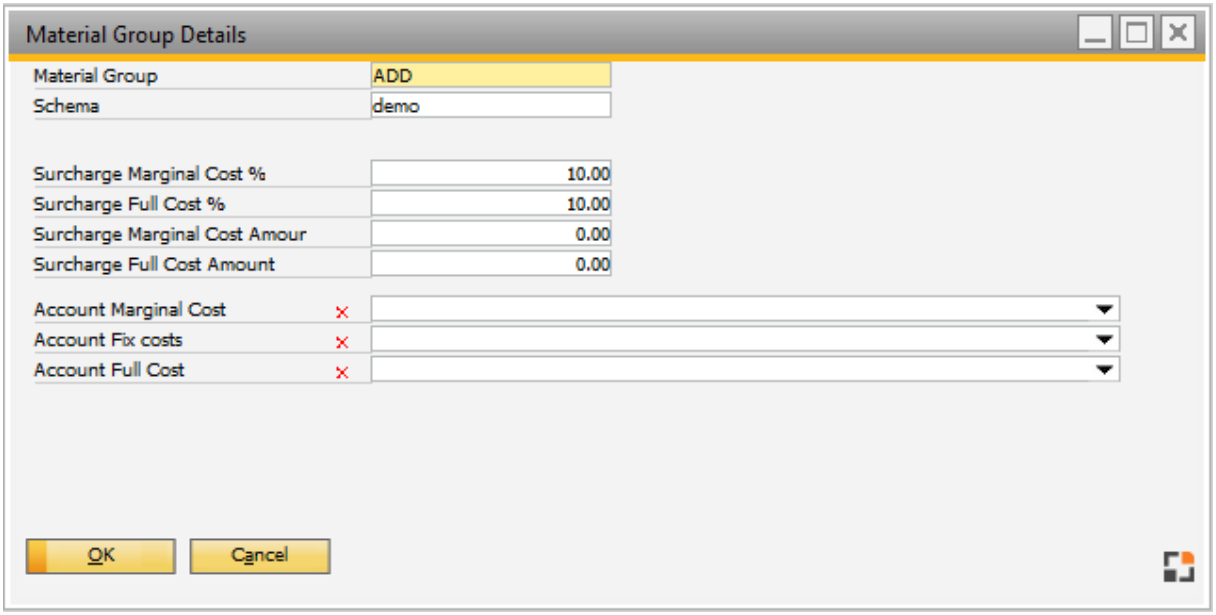
Function	Description
Details	Works only if "active" was enabled for the current row. The screen "material group details" is opened for editing account details. ***See*** Material group Details.

See:
Material group
Calculation schema
Calculation objects

3.2.4.3.2.1 Material group Details

In the calculation schema different material group-dependent surcharges can be defined for each surcharge object.
In this screen you can store surcharges and account information depending on the material group. These have a higher priority than the ones stored in the Calculation schema.

PATH: Administration > Setup > Inventory > Material Group > Surcharges tab > **Details** function.



Window basis_materialgruppe_zuschlag_edit.psr

Field Description

Field	Description

© 2026 Boyum IT Solutions A/S

Marginal costs (fixed)	Fixed surcharge at marginal costs Calculation objects.
Full costs (fixed)	Fixed surcharge at full costs.
Marginal costs (%)	Surcharge on the marginal cost rate.
Full costs (%)	Surcharge on the full cost rate.
Account marginal costs	Account marginal costs Calculation objects – Accounts.
Account fixed costs	Account fixed costs.
Account full costs	Account full costs.

see

Costing objects

Surcharges tab

Calculation schema

3.2.4.4 Units of measure

The SAP Business One window called "units of measure" is opened.

Here you can define all UoM Codes. For more information see SAP documentation.

NOTE: UoM Code and UoM Name must always be identical.

Consequently, it is only possible to modify an existing UoM by deleting it first, and creating a new Code and Name!

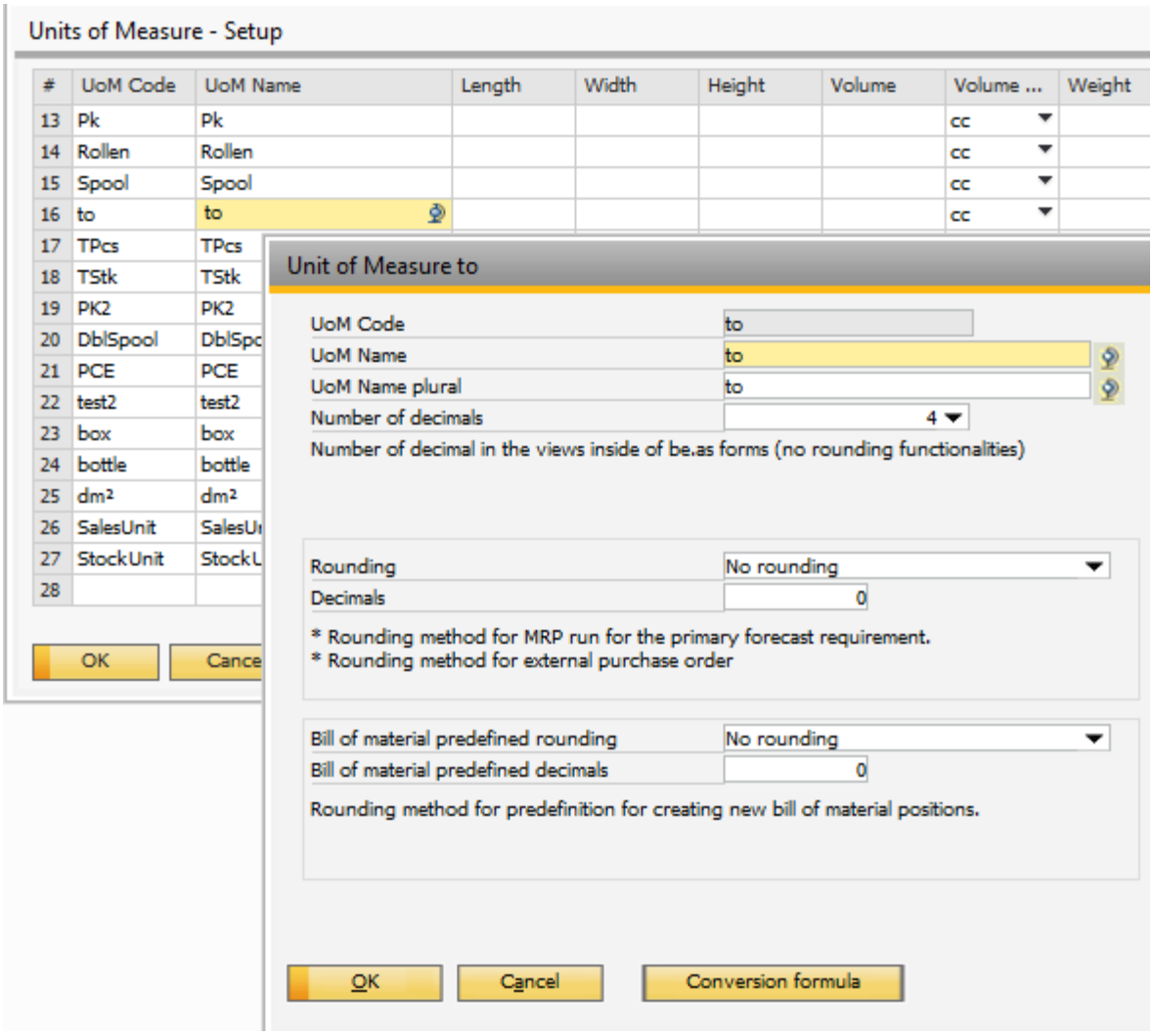
See Concept of UoM

If Beas is started without SAP Business One, the Beas – window units of measure opens.

Administration of units of measure in Beas and SAP Business One uses the same data; it is always synchronized.

In the Beas – screen additional information can be stored. Accessible: in SAP Business One – window use **right-click > extended.**

© 2026 Boyum IT Solutions A/S



PATH: Administration > Setup > Inventory > Units of Measure.

See

[General settings – View – Decimal places]

[Edit units of measure]

[Precalculation pricing]

- The following units of measure are available in Beas:

Type	Description
Inventory UoM	For storing goods and counting at inventory and display in [inventory history] *(Field OITM.InvNtryUom)*
Production UoM	This is the production Unit.

© 2026 Boyum IT Solutions A/S

Type	Description
	Every quantity in Bill of materials and work order position is stored in production unit. Conversion between production unit and inventory unit is defined in the Conversion. Note: In BoM you can define a separate Input Unit. In this case the system calculates the production unit from input unit and the inventory unit from production unit *(Field OITM.U_me_verbr)*
Sales UoM	Used for offers, customer orders, delivery note, invoice and all other documents in area Sales. *(Field OITM.SalUnitMsr)*
Purchasing UoM	Used for purchases, delivery, purchase invoices. *(Field OITM.BuyUnitMsr)*
Inventory Counting UoM	Unit for stock counting. Currently not supported by Beas. *(Field OITM.CntUnitMsr)*
Input UoM	In the Bill of materials window you can define an own UoM. From this Unit the system calculates the production UoM and from this the inventory UoM.

The warehouse unit is always used for postings. If a posting is done through Beas, you have the option to enter the quantity in consumption units or in warehouse units.

- Extended functions in SAP Business One environment.

Restrictions:
SAP Business One allows a subsequent change of the unit ID and description. In the item the description is saved, not the ID. Because Beas connects the ID with additional information, for example with rounding function, the ID and description need to match in SAP Business One.
In SAP Business One it is also possible to change existing unit ID. For example, "kg" can be changed to "ton". All existing items originally stored in "kg" are then stored in "tons". Inventory would change from 10 kg to 10 tons.

This is why there are restrictions in Beas:

© 2026 Boyum IT Solutions A/S

Description and ID of the unit must be the same. IDs may not be changed subsequently.

Available extended functions

Extended: calls the extended features of Beas. ***See*** Edit units of measure.
Conversion: conversion formulas between warehouse unit and consumption unit. ***See*** conversion.

- View Beas without SAP Business One.

A dynamically adjustable list opens. ***See*** window settings.
All stored units of measure are displayed.

Edit: open extended settings, defined in Beas ***See*** Edit units of measure.
Extended: opens the SAP Business One - window for units of measure.

(window basis_me_browse)

3.2.4.4.1 Edit units of measure

PATH: Administration > Setup > Inventory > Units of Measure.

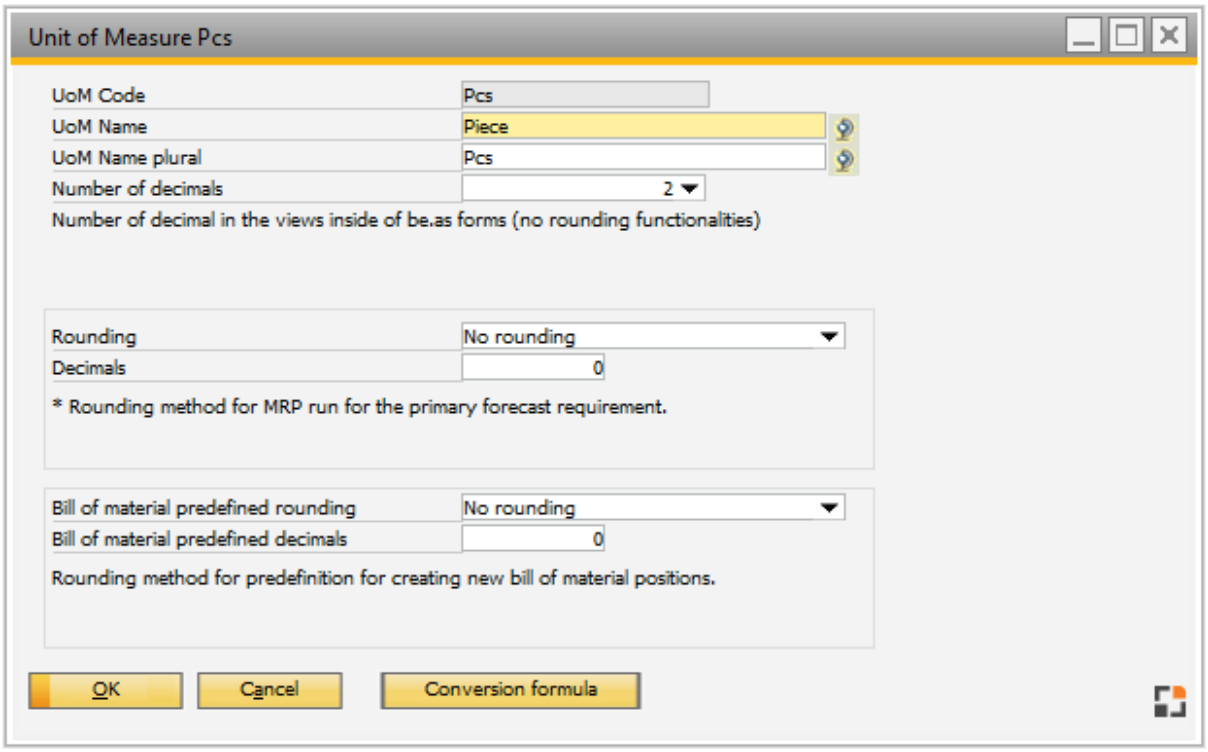
Additional details for units of measure can be defined here. The window can be called up from **SAP B1 unit of measure > right-click > Extended** or via beas **units of measure list > extended.**
This is an extension of SAP B1; no deletion is possible. To delete, use SAP Business One – units of measure.

For more notes on units of measure ***See*** Units of measure.

Function	Description
Extended	Call up window SAP Business One – Units of measure.

PATH: Administration > Setup > Inventory > Units of Measure > right-click an entry > **Extended** .

© 2026 Boyum IT Solutions A/S



Window: basis_me_edit

Field definition

Field	Description
UoM Code	Name code of the unit of measure. This field supports Unicode characters.
UoM Name	Name of the unit in singular form(can be used for report printouts)
UoM Name plural	Name of the unit in plural form (can be used for report printouts)
Number of decimals	Defines the number of decimals displayed for the UoM. In Beas, numbers are always formatted according to the Windows settings (**Control Panel > Regional Settings**), since all beas fields are input fields conforming to Windows. **Important:** This is not a rounding for calculation. These settings are used for display purposes only. Therefore, if the number of decimal

© 2026 Boyum IT Solutions A/S

	places has been set to 4 digits in Beas, but it has been set to 2 digits in SAP Business One, then 4 digits are displayed on the screen, but the transaction is posted using only 2 digits. **Example:** kg = 2 decimal places Inventory = 1.523 kg, in Beas area an inventory of 1.52 kg is displayed Inventory = 1.553 kg, in Beas area an inventory of 1.56 kg is displayed **It is a pure display setting in Beas forms**. Beas essentially works with 6 decimal places and posts with the number of decimal places configured in **SAP > Administration > System > General Settings > Display** under Decimal Places.
Rounding	Define Rounding for special Areas This defines the Rounding Method for • MRP run for the primary forecast requirement • external purchase order (field quantity), *(beas 9.3 PL 1)*
Planning decimal places	Determines rounding for forecast in MRP Note: The available rounding types are: • Rounding at .5 • Round up: always round up • Round off: always round down • No rounding ***Forecast Scheduling Example***: Scheduling: 50 pieces are scheduled for the current month and today is the 20th day of the month. Results in a requirement of 50 : 30 days/month * 20 = 33.3333 When planning decimal places, the number of decimal places is specified and the type of rounding is specified during rounding.

© 2026 Boyum IT Solutions A/S

	Rounding Examples: Requirement 33.33 with 1 decimal place Commercial: 33,3 round up: 33,4 round down: 33,3 Requirement 33.45 with 0 decimal places Commercial 34.0 Round up 34.0 Round down 33.0
BoM default rounding	Determines the rounding default to be used for this UoM when creating a new Bill of material position. BoM items can be stored in any unit of measure. A rounding definition can be stored in BoMs. Here you can specify the rounding default to be used for this unit of quantity when creating a new BoM position. Rounding affects the total result – computed per warehouse unit, not per piece or consumption unit. ***Example*** Requirement 0,03 per piece Rounding: multiple = 1 Production: 30 pieces = 0,03 = 30 = 0,9 Requirement = multiple of 1 = 1 Pcs Available rounding methods: commercial round up round down multiple of no rounding Requirement 33.33 1 decimal

© 2026 Boyum IT Solutions A/S

	commercial : 33.3 round up: 33.4 round down: 33.3 Requirement 33.45 0 decimal commercial 34.0 round up 34.0 round down 33.0 Compute multiples Multiple = 1 0.5 = 1 0.7 = 1 1.1 = 2 Multiple = 2 0.5 = 2 0.7 = 2 1.1 = 2 2.0 = 2 2.1 = 4
BoM default decimal places / multiple of	Defines the decimal place to be set per inventory unit, not per piece or consumption unit. If "multiple of" is selected, the factor is specified here.

3.2.4.4.2 Conversion

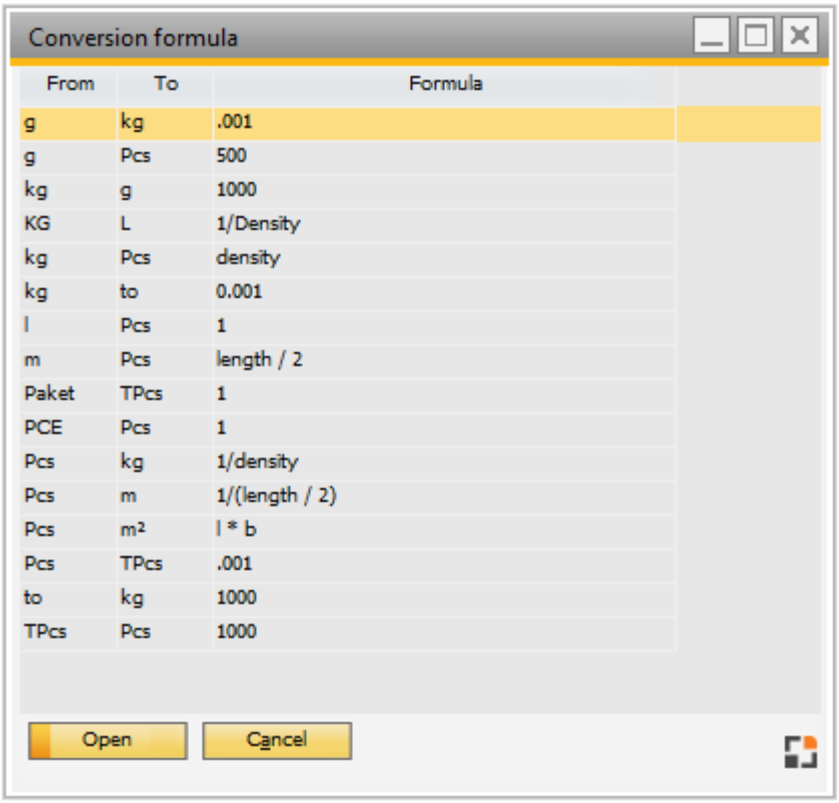
In the Conversion form you can define the formula for conversion between Production UoM and Inventory UoM.

In different places the system checks the conversion formulas to calculate the factor between 2 units.
Not supported: Sales UoM, Purchase UoM, Inventory counting UoM

Please define all formulas in both access, for example kg > Pcs and Pcs > kg.

© 2026 Boyum IT Solutions A/S

PATH: Administration > Setup > Inventory > Units of Measure > right-click an entry > **Conversion** /

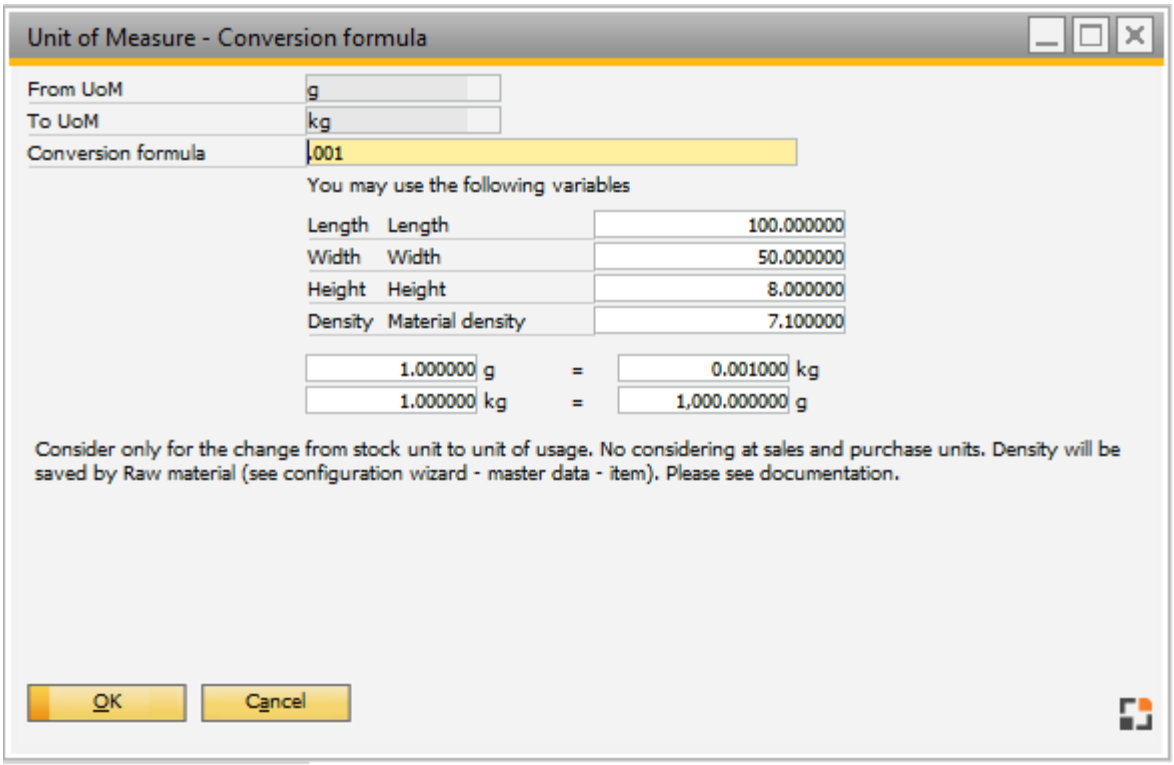


Window basis_meumr_browse.psr

Click **Open** to access the Conversion formula Editing window.

PATH: Administration > Setup > Inventory > Units of Measure > right-click an entry > **Conversion** / > **"Open"**.

© 2026 Boyum IT Solutions A/S



Window: basis_meumr_edit

When using extended conversion formulas:

Conversion takes place in the so-called data window syntax.

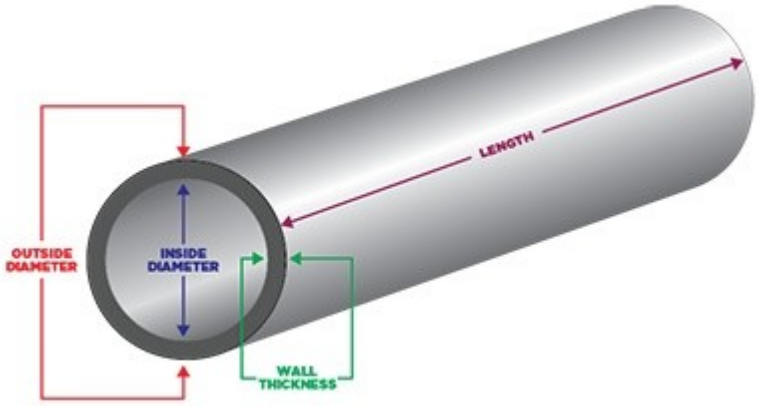
IMPORTANT: When an UoM Group is defined for an item, the UoM Conversion is applied based on SAP definitions and NOT the conversions defined in Beas.

- Example: Pipe in a Bill of Materials Position

  Inventory UoM is kg

  Consumption is Pcs with length, height and width.

© 2026 Boyum IT Solutions A/S



Formula:

```
((length *  od * pi()^2)  - (length * id * pi()^2) ) * density
```

For more information ***see*** Unit of Measures.

- Available variables

You can use properties for calculation of the factor between both units. The following properties are available:

length width, od height, id	Length, Width, Height in Bill of material: Use information from this position in Item master data: Use information from purchase area Note: The system ignore the UoM from length/widt/weight You must use always same UoM, example mm
density	Density according to the raw material. If set in the options: The item master determines density and hence the density used is in accordance with the item master data. ***See*** Item master – specific weight Configuration Wizard – Master data – Item – specific weight Raw Material

In Variant generator, unit of measurement calculation and in other areas for formulas DataWindow-Syntax is used. This is to give a short overview of available functions. Further

© 2026 Boyum IT Solutions A/S

details ***see*** online Powerbuilder-descriptions.

Mathematical symbols (operators)

Mathematical symbols (operators)	
+	Addition (numbers) or consolidation (characters)
-	Subtraction
*	Multiplication
/	Division
^	Power

Auxiliary symbols

(	Left parenthesis
)	Right parenthesis
.	Decimal separators **(all nationalities !!!)**

- The formula must be logical, '('must be followed by')' etc.
- Any level of nesting is permitted.

Numeric functions

abs	Absolute – removes the sign	abs(-3) = 3 abs(3) = 3
ceiling	Return of the next higher integer	ceiling(-4.2) = 4 ceiling(-4.8) = 4
cos	The angle (in rad) for which the cosine should be calculated	cos(0) = 1 cos(1) = 0.540302
exp	The power for the exponential e (2.71828)	Exp(2) = 7.3890560989
fact	Value for the faculty	fact(4) = 24 fact(0) = 1
int	Rounds down to the next integer	int (3.8) = 3 int (-3.2) = 4
log	Calculates the natural logarithm of a number	log(10) = 2.302585092
logten	Calculates the logarithm to base 10	logten(10) = 1
mod	Calculates the remainder of a division	mod(20, 6) = 2 mod(25, 4.5) = 2.5
pi	Multiplies Pi by the specified number	Pi (1) = 3.14159265

© 2026 Boyum IT Solutions A/S

Border	Random number between 1 and specified number	rand(20) = 1 ... 20
round	Rounds the number from the specified position	round(3.333,2) = 3.33 round(3.335,2) = 3.34 round(324,-2) = 300
sign	Calculates whether the number is negative, zero or positive. (by checking the sign)	sign(5) = 1
sin	Calculates the sine of an angle	sin(1)=0.84147098
sqrt	Calculates the square root of a number	sqrt(2) = 1.414213562
tan	Calculates the tangent of an angle	tan(1) = 1.55741
truncate	Reduces a number to the specified places	truncate(9.22, 1) = 9.2 truncate(9.28, 1) = 9.2

Logical formulas

Beas also permits the use of logical formulas with the following structure:

```
if ( logic , value by true , value by false)
```

e.g.

```
if ( red = blue , 3.34 * x , 0 ) + (x * 2)
```

Logical characters and functions

=	Both values are identical	Price = 100
>	Left value greater than right value	Price > 100
<	Left value smaller than right value	Price **<** 100
<>	Left value is not right value	Price <> 100
>=	Left value greater than or equal to right value	Price >= 100
<=	Left value smaller than or equal to right value	price <= 100
NOT=	Left value is not right value	Price **not =** 100
LIKE	Left value is part of right value	Name **like** 'C%'
IN	Left value contained in right list	Price **in** (100,200,300)
BETWEEN	Left value is in the range of	Price **between** 1000 and 2000

© 2026 Boyum IT Solutions A/S

NOT LIKE	Left value is not in right value	Price **not like** 'C%'
NOT IN	Left value is not in right list	Price **not in** (100,200,300)
NOT BETWEEN	Left value is not in range	Price **not between** 1000 **and** 2000

LIKE works with placeholders:

% Any number of characters

_ Any single character

Example:

'c%' corresponds to any string beginning with c

'c_' corresponds to any string beginning with c and containing one additional arbitrary character

Logical links with "if"

Conditions can be linked with AND and OR as well as with NOT AND/OR:

```
if ( x = y and x = z ,1,0)
if ( x = y or x = z,1,0)
if ( x = y and not x = z,1,0)
```

Logical formulas with "case"

With **case** different results can be returned depending on a condition.

```
case ( column when value1 then result1 { when value2 then result2
   { ... } } { else resultelse } )

case (marriage_status when 'S' then 'Single' when 'M' then 'Married' else 'Unknown')
```

Working with characters (strings)

Characters can be processed.

Characters are combined through +

```
a = "Adam"
b = "Eve"
a + " " + b = "Adam Eve"
```

The beginning and end of a string must be identified.

The following identifier fields are permitte:

" "Hello World"
' 'Hello World'
[.] [Hello World]

© 2026 Boyum IT Solutions A/S

The use of identifier fields in string fields is permitted if the string begins with a different identifier field:

"[Hello] 'World'" Result: **[Hello] 'World'**

There are many character editing functions:

fill	Returns a filled string	fill("*"),3) = "***" fill("-+"),5) = "-+-+-"
left	String that is truncated at the right	left("hello world,6)="hello "
lefttrim	String that is truncated at the right and has blank spaces removed	leftright("hello world,6)="hello"
len	Return of number of characters in a string	len("hello") = 5
lower	Swaps uppercase letters in a string for lowercase letters	lower("Hello") = hello
match	Checks characters used (for more information, see Sybase Infomaker)	match("A","^[A-Z]) = true
mid	Returns the specified part of a string	mid("Hello",2,2)= "al"
Pos	Returns the position of a given string in the first string	pos("Hello","l") = 3
replace	Replaces a string in another string	replace("David", 4, 2, "e") = "Dave"
right	String which is truncated at the left	right("hello world",5)=" world"
righttrim	String which is truncated at the left and has blank spaces removed	righttrim("hello world",5)="world"
space	Returns specified number of spaces	space(5)=" "
string	Converts a number, date, character into a formatted string. Observes international settings in doing so.	string(5.2344,"#,#0.00") Germany: "5,23" USA: 5.23
trim	Removes the spaces left and right	trim(" hello ") = "hello"
upper	Swaps lowercase letters in a string for uppercase letters	upper("Hello ") = "HELLO"
wordcap	Converts first letter into a capital letter and the remainder into lowercase letters.	wordcap("boston, MASSACHUSETTS") = "Boston, Massachusetts"

Used for ***example*** in

© 2026 Boyum IT Solutions A/S

Variant generator - Formulas
Work order structur view - Adaptation

To provide a better overview, sample values are listed for the available placeholders incl. conversion between the two units in both directions.

Field definition

From UoM	Conversion of UoM (unit of store)
To UoM	Conversion to UoM (consumption unit)
Conversion Formula	Conversion formula between both units. Add mathematical operators or functions. ***See*** Properties and Syntax
In the lower part of the screen you can see a two-way conversion calculation based on the conversion formula.	
length, width, height, od, id,	Dimension defined by the item. The value is retrieved from the item master data in SAP. The value shown on the screen is only an example to allow testing.
Density	Dimension defined by the item to be used as a conversion factor. This option is used when the conversion is not fixed as, for example, kilogram to gram. In this case, we use variables. As Purchase and Sales units have a conversion factor in SAP, in Beas we can use the density variable to define a factor to convert from inventory unit to the bill of material unit. Density can be defined using the raw material field or the specific weight field from the item master data. Only one option is available and it depends on a parameter from the Configuration wizard > Item > Spec. Weight by Item.
Number unit 1	Conversion from unit 1 to unit 2
Number unit 2	Conversion from unit 1 to unit 2

See

DataWindow Syntax
Units of measure
Edit units of measure
Item master – specific weight

© 2026 Boyum IT Solutions A/S

Configuration Wizard – Master data – Item – specific weight

3.2.4.4.3 UoMNames

Type	Description
Inventory UoM	For storing goods and counting at inventory and display in inventory history *(Field OITM.InvNtryUom)*
Production UoM	This is the production Unit. Every quantity in Bill of materials and work order position is stored in production unit. Conversion between production unit and inventory unit is defined in the Conversion. Note: In BoM you can define a separate Input Unit. In this case the system calculates the production unit from input unit and the inventory unit from production unit *(Field OITM.U_me_verbr)*
Sales UoM	Used for offers, customer orders, delivery note, invoice and all other documents in area Sales. *(Field OITM.SalUnitMsr)*
Purchasing UoM	Used for purchases, delivery, purchase invoices. *(Field OITM.BuyUnitMsr)*
Inventory Counting UoM	Unit for stock counting. Currently not supported by Beas. *(Field OITM.CntUnitMsr)*
Input UoM	In the Bill of materials window you can define an own UoM. From this Unit the system calculates the production UoM and from this the inventory UoM.

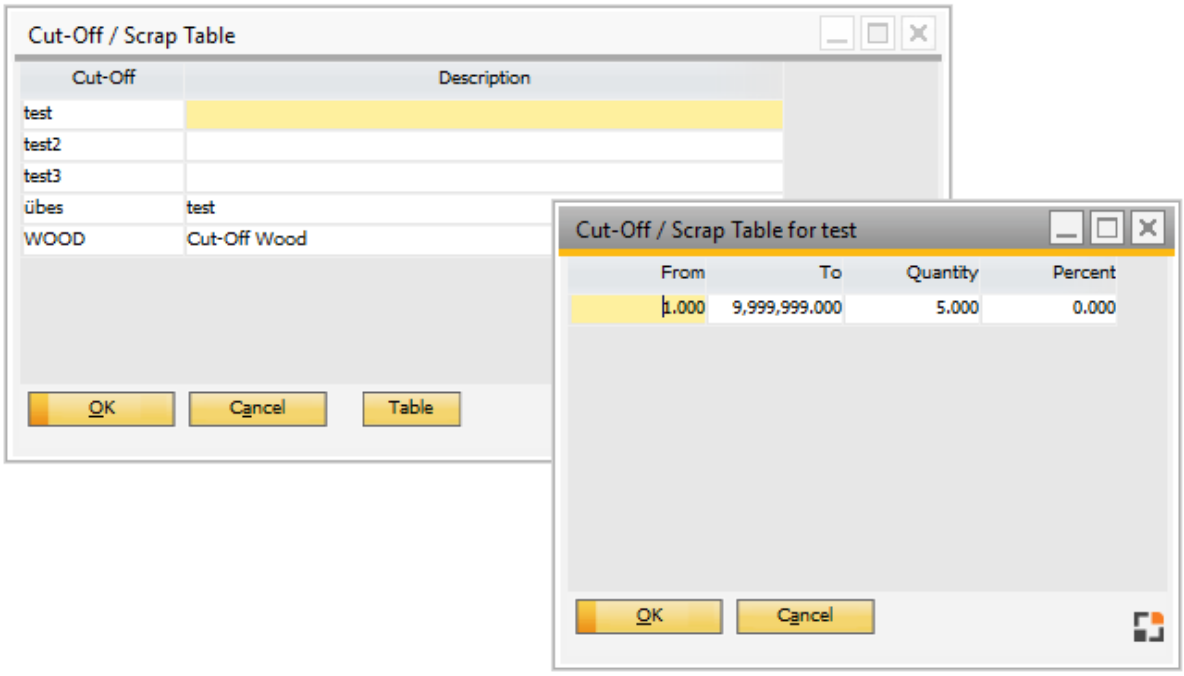
3.2.4.4.4 Cut-off

Scrap can be used to define the material loss in production.

Calculation of material loss can be set up in Configuration wizard – scrap quantity.

PATH: Administration > Setup > Inventory > Cut-Off > **Table**.

© 2026 Boyum IT Solutions A/S



stamm_verschnitt_browse, stamm_verschnitt_werte_browse

see concept: Cut off / Scrap.

Any number of scrap tables can be defined and allocated to the individual assemblies.
he scrap information depends on the quantities and can cause a percentage or quantity value.

Note:
Cut-Off is only considered in the production and material requirements calculation or MRP run, but not in the precalculation.

Field Description

Field	Description
Cut-Off	Unique ID.
Description	Long Description.

Field description of the scrap position

Field	Description
From	From quantity in production unit
To	To quantity in production unit

© 2026 Boyum IT Solutions A/S

Quantity	Surcharge quantity as value in production unit
Percent	Surcharge quantity in percent .

Functions

Function	Description
Add	Add new line to the Cut-off/Scrap table.
Remove	Remove selected line from the table.
Refresh window	Refresh window after changes.
Duplicate	Duplicate entry.
Table	Opens the scrap position table (***see*** image and field descriptions above).
Copy	Copy text.
Insert	Insert text from clipboard.

see

Option consider scrap

Video: Scrap on Item Level

3.2.4.5 Raw Material

The raw materials of an Item can be stored here. Raw materials serve as information. If different units of quantity are used, the density information can also be read from the raw material.

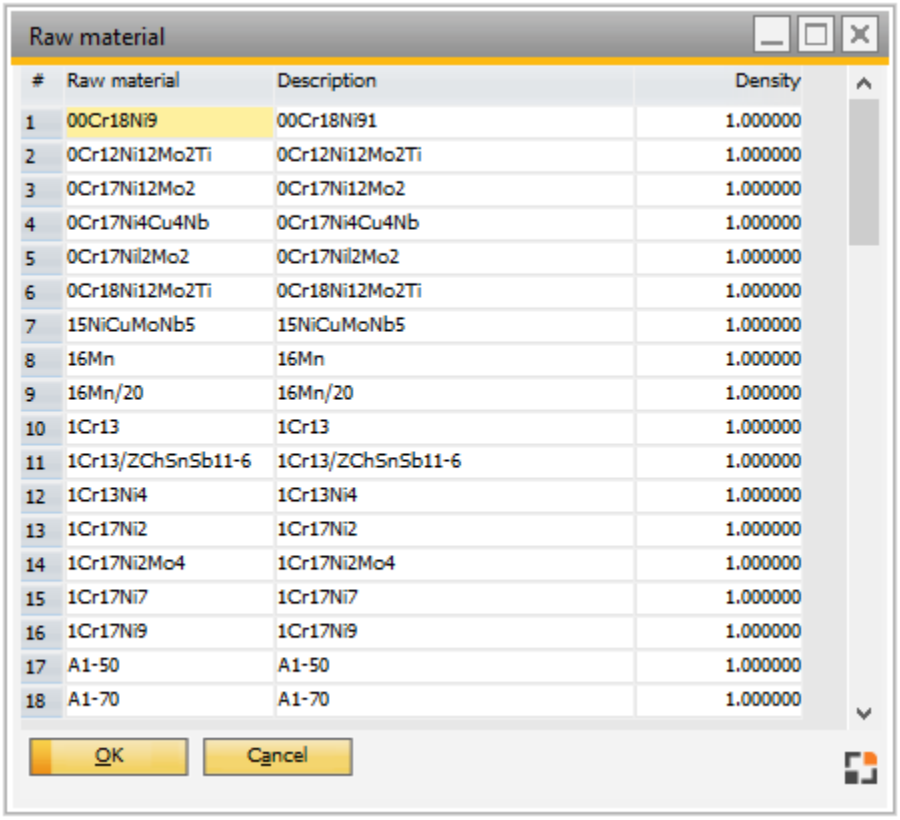
PATH: Administration > Setup > Inventory > Raw material.

Raw Material info defines the raw materials of an item.

In the Raw Material definition you can define the Raw Material Id, the Description, Density, up to 4 Properties and a price.
Access: Edit Raw Material, License: Basic License, Windows setting are supported.

You can define the raw material in the item master data and Bill of materials position.

© 2026 Boyum IT Solutions A/S



Window basis_ wst_ browse.psr

Example for Raw Material:

A sheet of metal is made of aluminum or iron.

A pipe is made of plastic or stainless steel.

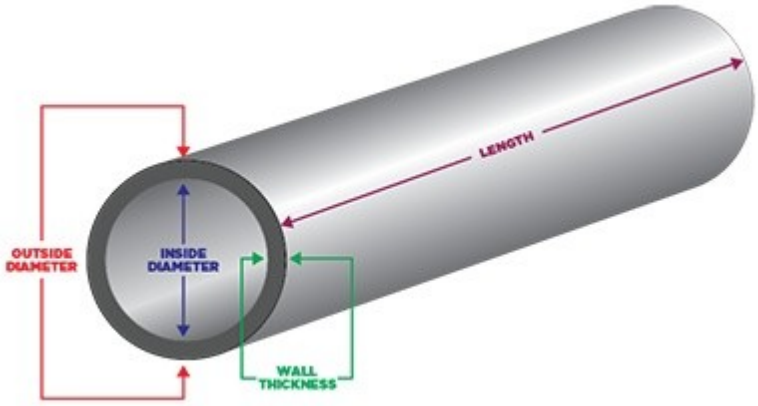
Used for

- Work order Variant system: Define Raw Material by formula.
- Work order Variant system: Define Machine: permitted number of rpm .
- Calculation: Calculate price by Raw Material (own formula system).
- Work order report: Report additional properties for example Melting temperature.
- Conversion between the units of quantity if the density stored in the raw material is required for this. ***See*** Unit of Measurement – Conversion.

Example: Pipe in a Bill of Materials Position

Inventory UoM is kg Consumption is Pcs with length, height and width.

© 2026 Boyum IT Solutions A/S



Formula:

```
((length *  od * pi()^2)  - (length * id * pi()^2) ) * density
```

For more information ***see*** Unit of Measures.

Field Description

Field	Meaning
Raw Material	Raw material – ID.
Description	Description of the material.
Density	Specific density. It can be used e.g. to convert from warehouse unit to consumption unit (weight where applicable). If density is defined in item master, the field is hidden in raw material administration. This is set up in Configuration wizard.
Group	Define Group definition (without additional functionality).
UDF1-4	Define up to 4 UDF's.
Propertie1-4	Define up to 4 Properties.
Price	Define a price.

Several additional fields as UDF, properties, price etc. can be set up via window settings.

see

Data record selection

© 2026 Boyum IT Solutions A/S

3.2.4.6 Manufacturer

PATH: Administration > Setup > Inventory > Manufacturers.

Manufacturers is for information purposes; this field can also be used for searching or sorting. Manufacturers can be defined in this table. This input is identical to the input in SAP Business One.

see

Data record selection

3.2.4.7 Warehouses

The setup function of SAP Business One is called. Thus the field description is the same. Additional functions are accessible through **right-click.**

PATH: Administration > Setup > Inventory > Warehouses.

In this window, define all the general information regarding the warehouses used by your company.

Field	Description
Drop Ship	Attention: This SAP parameter is not supported in Beas Manufacturing.
Nettable	Select this check box if you want the warehouse to be involved in the MRP process.
Address Fields	Enter the address of the warehouse.
Federal Tax ID	Enter the relevant tax ID for this ship-to address. This number is saved in the documents and will be used for calculating the EU Sales Report.
Tax Code	Specify the default tax code for purchasing documents created for items related to this warehouse.
Allow Use Tax	Select this check box to determine whether the shipping address of the warehouse may apply use tax.

Right-click to open the Beas menu:

Menu item	Description
Inventory list : (Warehouse)	Show the stock level of the selected warehouse.
Open documents	Show all documents still open.

© 2026 Boyum IT Solutions A/S

Bin location management Overview	Overview all warehouses.
Extended	Open extended settings.
Delete	Delete entry .
Duplicate	Duplicate entry.

3.2.4.8 Tool Administration

The tools necessary for the production are managed here.

PATH: Administration > Setup > Inventory > Tool Administration.

Tools can be assigned to resources or maintenance sequences, they have an effect on capacity planning.
Tools have a number and a planned capacity, the planned capacity is fixed at 24 hours/day.
A tool can be assigned to a work sequence only as a parallel resource, it also has its own planning calendar and resource utilization information.

For tools, the capacity limit is not considered.
For detailed tab/field descriptions ***see*** Tool Administration.

Training unit 07 Tools

see

Tool administration.

3.2.5 Precalculation

Precalculation settings.

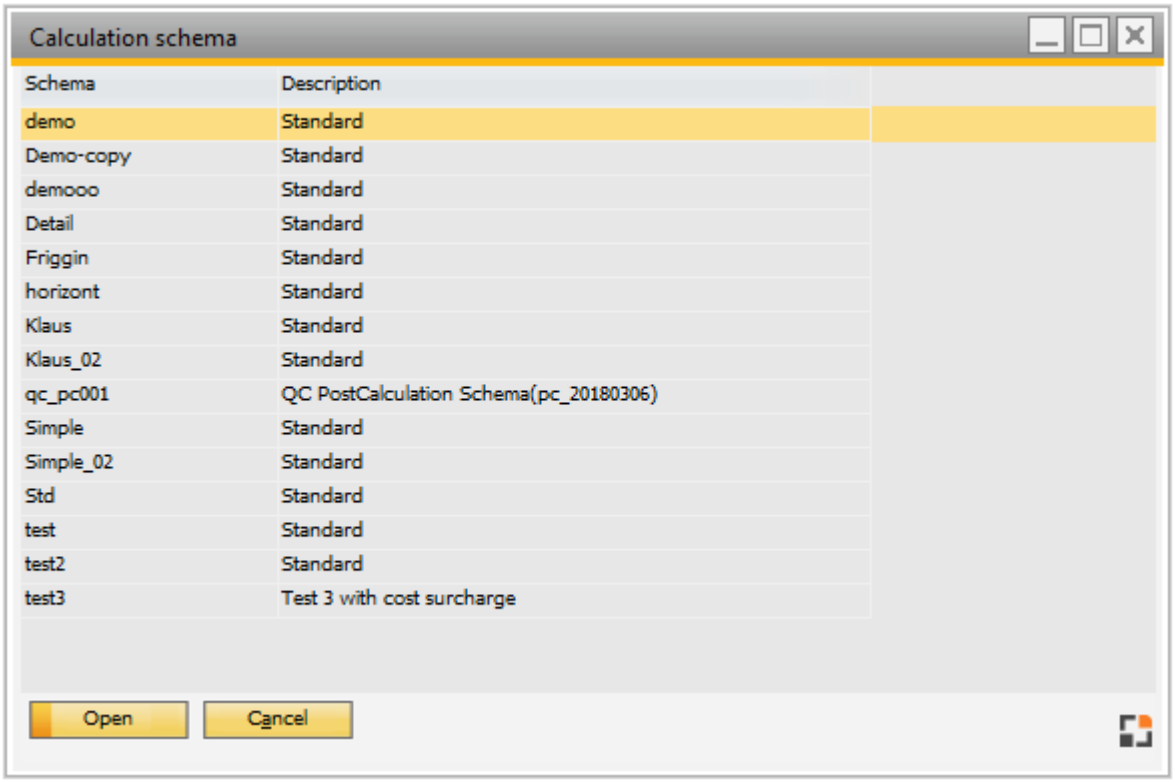
Calculation schema
- Master Data tab
- Calculation objects
- Display

© 2026 Boyum IT Solutions A/S

3.2.5.1 Calculation schema

In a calculation schema surcharges are determined for Precalculation and for post-calculation. The accounts for WIP-bookings can be defined here.

PATH: Administration > Setup > Precalculation > Calculation Schema



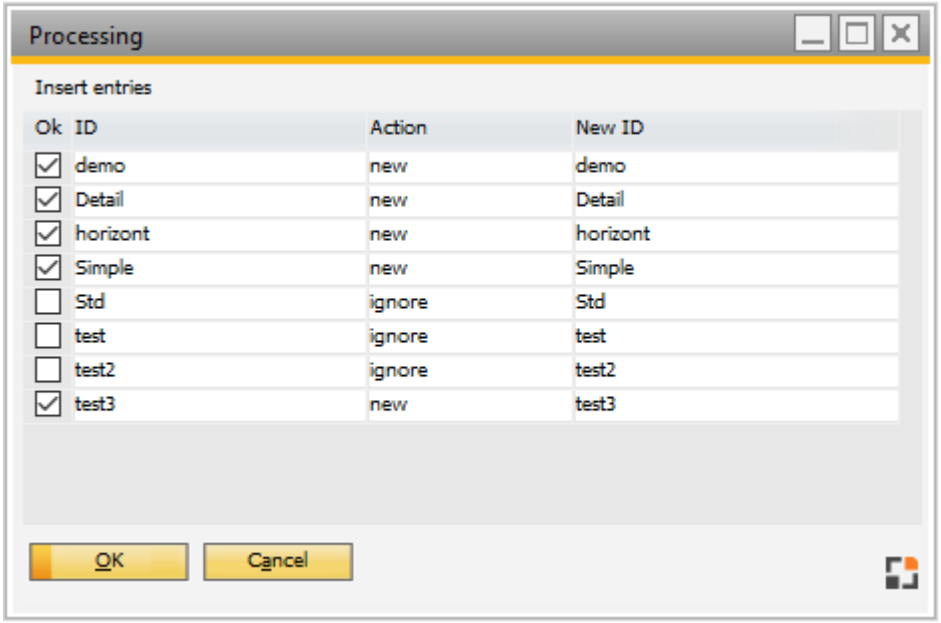
Window pk_schema_browse.psr

Field / (contextual menu) function descriptions

Field/Function	Description
Schema	Calculation Schema ID
Description	Description for the schema
Remove	Delete selected schema(s).
Duplicate	The function generates a duplicated entry of the currently selected schema by copying data to the clipboard and automatically pasting the information in the newly created entry.
Copy to clipboard	Use this function for transferring calculation schemas to other databases. Multi-selection is possible. ***See*** Data record selection copy&paste function.

© 2026 Boyum IT Solutions A/S

Field/Function	Description
Open	Open the Schema edit window.
Insert from clipboard	After pressing the Copy button you can rename and Insert a new schema in the list.



Window system_copy_edit.psr

Field descriptions

Field	Descriptions
Insert entries	The list shows the Calculation schemas that were copied.
OK	Use the radio box to select which calculation schemas should be created or ignored by the insert.
ID	Existing calculation schema ID.
Action	If OK is selected, the action is "new" and you can insert a renamed version of the selected calculation schema. If OK is unselected, the action is "ignored", and this entry will not be inserted from the list.
New ID	Create a new ID for the copied calculation schema before it is

© 2026 Boyum IT Solutions A/S

Field/Function	Description
	<table><tr><th>Field</th><th>Descriptions</th></tr><tr><td></td><td>inserted.</td></tr></table>
Import/Export setup	Create a .psr file to export/import the definition.
Reload default	Reload calculation schema "Std" (Standard definition).

- Reference

A calculation template defines the following:

Field	Meaning
Preliminary costing	Display and valuation of surcharges, sums, and overheads
Final costing	Display and valuation of surcharges, sums, and overheads
WIP posting	Storage of which accounts should be debited with which values ***See*** Configuration wizard - account determination.

- Default calculation schema

A default calculation schema is supplied with Beas. This cannot be changed as it is updated automatically in every update. It is used as a basic template for all other calculation schemas. This schema is created in the language which was set up in Configuration wizard – Administation – Language. Via right-click "reset default" the calculation schema can be read new new in the system language.

- Determination of calculation schema to be used

In Precalculation

according to following priority:

a) as stored in **Administration > Configuration wizard > Calculation > Calculation schema**

b) as stored in **Item master > Calculation Template**

c) if nothing like this exists, the "Std" template is used, which is always installed automatically

WIP and post-calculation

The schema is determined according to the following priority

a) as per **Administration - Configuration wizard > Production > Valuation and posting > Valuation > Calculation schema**

b) as per **Item master > Calculation schema**

b) as stored in **Configuration wizard > Calculation > Calculation schema > Default schema**

© 2026 Boyum IT Solutions A/S

d) if nothing like this exists, the "Std" template is used, which is always installed automatically

Special case Standard costs method:
The calculation schema of last valuation is used.

Areas

A calculation template consists of the following areas

Field	Description
Template	The calculation template ID.
Overheads	All surcharge and sum values. Changeable value.
Default	Default objects. Only its designation and color can be changed.
Final costing	Objects for costing analysis. Only its designation can be changed.

A name and description can be stored. If the Option "Calculation surcharges for sub positions" has been activated, the tab " Display" appears.

Master data

Calculation

see

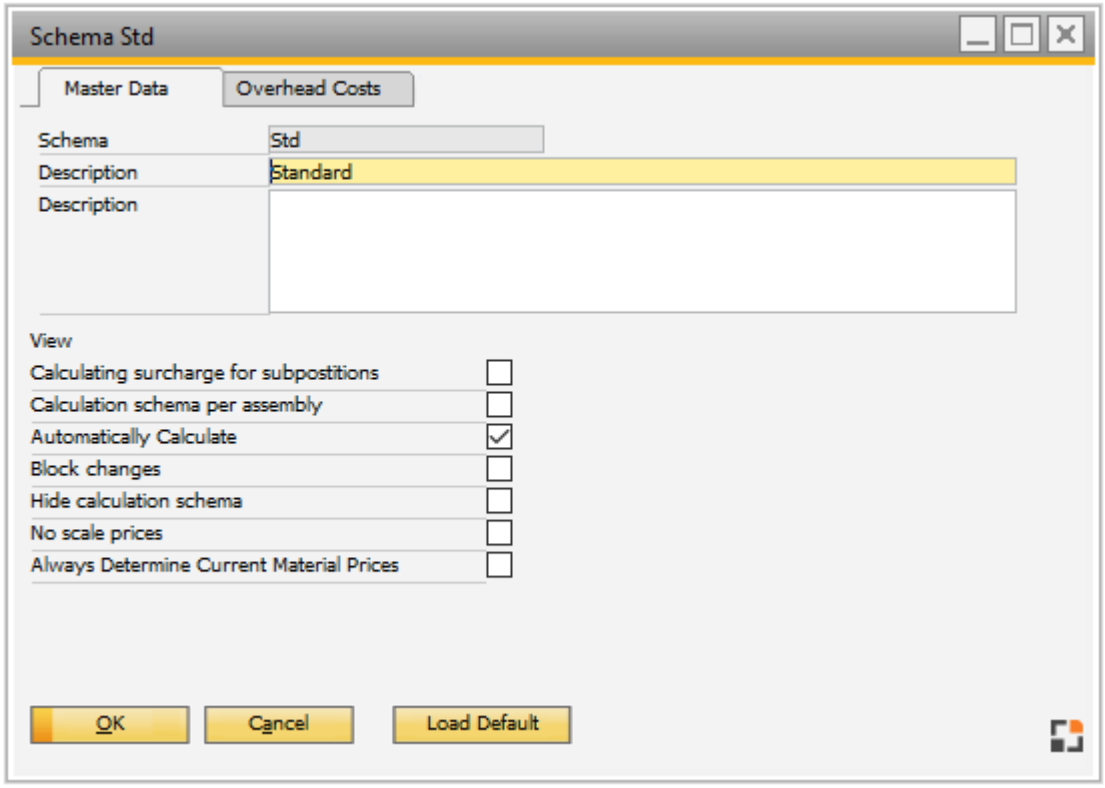
Configuration wizard - calculation schema
Configuration wizard - account determination
Calculation objects
Tool costs
Product cost determination
Webinar: Financial accounting in Beas Manufacturing

3.2.5.1.1 Master Data tab

In this tab you can set your options for the calculation view.

PATH: Administration > Setup > Precalculation > Calculation Schema > **Open** schema

© 2026 Boyum IT Solutions A/S



Window pk_schema_edit.psr

Schema: Calculation schema ID

Description: Add short description of the schema

Description: Add long description of the schema

Calculation view settings (lower window section)

Field	Description
Calculation surcharges for sub positions	If this option is activated, the Display tab appears, and surcharges are calculated not only in the main assembly, but also for all sub-assemblies. Results of the sub-assembly. The results of the sub-assembly can be seen: 1. By double-clicking on the sub-assembly, tab scale price or tab result 2. By defining the enlarged view in tab "Display" in the calculation template, and changing the view in the calculation via tab "View" - button "Extended view" For large calculations the computation takes much longer. If no calculation is required per sub-assembly, this option should be disabled. ***See***

© 2026 Boyum IT Solutions A/S

	Extended view Precalculation – Concept of extended view
Calculation schema per assembly	This option is only active if "Calculation surcharges for sub positions" was enabled. If this option is enabled, then the surcharges can be edited separately for each sub-assembly. This is done by double-clicking on the assembly, tab "Schema". This tab is only visible when the option described here has been activated and this scheme has been included in the calculation. Calculation per assembly webinar
Automatically calculate	If enabled, results of the calculation are recalculated automatically if any change takes place. If the processing is slowed too much, the option can be disabled. In this case, the calculation must be rerun by manually clicking on "Edit - Calculate". The automatic calculation can be switched on and off in the calculation under "Functions" - calculate automatically" The option defined there, serves as a template, if the calculation is re-opened and the schema updated.
Block changes	If enabled, to the calculation in the calculation schema no new object can be included and an existing one cannot be deleted. This is important when working with the extended display.
Hide calculation schema	Hides calculation schema in the calculation
No scale prices	If enabled, only a sales prices can be entered, which applies for all lot sizes. In this case, all other sales price fields are locked. If the sales price is changed for scale 1, this applies for all other scales.
Always determine current material prices	If active, material prices are determined anew at the moment of calculation. If active, the material price can not be changed in Precalculation, as it is always determined automatically. This is very computationally intensive. That why it is disabled by default. If disabled, the price entered in material position is used. The price is determined at the moment of the calculation.

© 2026 Boyum IT Solutions A/S

	This option is considered also for pricing of external operations. *(beas9.0-004-053)* Note: this option is not taken into account at batch-Precalculation. *beas9.0-000-003-010*

Delete: With this button you can delete the calculation schema.

go back to Calculation Schema

Calculation objects - Overhead costs tab

3.2.5.1.2 Calculation objects

The Overhead Costs tab lists all the calculation objects of the actual Calculation schema.

Calculation objects can be edited in the following areas:

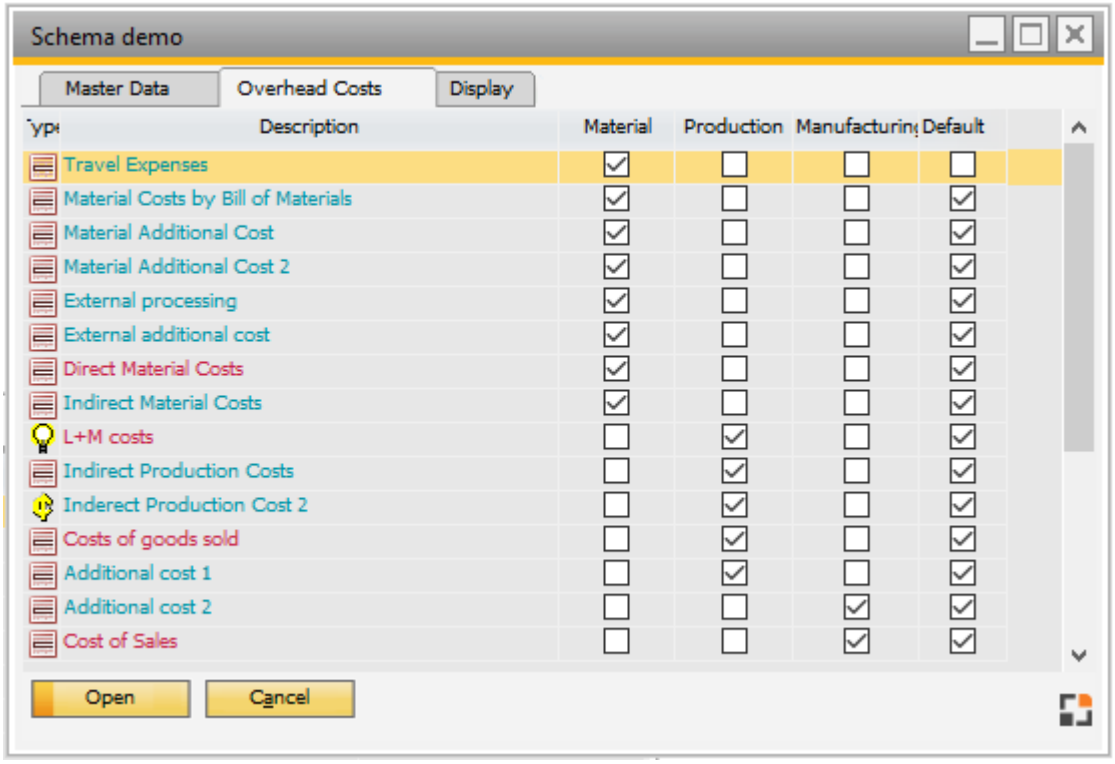
Administration > Setup > Precalculation

Edit of a calculation > Double-click a calculation object

All calculation objects will be displayed in the sequence to be considered via **Administration > Setup > Precalculation > Calculation schema > Overhead costs**.

The sequence can be changed using Drag&Drop.

© 2026 Boyum IT Solutions A/S



Window pk_typen_object_zuschlag_browse

Edit: Press this button (or double-click an object in the list) to edit a Calculation object.

See

cost elements, tool costs

go back to Calculation Schema

Master Data tab

Product cost determination

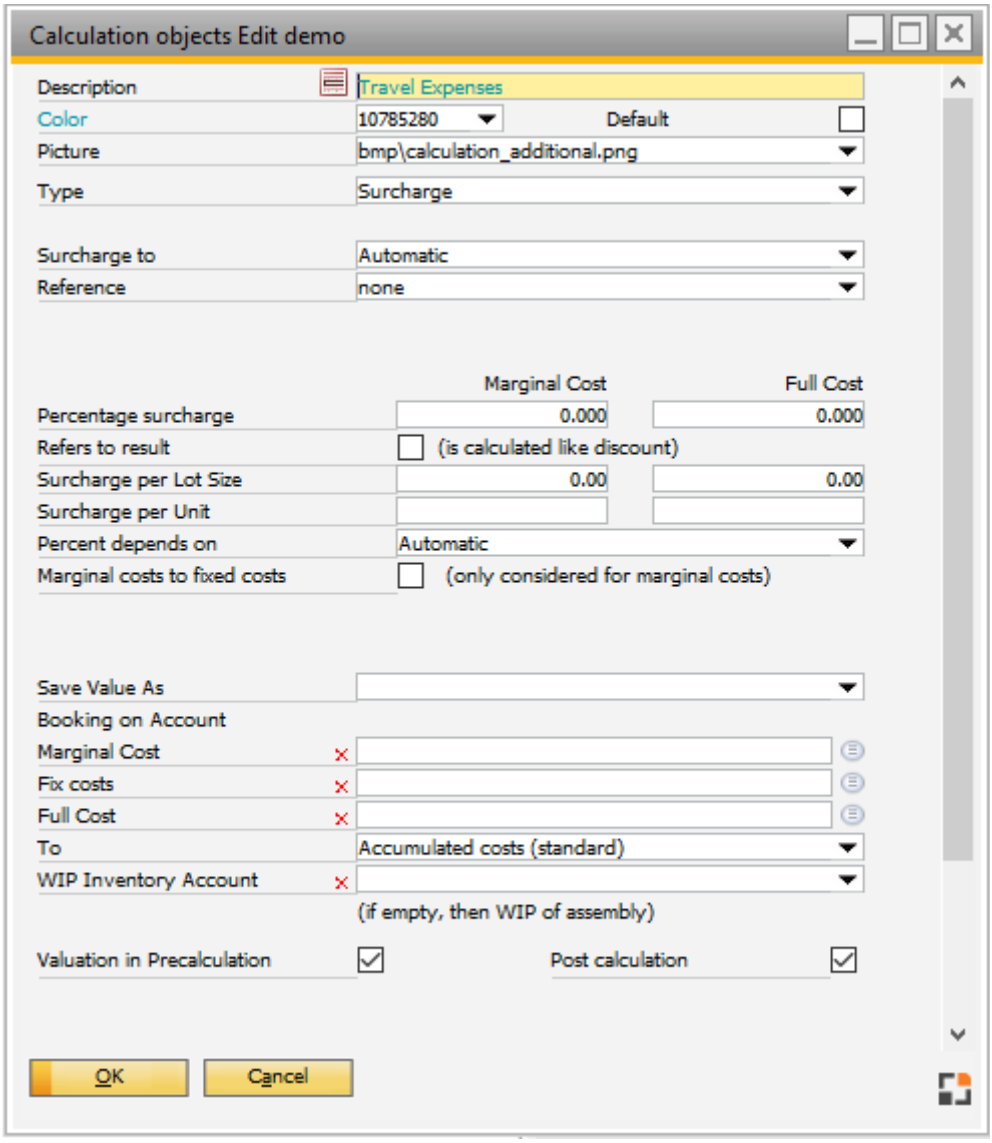
3.2.5.1.2.1 Calculation Objects Edit

This chapter is set to describe the different calculation objects in Beas.

In this window you can edit a calculation object of a calculation schema.
Only the fields available for this will be displayed depending on diverse settings if a calculation object is edited.

PATH: Administration > Setup > Precalculation > Calculation Schema > Edit schema > "Overhead Costs" tab > **Open** an entry.

© 2026 Boyum IT Solutions A/S



Window pk_typen_edit

Note: The calculation schema will always be copied from **Administration > Setup at a post-calculation**. Changes made in the Precalculation will not be considered in the post-calculation.

Type	Description
Description	Description
Color	Objects of different areas have the following colors Light blue: defined calculation objects (RGB 10785280) Red: Subtotal of the above objects (RGB 4793544) Blue: Sales price and revenue (RGB 11941650)

© 2026 Boyum IT Solutions A/S

	Colors can be adapted individually.
Image	This image is used to represent the object in all lists
Type	Determine the object type

Type	Description
Surcharge	Surcharge object: arbitrary surcharge as value or per cent or cost type ***see*** cost element
Material sum	Pure sum field: represents the material costs including outsourced operation costs.
Production sum	Pure sum field: Represents the sum of manufacturing costs
L + M costs	Pure sum field: sum of all material, production and surcharge costs calculated up to this position
Sales price acc. to entry	Represents the sales price. Option "Sales price according to default": if you don´t enter a sales price, the calculated gross full costs or gross marginal costs are used.
Margin amount	Represents the margin
Margin %	Represents the margin in %
Margin (hr)	Represents the margin per hour
Material costs without outsourced operation	Pure sum field: represents the material costs without outsourced operation costs.
Cost of External Operation	Pure sum field: represents the external operation costs

Surcharge to	Charge to which area?

Charge to" can only be configured in the "Total Cost Field" object type

Type	Description

© 2026 Boyum IT Solutions A/S

	Material Costs: Charge to material costs Non Material Mfg Cost: Charge to manufacturing costs Production Cost: Charge to production costs Cost of Sales: Charge to cost of sales Net Sales Price: Charge to net sales price Gross Sales Price: Charge to gross sales price Price from Offer: Charge to price from offer Basic Material Costs: Charge to source material costs Automatic: Automatic calculation (preferred setting)
Reference	What is the object referring to ? "Reference" can only be configured in the "Total Cost Field" object type

Type	Description
Loading for material	Material surcharge costs (surcharges are defined in the material group of the material).
Cost of tools	Tool costs (currently can only be determined via cost element) – ***see*** Tool.
No	Manual input of surcharges as amount and / or percent at marginal and full costs.
Material price as per BOM	Material costs without external operation costs.
Non Material Mfg Cost for WO Stat.	Non Material Manufacturing Cost.
cost of External Operation	Cost of External Operation.
Net weight	Weight surcharge calculation at net weight (does not currently work).
Gross weight	Weight surcharge calculation at gross weight (does not currently work).

© 2026 Boyum IT Solutions A/S

	<table><tr><td>Calculated Shipping Costs</td><td>Shipping cost calculation (does not currently work)</td></tr><tr><td>Cost element</td><td>Sum of the cost element to be defined here. This can be used to perform an analysis for setup, processing, tool costs, wage costs, etc.) ***see*** cost elements, tool costs.</td></tr><tr><td>Cost element surcharge</td><td>Surcharge sum of the cost element to be defined here. The surcharges are defined in **Master data > Cost element .**</td></tr><tr><td>Cost element group</td><td>Sum of cost element group (sum of all cost elements in this group).</td></tr><tr><td>Cost group surcharge</td><td>Sum of cost element group (sum of all cost elements in this group).</td></tr><tr><td>Script</td><td>surcharge is calculated with a script. A script management is available, which can be called up via selection feature in this field ***See*** Scripting.</td></tr></table>
Cost element	For reference "Cost element" and "Cost element surcharge" only - Determines which cost element sum should be considered.
Time requirement display	For reference "Cost element" only - should the time requirement planned for this cost element be displayed in the calculation (visually only)
Cost element group	For reference "Cost element group" and "Cost element group surcharge" only – determines which cost element group sum should be considered.
Script	For reference "Script" – Determines, which script to use for surcharge calculation. ***See*** Scripting, Scripting Precalculation, Scripting Post-calculation
% Surcharge	Only visible for reference "None": determines the percentage value of the surcharge at marginal and full costs
Surcharge per lot size	Determines fixed value of surcharge added per lot size at marginal and fixed costs **Precalculation**

© 2026 Boyum IT Solutions A/S

Value refers to lot size of the item to be calculated. If the item has no lot size, the calculation lot size applies.

Example:
Lot size: 10
Surcharge per: 5€ (in this case per 10)
View per: 100
Displayed: 50€ for 100

Production Price calculation
Lot size depends on valuation method
Example: Price per Lot size = 100€, Work order: 10 Pcs
Calculation for plan costs: Projection is always on

Example: Receipt same quantity as planned

Receipt Qty	Close	Projection off	Sum (*1)	Projection On (*2)	Sum *1)
2		100€	100 €	Lot size price 100€ / 10 Total Qty * 2 Receipt Qty) = **20€**	20€
3		0	100 €	**30€**	50€
5	x	0	100 €	100€ - previous total (50 €) = **50€**	100 €

(*1) Valuation type Post calculation: The system calculate always the complete sum (Accumulated) and divide at end all previous costs
(*2) Valuation type Plan calculation: Always use "Projection on". Always calculate per receipt quantity.

Example: Receipt less than planned

Receipt Qty	Close	Projection off	Sum (*1)	Projection On (*2)	Sum *1)
2		100€	100 €	Lot size price 100€ / 10 Total Qty * 2 Receipt Qty) = **20€**	20€

© 2026 Boyum IT Solutions A/S

Receipt Qty	Close	Projection off	Sum (*1)	Projection On (*2)	Sum *1)
3		0	100 €	**30€**	50€
1	x	0	100 €	100€ - previous total (50 €) = **50€**	100 €

Example: Receipt more than planned

Receipt Qty	Close	Projection off	Sum (*1)	Projection On (*2)	Sum *1)
2		100€	100 €	Lot size price 100€ / 10 Total Qty * 2 Receipt Qty) = **20€**	20€
3		0	100 €	**30€**	50€
10	x	0	100 €	100€ - previous total (50 €) = **50€**	100 €

Surcharge per unit

- Refers to "surcharge per" per unit to be calculated

This is to define surcharge per unit.

- Unit definition (pieces/quantity)

Precalculation
Lot size given in Precalculation

Production post-calculation
Planned value: quantity as per manufacturing position quantity in warehouse units
Actual value: total posted quantity

Assembly valuation
Partial posting / Calculation object: quantity to be posted in

© 2026 Boyum IT Solutions A/S

	Partial posting / Summation: already posted + quantity to be posted in Final posting / Calculation object: quantity to be posted in Final posting / Summation: already posted + quantity to be posted in Note on valuation at planned costs: Only the posted quantity is valued, not the planned quantity. At final valuation (upon closing the work order) the total planned quantity is taken as reference. ***Example 1:*** Surcharge per unit: 5 € 1. Partial posting 2 pieces: 10€ on object, 10€ in sum 2. Partial posting 2 pieces: 10€ on object, 20€ in sum Because an account can be stored in calculation object, it is mandatory to calculate costs for posting. ***Example 2***: Calculation at post-calculation price Referring to example 1 costs are booked to the the given account 1. partial posting 2 pcs = 2*5 = 10€ 2. partial posting 2 pcs = 2*5 = 10€ Calculation of L+M costs: 1. partial posting 2 pcs = 2*5 = 10€ 2. partial posting 2 pcs = 4*5 = 20€ Less the already posted 10€ = 10€ Even if the calculation type is different, the result is the same.
Percentage value relates to	Only visible for reference "None". Defines the sum to which the percentage value refers

© 2026 Boyum IT Solutions A/S

	Automatic	Refers to the last sum. If no intermediate sum is there, the first entry, which returns a value serves as reference.
	Price of material by Bill of Mat.	Refers to the material sum
	L + M costs (work sequence)	Refers to the manufacturing costs
	Cost of External Operation	Refers to the external operation costs
	Material- + Cost of external operation	Refers to the sum of the material costs and external operation costs
Save value as	Allow to save the result of this object separately in batch calculation result table	
Booking on account (marginal costs, fixed costs, full costs)	If an account is stored here and in the **Configuration wizard > Production > Valuation Assembly > Valuation > Post overheads for partial delivery** is NOT set to "No posting" and continual inventory maintenance is activated, the accounts specified here are credited and the WIP account debited at the time indicated there. The cost rate at marginal costs, fixed costs (= full costs - marginal costs) or full costs can be used.	
To ...	To accumulated or planned costs Refers to the account to be debited: Defines the amount to be posted:	
	Accumulated costs	The actually accumulated costs are posted (actual value)
	planned costs	The planned costs as per precalculation are posted
	planned for partial delivery, other accumulated	Can only be used if posting of overheads to "For assembly receipt" is activated.

© 2026 Boyum IT Solutions A/S

	<table><tr><td>Accumulated costs</td><td>The actually accumulated costs are posted (actual value)</td></tr><tr><td></td><td>For partial delivery, the planned value (target value) is posted, otherwise the accumulated costs (actual value).</td></tr></table>
WIP inventory account	If the amount is not posted to the WIP inventory account of the assembly to be produced, the WIP account to which postings are made can be defined here. Option is only visible if in **SAP > Administration > System Initialization > Document Setting > Per Document > "Production Order" "Component WIP Accounts** ' is activated.
Valuation in precalculation	If deactivated, the object is displayed in the precalculation but not valued.
Valuation in costing analysis	If deactivated, the object is NOT displayed in the precalculation and also not valued.
Refers to result	Determines whether the % value relates to the previous sum or to the reference sum (A) or to the reference sum + addition to be calculated. (B) (similar to calculation of discount or revenue) ***Example***: Switch deactivated, reference is A(100€) first sum 100 €+10% of A(10€) = 110 ***Example***: Switch activated, reference is B(110€) second sum 99€+10% of B(€ 11) € 110 = 110
marginal costs to fixed costs	⊟ The fixed cost surcharge determined in calculation of marginal costs is added to marginal costs. ***Example***: The fixed cost share of the labor costs shall be added at marginal costs calculation. Reference = manually Surcharge per cent = 100% for marginal and full costs Per cent refers to production costs according to the working sequence At marginal costs to fixed costs: activate

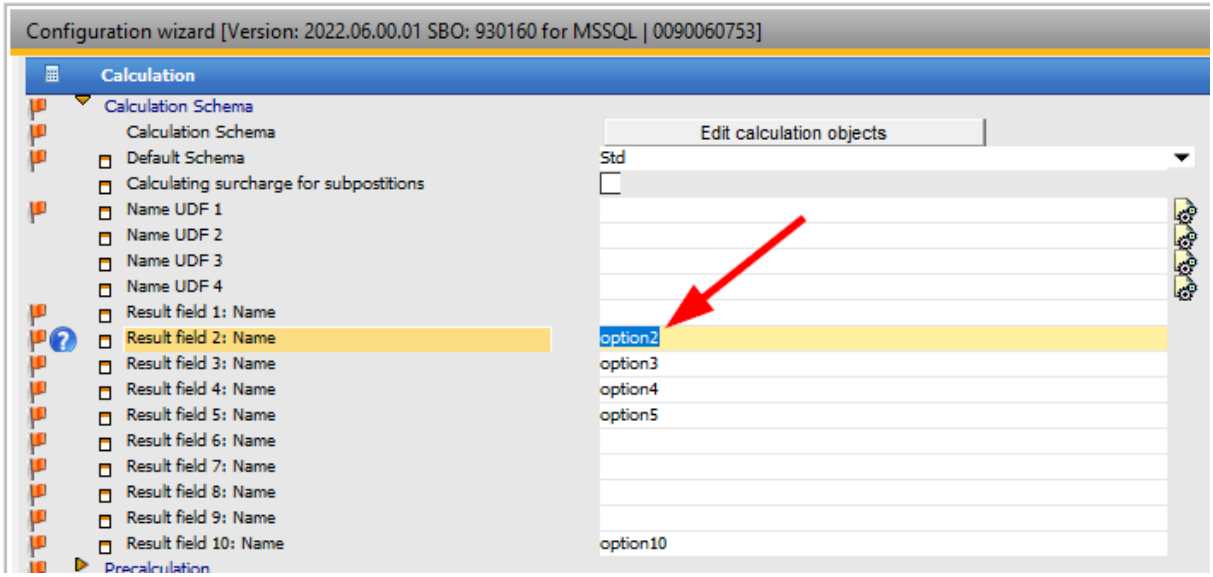
© 2026 Boyum IT Solutions A/S

	Production costs would be 60 (marginal costs) or 80 (full costs) At marginal costs calculation the 20 (100% full costs -100% marginal costs = the full fixed costs) are added up.
Post calculation	If this check box is selected, this calculation object is considered in Post calculation.

go back to Calculation Objects
Calculation Schema
Master Data tab

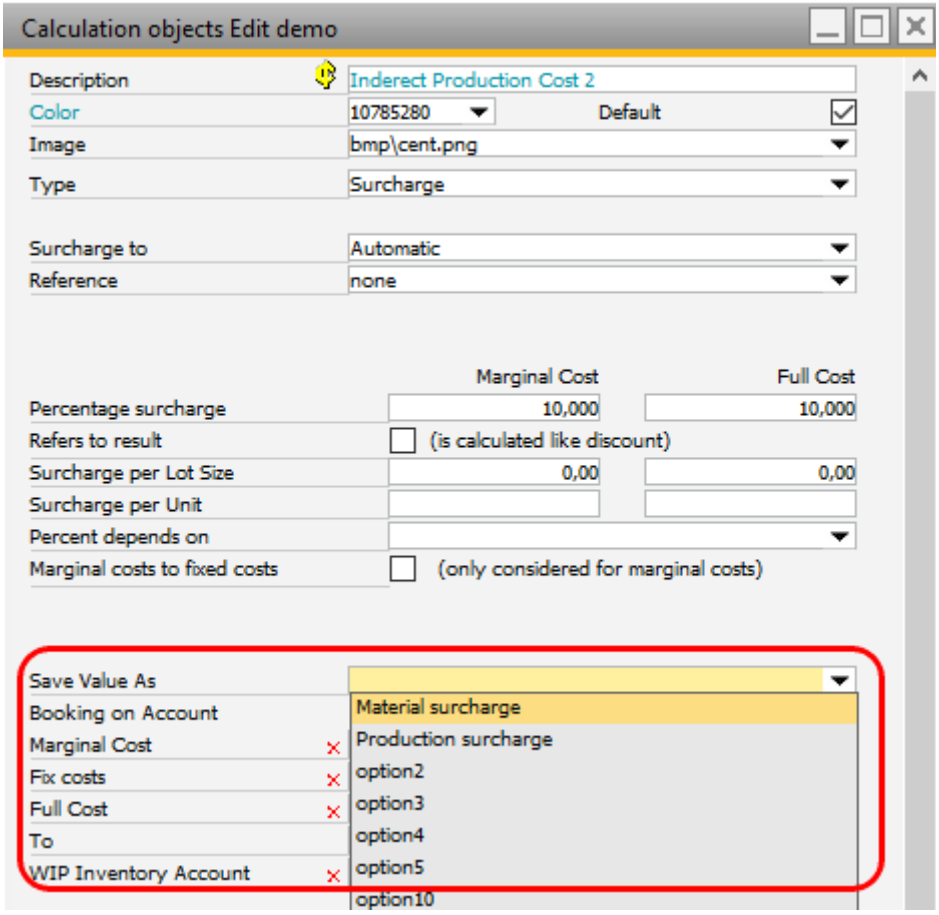
In Batch calculation and Precalculation - Extended view you have the possibility to save up to 10 values in the result table.

In the Configuration wizard you can define the Names:



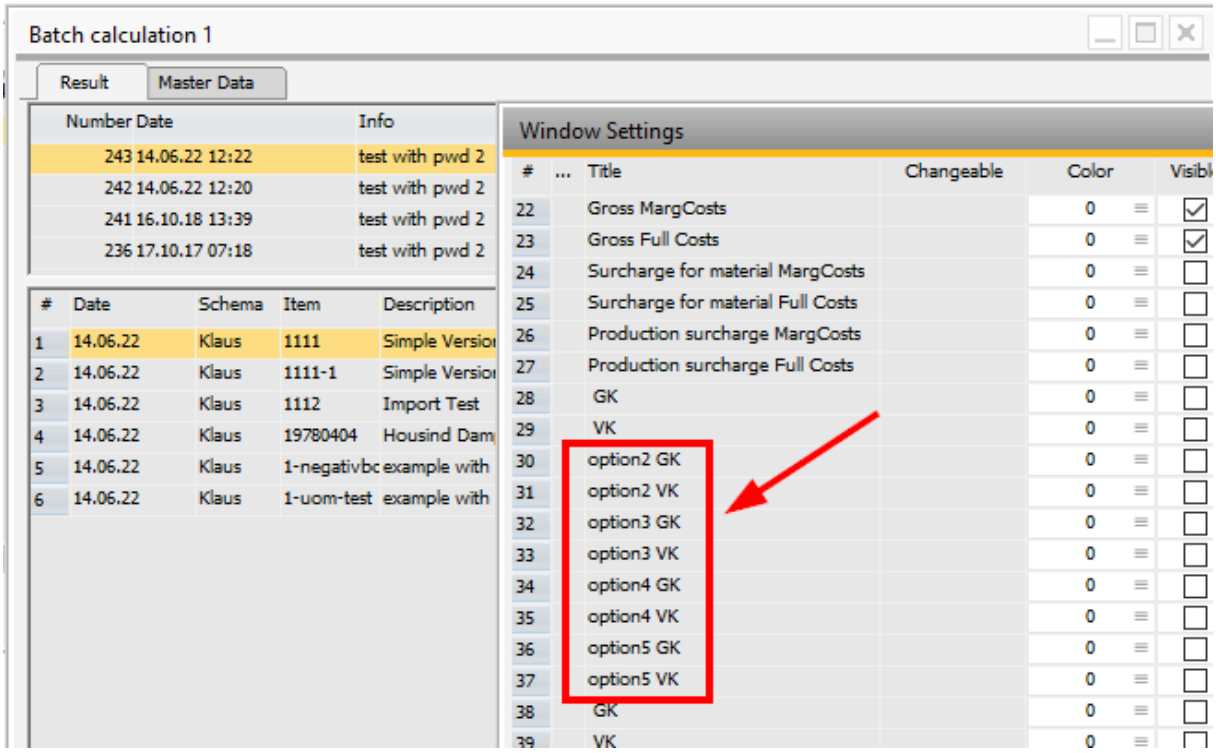
In the calculation schema object you can link this to a result field:

© 2026 Boyum IT Solutions A/S

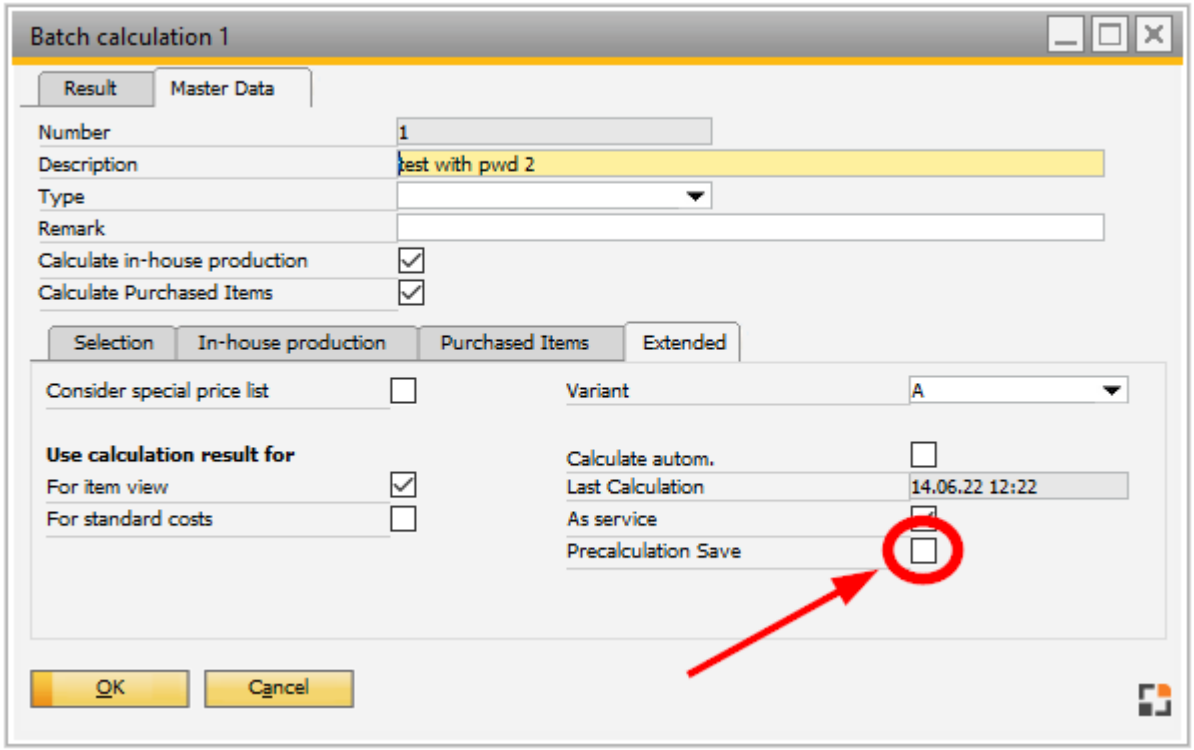


In the Result list of Batch calculation you can activate the result fields in window settings:

© 2026 Boyum IT Solutions A/S



Note: This is only working in batch calculation if "Precalculation Save" is disabled.



- Example: save Tool Cost in separate field

© 2026 Boyum IT Solutions A/S

The tool costs are to be separately accounted for in the results list of the batch Precalculation / batch costs analysis.
1. Entry in results field 1: "Cost of tools".
2. Creation of cost element tool.
3. Assignment of the tool costs in this cost element (tool management).
4. Calculation Template: New overall cost object type “cost element”, select cost element “tool”, save under "Cost of tools".
All tool costs are now shown in the “Cost of tools” column.

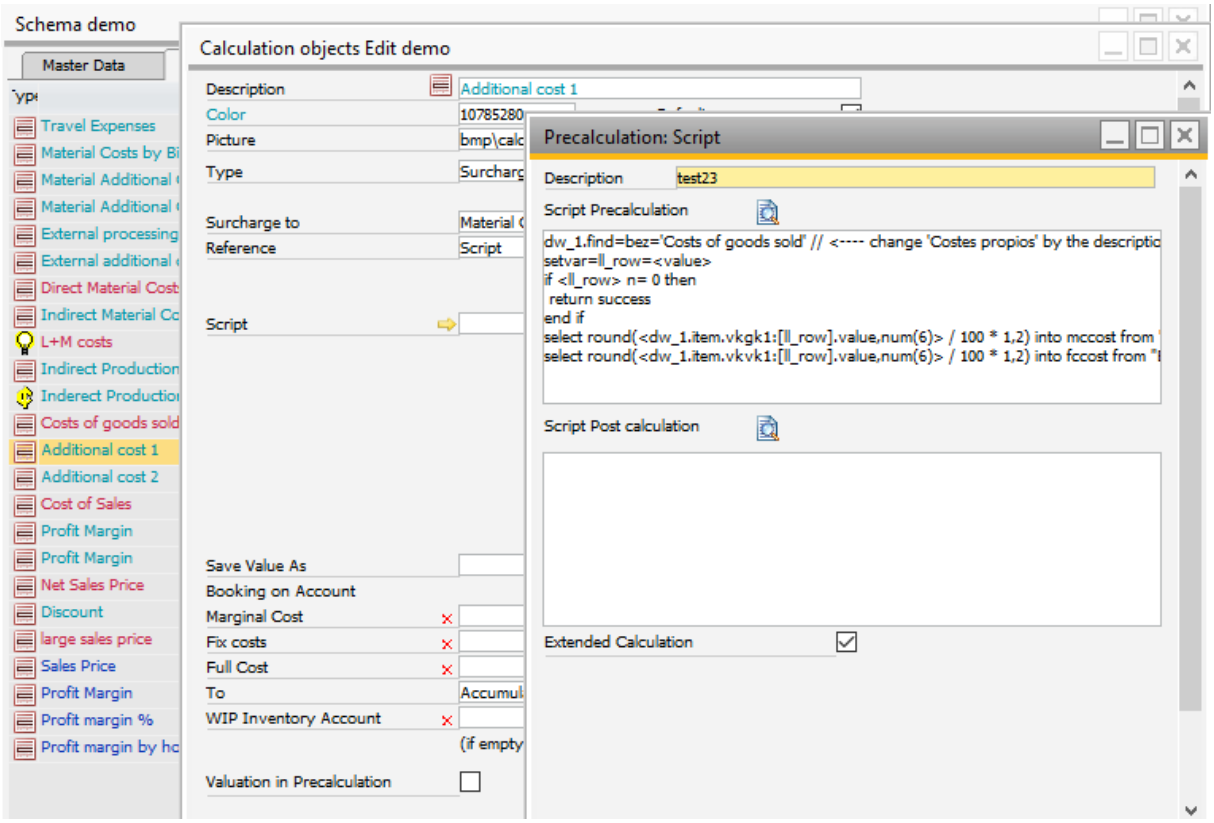
see Precalculation - Concept extended view
Calculation per assembly webinar

With scripts you can change various Calculation objects, or make them programmable. In these you can determine the surcharges or designation using MSSQL, VB, Java or Beas-Script or all of them.

PATH: Administration > Setup > Precalculation > Calculation schema > Overhead costs

1. **Open** an entry.
2. Select "Script" in the Reference field.
3. Select script from drop-down.
4. Double-click the yellow arrow.

© 2026 Boyum IT Solutions A/S



Window pk_scripting_edit.psr

Therefore, set up the following in Calculation object

Type = Surcharge

Reference = Script

Script = script to be executed. Click the selection icon to open a list of available scripts. You can view, edit and add scripts here.

> Note: Because Precalculation and Post-calculation are very different from each other, no script can be used for both of them. You need to define separate scripts.

Script window

Field	Description
Script Precalculation	Script to be executed at a Precalculation. ***See*** Scripting Precalculation.
Script Postcalculation	Script to be executed at a post-calculation. ***See*** Scripting Post-calculation.

© 2026 Boyum IT Solutions A/S

Extended calculation	Define whether the calculation should save all values in the background. **General button** (not script related) If a Precalculation or post-calculation is executed (eg. pricing at posting-in assembly) in the background, not all information is saved and thus there is no access to various information via script. **Active**: Precalculation or post-calculation saves also all information if started in the background. Thus the stored script can also access BoM information and routing information. The option should only be activated if you really need to access BoM information and routing information, as it can slow down the computation and needs more memory.

See

Scripting Precalculation

Scripting Post-calculation

Please consider for batch-calculations, that only fields relevant for calculation are filled: that means drawing number, designation additional identifier and other fields are not filled.

Scripting for calculation of surcharges in Precalculation. Entered in Script administration > **Edit > upper window**

For Pre- and for Post-calculation the scripts need to be created separately.

See

Calculation objects – Scripting

Scripting

Scripting post-calculation

Create script

Three writable variables are available for marginal costs, full costs and description. Special variables are available for accessing calculation results.

Writeable variables:

Variable	Descriptions
`fccost`	Set full costs for the current object.

© 2026 Boyum IT Solutions A/S

Variable	Descriptions
	Example: `setvar=fccost=<sum.fc.labor>`
`mccost`	Set marginal costs
`description`	Set description If values are added to the description, they will be entered regardless of the view lot size, for example: current lot size = 2, view per 10: the price for 2 pieces is entered, the remainder calculated for 10 pieces. By using <calc.lotsize> you can always scale down to 1 piece. However, the view lot size can not be considered. Furthermore, the description for marginal and full cost view is the same. In the example above, full costs are always independent of the current view.
`e_Row`	For which row in dw_1 the calculation is current running Normally e_Row is always 1. But if you activate "Calculation schema per Assembly", the system starts the calculation for every assembly. In this case you must check in your script if this is for the complete calculation (e_Row=1) or for a sub-assembly (e_Row>1) ***Example***: Read current ItemCode `setvar=my_ItemCode=<dw_1.item.st_itemcode:[e_Row].value>` *Beas 2020.03*

Example: Material cost + 5€

Example: set L+M costs

```
[vbs]
function ppercent (s)
ppercent=<sum.material,num(6)>/100*s
end function

[/vbs]
setvar=fccost=<vbs.ppercent(5)>
```

© 2026 Boyum IT Solutions A/S

```
setvar=mccost=<fccost>
setvar=description=Material Overhead 5% from <sum.material,#0.00> = <fccost,#0.00>
```

Variables: you can access the following special variables

`<sum.material>`	Material costs without costs for external operation
`<sum.manufacturing>`	External operation costs
`<sum.materialoverheads>`	Material surcharge
`<sum.mc.labor>`	L+M costs at marginal costs
`<sum.fc.labor>`	L+M costs at full costs
`<sum.mc.production>`	Material + External operation + L+M cost at marginal costs
`<sum.fc.production>`	Material + External operation + L+M cost at marginal costs
`<timetype.fc/mc/fx.[timetype]>`	Costs of a time type at full costs (fc), marginal costs (mc) or fixed costs (fx)

Example: marginal costs for time type „machine“
`<timetype.mc.machine>`

Configuration: <timetype.[typ].[timetype-id]>

Available tpes [typ]

`fc`	Total full costs incl. external operation
`mc`	Total marginal costs incl. external operation
`fx`	Total fixed costs (Full costs – marginal costs)
`time`	Total time
`mcsurcharge`	Total - surcharge marginal costs
`fcsurcharge`	Total - surcharge full costs
`mcexternal`	External operation at marginal costs
`fcexternal`	External operation at full costs. This can also be prices from external operations or tool costs

These costs can be split up even further into setup time, processing time etc.

© 2026 Boyum IT Solutions A/S

<table>
<tr><td><sum.material></td><td>Material costs without costs for external operation</td></tr>
<tr><td></td><td>
<table>
<tr><th>Setup time</th><th>Time/unit 1</th><th>Time/unit 2</th><th>Time/unit 3</th><th></th></tr>
<tr><td>fctr</td><td>fcte</td><td>fctn</td><td>fcth</td><td>Full costs without external operation</td></tr>
<tr><td>mctr</td><td>mcte</td><td>mctn</td><td>mcth</td><td>Marginal costs without external operation</td></tr>
<tr><td>timetr</td><td>timete</td><td>timetn</td><td>timeth</td><td>Time in minutes</td></tr>
<tr><td>mcsurchargetr</td><td>mcsurchargete</td><td>mcsurchargetn</td><td>mcsurchargeth</td><td>Surcharge setup costs at full costs</td></tr>
<tr><td>fcsurchargetr</td><td>fcsurchargete</td><td>fcsurchargetn</td><td>fcsurchargeth</td><td>Surcharge setup costs at marginal costs</td></tr>
</table>
</td></tr>
<tr><td><calc.lotsize></td><td>Currently calculated lot size</td></tr>
<tr><td><calc.line></td><td>Current assembly to be calculated (usually 1)</td></tr>
<tr><td><calc.docentry></td><td>Calculation number. If <= 0, temporary calculation</td></tr>
<tr><td><calc.precalcnr></td><td>Calculation number, linked to an offer, sales order or advance invoice via field „u_beas_precalcnr
There is no 1:1-linkage to a customer order. A calculation can be stored in several documents.</td></tr>
<tr><td><calc.cardcode></td><td>Client number, stored in calculation</td></tr>
<tr><td><dw_1.item.[fieldname].value></td><td>Access to fields from current calculation
with <dw_1.xxx> you have access to all fields.

Scan all fields:
for ll_loop = 1 to <dw_1.rowcount>
ls_test=<dw_1.item.pos_text:[ll_loop].value>
next</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

<sum.material>	Material costs without costs for external operation

	Note:
	for - next - loop is slow. It is better to work with the "find" command.
	`dw_1.find=pos_text='xxx'`
	`setvar=ll_row=<value>`
	`ls_text=dw_1.item.info:[ll_row].value`
	
	Available fields:
	Open the Precalculation and check the field names with the debug window.
	
	Batch Calculation:
	The system only fills fields that are needed for calculation.
	Example:
	The following fields are not filled: `UDF1-15, st_info, info, znr (Drawing Number), info, bez (Item Name), color, bitmap`
	If you need access to this field, you must activate **Batch Calculation -> Extented -> Precalculation Save.**

Place holders return values in Windows regional format with 6 digits.

- ***Example***

© 2026 Boyum IT Solutions A/S

Setup time time type „Machine“ at full costs	setvar=fccost=<timetype.fctr.machine>
Processing costs time type “Personnel” + “Labor” at marginal costs	setvar=mccost=% numadd(<timetype.mcte.labor>,<timetype.mcte.personell>)

Example with declared variables	// If no variable is declared with „dec“ or „decimal“,
	// you can continue to calculate with these in „datawindow-Syntax“
	// but a conversion into international format is necessary
	
	dec fcsum
	fcsum=<timetype.fc.machine,num(6)>
	fcsum=<fcsum,num(6)> + (<fcsum,num(6)> / 100 * 5)
	setvar=fccost=<fcsum,#0.000000>

Example with VB Script	// Working with beas-Script-Formula system, SQL-Script,
	// VB-Script or JavaScript, variables nmeed to be converted by num(x)
	
	[vbs]
	function ppercent (s)
	ppercent=<sum.material,num(6)>/100*s
	end function
	[/vbs]
	
	setvar=fccost=<vbs.ppercent(5)>
	setvar=mccost=<fccost>
	setvar=description=Material Overhead 5% from <sum.material,#0.00> = <fccost,#0.00>

Complex example:
"Item amount in sales units"
* value from item value "SWW"
* Cost rate from first operation
* current lot size
	// Amount in sales units of the item to be produced
	// (First row of DW_1)
	select "NumInSale" into :ll_numinsale from "OITM" where "ItemCode" = <dw_1.item.st_itemcode:1.value,dbstring>
	// Position first operation
	// (row type)
	// "find" is easier than for - next
	dw_1.find=art=52
	setvar=ll_row=<value>
	if <ll_row> n= 0 then
	  return success
	end if
	// Use SQL statement to compute the value, write with "into" directly to
	// the correct variable
	// from BEAS_DUMMY is important, as without "from" "into" does not work
	// Marginal/Full costs are taken from the operation

- Complete example of use

The calculation puts out the setup time of a machine + setup time of employee and processing time of machine + processing time of employee separately.
In this example 3 cost types have been registered. Also one cost type would be sufficient. Cost elements have been extended to 2, and personnel costs are valued separately. Cost types are assigned and cost centers have been stored. 2 formulas have been entered.

Setup:

// setup-time from machine and personnel
setvar=fccost=%numadd(<timetype.fctr.machine>,<timetype.fctr.personell>)
setvar=mccost=%numadd(<timetype.mctr.machine>,<timetype.mctr.personell>)
setvar=description=Total setup Time <timetype.trtime.machine,#0> Min

Processing:

// Edit-Time from labor and personnel
setvar=fccost=%numadd(<timetype.fcte.labor>,<timetype.fcte.personell>)
setvar=mccost=%numadd(<timetype.mcte.labor>,<timetype.mcte.personell>)
setvar=description=Total Processing Time <timetype.tetime.labor,#0> Min

Afterwards, surcharge objects need to be defined, in which these formulas are stored. Then, the requested result is put out correctly.

Additional information are available in the post-calculation. The calculation is executed differently as in the Precalculation. That is why the script must be created separately for the post-calculation.

Note:
No all variables are available in DataWindow dw_1 if the calculation results in the background (eg. at a posting-in assembly)

- Available variables:

© 2026 Boyum IT Solutions A/S

Only a limited amount of fields is available if the calculation is executed in the background (Batch-post-calculation or assembly valuation) .

beas 9.2 PL: 01 and older
No information is saved.

beas 9.2 PL: 02
Bill of materials art (50) s_level, belnr_id, belpos_id, pos_id, itemcode, art, ke (=prcmntmtd) and all result values
routing: art (52),aplatz_id, s_level, belnr_id, belpos_id, pos_id and all result fields

If you activate the option "**extended calculation**" all fields are available, the calculation may take some more time.

Note: If you need to access material or routing positions via script, **extended calculation** is required.

Per calculation object the script is executed four times. In variable <sum.typ> is is stored, which value is calculated currently:

`mc.plan`	Planned costs at marginal costs
`mc.actual`	Current costs at marginal costs
`fc.plan`	Planned costs at full costs
`fc.actual`	Current costs at full costs

The following variables are available:

`sum.typ`	What is calculated (*see* above)
`sum.material`	Material costs without surcharges, without external operations
`sum.labor`	L+M costs
`sum.manufacturing`	Cost of external operation
`sum.production`	Production costs - including all surcharges until this calculation object
`sum.quantity`	At `mc.typ` = `mc.plan` or `fc.plan` the planned quantity, otherwise the current quantity At projections always the projection quantity

© 2026 Boyum IT Solutions A/S

You can set the following values:

`cost`	Surcharge costs - separately for the currently calculated value (see sum.typ).
`description`	Description - transferred from the latest set value.

Available basic variables

Note: It is not mandatory to set these variables. If empty, default values are used.

`e_von`	Valuation considered from date
`e_bis`	Valuation considered to date
`e_batch`	J = Batch-calculation - no output on screen
`e_schema_id`	Default - Calculation schema, if empty, automatic determination
`e_postcalcquantity`	set only in case of single step calculation: Conversion to the defined quantity independent from planned or reported quantity
`e_receiptquantity`	Is set, if the calculation is called up at posting in goods. The quantity to post in is entered
`e_postcalcorder`	Determines, whether purchase orders for external operations are to be considered. True or J = consider, false or N = not to consider
`e_costrate`	Alternative resource cost rates
`e_onelevel`	Determines the extended pricing of storage related sub-assemblies in post-calculations (setup: onelevelcalc) S=Standard, V=determine prices from last Precalculation
`str_parm.belnr_id`	Document number (BEAS_FTHAUPT.BELNR_ID)
`str_parm.belpos_id`	Document position (BEAS_FTPOS.BELPOS_ID) If 0, all document positions

Furthermore, you can access all values of dw_1.

Note: Not all fields are filled for calculations running in the background (for example, when posting in an assembly).

Example

© 2026 Boyum IT Solutions A/S

```
// Get Information from Item Master data and calculate this with udf1 from first
resource
//
// Get information from item
select "NumInSale","SWW" into :ll_numinsale,:ls_meterprobox from "OITM" where
"ItemCode" = <dw_1.item.itemcode:1.value,dbstring>

// search for first labor position
dw_1.find=art=52
setvar=ll_row=<value>
if <ll_row> n= 0 then
 return success
end if
// get udf1 from resource
select UDF1 into :ls_meterpreis from BEAS_APLATZ where
APLATZ_ID=<item.aplatz_id:[ll_row].value,dbstring>
if <ls_meterpreis,#0.000000> n= 0 then
 setvar=ls_meterpreis=1
end if
// udf1 is a text field. Replace comma with dot
tools=globalreplace=ls_meterprobox=,=.
// current calc quantity
lc_qty=<sum.quantity,#0.000000>
// check null
if <lc_qty> n= 0 then
  setvar=lc_qty=0
end if
// calculate and write back to variable cost (see "into cost"
select <ls_meterprobox,num(6)> * <ll_numinsale,num(6)> * <ls_meterpreis,num(6)>
* <lc_qty,num(6)> into cost from BEAS_DUMMY
```

Example: L+M Cost always to Planned costs

```
if <sum.typ> = mc.plan or <sum.typ> = mc.actual then
  setvar=cost=<dw_1.item.soll_fkgk:1.value>
  return success
end if
setvar=cost=<dw_1.item.soll_fkvk:1.value>
```

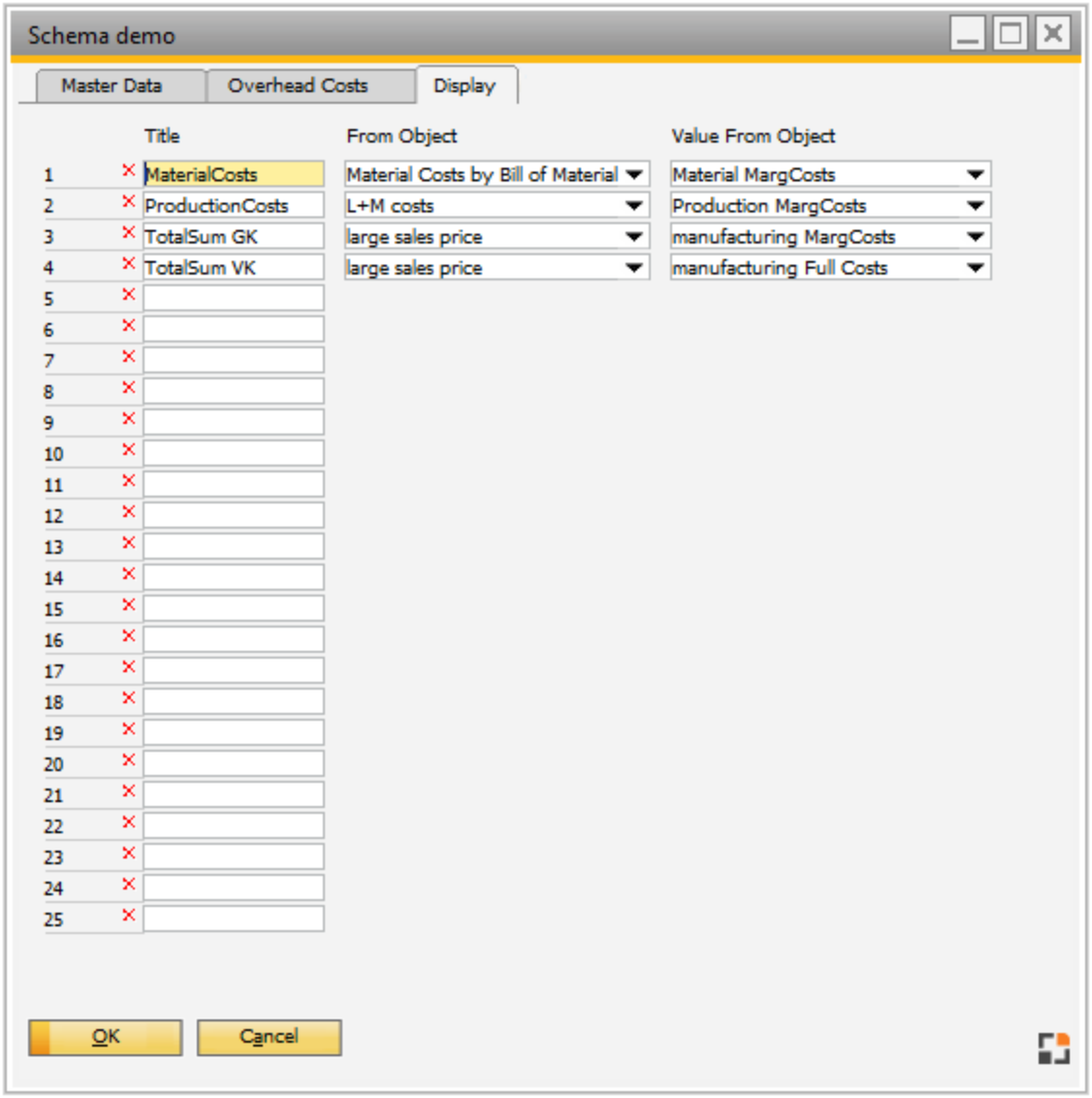
(beas9.1-004-064-000)

3.2.5.1.3 Display

In this tab you can define how the Calculation should be displayed.

PATH: Administration > Setup > Precalculation > Calculation Schema > **Open** schema > "Display" tab

© 2026 Boyum IT Solutions A/S



Window pk_schema_userformel.psr

The view is defined in the calculation schema in tab "Display". Up to 20 result fields are available. These results are always referring to the calculation schema.

Use this to have for example separate calculations per assembly.

See

Calculation schema – surcharge per item

Precalculation – Concept of extended view

Define the following:

Field	Description

© 2026 Boyum IT Solutions A/S

Header/Title	Header to be displayed
From Object	To show result from which calculation object OR from which variable: In the calculation object there is the column "save as" : there you can select "Material overhead costs", "manufacturing overhead costs" or up to 4 freely definable fields. If for more than one calculation object this variable is selected, the value is summed up. This way, sums or values can be displayed which are not incorporated in the result. Subtract from column 1: In first column for example sales price, in columns right to it the price less various selectable costs. That way any intermediate result can be displayed. Sum up: from the first column on everything is added. Using this object, from left to right the accumulated intermediate sum can be displayed.
Value from object	Only visible, if for "from object" a calculation row was selected. Here you can select, which value to be displayed from the selected row. Available: • total surcharge of the row at marginal fixed or full costs • percentage of row surcharge at marginal fixed or full costs, as surcharge value or standard value material costs at at marginal fixed or full costs • L+M costs at marginal fixed or full costs • costs of goods sold at marginal fixed or full costs (for object "sales price" this is the stored sales price or the calculated sales price at full costs. At "contribution margin" the calculated value

back to Precalculation

Calculation per assembly webinar

3.2.6 Production

PATH: Administration > Setup > Production.

Production settings:

© 2026 Boyum IT Solutions A/S

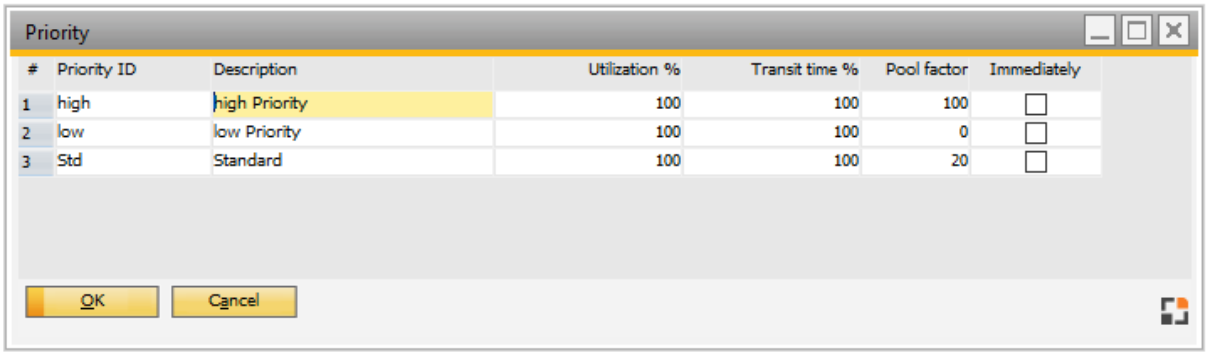
Priority
Precalculation view
Scrap reasons
Interruption reasons
Cost elements
Shift schedule for resources
Production types
Operation types
Operation catalog

3.2.6.1 Priority

The sequence of processing as well as the throughput time of the work orders is controlled via priorities.

PATH: Administration > Setup > Production > Priority.

Priorities affect capacity planning including throughput time calculation, as well as pool control.



Window basis_prioritaeten_browse.psr

You can use Window settings and Templates for the configuration.

In Item and in Work Order a priority can be stored. The higher the number, the higher the priority is.
If a priority is stored in the order, it has precedence.
In case of multilevel calculation, the priority is passed on to the demand items.

Field Description

Field	Description
Priority	Unique identification of the material group.

© 2026 Boyum IT Solutions A/S

Information	Arbitrary text describing the priority.
Utilization %	Percentage to which a resource may be utilized on a work day. The greater the value the greater the throughput time is. ***Example:*** If the resource has 8 hours for 1 machine, a utilization of 120% means that the machine can be scheduled for max. 9.6 hours for this order per day. ***See*** Expand and compress. Note: If this is not 100%, the system uses calculation method Exploit full capacity.
Transit time %	Transit time between resources. The corresponding default is used if set to 100%. The transit time can be reduced by minimizing the % amount and it can be maximized respectively. The following applies: The smaller the percentage value is, the faster the throughput will be. ***Example:*** At a defined transit time of 6 hours and 50% transit time, a time of 3 hours is calculated. ***see*** Transit time
Pool Factor	In priority definition in pool control, the orders are aged by this factor. Basic rule: The higher the pool factor is defined, the higher the priority is. The sort order can be controlled using the pool factor. Simply enter a very high number here for instant orders. ***See***

© 2026 Boyum IT Solutions A/S

	Introduction Pooling Function Pooling, Scheduling
Immediately	If this option has been activated, the order always has first priority, regardless of whether it can be produced.

Functions

Function	Description
Add	Add a priority line to edit.
Remove	Remove selected priority from the list.
Change Log	Open the Change log to see a history of changes.

You can define the default priority in Configuration wizard > Production > Create.

3.2.6.2 Pre-calculation view

The view is defined in the calculation schema in tab "Display". Up to 20 result fields are available. These results are always referring to the calculation schema.
Use this to have for example separate calculations per assembly.

See

Calculation schema – surcharge per item
Precalculation – Concept of extended view

Define the following:

Field	Description
Header/Title	Header to be displayed
From Object	To show result from which calculation object OR from which variable: In the calculation object there is the column "save as" : there you can select "Material overhead costs", "manufacturing overhead costs" or up to 4 freely definable fields. If for more than one calculation object this variable is selected, the value is summed up. This way, sums or values can be displayed which are not incorporated in the result.

© 2026 Boyum IT Solutions A/S

	Subtract from column 1: In first column for example sales price, in columns right to it the price less various selectable costs. That way any intermediate result can be displayed. Sum up: from the first column on everything is added. Using this object, from left to right the accumulated intermediate sum can be displayed.
Value from object	Only visible, if for "from object" a calculation row was selected. Here you can select, which value to be displayed from the selected row. Available: • total surcharge of the row at marginal fixed or full costs • percentage of row surcharge at marginal fixed or full costs, as surcharge value or standard value material costs at at marginal fixed or full costs • L+M costs at marginal fixed or full costs • costs of goods sold at marginal fixed or full costs (for object "sales price" this is the stored sales price or the calculated sales price at full costs. At "contribution margin" the calculated value

back to Precalculation

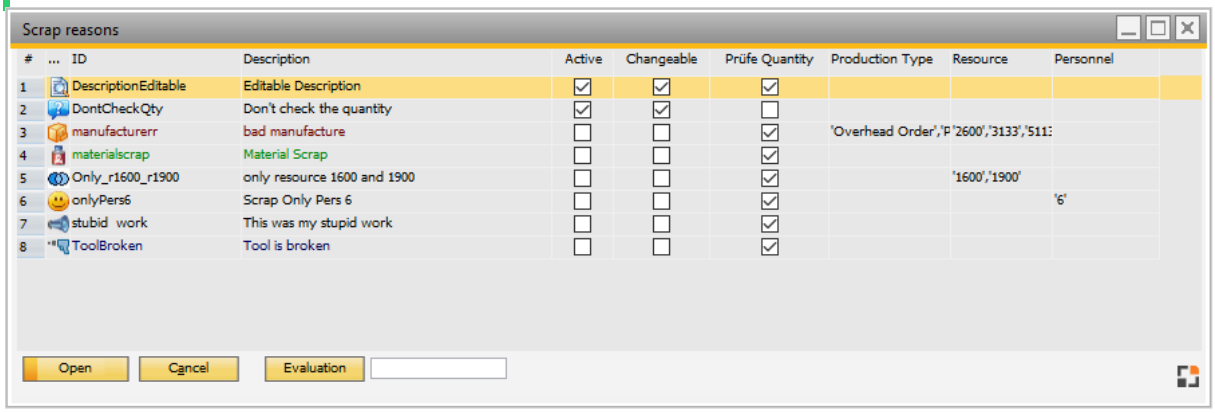
Calculation per assembly webinar

3.2.6.3 Scrap Reasons

Scrap reasons can be indicated at the time receipts. To do so, click the button "Scrap" left before the "scrap" field in time receipt.

The scrap reasons are defined here. Window settings and templates are supported.

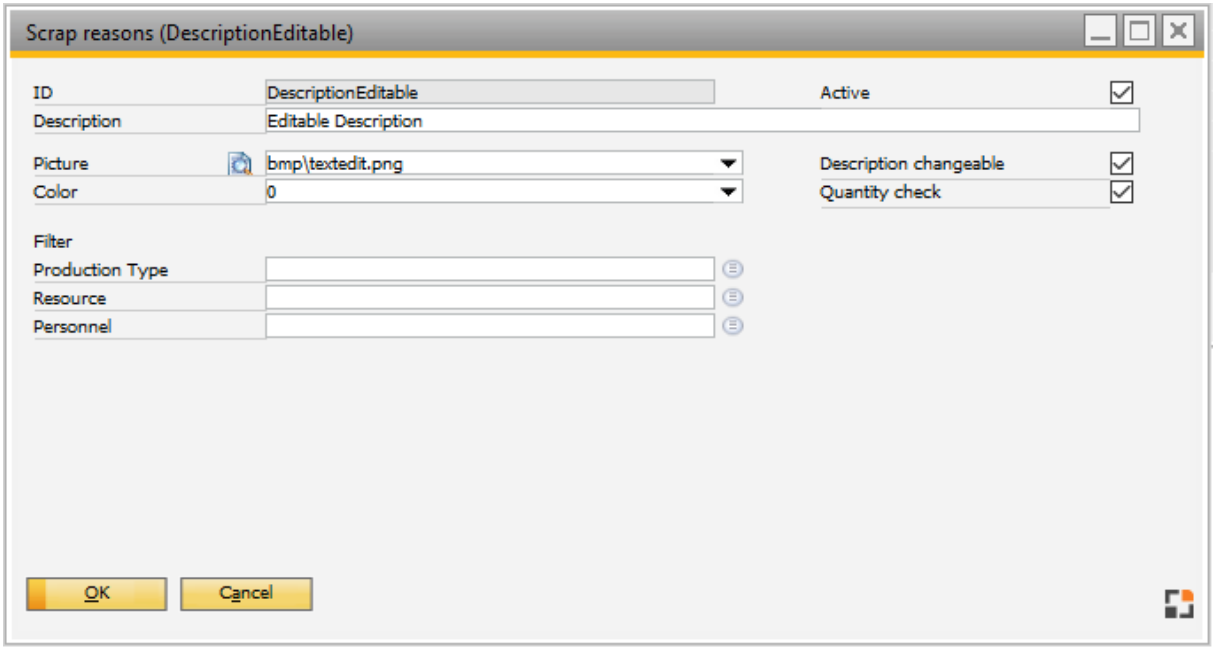
PATH: Administration > Setup > Production > Scrap reasons.



© 2026 Boyum IT Solutions A/S

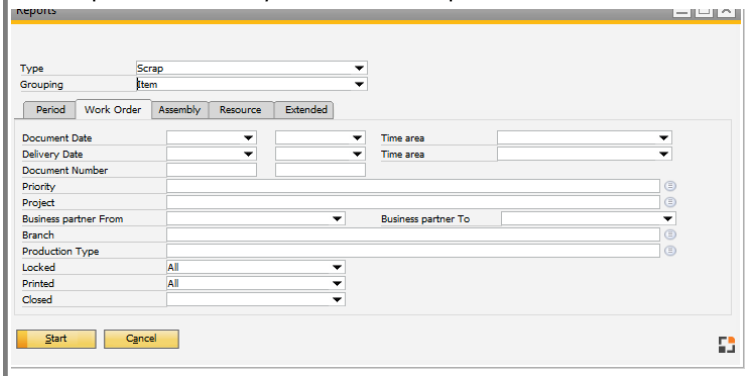
Window stamm_reasonforscrap_browse.psr

Click **Open** to edit a scrap reason:



Window stamm_reasonforscrap_edit.psr

Functions

Function	Description
Add	Add a priority line to edit.
Remove	Remove selected priority from the list.
Evaluation	Open Reports This report is an analysis on the scrap reason.  *Window fert_report_parameter.psr*

Field description

© 2026 Boyum IT Solutions A/S

Field	Description
ID	ID of the scrap reason.
Description	Description of the reason.
Active	Entry is only selectable if it is activated.
Description changeable	The description will be used for the time receipt. The user can change the description if this option is enabled.
Check quantity	If active (by default) the indicated quantity will be added to the total scrap quantity. If not active: the indicated quantity will be ignored. If no scrap reasons are registered with this enabled option, the quantity of the order time receipt will not be changed.
Filter Production Type	Only selectable for selected production types. If nothing was selected, scrap reason is independent from the production type.
Filter Resource	Only selectable for selected resources. If nothing was selected, scrap reason is independent from the resource.
Filter Personnel	Only selectable for selected personnel numbers. If nothing was selected, scrap reason is independent from personnel numbers.
Image	You can store an Icon here to be shown at the pick list.
Color	The font color can be defined here.
UDF 1...4	Free available fields which can be defined in **Configuration wizard > Production > Master data >** Scrap reasons.

3.2.6.4 Interruption Reasons

PATH: Administration > Setup > Production > Interruption Reasons.

Interruption times can be reported at the terminal. Interruption times are resource-related (machine) and are documented there as well.

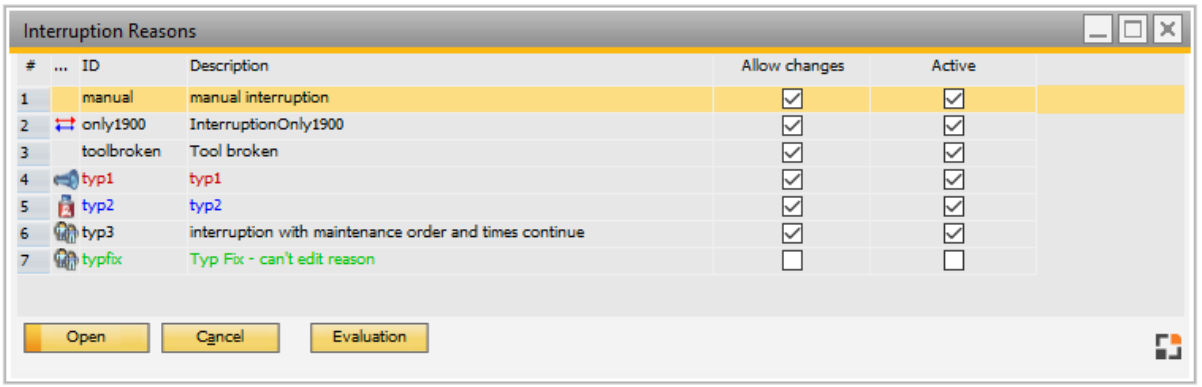
If an order is reported and an interruption then occurs, then the time for the active order will stop running until there is no longer any interruption.

If an interruption is reported, then an entry is made immediately in resource / Interruption with due date of 1.1.2050. This date indicates that the message has not yet been reported. The correct date will be entered at the end of the interruption.

© 2026 Boyum IT Solutions A/S

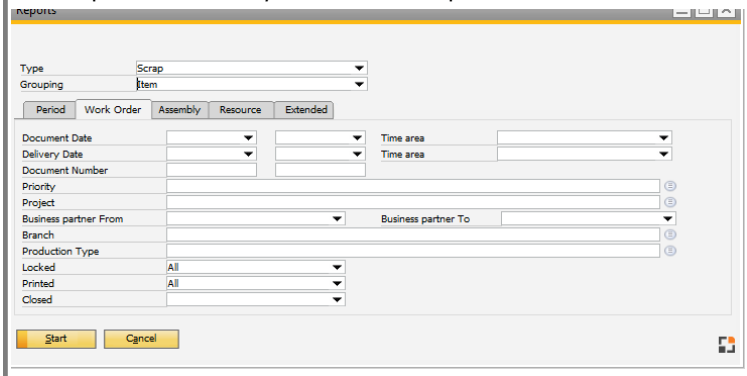
Note: As long an interruption is registered on a resource, there is no order logon possible for this resource.

Evaluation: Various evaluations can be created using the button "Evaluation" or "production reports". ***See*** report below.



Window basis_stillstandsgruende_browse.psr

Functions

Function	Description
Open	Open the selected entry for editing.
Add	Add an interruption reason to edit.
Remove	Remove selected priority from the list.
Evaluation	Open Reports This report is an analysis on the scrap reason.  *Window fert_report_parameter.psr* .

Window settings are available.

© 2026 Boyum IT Solutions A/S

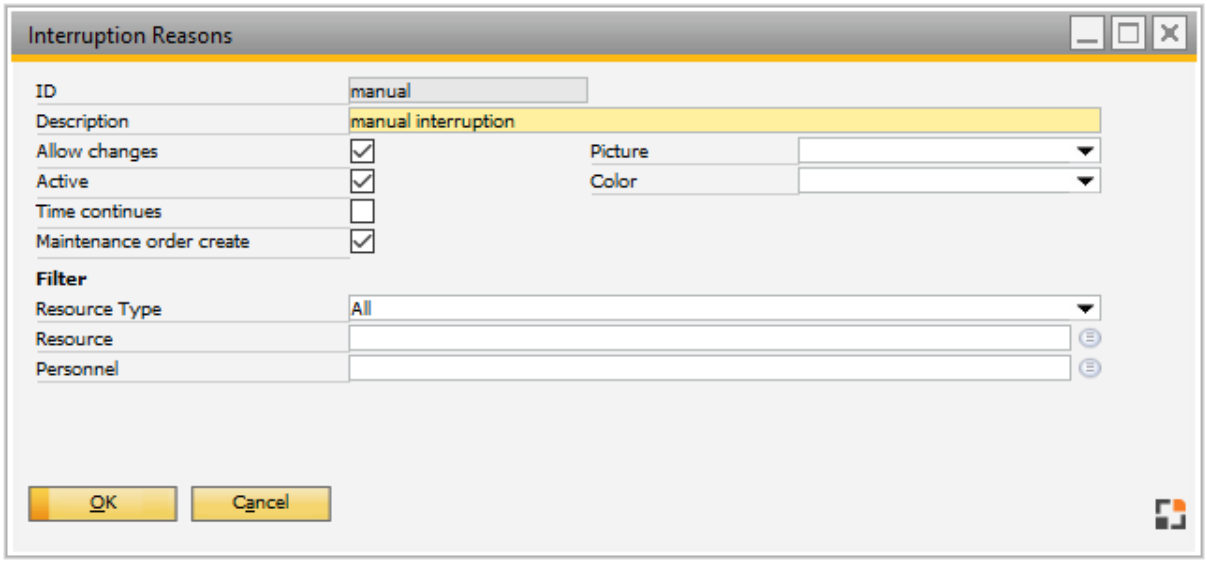
3.2.6.4.1 Edit Interruption

PATH: Administration > Setup > Production > Interruption Reasons > **Open** button.

In this window you can:

- Create a new interruption manually
- Stop running interruptions
- Plan interruptions
- Delete an interruption

Access: To administrate this window, you need access to Resources.



Window basis_stillstandgruende_edit.psr

Field	Description
ID	The ID of the interruption.
Description	Description for the interruption reason.
Allow changes	If active, the contents of the description can be changed by activating the interruption at the terminal.
Active	If deactivated, the entry cannot be selected at the terminal.
Time continues	Determines if the production time continues, as long as interruption is active. This can be activated e.g. if also costs of the interruption times should run on the current running work order. Interruption time continue *(beas 9.2 PL:00)*

© 2026 Boyum IT Solutions A/S

Maintenance order create	Defines if a maintenance order should be created when an interruption is created. This is used specifically when the interruption is linked with a planned maintenance. NOTE: WebApp Start Interruption does not support this parameter.
Image	Stored image for this interruption reason.
Color	Stored color for this interruption reason in the work order structure view. Independent from color setting of operation type.
Filter	Assign filters to the specific interruption reason. These can be: by resource type, resource, and personnel.
Resource Type	Select resource type from the drop-down menu: Resource, Tool or All.
Resource	Select resource(s) – multiple selection is available (***see*** image above).
Personnel	Select Personnel – multiple selection is available (***see*** image above).

This list is dynamically adjustable, and templates are supported.

See

Personnel – resources

Resources – interruptions

3.2.6.5 Cost elements

PATH: Administration > Setup > Production > Cost Elements.

Cost elements can subdivide and categorize all the incurred costs. The costs can be grouped into machinery costs, personnel costs, setup costs, external processing costs etc.
Cost elements are stored in resources, work sequences, tools, and so on. The usage of the calculation is defined in the calculation schema.
This grouping is then displayed in the pre-calculation and costing analysis.

Accounts can also be stored in cost elements. If an order report (FDC) is made, the accounts stored here are debited directly. Alternatively, the accounts can be stored in the calculation schema. In case

© 2026 Boyum IT Solutions A/S

the accounts are in the calculation schema, the accounts are debited on receipt of the finished part or closure of the work order.

Cost elements are grouped into cost element groups, allowing a summary per cost element group. Surcharges can also be defined in cost elements. These can be considered in the pre-calculation, cost analysis and posted separately.

Webinar: Financial accounting in Beas Manufacturing

3.2.6.5.1 Types of costs

The following basic costs can arise:

- Material costs
- Cost of external operation
- Non-material manufacturing cost
- Cost of tools
- And the definition of any surcharges

Extended costs evaluation makes it possible to split all costs except material costs. As an example we can split the cost in the following elements:

- Cost of Setup
- Labor Cost
- Machinery costs
- Quality control costs
- Tool procurement costs
- Tool maintenance costs

This is controlled via **Administration > Setup > Production > Cost Elements > Edit Group button**.

© 2026 Boyum IT Solutions A/S

Window settings and Templates are supported in this window.

Example: Tool

The procurement costs and maintenance costs go to different accounts and therefore must be considered separately with different cost elements. However, in the pre-calculation only the sum of the tool costs should be displayed.

A cost element groups can be set up to handle this requirement. The cost element group collects the cost elements that are defined in it. In our example the maintenance and procurement costs are summarized as tool costs in the group.

External operation

For external operation the costs can be posted to the WIP account at goods receipt.

see External operation - operation, Routing - External operation

3.2.6.5.1.1 Display of cost elements

Cost elements are analyzed in the pre-calculation and cost analysis, in surcharges, for example under the BoMs and work sequences.

This area is the calculation template, which is defined in **Setup > Calculation schema**.

The default calculation schema called *Dft* is supplied with the Beas installation.

© 2026 Boyum IT Solutions A/S

This template includes the material costs, external production costs, and production costs including surcharges. A division into cost elements is not considered here as these must be created separately.

To perform an analysis by cost elements, proceed as follows:

1. Create the cost element groups and cost elements.
2. Store the cost elements in resources.
3. Store the cost elements in the operation catalog or routings (these are transferred automatically when new resource entries are created).
4. Copy and edit the *DFT* calculation schema.
5. Remove the production costs object.
6. Insert the new object with the *Surcharge* type, surcharge on *Manufacturing costs.* Select *Cost element* in the reference field. Select the required cost element in the Cost element field.
7. Repeat this for all cost elements to be displayed. Alternatively this is also possible or even advisable with cost element groups.

Important: The *Manufacturing costs* object must be removed first, otherwise the costs is duplicated in the calculation.

see

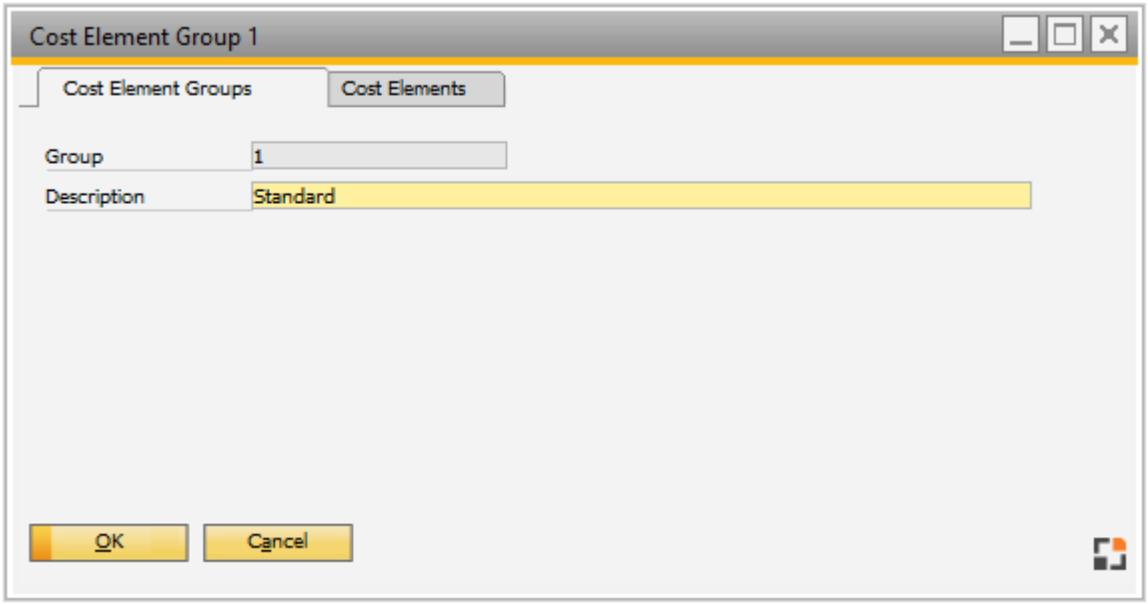
Calculation schema

Calculation objects

3.2.6.5.2 Cost Element Group

PATH: Administration > Setup > Production > Cost Elements.

© 2026 Boyum IT Solutions A/S



Window basis_ timetypegroup_ browse.psr

Field Description

Fields are available in the group list and in edit mode of the group details.

Field	Description
Group	Name of the group.
Description	Short description of the group.

Functions

Function	Description
Edit group	Edit group definition and elements.
Delete group	The entire group is deleted including all stored cost elements.
New group	Create a new group.
Cost Element Edit	All cost elements of the currently selected group are displayed.

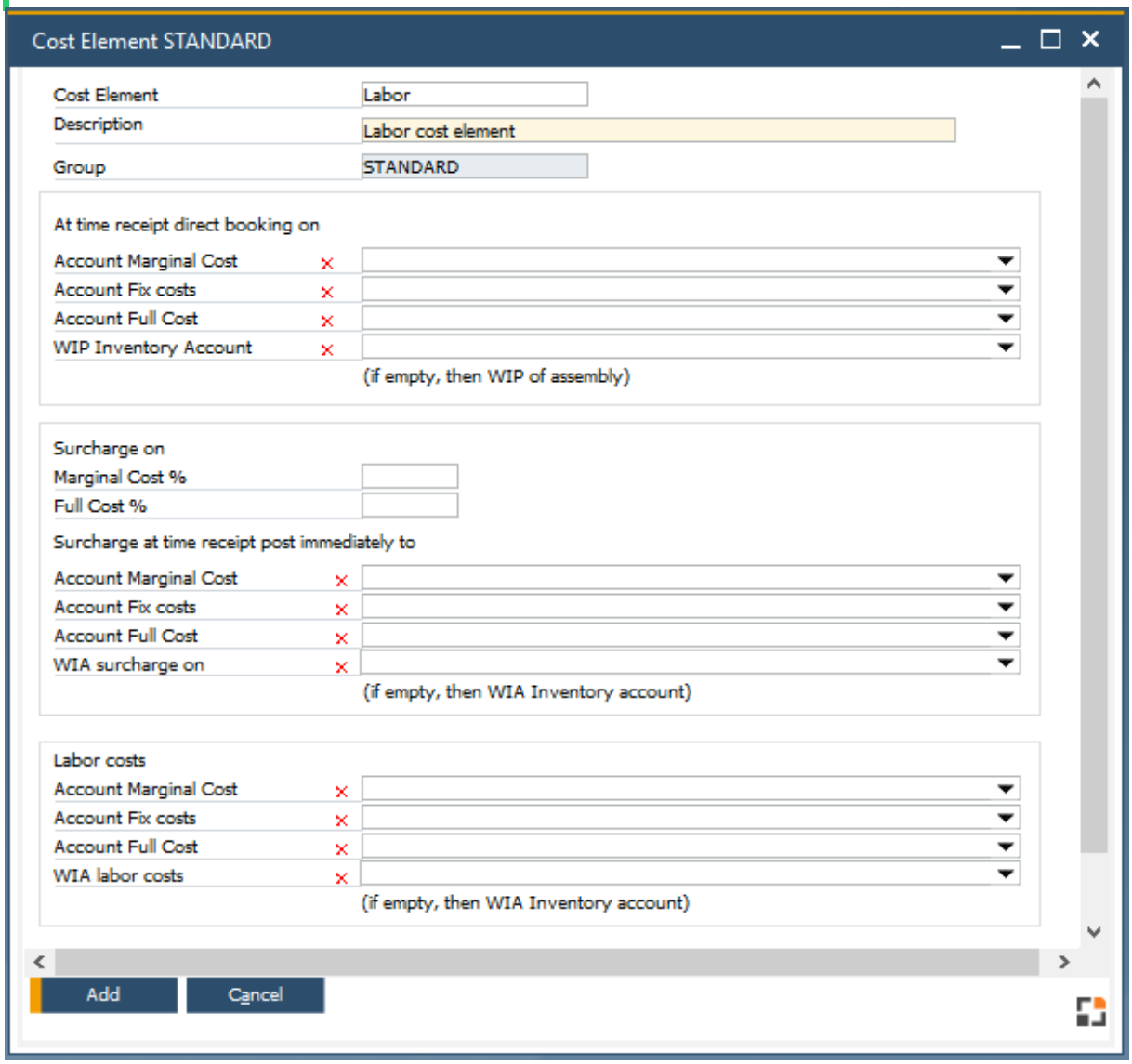
Tabs in edit mode

Tab	Description
Cost Element Group tab	Description of the group.
Cost elements	List of all cost elements that belong to the group.

© 2026 Boyum IT Solutions A/S

3.2.6.5.3 Cost element

PATH: Administration > Setup > Production > Cost Elements > "**Cost Element Edit**" button > **Open**.



Window basis_timetype_edit.psr.

Field Description

Field	Description
Cost element	Unique ID of the cost element. The ID must be unique across all groups.
Description	Description of the cost element.
Group	The cost group that the cost element belongs to.

© 2026 Boyum IT Solutions A/S

Note: Only fill the account values if the accounts should be credited during the time receipt process. This requires careful consideration. To avoid errors, it is recommended to post when receiving assemblies or closing the work order.

You can specify either overheads and fixed costs or full costs, but not all three values since that would result in duplicate posting.

At time receipt direct booking on

Field	Meaning
Account Marginal Cost	Account to be credited with marginal costs .
Fixed Costs account	Account to be credited with fixed costs (fixed costs = full costs - overheads) .
Full Costs account	Account to be credited with full costs.
WIP Inventory account	If the amount is not posted to the WIP inventory account of the assembly, another account can be used. Note: This option can only be used if it is configured in the Configuration Wizard as **Production > Valuation and Posting of Assembly > Use for component transactions > "Components WIP Account"**. **Set WIP accounts for Labor and Surcharge costs:**

Surcharges can be identified separately in the precalculation and costing analysis. Define the rate for surcharge in these fields.

Surcharge on

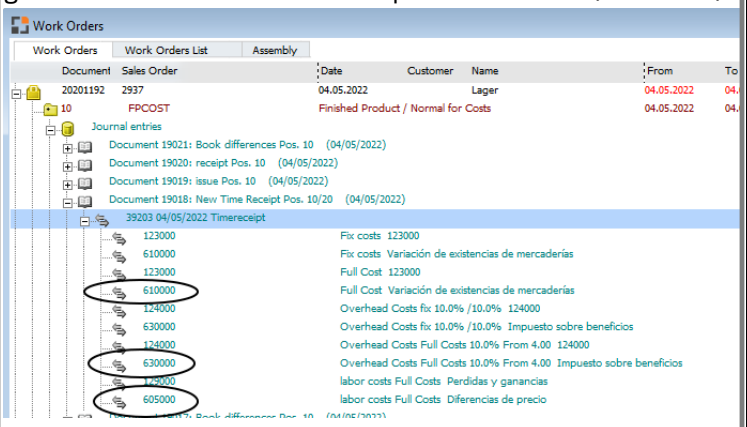
Tab	Meaning
Marginal costs %	Surcharge on the marginal cost rate
Full costs %	Surcharge on the full cost rate

Note: The surcharges can be posted directly, like normal costs, during the time receipt process.

This requires careful consideration. To avoid errors, it is recommended to post when receiving assemblies or closing the work order.

© 2026 Boyum IT Solutions A/S

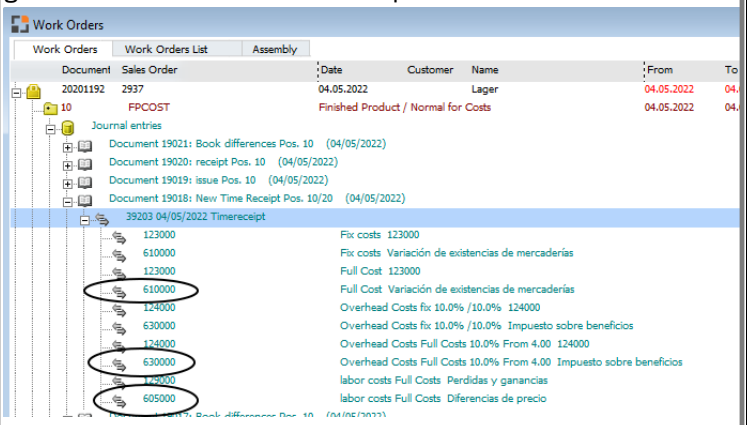
Surcharge at time receipt post immediately to

Field	Meaning
Account Marginal Cost	Account to be credited with marginal cost.
Fixed Costs account	Account to be credited with fixed costs (fixed costs = full costs - overheads) .
Full Costs account	Account to be credited with full costs.
WIP Account	Define WIP Account Important: for older Beas installations where WIP Account is not defined, the system reads the "WIP Inventory Account" field. When you create time receipts with costs, the system generates WIP information in separate accounts (If defined):  Note: This option can only be used if it is configured in the Configuration Wizard as **Production > Valuation and Posting of Assembly > Use for component transactions > "Components WIP Account"**.

Labor costs

Field	Meaning
Account Marginal Cost	Account to be credited with marginal cost.
Fixed Costs account	Account to be credited with fixed costs (fixed costs = full costs - overheads) .
Full Costs account	Account to be credited with full costs.

© 2026 Boyum IT Solutions A/S

WIP Account	Define WIP Account Important: for older Beas installations where WIP Account is not defined, the system reads the "WIP Inventory Account" field. When you create time receipts with costs, the system generates WIP information in separate accounts (If defined):  Note: This option can only be used if it is configured in the Configuration Wizard as **Production > Valuation and Posting of Assembly > Use for component transactions > "Components WIP Account"**.

To delete an account entry, click on the ✕ symbol.

Webinar: Financial accounting in Beas Manufacturing

3.2.6.6 Shift schedule for resources

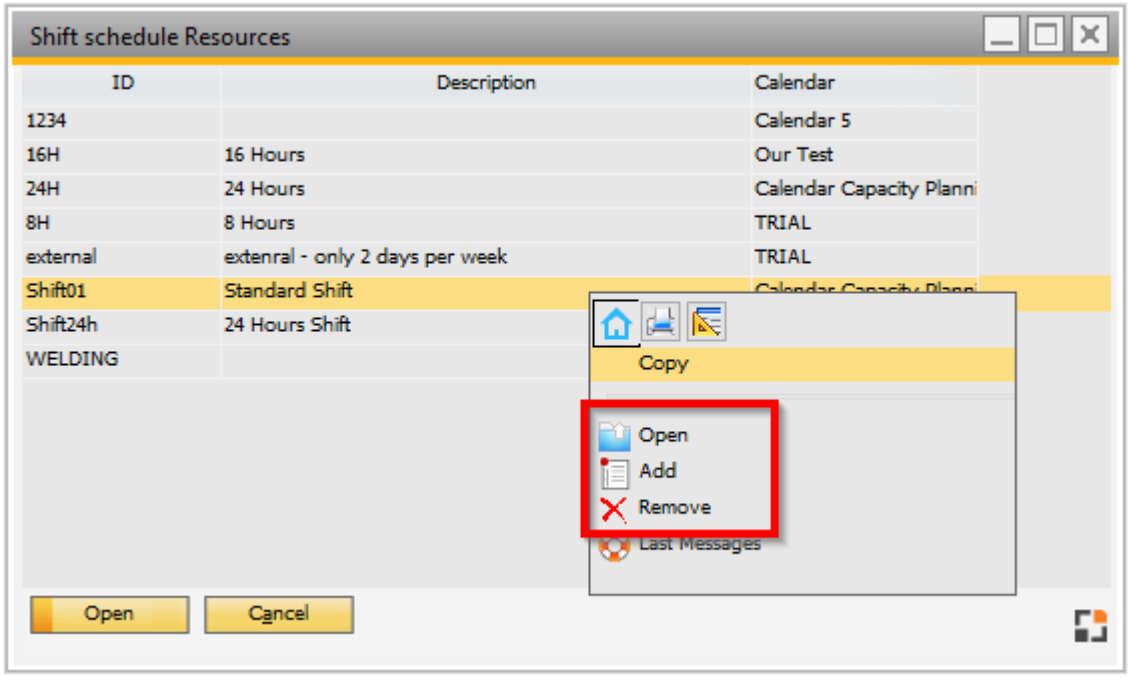
In shift schedule for resources you can enter the planned start and end time for the resource, and determine the available capacity.

The shift can be stored in a resource under the Scheduling tab.

PATH: Administration > Setup > Production > Shift schedule for Resources.

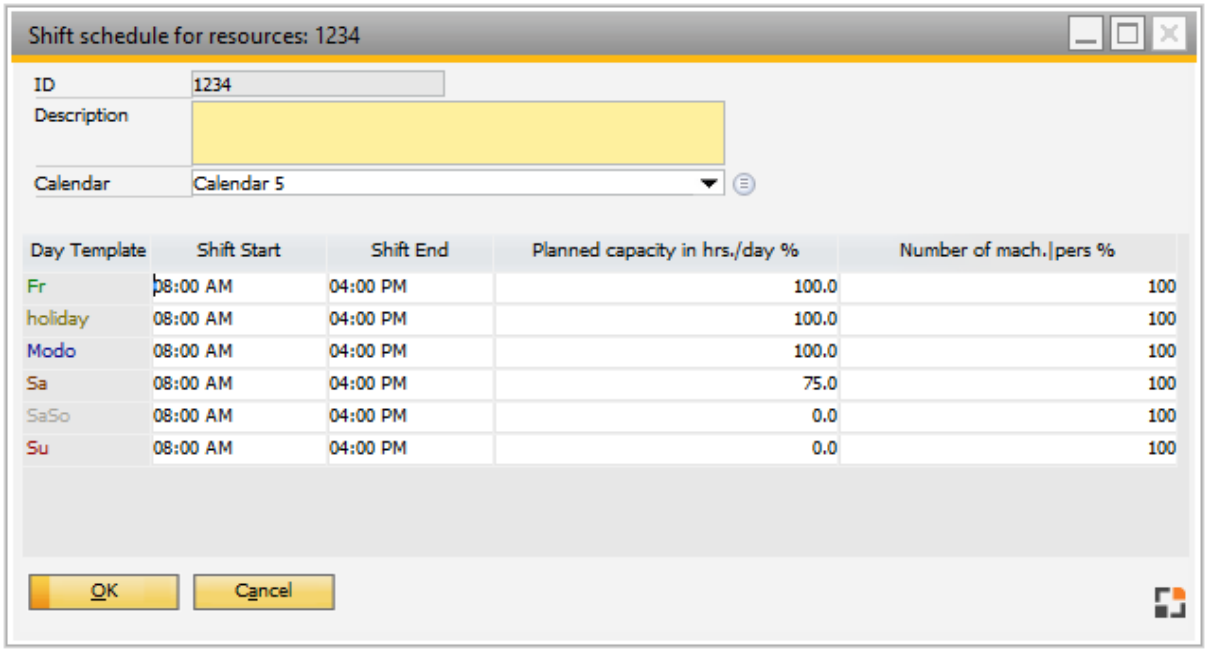
You can edit an existing shift, or add a new one with the help of the right-click menu or the controls below:

© 2026 Boyum IT Solutions A/S



Window basis_resource_layerplan_browse.psr

Click **Open** to add/modify information in the Shift editing window:



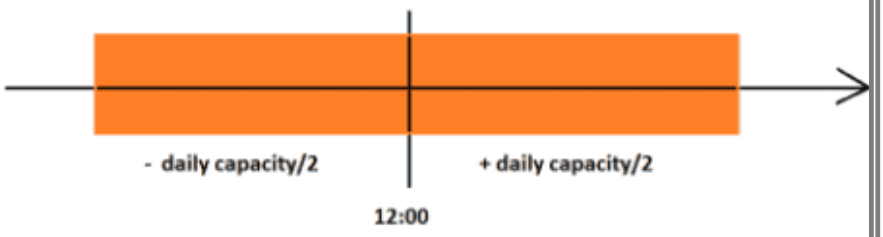
Window basis_resource_layerplan_edit.psr

Field	Description
ID	Shift ID.

© 2026 Boyum IT Solutions A/S

Description	Description of the shift.
Calendar	Selected factory calendar to be used as reference. The button opens the factory calendar.
Day template	You can deposite a day template with separate capacities per each line.
Shift Start/End	Start and End of shift Planned capacity is calculated as follows Planned capacity as set in resource * %-value as per shift calendar * number of persons per resource * %-value as per shift calendar * %-value as per factory calendar If the calculated planned capacity is bigger than the time between shift start and shift end, it is reduced to this value. ***Example:*** Shift from 10 to 16 Calculated capacity = 8 hours Calculated capacity will be reduced to 6 hours in this case. Additional dependencies: - Resource calendar - APS – calculation settings Note: The planned capacity is adjusted accordingly to the maximum available time if the time period between shift start and shift end is not longer than the planned capacity in hrs/day. If the time period is longer, it has no effect on the planned capacity, because breaks are considered to be included. **Note: Working over midnight** It is not possible to define a shift over midnight.
Planned capacity hrs./day %	With this value the planned capacity is multiplied. See above: Shift start/end

© 2026 Boyum IT Solutions A/S

	If capacity not 100%, beas ignores Shift Start / Shift End, because the calculation method is changed to Planned Capacity /hour : 100 * Planned capacity hrs/day% The calculated Start is at 12 o'clock - (planned capacity in hours : 2) The calculated End is 12 o'clock + (planned capacity in hours : 2)  Backward scheduling considers only the end date Forward scheduling considers only the start date ***Example***: If you define a shift from 8:00 AM – 4:00 PM you have a capacity of 8 hr. If you reduce the capacity to 75% your effective time is 6 hrs. beas overwrites Start/End with 12 AM +/ (6 : 2) hour calculated start time = 9 AM calculated end time = 3 PM
Number of mach. / pers %	With this value the number of machines / employees is multiplied.

See

Resource – Planned capacity

Factory calendar

Priorities

Compress and Expand

Configuration wizard – Production – Capacity scheduling – End date

Capacity planning

© 2026 Boyum IT Solutions A/S

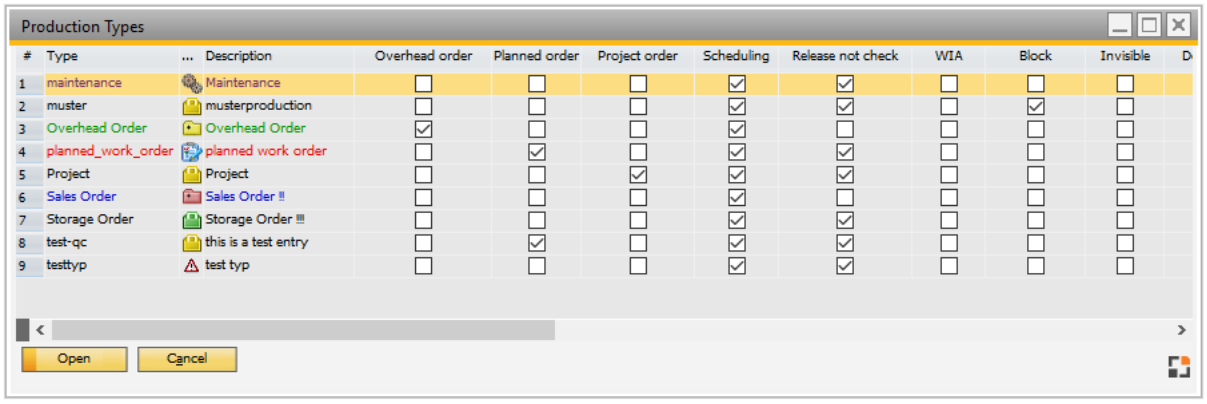
Training unit 04b Shift schedule for resources

3.2.6.7 Production Types

There are different types of work orders. Here it is possible to define production types and their behavior.

PATH: Administration > Setup > Production > Production types

Window settings and Templates are supported in this window. UDFs can be set up in the Configuration wizard.



Window basis_fttyp_browse.psr

Besides the three types supported by SAP Business One

Standard – Based on the Bill of materials and used to produce a regular production item.

Special – Used to perform activities that are not necessarily Bill of materials items, e.g. repair orders.

Dis-assembly – Used to dismantle a parent item of the regular product into its child items.

in Beas the following types of work orders are available:

Field	Description

© 2026 Boyum IT Solutions A/S

Overhead cost order	Internal order for monitoring overhead costs. Overhead cost orders cannot be scheduled in Capacity planning.
Planned order	Only for planning purposes: requirement is considered in MRP and APS. No login or time receipts are possible. The switch can be set in **Configuration Wizard > Production > Master data > Work order types.** At new creation of this type, mark the columns "planned order" and "blocked".
Storage order	Production to increase stock without a current sales order.
Customer order	Production due to a customer order. This work order is connected to the purchase order.

This table provides an overview of all existing production types.The behavior of each production type can be adjusted individually. (Edit button)
The check marks in the table show the current behavior. (Box checked =enabled)

- Default settings

At new creation of a database the most important work order types are created automatically:

Type	Description
Sales Order	Work orders, firmly connected to a sales order
Storage Order	Work orders, not connected to a sales order. For make to stock.
Overhead Order	Overhead costs work orders

Note: This is only text, no user interface. That is why the entries are not translated. Entries are inserted using the language which was set up at the moment of installation.

Training database

Type	Description
Overhead Order	Overhead costs order: Scheduling, overhead costs, WIP, customer order enabled
Sales Order	Simple sales order: only scheduling enabled
Storage Order	Storage order: scheduling enabled

© 2026 Boyum IT Solutions A/S

If the table has been cleared manually or you are updating Beasfrom an old version, which did not contain production types, existing work orders are analyzed and the needed production types are created automatically.

For further information on production types ***see*** Basic Production Types

Store production types: Configuration wizard > Production > Create new > Production type for storage orders / sales orders
Work order document > Type

Right-click menu:

Name	Description
Open	Opens the selected production type.
New	Adds a new production type.
Delete	Deletes the selected production type.
Change log	Change log is displayed.
Support	Opens last error messages.

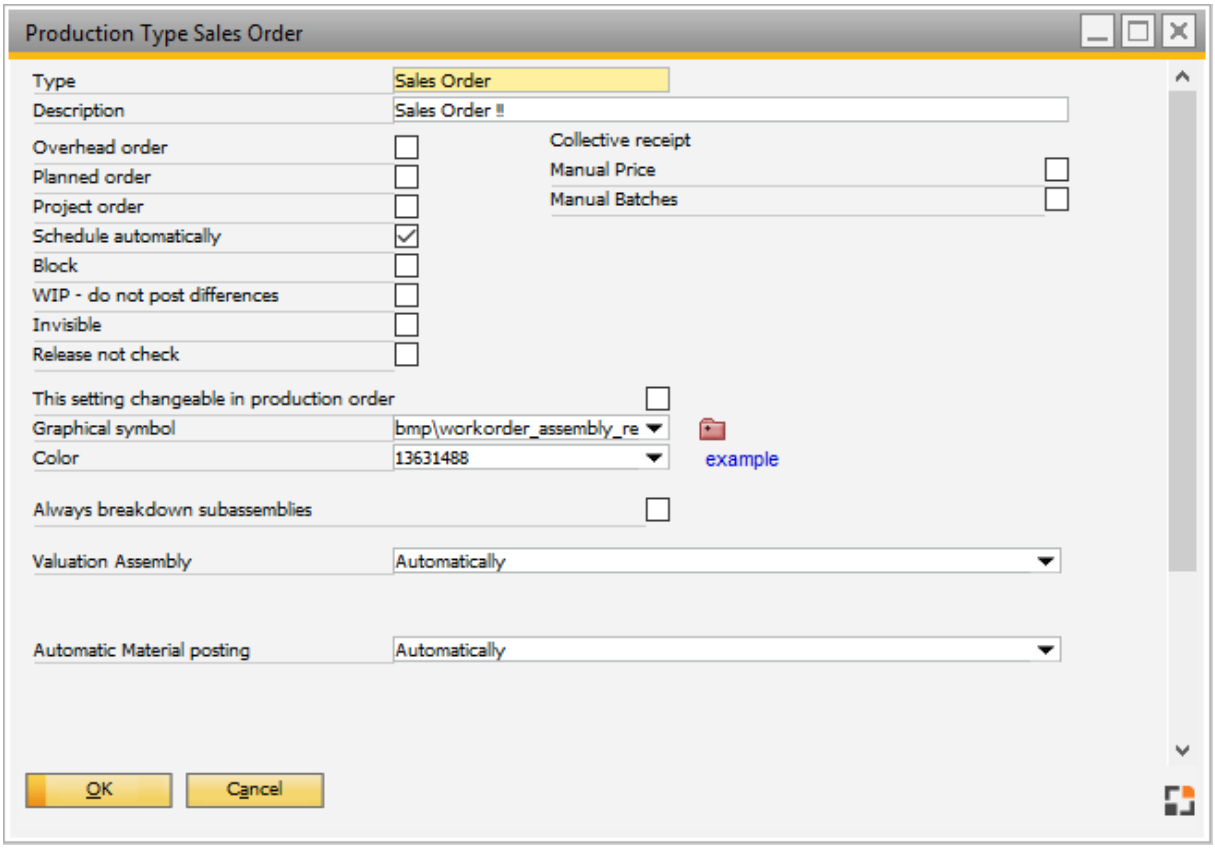
Edit/Add new production type

3.2.6.7.1 Production type - edit

In this window you can edit an existing / add new production type.

PATH: Administration > Setup > Production > Production types > "**Open/Add**" button or right-click menu.

© 2026 Boyum IT Solutions A/S



Window basis_fttyp_edit.psr

The Change log is available from the right-click menu.

- Field descriptions

Field	Description
Type	Short name of the production type. It can be changed and this chnage takes effect in all work orders.
Description	Long description.
Overhead order	- Work order as overhead order If active, this relates to an overheads order. This flag is transferred to work order. ***See*** Overheads. This can be used to register costs of non-productive work, like machine cleaning, training, etc. As an assembly, use it to insert a non-storage related item so it is not closed automatically and is independent of all other settings.

© 2026 Boyum IT Solutions A/S

Field	Description
	See Close work order automatically
Planned order	Work order is a planned order Planned work orders can not be started, and no material can be posted. They are created for planning purposes only. However, the work order can be scheduled for material and resource capacity planning. MRP2 (Material requirement planning – Resource requirement): If the work order has a sales order reference, it is displayed in *MRP2* as a sales order. If not, it is displayed as a forecast. The requirement of the order is taken into account in MRP and APS, login and completion confirmation is blocked. Therefore, both the planned order and blocked switches must be activated! The Consider planned orders switch in the MRP Wizard also affects the behavior of planned orders. *(BEAS_FTTYP.PLANNINGORDER=1)*
Project order	Project order The project order can be defined as one work order or one including several work orders. The work order defining the project is displayed as Project order (displayed green in the WO structure). As an assembly, a non-storage related item should be added. In this case the assembly is never closed automatically, regardless of the settings. ***See*** Close WO items automatically
Schedule automatically	If active (default), the work order is scheduled automatically backwards after it is created without consideration of the capacity (calculates with unlimited resources). Use APS, for capacity planning. If changes happen in an existing work order (dates, times, quantities, items or sub-structure) the whole work order is rescheduled. We recommend disabling this option for overhead orders and project orders.
Block	Work order is blocked after it is created, but can be released. This is the default type for the block flag. If activated is ignored by both APS and the purchase order list.

© 2026 Boyum IT Solutions A/S

Field	Description
WIP – do not post differences	If enabled, accumulated costs on the WIP account are not automatically booked to the difference account. This setting is useful for example for overhead orders. If continuous inventory maintenance is activated and the option to empty the WIP account is activated in the Setup Wizard, no postings are performed for work orders with this type from the WIP account to the WIP difference account. ***For example*** in overhead work orders transfer of the WIP amount is not desirable, since no assemblies are posted. Note: For customer-specific adaptation, a command which can be used to transfer the amount independently of this switch. You can use this e.g. to generate a monthly posting.
Invisible	Work order is treated like a closed work order, but it is active. Only times can be booked on this type of work order.
Release not check	Enables the production of blocked item versions. If you work with item versions, the production of an item version can be blocked in item version – status. Activate this switch to override the block in item version – status for this production type. When active, it is always possible to create a WO position for an I-Version. When disabled, it is allowed to create a Work order position only if Release I-Version and Create WO parameters are enabled. ***Example*** of use: A yet unreleased item version is to be created (Production blocked). You want to produce a sample, however. For this, a Sample order work order type is be created, in which this flag is activated. As a result, it is possible to create a work order for a blocked item version.
This setting is changeable in production order	Refers to both the graphical symbol and color switches. If enabled, the graphical symbol and color can be changed in the work order.

© 2026 Boyum IT Solutions A/S

Field	Description
Graphical symbol	This order is displayed in the tree view with the chosen image.
Color	The order is displayed in the chosen color in Work order list. Note: the selected color is not displayed in the Work order structure!
Always breakdown subassemblies	If enabled, the system breaks down all sub-assemblies, whether they are stock- or order-related. This affects only newly created work orders. ***See*** work order item > always breakdown assemblies
Valuation of assembly	A separate valuation method can be set for a production type. For example, a repetition part can be valued at standard costs, a repair order at post calculation price etc. It can be set to automatic in **Configuration wizard > Production > Valuation and booking of assembly > Valuation**. This option affects assembly posting only. The following selections are available: *Window basis_fttyp_edit.psr* Note: When working with the Merge function, a production type with the "like manual posting" valuation method needs to be created.
Pricing at valuation	Determines which calculation value from the calculation schema is used for valuation. The option is only visible if *Post calculation* or *Production planned costs* was selected from the Valuation Assembly drop-down list.
In house production pricing booking	Determines which price list is to be used for valuation. Only visible if *As Stock Transfer* was selected from the Valuation of assembly drop-down list.
Automatic material posting	Determines how to execute the issue of materials for the production type: • at first operation • at last operation • no automatic

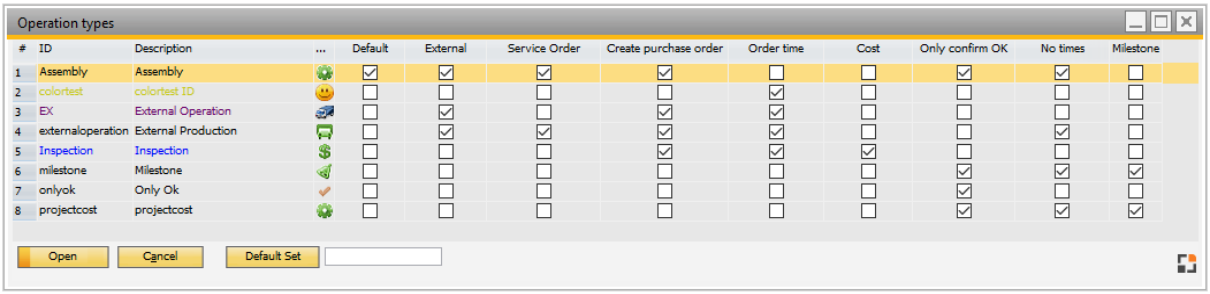
© 2026 Boyum IT Solutions A/S

Field	Description
	• automatically By default this is set to automatically. In this case settings in the Configuration Wizard apply. All other options override the settings in the Configuration Wizard. This option is only available if "work order backflushing" was not selected in the Configuration Wizard. ***See*** Configuration wizard – material posting.
Collective receipt – Manual Price	If enabled, the price can be entered manually in Production > collective receipt.
Collective post in – Manual Batches	If enabled, in the batch numbers can be manually entered in Production > collective receipt (for example for disassembly processes).

3.2.6.8 Operation types

PATH: Administration > Setup > Production > Operation types.

This table provides an overview of all existing operation types. The behavior of each operation type can be adjusted individually. (Edit) The check marks in the table show the current behavior. (Box checked = enabled)



Window basis_agtyp_browse.psr

Default in training database

Name	Icon	Boyum Style icon	Description
External operation			Purchase orders can be created.
Home work			Purchase orders can be created, times can be confirmed.

© 2026 Boyum IT Solutions A/S

Machine			Only time receipt.
Milestone			Only status confirmation.
Operation			Work order time receipt.
Personnel			Only time receipt.
Alternative			Alternative operation with time recording.
Parallel			Parallel operation with time recording.
Quality control			Purchase orders can be created, times can be confirmed.
Costs			Like external operation, scheduling and confirmation of costs allowed.

NOTE: Icons can be selected in the Operation type editing window.

Field description

Field	Description
ID	Define the name of the operation type.
Description	Description of the operation type.
... (Image)	Define an icon for the operation type.
Color	Activate a color font for the operation type.
External	Activate whether the operation is an external operation. If it is checked, only external resources can be selected and if it is unchecked, only internal resources can be selected. In the routing, the External Operation tab becomes visible.
Create purchase order	Activate purchase order creation possibility for this operation type. This is mostly used for external operations. ***See*** External operation.
Create service order	Field used only with Beas 2005, for compatibility reasons. If this option is activated, an additional purchase order system for external operations is provided in addition to the default external production system. This system can be used to manage external productions using the service order. Only use this function if you are running Beas 2005 !

© 2026 Boyum IT Solutions A/S

Field	Description
	Beas 2005
Order time Enter	Activate flag if this type of operation allows registration of order times. If this setting is disabled, the linked operations to this Operation type will not be displayed in the list of available operations to start in the Login Work Order desktop terminal app and WO Start WebApp.
Cost	Activate flag if this type of operation allows registration of external costs. This means that instead of the normal time receipt screen, a cost registration screen is displayed. By checking this option, the *No times* option is also checked. If this option is the only one checked, only the Extended, Cost and Attachments tabs become visible.
Only confirm OK	Activate flag if this type of operation allows reporting completion without times, cost or quantity. If a milestone is created, it is activated. This type does not support the following functions: QC orders, master slave operations and work order back-flushing.
No times	Set whether this type of operation is not valid for scheduling or report times. By checking this option, the General tab in the routing is hidden. If this option is the only one checked, only the Extended and Attachments tabs are visible.
Milestone	Activate flag if this type of operation is a milestone. If this operation is a milestone, then no time can be reported. By checking this option, the options Only confirm OK and No times are also checked. If this option is the only one checked, only the Extended, Milestone and Attachments tabs are visible.

Functions

Field	Description
Add	Create a new operation type.
Open	Open selected operation type.
Remove	Delete the type. Only possible if it is not in use.
Default set	Set this operation type as default.

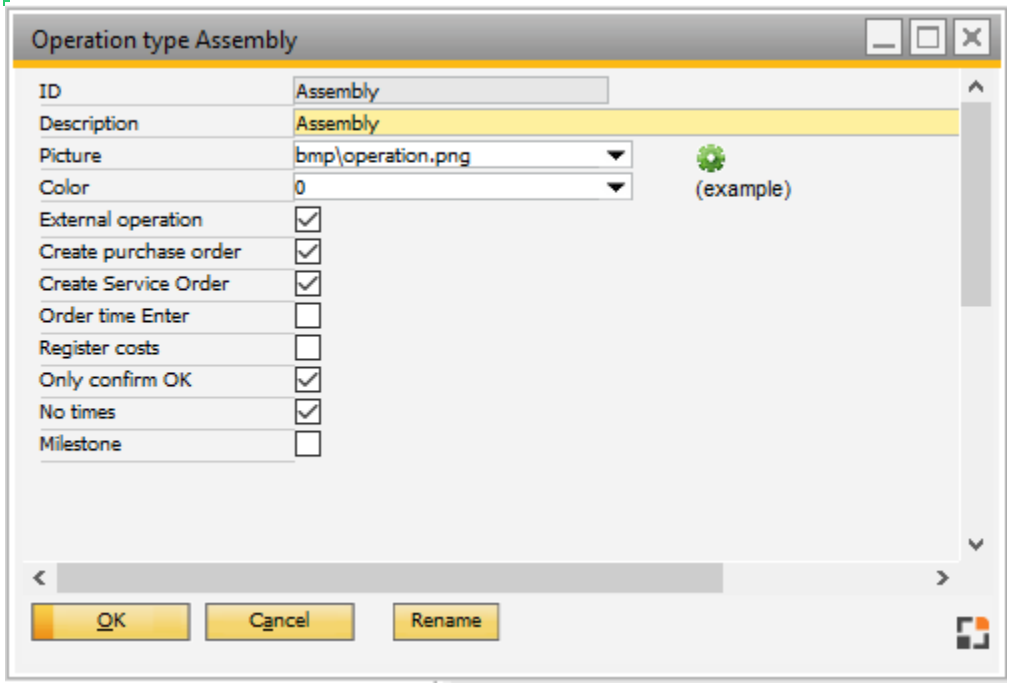
Search field: search for ID and description .

© 2026 Boyum IT Solutions A/S

3.2.6.8.1 Operation type

In this editing window you can perform settings for an operation type. After updating the information, the changes become visible in the browse form.

PATH: Administration > Setup > Production > Operation types > Open selected operation type



Window basis_agtyp_edit.psr

Field description

Field	Description
ID	Define the name of the operation type.
Description	Description of the operation type.
... (Image)	Define an icon for the operation type.
Color	Activate a color font for the operation type.
External	Activate whether the operation is an external operation. If it is checked, only external resources can be selected and if it is unchecked, only internal resources can be selected. In the routing, the External Operation tab becomes visible.
Create purchase order	Activate purchase order creation possibility for this operation type. This is mostly used for external operations. ***See*** External operation.
Create service order	Field used only with Beas 2005, for compatibility reasons. If this option is

© 2026 Boyum IT Solutions A/S

Field	Description
	activated, an additional purchase order system for external operations is provided in addition to the default external production system. This system can be used to manage external productions using the service order. Only use this function if you are running Beas 2005 ! *Beas 2005*
Order time Enter	Activate flag if this type of operation allows registration of order times. If this setting is disabled, the linked operations to this Operation type will not be displayed in the list of available operations to start in the Login Work Order desktop terminal app and WO Start WebApp.
Cost	Activate flag if this type of operation allows registration of external costs. This means that instead of the normal time receipt screen, a cost registration screen is displayed. By checking this option, the *No times* option is also checked. If this option is the only one checked, only the Extended, Cost and Attachments tabs become visible.
Only confirm OK	Activate flag if this type of operation allows reporting completion without times, cost or quantity. If a milestone is created, it is activated. This type does not support the following functions: QC orders, master slave operations and work order back-flushing.
No times	Set whether this type of operation is not valid for scheduling or report times. By checking this option, the General tab in the routing is hidden. If this option is the only one checked, only the Extended and Attachments tabs are visible.
Milestone	Activate flag if this type of operation is a milestone. If this operation is a milestone, then no time can be reported. By checking this option, the options Only confirm OK and No times are also checked. If this option is the only one checked, only the Extended, Milestone and Attachments tabs are visible.

Functions

Field	Description
Remove	Remove operation type.
Cross reference	Opens the Cross reference window.

© 2026 Boyum IT Solutions A/S

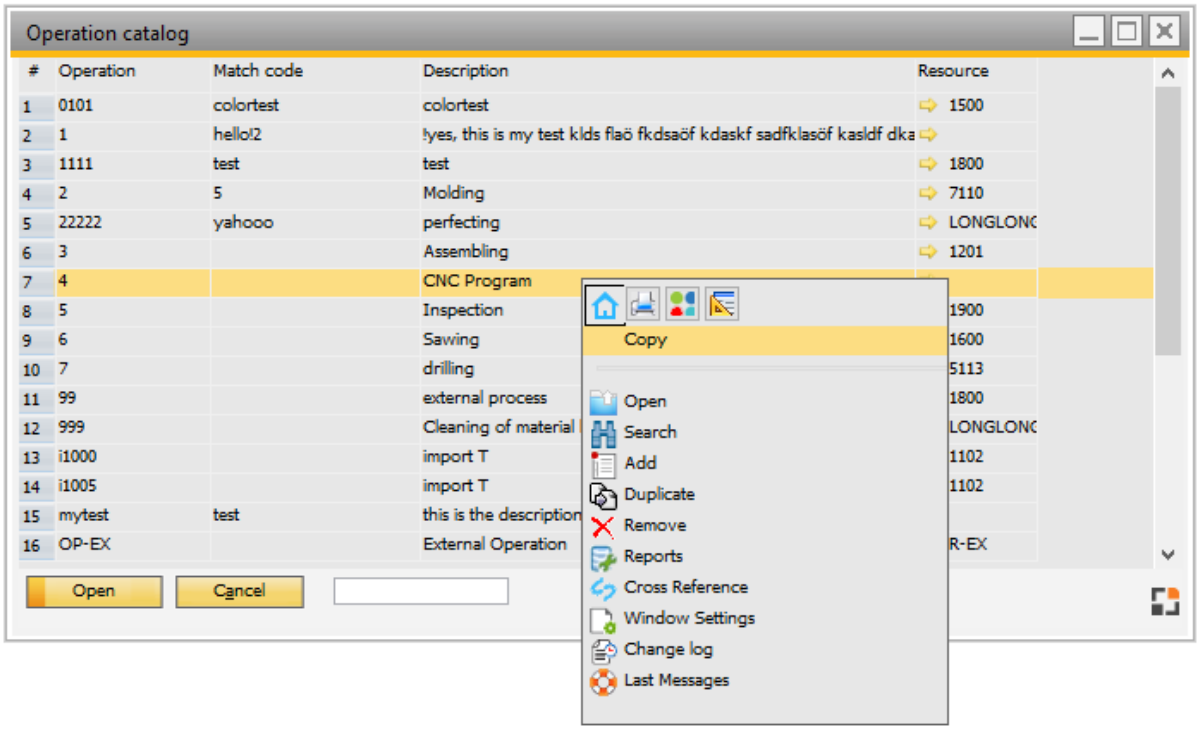
Rename	Click the button to rename the operation type. A Query pop-up window opens where you can type the new ID.

3.2.6.9 Operation catalog

Beas allows you to record standard operations that you can insert via the master number as items in any routing. The information items stored there are suggestions. In the info list "Operations", the fields "Number" and "Matchcode" are search keys.

PATH: Administration > Setup > Production > Operation catalog.

In this list all operations with description and the assigned resource are displayed. Templates, UDF and format settings are supported. In resource field master data can be accessed directly with the orange arrows.



Window stamm_ag_browse.psr

Functions

Function	Description
Open	Open selected entry. ***See*** Operations master.
Copy	Copy selected entry.
Search	Open search for this window.

© 2026 Boyum IT Solutions A/S

Add	Create new entry.
Duplicate (right-click / button)	Create a new entry by duplicating the selected entry.
Remove	Delete selected entry.
Reports	Open a list of stored reports .
Cross reference	Open the operations cross reference.
Window settings	Open window settings.
Change log	Open Change log.

In the search field you can search for ID, designation, Matchcode and resource ID.

see

Routing

Resources (tool, parallel positions, alternative positions)

Data record selection

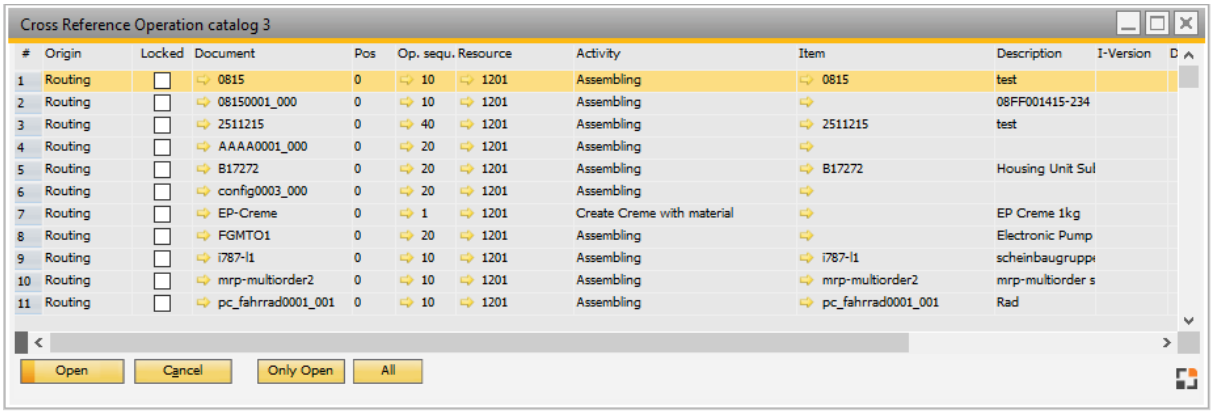
3.2.6.9.1 Operations cross reference

PATH: Administration > Setup > Production > Operation catalog.

1. Right-click an operation.

2. select / **Cross reference**.

The list shows which work orders, routings or Precalculations contain the selected operation. Master data can be accessed directly with the orange arrows.



Window stamm_ag_edit_origin.psr

© 2026 Boyum IT Solutions A/S

Column	Description
Origin	Shows where the entry was found (WO, routing...)
Blocked	Entry blocked.
Pos	Continuous number in that list.
Op. sequ.	Operation sequence.
Resource	Resource ID.
Activity	Description of the activity.
Item	Item.
Description	Item description.
I-Version	For Work order and Precalculation: used I-version.
Drawing number	For Work order and Precalculation: stored drawing number.
Raw material	raw material
Match code	Routing: entry match code.
DIN	DIN number

Functions

Function	Description
Open	Open selected entry.
Cancel	Close window without saving changes.
Window settings	Open window settings.
Only open	Filter: Only open work orders.
All	Reset filter, display all work orders.

back to Operation catalog

3.2.6.9.2 Operation Catalog Edit

In this window you can edit or create new operation catalogs.

General
Extended
Tool
Utilities
Parallel

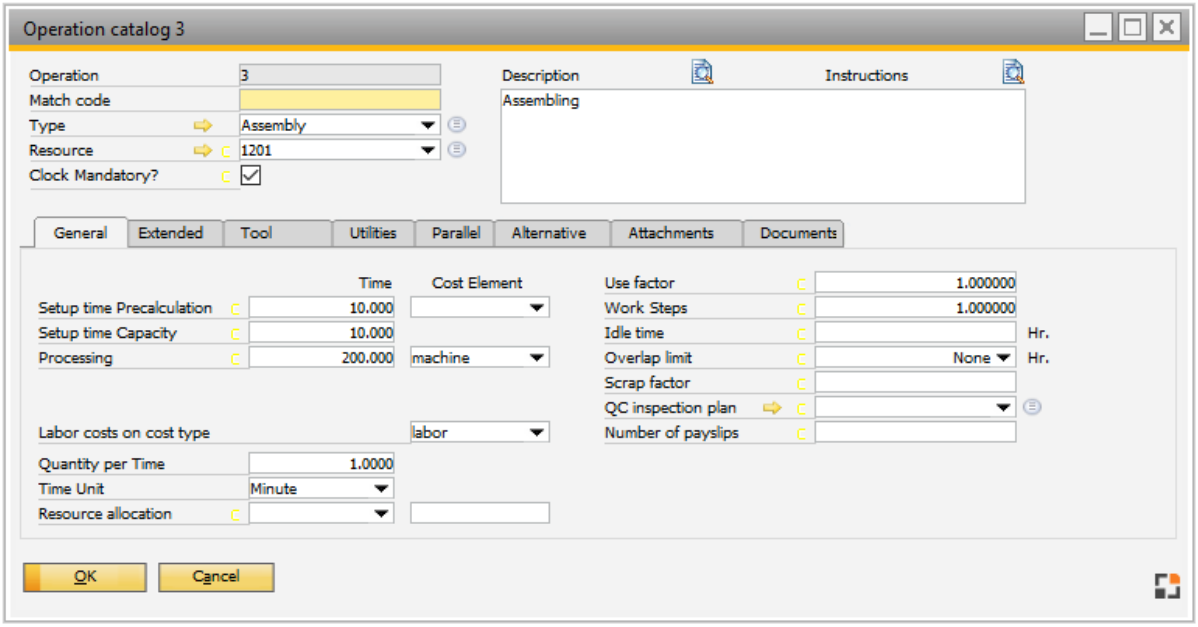
© 2026 Boyum IT Solutions A/S

Alternative

Attachments

Documents

PATH: Administration > Setup > Production > Operation catalog > **Open** an entry.



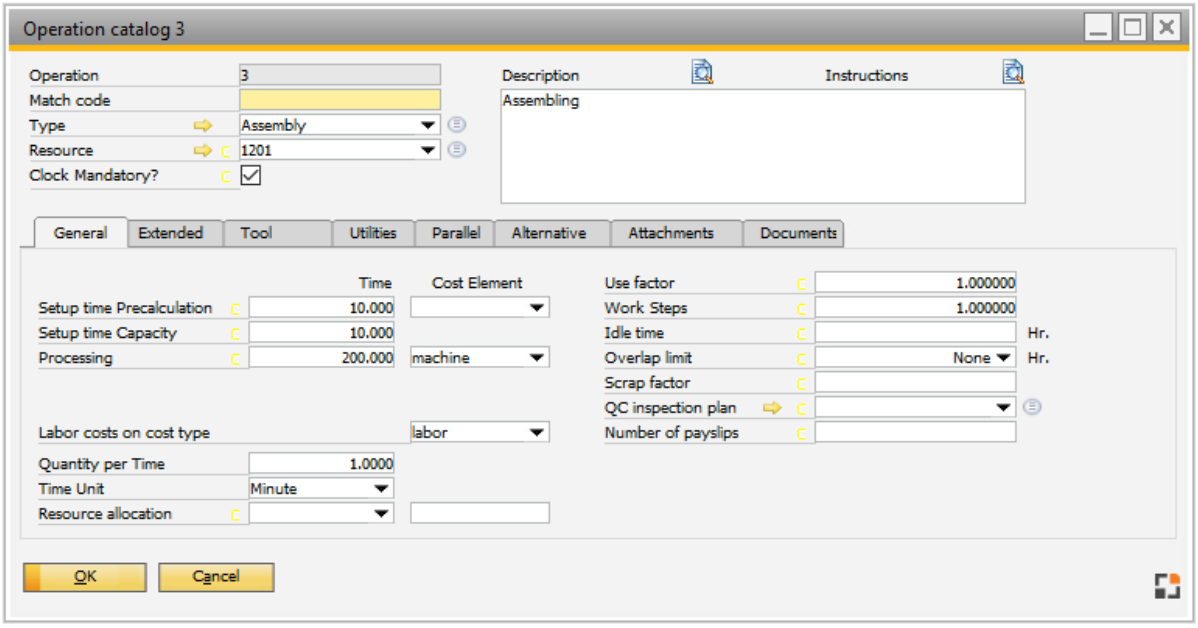
Window stamm_ag_edit.psr

See also Edit Routing position

3.2.6.9.2.1 General

Administration > Setup > Production > Operation Catalog > Open an operation to edit > **General** tab

© 2026 Boyum IT Solutions A/S

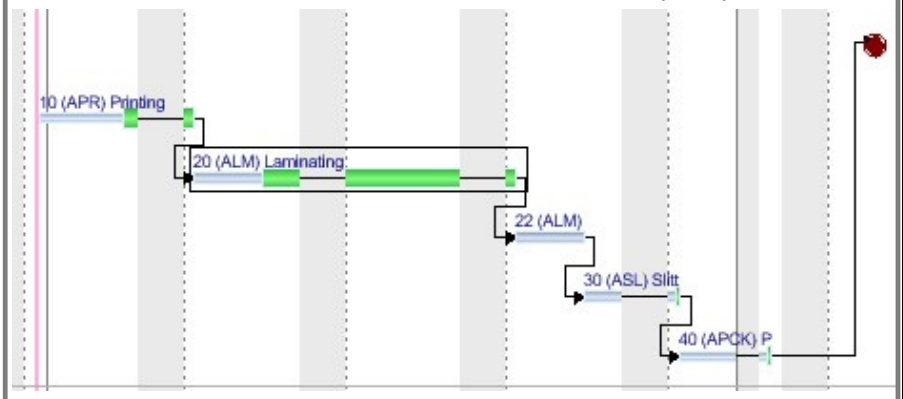


Field	Description
Setup time	Setup time for Pre- and post-calculation The setup time in hours or minutes is taken into account in production and costing analysis as well as in Precalculation. Note: Designation can be changed in Configuration wizard – Resource – Definition Time types. **Precalculation and Lot size** Setup time is calculated per calculation lot size. ***Example:*** Lot size 10, setup time=5 minutes, calculated: 19 pieces Result: total setup time 10 minutes or 0,52 per piece If a sub-assembly has its own calculation lot size, it will be taken into account. ***See*** Precalculation – View and lot size. **Production and lot size** If a work order is created automatically (e.g. via order recommendation report or sales order to work order, a separate work order position per

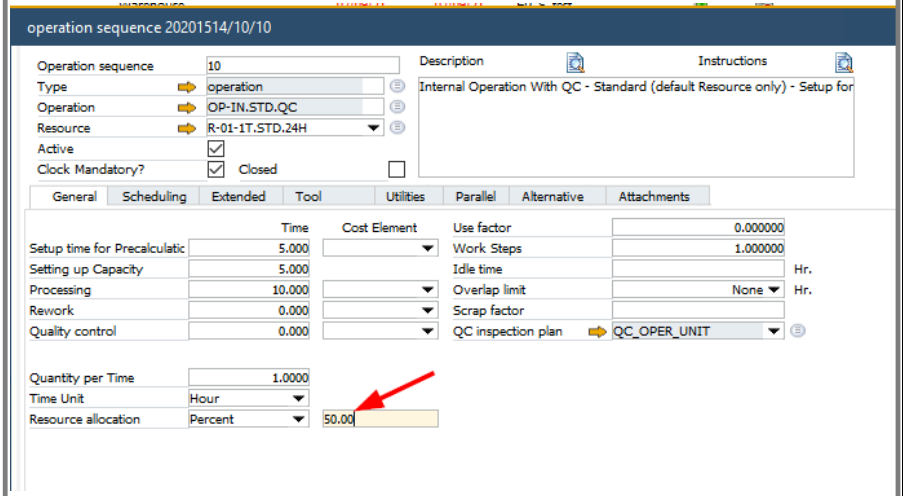
© 2026 Boyum IT Solutions A/S

	item-lot size is created. The setup time indicated here refers to the lot size in item master. **Separate reporting of setup times** If "Extend to cost elements" was set to 2 or more in the Resource, the setup time can be reported separately via FDC and evaluated separately in calculation. Enter the cost element to which the accrued costs are posted.
Setup time Capacity	The set-up for scheduled capacity in hours or minutes is considered in capacity planning and throughput time calculation. This setting has an effect on calculation of target time.
Mach+Labor Time/unit	The actual processing time per work step. The field designation can be changed in **Configuration wizard > Master Data > Resources > Time types** or via Ctrl+ double-click in the text field. Times are specified in units "Times in ..." (hour/minute) and refer to "Times per .. " finished parts taking account of the utility and work steps in units of usage of the assembly. The Cost Element field specifies the cost element for which the planned or accumulated costs should be totaled, facilitating detailed analysis. Tools that determine the throughput time and also alternative operations can only influence the job time (processing time). ***See*** Calculation of planned time.
Secondary, main time	Secondary time and main time. In addition to the job time, two other secondary processing times can be specified if "Extend to cost element" is set to 3 or 4 in the resource. The secondary processing times are designated in Configuration Wizard or via Ctrl+Double click in the text field. ***See*** Concept Time types.
Quantity per Time	Determines the assembly quantity the time refers to. Enter to which assembly quantity (Production UoM) the time refers to. Thus you can indicate even short lead times correctly.

© 2026 Boyum IT Solutions A/S

	Example: Lead time 0,0001 minutes per piece To make it more readable, you can enter 1 minute per 10000 pieces If it is a fixed time, enter 0 at "quantity per", that means this time is needed only once per lot size. Same effect as for setup time. ***Example:*** Lot size 10 Production 50 pieces Time = 2 Minutes per 0 Total time: 5 lot sizes a` 2 minutes = 10 minutes **Fix Quantity: Quantity per Time = 0** This means you need the time per lotsize ***Example***: 3 Minute per 0, you produce 100 Pcs. The System calculates 3 Minutes for all 100 Pcs. For additional information on lot sizes ***see*** Precalculation – Display and lot sizes.
Time Unit	Unit of time in which times are stored – hours or minutes. The default can be stored in the options.
Resource Allocation	The extent of utilization of a resource. Determines the utilization of the available resource capacity.  ***See*** Default Calculation type: Reallocate forward.

© 2026 Boyum IT Solutions A/S



Type	Description
Number	Number of resources used (subject to the prerequisite that the resource exists more than once, e.g. if the resource is a group of persons. Where 2 is input for 5 persons, the resource of 2 persons is scheduled at most. Note: If this is not 1, the system uses the calculation method Exploit Full capacity for this routing position.
Percent	Percentage utilization of the resource. ***Example 1***: Group of 6 persons. At a utilization of 50% the resource of 3 persons is used at most. ***Example 2***: Machine which is only partly utilized. To extend the throughput time, a lower utilization can be specified here. If 20% is specified, throughput time is quadrupled while costs remain the same. Note: If this is not 100%, the system uses the calculation method Exploit Full capacity for this routing position.
Simple	Default setting: For "Simple", only one resource is 100% utilized.

Note:

© 2026 Boyum IT Solutions A/S

	For Detailed planning (i.e. a resource should be planned to the minute) the option must be set to "Simple".
Operation active	Determines whether the operation is active and can be used You can set here whether the operation should be included. Apart from Yes/No, a condition is also possible, such as production quantity greater, in between or smaller than a specification defined here. ***Example***: The operation in which a small machine has been defined should only be used when the production quantity is smaller than 30. If it is greater, an operation should be used in which a large machine with a respectively higher set-up time but smaller mach+labor time is stored. Quantities refer to "per units of usage" of assembly. Note: This switch is only visible if in the Configuration wizard – Routing – Operation field show is activated. Operation catalog: In operation catalog this field is not available. Routing: In routing it can be set up depending on the quantity: **Yes**: Always active. **No**: Not active. Quantity bigger: Only active if quantity exceeds the given value. Quantity smaller: Only active quantity falls below the given value. Quantity between: Only active if the quantity is between two given values. Thus you can activate a routing depending on the quantity. ***Example:*** Depending on the quantity, a certain resource is to be used. until 10 kg (active quantity < 10 kg): Resource "small bowl", planned duration: 10 minutes from 10 kg (active quantity > 10 kg): Resource "big bowl", planned

© 2026 Boyum IT Solutions A/S

duration: 20 minutes

Field description

The value is saved in `aktivformel` with the following configuration `Id=Value1=Value2`

G = "Quantity bigger"

K = "Quantity smaller"

Z = "Quantity between"

N = "Not active"

J = "Active" (Default)

If the field is empty, the entry is treated as active.

Example: Only active for quantity between 10 and 20 "`Z=10=20`"

Note regarding variants / formulas

Only the following values may be returned here if a formula has been stored via the – icon: Y for "Active" or N "Not active". "bigger", "smaller" or "between" are not allowed via the formula system.

Generate Work order

By defining value "N" in the formula, the system does not insert the routing position in the Work order. This is to be activated in **Configuration wizard > Production > Create >** Apply inactive work order sequence.

Generate Precalculation

In Precalculation the system always transfers inactive routing positions. *(beas 9.3 PL 2)*

Generate new Item (Product Configurator)

By defining the value "N" in the formula, the system does not insert the routing position in the Work order. This is to be

© 2026 Boyum IT Solutions A/S

	activated in **Configuration wizard > Production > Product Configurator >** Apply inactive work order sequence *(beas 9.3 PL 2)* **Active field as Script** If you click in field Pos on – icon, you can define all fields with `setvar=e_[fieldname]=value` If you want to disable a routing position, use the following script: `setvar=e_aktiv=N` With *beas 2020.02* the Variable "`e_aktivformel`" is not supported. Pre-calculation In Precalculation there is an active-field and an "only if quantity" .... The second field has the same meaning as in routing. The operation is only active if the condition is met. Work order Only active routing positions are transferred to the work order. If you make a selection in the Configuration wizard to accept inactive routing positions as well, these will be transferred to the work order, and deactivated. You cannot log on to these operations and they do not cause time demand. This switch can be disabled manually.
Valid Period	In Precalculation Operation: Select the From - To dates of a validity period.
Use factor	Determines the use factor of the operation If several parts are produced with only one work step, the use factor is higher than 1. ***Example*** Cut a plate with a saw Duration: 1 minute Result: 2 plates, per 1 plate, only 30 seconds are required. Use factor in this case:2

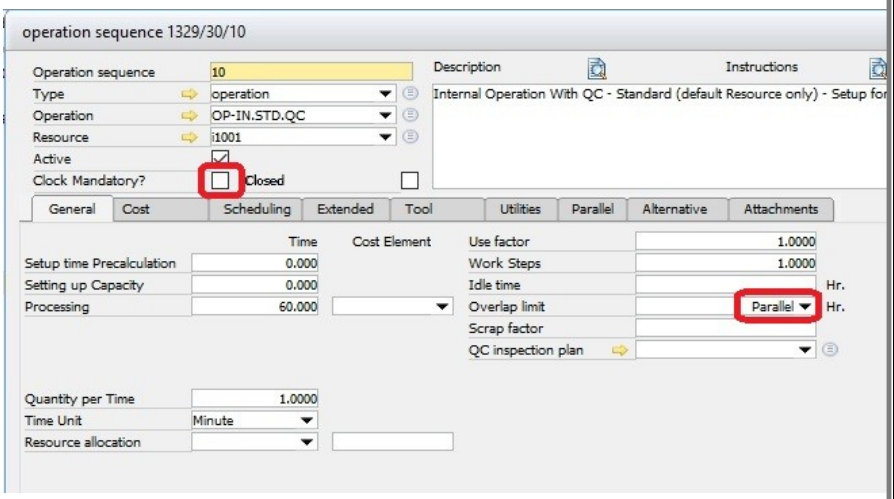
© 2026 Boyum IT Solutions A/S

	Example 2: Injection molding with 12 nozzles. One process creates 12 parts, the use factor is 12 in this case. ***See*** Calculation of planned time.
Work steps	Works opposite to the use factor. Define how many work steps are needed for one part If several steps are needed to finish one part you can enter the number here ***Example:*** Tighten 10 screws. Per screw, 15 seconds are needed. Piece time is `15 seconds` Work steps `10` Total time `15 * 10 seconds = 150 seconds` ***See*** Calculation of planned time
Idle Time	Idle time in hours in which the semi-finished part must not be further processed, e.g. drying time, cooling etc. `|--- Transfer time --| |-- Planned time --| |--- Idle time---|` The resource is available at this time for other orders. There are no arising costs . Forward Scheduling: The next sequence of operations can begin only after the idle period. The idle time should not be used for the extension of lead times. It is recommended to use transit time (***see*** resources). By default, factory calendar and resource calendar are not considered. These can be taken into consideration by changing the settings in the Configuration wizard.
Overlap Limit	The overlap time to the next operation is stored in hours. By using overlap settings, you can define the delay for the subsequent

© 2026 Boyum IT Solutions A/S

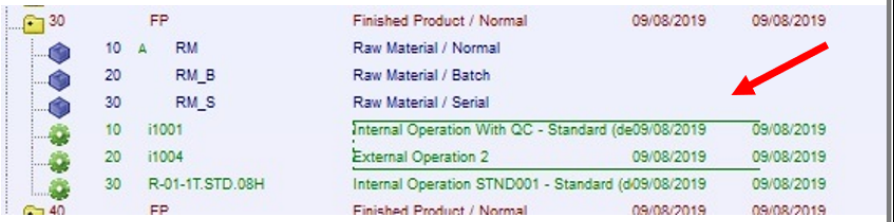
work sequence or define to start it in parallel.
Unlike parallel resources, the subsequent work sequence can be moved freely.

You can define the overlap limit in **Routing position > Overlap limit**.
Choose "Parallel", "No" or insert the number of hours/minutes manually.
If this is defined in Position 10, the next position will be parallel.
This means: "Clocking mandatory" must be disabled, because you can start with Position 20 before closing Position 10.



Window fert_arbplanos_edit.psr

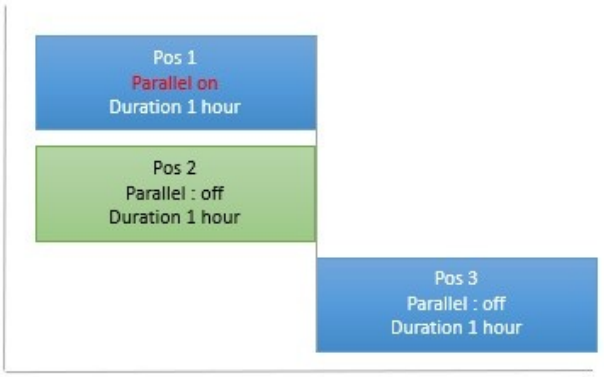
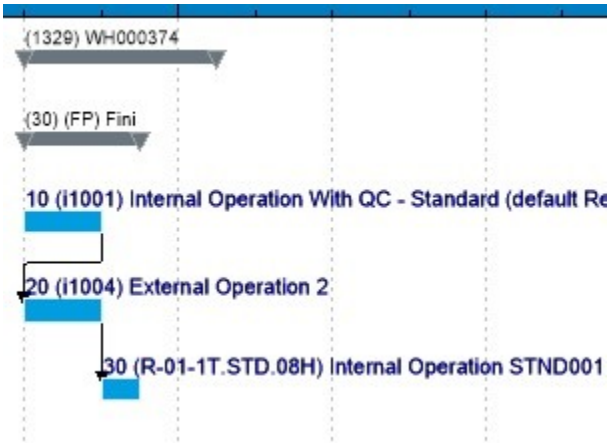
In Item Structure view you can see parallel / overlap limit information in this way:
In this example in Position 10 the "Overlap limit" is defined:



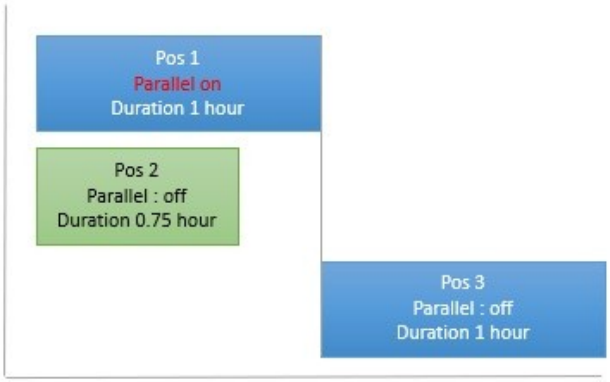
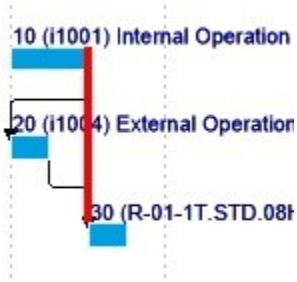
Note:

Overlap calculation runs correctly only with forward calculation.

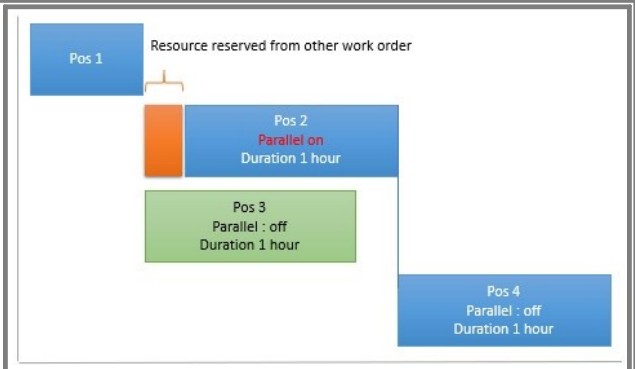
© 2026 Boyum IT Solutions A/S

Value	Meaning
0	No overlap.
Parallel	⊟ Next Routing position will have same or next possible start date ⊟ Forward calculation The earliest start date of the following operation can be the same as the first one or the next possible start. The next possible start may also be earlier than the one of the previous operation. ***Example 1 :*** Pos 1 is defined as parallel, so Pos 2 can start parallel to Pos 1  View in Beas  Start of 3. routing position is after the end of the

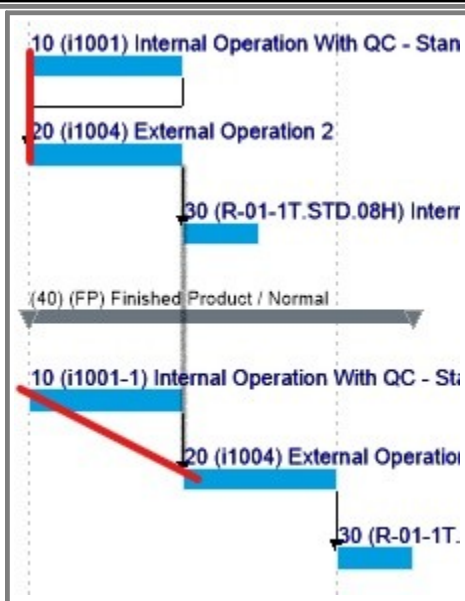
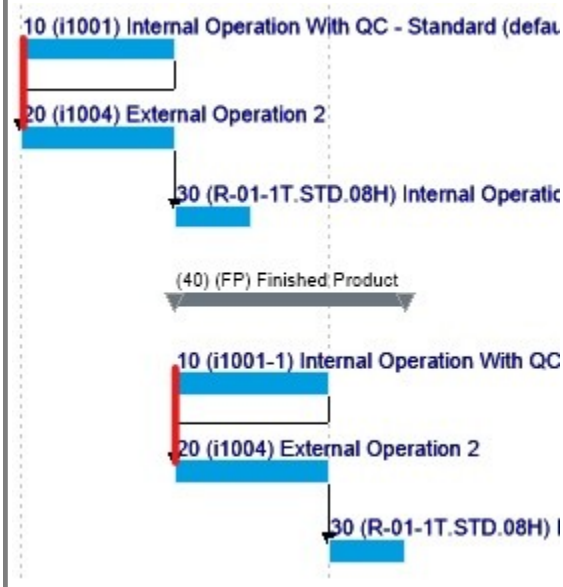
© 2026 Boyum IT Solutions A/S

Value	Meaning
	latest parallel routing position. ***Example 2***: Pos 2 needs less time than Pos 1.  View in Beas  Start of next routing position is always after the end of the latest parallel routing position. ***Example 3:*** *Scenario:* Position 3 is parallel to Position 2, but after Position1 finishes, resource for Pos 2 is not available. For example Resource is reserved by another work order. If the resource is not available immediately, the routing position starts at the next available time. In this example, the position 3 can start **BEFORE** the first position:

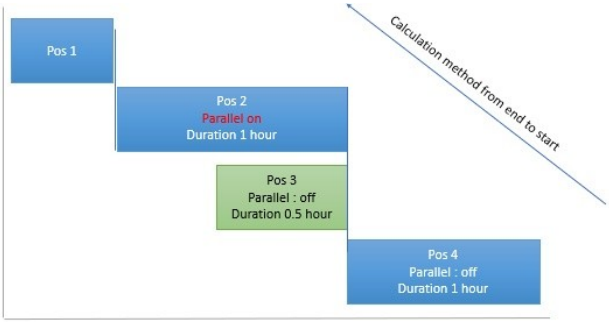
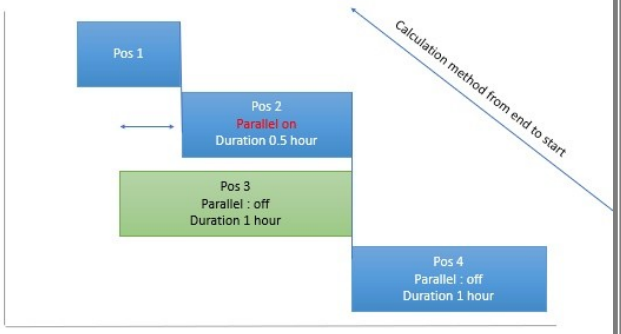
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 ***Example 4:*** Scenario: 2 work order positions. Both WOs have defined the 2. operation as parallel. Start date is same. First operation has different resource, but the second parallel operation has same resource for both WOs. Explanation: The parallel resource uses the start date, on which the resource is free. For the first WO this is the time when operation 1 starts. In the second work order position you see that the start date of second operation does not start together with the first operation. The reason is that WO 1 already occupies the resource. So the second operation of WO can only start after the operation 2 of WO 1 stopped. In that case the the second operation does not start parallel but delayed:

© 2026 Boyum IT Solutions A/S

Value	Meaning
	 You can set parallel-defined operations to always run in parallel in the Configuration wizard. Result with setting "Overlap limit = fix" Start date of Pos 40 on Resource i1001-1 start later, because the next resource i1004 is not available before. 

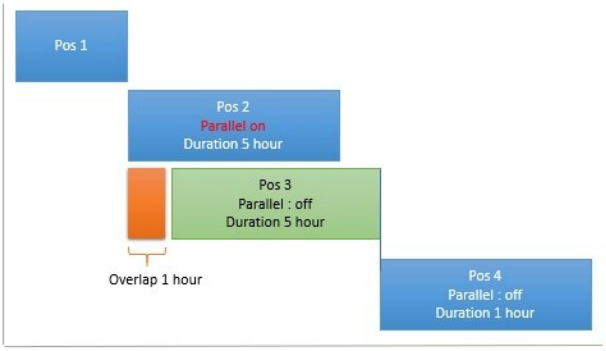
© 2026 Boyum IT Solutions A/S

Value	Meaning
	See APS fix parallel routing positions Backward Calculation The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration. Parallel resource: The system calculates the following:  If duration of Pos 2 is less than that of Pos 3, then Pos 1 ends with the start of Pos 2.  In this case, the system is working different from forward calculation. If you work with backward calculation, the first parallel position must have the longest duration. Differences between parallel resource and parallel operation Parallel resource: - is always parallel - 100 % - Parallel resource have always same start / end

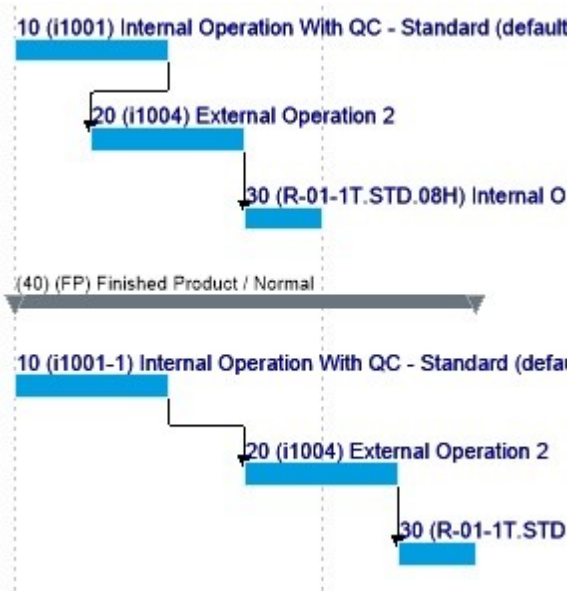
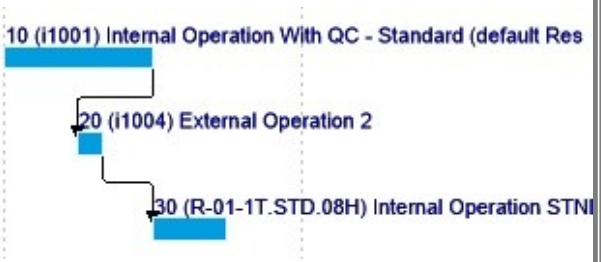
© 2026 Boyum IT Solutions A/S

Value	Meaning
	time - Use Parallel resource, if you don't need this resource 100% (Example: A worker is the "parallel resource", but is working on 4 machines in parallel. In this case he must invest only 25% for his time for this operation) Parallel Operation: - is not always parallel. Only if the resource of parallel operation is available - can have different work time - can work with resource optimization - can have own parallel resource, tools and so on
> 0 Overlapping	Overlap of the following routing position or assembly if it is the last routing position. Forward Calculation The Overlap time define, when the next operation can be started. The time, which you define, is the delay in hours/minutes, until the next operation starts. The defined time is the earliest time. **Example:** 2 hours means, the next operation can start - 2 hours after start current operation or after end of this current operation (if the current operation is less than 2 hours) - if resource of next operation is not available after 2 hours, then at the time, when the resource is available. **Example:** In this scenario the start date of the third routing position is the real start date of the second routing

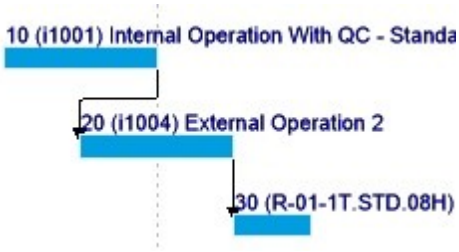
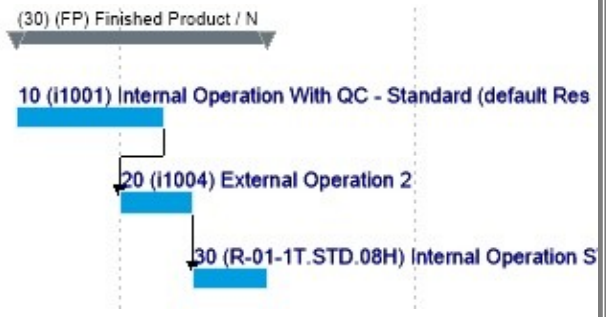
© 2026 Boyum IT Solutions A/S

Value	Meaning
	position + defined overlapping time in hours, here 1 hour.  An overlap is specified in hours – based on a 24-hour day. The specified overlap always applies to the following routing position. The overlap time is not bound to a resource calendar. This is purely hour-based time excluding time reservations or other factors. The overlap time begins AFTER the transit time. The next routing position cannot possess a transfer time, otherwise it will be appended to the transfer time. ***Example:*** Scenario: 2 Work orders, same routing plan. In first operation different resources. Overlap limit = 0.5 hours First work order: Position 20 start 0.5 hours after

© 2026 Boyum IT Solutions A/S

Value	Meaning
	start of position 10 Second work order: Position 20 start later, because the time is reserved from first work order  If you want, that the overlap have always exact the same overlap time, a setting is available. ***See*** Configuration wizard ***Example:*** Scenario: Work time of second work order position is less than the work time of the first operation. In the first operation, overlap time is defined:  In this case you're ready with second routing position before you're ready with first routing position. But you can start with third routing position only, if all parallel / overlapped routing

© 2026 Boyum IT Solutions A/S

Value	Meaning
	positions are done. In this case after end of Routing position 10.
	Backward calculation
	In a simple example the result of backward calculation is same as forward calculation Example: Work time 1 hour, overlap 0.5 hour in first operation  But is the duration of second operation is not same as first operation, then the result is different to forward calculation: The system calculate backward: First 30, then 20 - from 20 the overlap is calculated (Start time from Operation 20 + Overlap time from Operation 10 = End time from Operation 10.  Alternative for backward calculation is "forward late as possible" Note: The backward calculation cannot calculate the

© 2026 Boyum IT Solutions A/S

	<table><tr><th>Value</th><th>Meaning</th></tr><tr><td></td><td>correct start date. It is only capable of calculating the duration.</td></tr></table>
	Note:
	The last operation corresponds to the last "reportable operation".
	If an overlap is also configured in the last operation, Beas does not recognize this as the last operation.
	However, the automatic assembly receipt or adjustment of the backflushed material depends on this.
	
	Overlapping using assemblies
	Assemblies can also overlap in an order-related structure.
	Example:
	`|- Main assembly -|`
	`|--- Subassembly -|`
	
	Start date of the main group is normally the end date of the last routing position of the subassembly. If this last routing position has an overlap, this is also considered.
	Important: If an overlap is entered in the last routing position, it is no longer recognized as the "last routing position" in the backflushed posting transactions.

Scrap Factor	Scrap factor related to this routing position in % In this field an additional Scrap factor on routing position level can be defined. This is calculated as (Mach+Labor) / 100 * Scap Factor Example: Production 8 Pcs Setup Time = 60 Minute Labor Time = 10 Minute

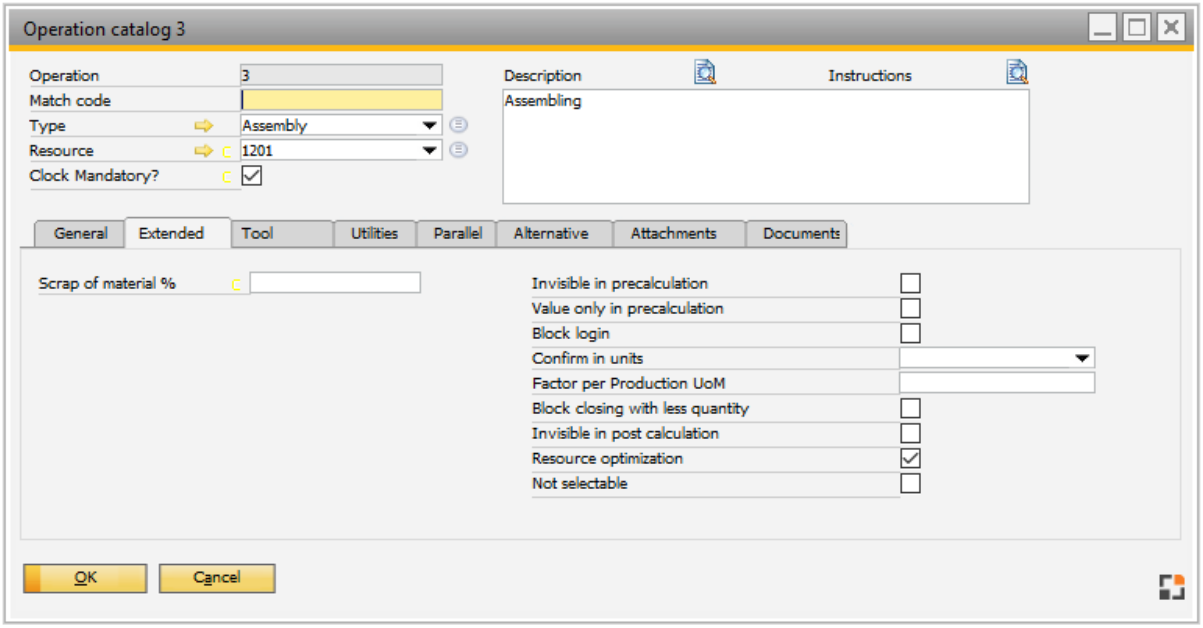
© 2026 Boyum IT Solutions A/S

	Scrap Factor = 5 % Total Time = 60 + (8 * 10) + (8 * 10 : 100 * 5) = 144 Min.
QC Inspection Plan	Store a QC-inspection plan in operation If a QC-inspection plan is stored, – depending on the settings – a QC order will be created. ***See*** Configuration wizard Measured values can be registered via QC-order, Terminal or WEB-Apps. If respective rules are defined, the release of the next operation may depend on that. ***See*** Configuration wizard – FDC – login rules ***See*** QC-inspection plan Quality control order
Number of payslips	Information field – if applicable, for information on number or pay slip printouts.
Expand to Cost Elements	In Precalculation Operation: Select the number of cost rates. The default is one cost element (processing time), which can represent a mixed calculation of machinery and personnel costs. Select the number of cost elements you are to use in Precalculation, update the window, and the selected cost elements appear in the Costs tab. ***See*** more details in Costs.
Value Labor costs separately	In Precalculation Operation: If this option is activated, a separate cost rate can be stored for personnel costs and the "Labor cost rate" field appears in the Cost tab. ***See*** also Costs.

3.2.6.9.2.2 Extended

Administration > Setup > Production > Operation Catalog > Open an operation to edit > **Extended** tab

© 2026 Boyum IT Solutions A/S



Field	Description
Valid from / to	Define the Valid Date Area. If no date was entered, it is valid always, otherwise only in the specified period. **Precalculation:** Precalculation date serves as reference. In Precalculation, all BoM positions are displayed but only the valid ones are valued. **Production** Depending on **Configuration wizard > Production > Capacity planning > Default calculation method** Calculation backwards: Delivery date serves as reference. It is checked only at work order creation. If the delivery date is changed subsequently, there is no second check as long as the work order is not updated. Item-Processing time: The Delivery date of the respective assembly serves as reference. The item-processing time of the respective assembly will always be used for the calculation of the completion date of a sub-assembly *(beas 9.1 PL: 08)*.

© 2026 Boyum IT Solutions A/S

Field	Description

	Creation via ue_api_wo
	The parameter "validdate" can be defined additionally, if the work order will be created via the API. *(beas 9.1 PL: 08)*
	`declare=wo=ue_api_wo`
	`wo=set=validate=<mydate>`
	`// .. normal script to create or refresh a work order`
	
	Sales order in Order recommendation
	At breakdown of the assemblies the delivery date of the sales order is used, minus the average delivery time, stored in the Configuration wizard.
	
	Special case: **Configuration wizard > Production > Capacity planning > Default calculation method = Default calculation method**
	The calculated date of requirement of the respective sub-assemblies is used as reference date for sub-assemblies.
	
	Example 1
	A supplier changes the item number from a given date
	Pos 10: previous item number until date x
	Pos 20: new item number from date x+1
	
	Example 2
	At date x additional material is required.
	If larger changes are needed, we recommend to use item version control.

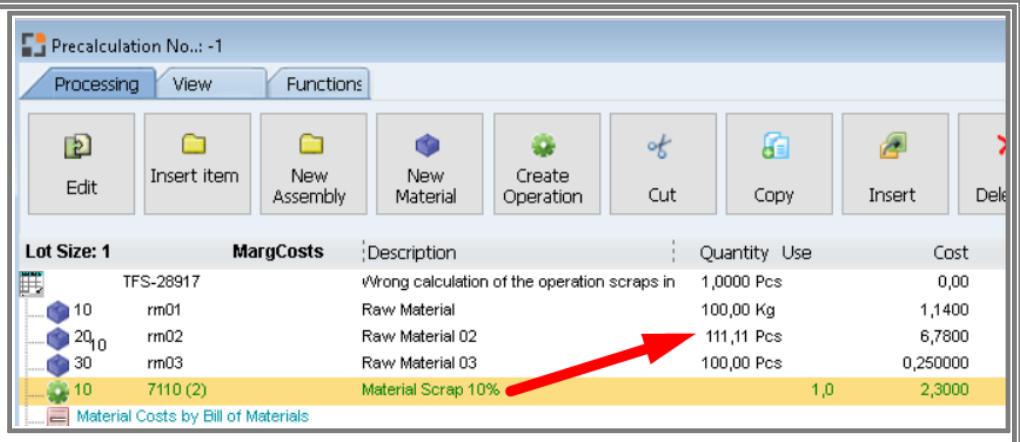
I-Version From	Field used to select the first I-Version to be taken into account in a range.
I-Version To	Field used to select the last I-Versions to be taken into account in a range.
I-Version Range	Field used to select the specific I-Versions to be taken into account. Clicking on the will open the Multiple selection window to choose several versions.
Scrap of Material	Material scrap %

© 2026 Boyum IT Solutions A/S

Field	Description
%	In **Routing position > Extended** you can define the Scrap of Material related to a routing position. ***Example:*** You must produce and fill 6 kg of paste. 15% is lost during filling. Now you must calculate how many liters of paste are needed. **Calculation** Correct formula is: Quantity: (100 – Scrap %) * 100 If you need 6 kg of finished product, you need 6 kg : (100 - (0.15) * 100 = 7.059 kg paste If you see the opposite: I fill 7.059 kg paste and lose 15% = 7.059 - (7.059 / 100 * 15) = **6 kg** In the **Configuration wizard >** "Behavior for Routing Scrap of Material % affects" you can define how the program should work. The "Exceeding planned quantity allowed" affects BoM position - material scrap: The Minimum/Maximum percentage is calculated based on total quantity. ***see*** Configuration setting. The following settings are available: Only the linked material is affected by the Scrap % setting Result see this example:

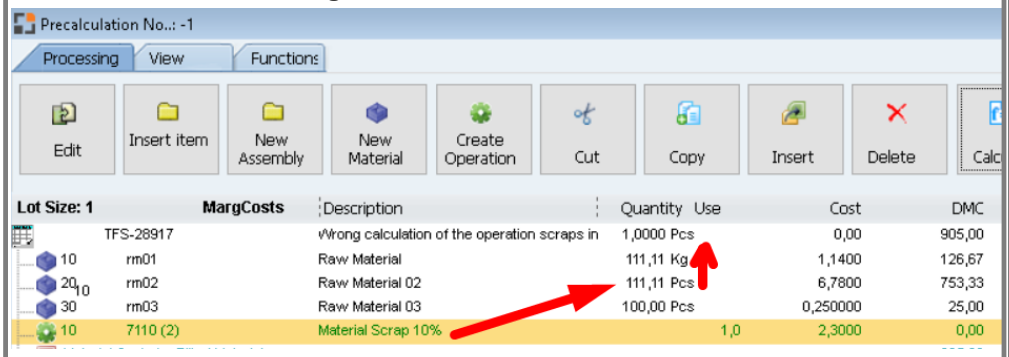
© 2026 Boyum IT Solutions A/S

Field	Description

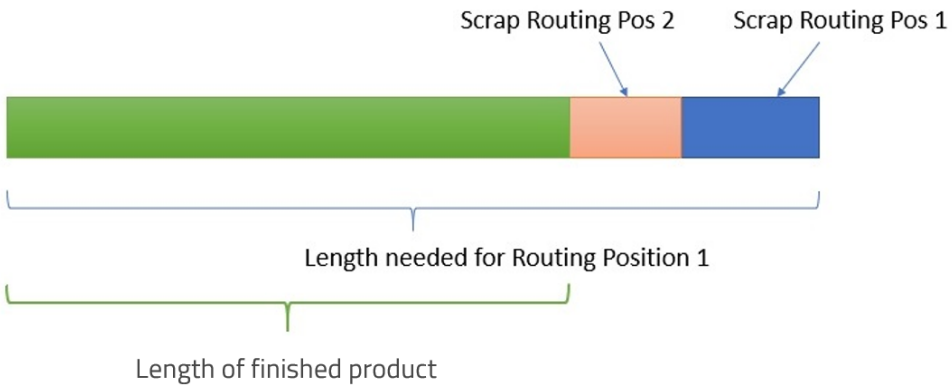


All materials under the last linked materials are affected

This is the Standard setting



Example: When a bar is sawed, a scrap rate of 10% may incur. If the material is ground, the bar becomes even shorter, that is a longer length must be cut beforehand,



Example:

© 2026 Boyum IT Solutions A/S

Field	Description

We need a finished product with a length of 250 mm.

We start with 308.65 mm - sawn : scrap 10% = 277.78.
Continue with 277.78 mm - ground : scrap 10% = 250 mm.

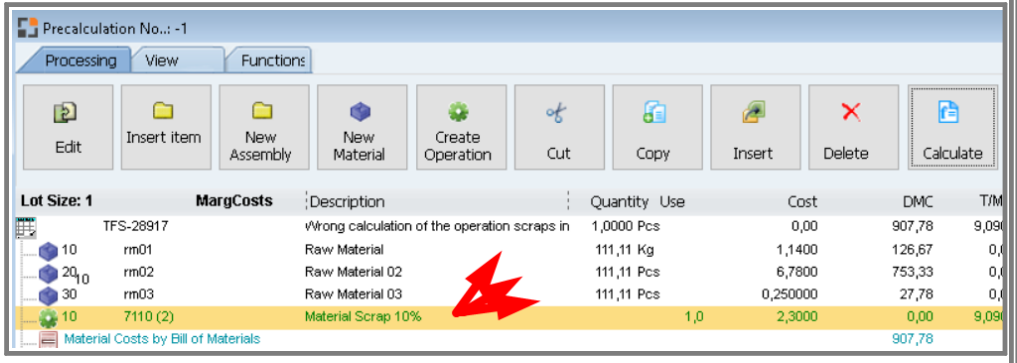
Routing Position	Material	Quantity	Scrap %
10 sawed	bar	308.65 mm	10
20 ground		277.78	10
30 QC		250 mm	

Calculation

Correct formula is: Quantity : (100 – scrap%) * 100

Position 20 we need 250 : (100 – 10) * 100 = 277.78
The value is entered into the production BOM item, column "calculated scrap" as fix value.

All materials are affected by the Scrap % setting



Notes:

- This field is only visible when the parameter in **Configuration wizard > Master data > routing > "operation related material scrap**" is enabled.
- The Item Report – Item Structure report does not support Material Scrap factor on Routing Level.

© 2026 Boyum IT Solutions A/S

Field	Description
	• Enable this option only if absolutely necessary; the computation will take considerably longer. • In Work orders this field is blocked, because scrap of material is determined only at the moment of creating the work order. • When checking which routing positions are considered, the following criteria apply: - Validity date - Active (no formula, no quantity check) - Variants (A–Z) Not checked: - Variants formulas, Product configurations
Personal allowance %	Define the rate of personal allowance. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Recovery time %	Define the rate of recovery time. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Efficiency Rate %	Define the rate of Efficiency rate. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Invisible in Precalculation	Control the visibility The position is inserted in the calculation but not valued and also not displayed, i.e. these are available here but completely invisible. Creating a work order from calculation, this operation will be inserted. Different behavior applies to "blocked operations". These are not included into the work order. *Field in Document: precalc_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 2* *Example:* *0*00000 = Pos 1 = 0 = Off *1*00000 = Pos 1 = 1 = On
Value only in	Control the Visibility "only in pre-calculation" If this option is active, the position is only valued in the Precalculation, but is not

© 2026 Boyum IT Solutions A/S

Field	Description
Precalculation	transferred to the work order and is also ignored in the scheduling function in the material requirements list. *Field in Document: workorder_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 2* *Example:* *00**0**000 = Pos 2 = 0 = Off* *01**1**0000 = Pos 2 = 1 = On*
Block Login	Block the login or receipt of order times If active, the affected resource is not reserved and a logon/logoff or time-related message of any type is blocked (the "Clocking mandatory" option must be deactivated). *Field in Document: workorder_lock* *Field in Database: BEAS_FTAPL.FLAGS, Pos 3* *Example:* *000**0**00 = Pos 3 = 0 = Off* *001**1**000 = Pos 3 = 1 = On*
Confirm in units	Confirm in Units Determines in which UoM quantities will be reported for this operation sequence via the terminal. ***Example***: Production Unit = kg Confirm unit = Liter, Factor = 1.2 If you create a time receipt with 1 Liter, you confirm 1,2 kg in production unit This is considered in Production Time Receipt External production - Collective Purchase Order.
Factor per Production UoM	Unit conversion factor Determines the conversion factor between time receipt unit and the production unit of the Assembly ***Example:*** Example: Production Unit = kg Confirm unit = Liter, Factor = 1.2

© 2026 Boyum IT Solutions A/S

Field	Description
	If you create a time receipt with 1 Liter, you confirm 1,2 kg in production unit
Block closing with less quantity	If active, the planned quantity needs to be posted If this option is enabled, the operation can only be completed with a time receipt if: - the full planned quantity was reached - the reported quantity of the previous operation (mandatory to report) was reached, the quantity is larger than 0 and the previous operation is closed. Note: The operation can be closed at any time. *Field in Document: workorder_minqtylock* *Field in Database: BEAS_FTAPL.FLAGS, Pos 4* *Example:* *000**0**00 = Pos 4 = 0 = Off* *000**1**00 = Pos 4 = 1 = On*
Invisible in post-calculation	Define the visibility on post-calculation. If active, the position is hidden in the post-calculation – for planned and actual cost calculation. *Field in Document: postcalc_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 5* *Example:* *00000 = Pos 5 = 0 =*
Resource optimization	Activate resource optimization. If enabled: If the stored resource is part of a resource group, at scheduling, the resource is automatically selected from the group with the shorted lead time. Note: Option can only be changed if the APS has been licensed. ***See*** Resource group Alternative Resources *Field in Document: resourcenoptimization*

© 2026 Boyum IT Solutions A/S

Field	Description
	Field in Database: BEAS_FTAPL.FLAGS, Pos 6 *Example:* *000000 = Pos 6 = 0 = Optimization is on* *000001 = Pos 6 = 1 = Optimization is off*
Slave op. sequ. belongs to Master	Define which operation is the master-operation for this operation It is possible to define a master operation. An order time receipt is done automatically on all operations if a quantity or time has been receipted via the master operation. Thus a receipt can be done for multiple operations at once. ***Example:*** Master-operation 10 Slave-operation 20 Slave-operation 30 If an order time receipt is done on master-operation 10, so is an receipt done on position 20 and 30, as well. Important: A concatenation of multiple operations is not possible, which means that a master-operation cannot be a slave-operation at the same time. **Notes:** Master-Slave operations are not connected to or affect parallel resources or parallel working. Not supported in WebApps and by the "Open QC Order after transaction" setting. **Master-Slave operations - time receipt creation** **IMPORTANT NOTE:** When the user defines Master-Slave operations when creating a Time receipt for a "master" operation, Beas first generates all Time receipts for the slave operations, and *then* the time receipt for the master operation. Due to this sequence, if something fails during the time receipt process of the master operation, the previous Time receipts are **not** rolled back.

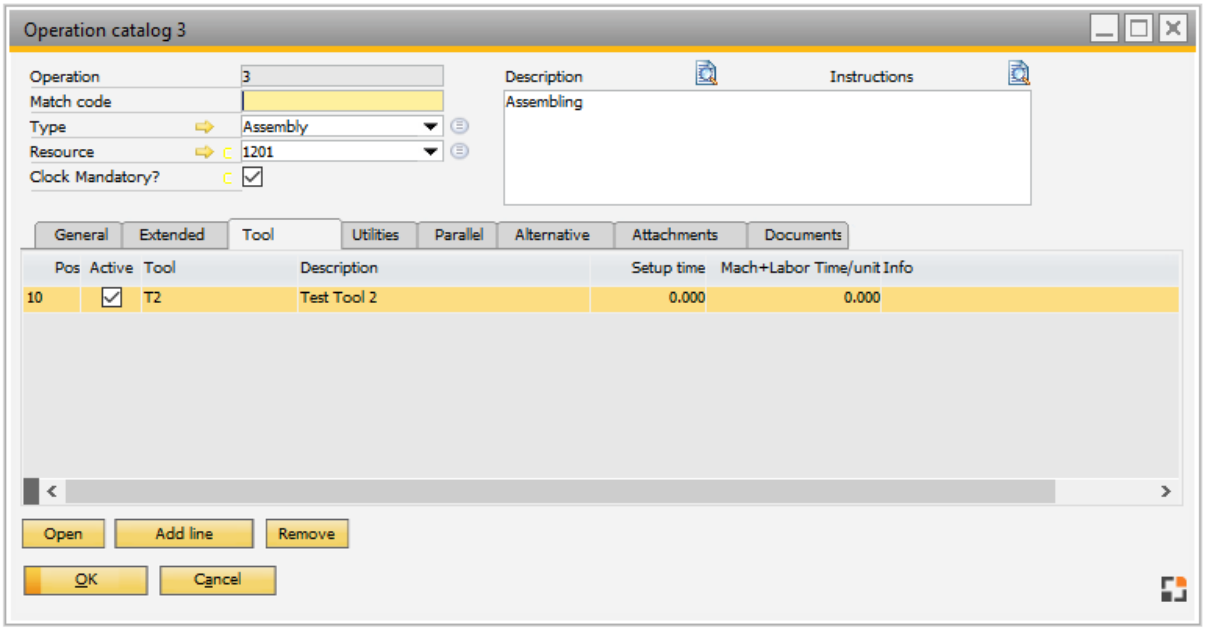
© 2026 Boyum IT Solutions A/S

Field	Description
	Working with master slave ***See***: Configuration wizard - Master-Slave
Not selectable	Only operation catalog: If active, the entry is hidden and can no more be selected.
Image	Image for this operation, for better recognizability ***See*** Image selection.
Color	With this color the operation is displayed in all screens. ***See*** Color selection.
Synchronization	Determine the behavior at import At import or inserting a routing position, the routing is always deleted completely and re-imported. Use the settings to manipulate the behavior on routing position level. **yes:** Position will be deleted before the import **do not delete:** Position will not be deleted, but can be overwritten **no:** Position will not be deleted and cannot be changed.

3.2.6.9.2.3 Tool

Administration > Setup > Production > Operation Catalog > Open an operation to edit > **Tool** tab

© 2026 Boyum IT Solutions A/S



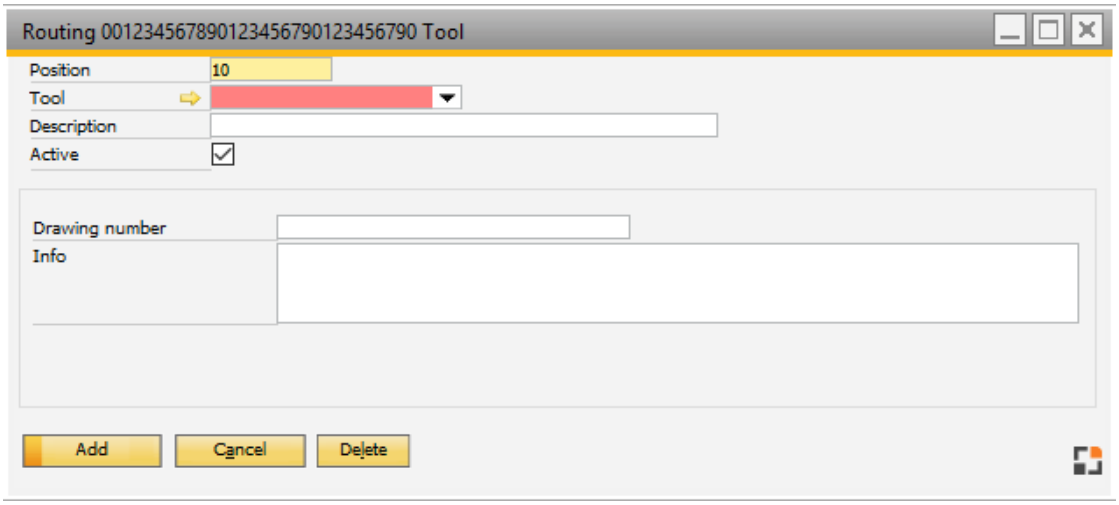
Field description of the Tool tab

Field	Description
Position	Consecutive number, but not a primary key. The list output is sorted by this number.
Tool	Tool key (selection from master data / tools).
Active	Checked if entry is active.
Description	Designation of the tool (cannot be changed).
Defines lead time	⊟ Does the tool determine the lead time? If enabled, the default times of the tool are transferred to the operation. In this case, the tool influences lead time. Only values are used, which had been entered in "planning". Empty fields are ignored. If more than one tool was stored in an operation and for both "determine lead time" was enabled, only one tool can be activated. Activating or exchanging the tool is possible in Work order structure or in APS – graphic view.
Setup time	Setup time.
Mach + Labor Time/unit	Job time. Machine + operation time per unit

© 2026 Boyum IT Solutions A/S

Adding a new tool

To assign a new tool to the selected operation sequence, click on "**Add line**" under **Routing > Tool tab** and the following window opens:



Window artikel_arbplanpos_Edit_werkzeug_edit.psr

Field	Description
Position	Field used to sort the tool lists from the routing. It is a consecutive number but not a primary key.
Tool	Field used to assign the tool to perform this operation. This field is mandatory.
Description	Field used to display the tool description. This field cannot be changed because it automatically comes from the chosen tool.
Active	Check box field used to set the tool as active in the routing.

Important: Tools that define lead time cannot be simultaneously active for the routing position. Only one of them can be active at the same time, but the active tool can be switched directly in work orders. The time information is copied to the operation. Therefore, the user must check one tool as “Active”; all other tools that define lead time are deactivated automatically.

(Previously Resources tab, in which tools, alternative work sequences, and parallel work sequences were listed in a table)
A second row of buttons has been inserted here now. The top row of buttons relates to the tool list. Care should be taken here during processing.

© 2026 Boyum IT Solutions A/S

General tab

Field	Description
Drawing Number	The technical drawing number. This field cannot be changed because it is read from the chosen tool.
Info	Additional free text information on the tool entry.

Planning tab

This tab is only active if you have selected a tool with capacity planning.

Field	Description
Idle Time	Defines the time in hours after which the tool can no longer be used for other work orders (e.g. cooling, quality control, maintenance, etc.).
Next work sequence begins after idle time	If activated, the next work sequence can only be started after the idle time. Example: If the tool is a bin and this must be cooled before the finished product can be removed from the bin, the next work sequence can only be started after cooling. However, if the idle time is for quality control of a tool, you can begin with the next work sequence immediately (i.e. switch deactivated).

Default Time tab

This tab is only active if the tool defines the throughput time.

If this tool is activated (only one tool can ever be activated which defines the throughput time), its throughput time information is copied to the operation.

Note:

Only fields are considered where entries have been stored in the tool. Consequently, you can remove all entries. Work step and use factor are only used if > 0.

Example:

Setup time of tool = nothing entered

Processing time in tool = 5 mins

Setup time is not changed in operation, thus it comes from tool.

Please make sure that you work the same way for all tools.

© 2026 Boyum IT Solutions A/S

If a tool which determined the time is activated, it is transferred automatically to the operation at saving.

Field	Description
Setup time	Enter the setup time to start using the tool. Time specified per "Time per". **Important**: This replaces the operation setup time when this tool is used.
Processing time	Set the time the tool takes to produce the items. This is the actual processing time per unit produced in the routing position. The processing time for a unit of quantity per "Time per" in consumption unit per "Quantity per" finished parts. **Note**: Secondary processing times cannot be specified here.
Quantity per ..	Defines the number of finished parts in consumption units during the processing time refers to, e.g. 10 minutes per 1000 kg.
Time per	Specify whether the time unit for the setup and production processes is hours or minutes.
Use Factor	Split the production time amongst more finished goods.
Number	Number of required work steps e.g. 10 work steps in "processing time".
Utility	Utility factor, e.g. 10 units are produced at once per step or hub and per processing time.
Cost Element	Set the account in which the standard costs from the usage of this tool is booked. Accumulated costs are written to this cost element.

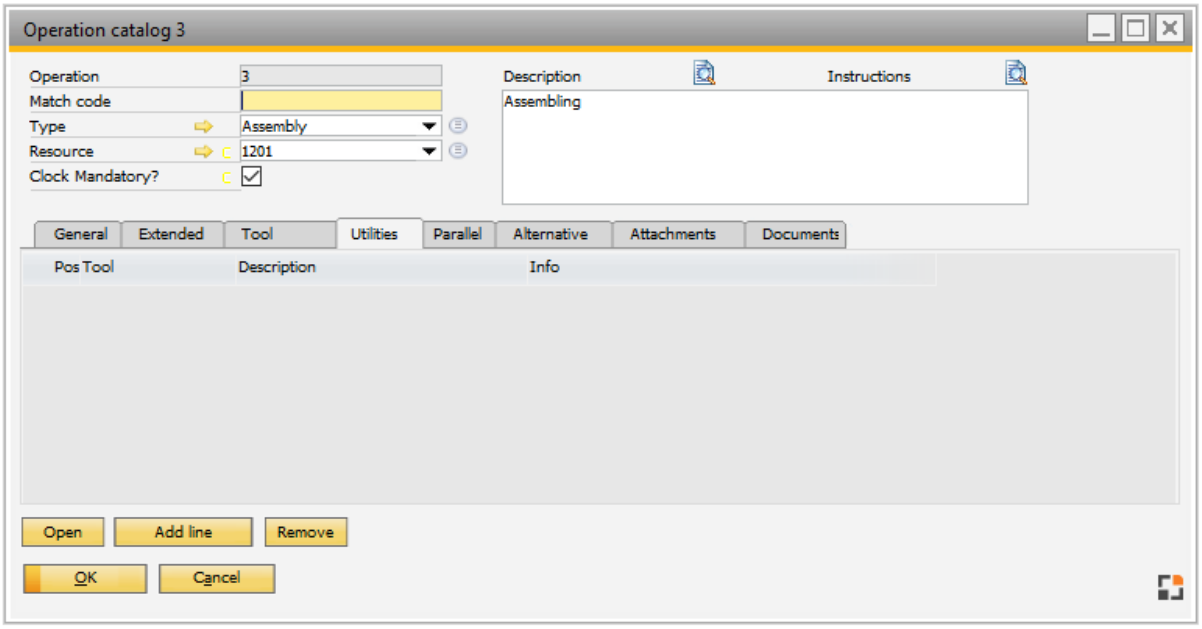
General settings on tools:

See: Tool administration.

3.2.6.9.2.4 Utilities

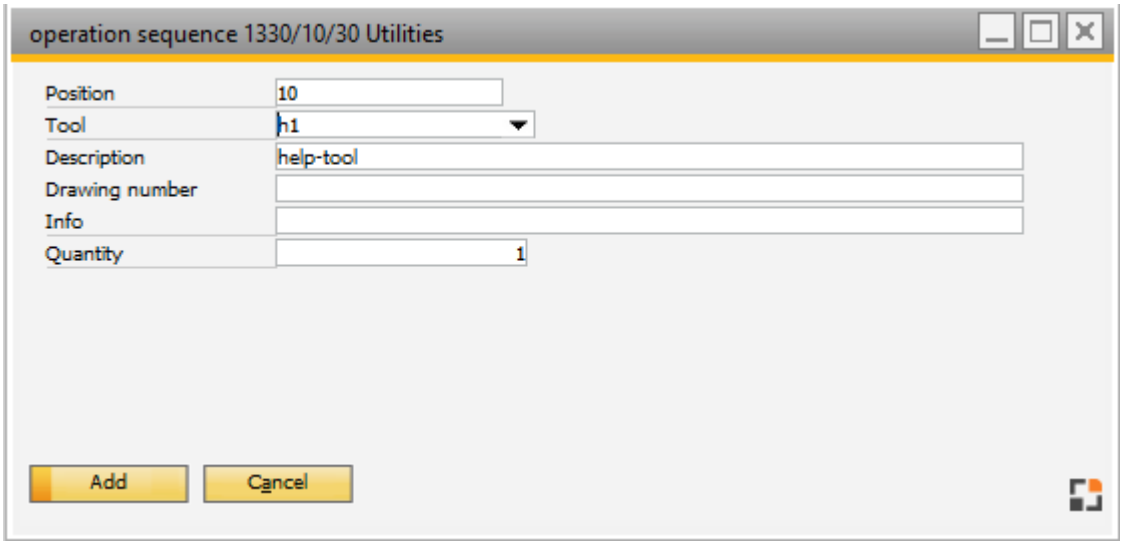
Administration > Setup > Production > Operation Catalog > Open an operation to edit > **Utilities** tab

© 2026 Boyum IT Solutions A/S



Add a new Utility

To assign a utility, click on "**Add line**" under **Routing > Utility tab** and the following window opens:



Window artikel_arbplanpos_edit_hilfswerkzeug_edit.psr

Field descriptions

Field	Description
Position	Sort the utilities list from the routing. It is a consecutive number, but not a primary key.
Utilities	Utility key (selection from Master Data / Tools / utilities). Assign the utilities to perform this operation. This field is mandatory.
Description	Displaya the utilities description. This field cannot be changed

© 2026 Boyum IT Solutions A/S

	because it is read from the chosen utilities.
Drawing Number	The technical drawing number. This field cannot be changed because it is read from the chosen utilities.
Info	Additional free text information.
Quantity	Specify the number of utilities needed to perform the operation. This field is for information only and has no influence on the routing position.

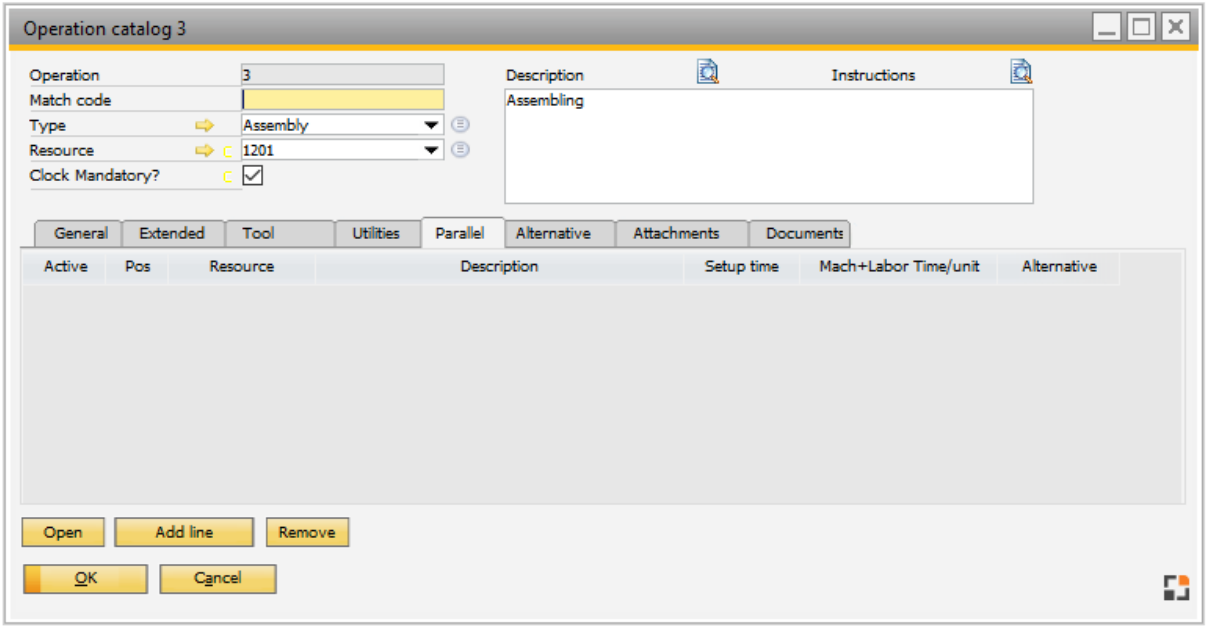
Buttons:

Open: Click button to open the editing window of the selected utility (***see*** image above "Add a new Utility")

Remove: Delete utility for this routing position.

3.2.6.9.2.5 Parallel

Administration > Setup > Production > Operation Catalog > Open an operation to edit > **Parallel** tab



In the Parallel tab, Beas displays a list of all resources that will be used in parallel with the main resource assigned in the Header. The user can insert, edit and delete resources.

Important: Only use parallel resources if a separate time planning is required for parallel resources.

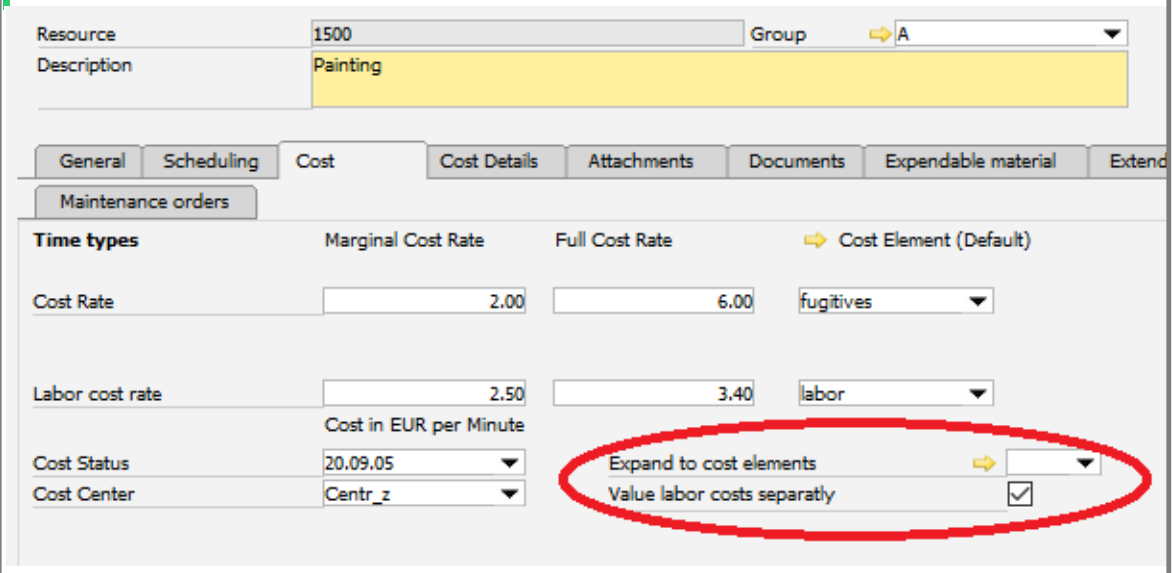
NOTE: Parallel operations do not consider quantities and do not manage Open/Close status!

- Alternative possibilities:

© 2026 Boyum IT Solutions A/S

a) Define personnel costs separately. Thus these costs will be calculated separately.
b) Up to 4 separate cost elements can be defined, which can also be receipted separately.

PATH: Resources > Resource Master Data XXX > Cost tab.



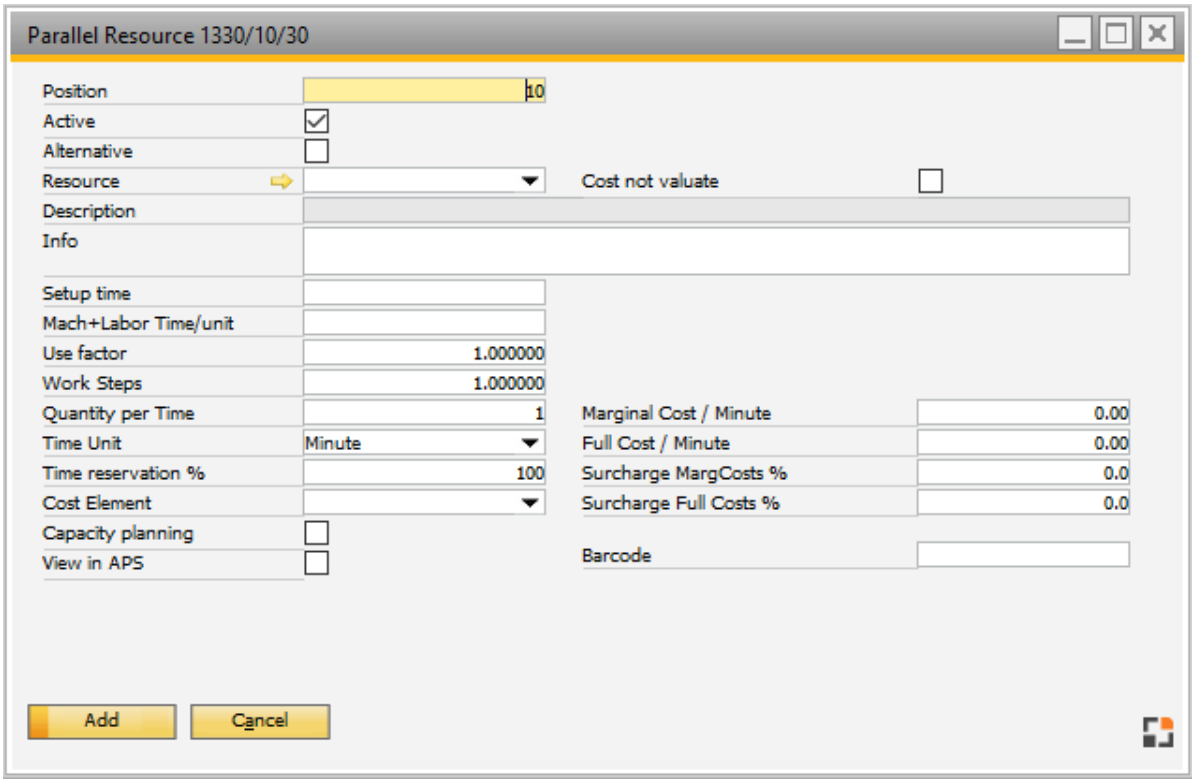
Window stamm_arbplatz_edit.psr

To assign a parallel resource, click on New and a new window opens:

PATH: Inventory > Item report >

1. "Open" an entry >
2. Routing tab >
3. "Open" routing position >
4. "Parallel" tab >
5. "**Open**" / "**Add line**".

© 2026 Boyum IT Solutions A/S



Window artikel_arbplanpos_edit_parallel_edit.psr

Field	Description
Position	Used for sorting the parallel resource list from the routing. It is a consecutive number, but not a primary key.
Active	Set parallel resource active. If enabled, only one position can be active. **Important**: Only one parallel resource can be activated which defines the throughput time per routing. This information is copied to the operation, therefore, the user must check one parallel resource as "Active", and all other resources should have "Active" unchecked.
Alternative	Set if this parallel resource can also be alternative to other parallel resources for the same operation.
Resource	Resource ID of the parallel resource **Note**: No external resources or resources with extended cost rates , for example personnel costs, are allowed.

© 2026 Boyum IT Solutions A/S

Cost not valuate	Determine whether to consider resource costs in calculation If enabled, the resource costs of this parallel resource are ignored. Precalculation and post-calculation are affected. Costs created with time receipts are not taken into account. Use this option if the cost is included with the main resource. Disabled by default. *beas 9.1 PL: 08*
Description	Description of the resource that comes from the resource master data and cannot be changed.
Info	Additional free text information.

Throughput Time area

This information relates only to Business performance, not to the throughput time of the work sequence itself, as this is ALWAYS parallel to the main work sequence and always has the same start and end time.

Field descriptions

Field	Description
Setup time	Setup time of the parallel resource process.
Mach+Labor Time/unit	The Mach+Labor time for a unit of quantity using the *Time unit* in consumption units *Quantity per time* finished parts. **Note**: Secondary mach+labor times cannot be specified here.
Use factor	Split the production time amongst more finished goods ***See*** Calculation of target time.
Work steps	Used as a multiplication factor for the production times ***See*** Calculation of target time.
Quantity per Time	Used as a multiplication factor for the production times
Time Unit	Defines times in hours or minutes. To register a processing time independent from the quantity you can enter 0. ***See*** Calculation of plan time.
Time reservation (%)	If no setup and edit time was entered, the time of the main operation * time reservation is used as reference.

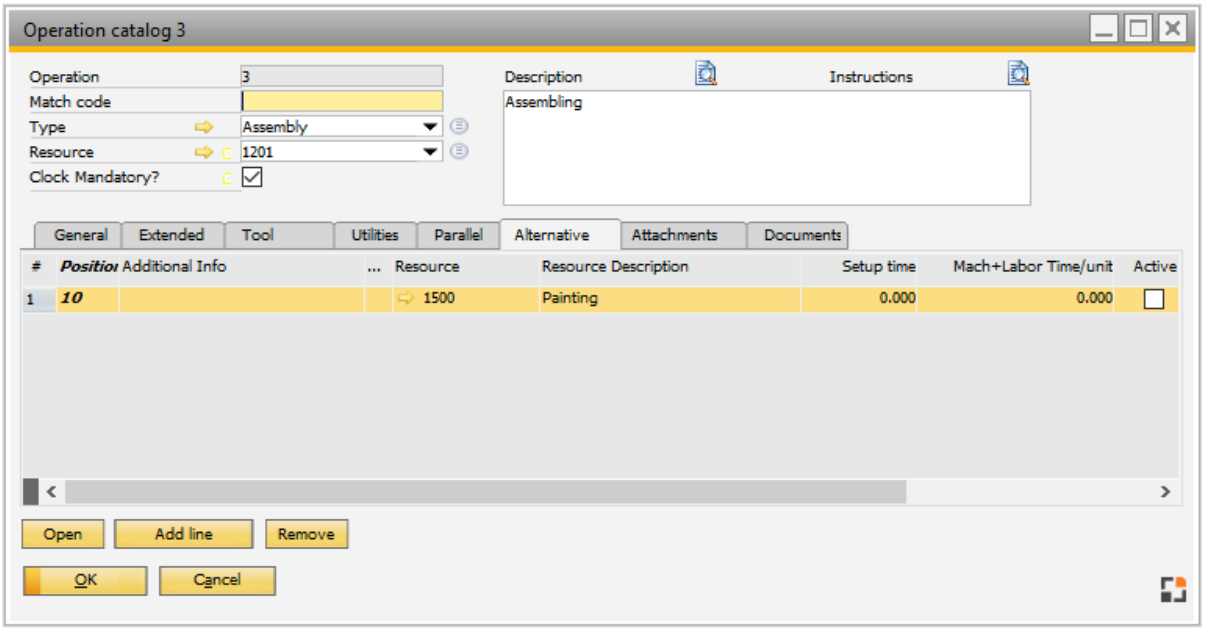
© 2026 Boyum IT Solutions A/S

	At which % should the resource be scheduled? ***Example***: The parallel resource is an employee operating four machines at once. He needs to be available for the machine at the whole time but only at 25%. ***Example***: The parallel resource should work during 30% of the main resource time, the user can enter the value "30" in the Time Reservation field, and Beas calculates the times for the parallel resource automatically. If the setup time or processing time is entered, in Precalculation this value is ignored. ***See*** Calculation of plan time.
Cost element	Accumulated costs are written to this cost element.

Technical information:
Parallel resources share a database table with tools, utilities, and alternative operations.
Structure of bar code on routing card: 6-digit beas_ftapl.number + 3-digit beas_ftapl_wkz.pos_id

3.2.6.9.2.6 Alternative

Administration > Setup > Production > Operation Catalog > Open an operation to edit > **Alternative** tab

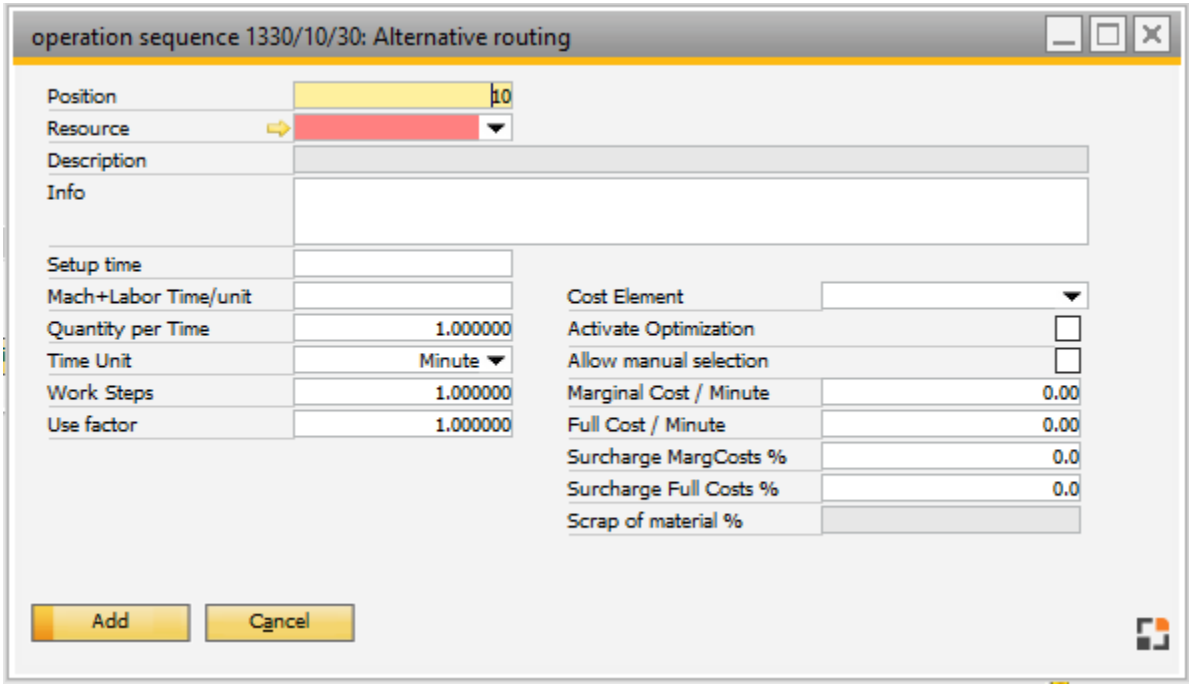


© 2026 Boyum IT Solutions A/S

In this tab you can define alternative resources related to a routing position.
In APS and Work order you can change the alternative resource with one mouse-click.
The alternative resource can have its own parameters as setup time, processing time etc.

The option "Optimization"checks whether a faster production would be possible using this alternative resource.

The user can insert, edit and delete resources. To assign an Alternative resource, click on **Add,** and a new window opens:

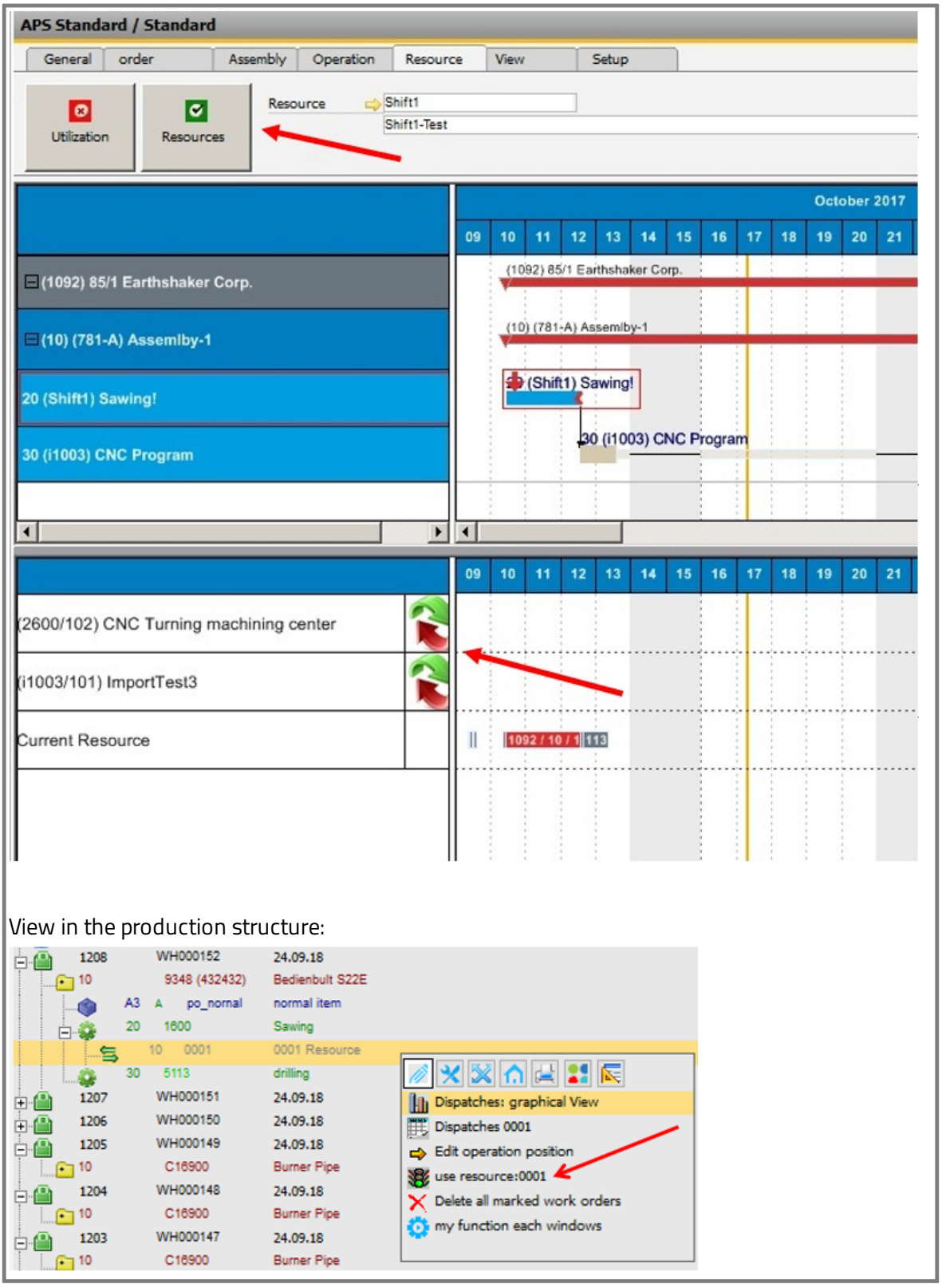


fert_arbplanpos_edit_alternativ_edit, artikel_arbplanpos_edit_alternativ_edit, stamm_ag_alternativ_parallel_edit

- The alternative resource can be selected manually in APS – graphical view and in production structure view.

  Selection in the APS view:

© 2026 Boyum IT Solutions A/S

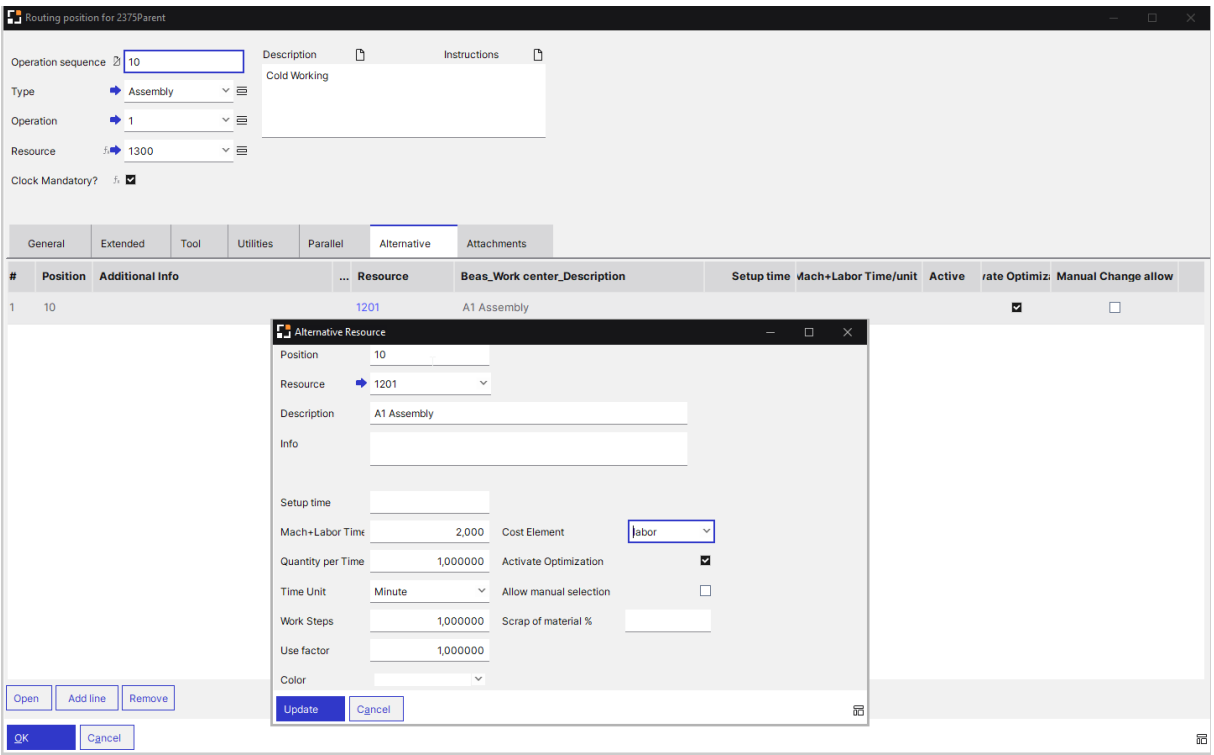


See Overview alternative resources

© 2026 Boyum IT Solutions A/S

The alternative resource can be selected manually in the APS – graphic view and Production structure display.

Note: Alternative resources are not supported in the Precalculation.



Field	Description
Position	Used for sorting the parallel resource list from the routing. It is a consecutive number, but not a primary key.
Resource	Select the resource ID of the parallel resource from the existing resources. The alternative resource can be selected manually in the APS - graphic view and production structure display.
Description	Description of the resource that comes from the resource master data and cannot be changed.
Info	Additional free text information.

Throughput Time area

Field	Description
Setup time	Setup time of the alternative resource process. Default time can

© 2026 Boyum IT Solutions A/S

	be specified in the *Quantity per time* parameter.
Mach+Labor Time/unit	The Mach+Labor time for a unit of quantity using the Time unit in Production UoM Quantity per time finished parts. **Note**: Alternative resources do not manage Secondary+Labor times. Therefore, if a main resource manages secondary times when switching to an alternative resource, the information of the secondary values in the operation will be lost, especially if you want to return to the main resource again. In this case you will have to add those data manually or refresh the order if applicable.
Quantity per Time	Defines the number of finished parts in Production UoM to which the processing time refers, e.g. 10 minutes per 1000 kg. ***See*** Routing position.
Time Unit	Defines whether times are specified in hours or minutes. ***See*** Routing position.
Work Steps	Number of required work steps used as a multiplication factor for the production times e.g. 10 work steps in "processing time" are required .
Use factor	Use factor to split the production time amongst more finished goods, e.g. 10 units are produced at once per step or hub and per processing time.
Cost element	Accumulated costs are written to this cost element.
Activate Optimization	If active, define whether Beas should automatically select the most adequate resource, amongst the main and alternative resources in the APS calculation. The resource is replaced automatically.
Allow manual selection	⊟ Allow the manual selection of this alternative resource. This alternative resource can only be selected manually if this option is enabled. The event is canceled and receipted with the error message *'(aktivaplatz440)Resource cannot be selected when flag 'allow manual change' is off'* if this option has been disabled and an attempt has been made to select the resource. **Note**: A change is only possible if change has been allowed according to the production position (**Production position**

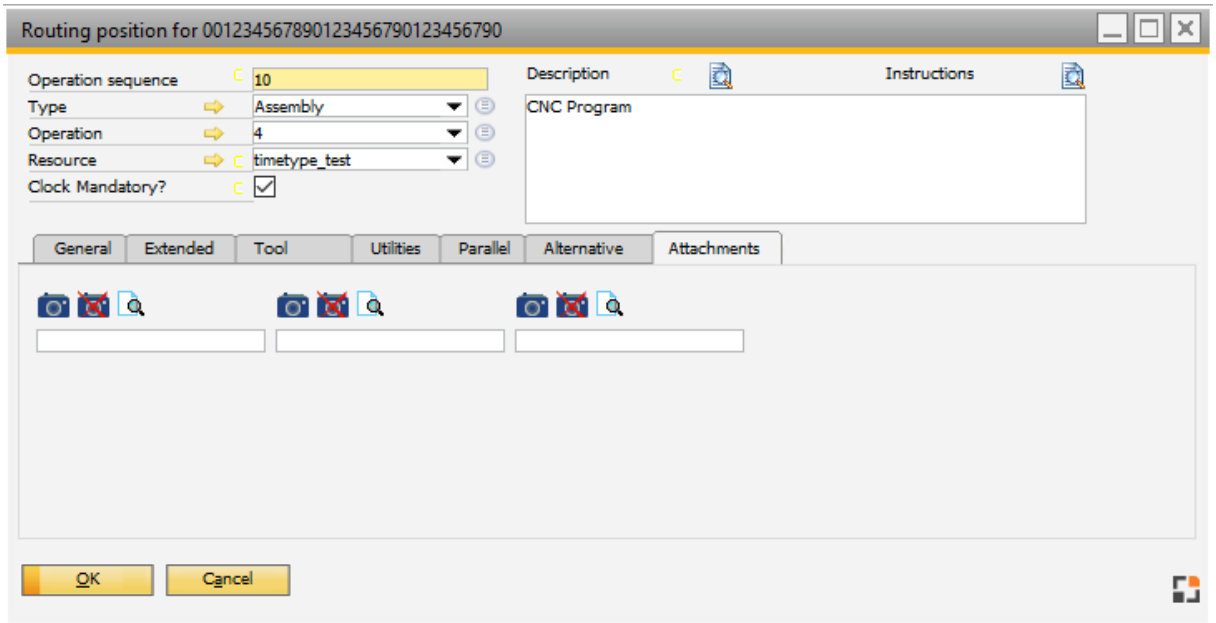
© 2026 Boyum IT Solutions A/S

	> **Allow change** has to be activated).
Scrap of material %	Define Scrap of Material. If the user uses this alternative resource, the system replaces the Scrap material % too and recalculates the scraps per Material for all routing positions. ***See*** Concept Scrap of Material Note: If you switch the resource with another Scrap of Material entry in the work order, the system calculates the new quantity of the related BoM Position, but not the quantity of order related sub assemblies. ***See*** this video: *Beas 9.3 PL 1*

3.2.6.9.2.7 Attachments

Administration > Setup > Production > Operation Catalog > Open an operation to edit > **Attachments** tab

There are three buttons for each field:



Window artikel_arbplanpos_edit.psr

© 2026 Boyum IT Solutions A/S

Icons

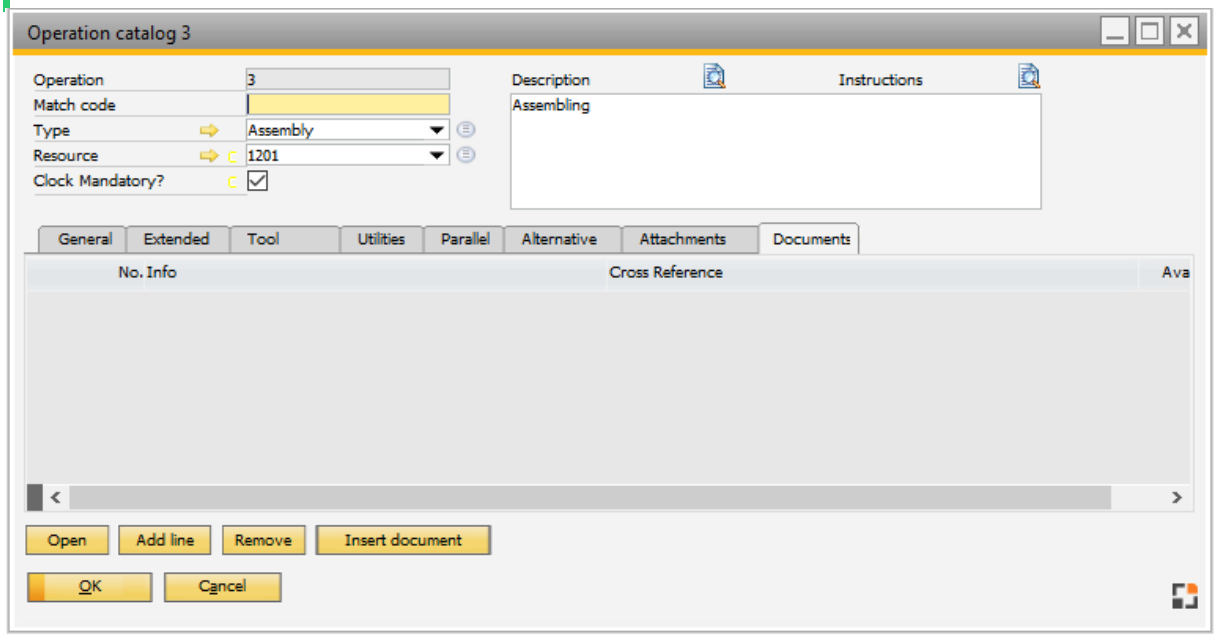
Traditional style	Boyum Style	Description
		The camera button enables the user to select an image or document to attach.
		The camera button marked with an "X" removes the attachment.
		The document with a magnifying glass opens the attachment.

All attachments included in this tab are available in the FDC Terminal.

For more information on storing images ***see*** Window.

3.2.6.9.2.8 Documents

Administration > Setup > Production > Operation Catalog > Open an operation to edit > **Documents** tab



Field Description

Type	Description
Info	Input of text information.
Version	Document version number.
Cross Reference	Directory and file name of the document.
Available	If active, the document exists; if deactivated, the reference is incorrect or

© 2026 Boyum IT Solutions A/S

	the user does not have access to the specified directory.
Entry From	Document was stored by...
Entry on	Document was stored / modified on ...

3.2.7 Project

PATH: Administration > Setup > Project.

For a project a project template is required.
In the task catalog you can define the tasks.
In Project cost types you define cost types to register project costs.

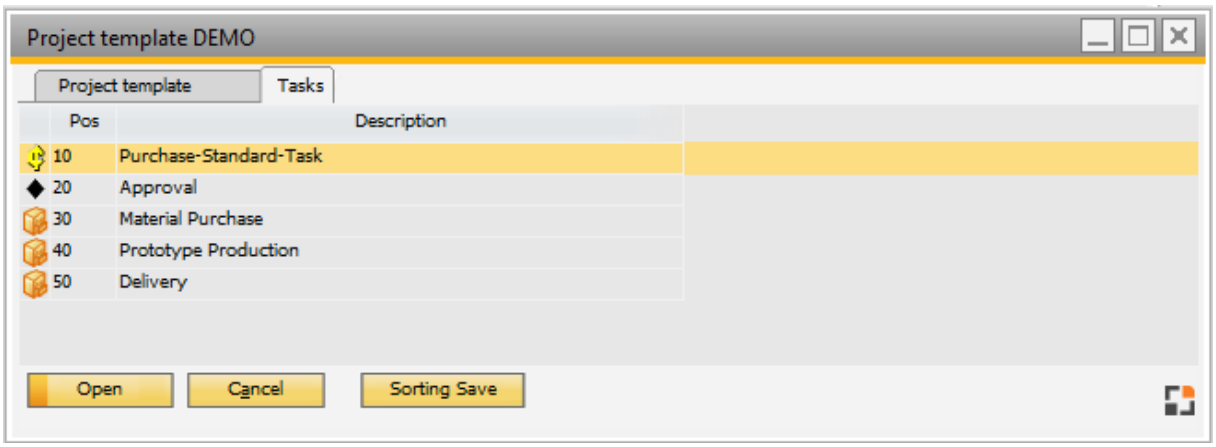
3.2.7.1 Project template

PATH: Administration > Setup > Project > Project template.
List of all project templates.

ID and description is displayed. Use "**Open**" or double-click to open the Editing window.
You can add a new template with the "**New**" button, or selecting it from the right-click menu.

3.2.7.1.1 Edit project template

PATH: Administration > Setup > Project > Project template > **Open** / **Add**.



© 2026 Boyum IT Solutions A/S

Window prjtemplate_edit.psr

Project template tab

Field	Meaning
ID	Creating a project template an ID needs to be assigned which cannot be changed subsequently.
Description	Enter a description for this template.
Work order	Creating a project in the background a work order is created which will be used for booking project related times.
Work order item	The header item of the work order, it may not be a storage related item.
Work order type	A production type needs to be defined and assigned to the work order. In this Production type it ins mandatory to activate the switch Project order. It is recommended, to create a separate work order type for this purpose. This makes easier to differentiate this order from other normal work orders such as storage related or sales order related work orders.
Attachments folder	Project related documents can be stored in this folder.
View Zoom	Zoom factor in %.

Tasks tab

Various tasks are assigned here to the project template. It is recommended, to define the tasks before in the task catalog.

Function	Meaning
Open	Open the marked task for editing.
Cancel	Close the current window without saving changes.
Add	Create a new task.
Remove	Delete the selected task from the template list.

back to Project templates

3.2.7.2 Task catalog

PATH: Administration > Setup > Project > Task catalog.

This window provides a list of all project tasks.

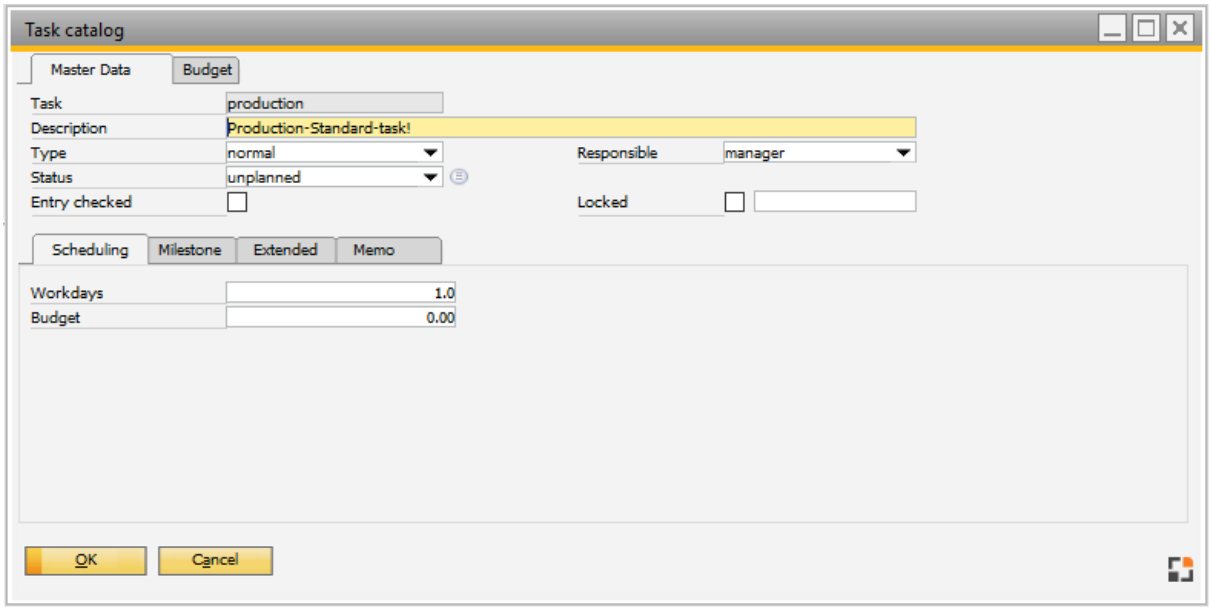
ID and description is displayed. Clicking the Open button over a task line or double-clicking a task opens the Editing window.

© 2026 Boyum IT Solutions A/S

3.2.7.2.1 Edit task catalog

PATH: Administration > Setup > Project > Task catalog > **Open** / **Add** button.

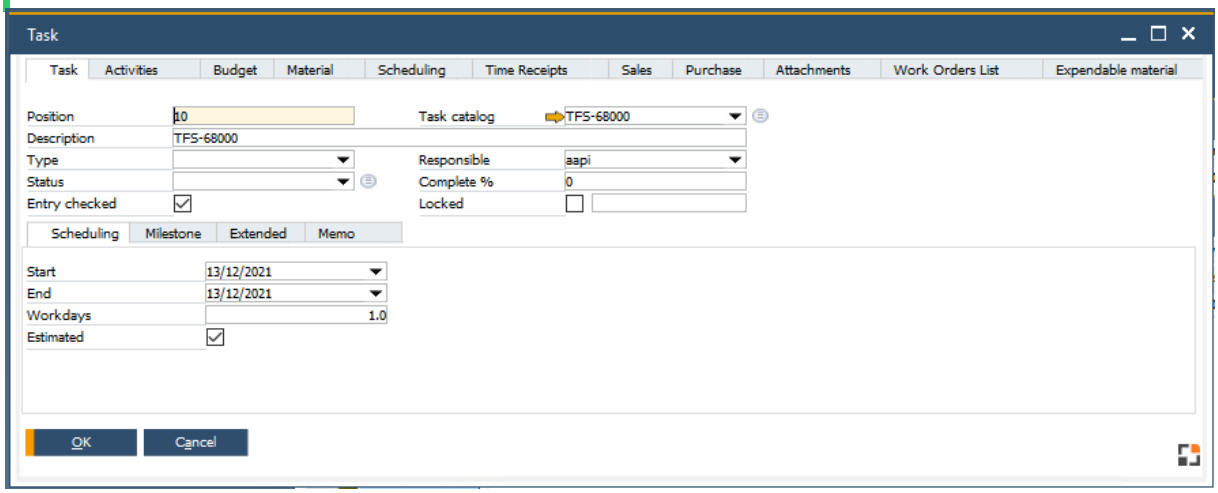
You can select a predefined Task catalog to create project templates or projects.



Window prj_linetyp_edit.psr

In this window you can edit a Project task / Project Template / Task Catalog.

PATH: Production > Project > **Open** a project >"Tasks" tab > **Open** a task from the list.



Window prj_line_edit.psr

Task tab / Master Data

Field	Description

© 2026 Boyum IT Solutions A/S

Position	Position of the task. Can be alphanumeric, the number does not determine the order of processing. Order is set up by sorting with drag&drop in the list. Notes on data structure: `beas_prj_line.prjcode` = Project number `beas_prj_line.lineid` = Task ID (same number as in template) `beas_prj_line.pos_id` = Visible position number `beas_prj_line.sortid` = Sorting `beas_prj_line.prjuid` = Unique ID of the task over all projects. Used for linking to other documents.
Description	Task description.
Type	Type of task: Milestone or Standard.
Status	Status of the task. Select a status. Only information, no function here. You can edit the statuses by pressing the selection icon. Values "complete%" and "blocked" are accepted after selection, but can still be changed afterwards. For more information, ***see*** Status
Entry checked	Determines whether an entry is marked as "checked". Unconfirmed tasks are marked with a warning, with icon .
Task catalog	Select a predefined task from task catalog. Visible when opened from Project Task and Project Template.
Responsible	Person in charge for this task.
Complete%	Determines the rate of completion for this task. In percent If in "Planning" tab - "Production % Processing" was not set to "manual", this field is blocked.
Blocked	Use this to block the task. When no more activities are possible, the task is marked with a Stop-Icon. Additionally, you can enter a blockage reason.

Tab: Task - Activities

Manage all activities assigned to a task. Create new and edit existing ones.

© 2026 Boyum IT Solutions A/S

Tab: Task - Budget
All assigned budgets are displayed with planned and actual values (times and money). Use the "**Calculate**" button to display all related budgets.

Tab: Task - Material

Tab: Task - Purchase
This tab within a Project task is visible only if the option "Purchase" was selected under **Task > Extended**. All assigned purchase documents are displayed. Use "**Open**" button to open the purchase documents.

Tab: Task - Sales
This tab within a Project task is visible only if the option "Sales" was selected under **Task > Extended**. All assigned sales documents are displayed. Use the "**Open**" button to open the sales documents.

Tab: Task - Scheduling
This tab within a Project task is visible only if the option "Scheduling" was selected under **Task > Extended**.

Tab: Task - Time receipt
This tab within a Project task is visible only if the option "Order times" was selected under **Task > Extended**. The resource selected for order time receipts is displayed. All reported order times are displayed. Use "**add**" to create new order related project times.

Tab: Task - Attachments
Manage attachments assigned to the task. Edit attachments and create new ones of type file or text.

Tab: Task - Work orders list
Work orders associated with the Task are listed in this tab. You can edit the WO document from here and create post-calculation for it as well.
This Project task tab is visible only if the option "Production" was selected under **Task > Extended**.

Tab: Task - Expendable material

Lower tabs

© 2026 Boyum IT Solutions A/S

Scheduling tab:

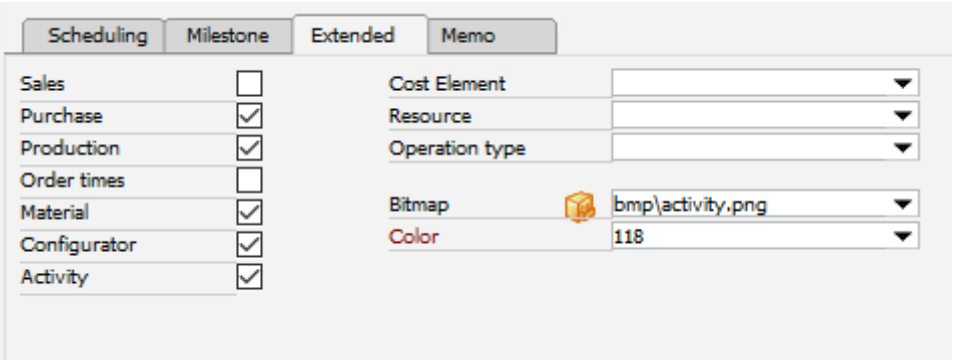
Field	Description
Work days	Work days planned for the respective task.
Budget	Define a budget available for the task.

Milestone tab:

Field	Description
Milestone	Assign a mile stone to the task or define a new one using the selection icon next to the drop down field.
Acceptor 1,2	Acceptor 1 of the event defined in the milestone.
Text	Text, displayed to Acceptor.

Extended tab:

In this tab you define, which documents can be created for which business objects.



Field	Meaning
Sales	When active, the following documents can be created from the task: Quotation, Sales order, Delivery, A/R down payment invoice, invoice, A/R credit memo.
Purchase	When active, the following documents can be created from the task: Purchase order, Goods receipt, A/P invoice.
Work order	When active, the following documents can be created from the task: work order.
Order times	When active, you can register or edit order times from the task. **Note:** Order times are meant to be project times not linked to a normal

© 2026 Boyum IT Solutions A/S

	work order. This could be installation time, meetings or project administration. If the flag order times has been activated, the fields cost element, resource and operation type are important to be filled, because the order times are booked using the project work order.
Material	Without function.
Configurator	Activating this flag allows the creation of a configuration from the task (only if the product configurator is used).
Activity	Activating this flag allows the creation of an activity.
Cost element	Cost element assigned for this task.
Resource	Assigned resource for this task.
Operation type	Assigned operation type for this task.
Image	Select an image for the task to be displayed in lists.
Color	Select a color for the task to be displayed in lists.

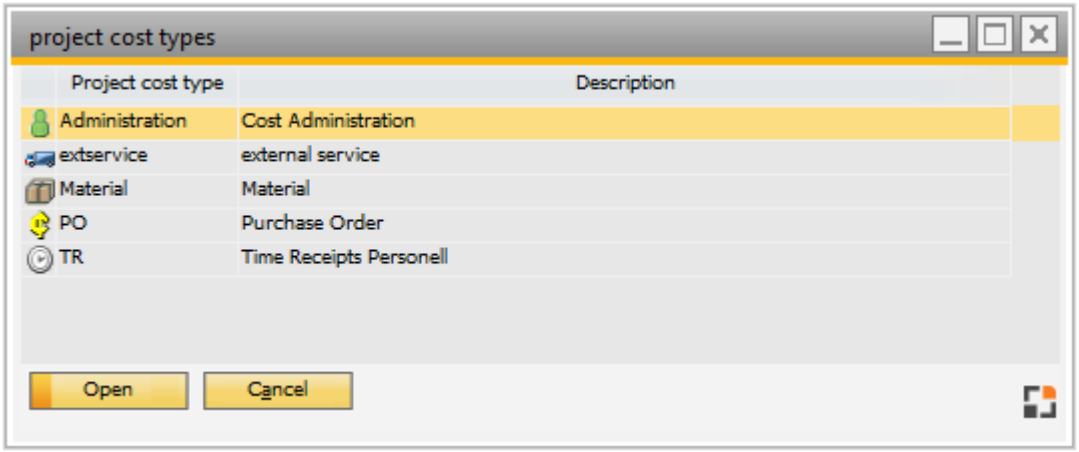
Memo tab:
In the editor window you can edit and store task-specific texts.

back to operation catalog

3.2.7.3 Project cost types

PATH: Administration > Setup > Project > Project cost types.

Project cost elements are required when working with budgets. Use project cost types to control which documents or project times are booked to the stored budgets.



© 2026 Boyum IT Solutions A/S

Window prjcosttype_browse.psr

List of all created project cost elements:

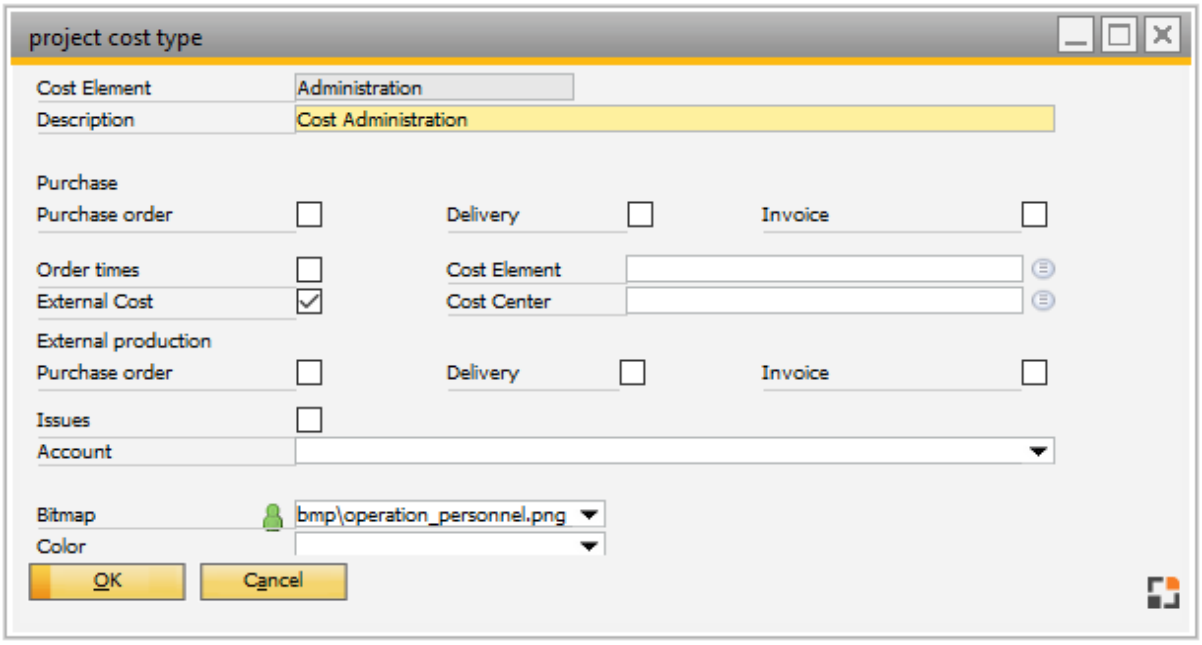
Function	Meaning
Open	Edit an existing Project cost element.
Cancel	Close window without saving changes.
Add	Create a new project cost element.
Remove	Delete the selected project cost element.

Edit Project cost elements

3.2.7.3.1 Edit project cost types

PATH: Administration > Setup > Project > Project cost types > **Open** / **Add** button.

In this window you can edit cost types for a project.



Window prj_costtype_edit.psr

Field descriptions

Field	Meaning
Cost element	ID or short description of project cost element.
Description	Detailed description of cost element .

© 2026 Boyum IT Solutions A/S

Purchase flags: Purchase order / Delivery / Invoice	Flags below define which documents will charge the budget. If more than one document is selected, the documents will be balanced against each other. ***Example***: Flags are set for purchase and for invoice. A purchase order of 1000 EUR is created from a task, 1000 EUR are charged to the budget. After receiving the payment, the invoice is booked. The invoice amount is not 1000 EUR but 1100 EUR. Then, the budget will be charged another 100 EUR – in sum 1100 EUR.
Order times	If active, order times related to project tasks are charged to the budget. By selecting a cost element right to this field the reported order times can be linked to the selected Cost element.
External costs	Use this flag to define a project cost element for charging external costs (e.g. accommodation). Therefore, in the task (***See*** task catalog) the operation type "costs" needs to be selected. Then, the Project order is set up accordingly. A cost center can be entered right to it to book the costs there.
External operation flags: Purchase order / Delivery / Invoice	The flags below (purchase, delivery, invoice) determine, which documents are charged to the budget. If more than one document is selected, the documents will be balanced against each other ***Example***: for purchase and for invoice flags are set. From a work order assigned to a project, an external operation is created with a purchase of external service about 1000 EUR. As result, 1000 EUR are charged to the budget. After receiving the payment, the invoice is booked. The invoice amount is not 1000 EUR but 1100 EUR. Then, the budget is charged with another 100 EUR - in sum 1100 EUR.
Issues	If active, a project cost type can be created in which issued material (via work orders) is charged to the budget. If necessary, an account can be defined (next row).
Account	Account for issues of the cost element "issues".
Bitmap	Select a bitmap for the project cost element to be displayed in lists.
Color	Select a color for the project cost element to be displayed in lists.

back to Project cost elements

© 2026 Boyum IT Solutions A/S

3.2.8 Complaint

Beas Manufacturing has its own complaint management feature.

Overview of functions:

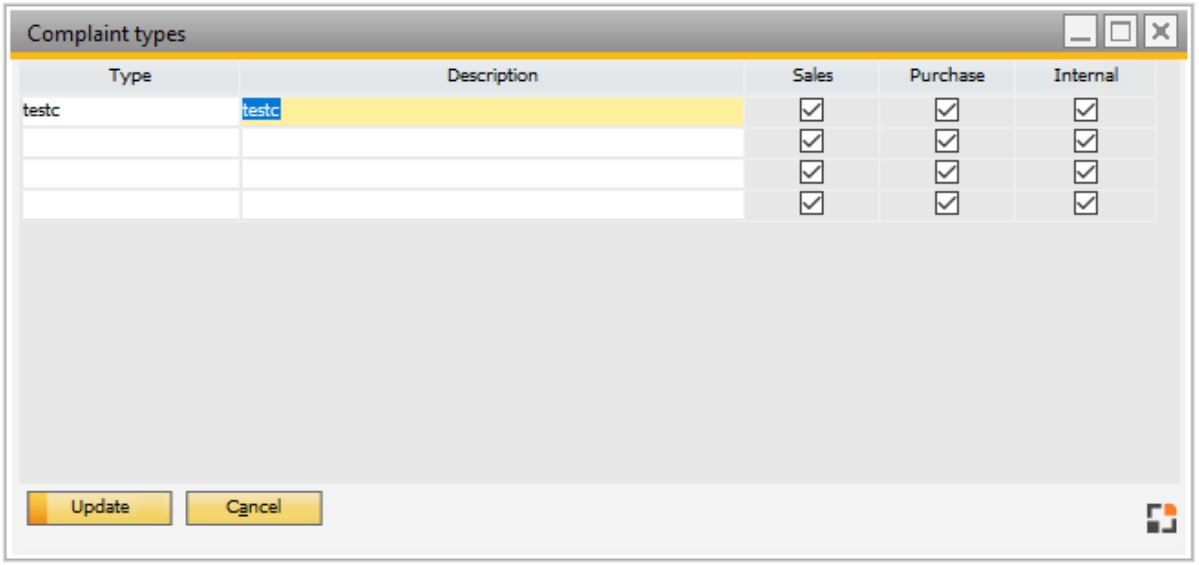
" Recording complaints
" Managing complaints
" Performing an arbitrary evaluation on the basis of recorded data
" Creating arbitrary indicators on the basis of the data
" Suppliers, People and Supplier valuations

General
Financials
Business Partners
Inventory
Precalculation
Production
Project

3.2.8.1 Complaint types

PATH: Administration > Setup > Complaint > Complaint types.

Beas distinguishes between the following types of complaints:



Window reclamation_md_typ.psr

© 2026 Boyum IT Solutions A/S

Field descriptions

Item	Description
Internal complaint	An internal complaint refers to a work order, e.g. for semi-finished goods. This can be generated directly from the work order and is also managed via the work order. **Production > internal Complaint**
Customer complaint	Customer complaints relate to delivery notes. That why the delivery note always has to be indicated. **Sales > Customer complaints**
Supplier complaints	Supplier complaints relate to goods receipt. These are generated from the Beas menu. **Purchase > supplier complaints**

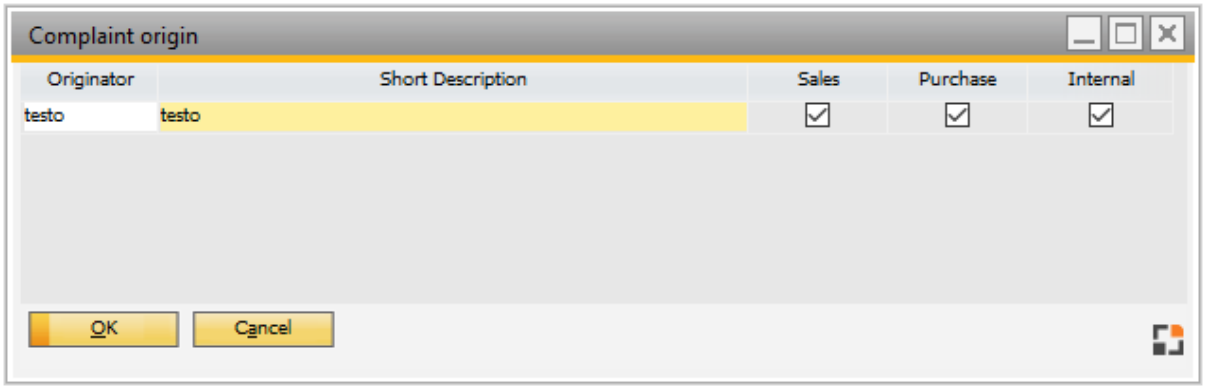
Use the check boxes (Sales/Purchase/Internal), to define the possible assignment.

Add or **Remove** a complaint type from the right-click menu.

3.2.8.2 Complaint origin

You can define the different Originator of complaints. Use the check boxes (Sales / Purchasing / Internal) to classify the complaints.

PATH: Administration > Setup > Complaint > Complaint origin.



Window reclamation_md_causer.psr

Sales → Customer Complaint,

Purchase → Supplier complaint,

Internal → Internal Complaint.

© 2026 Boyum IT Solutions A/S

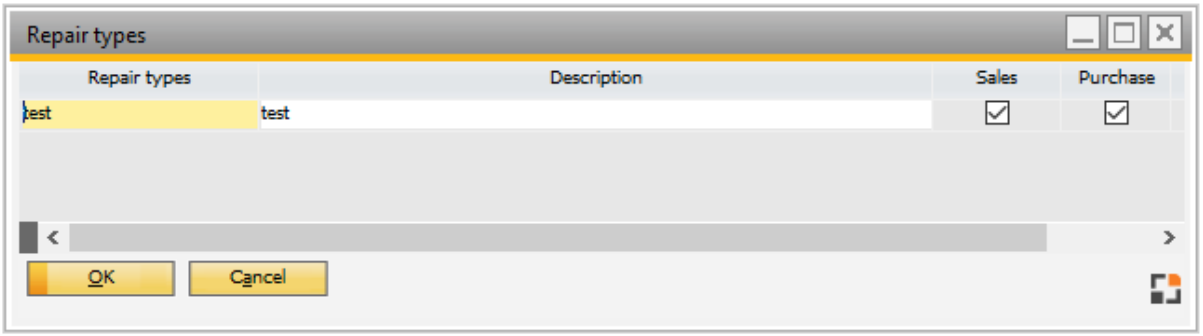
Add or **Remove** a complaint origin with the right-click menu functions.

See also Complaint types

3.2.8.3 Repair types

You can define the different types of repair in Repair Types. Use the check boxes (Sales / Purchasing / Internal) to classify the complaints.

PATH: Administration > Setup > Complaint > Repair types.



Window reclamation_repair_browse.psr

Sales → Customer Complaint,
Purchase → Supplier complaint,
Internal → Internal Complaint.

Add or **Remove** a repair type with the right-click menu functions.

See also Complaint types

3.3 Data Integration Hub

Beas provides an easy-to-use import function for the company data.

PATH: Administration > Data Import/Export > Data Integration Hub.

This function is useful in the following scenarios:

- Importing master data at the setup
- CAD – Integration (e.g. importing BoM directly from the BoM administration).

© 2026 Boyum IT Solutions A/S

- Automatic synchronization with third-party applications using Beas – Service (e.g. PDM).

The following import formats are supported:

- XML.
- Excel (Excel must be installed).
- Text files, CSV in different formats.
- Access to all ODBC-capable files and databases.

The following information can be imported:

- Item, BoM, routing
- Various master data
- Transaction data, like working hours, attendance
- Transactions like receipts, issues

The main flow of the import process is as follows:

1. Determine what to import (e.g. Item master)
2. The import file is selected and analyzed by Beas
3. Fields of the import file are reviewed and can be renamed or hidden
   XML-files: unnecessary XML-structure areas can be hidden
4. Fields of the target and source need to be linked, using the functionality of the Data Integration Hub
5. Preview the result of the mapping
6. Start the import manually or schedule a regular event

An import file can contain multiple sets of information, e.g. item information, BoM and routing. Only one area can be imported with one import definition. In this case, the same file is used for multiple definitions, for example the following items can be defined in the same import file, which is then used for each area:

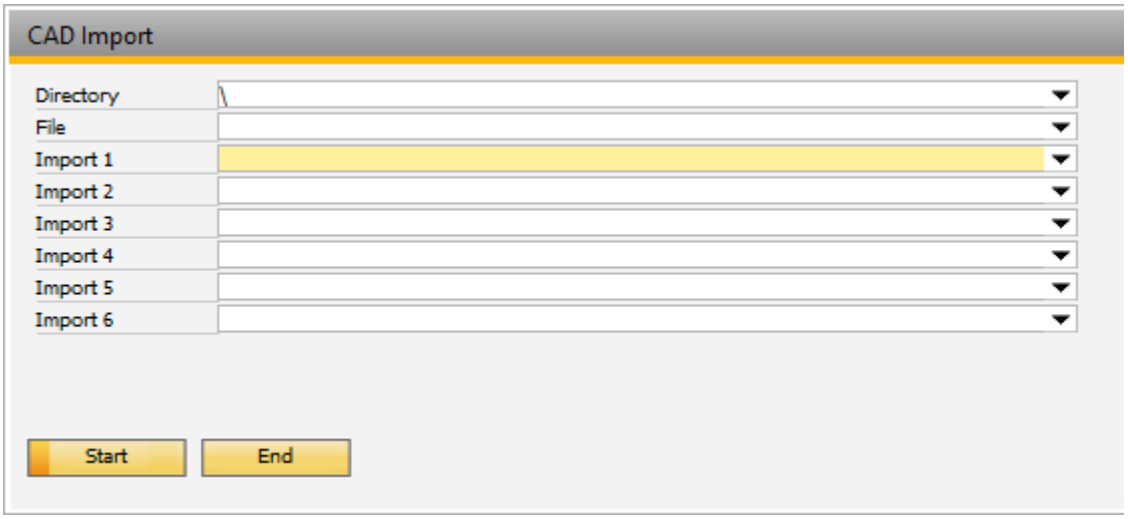
- Item
- Versions
- Files
- BoM
- Routings

For automatic synchronization an import task can be stored in a Beas service. In this case, the specified directory is regularly checked and up to 6 import definitions can be set in this task. The

© 2026 Boyum IT Solutions A/S

definitions are started, reading the file and then moving it to another directory, depending on the settings.

For CAD Integration in the BoM administration a file and up to 6 import-definitions can be selected to import this CAD file:



Window import_ local_ definition.psr

See

YouTube Webinar Concept and using Integration hub 2016/12.

YouTube Webinar Beas Industries 4.0 Data Integration Hub from 2016/4.

Example for Import: Item, BoM, Times. These can be imported directly.

3.3.1 Data integration hub

Import Definition

- File
- Columns
- Extended
- Definition Data Target
- Preview
- Source -Target - Link

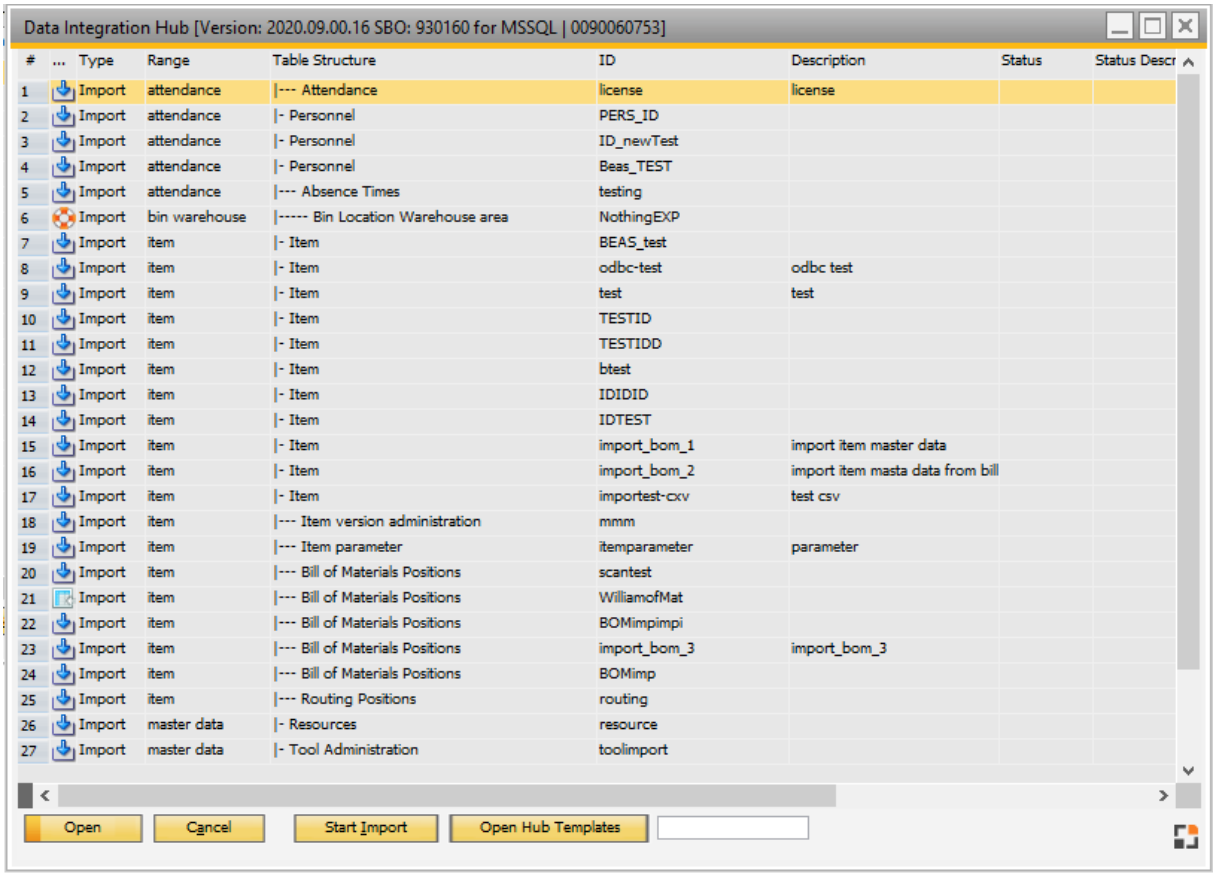
All import definitions are administrated in this list.

PATH: Administration > Data Import/Export > Data Integration Hub.

Window settings, Template and Multiselect are supported. Authorization: Import

© 2026 Boyum IT Solutions A/S

Items are sorted by area, import structure description and ID.



#	...	Type	Range	Table Structure	ID	Description	Status	Status Descr
1		Import	attendance	|--- Attendance	license	license		
2		Import	attendance	|- Personnel	PERS_ID			
3		Import	attendance	|- Personnel	ID_newTest			
4		Import	attendance	|- Personnel	Beas_TEST			
5		Import	attendance	|--- Absence Times	testing			
6		Import	bin warehouse	|----- Bin Location Warehouse area	NothingEXP			
7		Import	item	|- Item	BEAS_test			
8		Import	item	|- Item	odbc-test	odbc test		
9		Import	item	|- Item	test	test		
10		Import	item	|- Item	TESTID			
11		Import	item	|- Item	TESTIDD			
12		Import	item	|- Item	btest			
13		Import	item	|- Item	IDIDID			
14		Import	item	|- Item	IDTEST			
15		Import	item	|- Item	import_bom_1	import item master data		
16		Import	item	|- Item	import_bom_2	import item masta data from bill		
17		Import	item	|- Item	importest-cxv	test csv		
18		Import	item	|--- Item version administration	mmm			
19		Import	item	|--- Item parameter	itemparameter	parameter		
20		Import	item	|--- Bill of Materials Positions	scantest			
21		Import	item	|--- Bill of Materials Positions	WilliamofMat			
22		Import	item	|--- Bill of Materials Positions	BOMimpimpi			
23		Import	item	|--- Bill of Materials Positions	import_bom_3	import_bom_3		
24		Import	item	|--- Bill of Materials Positions	BOMimp			
25		Import	item	|--- Routing Positions	routing			
26		Import	master data	|- Resources	resource			
27		Import	master data	|- Tool Administration	toolimport			

Window importkopf_browse.psr

Column description

Field	Description
... (image)	The icon defined for the definition.
Type	Type of the definition: import, PDM, CAD etc.
Table structure	Target table of the import .
ID	Unique ID for the import definition.
Description	Description of the import definition.
Status	Processing status of the definition.
Status description	Description of the status.
Status %	Completion in % .
Last run	The date of the last import.
Executions	The number of times the import has been executed.
Error	Number of detected errors.

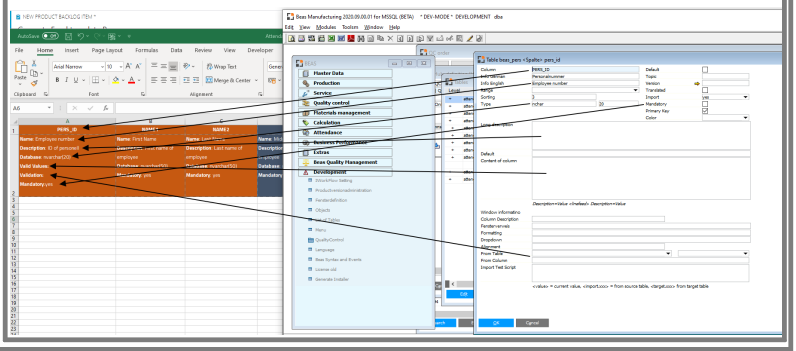
© 2026 Boyum IT Solutions A/S

Further columns to be displayed can be added in window settings.

Functions

Name	Description
Open	Opens the selected entry for editing.
Start Import	Starts the import of the selected row.
Open Hub Templates	Opens the explorer window where DIH Excel templates are stored. By clicking on this button, you can access the folder with Excel templates for each table definition in Beas. For each table you can generate an excel file with all columns marked as Import =yes. The information, then, can be saved in Excel template (.xlts) format in the Beas folder **program\DIH_templates**. **Match the field information stored in the Excel table** The first line in the Excel sheet stores the exact field ID. The second line in the Excel sheet stores the necessary information related to a field - the exact field ID, description, data type and possible values. (***see*** image below) **Orange** fields are mandatory. **Blue** fields are optional. To match the information from the Excel sheet, the system uses the first line containing each field ID. The below image demonstrates how the information from the Excel table matches the target fields of the Beas window. **Note**: Remember to delete the second row of the excel when you prepare the file for import! ***See*** Automatch ***Example:*** Mandatory fields with "Mandatory: YES" in orange: PERS_ID (Employee number)

© 2026 Boyum IT Solutions A/S

	NAME 1 (First name) NAME 2 (Last name) KSTST_ID (Cost center) 
Search field	Add information to filter the Import definition list

Right-click menu options – further functions

Name	Description
Protocol	Opens the error protocol for the current entry. Note: At each renewed import, the protocol is deleted first.
Add	Create a new definition.
Duplicate	Duplicates the current entry.
Remove	Deletes the selected entries. Multi-select is supported.
Planned activities	Opens the Planned activities window, where import operations can be scheduled and automated.
Counter: Reset	Resets the error error counter for the selected entry.
Column definition new load	Reloads the column definition (database description) in the current database. This occurs usually at each program update.
Export Definition	Definition of the selected rows are exported to a file. Multi-select is supported.
Import Definition	Imports definitions that have been exported can be imported. If an ID already exists, it is renamed automatically.

3.3.1.1 Import Definition

PATH: Administration > Data Import/Export > Data Integration Hub > right-click > **Open** or **Add** new Import definition.

File

© 2026 Boyum IT Solutions A/S

Columns

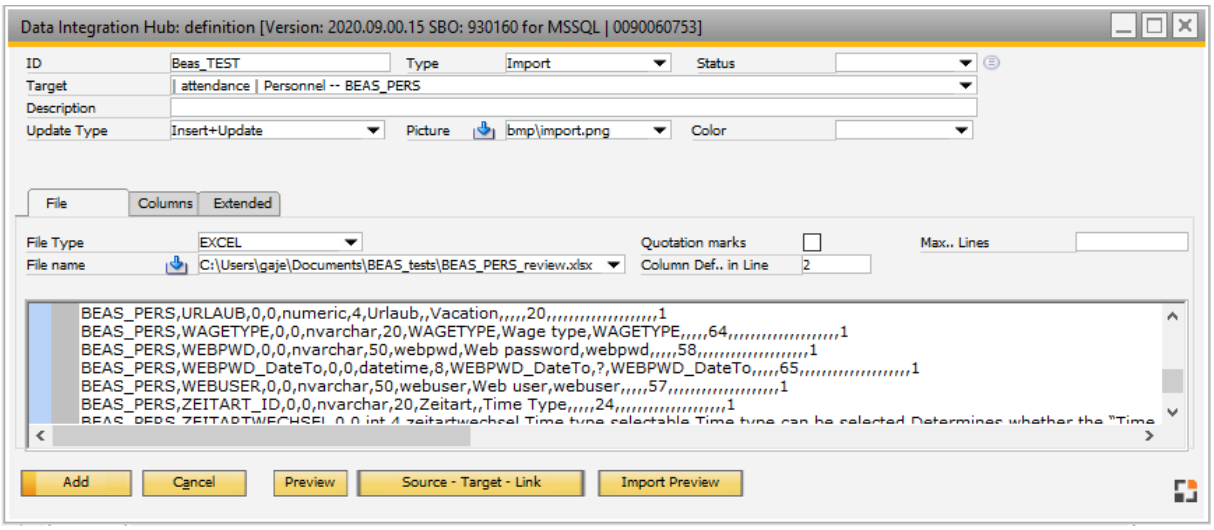
Extended

Definition Data Target

Preview

Source -Target - Link

The details of the import are defined in this window.



Window importkopf_edit.psr

Field	Description
ID	Unique ID of the scenario.
Target	The area or table where the data should be imported. ***See*** Definition Data Target for details.
Description	Short description of the import scenario.
Update type	⊟ Defines update type: import, update, both - Only Insert: Imports the data if the target is not yet available. - Only Update: Imports only if the target is already available. Therefore, ONLY existing data are replaced or updated with the new information, depending on the import area. Non-existent entries are ignored. Insert + Update: Imports new data rows and matches existing data rows. Note:

© 2026 Boyum IT Solutions A/S

	When importing BoM and routing, they are matched as a whole, therefore, single BoM positions cannot be changed. It is possible to delete positions subsequently. The matching is defined in the BoM position or in the routing position. ***See*** BoM position – Synchronize.
Image / Color	The icon and color for the import schema.
Type	Import type This field serves only as information. • Import • PDM Synchronization • CAD Import This field can also accept any text. The entered text affects the sorting in the import list, because it is sorted by type.
Status	Status of the import Import definition Using the icon next to the status field a number of statuses can be defined to describe the status of an import, for example: • Example • Creating • Testing • Released This is for information purposes only. ***See*** Status.

Buttons:

Add: Create the import definition.

Cancel: close this editing window without saving.

Preview

Import Preview

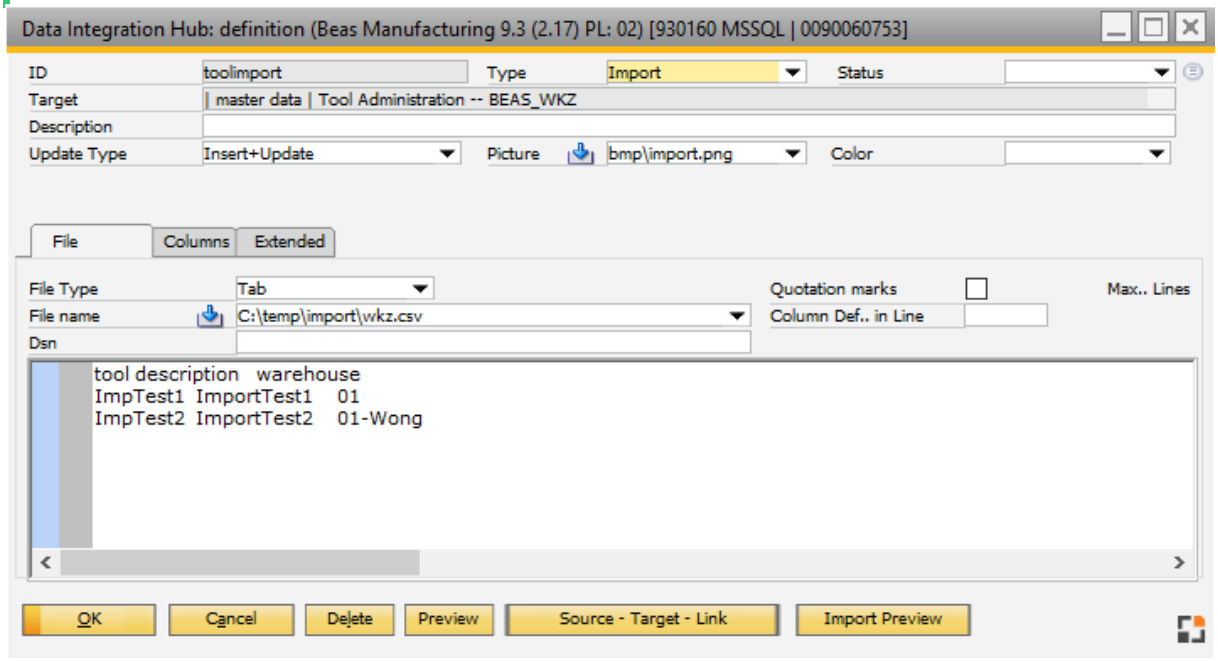
Source - Target - Link

© 2026 Boyum IT Solutions A/S

3.3.1.1.1 File

In the File tab you can define a file or source to be imported.

PATH: Administration > Data Import/Export > Data Integration Hub > **Open** Import definition.



Window importkopf_edit.psr

Field	Description
File type	Determines the data type or the separator in a CSV file • Excel: Imports an excel file. **Note for Excel import:** Microsoft Excel must be installed. **Important Notes for import in service mode:** Importing from Excel in service mode requires a number of correct settings in the windows system. 1. Microsoft Excel must be installed on the computer; it performs the import. 2. The following folders must exist as they are crucial for the operation of Excel when it is to be executed in unattended mode. C:\Windows\System32\config\systemprofile\Desktop C:\Windows\SysWOW64\config\systemprofile\Desktop

© 2026 Boyum IT Solutions A/S

	3. Beas converts the xls? files to CSV internally. Beas needs files with a ";" as separator. The separator for lists can be set in the regional settings of the computer. • ODBC: Imports an OBDC file. An SQL-statement - and optionally - a DSN connection string needs to be provided. • Tab, semicolon, comma: Determines the separator in a CSV file. • Any other separator can also be entered manually. Note: Only Encoding ANSI (Windows-1252) and UTF-8 are supported. ***See*** Description in the File name.
File name	Select the file to be imported Note: To define the import schema, the file must be available and contain all fields. The file name may not begin with "select" or "exec" because this would be interpreted as an SQL statement. In this case the file will automatically be entered as an ODBC type. After selecting the file name, click on the import symbol left of the field to update the file information. **CSV/Excel:** The setup of the file must be identical for all subsequent imports. The name and order may not change. To import excel-files, Microsoft Excel must be installed. **XML:** Configuration is ignored but the following rules apply for import definitions: • All fields that are to be imported must be included. • All fields must be filled with the max. length, because this is used as default for the max. length. In the field definition, the length indication can be changed. • Function attributes can be changed. ***See*** Extended.

© 2026 Boyum IT Solutions A/S

Special characters in format `&#...;` e.g. `Ä` -> Ã are allowed. Special characters in format `&...;` e.g. `€` are not fully supported.

File size:

It is recommended to keep the file as small as possible, because it is always fully read.

It is not possible to import large files > 1 MByte or > 10 000 Lines. It is allowed by the program, but the procedure may take considerable amount of time. In this case it is recommended to split the files in smaller parts.

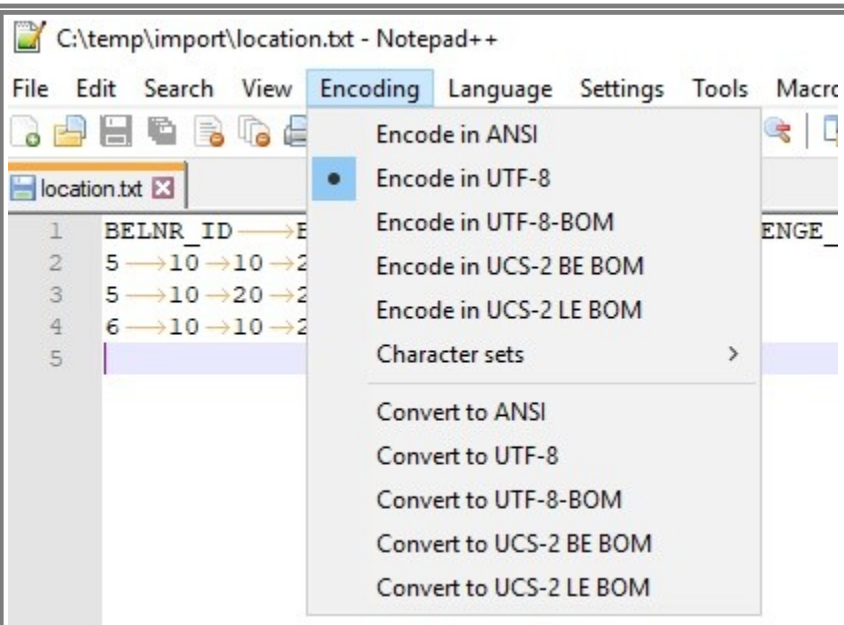
File Encoding:

The System tries to read every File encoding. But only UTF-8 encoding is working completely without problems with all windows regional settings. If you use a different Encoding, converting may not work properly.

How to check the file format:

1. Open the import file with Notepad ++ and click on "Encoding".
2. Check if the point on "Encode in UTF-8". If not, change the export program: File format = UTF-8

© 2026 Boyum IT Solutions A/S



Note: Only Encoding ANSI (Windows-1252) and UTF-8 are supported.

SQL statement	For ODBC: enter SQL-statement Only visible for the ODBC type. For the ODBC file type a SQL-statement can be entered, which is used to filter the imprt. The result of this SQL-statement can be imported. After defining the SQL-statement and the DSN string, click on the import symbol left of the field to update the file information. For further information, ***see*** DSN below. ***Example***: `select top 100 "ItemCode","ItemName" from "OITM" where "ItemName"<>''`
DSN	At ODBC: ODBC-connection string Only visible for the ODBC type. Nothing is required if the SQL-statement occurs on the current, registered database.

© 2026 Boyum IT Solutions A/S

	If an ODBC connection string is entered, a connection is established to the ODBC driver, using the given parameter, and the statement is executed there.
	If it is an MSSQL server, the ODBC driver `beas_sap` can be used.
	
	***Example*:**
	Connection to an MSSQL-database:
	`DSN=beas_sap;server=MyServr;database=MyDataBase;uid=sa;pwd=****`
	
	Connection to a HANA-database:
	`DSN=BEAS_HANA;server=vhana;database=MyDataBase;uid=SYSTEM;pwd=****`

Quotation marks	If active, all elements are displayed in quotation marks
	This option is hidden when XML-files are selected.
	If the elements are in quotes, multi-line text inputs are also possible.
	
	Example:
	`Itemcode;Description`
	`"A001","My Description"`
	`"A002","First Line`
	`Second Line"`
	`"A003","Third Item"`

XML without structure	Option for import of XML-file without structure
	Usually a file is built as follows:
	`<item>`
	`  <itemcode>abc</itemcode>`
	`  <bom>`
	`  <position>10</position>`
	`  <material>def</material>`
	`  </bom>`
	`</item>`
	
	There are also programs where the values are in consecutive order instead of a structure.
	
	`<item>abc</item>`
	`<material><def>/material>`
	`<bom><position>10</position></bom>`

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td>
To import these structureless values, mark the XML without structure checkbox . All imported values of the preceding line are copied to the next line.

Result of the lower table with "as structure":

<table>
<tr><th>item</th><th>material</th><th>position</th></tr>
<tr><td>abc</td><td></td><td></td></tr>
<tr><td></td><td>def</td><td></td></tr>
<tr><td></td><td></td><td>10</td></tr>
</table>

Result of the lower table with "as structure":

<table>
<tr><th>item</th><th>material</th><th>position</th></tr>
<tr><td>abc</td><td></td><td></td></tr>
<tr><td>abc</td><td>def</td><td></td></tr>
<tr><td>abc</td><td>def</td><td>10</td></tr>
</table>

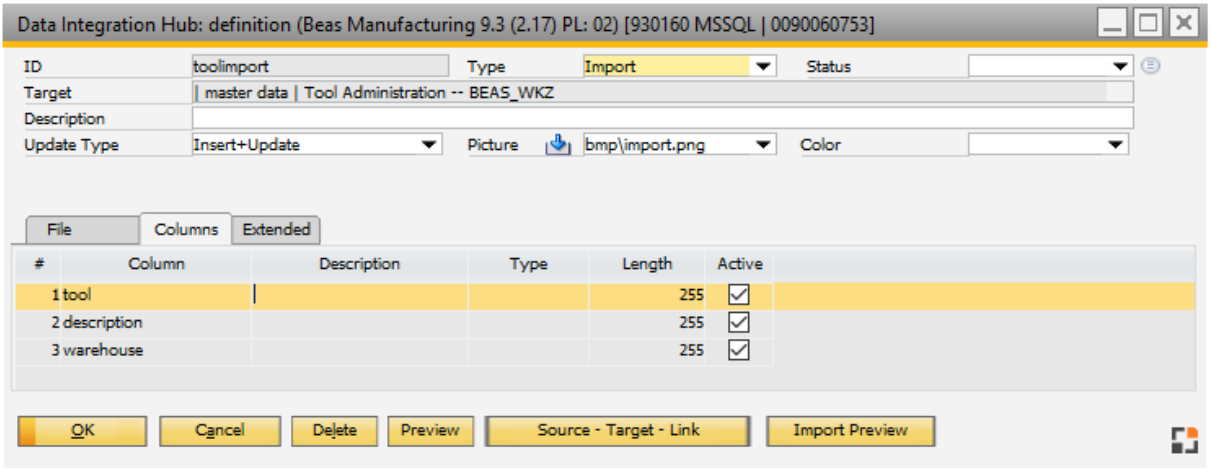
In this manner, you have all relevant information in the third line.
</td></tr>
<tr><td>Column Def.. in line</td><td>Defines the line in which the column definitions are stored in the CSV file.</td></tr>
<tr><td>Max.. lines</td><td>The number of lines to be imported.
Note: The Preview function ignores this setting.</td></tr>
<tr><td>Source</td><td>A part of the selected import file is displayed here. This is only a preview. Changes are ignored.
If you start a preview or import, the system always loads the data from the original file.
An Excel file is displayed in CSV-format.</td></tr>
</table>

3.3.1.1.2 Columns

In this tab the columns found in file to be imported are displayed.

PATH: Administration > Data Import/Export > Data Integration Hub > "**Open**" Import definition.

© 2026 Boyum IT Solutions A/S



Window importkopf_browse.psr

You can change the Names, insert description, Type and Length.
The system overwrites this if you change the File type or File name.

For XML Files you can define these additional attributes in the Extented Tab.

Field descriptions

Field	Description

Column	Name of the column
	For XML-files the XML-structure is stored in the column name, separated with "#".
	Example:
	`<xml>`
	`  <items>`
	`  <itemcode>A001</itemcode>`
	`  </items>`
	`</xml>`
	In this case the column "Itemcode" has the following definition:
	Column: `xml#items#itemcode`
	Length: `4`
	Description: `itemcode`

Description	Editable description of the column.

© 2026 Boyum IT Solutions A/S

	If an exact name is defined, the assignment between the target and source field is easier. This can also be changed in the Preview. The description can be stored in the XML file. ***See*** Extended > XML Attribute-Definition ***Example***: Title=FIELDNAME <itemname FIELDNAME="Description from item">
Type	Column type For XML-files define using the "TYP" attribute (you can define the Name of the attribute in the **Extented tab > Xml Attribute definition** e.g. <itemcode TYP="varchar"> ***See*** Extended > XML Attribute-Definition
Length	Maximum field length. This may be increased, if the determined length is incorrect. For XML-files defined using the "LEN" attribute. e.g. <itemcode LEN="20"> ***See*** Extended > XML Attribute-Definition
Active	Determines if the column should be provided or hidden at target-source linking.

Right-click function:

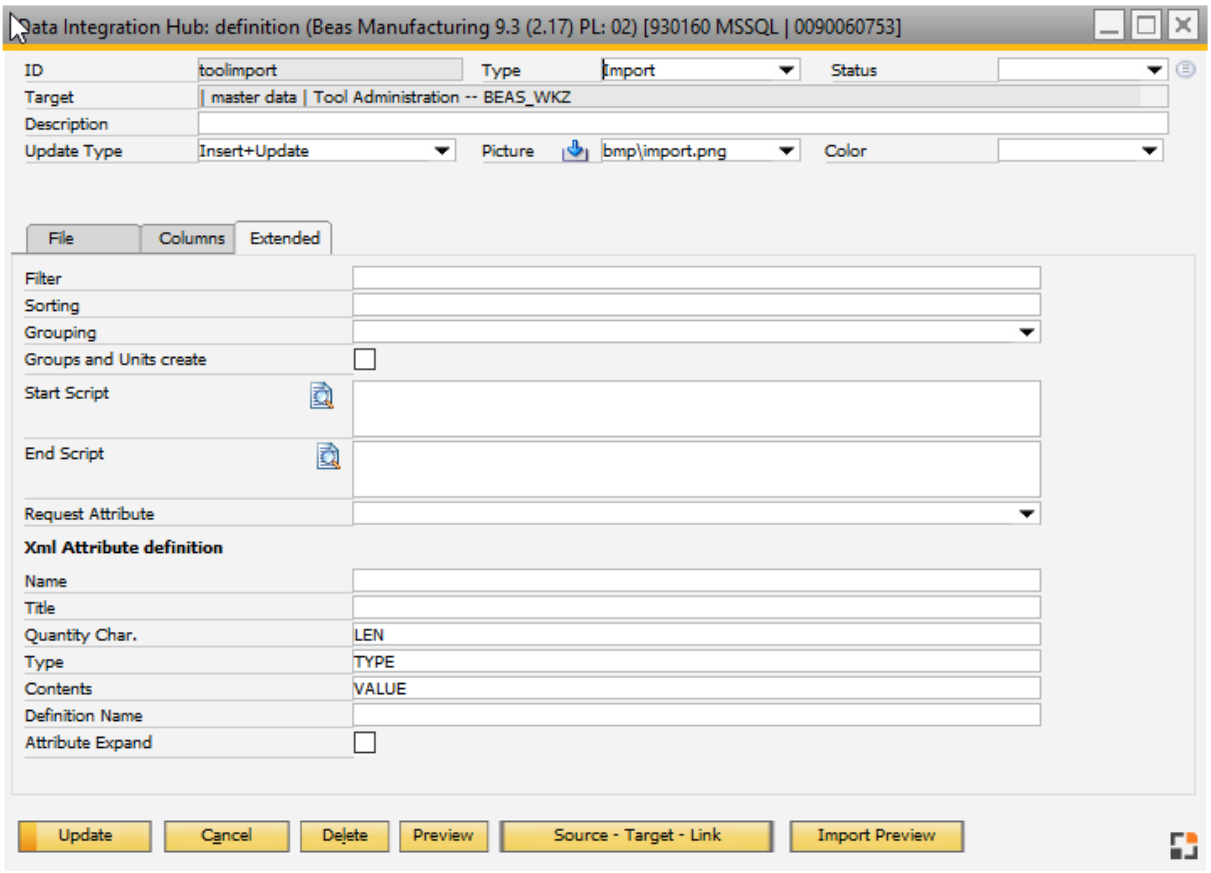
"Set Column description": Select this function for Beas to set a column description automatically with the name of the column.

3.3.1.1.3 Extended

More conditions, sorting and conversions can be defined under the extended information.

PATH: Administration > Data Import/Export > Data Integration Hub > **Open** Import definition.

© 2026 Boyum IT Solutions A/S



Window importkopf_edit.psr

Field descriptions

Field	Description
Filter	The source table can be filtered here, that is, the entries to be imported can be limited this way. In XML-structures, you can define which area of the stored structure is to be imported. ***Example:*** Import only if the item number does not begin with 1 and is not empty. `left(item,1)<>"1" and item<>""` The easiest way to define the filter is using the Preview.
Sorting	The transfer sequence can be defined here. ***Example***: Sorting according to source field "item" ascending: `"item"` ***Example***: Sorting according to source field "item" descending and "nr" ascending: `"item desc, nr asc"` The easiest way to define the sorting is using the Preview.

© 2026 Boyum IT Solutions A/S

Field	Description
Grouping	Select the field by which the rows are grouped All the following rows are hidden that have the same value in this field. Note: This only works if you sort by this field. **Example:** Row;Item 1;A001 2;A001 3;A002 Sorted and grouped by item results: Row;Item 1;A001 3;A002
Groups and Units create	If active, missing entries are created automatically in master data This includes among others: • Item – Item group • Item – Unit of measure • Item – Material group
Start Script	BeasScript is executed before the import Note: The import process does not allow message boxes, prompts or other modal forms, which can block the import process.
End Script	BeasScript is executed after the import
Request Attribute	Definition of a request id A column can be defined, the value of which is stored in the variable `<importrequestid>`. This can be used to create a response file which is returned to a PDM-software. From the import file the first row is determined, in which this column is present. Filters and other restrictions are not considered. Thus, the Request ID can also be located outside the import structure. ***Example:***

© 2026 Boyum IT Solutions A/S

Field	Description
	<request><requestid>1000044422</requestid></request> <item> <itemcode>A001</itemcode> <description name="Assembly 001"/> <bom> <material>C001</material><quantity>5</quantity> </bom> <bom> <material height="5" lengh="10">C002</material><quantity>5</quantity> </bom> </item> In this case the Request Id would be = 1000044422 It can be further processed with <importrequestid>.

XML Attribute definition

In a TAG-field attributes can be defined.
Which meaning divers tags have or in which kind these needs to be considered can be determined here.
A tag has following structure:

```
<tag attribut1="wert" attribut2="wert" />
<tag attribut1='wert' attribut2='wert' />
```

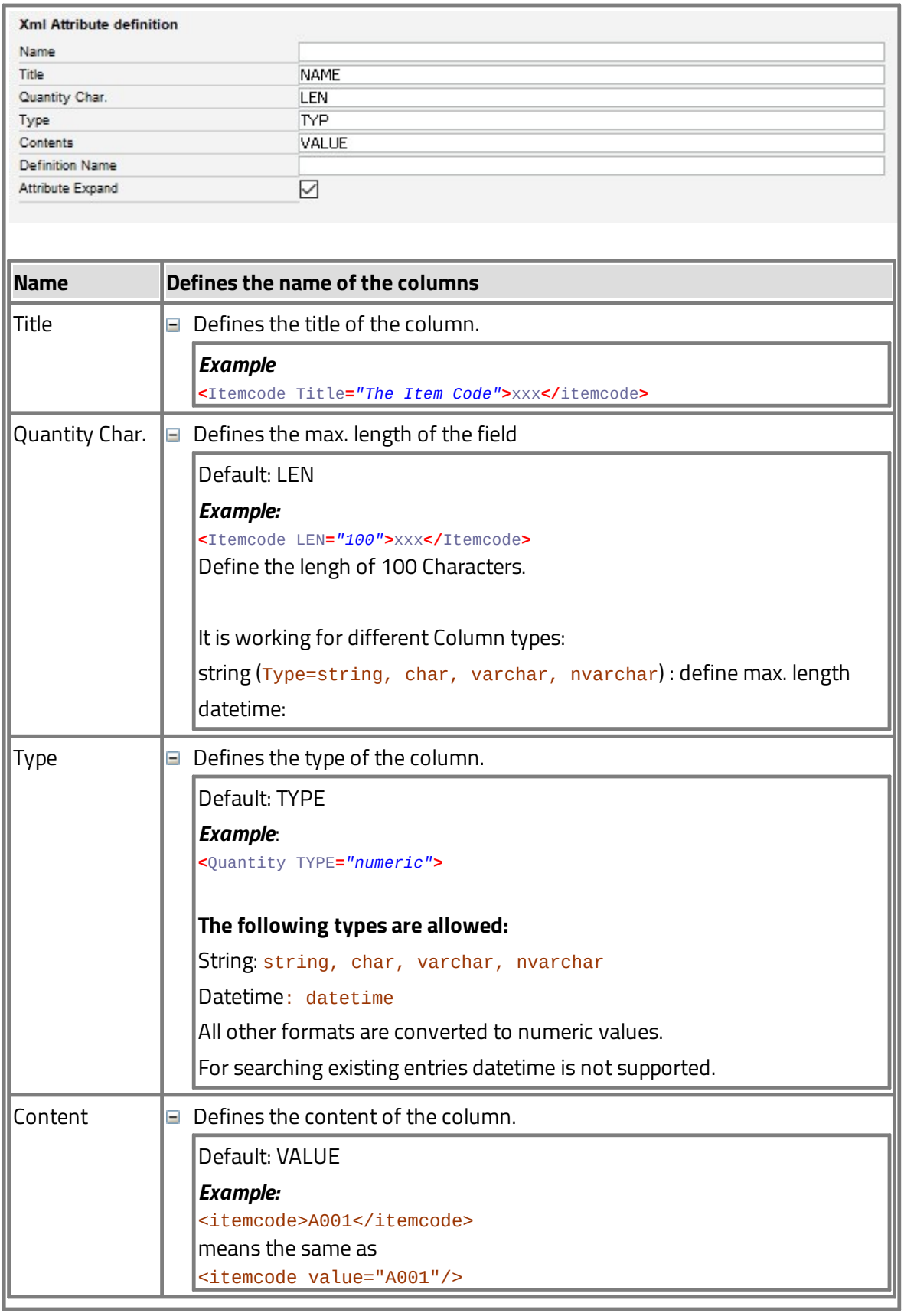
It is important to do blanks and to set quotation marks. There should be no blanks between an attribute and the "=" character.
Quotation marks " or ' are allowed.

A mix of attributes and substructures is allowed.
<item value="A001"><itemname>My Item</itemname></item>

A mix out of substructures and content is not allowed:
Wrong: <item>A001<itemName>MyItem</itemname></item>
Correct: <item value="A001"><itemname>MyItem</itemname></item>
Correct: <item>A001</item><itemname>MyItem</itemname></item>

Functions attribute

© 2026 Boyum IT Solutions A/S



Name	Defines the name of the columns
Title	Defines the title of the column. ***Example*** `<Itemcode Title="The Item Code">xxx</itemcode>`
Quantity Char.	Defines the max. length of the field Default: LEN ***Example:*** `<Itemcode LEN="100">xxx</Itemcode>` Define the lengh of 100 Characters. It is working for different Column types: string (`Type=string, char, varchar, nvarchar`) : define max. length datetime:
Type	Defines the type of the column. Default: TYPE ***Example***: `<Quantity TYPE="numeric">` **The following types are allowed:** String: `string, char, varchar, nvarchar` Datetime`: datetime` All other formats are converted to numeric values. For searching existing entries datetime is not supported.

Content	Defines the content of the column.
	Default: VALUE
	Example:
	`<itemcode>A001</itemcode>`
	means the same as
	`<itemcode value="A001"/>`

© 2026 Boyum IT Solutions A/S

Definition Name	Defines the name of a column. This attribute will be found, and its tag and sub- structure will no longer be noted.
	Some XML files have a special construct.
	
	Part 1: Define Field Name Index, example 0 = Itemcode, 1=Itemname
	Part 2: Define The values, example: 0="A001", 1="The ItemNmae"
	
	Example:
	Name = COL_ID
	Definition Name = NAME
	`<attrib COL_ID="0" NAME="ItemCode"/>`
	`<attrib COL_ID="0">A001</attrib>`
	
	The field "0" gets the name "ItemCode" with the number "A001"

Expand attributes	If active, a database field for the import is created for each attribute. ***Example:*** `<item len=30 value="A001" drawing="Z1" revision="5"/>` **The following structure is created:** item | drawing | revision A001 | Z1 | 5

3.3.1.1.4 Definition Data Target

This chapter comprises of the various areas of import of Definition Data Target.

DIH Attendance
DIH Attendance - Absence
DIH Attendance - Personnel
DIH Factory Data Capture
DIH Item
- DIH Item - BoM Positions
- DIH Item - BoM Header
- DIH Item - BoM Alternative items
- DIH Routing Header

© 2026 Boyum IT Solutions A/S

- DIH Routing positions
- DIH Routing Tool - alternative-parallel resource
- DIH Documents - Item OP catalog
- DIH Item parameter
- DIH Documents Item Version
- DIH Item version Status

DIH Master Data

- DIH Resources
- DIH Operation templates resources
- DIH Operation templates
- DIH Warehouse Bin Location, warehouse area
- DIH Warehouse Bin Location - bin definition
- DIH Business partners
- DIH Tool Administration
- DIH Tool - Bill of Materials
- DIH Raw material

DIH Production

- DIH Work Order
- DIH Production Time Receipt

DIH Quality Control

- DIH QC Inspection plan Header
- DIH QC Inspection plan measurement position
- DIH QC Order results
- DIH Item QC Cross reference

DIH Transactions (Production, Bookings, Manual Posting etc.)

- DIH Material management - transaction plan lines

3.3.1.1.4.1 DIH Attendance

Description	See	Table
Attendance data	Enter attendance time	BEAS_ANWZEIT

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Imports attendance data.

The following details are required:

- Personnel number

© 2026 Boyum IT Solutions A/S

- Start date
- End date

Personnel numbers and start dates are matched during the update.

Attention: It is not possible to link order times with attendance times if the attendance data is imported, because the order times are calculated at the time of the order time receipt and the attendance report is usually not imported at that point.

Field	Name	M	Type	Description
PERS_ID	Employee Number	X	char(0)	
VONDAT	From Date	X	datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
BISDAT	To Date	X	datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
DAUER	Duration		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
BEWERTUNGDAT	Valuation date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not

© 2026 Boyum IT Solutions A/S

				working.
MANUELL	Manuel Entry		char(0)	Please set to J, if this a manual entry. Only for information Valid values: Manual=M No=N
DAUER_MIN	Duration Minutes		decimal(4)	
SCHICHT_ID	Allocated shift		char(0)	
STDRGL_ID	Fix Period rule		char(0)	
BPLId	Branche		long(4)	
KSTST_ID	Cost Center		char(0)	
WAGETYPE	Wage type		char(0)	
INFO	Info		char(0)	
UDF1	User Field 1		char(0)	
UDF2	User Field 2		char(0)	
UDF3	User Field 3		char(0)	
UDF4	User Field 4		char(0)	
GEAENDERT	Changed Entry		char(0)	
ORGINALZEIT	Original Time Info		char(0)	if you change the original time, copy this in this field

3.3.1.1.4.2 DIH Attendance - Absence

Description	See	Table
Absence areas	Edit absence	BEAS_ABWZEIT

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Imports absence areas, like holiday, sick leave, etc.
The primary keys are "Personnel ID" and "from date". It is also possible to update this data.

© 2026 Boyum IT Solutions A/S

The following details are required:

- Personnel ID
- From Date
- To Date
- Absence ID

Field	Name	M	Type	Description
PERS_ID	Personnel Id	X	nchar(20)	
ABWGRND_ID	Reason Id	X	nchar(20)	
VON	From Date	X	datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
BIS	To Date	X	datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
BEZ	Description		nvarchar(30)	
ADDSOLLSTD	Add the time to Plan-/Actual Time		nchar(1)	Valid values: Yes=J No=N
ANWBEACHTUNG	Consider attendance hours		smallint(2)	Valid values: Yes=1 No=0
FREE_OF_WORK	Day off		smallint(2)	Valid values: Yes=1 No=0
IfAvailable	Available		int(4)	Valid values: Yes=1 No=0

© 2026 Boyum IT Solutions A/S

UDF1	User Field f1		nvarchar(50)	
UDF2	User Field f2		nvarchar(50)	
UDF3	User Field f3		nvarchar(50)	
UDF4	User Field f4		nvarchar(50)	
WAGETYPE1	Wage type 1		nvarchar(20)	
WAGETYPE1PC	Wage type 1 %		decimal(9)	
WAGETYPE2	Wage type 2		nvarchar(20)	
WAGETYPE2PC	Wage type 2 %		decimal(9)	
ABWSTD	Absence hour		numeric(4)	
ZEITBEACHTUNG	Check time		nchar(1)	Valid values: Yes=1 No=0

3.3.1.1.4.3 DIH Attendance - Personnel

Description	See	Table
Personnel Data for Beas Personnel	Edit Personnel Master data	BEAS_PERS

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Import Personnel Data for Beas Personnel data.

Synchronize Human Resources -> Employee Master Data:
- If an entry does not exist, the system creates a new one automatically
- if existing, the system updates the following fields: First Name, Last Name, Middle Name, Date of Birth, Start Date, Termination Date.

Field	Name	M	Type	Description
PERS_ID	Employee number	X	nchar(20)	
emplD	Employer ID		int(4)	
NAME1	First Name	X	nvarchar(50)	
NAME3	Middle name		nvarchar(50)	
NAME2	Last Name	X	nvarchar(50)	

© 2026 Boyum IT Solutions A/S

DisplayName	DisplayName		char(0)	
GEBDAT	Date of birth		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
SPR_ID	Language		nchar(4)	
PERSGRP_ID	Personnel group		nchar(20)	
KSTST_ID	Cost Center	X	nchar(20)	
MAART	Job Category		smallint(2)	
STANDORT	Location		nvarchar(20)	
AKTIV	Active		smallint(2)	Valid values: Yes=1 No=0
EINTRDAT	Date of Hire		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
AUSTRDAT	Exit Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
URLAUB	Standard annual holiday		numeric(4)	
SCHICHT1_ID	Default Shift	X	nchar(20)	
STDRGL_ID	Period rule	X	nchar(20)	
ReportName	Evaluation by		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

	report			
CARDNUMBER	Card Number		nvarchar(100)	
MENUGROUP	Access group		nvarchar(20)	
MENUGROUPWEB	Web terminal group		nvarchar(20)	
BPLId	BPLId		int(4)	
BPLName	BPLName		nvarchar(100)	
BPLIds	BPLIds		nvarchar(100)	
KOSTENFAKTOR	Cost Rate on time receipt		decimal(9)	
KOSTENSATZ_VERWENDEN	use own Cost rate		int(4)	
APLATZ_ID	Resource 1	X	nchar(20)	Define, on which resource the user can work. Special characters not allowed. The defined resource must exist.
APLATZ_ID2	Resource 2		nvarchar(20)	Define, on which resource the user can work. Special characters as % and _ are allowed.
APLATZ_ID3	Resource 3		nvarchar(20)	Define, on which resource the user can work. Special characters as % and _ are allowed.
APLATZ_ID4	Resource 4		nvarchar(20)	Define, on which resource the user can work. Special characters as % and _ are allowed.
APLATZ_ID5	Resource 5		nvarchar(20)	Define, on which

© 2026 Boyum IT Solutions A/S

				resource the user can work. Special characters as % and _ are allowed.
APLATZ_ID6	Resource 6		nvarchar(20)	Define, on which resource the user can work. Special characters as % and _ are allowed.
MEHRMASCHINENBEDIENUNG	Machine Grouping		int(4)	If active, the employee can work on multiple machines in parallel (beas_pers.machine grouping) Valid values: Yes=1 No=0
MEHRAUFTRAGSBEDIENUNG	Work Order Grouping		int(4)	If active, the employee can log on to multiple orders at once Valid values: Yes=1 No=0
ALLESANMELDBAR	Allow logon to op. sequ. of all pools		int(4)	if active, the employee can also log on to positions by barcode which are not in the active pool. Only affects Terminal > work order logon. Valid values: Yes=1 No=0
RESSOURCENWECHSEL	Resource selectable		int(4)	Time receipt define, if the

© 2026 Boyum IT Solutions A/S

				emplyee can change the default resource - if current resource is a resource group, then it's always allowed to change - if yes, only resource, which allowed for current user Valid values: No=0 Yes=1 Alternativ Resource=2
KOSTENSTELLENWECHSEL	Cost center selectable		int(4)	Determines whether the "Charge to Cost Center" field is displayed and can be changed for Close Work Order (and only there) Valid values: Yes=1 No=0
ZEITARTWECHSEL	Cost element selectable		int(4)	Determines whether the "Time Type" field is displayed and can be changed for Work order logoff Valid values: yes=1 No=0
ZEITTYP_TR	setting up		int(4)	
ZEITTYP_TE	processing		int(4)	

© 2026 Boyum IT Solutions A/S

ZEITTYP_TN	Rework		int(4)	
ZEITTYP_TH	quality control		int(4)	
INFO	Remarks		nvarchar(0)	
KARTENNR	Card Number		int(4)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
KOSTENSATZ	Cost rate		decimal(9)	
WEBUSER	Weblogin Name		nvarchar(50)	
WEBPWD	Weblogin Password		nvarchar(50)	
WEBPWD_DateTo	Weblogin Valid to		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ANGESTELLTENSTATUS	Status		smallint(2)	
ZEITART_ID	Time Type		nvarchar(20)	

3.3.1.1.4.4 DIH Factory Data Capture

Imports work order times.

This data can only be imported and it is not possible to change existing order time receipts.

The following details are required:

- Work order document number
- Work order position
- Routing number
- Employee
- Start/End
- Time (in minutes)

© 2026 Boyum IT Solutions A/S

Dates have to be indicated in `yyyy/mm/dd` format and time in `hh:mm` format. Example: `2016/05/17 09:00`

Backflushing

The *Disable backflushing* filed is enabled by default. The backflushing process can be deactivated here. To activate, set the filed to *Y*.

Only material and assemblies can be posted, if the data could be identified automatically.

> **Important:**
>
> The time is not set, it must be indicated. All rules stored in the Configuration Wizard are applied.

3.3.1.1.4.5 DIH Item

Description	See	Table
Item	Edit Item master data	OITM

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

DIH Item - BoM Positions
DIH Item - BoM Header
DIH Item - BoM Alternative items
DIH Routing Header
DIH Routing positions
DIH Routing Tool - alternative-parallel resource
DIH Documents - Item OP catalog
DIH Item parameter
DIH Documents Item Version
DIH Item version Status

Import and match items.

When a new item is imported, the "default item" from the Configuration Wizard is used as a reference. As an alternative, it can be set in the "e_sourceitem" variable (to define in conversion script from field "Itemcode") and an alternative default item can be used.

item import procedure:

© 2026 Boyum IT Solutions A/S

1. Define the default item. Fill all fields (unit of measure, planning method, procurement method etc.).
2. Set the default item in the Configuration Wizard.
3. Define and perform import

Note:

Material group, unit of measure and item group can be created automatically, if Extended / Create groups and units was enabled in the import . If the data is incomplete, the data set is not created.

The following fields have extended settings:

All unit of measure fields	In case a unit of measure that does not yet exist in the UoM table, is imported, it is automatically created.
Material group (u_BEAS_GRUPPE)	Material group is automatically created, if it does not exist.
Item group	When, instead of the item group ID, the item group description is indicated, the internal item group ID is determined and used automatically in the description. When the item group is not found, it is automatically created.
Procurement method	If enabled, the scheduling ID is set to *storage-related assembly*, otherwise to it is set to *Purchase item*.
I-Version	If a version number is entered, an item version is created immediately. This is done independent of the Create groups and units settings.
Series	Only for item generation: Define series defined in SAP Document Numbering - Setup. You must define the internal Id (NNM1.Series) If you have only the SersiesName in the import file, you can convert it with follow syntax in source-target defintion: `// search for series name and return the series number`

© 2026 Boyum IT Solutions A/S

	`select "Series" into value from "NNM1" where "SeriesName"='<import.series>' and "ObjectCode"=4`

Import table

Field	Name	M	Type	Description
ItemCode	Itemcode	X	nvarchar(50)	
ItemName	Description		nvarchar(100)	
Series	Serie		int(4)	For number generation you can define the series in system init - Document Numbering - Object "Items" DIH: here you can define the name of series (NNM1.Seriess) as Number If you'Ve only series name, you can use follow script : select "Series" into value from "NNM1" where "SeriesName"='' and "ObjectCode"=4
U_beas_ver	Item Version		nvarchar(20)	Version number of the item editable. If it's defined in Item Version Control, it's not editable and the system is working with Item

© 2026 Boyum IT Solutions A/S

				Version control
FrgnName	Description in foreing language		nvarchar(100)	
ItemType	Item type		char(1)	
ItmsGrpCod	ItemGroup		smallint(2)	
CodeBars	Bar code		nvarchar(254)	
InvntItem	Stock item		char(1)	Valid values: Yes=Y No=N
SellItem	Sell item		char(1)	Valid values: Yes=Y No=N
PrchseItem	Purchase item		char(1)	Valid values: Yes=Y No=N
AssetItem	Fixed assets		char(1)	Valid values: Yes=Y No=N
VATLiable	VAT binding		char(1)	Valid values: Yes=Y No=N
U_match	Match code		nvarchar(50)	
U_din	DIN		nvarchar(50)	
U_znr	Drawing number		nvarchar(50)	
FirmCode	Manufacturer		smallint(2)	Firmcode, Manufacturer Import: You can import with FirmName (Manucturename)

© 2026 Boyum IT Solutions A/S

				or the id from OMRC Attention: You can't update this field! Use this only for create new item entries
SWW	Additional identifier		nvarchar(16)	
U_wst_id	Raw material		nvarchar(20)	
U_sachb_id	Employee		nvarchar(50)	
U_gruppe	Material group		nvarchar(20)	
U_prccode	Cost center		nvarchar(20)	
ValidFrom	Available From		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ValidTo	Available To		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ValidComm	Available Comment		nvarchar(30)	
ValidFor	Active		char(1)	Valid values: Yes=1 No=0
frozenFor	Inactive		char(1)	Valid values: Yes=1

© 2026 Boyum IT Solutions A/S

				No=0
U_dispo	Breakdown		char(0)	
PrcrmntMtd	Production method		char(1)	
U_beas_VerControl	Version Administration		int(4)	Valid values: No=0 extented view=1 separate bom=2
U_me_verbr	Cosumption unit		nvarchar(20)	
U_losgr	Lot size production		numeric(4)	
IssueMthd	Issue method		char(1)	Issue methode of the item Attention: Serial and batch items: You must set this to "M" Valid values: Backflush=B Manuell=M
U_aussch	Cut-Off (%)		numeric(4)	
U_verschn	Verschnittfaktor		nvarchar(20)	
Phantom	Phantom Item		char(1)	Phantom Item Valid values: Yes=Y No=N
U_kzdruck	Withdrawal document		char(1)	
U_sa	Made-to-order		char(1)	
U_bereitst	Allocate		char(1)	
U_beas_prodrelease	Release production		char(1)	
U_brgew	Gross weight		numeric(4)	

© 2026 Boyum IT Solutions A/S

CardCode	Preffered vendor		nvarchar(15)	
SuppCatNum	Mf. Catalog Number		nvarchar(50)	
BuyUnitMsr	Purchasing UoM		nvarchar(100)	
NumInBuy	Items per purchase UoM		numeric(4)	
PurPackMsr	Packaging UoM		nvarchar(30)	
CstGrpCode	Custom group		smallint(2)	
U_zollt	Customs Tariff No		nvarchar(20)	
U_uland	Originating country		nvarchar(3)	
TaxType	Tax group		char(1)	
BLength1	Buy length		numeric(4)	
BWidth1	Buy Width		numeric(4)	
BHeight1	Buy Height		numeric(4)	
BVolume	Buy Volume		numeric(4)	
BWeight1	Buy Weight		numeric(4)	
BLen1Unit	Buy length unit		smallint(2)	
BWdth1Unit	Buy width unit		smallint(2)	
BHght1Unit	Buy height unit		smallint(2)	
BVolUnit	Buy volume unit		smallint(2)	
BWght1Unit	Buy weight unit		smallint(2)	
PurFactor1	Factor 1		numeric(4)	
PurFactor2	Factor 2		numeric(4)	
PurFactor3	Factor 3		numeric(4)	
PurFactor4	Factor 4		numeric(4)	
SalUnitMsr	Sales UoM Name		nvarchar(100)	Unit of Measurement for sales
NumInSale	Items per Sales Unit		numeric(4)	
SalPackMsr	Packaging UoM		nvarchar(30)	

© 2026 Boyum IT Solutions A/S

	Name			
SalPackUn	Quantity per Package UoM		numeric(4)	
SLength1	Sale length		numeric(4)	
SWidth1	Sale width		numeric(4)	
SHeight1	Sale height		numeric(4)	
SVolume	Sale volume		numeric(4)	
SWeight1	Sale Weight		numeric(4)	
SLen1Unit	Sales length unit		smallint(2)	
SWdth1Unit	Sales width unit		smallint(2)	
SHght1Unit	Sales height unit		smallint(2)	
SVolUnit	Sales volume unit		smallint(2)	
SWght1Unit	Sales weight unit		smallint(2)	
SalFactor1	Sales Factor 1		numeric(4)	
SalFactor2	Sales Factor 2		numeric(4)	
SalFactor3	Sales Factor 3		numeric(4)	
SalFactor4	Sales Factor 2		numeric(4)	
GLMethod	Set G/L account by		char(1)	
InvntryUom	Inventory UoM		nvarchar(100)	
DfltWH	Primary Warehouse		nvarchar(8)	
EvalSystem	Valuation Method		char(1)	Define the CostAccounting Method (Evaluation Method) Valid values: Moving Average=A Standard=S FIFO=F

© 2026 Boyum IT Solutions A/S

				Serie | Charge=B =
AvgPrice	Item costs		numeric(4)	
ByWh	Stock management by Warehouse No.		char(1)	Valid values: Yes=Y No=N
ReorderQty	Required (Purchasing UoM)		numeric(4)	
MinLevel	Minimum Inventory		numeric(4)	
MaxLevel	Max. Stock		numeric(4)	
U_batchroh	Batch determination		char(1)	Define automatic batch number / serial number generation can generate the batch automatically for a receipt transaction. Here you can set up whether the batch is entered manually or generated automatically when posing in material. Batch according to material ========== ========== If an assembly is

© 2026 Boyum IT Solutions A/S

				posted in, as batch number is determined that one of the first material in the BOM of the assembly which was last posted in. Example: Assembly: "Paste y in container x" |- Bill of Materials: Paste y |---|- 1. issue batch aaa |---|- 2. issue batch bbb If "Paste y in container x" is now produced and posted in, the batch number of "Paste y" of the last posting, i.e. batch "bbb" is assigned. Automatic batch determination ========== ========== = Batches are generated automatically, at stock correction the next number

© 2026 Boyum IT Solutions A/S

				can be requested. see Batch generation Special case at SAP-posting processes: If the entry field for quantity is left with Ctrl-Tab, the batch assignment screen opens. There is a button "next batch" Clicking there, the next batch number according to SAP - batch determination program is determined and entered to the current field. Batches are always determined automatically. Manual batch input ========== If activated, manual batch input is always performed for this item.

© 2026 Boyum IT Solutions A/S

				Valid values: batchnum is same as last cunsumed material=J automatic batch number generation=N manual batch number=M
U_haltbark	Shelf life in days		numeric(4)	
U_haltbar2	Shelf Life 2 Batch		numeric(4)	
MngMethod	Only at issue		char(1)	
PlaningSys	Planning method		char(1)	Valid values: Keine=N Disposition=M
OrdrMulti	Order multiple		numeric(4)	
MinOrdrQty	Min order quantity		numeric(4)	
LeadTime	Lead time		int(4)	
ToleranDay	tolerance days		int(4)	Tolerance days
UserText	Description User		ntext(8)	
U_text_d	Long description		ntext(8)	
U_text_eng	Foregn language		ntext(8)	
U_beas_kumulierung	MRP Sum grouping		nvarchar(10)	Valid values: Detail= Day=D Week=W Month=M Sum=S

© 2026 Boyum IT Solutions A/S

U_bestellt	Pur. order description		ntext(8)	
U_beas_BinGroup	Warehouse Rule		nvarchar(20)	
Slength2	Sale length 2		numeric(4)	
SHeight2	Sale height 2		numeric(4)	
SHght2Unit	Sales height unit 2		smallint(2)	
SWidth2			numeric(4)	
SWdth2Unit			smallint(2)	
SWeight2			numeric(4)	
SWght2Unit			smallint(2)	
BHght2Unit	Buy height unit 2		smallint(2)	
BWidth2	Buy Width 2		numeric(4)	
VatGourpSa	Sales VAT Group		nvarchar(8)	
Blength2	Buy length 2		numeric(4)	
BWght2Unit	Buy weight unit 2		smallint(2)	
ManSerNum	Stock by serial number		char(1)	activ = Item per serial number. Attention: set issue method to NO Valid values: Yes=Y No=N
frozenFrom	Locked from		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
frozenTo	Locked To		datetime(8)	best date format: yyyy/mm/dd

© 2026 Boyum IT Solutions A/S

				hh:mm in 24 hour format Time format with am/pm not working.
FrozenComm	locked Comment		nvarchar(30)	
UgpEntry	Unit Group Id		int(4)	Unit of measure groups (UoM groups) are groups of one or more units of measure that you either allow as units of measure for a product or exclude from the set of possible UoMs for the product. You can assign UoM groups for the products of both the deliverying and receiving locations. Linked BSL objects: UnitGroup, UnitGroupLines
SUoMEntry	Sales Uom Code		int(4)	
IUomEntry	Inventory Uom Entry		int(4)	
U_kalksche	Calculation schema		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

PicturName	Picture 1		nvarchar(200)	
U_picture3	Picture 3		nvarchar(100)	
VatGroupPu	Purchase VAT Group		nvarchar(8)	
PUoMEntry	Purchase Uom Code		int(4)	
U_kalk_pr	Calculation price		numeric(4)	
U_picture2	Picture 2		nvarchar(100)	
U_spezgew	Spezifisches Weight		numeric(4)	
U_beasprio	Priority		int(4)	
U_beas_shortvariantd	Variant Description		ntext(16000)	
QryGroup1	Property 1		char(1)	Valid values: Yes=Y No=N
QryGroup2	Property 2		char(1)	Valid values: Yes=Y No=N
QryGroup3	Property 3		char(1)	Valid values: Yes=Y No=N
QryGroup4	Property 4		char(1)	Valid values: Yes=Y No=N
QryGroup5	Property 5		char(1)	Valid values: Yes=Y No=N
QryGroup6	Property 6		char(1)	Valid values:

© 2026 Boyum IT Solutions A/S

				Yes=Y No=N
QryGroup7	Property 7		char(1)	Valid values: Yes=Y No=N
QryGroup8	Property 8		char(1)	Valid values: Yes=Y No=N
QryGroup9	Property 9		char(1)	Valid values: Yes=Y No=N
QryGroup10	Property 10		char(1)	Valid values: Yes=Y No=N
QryGroup11	Property 11		char(1)	Valid values: Yes=Y No=N
QryGroup12	Property 12		char(1)	Valid values: Yes=Y No=N
QryGroup13	Property 13		char(1)	Valid values: Yes=Y No=N
QryGroup14	Property 14		char(1)	Valid values: Yes=Y No=N
QryGroup15	Property 15		char(1)	Valid values:

© 2026 Boyum IT Solutions A/S

				Yes=Y No=N
QryGroup16	Property 16		char(1)	Valid values: Yes=Y No=N
QryGroup17	Property 17		char(1)	Valid values: Yes=Y No=N
QryGroup18	Property 18		char(1)	Valid values: Yes=Y No=N
QryGroup19	Property 19		char(1)	Valid values: Yes=Y No=N
QryGroup20	Property 20		char(1)	Valid values: Yes=Y No=N
U_fert_vk	--		numeric(4)	Valid values: Yes=Y No=N
U_mat_gk	--		numeric(4)	Valid values: Yes=Y No=N
QryGroup21	Property 21		char(1)	Valid values: Yes=Y No=N
QryGroup22	Property 22		char(1)	Valid values:

© 2026 Boyum IT Solutions A/S

				Yes=Y No=N
QryGroup23	Property 23		char(1)	Valid values: Yes=Y No=N
QryGroup24	Property 24		char(1)	Valid values: Yes=Y No=N
QryGroup25	Property 25		char(1)	Valid values: Yes=Y No=N
QryGroup26	Property 26		char(1)	Valid values: Yes=Y No=N
QryGroup27	Property 27		char(1)	Valid values: Yes=Y No=N
QryGroup28	Property 28		char(1)	Valid values: Yes=Y No=N
QryGroup29	Property 29		char(1)	Valid values: Yes=Y No=N
QryGroup30	Property 30		char(1)	Valid values: Yes=Y No=N
QryGroup31	Property 31		char(1)	Valid values:

© 2026 Boyum IT Solutions A/S

				Yes=Y No=N
QryGroup32	Property 32		char(1)	Valid values: Yes=Y No=N
QryGroup33	Property 33		char(1)	Valid values: Yes=Y No=N
QryGroup34	Property 34		char(1)	Valid values: Yes=Y No=N
QryGroup35	Property 35		char(1)	Valid values: Yes=Y No=N
QryGroup36	Property 36		char(1)	Valid values: Yes=Y No=N
QryGroup37	Property 37		char(1)	Valid values: Yes=Y No=N
QryGroup38	Property 38		char(1)	Valid values: Yes=Y No=N
QryGroup39	Property 39		char(1)	Valid values: Yes=Y No=N
QryGroup40	Property 40		char(1)	Valid values:

© 2026 Boyum IT Solutions A/S

				Yes=Y No=N
QryGroup41	Property 41		char(1)	Valid values: Yes=Y No=N
QryGroup42	Property 42		char(1)	Valid values: Yes=Y No=N
QryGroup43	Property 43		char(1)	Valid values: Yes=Y No=N
QryGroup44	Property 44		char(1)	Valid values: Yes=Y No=N
QryGroup45	Property 45		char(1)	Valid values: Yes=Y No=N
QryGroup46	Property 46		char(1)	Valid values: Yes=Y No=N
QryGroup47	Property 47		char(1)	Valid values: Yes=Y No=N
QryGroup48	Property 48		char(1)	Valid values: Yes=Y No=N
QryGroup49	Property 49		char(1)	Valid values:

© 2026 Boyum IT Solutions A/S

				Yes=Y No=N
QryGroup50	Property 50		char(1)	Valid values: Yes=Y No=N
QryGroup51	Property 51		char(1)	Valid values: Yes=Y No=N
QryGroup52	Property 52		char(1)	Valid values: Yes=Y No=N
QryGroup53	Property 53		char(1)	Valid values: Yes=Y No=N
QryGroup54	Property 54		char(1)	Valid values: Yes=Y No=N
QryGroup55	Property 55		char(1)	Valid values: Yes=Y No=N
QryGroup56	Property 56		char(1)	Valid values: Yes=Y No=N
QryGroup57	Property 57		char(1)	Valid values: Yes=Y No=N
QryGroup58	Property 58		char(1)	Valid values:

© 2026 Boyum IT Solutions A/S

				Yes=Y No=N
QryGroup59	Property 59		char(1)	Valid values: Yes=Y No=N
QryGroup60	Property 60		char(1)	Valid values: Yes=Y No=N
QryGroup61	Property 61		char(1)	Valid values: Yes=Y No=N
QryGroup62	Property 62		char(1)	Valid values: Yes=Y No=N
QryGroup63	Property 63		char(1)	Valid values: Yes=Y No=N
QryGroup64	Property 64		char(1)	Valid values: Yes=Y No=N
ManBtchNum	Batch management		char(1)	activ = Item per batch number. Attention: set issue method to NO Valid values: Yes=Y No=N

© 2026 Boyum IT Solutions A/S

Description	See	Table
Bill of Materials positions	Edit Bill of materials	BEAS_STL

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

A Bill of materials is always regarded as a whole and can only be imported completely. In case of an update, the BoM is deleted first and re-inserted. It is not possible to update single positions, but synchronization can be done on position level.

An item needs to be defined which is used if the imported position has no valid item number. This is done in the Configuration Wizard.

The correct order for an import is:

- Item
- Routings
- Bill of materials head data
- Bill of materials

A Bill of materials can also be imported directly. Positions numbers are assigned automatically if they are not set manually.

If the material number is not defined, the default item is inserted, and the bill of materials is set to *manually*.
If the stored material number is unknown, the default item is inserted, Bill of materials position is set to manually, and the transferred item number is inserted into the information field.

NOTE: It is not possible to import Input Unit and Input factor for a BoM position.

Field	Name	M	Type	Description
ItemCode		X	nvarchar(50)	Id of bill of material Linked to header of bom (BEAS_STL_HEADER)
POS_ID		X	int(4)	internal position number id (not

© 2026 Boyum IT Solutions A/S

				visible)
ART1_ID			nvarchar(50)	Material number of item linked to OITM.ItemCode Import: If you insert a unknown itemcode, beas move this imtecode in field "userfield" and insert the "unknown itemcode" which you can set in the configuration wizzard
POS_TEXT			nvarchar(20)	
INPUT_QTY		X	numeric(4)	Determines the requirement in entry units per assembly in Input UoM. Usually, the entry unit is the consumption unit of the selected item,
nonSynch			int(4)	Define the synchronisation option Valid values: synchronisation on (import: delete and import new)=0 synchronisation on, but don t

© 2026 Boyum IT Solutions A/S

				delete this line=1 don t synchronisate this position=2
MENGE_JE			decimal(9)	
SortId			int(4)	Define the sorting in the bom list self
Version			nvarchar(20)	
UseOwnDescription			int(4)	if activ, beas use description and drawing number from this position (Field DESCRIPTION and ZNR) if not activ, beas use the description and drawing number from the item or choosed Version number Valid values: yes=1 no=0
DESCRIPTION			nvarchar(255)	Item description about the bom position beas ignore this, if "UseOwnDescription" not 1
AKTIV			nchar(1)	 Valid values: activ=J not activ=N
ZNR			nvarchar(50)	Item drawing number about the bom position beas ignore this, if

© 2026 Boyum IT Solutions A/S

				"UseOwnDescription" not 1
AUSSCHUSS			numeric(4)	Scrap for bom
ROUND_TYPE			int(4)	type of rounding Valid values: no rounding=-1 commercial=0 round up=1 round down=2 multiple of=3
ROUND_DEC			int(4)	
APLANPOS_ID			int(4)	Bom linked to this operation Operation is linked with item without separat bom: same id as the bom item with separat bom: id of routing is in BEAS_STL_HEADER.ROUTINGID Attention: Import don't check the link information.
ABM1			numeric(4)	
ABM2			numeric(4)	
ABM3			numeric(4)	
INFO			nvarchar(50)	
UserText			nvarchar(255)	
GUELTIG_BIS			datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format

© 2026 Boyum IT Solutions A/S

				Time format with am/pm not working.
GUELTIG_VON			datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
VersionFrom			nvarchar(20)	Only activ for Version from ... attention: beas check this alphanumberic Example Versions 1-12 1,10,11,12,2,3,4,5,6,7,8,9
VersionTo			nvarchar(20)	Only activ for Version up to ... attention: beas check this alphanumberic Example Versions 1-12 1,10,11,12,2,3,4,5,6,7,8,9
VersionArea			nvarchar(255)	Activ for Versions, CSV-Format Example: Activ for Version 3,5 and 7 "3","5","7" Attention: if you insert the value in wrong

© 2026 Boyum IT Solutions A/S

				format, beas generate SQL errors.
OnlyReservation			int(4)	Valid values: yes=1 no=0
DontBookScrap			int(4)	if activ, the backflushig process don't book the scrap quantity Valid values: yes=1 no=0
PlaningSysNoSubMaterial			int(4)	Valid values: automatic=0 no=1
BITMAPNAME			nvarchar(50)	
COLORID			int(4)	
RestChargeOff			decimal(9)	
WhsCode			nvarchar(20)	
BINCODE			nvarchar(228)	The bin location must be a valid location for the warehouse selected
ScrapPercent			numeric(4)	
SHORTVARIANTDEF			nvarchar(26)	Variant Definition A-Z, String with JNJNNNNNNNNNNNNNNNNNNNNNNNN J=Activ, N=not Activ First Position=Version A

© 2026 Boyum IT Solutions A/S

				Second Position=Version B and so on Example JNJNNNNNNNNNNNNNNNNNNNNNN = A:Activ, B:not activ, C:Activ Attention: The string need 26 letters. If you insert less then 26 letters, it's not working
SHORTVARIANT			nchar(1)	Define, with which variant the subassembly have to breakdown if empty, then use Variant from parent Value can be empty or A-Z Valid values: A=A B=B C=C D=D E=E F=F G=G H=H I=I J=J K=K L=L M=M N=N O=O

© 2026 Boyum IT Solutions A/S

				P=P Q=Q R=R S=S T=T X=X Y=Y Z=Z
CAFTINFO			nvarchar(2048)	Define all Formulas for the current BoM Position FieldName=F/T/V=Information=VariableTyp=VariableLen=Changeable=Unit=ChoseList=Instructions/Formulas F=Formula T=Table V=Variablename
SCRIPTS			nvarchar(0)	Define beas scripts for define properties in current BoM Changeable left icon from BoM Position
ALTERNATIVMATERIAL			nvarchar(1024)	
EXPANDID			nchar(1)	Breakdown (expandid) Valid values: No=N Always=A Only Shortage=W
UDF1			nvarchar(100)	

© 2026 Boyum IT Solutions A/S

UDF2			nvarchar(100)	
UDF3			nvarchar(100)	
UDF4			nvarchar(100)	
UDF5			nvarchar(100)	
UDF6			nvarchar(100)	
UDF7			nvarchar(100)	
UDF8			nvarchar(100)	
UDF9			nvarchar(100)	
UDF10			nvarchar(100)	
UDF11			nvarchar(100)	
UDF12			nvarchar(100)	
UDF13			nvarchar(100)	
UDF14			nvarchar(100)	
UDF15			nvarchar(100)	
BBD_OPTION			nchar(1)	BBD Option Valid values: Due date=D Pickdate=P Best before date=B

Description	See	Table
Bill of Materials Header	Edit BoM	BEAS_STL_HEADER

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
ItemCode	Bill of materials Id	X	nvarchar(60)	The id of bill of material list It can be the same as the item but can have a own number
DESCRIPTION	Description	X	nvarchar(255)	Description for the bill of material

© 2026 Boyum IT Solutions A/S

				definition
TYP	Type		nvarchar(20)	Valid values: standard=bom
RoutingId	Routing		nvarchar(50)	
AccessGroup	Authorization group		nvarchar(20)	
MatchCode	Match code		nvarchar(50)	
ZNR	Drawing number		nvarchar(50)	
ForItemCode	Linked to Item		nvarchar(50)	Describe, for which item you use this bill of material (linked to OITM)
Release	Release		int(4)	Valid values: yes=1 no=0
ReleaseDate	Release Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ReleasePersName	Release From		nvarchar(50)	
Block	Blocked		int(4)	Valid values: yes=1 no=0
BlockDate	Blocked Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
BlockName	Blocked Name		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

BlockReason	Blocked Reason		nvarchar(50)	
BITMAPNAME	Bitmap		nvarchar(50)	
COLORID	Color		int(4)	
Remarks	Remark		nvarchar(255)	
ReleaseStationId	Release on Work station		nvarchar(20)	
RevisionLevel	Revision Nummmer		nvarchar(30)	
Version	Version		nvarchar(20)	Version field is not visible in the program
Status	Status		nvarchar(20)	Status field is not visible in the program
CanModify			int(4)	
UDF1	Userfield 1		nvarchar(50)	
UDF2	Userfield 2		nvarchar(50)	
UDF3	Userfield 3		nvarchar(50)	
UDF4	Userfield 4		nvarchar(50)	
UDF5	Userfield 5		nvarchar(100)	
UDF6	Userfield 6		nvarchar(100)	
UDF7	Userfield 7		nvarchar(100)	
UDF8	Userfield 8		nvarchar(100)	
UDF9	Userfield 9		nvarchar(100)	
UDF10	Userfield 10		nvarchar(100)	
UDF11	Userfield 11		nvarchar(100)	
UDF12	Userfield 12		nvarchar(100)	
UDF13	Userfield 13		nvarchar(100)	
UDF14	Userfield 14		nvarchar(100)	
UDF15	Userfield 15		nvarchar(100)	

© 2026 Boyum IT Solutions A/S

Description	See	Table
Bill of Materials - Alternative items	Edit BoM positions and Alternative items	BEAS_STL_ALTERNATIV

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
ItemCode	Bom Id	X	nvarchar(50)	
POS_ID	Bom internal position number	X	integer(0)	
ALTERNATIV	alternativ item number	X	nvarchar(50)	
Quantity	Quantity	X	decimal(9)	
INFO	Information		nvarchar(50)	

Description	See	Table
Routing Header	Edit Routing header	BEAS_APL_HEADER

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
ItemCode	Routing ID	X	nvarchar(60)	
ForItemCode	Linked with Item		nvarchar(50)	Linked to Items. It's only for information
DESCRIPTION	Description	X	nvarchar(255)	
MatchCode	Match code		nvarchar(50)	
TYP	Routing Type		nvarchar(20)	Type of routing. Current only "bom" allowed Valid values: bill of material=bom
CanModify	Allow changes		int(4)	
Release	Release		int(4)	

© 2026 Boyum IT Solutions A/S

Block	Blocked		int(4)	
ReleaseDate	Release Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ReleasePersName	Release From		nvarchar(50)	
BlockDate	Blocked Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
BlockName	Blocked Name		nvarchar(50)	
BlockReason	Blockage reason		nvarchar(50)	
BITMAPNAME	Picture		nvarchar(50)	
COLORID	Color		int(4)	
Remarks	Information		nvarchar(255)	Long description for this routing plan
RevisionLevel	Revision Nummmer		nvarchar(30)	
UDF1	Userfield 1		nvarchar(50)	
UDF2	Userfield 2		nvarchar(50)	
UDF3	Userfield 3		nvarchar(50)	
UDF4	Userfield 4		nvarchar(50)	
UDF5	Userfield 5		nvarchar(50)	
UDF6	Userfield 6		nvarchar(50)	
UDF7	Userfield 7		nvarchar(50)	
UDF8	Userfield 8		nvarchar(50)	
UDF9	Userfield 9		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

UDF10	Userfield 10		nvarchar(50)	
UDF11	Userfield 11		nvarchar(50)	
UDF12	Userfield 12		nvarchar(50)	
UDF13	Userfield 13		nvarchar(50)	
UDF14	Userfield 14		nvarchar(50)	

Enter topic text here.

Description	See	Table
Routing position	Edit Routing position	BEAS_APL

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

The standard operation type needs to be defined. Resources must be created. You can work with operation sequence catalog numbers. In this case, all default values are accepted.
Resource allocation type import is supported. *Beas 2021.11*
A routing can only be imported or replaced completely. Single routing positions cannot be replaced.

Important:

When working with parallel resources, the input of the internal position number is necessary for linking.

Field	Name	M	Type	Description
ItemCode	Item	X	nvarchar(50)	
AGTYP	Operation Type	X	nvarchar(20)	
AG_ID	Operation catalog number	X	nchar(20)	Reference to operation catalog number
POS_TEXT	Routing Position	X	nvarchar(20)	
POS_ID	internal Position	X	int(4)	
SortId	Sorting		int(4)	
APLATZ_ID	Resource	X	nchar(20)	
BDE	Labour Postings Mandatory		nchar(1)	Valid values: Yes=J No=N

© 2026 Boyum IT Solutions A/S

BEZ	Description		ntext(8)	Description about the work
TRAPLATZ	Setup time Calculation		numeric(4)	
TR2APLATZ	Setup time Capacity		numeric(4)	
TEAPLATZ	Mach+Labor Time duration /unit		numeric(4)	
THAPLATZ	Machine Time duration / unit		numeric(4)	
TNAPLATZ	Labor Time duration / unit		numeric(4)	
TRTIMETYPE_ID	Cost Element setting up		nvarchar(20)	
TIMETYPE_ID	Time Type Duration		nvarchar(20)	
THTIMETYPE_ID	Cost Element Machine Time / unit		nvarchar(20)	
TNTIMETYPE_ID	Cost Element Secondary time		nvarchar(20)	
PTIMETYPE_ID	labor costs Time Type		nvarchar(20)	
MENGE_JE	Times in per Quantity		decimal(9)	
MENGE_ZEITJE	Times per Hr. or. Minute		int(4)	Valid values: Stunde=60 Minute=1 -=-
MEHRMASCHINEN BELEGUNG	Resource Allocation Type		nchar(1)	Ressource allocation possible? Here you can define the type

© 2026 Boyum IT Solutions A/S

				of quantity defintion Valid values: Single=N Percent=P Quantity=J
MEHRMASCHINEN BELEGUNG_ANZ	Resource Allocation Quantity		decimal(9)	Define max. quantity of Resources which you can use for the respurce In field "Resource allocation Type" you define, if this number is percent or quantity
NUTZEN	Use factor		decimal(9)	
ANZAHL	Work Steps		decimal(9)	
TL	Idle Time in Hours		numeric(4)	
UEBLGRZ	Overlap Limit		numeric(4)	Overlap limit to next routing position
AUSSCHUSSFAKTOR	Scrap Factor		numeric(4)	
QS_ID	Inspection Plan (QC)		nvarchar(50)	
ANZLS	Number of Pay Slips		numeric(4)	
GUELTIG_VON	Valid from		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
GUELTIG_BIS	Valid to		datetime(8)	best date format:

© 2026 Boyum IT Solutions A/S

				yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
VersionFrom	Valid From Version		nvarchar(20)	
VersionTo	Valid To Version		nvarchar(20)	
VersionArea	Valid for Version		nvarchar(255)	
RM_ME_ID	Goods Receipt in Unit		nvarchar(20)	
RM_FAKTOR	Factor per unit of warehouse		numeric(4)	
MASTER_POS_ID	linked with Routing position		int(4)	
BITMAPNAME	Picture		nvarchar(50)	
COLORID	Color		int(4)	
nonSynch	Synchronization		int(4)	At import or inserting a routing position, the routing is always deleted completely and re-imported. Use the settings to manipulate the behavior on routing position level yes: Position will be deleted before the import do not delete: Position will not be deleted, but can be overwritten no: Position will

© 2026 Boyum IT Solutions A/S

				not be deleted and cannot be changed Valid values: Yes=0 Don not delete=1 No=2
MILESTONE	Milestone		nvarchar(20)	
KSTST_ID	Cost Center		nchar(20)	
BILD1	Picture 1		nvarchar(100)	
BILD2	Picture 2		nvarchar(100)	
BILD3	Picture 3		nvarchar(100)	
MENGENAUSSCHUSS	Scrap Factor Bill of Materials		numeric(4)	
ANWEISUNGEN	instructions		ntext(8)	
SHORTVARIANTDEF	Variantendefinition A-Z		nvarchar(26)	Variant Definition A-Z, String with JNJNNNNNNNNNNNNNNNNNNNNNN J=Activ, N=not Activ First Position=Version A Second Position=Version B and so on Example JNJNNNNNNNNNNNNNNNNNNNNNN = A:Activ, B:not activ, C:Activ Attention: The string need 26 letters. If you insert less then 26

© 2026 Boyum IT Solutions A/S

				letters, it's not working
CardCode	Supplier		nvarchar(30)	
FAG	External operation		nchar(1)	Valid values: external=J internal=N
FAG_ITEMCODE	External operation Item		nvarchar(50)	linked to an "non stock item" you need this, if this an external operation
FAG_PRICE	External operation Price		decimal(9)	
FAG_PRICEJE	External operation Price per		decimal(9)	
FAG_CURRENCY	External operation Currency		nvarchar(6)	
FAG_MINPRICE	External operation Minimum price		decimal(9)	
FAG_TRANSPORTPRICE	External operation Shipping price		decimal(9)	
PO_WHS	Return address from warehouse		nvarchar(20)	The warehouse to send the purchase for external operation Here you can define the warehouse for purchase order
FAG_TRANSPORTPRICEA	External operation Shipment Lot Size		int(4)	
Flags	Additional flags		nvarchar(100)	Additional Flags, 6 Digits, Example/Default: 000000

© 2026 Boyum IT Solutions A/S

				Pos 1: in Precalculation unvisible: 1=unvisible, 0=visible Pos 2: visible in Workorder: 1=unvisible, 0=visible Pos 3: lock time receipt: 1=lock, 0=unlock Pos 4: check plan quantity: 0=off, 1=on Pos 5: post calculation visible: 1=unvisible, 0=visible Pos 6: resourcen optimization: 0=on, 1=off
AKTIVFORMEL	Activ Formel		nvarchar(100)	Define, if this position is active Quantity > x: G=x Quantity < x: K=x Quantity between X and y: Z=x=y not active=N active=J
SCRIPTS	Script Variant		ntext(8)	Define beas scripts for define properties in current Routing Position Changeable left

© 2026 Boyum IT Solutions A/S

				icon from Routing Position
CAFTINFO	Formula definition Variant		nvarchar(2048)	Define all Formulas for the current Routing Position FieldName=F/T/V= Information=VariableTyp=VariableLen=Changeable=Unit=ChoseList=Instructions/Formulas F=Formula T=Table V=Variablename
ZEITAUFNKZ	Date Record Property		nvarchar(20)	
ZEITAUFNDAT	Date Time Recording		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
UDF5	Userfield 5		nvarchar(100)	
UDF6	Userfield 6		nvarchar(100)	
UDF7	Userfield 7		nvarchar(100)	
UDF8	Userfield 8		nvarchar(100)	
UDF9	Userfield 9		nvarchar(100)	
UDF10	Userfield 10		nvarchar(100)	
UDF11	Userfield 11		nvarchar(100)	

© 2026 Boyum IT Solutions A/S

UDF12	Userfield 12		nvarchar(100)	
UDF13	Userfield 13		nvarchar(100)	
UDF14	Userfield 14		nvarchar(100)	
UDF15	Userfield 15		nvarchar(100)	

Description	See	Table
Routing Tool - alternative/parallel resource	Alternative material	BEAS_APL_WKZ

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
ItemCode	Routing ID	X	nvarchar(50)	
POS_ID	Routing position (ID)	X	int(4)	Link to internal position number from routing position (BEAS_APL.POS_ID)
WKZPOS_ID	Resource Position Number	X	int(4)	Position number for this resource position Must be unique for all resource types (toosl, alternativ, parallel)
RESOURCENTYP	Resource typ (Tool/Resource)	X	nchar(1)	Valid values: Tool=W Parallel resource=A Alternativ resource=R
POS2_ID	Position Number (visible)	X	int(4)	
WKZ_ID	Resouce / Tool Id	X	nchar(20)	Id of the resource

© 2026 Boyum IT Solutions A/S

				if resource type = W then link to BEAS_WKZ.WKZ_ID for all other link to resource BEAS_APLATZ.APLATZ_ID
ZUSATZINFO	Additional Information		nvarchar(255)	
TR	Setup time		decimal(9)	
TE	Mach+Labor Time/unit		decimal(9)	
MENGE_JE	Quantity per Finished Item		decimal(9)	
MENGE_ZEITJE	Time by		int(4)	
ANTEIL	Time reservation %		decimal(9)	only parallel resources: If no setup and edit time was entered, the time of the main operation * time reservation is used as reference. At which % shall the resource be scheduled? Example: The parallel resource is an employee operating four machines at once. He need to be available for the machine at the whole time but only at 25%.

© 2026 Boyum IT Solutions A/S

				If the setup time or processing time is entered, in pre-calculation this input will be ignored. See note above at Setup time.
IgnoreOwnResourcePrice	Cost not valuate		int(4)	Valid values: yes=1 no=0
ANZAHL	quantity		decimal(9)	AnzahlFaktor
NUTZEN	Use		decimal(9)	
AKTIV	Active		int(4)	Valid values: yes=1 no=0
MENGE	Quantity Warehouse unit		int(4)	Only for tools: Needed quantity in warehouse unit of the tool
ALTERNATIV	alternative Parallel Resource		int(4)	Valid values: yes=1 no=0
TIMETYPE_ID	Time Type		nvarchar(20)	
LIEGEZEIT	Idle time		int(4)	
ALLOW_MANUAL_CHANGE	Allow manual change		int(4)	only alternative resource: This alternative resource can only be selected manually, if this option has been enabled. The event will be canceled and receipted with the error message

© 2026 Boyum IT Solutions A/S

				"(aktivaplatz440) Resource cannot be selected when flag "allow manual change" is off" if this option has been disabled and an attempt has been made to select the resource. Note: A change is only possible if a change has been allowed according to the production position (Production position - Allow change has to be allowed). Valid values: Yes=1 No=0
OPTIMIZED_ID	Activate Optimization		int(4)	only for alternative resources: If active, at the calculation the lead time will be checked, whether with this resource a faster processing is possible and if yes, the resource will be replaced automatically Valid values: yes=1 No=0
UDF1	Userfield 1		nvarchar(100)	

© 2026 Boyum IT Solutions A/S

UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
UDF5	Userfield 5		nvarchar(50)	
UDF6	Userfield 6		nvarchar(50)	
UDF7	Userfield 7		nvarchar(50)	
UDF8	Userfield 8		nvarchar(50)	
UDF9	Userfield 9		nvarchar(50)	
UDF10	Userfield 10		nvarchar(50)	
UDF11	Userfield 11		nvarchar(50)	
UDF12	Userfield 12		nvarchar(50)	
UDF13	Userfield 13		nvarchar(50)	
UDF14	Userfield 14		nvarchar(50)	
UDF15	Userfield 15		nvarchar(50)	

Description	See	Table
Documents - Item Operation catalog	Edit Operation catalog	BEAS_DOKUMENT

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
TYP	Object	X	nchar(20)	Type of document object Valid values: item=ARTIKEL operation catalog=AG
KENNUNG	Object Id	X	nchar(30)	
NR	unique number	X	int(4)	Unique Number Import: if you set 0 then next number

© 2026 Boyum IT Solutions A/S

INFO	Info		nvarchar(50)	
VERWEIS	cross reference on Dokument	X	nvarchar(200)	A file link (or internet link) with folder name

Description	See	Table
Item parameter	item parameter	BEAS_OITM_PARAMETER

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
ItemCode	Item	X	nvarchar(50)	
Parameter	Parameter	X	nchar(30)	
INHALT	Contents		ntext(8)	
SortId	SortId		int(4)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	

Description	See	Table
Attached documents from item version	Item master Data - Item Version - Documents	BEAS_DOCUMENTS

NOTE:

In this table documents for different sources are saved.
For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Settings for import Item Version documents:

Column	Type	Link
Link Type	Default	itemversion
Reference 1	From table	item code
Reference 2	From table	item version

© 2026 Boyum IT Solutions A/S

Column	Type	Link
Reference 3	No	
LineId	No / FromTable	Line Number. Defined only if you want to update a line. If 0, the system creates a new line. Note: If the user deletes a document in the program, the system does not delete the entry, but marks it as invisible. If you update the line, you must disable the invisible flag (invisible=0)

Note:
You must save the link of the original file name.
The file must be in a shared folder.

The system does not create a copy of the file if you import the data - it only provides a link to the file.

For more information ***see*** Detailed documentation.

Field	Name	M	Type	Description
TYP	Link Type	X	nvarchar(20)	define the linked object Valid values: link to item Version=itemversion
ValueId	Reference 1	X	nvarchar(50)	Define the object Itemversion: the ItemCode number, linked to BEAS_ITEM_VERS

© 2026 Boyum IT Solutions A/S

				ION
Value2Id	Reference 2	X	nvarchar(20)	Define the object Itemversion: the A-Version number, linked to BEAS_ITEM_VERSION
Value3Id	Reference 3	X	nvarchar(20)	
LINEID	Line ID	X	int(4)	Line Id. Import: If 0 then next row
DESCRIPTION	Description	X	nvarchar(200)	
SortId	Sorting		int(4)	
BITMAPNAME	Icon		nvarchar(50)	
COLORID	Color		int(4)	
ViewVariant	View Type		int(4)	Describe the type of view Valid values: Shell=0 Text=1 Bitmap Viewer=2 Script=3
DocumentTyp	Document Type		nvarchar(1)	Describe the type of document Link to a file = A Show text, which you can save in this document table: text Valid values: Datei=A Text=Text
FileNameInternal	File Name (real)		nvarchar(200)	beas create a copy of the file name

© 2026 Boyum IT Solutions A/S

				In this field you see the name of the copied file. Import: Save the name in this field. The document must be in the attachment folder
FileName	File Name (orginal)	X	nvarchar(200)	This is the original file name, not real file name The file name self saved in FileNameInternal
QcReleased	Plan Release		int(4)	Valid values: yes=1 no=0
QcReleasedFromUser	Release by User ID		int(4)	
QcReleasedFromUserName	Release by User Name		nvarchar(50)	
QcReleasedDate	Release Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
FilePath	File Directory		nvarchar(200)	
UDF1	Userfield 1		nvarchar(50)	
UDF2	Userfield 2		nvarchar(50)	
UDF3	Userfield 3		nvarchar(50)	
UDF4	Userfield 4		nvarchar(50)	
Category	Category		nvarchar(20)	
QcVersion	Version		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

Description	See	Table
Item version administration status	Edit Item version status	ITEM_VERSION_STATUS

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
Status	Status Id	X	nvarchar(20)	
DESCRIPTION	Description		nvarchar(255)	
Deleted	Entry deleted / blocked		int(4)	
Release	Release		int(4)	Valid values: yes=1 No=0 do not change=2
Block	Locked		int(4)	Valid values: Yes=1 No=0 do not change=2
BITMAPNAME	Picture		nvarchar(50)	
COLORID	Color		int(4)	
CanSaleOrder	Sales order		int(4)	Valid values: Yes=1 No=0
CanDeliver	Delivery note		int(4)	Valid values: Yes=1 No=0
CanSaleInvoice	Sales Invoice		int(4)	Valid values: Yes=1 No=0
CanPurchaseOrder	PO Order can be created		int(4)	Valid values: Yes=1 No=0

© 2026 Boyum IT Solutions A/S

CanGRPO	Purchase delivery note		int(4)	Define, if a Goods Receipt PO can be created Valid values: Yes=1 No=0
CanPurchaseInvoice	Purchase Invoice		int(4)	Describe, if a PO Invoice can be created Valid values: Yes=1 No=0
CanModify	Change allow		int(4)	If this option is deactivated, the stored routing cannot be changed. But the fields in the item version are still changeable. Valid values: Yes=1 No=0
CanCreateWo	Work order can be created		int(4)	A work order can only be created for this item version if this option is active. Note: If the status is blocked the work order is created but blocked if it is a sub-item. The work order is also be blocked if it is created in an automatic process (via integration hub).

© 2026 Boyum IT Solutions A/S

				The blocking can be avoided by using Production types eg. for a sample production. Valid values: Yes=1 No=0
CanReservationWo	Reservation for Wo		int(4)	Valid values: Yes=1 No=0
CanIssueWo	Issue for wo can be created		int(4)	Defines whether the item version is to be considered in material planning. If a work order has already been created, this option affects the same option in the work order position. See Update Status. Yes / No / None change are selectable. Valid values: Yes=1 No=0 None Chagen=2
STARTDISPOSITION	Material planning		int(4)	Related to work order setting "Disposition" Defines whether the item version is to be considered in material planning. If a work order has already been created, this option affects the same

© 2026 Boyum IT Solutions A/S

				option in the work order position. See Update Status. Yes / No / None change are selectable None change means: The status don't change the setting in the work order Valid values: Yes=1 No=0 do not change=2
STARTTIMEREQUEST	Login to workorder		int(4)	Defines whether order time receipts may be created for this item version. This option affects the same option in the work order position. See Update Status. Valid values: Yes=1 No=0 do not change=2
STARTBOOKING	Work order material posting		int(4)	Defines whether material postings may be created for this item version. This option affects the same option in the work order position. Valid values: Yes=1 No=0

© 2026 Boyum IT Solutions A/S

				do not change=2
STARTCAPACITYPLANUNG	Capacity planining		int(4)	Defines whether the item version is to be considered in capacity planning (APS). This option affects the same option in the work order position Valid values: Yes=1 No=0 do not change=2
Confirmed	Work order approved		int(4)	Defines whether for this item version the work order position may be approved. This option affects the same option in the work order position Valid values: Yes=1 No=0 do not change=2
CanModifyWo	Work order change allowed		int(4)	Defines whether for this item version, changes may be executed in the work order. This option affects the same option in the work order position. Valid values: Yes=1 No=0 do not change=2
ChangeOpenWorkorders	Status update		int(4)	

© 2026 Boyum IT Solutions A/S

UDF1	Userfield 1		nvarchar(50)	
UDF2	Userfield 2		nvarchar(50)	
UDF3	Userfield 3		nvarchar(50)	
UDF4	Userfield 4		nvarchar(50)	

3.3.1.1.4.6 DIH Master Data

Imports Master data definitions.

DIH Resources
DIH Operation templates resources
DIH Operation templates
DIH Warehouse Bin Location, warehouse area
DIH Warehouse Bin Location - bin definition
DIH Business partners
DIH Tool Administration
DIH Tool - Bill of Materials
DIH Raw material

Description	See	Table
Resource master data	Edit Resource	BEAS_ABPLATZ

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
APLATZ_ID	Resource	X	nchar(20)	Resouce id
GRUPPE	Group		nvarchar(30)	
BEZ	Description	X	nvarchar(255)	
RESOURCETYPE	Type of resource		nchar(20)	
STANDORT	Location		nvarchar(30)	
BPLName	Branch		nvarchar(200)	
AUSWAERTSBEARBEITUNG	Service / registrer costs		nchar(1)	Valid values: Yes=J No=N
SACHB_ID	Employee planner		nvarchar(25)	

© 2026 Boyum IT Solutions A/S

KAPAPLANUNG	Capacity planning		int(4)	
POOLGRENZE	Pool limit in hrs.		int(4)	
UEBERGANGSZEIT	Transit time in days		numeric(4)	
ZEITGRAD	Efficiency Rate %		numeric(4)	
SINGLEUSER	Single operation per operation sequence		int(4)	If enabled, to the operation sequence, to which the resource has been assigned to, only one employee may logon. That means several orders may be registered to that resource, but per operation sequence only one employee may be working. Valid values: Yes=1 No=0
MEHRAUFTRAGSBEDIENUNG	Work order grouping		nchar(1)	Determines, whether several operations may be processed at once on that resource several orders can be processed at once on on that resource Enabled Multiple orders can be processed in parallel on this resource.

© 2026 Boyum IT Solutions A/S

				The option is activated by default. This is only considered in the new FDC > Open Work Order or in Pool list with multiple selection. Disabled If an order was already registered on a machine (Resource), a second one can not be registered. In the logon screen on resource selection page a sign "no entry" is displayed. Valid values: Yes=J No=N
SAME_STARTENDTIME	same date for start and finish		int(4)	
Active	Active		nchar(1)	
not_divide_time	Do not split time receipt		int(4)	
APSVIEW	View in APS		int(4)	 Valid values: Yes=1 No=0
KAPACHECKLIMIT	Consider resource limits		nchar(1)	While capacity planing for this resource: Notice resource limiting for this resource?

© 2026 Boyum IT Solutions A/S

				Valid values: Yes=J No=N
OPTIMIZED_ID	Automatic optimization		int(4)	
SOLLKAPSTDTAG	Planned Capacity hrs./day		numeric(4)	
ANZMASCHPERS	Number of Machine / person		numeric(4)	
LAYERPLAN	Shift schedule		nvarchar(20)	
TETIMETYPE_ID	Cost Element Mach+Labor Time/unit		nvarchar(20)	
VOLLKSTBED	Full Cost		numeric(4)	
GKBED	Marginal Cost		numeric(4)	
KSTST_ID	Cost Center		nchar(20)	
VOLLKSTEINR	Full Cost Einrichter		numeric(4)	
GKEINR	Marginal Cost Einrichter		numeric(4)	
BILD1	Picture 1		nvarchar(100)	
BILD2	Picture 2		nvarchar(100)	
BILD3	Picture 3		nvarchar(100)	
COSTEXTENTED	Expand to costelements		int(4)	Define count of cost elements, which you want using for this resource Valid values: 1 cost element=0 2 cost elements=1 3 cost elements=2 4 cost elements=3
TRTIMETYPE_ID	Cost Element setting up		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

TRVK	Cost of setup Full Cost		numeric(4)	
TRGK	Cost of setup Marginal Cost		numeric(4)	
TNVK	Cost Secondary time Full Cost		numeric(4)	
TNGK	Cost Secondary time Marginal Cost		numeric(4)	
TNTIMETYPE_ID	Cost Element Secondary time		nvarchar(20)	
THVK	Cost Machine Time / unit Full Cost		numeric(4)	
THGK	Cost Machine Time / unit Marginal Cost		numeric(4)	
THTIMETYPE_ID	Cost Element Machine Time / unit		nvarchar(20)	
PCOSTAKTIV	Labor costs Active		int(4)	if activ, you can set personal costs Valid values: yes=1 No=0
PCOSTGK	Labor costs Marginal Cost		numeric(4)	
PCOSTVK	Labor costs Full Cost		numeric(4)	
PTIMETYPE_ID	Labor costs Time Type		nvarchar(20)	
GRUPPENPLATZ	Resource group		nchar(1)	If this resource a group definition, then this field is Yes (J) otherwise No (N or NULL) Valid values: Yes=J No=N

© 2026 Boyum IT Solutions A/S

COLOR_ID	Color		int(4)	
BITMAP_ID	Picture		nvarchar(50)	
BPLId	Branch		int(4)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
UDF5	Userfield 5		nvarchar(100)	
UDF6	Userfield 6		nvarchar(100)	
UDF7	Userfield 7		nvarchar(100)	
UDF8	Userfield 8		nvarchar(100)	
UDF9	Userfield 9		nvarchar(100)	
UDF10	Userfield 10		nvarchar(100)	
UDF11	Userfield 11		nvarchar(100)	
UDF12	Userfield 12		nvarchar(100)	
UDF13	Userfield 13		nvarchar(100)	
UDF14	Userfield 14		nvarchar(100)	
UDF15	Userfield 15		nvarchar(100)	
LOSGR_MIN	Lot Size Minimal		decimal(9)	
LOSGR_MAX	Lot Size Maximum		decimal(9)	

Description	See	Table
Operation templates for resources	Tool, Utilities, Parallel and Alternative	BEAS_AG_WKZ

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
AG_ID	Operation	X	nchar(20)	
WKZPOS_ID	Internal Position	X	int(4)	
POS_ID	position number		int(4)	

© 2026 Boyum IT Solutions A/S

	visible			
RESOURCENTYP	Resourcentyp	X	nchar(1)	Type of Resource Valid values: Tools/Utils=W parallel=A alternativ=R
WKZ_ID	Resource Id	X	nchar(20)	This is the resource or tool id linked with BEAS_APLATZ.APLATZ_ID or BEAS_WKZ.WKZ_ID
TR	set-up time		decimal(9)	
TE	Mach+Labor Time/unit		decimal(9)	
MENGE_JE	Quantity per		decimal(9)	
MENGE_ZEITJE	Times Unit		int(4)	Valid values: per hour=60 per minute=1
ZUSATZINFO	Additional Information		nvarchar(255)	
NUTZEN	Use Factor		decimal(9)	
ANTEIL	Time Reservation (%)		decimal(9)	If no setup and edit time was entered, the time of the main operation * time reservation is used as reference. At which % shall the resource be scheduled? Example: The parallel resource is an employee

© 2026 Boyum IT Solutions A/S

				operating four machines at once. He need to be available for the machine at the whole time but only at 25%. If the setup time or processing time is entered, in pre-calculation this input will be ignored. See note above at Setup time.
AKTIV	Active		int(4)	only for tools. Valid values: activ=1 not activ=0
ANZAHL	Number Factor		decimal(9)	
MENGE	Quantity Tools		int(4)	
ALTERNATIV	alternative Parallel Resource		int(4)	
IgnoreOwnResourcePrice	Cost not valuate		int(4)	only parallel resource: If enabled, the resource costs of this parallel resource are ignored. Affected: pre-calculation and post-calculation. Costs created with time receipts are not

© 2026 Boyum IT Solutions A/S

				taken into account as well. Use this option, if you included the costs already with your main resource. Default: disabled. Valid values: allow=1 do not allow=0
ALLOW_MANUAL_CHANGE	Allow manual selection		int(4)	only alternative resource: This alternative resource can only be selected manually, if this option has been enabled. The event will be canceled and receipted with the error message "(aktivaplatz440) Resource cannot be selected when flag "allow manual change" is off" if this option has been disabled and an attempt has been made to select the resource. Note: A change is only possible if a change has been allowed according to the production

© 2026 Boyum IT Solutions A/S

				position (Production position - Allow change has to be allowed). Valid values: yes=1 no=0
OPTIMIZED_ID	Activate Optimization		int(4)	only alternative resource: If active, at the calculation the lead time will be checked, whether with this resource a faster processing is possible and if yes, the resource will be replaced automatically Valid values: yes=1 no=0
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
UDF5	Userfield 5		nvarchar(50)	
UDF6	Userfield 6		nvarchar(50)	
UDF7	Userfield 7		nvarchar(50)	
UDF8	Userfield 8		nvarchar(50)	
UDF10	Userfield 10		nvarchar(50)	
UDF9	Userfield 9		nvarchar(50)	
UDF11	Userfield 11		nvarchar(50)	
UDF12	Userfield 12		nvarchar(50)	
UDF13	Userfield 13		nvarchar(50)	
UDF14	Userfield 14		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

UDF15	Userfield 15		nvarchar(50)	

Description	See	Table
Operation templates	Routing - General edit	BEAS_AG

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
AG_ID	Operation ID	X	nchar(20)	
MatchCode	Match code		nvarchar(20)	
AGTYP	Operation type		nvarchar(20)	
APLATZ_ID	Resource		nchar(20)	
BDE	Clock mandatory		nchar(1)	Valid values: Yes=J No=N
BEZ	Description	X	ntext(8)	
TRAPLATZ	Setup time for precalculation		numeric(4)	
TR2APLATZ	Setup time capacity		numeric(4)	
TEAPLATZ	Mach+Labor Time/unit		numeric(4)	
TIMETYPE_ID	Time Type		nvarchar(20)	
MENGE_JE	Quantity per time		decimal(9)	
MENGE_ZEITJE	Time unit		int(4)	Valid values: Minute=1 Hours=60
NUTZEN	Use factor		decimal(9)	
ANZAHL	Work steps		decimal(9)	
TL	Idle time		numeric(4)	

© 2026 Boyum IT Solutions A/S

UEBLGRZ	Overlap limit		numeric(4)	
AUSSCHUSSFAKTOR	Scrap factor		numeric(4)	
QS_ID	QC inspection plan		nvarchar(50)	
ANZLS	Number of pay slips		numeric(4)	
RM_ME_ID	Confirm in units		nvarchar(20)	
RM_FAKTOR	Factor per production UoM		numeric(4)	
LOHNGRUPPE	Wage Group		nchar(2)	
MENGENAUSSCHUSS	Scrap Factor Bill of Materials		numeric(4)	
ANWEISUNGEN	instructions		ntext(8)	
FAG	External operation		nchar(1)	Valid values: Yes=J No=N
CardCode	Supplier		nvarchar(30)	
FAG_ITEMCODE	External operation		nvarchar(50)	
FAG_PRICE	External operation Price		decimal(9)	
FAG_PRICEJE	External operation Price per		decimal(9)	
FAG_CURRENCY	External operation Currency		nvarchar(6)	
FAG_MINPRICE	External operation Minimum price		decimal(9)	
FAG_TRANSPORTPRICE	External operation Shipping price		decimal(9)	
FAG_TRANSPORTPRICEA	External operation Shipment Lot Size		int(4)	
SCRIPTS	Scripts		ntext(8)	
THAPLATZ	Machine Time / unit		numeric(4)	
TRTIMETYPE_ID	Cost type tool time		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

THTIMETYPE_ID	Cost type main time		nvarchar(20)	
TNAPLATZ	Labor Time / unit		numeric(4)	
TNTIMETYPE_ID	Cost type second time		nvarchar(20)	
PTIMETYPE_ID	Personell time type		nvarchar(20)	
MILESTONE	Milestone		nvarchar(20)	
Flags	Additional Flags		nvarchar(100)	Additional Flags, 6 Digits, Example/Default: 000000 Pos 1: in Precalculation unvisible: 1=unvisible, 0=visible Pos 2: visible in Workorder: 1=unvisible, 0=visible Pos 3: lock time receipt: 1=lock, 0=unlock Pos 4: check plan quantity: 0=off, 1=on Pos 5: post calculation visible: 1=unvisible, 0=visible Pos 6: resourcen optimization: 0=on, 1=off
AKTIVFORMEL	Active formula		nvarchar(100)	
FORMEL	Formula		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

PO_WHS	Return address from warehouse		nvarchar(20)	
BILD1	Anhang 1		nvarchar(100)	
BILD2	Anhang 2		nvarchar(100)	
BILD3	Anhang 3		nvarchar(100)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
UDF5	Userfield 5		nvarchar(100)	
UDF6	Userfield 6		nvarchar(100)	
UDF7	Userfield 7		nvarchar(100)	
UDF8	Userfield 8		nvarchar(100)	
UDF9	Userfield 9		nvarchar(100)	
UDF10	Userfield 10		nvarchar(100)	
UDF11	Userfield 11		nvarchar(100)	
UDF12	Userfield 12		nvarchar(100)	
UDF13	Userfield 13		nvarchar(100)	
UDF14	Userfield 14		nvarchar(100)	
UDF15	Userfield 15		nvarchar(100)	

Description	See	Table
Warehouse bin location, warehouse area	Edit Warehouse area, bin location	BEAS_WHSAREA

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
WhsCode	Warehouse code	X	nchar(8)	
AREACODE	Warehouse area	X	nchar(20)	
INFO	Info		nvarchar(255)	
REMOVELOCKED	Block withdraw		nchar(1)	

© 2026 Boyum IT Solutions A/S

				Valid values: Yes=J No=N
STORAGELOCKED	Block storage		nchar(1)	Valid values: Yes=J No=N
MANUELBINCREATE	Create automatically		nchar(1)	Valid values: Yes=J No=N
TYP	Type		nchar(1)	
DIMENSIONCOUNT	Number Dimensions		int(4)	
DIMENSION1TEXT	Property for dimension 1		nvarchar(20)	
DIMENSION2TEXT	Property for dimension 2		nvarchar(20)	
DIMENSION3TEXT	Property for dimension 3		nvarchar(20)	
DIMENSION4TEXT	Property for dimension 4		nvarchar(20)	
MAX_VOLUME_IN_DM3	Max. volume in dm		decimal(9)	
MAX_WEIGHT_IN_KG	Max. weight in kg		decimal(9)	
VISUALISATION	Visualization Item		nchar(1)	
POS_X_IN_M	Position from lower left in M (X)		numeric(4)	
POS_Y_IN_M	Position from lower left in M (Y)		numeric(4)	
BINMASK	Bin code mask		nvarchar(40)	
LENGTH_IN_M	Length in m		numeric(4)	
WIDTH_IN_M	Width in m		numeric(4)	
HEIGHT_IN_M	Height in m		numeric(4)	
AREACOLOR	Color for Area		int(4)	
BINCOLOR	Color for Bin		int(4)	

© 2026 Boyum IT Solutions A/S

	Location			
STORAGESORTMASK	create Mask Sort Receipt		nvarchar(40)	
REMOVESORTMASK	create Mask Sort Issue		nvarchar(40)	
VISUALENDSCRIPT	Visualization Script		ntext(8)	
UDF1	Userfield 1		nvarchar(50)	
UDF2	Userfield 2		nvarchar(50)	
UDF3	Userfield 3		nvarchar(50)	
UDF4	Userfield 4		nvarchar(50)	

Description	See	Table
Warehouse bin location definition	Edit bin location definition	BEAS_WHSBIN

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
WhsCode	Warehouse code	X	nchar(8)	Linked to this warehouse
AREACODE	Area code	X	nchar(20)	
BINCODE	Bin Location	X	nchar(20)	Unique key for the bin
INFO	Info		nvarchar(255)	
DIMENSION1	Dimension 1		nvarchar(20)	
DIMENSION2	Dimension 2		nvarchar(20)	
DIMENSION3	Dimension 3		nvarchar(20)	
DIMENSION4	Dimension 4		nvarchar(20)	
LENGTH_IN_M	Length in m		numeric(4)	
HEIGHT_IN_M	Height in m		numeric(4)	
WIDTH_IN_M	Width in m		numeric(4)	
REMOVELOCKED	Block withdraw		nchar(1)	Valid values: Yes=J

© 2026 Boyum IT Solutions A/S

				No=N
STORAGELOCKED	Block storage		nchar(1)	Valid values: Yes=J No=N
REMOVESORT	Withdrawal sorting		nchar(20)	
STORAGESORT	Storage sorting		nchar(20)	
BINWEIGHT	Max. Wieight in Kg.		numeric(4)	
BINVOLUME	Ma. Volume in dm3		numeric(4)	
Color	Color		int(4)	
POS_X_IN_M	Position X in m - Viewed from lower left		numeric(4)	
POS_Y_IN_M	Position Y in m - Viewed from lower left		numeric(4)	
POS_LENGTH_IN_M	View Length in m		numeric(4)	
POS_HEIGHT_IN_M	View Height in m		numeric(4)	
COLORRULE	color rule		int(4)	Valid values: Weight in % ..50 green, ,,80 yello, 81... red=1 green:empty, red:on stock=0
DELETEFLAG	Deleted		nchar(1)	Entry marked as deleted Valid values: No=N Yes=J
UDF1	Userfield 1		nvarchar(50)	
UDF2	Userfield 2		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

UDF3	Userfield 3		nvarchar(50)	
UDF4	Userfield 4		nvarchar(50)	

Import of the business partner master data, contact person billing address and delivery address.

DIH Business partner
DIH Ship To and Bill To addresses list
DIH Contact information of employees

Description	See	Table
Business partner	SAP Documentation	OCRD

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
CardCode	Card Code	X	nvarchar(15)	
CardType	Card Type		char(1)	
CardName	Name		nvarchar(100)	
CardFName	Foreign name		nvarchar(100)	
GroupCode	Group		smallint(2)	
Currency	Currency		nvarchar(3)	
LicTradNum	Federal tax ID		nvarchar(32)	
Balance	Account balance		numeric(4)	
DNotesBal	Goods receipt POs		numeric(4)	
OrdersBal	Purchase orders		numeric(4)	
Phone1	Phone 1		nvarchar(20)	
Phone2	Phone 2		nvarchar(20)	
Cellular	Cellular		nvarchar(50)	
Fax	Fax		nvarchar(20)	
E_Mail	E_Mail		nvarchar(100)	
IntrntSite	Web site		nvarchar(100)	
ShipType	Shipping type		smallint(2)	
PASSWORD	Password		nvarchar(32)	

© 2026 Boyum IT Solutions A/S

Indicator	Factoring indicator		nvarchar(2)	
ProjectCod	BP Project		nvarchar(20)	
IndustryC	Industry		int(4)	
CmpPrivate	Business partner type		char(1)	
CntctPrsn	Contact person		nvarchar(90)	
AddID	ID No. 2		nvarchar(64)	
Notes	Notes		nvarchar(100)	
SlpCode	Buyer		int(4)	
AliasName	Alias Name		ntext(8)	
GlblLocNum	GLN		nvarchar(50)	
ValidFrom	Active from		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ValidTo	Active to		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ValidComm	Active remarks		nvarchar(30)	
frozenFrom	Inactive from		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
frozenTo	Inactive to		datetime(8)	best date format: yyyy/mm/dd

© 2026 Boyum IT Solutions A/S

				hh:mm in 24 hour format Time format with am/pm not working.
FrozenComm	Inactive remarks		nvarchar(30)	
BlockComm	Block Sending Marketing content		char(1)	
Address	Address		nvarchar(100)	
StreetNo	StreetNo		nvarchar(100)	
Block	Block		nvarchar(100)	
City	City		nvarchar(100)	
ZipCode	Zip Code		nvarchar(20)	
County	County		nvarchar(100)	
State1	State1		nvarchar(3)	
State2	State2		nvarchar(3)	
Country	Country		nvarchar(3)	
Building	Building / Floor / Room		ntext(8)	
GroupNum	Payment terms		smallint(2)	
IntrstRate	Interest on Arrears %		numeric(4)	
ListNum	Price list		smallint(2)	
DISCOUNT	Total discount %		numeric(4)	
CreditLine	Credit limit		numeric(4)	
DebtLine	Commitment limit		numeric(4)	
DunTerm	DunTerm		nvarchar(25)	
DiscRel	Effective discount groups		char(1)	
BankCountr	Bank country		nvarchar(3)	
BankCode	Bank name		nvarchar(30)	
DflAccount	Account		nvarchar(50)	
DflSwift	BIC / SWIFT code		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

DflBranch	Branch		nvarchar(50)	
BankCtlKey	Ctrl. Int. ID		nvarchar(2)	
DflIBAN	IBAN		nvarchar(50)	
MandateID	Mandate ID		nvarchar(35)	
SignDate	Date of signature		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
CreditCard	Credit Card		smallint(2)	
CrCardNum	CrCardNum		nvarchar(64)	
CardValid	CardValid		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
OwnerIdNum	OwnerIdNum		nvarchar(15)	
OwnerCode	OwnerCode		int(4)	
AvrageLate	Average delay		smallint(2)	
priority	Priority		int(4)	
IBAN	Default IBAN		nvarchar(50)	
HldCode	Holidays		nvarchar(20)	
PartDelivr	Allow partial delivery of Sales Order		char(1)	
BackOrder	Allow partial delivery per row		char(1)	
NoDiscount	Do not apply discount groups		char(1)	
HousBnkCry	House bank -		nvarchar(3)	

© 2026 Boyum IT Solutions A/S

	Country			
HouseBank	House bank - Bank		nvarchar(30)	
HousBnkAct	House bank - Account		nvarchar(50)	
HousBnkBrn	House bank - Branch		nvarchar(50)	
HsBnkIBAN	House bank - IBAN		nvarchar(50)	
HsBnkSwift	House bank - Swift		nvarchar(50)	
HousCtlKey	House bank - Control No.		nvarchar(2)	
PaymBlock	Payment block		char(1)	
PyBlckDesc	Payment block description		int(4)	
SinglePaym	Single payment		char(1)	
BCACode	Bank charges allocation code		nvarchar(3)	
FatherCard	Consolidating BP		nvarchar(15)	
FatherType	Consolidation Type		char(1)	
BlockDunn	BlockDunn		char(1)	
FormCode	1099 Form		int(4)	
Box1099	1099 Box		nvarchar(20)	
ConnBP	Connected customer		nvarchar(15)	
PlngGroup	Planning group		nvarchar(10)	
Affiliate	Affiliate		char(1)	
Free_Text	Remarks		ntext(8)	
VatStatus	VatStatus		char(1)	
MailZipCod	Mail zip code		nvarchar(20)	
ValidUntil	Deduction valid until		datetime(8)	
OrderBalFC	Open orders balance		numeric(4)	

© 2026 Boyum IT Solutions A/S

Commission	Commission percent		numeric(4)	
CommGrCode	Commission group code		smallint(2)	
RateDifAct	Rate Diff Account		nvarchar(15)	
MailCounty	Mail county		nvarchar(100)	
DdctOffice	Deduction office		nvarchar(10)	
DscntRel	Discount Relations		char(1)	
DscntObjct	Discount base object		smallint(2)	
MinIntrst	Min interest		numeric(4)	
OprCount	Open oportunities		int(4)	
ExemptNo	Exempt number		nvarchar(50)	
ValidFor	Active for		char(1)	
frozenFor	Inactive for		char(1)	
DdgKey	Withholding tax deduction group		int(4)	
DebPayAcct	Account Recivable Payables		nvarchar(15)	
ShipToDef	Ship to default		nvarchar(50)	
MailBlock	Mail Address		nvarchar(100)	
DunnLevel	Dunning level		int(4)	
DunnDate	Dunning date		datetime(8)	
CollecAuth	Collection authorization		char(1)	
InstrucKey	Instruction key		nvarchar(30)	
ISRBillId	ISR Biller ID		nvarchar(9)	
RefDetails	Reference details		nvarchar(20)	
DeferrTax	Deferred tax		char(1)	
LetterNum	Tax exemption letter number		nvarchar(50)	
MaxAmount	Max amount of exemption		numeric(4)	

© 2026 Boyum IT Solutions A/S

WTLiable	Subject to withholding tax		char(1)	
CrtfcateNO	Crtfcate number		nvarchar(20)	
AccCritria	Accrual criteria		char(1)	
Equ	Equalization		char(1)	
TypWTReprt	Type report		char(1)	
OtrCtlAcct	Other receivable payable		nvarchar(15)	
MailBuildi	Ship to building floor room		ntext(8)	
BoEDiscnt	Customer bill of exchange Discount		nvarchar(15)	
BoEOnClct	Bill of exchange on collection		nvarchar(15)	
DfTcnician	Default technician		int(4)	
BillToDef	Bill to default		nvarchar(50)	
DpmClear	Down payment clear act		nvarchar(15)	
LangCode	Language code		int(4)	
CDPNum	Closing date procedure number		smallint(2)	
DflBankKey	Default bank code		int(4)	
RegNum	Company registration number		nvarchar(32)	
VerifNum	Verification number		nvarchar(32)	
InsurOp347	Insurance operation 347		char(1)	
ThreshOver	Threshold overlook		char(1)	
SurOver	Surcharge overlook		char(1)	
OpCode347	Operation code		char(1)	

© 2026 Boyum IT Solutions A/S

	347			
SefazReply	SefazReply		nvarchar(254)	
SefazDate	SefazDate		datetime(8)	
U_beas_spr	U_beas_spr		nvarchar(20)	
U_ECNA_001	U_ECNA_001		nvarchar(10)	
U_XXX	U_XXX		nvarchar(10)	

Description	See	Table
Business partner - Ship To and Bill To addresses list	SAP Documentation	CRD1

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
CardCode	Card code		nvarchar(15)	
AdresType	AdresType		char(1)	Valid values: BillTo=B ShipTo=S
Address	Address ID		nvarchar(50)	
Address2	Address name 2		nvarchar(50)	
Address3	Address name 3		nvarchar(50)	
Street	Street / PO box		nvarchar(100)	
Block	Block		nvarchar(100)	
City	City		nvarchar(100)	
ZipCode	Zip code		nvarchar(20)	
County	County		nvarchar(100)	
State	State		nvarchar(3)	
Country	Country		nvarchar(3)	
StreetNo	Street No.		nvarchar(100)	
Building	Building/Floor/Room		ntext(8)	
TaxOffice	Tax office		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

GlblLocNum	GLN		nvarchar(50)	
TaaSEnbl	Taas enabled		char(1)	

Description	See	Table
Business partner - Contact information of employees	SAP Documentation	OCPR

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
CardCode	CardCode		nvarchar(15)	
Name	Name		nvarchar(50)	
firstName	First name		nvarchar(50)	
lastName	Last name		nvarchar(50)	
Title	Title		nvarchar(10)	
Position	Position		nvarchar(90)	
Address	Address		nvarchar(100)	
Tel1	Telephone 1		nvarchar(20)	
Tel2	Telephone 2		nvarchar(20)	
Cellolar	Mobile phone		nvarchar(50)	
Fax	Fax		nvarchar(20)	
E_MailL	E-Maill		nvarchar(100)	
EmlGrpCode	E-Mail Group		nvarchar(20)	
pager	Pager		nvarchar(30)	
Notes1	Remarks 1		nvarchar(100)	
Notes2	Remarks 2		nvarchar(100)	
PASSWORD	Password		nvarchar(8)	
BirthPlace	Country of birth		nvarchar(100)	
birthDate	Date of birth		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with

© 2026 Boyum IT Solutions A/S

				am/pm not working.
GENDER	Gender		char(1)	
Profession	Profession		nvarchar(50)	
BirthCity	City of birth		nvarchar(100)	
Active	Active		char(1)	

Description	See	Table
Tool master data.	Edit Tool	BEAS_WKZ

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
WKZ_ID	Tool Key	X	nchar(20)	
WKZTYP_ID	Type		nchar(1)	Valid values: Tool=W Help Tool=H
BEZ	Description	X	nvarchar(255)	
AKTIV	Active		int(4)	Valid values: Yes=1 No=0
GESPERRT	Block availability		int(4)	Valid values: Yes=1 No=0
GESPERRT_BIS	Block availability to		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ZNR	Drawing number		nvarchar(50)	
ART	Type		nvarchar(100)	
CardCode	Customer		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

LAGO_ID	Store location (Warehouse)		nvarchar(20)	
Project	Project		nvarchar(20)	
LPLATZ_ID	Bin location		nvarchar(20)	
MENGE	Quantity tools		int(4)	
NUTZEN	Use factor by (shot/pass)		decimal(9)	
KAPAPLANUNG	Capacity planning		int(4)	Valid values: Yes=1 No=0
BESTIMMT_ZEIT	Defines lead time		int(4)	if active, the tool define the duration time of work order position Valid values: yes=1 no=0
CHOOSEABLE	Selectable at time receipt		int(4)	Valid values: yes=1 no=0
BEMERKUNG	Remark		ntext(8)	
ItemCode	Item number		nvarchar(50)	
APSVIEW	View in APS		int(4)	Valid values: No=0 Yes=1
DATUM	Date of purchase		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
BETRIEBSDAUER	Product life in units		numeric(4)	
LIEF_ID	Supplier		nchar(20)	

© 2026 Boyum IT Solutions A/S

FERTIGER	Manufacturer (Name)		nvarchar(50)	
INSTKST	Maintenance costs		numeric(4)	
INSTKSTJE	Maintenance costs per units ot measure		int(4)	
KST	Purchased price		numeric(4)	
KTIMETYPE_ID	Cost element for buy		nvarchar(20)	
KOSTENJE	Cost input in		int(4)	Valid values: Quantity=0 Time=1
WTIMETYPE_ID	Cost element for maintenance		nvarchar(20)	
KAUFBEMERKUNG	Remark		nvarchar(0)	
KAPACHECKLIMIT	Consider resource limits		nchar(1)	Valid values: No=0 Yes=1
BETRIEBSZEIT	Operation Time:		numeric(4)	
WARTUNG_MAX	Maintenance all per unit		int(4)	
WARTUNG_LETZTE	Last maintenance		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
WARTUNG_ZAEHLER	Maintenance counter		int(4)	
BILD1	Attachment 1		nvarchar(255)	
BILD2	Attachment 2		nvarchar(255)	
BILD3	Attachment 3		datetime(8)	

© 2026 Boyum IT Solutions A/S

ZUSTAND	Status		nvarchar(20)	
LIEGEZEIT	Idle time		int(4)	
LIEGEZEIT_TYP	--		int(4)	
ZEITKSTGK	Cost per time unit / Marginal Cost		numeric(4)	
ZEITKSTVK	Cost per time unit / Full Cost		numeric(4)	
ZEITKSTZEITJE	Cost unit		int(4)	
WARTUNG_INFO	Maintenance info		nvarchar(100)	
ZAEHLERSTAND	Counter status		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ZAEHLER_VOM	Counter status from		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
GESPERRT_GRUND	Locked reason		nvarchar(255)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
DOCUMENTS	Edit documents		nvarchar(0)	

Description	See	Table
Tool Bill of Materials	Toll BoM edit	BEAS_WKZ_STL

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

© 2026 Boyum IT Solutions A/S

Field	Name	M	Type	Description
WKZ_ID	Resource ID	X	nchar(20)	
POS_ID	Position	X	int(4)	
WKZ1_ID	Tool Bill of Material		nchar(20)	
MENGE	Quantity		numeric(4)	
INFO	Information		nvarchar(255)	

Description	See	Table
Raw Material	Raw Material	BEAS_WST

Field	Name	M	Type	Description
WST_ID	Raw Material ID	X	nchar(20)	
BEZ	Description	X	nvarchar(100)	
GROUPID	Group ID		nvarchar(100)	
DICHTE	Density		numeric(4)	
PRICE1	Price		numeric(4)	
PROPERTIE1	Property 1		numeric(4)	
PROPERTIE2	Property 2		numeric(4)	
PROPERTIE3	Property 3		numeric(4)	
PROPERTIE4	Property 4		numeric(4)	
UDF1	User Field f1		nvarchar(50)	
UDF2	User Field f2		nvarchar(50)	
UDF3	User Field f3		nvarchar(50)	
UDF4	User Field f4		nvarchar(50)	

3.3.1.1.4.7 DIH Production

Import Production related definitions.

DIH Work Order

DIH Production - WO Header

DIH Production - WO Position

© 2026 Boyum IT Solutions A/S

DIH Work Order BoM

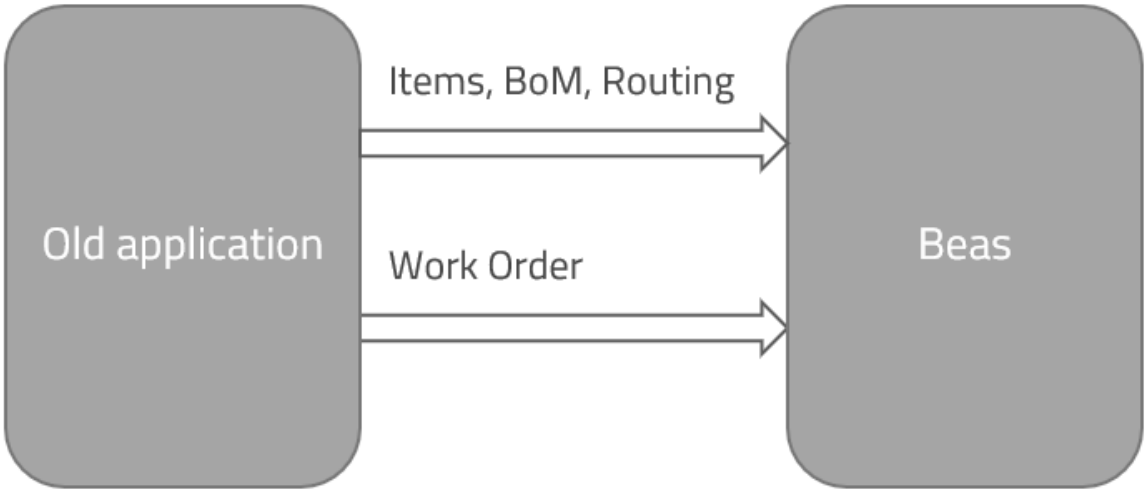
DIH Production Time Receipt

Imports Work order definitions.
A work order has the following objects:

- Migration from old or third-party application

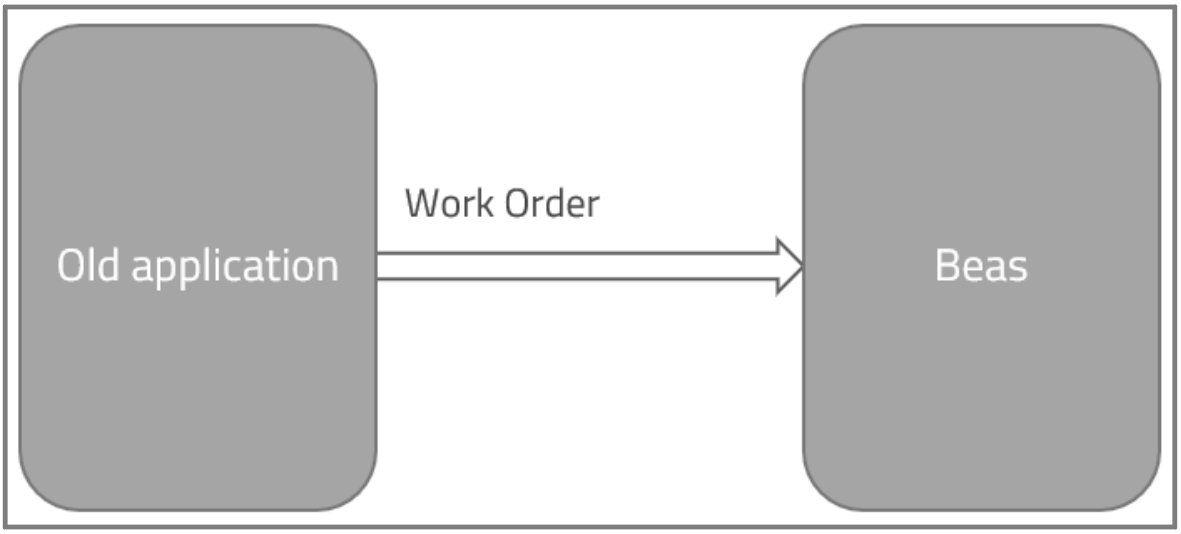
Example:
The old system contains all items, Bill of materials and routing information. These data can be imported with the Integration hub. After this is complete, work orders can be imported.
Only the top level assembly can be defined. Beas reads Bill of materials and routing information from imported master data.

It is not possible to import routing or bill of materials for every work order separately.

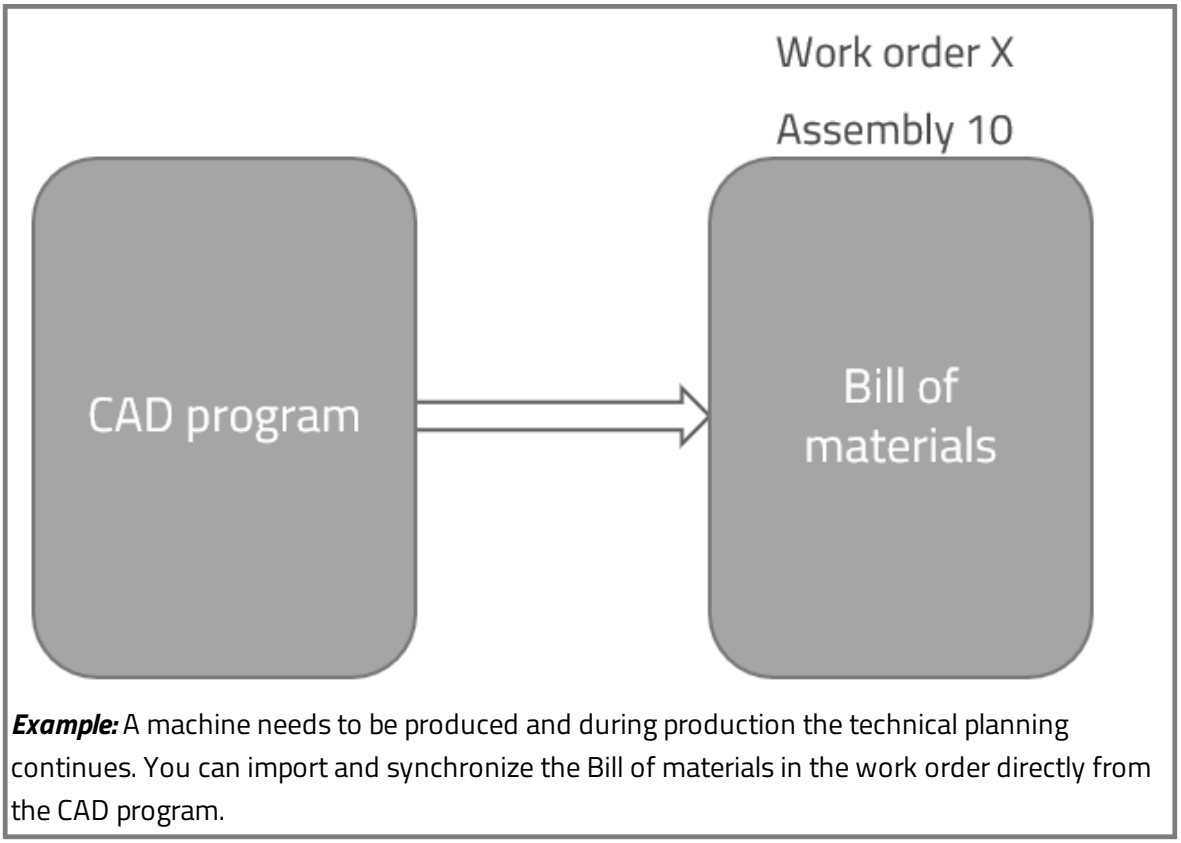


A third-party application can define the work orders in Beas. You can use this option if you have an external planning tool for production in stock.

© 2026 Boyum IT Solutions A/S



- Creating Bill of materials synchronization between a third-party application and Beas



Example: A machine needs to be produced and during production the technical planning continues. You can import and synchronize the Bill of materials in the work order directly from the CAD program.

Description	See	Table
Work order Header	Edit work order header	BEAS_FTHAUPT

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

© 2026 Boyum IT Solutions A/S

Use this if you want to update the header information or if you want to create new work orders and you need only the item code and quantity for the work order position.
Inserts first work order position with item code and quantity.
Beas explodes the Bill of materials, routing position and all order-related sub-assemblies.

Note: Creating reference to other documents or changing any properties in the work order line is not possible.
You can change the work order type, but it is not possible to change the work order type related flags; Beas ignores these changes.

You cannot define the document number (BEAS_FTHAUPT.BELNR_ID), only the order number (BEAS_FTHAUPT.AUFTRAG).
Most properties are changeable, but you cannot change the created work order positions.
Beas ignores the item code and quantity property.

Field	Name	M	Type	Description
BELNR_ID	Document no	X	int(4)	Document number (numeric) import: insert "0" as default value
AUFTRAG	Order Number		nvarchar(50)	
TYP	Work order type		nvarchar(30)	
BELDAT	Order date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
KND_ID	Customer Id		nchar(20)	The Customer, Lead or Vendor
KNDNAME	Customer Name		nvarchar(100)	
KND_SHIPTOCODE	Customer Delivery		nvarchar(100)	
KNDSTRASSE	Customer Street		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

KNDPLZ	Customer ZIP / City		nvarchar(10)	
KNDORT	Customer Location		nvarchar(50)	
KNDLAND	Customer Country		nvarchar(30)	
KNDTELEFON1	Customer Telephone		nvarchar(50)	
PRIOR_ID	Priority		char(0)	
Project	Project		nvarchar(20)	
PRJUID	Task		int(4)	
BPLName	Branch		nvarchar(100)	
ZUSATZTEXT	Information		nvarchar(255)	
STATUS_ID	Status		nvarchar(20)	
LFGDAT	Delivery Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ANFZEIT	Start Time		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ENDZEIT	End		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
GEMEINKOSTEN	Overhead order		int(4)	Valid values: Yes=1

© 2026 Boyum IT Solutions A/S

				No=0
PLANNINGORDER	Planned order		int(4)	Valid values: Yes=1 No=0
TIMECALCULATE	Schedule automatically		int(4)	Valid values: Yes=1 No=0
SPERRUNG	Block		nchar(1)	Valid values: Yes=J No=N
UNVISIBLE	Invisible		int(4)	Valid values: Yes=1 No=0
APSSTATUS	APS: Planned		int(4)	Valid values: Yes=1 No=0
DRUCKKZ	Printed		nchar(1)	Valid values: Yes=J No=N
ABGKZ	Closed		char(0)	Valid values: Yes=J No=N
PROJECTUSER1	Project manager 1		nvarchar(25)	
PROJECTUSER2	Project manager 2		nvarchar(25)	
PROJECTSTATE	Project Status		nvarchar(20)	
PRJINFO1	Info 1		nvarchar(50)	
PRJINFO2	Info 2		nvarchar(50)	
PLANNEDHOURS	Time		int(4)	
PLANNEDCOSTS	Cost		decimal(9)	
INFORMATION2	information 2		nvarchar(0)	
PRJUDF1	Project UDF 1		nvarchar(50)	
PRJUDF2	Project UDF 2		nvarchar(50)	
PRJUDF3	Project UDF 3		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

PRJUDF4	Project UDF 4		nvarchar(50)	
UDF1	User Field 1		nvarchar(100)	
UDF2	User Field 2		nvarchar(100)	
UDF3	User Field 3		nvarchar(100)	
UDF4	User Field 4		nvarchar(100)	
UDF5	User Field 5		nvarchar(100)	
UDF6	User Field 6		nvarchar(100)	
UDF7	User Field 7		nvarchar(100)	
UDF8	User Field 8		nvarchar(100)	
UDF9	User Field 9		nvarchar(100)	
UDF10	User Field 10		nvarchar(100)	
UDF11	User Field 11		nvarchar(100)	
UDF12	User Field 12		nvarchar(100)	
UDF13	User Field 13		nvarchar(100)	
UDF14	User Field 14		nvarchar(100)	
UDF15	User Field 15		nvarchar(100)	
ItemCode	Item Number		nvarchar(50)	
PROJECT_MANUAL	Quantity (import)		int(4)	only for import: You can define in this field the quantity to produce

Enter topic text here.

Description	See	Table
Work order position	Edit Work order position master data	BEAS_FTPOS

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Use this to import work order positions with extended position information.
The assembly can be defined, but Beas always uses the BoM and routing information from item master data.

© 2026 Boyum IT Solutions A/S

Add position to existing work orders.
Beas explodes the Bill of materials, routing position and all order-related sub-assemblies.
If you do not define a work order number, Beas creates a new work order (BELNR_ID=0).
It is not possible to define additional information for work order header if the system creates a new work order.
It is not possible to update existing positions.

The work order document number, work order position and bill of materials position are mandatory.
When trying to insert an exiting BoM position, Beas updates the position.
Beas does not explode order related assemblies. Multilevel work orders cannot be created.

Defines linked information.

Field	Name	M	Type	Description
BELNR_ID	Document Number	X	int(4)	Work order document number (internal counter) Import: insert value "0" for create new entry. You can't define the number for new work orders
BELPOS_ID	Line Number	X	int(4)	Work order position
BarCode	Barcode		nvarchar(10)	
ItemCode	Item	X	nvarchar(50)	
U_beas_ver	I-Version		nvarchar(20)	
ItemName	Description		nchar(100)	
SHORTVARIANT	Variant		nchar(1)	Valid values: A=A B=B C=C D=D E=E

© 2026 Boyum IT Solutions A/S

				F=F G=G H=H I=I J=J K=K L=L M=M N=N O=O P=P Q=Q R=R S=S T=T U=U V=V W=W X=X Y=Y Z=Z
VRI	Configuration		int(4)	
MENGE_VERBRAUCH	Qty. to produce in Usage inut	X	numeric(4)	
MENGE_VERSCHNITT	Cut-Off Quantity		numeric(4)	
STARTZEIT_STRUKTUR	Start Structure		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
STARTZEIT	Start date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour

© 2026 Boyum IT Solutions A/S

				format Time format with am/pm not working.
ANFZEIT	Start Time		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ENDZEIT	End		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
LIEFERDATUM	Delivery Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
STATUS_ID	Status		nvarchar(20)	Valid values: = Start Status Position (0%)=Start
ZUSATZTEXT	Info		nvarchar(4000)	
RevisionLevel	Revision		nvarchar(30)	
StlItemCode	Bill of Materials		nvarchar(60)	
RoutingId	Routing		nvarchar(60)	
U_znr	Drawing no.		nvarchar(50)	
WST_ID	Raw material		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

Match	Match code		nvarchar(50)	
DIN	DIN		nvarchar(50)	
Project	Project		nvarchar(20)	
PRJUID	Task		int(4)	
Confirmed	Approved		int(4)	Valid values: Yes=1 No=0
STARTCAPACITYPLANUNG	Capacity Planning		int(4)	Valid values: Yes=1 No=0
STARTDISPOSITION	Material planning		int(4)	Valid values: Yes=1 No=0
STARTTIMEREQUEST	Login to work order		int(4)	Valid values: Yes=1 No=0
STARTBOOKING	Material posting		int(4)	Valid values: Yes=1 No=0
CanModifyWo	Allow changes		int(4)	Valid values: Yes=1 No=0
DRUCKKZ	Printed?		nchar(1)	Valid values: Yes=J No=N
PrintDate	Print Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
WhsCode	Warehouse		nvarchar(20)	
FromWhsCode	For Warehouse		nvarchar(20)	
BINCODE	Bin Location		nvarchar(20)	

© 2026 Boyum IT Solutions A/S

CHARGE_ID	Batch		nvarchar(30)	only for information. No functionality!
QS_ID	QC Inspection plan		nvarchar(50)	
SCHEMA_ID	Schema		nvarchar(20)	
VKPREIS	Sales Price		numeric(4)	
ACCOUNT_WIP	Account WIA		nvarchar(15)	
ACCOUNT_VARIANCE	Account Variance		nvarchar(15)	
EXPANDALL	Always breakdown subassemblies		int(4)	Valid values: Yes=1 No=0
MENGE_BESTELLT	Quantity ordered		numeric(4)	
MENGE_FERTIG_MAUELL	Manually Finished Message Quantity		numeric(4)	
AUFTRAGINT	Base Number		int(4)	Base Entry To Sales Order: RDR1.DocEntry To PreInvouce: INV1.DocEntry
AUFTRAGPOS	Base Linenum		int(4)	Line number (linenum) from base document RDR1.LineNum INV1.LineNum
AUFTRAGHERKUNFT	Base type		nchar(1)	Base Type SalesOrder = K PreInvoice = R
BaseDocNum	Base Document number		int(4)	
DocEntry	Base doc entry		int(4)	
BaseLine	Base Line		int(4)	
BASELINE2	Base Line 2		int(4)	
UDF1	User Field 1		nvarchar(100)	

© 2026 Boyum IT Solutions A/S

UDF2	User Field 2		nvarchar(100)	
UDF3	User Field 3		nvarchar(100)	
UDF4	User Field 4		nvarchar(100)	
UDF5	User Field 5		nvarchar(100)	
UDF6	User Field 6		nvarchar(100)	
UDF7	User Field 7		nvarchar(100)	
UDF8	User Field 8		nvarchar(100)	
UDF9	User Field 9		nvarchar(100)	
UDF10	User Field 10		nvarchar(100)	
UDF11	User Field 11		nvarchar(100)	
UDF12	User Field 12		nvarchar(100)	
UDF13	User Field 13		nvarchar(100)	
UDF14	User Field 14		nvarchar(100)	
UDF15	User Field 15		nvarchar(100)	

Description	See	Table
Work order Bill of materials	Edit Work order BoM - General	BEAS_FTSTL

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Use this to synchronize the BoM with external programs.
You can add and change Bill of materials positions of existing work order positions.
All properties of an existing Bill of materials position can be updated.
Beas does not change existing sub-position.
You can delete a BoM if you set the quantity to 0, but only if no related transaction or reservation exists.

Imports Work Order Bill of Materials definitions.
The following fields are mandatory:

- Document number, work order position number, bill of materials position number
- Quantity

Entries can only be changed if changes are allowed and the work order position is not closed.

Position numbers:

© 2026 Boyum IT Solutions A/S

- The internal position number. If this is a new number or if it is 0, Beas creates a new position.
- If you do not set the position text, Beas sets the position number in position text.
- The internal position number does not define the sorting. You must define this separately. ***See*** Sorting rules.

Position text:

- If this is not set manually, Beas inserts the defined or generated internal position ID.
- It can be defined and changed every time.

ItemCode:

Item code is mandatory and the item must exist.

The integration hub does not check additional rules.

If you change the item and the related position, reservation or transactions exist, Beas does not change anything.

Note: If you insert an order-related item, Beas does not create an order-related sub-position.

ItemVersion:

The system checks if the Item Version exists and not locked.

But it is allowed to use it, if not released.

Quantity:

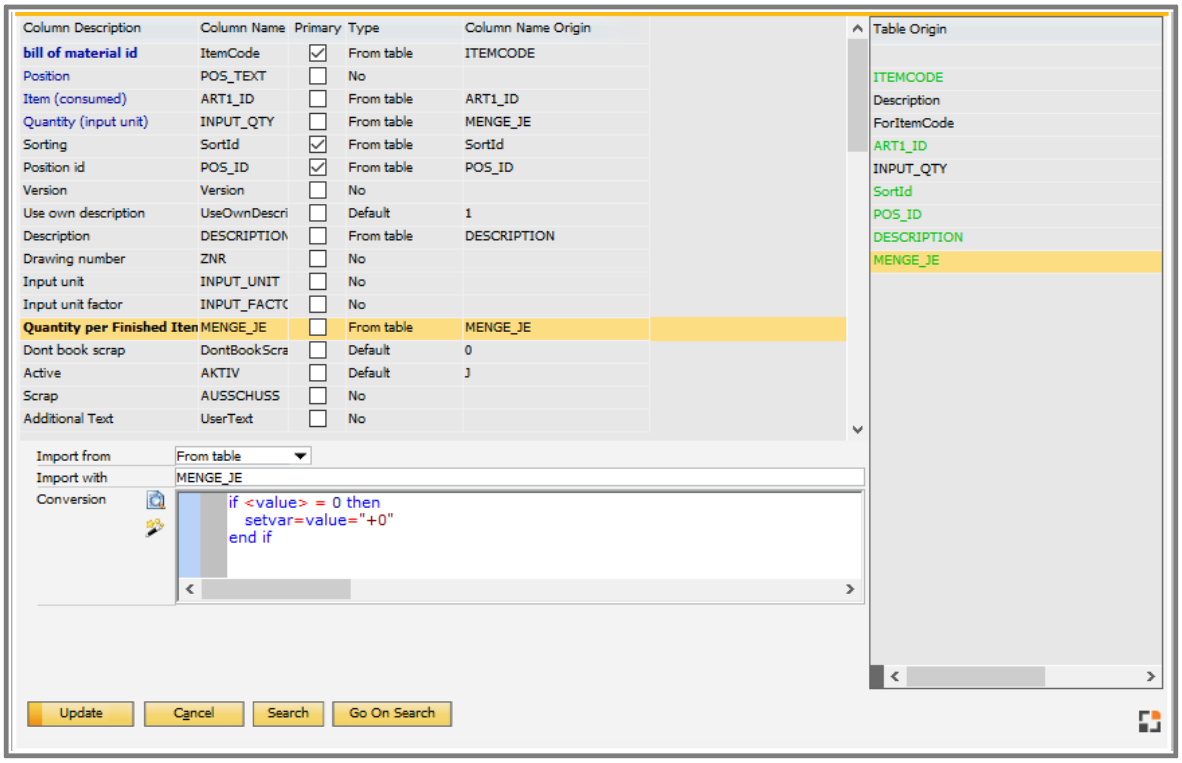
Rules for quantity in the BoM import:

- A value > 0 inserts a positive amount.
- A value < 0 inserts a negative amount.
- A value of 0 deletes an existing position. ***See*** Delete a bill of materials position.
- A value of +0 adds a position with 0 amount.

Example of importing a +0 value

If you only have 0 quantity in the importfile, you can convert the value

© 2026 Boyum IT Solutions A/S



Delete a Bill of materials position:

It is possible to delete an existing Bill of materials position. Beas requires the following fields: BELNR_ID,BELPOS_ID and POS_ID and Quantity=0.

- If any transaction exists on this position, the position cannot be deleted.
- If a reservation exists, Beas deletes the reservation.
- If the position is an order-related assembly, Beas deletes all related sub-positions.
- If a deletion of a sub-position is not possible, Beas closes all related sub-positions.

Sorting (SortId):

Defines the sorting for the Bill of materials positions. You can define a positive number or special sorting rules.

Special sorting rules

Sort Id	Description
-1	Order by internal position number. The system searches by position, and chooses a number that is lower than the current position and higher than the lowest existing position. It receives this sortid, increments it with 1 and defines it as a sortid from the current position. ***Example:***

© 2026 Boyum IT Solutions A/S

Sort Id	Description
	Pos 10 – Sort 10 Pos 20 – Sort 20 You insert Pos 15 Pos 10 – Sort 10 Pos 15 – Sort 11 Pos 20 – Sort 20 This is a fast variant, because Beas must only insert Pos 15, but in other situations this can generate a problem. ***Example:*** Pos 10 – Sort 1 Pos 20 – Sort 2 You insert Pos 15 Result in MSSQL: Pos 10 – Sort 1 Pos 15 – Sort 2 Pos 20 – Sort 2 Result in HANA: Pos 10 – Sort 1 Pos 20 – Sort 2 Pos 15 – Sort 2 In this case Pos 20 and Pos 15 have the same Sort id and it is not clear which position is the first position.
-2	Order by internal position number. In this case Beas sorts the complete bill of materials position by internal position number

© 2026 Boyum IT Solutions A/S

Sort Id	Description
	Beas must save every change from every bill of materials position. In case a large number of positions must be inserted, this concept produces a lot of change requests. Do not use this for mass import. ***Example:*** Pos 10 - Sort 10 Pos 20 - Sort 20 Pos 30 - Sort 30 You insert Pos 15 Pos 10 – Sort 10 Pos 15 – Sort 20 <- insert Pos 20 – Sort 30 <- update Pos 30 – Sort 40 <- update
-3	Order by position text (alphanumeric). ***Example*** Pos Text A10 Sort 10 Pos Text A20 Sort 20 Pos Text A50 Sort 30 You insert position with Pos Text = A30 Pos Text A10 Sort 10 Pos Text A20 Sort 20 Pos Text A30 Sort 20 <- insert Pos Text A50 Sort 30 <- update Attention: You can encounter the following issue when working with numbers: ***Example*** Pos Text 10 Sort 10 Pos Text 20 Sort 20

© 2026 Boyum IT Solutions A/S

Sort Id	Description
	Pos Text 100 Sort 30 Insert Position Pos Text = 50, and the result (alphanumeric sorting) is the following: Pos Text 10 Sort 10 Pos Text 100 Sort 20 <- update Pos Text 20 Sort 30 <- update Pos Text 50 Sort 40 <- insert
-4	Order by position text (converted to number) ***Example*** Pos Text 10 Sort 10 Pos Text 20 Sort 20 Pos Text 100 Sort 30 You insert position with Pos Text = 50 Pos Text 10 Sort 10 Pos Text 20 Sort 20 Pos Text 50 Sort 30 <- insert Pos Text 100 Sort 40 <- update If you insert a position with alphanumeric position text, Beas sets this to first position. ***Example***: insert position with text A001 Pos Text A001 Sort 10 <- insert Pos Text 10 Sort 20 <- update Pos Text 20 Sort 30 <- update Pos Text 100 Sort 40 <- update

WO BoM

Field	Name	M	Type	Description

© 2026 Boyum IT Solutions A/S

SortId	Sort		int(4)	Internal sort id. beas sort the bom list by this number Integration hub -1 = sort by POS_ID, fast solution -2 = sort by POS_ID, beas sort the complete bill of material list -3 = sort by Position Text - alphanumeric -4 = sort by Position Text - Numeric More information see documentation object ue_api_wobom - beas check the sortid and all special rules too, if you save this with wobom.save
BELNR_ID	Work order Number	X	int(4)	
BELPOS_ID	Work order Position	X	int(4)	
POS_ID	internal bom position		int(4)	Internal Position number. You can't change it. This is not the sort number. Sorting is defined by SortId

© 2026 Boyum IT Solutions A/S

				Integration hub - use POS_ID=0 - beas create the next number - if you define a POS_ID, beas update the existing position number or create a new line, if not existing ue_api_wobom - the object don't check, if the pos-id is existing. if you insert a existing pos_id a second time, you create a primary key error.
POS_TEXT	Bill of Material Position		nvarchar(20)	
ART1_ID	Itemcode	X	nvarchar(50)	
U_beas_ver	Version		nvarchar(20)	
INPUT_QTY	Quantity in input unit	X	numeric(4)	
INPUT_UNIT	Unit for Input Quanitty		nvarchar(20)	define separate Input unit id
INPUT_FACTOR	Factor between Input and prodiction unit		numeric(4)	
AUSSCHUSS	Calculated Scrap		numeric(4)	
MENGE_VERSCHNITT_LA	Cut-Off in Warehouse Unit		numeric(4)	

© 2026 Boyum IT Solutions A/S

APLANPOS_ID	Routing-position		int(4)	Link to Routing position Database - NULL: Related to first or last routing position (related to setting)
ROUND_TYPE	Rounding type		int(4)	Valid values: Rounding at .5=0 Rounding up=1 Rounding Down=2 Multiple of=3 No rounding=-1
ABM1	Length		numeric(4)	
ABM2	Width / o.d		numeric(4)	
ABM3	H / i.d		numeric(4)	
INFO	Info		nvarchar(50)	
UserText	Additional text		nvarchar(255)	
WhsCode	Warehouse		nvarchar(20)	
BINCODE	Bin Location		nvarchar(228)	
ROUND_DEC	Rounding dec.		int(4)	
Match	Match code		nvarchar(50)	
SHORTVARIANT	Variant		nchar(1)	
GRUPPE	Material Group		nvarchar(20)	
VRI	Configuration		int(4)	
WST_ID	Raw material		nvarchar(20)	
DICHTE	Density		numeric(4)	
OnlyReservation	Only Reservation Booking		int(4)	Valid values: Yes=1 No=0
PlaningSysNoSub	Planning method		int(4)	

© 2026 Boyum IT Solutions A/S

Material				Valid values: Automatically=0 No=1
BITMAPNAME	Picture		nvarchar(50)	Valid values: bmp=bmp
COLORID	Color		int(4)	
DontBookScrap	Don t post scrap		int(4)	Valid values: Yes=1 No=0
MENGE_VERSCHNITT_VE	Fixed quantity surcharge		numeric(4)	
MENGE_JE	Per		decimal(9)	
DIN	DIN		nvarchar(50)	
ABGKZ	Closed		nchar(1)	Valid values: Yes=J No=N
UDF1	User Field 1		nvarchar(100)	
UDF2	User Field 2		nvarchar(100)	
UDF3	User Field 3		nvarchar(100)	
UDF4	User Field 4		nvarchar(100)	
UDF5	User Field f5		nvarchar(100)	
UDF6	User Field f6		nvarchar(100)	
UDF7	User Field f7		nvarchar(100)	
UDF8	User Field f8		nvarchar(100)	
UDF9	User Field f9		nvarchar(100)	
UDF10	User Field f10		nvarchar(100)	
UDF11	User Field f11		nvarchar(100)	
UDF12	User Field f12		nvarchar(100)	
UDF13	User Field f13		nvarchar(100)	
UDF14	User Field f14		nvarchar(100)	

© 2026 Boyum IT Solutions A/S

UDF15	User Field f15		nvarchar(100)	
PrjCode	Project Code		nvarchar(20)	
BBD_OPTION	BBD Option		nchar(1)	Valid values: Due date=D Pickdate=P Best before date=B

Description	See	Table
Production Time Receipt	Edit Production Time Receipt	BEAS_ARBZEIT

Important: Beas can only "Insert" new records. The Data Integration Hub does not support "updates" for existing records.

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
BELNR_ID	Work order number	X	numeric(4)	
BELPOS_ID	Work order position number	X	numeric(4)	
POS_ID	Routing position number	X	numeric(4)	
DocDate	Valuation date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
RESOURCENPOS_ID	Parallel Position		int(4)	Internal position number of parallel resource linked to BEAS_FTAPL.WKZ POS_ID !

© 2026 Boyum IT Solutions A/S

PERS_ID	Employee number	X	nchar(20)	
ANFZEIT	Start Date	X	datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ENDZEIT	End Date	X	datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
MENGE_GUT_RM	Yield Quantity		numeric(4)	Quantity im time receipt unit
MENGE_SCHLECHT_RM	Scrap Quantity		numeric(4)	Scrap Quantity im time receipt unit
APLATZ_ID	Resource		nchar(20)	
TIMETYPE_ID	Time Type		nvarchar(20)	
KSTST_ID	Cost Center		nchar(20)	
BatchNum	Batch Number		nvarchar(40)	
manualbooking	Disable backflushing	X	char(1)	Only Import field: Disable this field, if you want use the backflush function. Attention: beas can book only material which defined. If you use manual batchnumbers then beas can't receipt the assembly.

© 2026 Boyum IT Solutions A/S

				Valid values: Disable backflush=Y Use default backlfush process=N
GRUND	Reason for Entry		nvarchar(255)	
ZEIT	Time	X	numeric(4)	
ABGKZ	Closed		nchar(1)	Valid values: Close Routing Position=Y Don't close Routing Position=N
Project	Project		nvarchar(20)	
EXTERNAL_COST	External Cost		numeric(4)	Cost (manual entry)
TYP	message typ		nchar(1)	Valid values: normal time=A tool time=R time 2 (H)=H time 3 (N)=N
WKZ_ID	Tool Id		nvarchar(20)	Which Tool id (from tool administration BEAS_WKZ) used for this time operation Only for information. Not mandatory
UDF1	Userfield 1		nvarchar(50)	
UDF2	Userfield 2		nvarchar(50)	
UDF3	Userfield 3		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

UDF4	Userfield 4		nvarchar(50)	
UDF5	Userfield 5		nvarchar(50)	
UDF6	Userfield 6		nvarchar(50)	
UDF7	Userfield 7		nvarchar(50)	
UDF8	Userfield 8		nvarchar(50)	
UDF9	Userfield 9		nvarchar(50)	
UDF10	Userfield 10		nvarchar(50)	
UDF11	Userfield 11		nvarchar(50)	
UDF12	Userfield 12		nvarchar(50)	
UDF13	Userfield 13		nvarchar(50)	
UDF14	Userfield 14		nvarchar(50)	
UDF15	Userfield 15		nvarchar(50)	

3.3.1.1.4.8 DIH Quality Control

Imports Quality Control definitions.

DIH QC Inspection plan Header
DIH QC Inspection plan measurement position
DIH QC Order results
DIH Item QC Cross reference

Description	See	Table
Quality control Inspection plan - header	Edit QC inspection plan	BEAS_QSARTIKELHAUPT

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
ItemCode	QC Inspection Plan Id	X	nvarchar(50)	
GROUPID	QC Group		nvarchar(20)	
INFO	Information		nvarchar(255)	
MESSUNG_ALLE_STK	Sample all x Inventory Uom		decimal(9)	create all x warehouse units a

© 2026 Boyum IT Solutions A/S

				new sample NULL or 0 = create only one sample
MESSUNG_ALLE_MIN	Sample per minutes		decimal(9)	
QcPlanVersion	QC Plan Version		nvarchar(20)	
PERSERIALNUMBER	Per serial number		int(4)	if activ then create one sample per serialnumber Valid values: yes=1 no=0
RecordingType	Input		int(4)	Recording type Define, if you record data by Sample, Test or both Valid values: per sample=1 per Test=2 All=0
QcReleased	QC Plan Aproved		int(4)	 Valid values: yes=1 no=0
QcReleasedDate	QC aproved date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
QcReleasedFromUser	QC aproved by User ID		int(4)	
QcReleasedFromUserName	QC aproved by User Name		nvarchar(50)	
BITMAP	Picture		nvarchar(50)	

© 2026 Boyum IT Solutions A/S

COLORID	Color		int(4)	
MeasuringRelease	Sample Release		int(4)	Valid values: automatic=0 manual only if ok=2 manual allways=3
MeasuringESignature	Sample Electronic signature		int(4)	
ReleaseBatchnumStatus	Batch status release		int(4)	Valid values: manual=0 automatic=1 manual after release=2
TransferOnAllWhs	Transfer		int(4)	only transfer when ... 0=if item on a qc warehouse 1=allways Valid values: Only from QC Warehouse=0 From all warehouse=1
TransferOnlyReleased	Transfer release		int(4)	
OrderRelease	QC order Release		int(4)	Valid values: automatic=0 manual if ok=2 manual allways=3
OrderESignature	QC order electronic		int(4)	

© 2026 Boyum IT Solutions A/S

	signature			
OrderEvaluationMandatory	Valuation		int(4)	
TransferMandatory	Transfer / Batch release		int(4)	
CloseOrderAutomatic	QC order automatically close		int(4)	
MeasuringEvaluationMandatory	electronic signatur per Measurement mandatory		int(4)	
SCRIPT	Release Instruction		ntext(8)	
BILD1	Attachment 1		nvarchar(100)	
BILD2	Attachment 2		nvarchar(100)	
BILD3	Attachment 3		nvarchar(100)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
UDF5	Userfield 5		nvarchar(100)	
UDF6	Userfield 6		nvarchar(100)	
UDF7	Userfield 7		nvarchar(100)	
UDF8	Userfield 8		nvarchar(100)	
UDF9	Userfield 9		nvarchar(100)	
UDF10	Userfield 10		nvarchar(100)	
UDF11	Userfield 11		nvarchar(100)	
UDF12	Userfield 12		nvarchar(100)	
UDF13	Userfield 13		nvarchar(100)	
UDF14	Userfield 14		nvarchar(100)	
UDF15	Userfield 15		nvarchar(100)	

© 2026 Boyum IT Solutions A/S

Description	See	Table
Quality control Inspection plan - Measurement position	Edit measurement positions	BEAS_QSARTIKEL

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Data import is also possible if no header data is created. The header data is created automatically. During an update, positions can only be added or changed, but not deleted.

Field	Name	M	Type	Description
ItemCode	QS-Plan-ID	X	nvarchar(50)	
POS_ID	Internal position ID	X	int(4)	
POS_TEXT	QC measurement position	X	nvarchar(20)	
SORT_ID	Sort ID	X	int(4)	
RELEVANT	Check Relevant		nchar(1)	Valid values: Yes=J No=N
DRUCKKZ	Print on Certificate		nchar(1)	Valid values: Yes=J No=N
QS_ID	QC Order	X	nvarchar(50)	
BEZ	Methodology		ntext(16000)	
TYP	Type of input	X	nchar(1)	Valid values: Measurement= Attribut=L Text=T
BITMAP	Picture		nvarchar(50)	
COLORID	Color		int(4)	
WKZ_ID	Test tool		nvarchar(20)	
GROUP_ID	QC Group		nvarchar(20)	
SOLLWERT	Desired Value		numeric(4)	

© 2026 Boyum IT Solutions A/S

ME_ID	Unit of M.		nvarchar(20)	
MINIMAL	Minimum		numeric(4)	
MAXIMAL	Maximum		numeric(4)	
ManualRelease	Manually on ok set allow		int(4)	
ReleaseAutomatic	Aditional release deactivate		int(4)	
CardCode	Business partner		nvarchar(50)	
RuleId	Item rule		nvarchar(50)	
OnlyAllPoReceipt	Only all x documents		int(4)	
AllwaysAfterError	Always by error		int(4)	
OnlyAllMeasuredPosition	Only all x samples		int(4)	
SCRIPT	Script		nvarchar(0)	
QCPickList	Attribute Selection		nvarchar(255)	for measurement type "attribute" You can insert the attribut list, which the use can choose one attribut per line
BILD1	Attachment 1		nvarchar(100)	
BILD2	Attachment 2		nvarchar(100)	
BILD3	Attachment 3		nvarchar(100)	
UDF1	userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	
UDF5			nvarchar(100)	
UDF6			nvarchar(100)	
UDF7			nvarchar(100)	
UDF8			nvarchar(100)	

© 2026 Boyum IT Solutions A/S

UDF9			nvarchar(100)	
UDF10			nvarchar(100)	
UDF11			nvarchar(100)	
UDF12			nvarchar(100)	
UDF13			nvarchar(100)	
UDF14			nvarchar(100)	
UDF15			nvarchar(100)	

Description	See	Table
Quality control order results	Measurement samples	BEAS_QSFTPOS

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

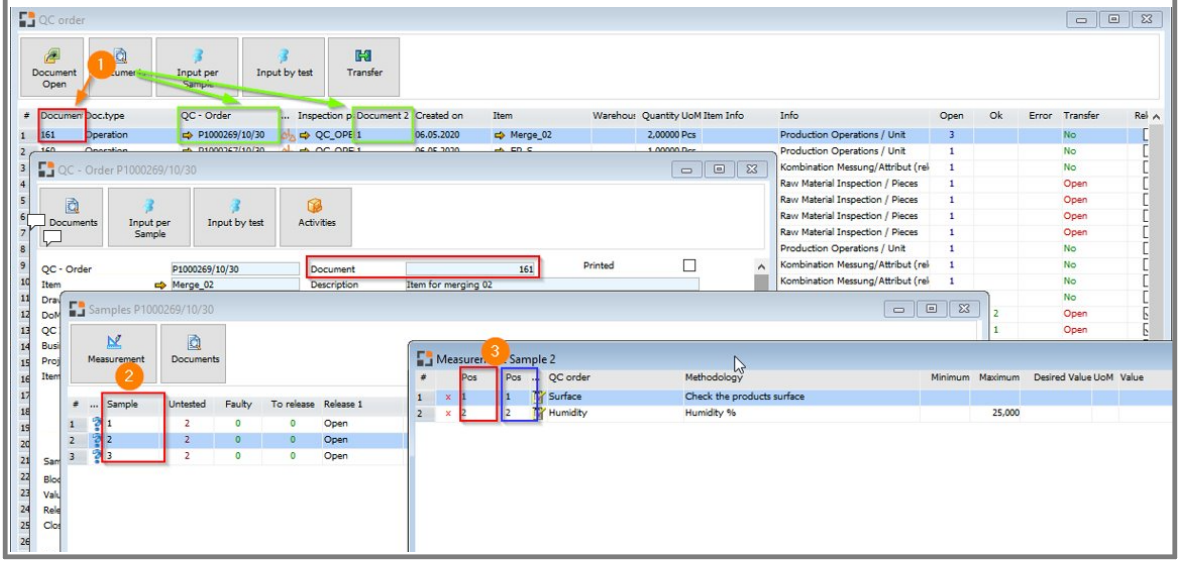
Field	Name	M	Type	Description
DocEntry	DocEntry	X	int(4)	
KND_ID	Sample Id	X	nvarchar(20)	
POS_ID	Position	X	int(4)	
MESSWERT	Value Number		numeric(4)	
MESSWERTC	Value Text		nvarchar(255)	
ValuationId	Valuation ID		nvarchar(20)	
ValuationText	Valuation Text		nvarchar(255)	
SPERRGRUNDID	Blockage Reason Id		nvarchar(20)	
SPERRGRUND	Blockage Reason Text		nvarchar(0)	
OK	Ok - ID		nchar(1)	valid values for - Yes: Y,J,1 - No: N,0 Valid values: Yes=J No=N
Release	Release		int(4)	valid values for - Yes: Y,J,1 - No: N,0

© 2026 Boyum IT Solutions A/S

				Valid values: Yes=1 No=0
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	

- Import results of QC order

The following information is mandatory (***see*** image):
- Document number (red) or, alternatively, QC order + Document 2 (green)
- Position: Pos_ID (red) or Pos_text (blue)



Description	See	Table
Quality control Item - Cross reference	Item Master > Quality control link	BEAS_QSVERWEIS

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
NR	Number	X	int(4)	
ItemCode	Item	X	nchar(50)	

© 2026 Boyum IT Solutions A/S

CardCode	Supplier		nchar(20)	
TYP	Type		nchar(1)	Valid values: Alle= Wareneingang=W Fertigung=E VK-Retoure=R berschreitung Haltbarkeitsdatum=C Bestandsumlagerung=T Manuell einbuchen=M Eingangsrechnung=X Einkaufretoure=Y Eingangsgutschrift=Z Ausgangsgutschrift=O Lieferung=P Ausgangsrechnung=Q Storno=S Manuell=U
DATE_FROM	Date From		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
DATE_TO	Date To		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not

© 2026 Boyum IT Solutions A/S

				working.
QUANTITY_FROM	Quantity From		numeric(4)	
QUANTITY_TO	Quantity To		numeric(4)	
QSAUFTRAG	QC Work Order	X	nvarchar(50)	
INFO	Info		ntext(16000)	
UDF1	Userfield 1		nvarchar(30)	
UDF2	Userfield 2		nvarchar(30)	
UDF3	Userfield 3		nvarchar(30)	
UDF4	Userfield 4		nvarchar(30)	
OnlyAllPoReceipt	only All Documents		int(4)	
AllwaysAfterError	always by Error		int(4)	
RuleId	Item Rule		nvarchar(50)	
SCRIPT	Release Instruction		ntext(16000)	
QcInfo	QC order Information		ntext(16000)	
WhsCode	Warehouse		nvarchar(20)	
Version	Version		nvarchar(20)	
SORT_ID	Sorting		int(4)	
BITMAP	Picture		nvarchar(50)	
COLORID	Color		int(4)	

3.3.1.1.4.9 DIH Transactions (Production, Bookings, Manual Posting etc.)

Material transactions are defined in a definition file: "Transaction plan lines".
Different transaction types like receipt and issue, goods receipt etc. can be executed here.
The transaction type is indicated in the "Transaction Type" field.

The following transaction are supported:

- Work order Receipt / Issue
- Manual Receipt / Issue

Note: The system creates one document PER import line.
This means: If you import 200 lines, the system will create 200 documents.

© 2026 Boyum IT Solutions A/S

See also DIH Material management transaction plan lines.

All the fields in this table are mandatory related to document type and item management method.

Field	Value
Transaction Type	Define the type of transaction type **Transaction Typ** / **Description** WOISSUE – Production – Material issue (or "WOIM") WORECEIPT – Production – Material / Assembly receipt ISSUE – manual Issue RECEIPT – manual receipt
Link Document Type	"WO"
Link Document	Work order Number (BEAS_FTHAUPT.BELNR_ID)
Link Line 1	Work order Position (BEAS_FTPOS.BELPOS_ID)
Link Line 2	Only for Bill of Material: Internal Bill of Material Position (BEAS_FTSTL.POS_ID) For assemlby: Don't define it or 0
ItemCode	The Item Number (Assembly: BEAS_FTPOS.ItemCode, Bill of Material: BEAS_FTSTL.ART1_ID)
Quantity	the Issue Quantity in Inventory UoM
WareHouse	The Warehouse from the Item OWHS.WhsCode
Bincode	Bincode if warehouse is a bin-managed warehouse Supported: SAP, WMS and Beas bin-management If this is a WMS or Beas bin-managed warehouse, the bin code is mandatory.
RFID / LUID	The RFID (beas) or LUID (WMS) Number for current Bin code
DistNumber	The visible Serial/Batch Number Normal Item: Empty Batch Administration: OBTN.DistNumber Serial Administration: OSRN.DistNumber

© 2026 Boyum IT Solutions A/S

Field	Value
	If this is a work order receipt or purchase receipt and batch number generation is activated, it is not mandatory to fill it.
SysNumber	Only for Issue documents Alternative to DistNumber (visible Batch/Serial Number) you can use the internal System Number. (OBTN.SysNumber, OSRN.SysNumber) Don't define both. Don't use it for receipt documents.
Batch Number	**Not supported anymore**. Please use DistNumber or SysNumber
Price	⊟ Price per Unit Only for RECEIPT If a price is defined in the first import line, the system activates the Price Import function automatically. If the first entry is 0, the system uses the standard valuation for all lines and ignores any price definition in the subsequent lines. ***Example:*** RM1 has average price 3 USD RM2 has average price 4 USD Import defintion RM1: 0.0 USD RM2: 4.5 USD System import RM1: 3 USD (Average price) RM2: 4 USD (Average price) Import definition RM1: 1.0 USD RM2: 4.5 USD System import RM1: 1 USD (Price from Import) RM2: 4.5 USD (Price from Import)

© 2026 Boyum IT Solutions A/S

Field	Value
	Price per Batch / Serial number: Normally, the system imports all batches for one item in one line If the batches have different prices, the system will create a receipt line per Batch. The system can define the different batches only in this way. ***Example 1:*** Item RM_B Batch A: 3 USD Batch B: 3 USD The system creates a receipt document in the following way: Item RM_B Price 3 USD |_ Batch A, Batch B Item RM_B Batch A: 3 USD Batch B: 4 USD The system creates a receipt document in the following way: Item RM_B Batch A Price 3 USD Item RM_B Batch B Price 4 USD

Important:

The data must be checked for correctness before the import. There is no further check in the import process.

The values must be checked in the Import Preview function or all necessary checks must be defined in the Source – Target – Link.

Complete list:

Field	Name	M	Type	Description
LineType	Transaction Type	X	nvarchar(20)	transaction line per line. Import: it's

© 2026 Boyum IT Solutions A/S

				mandatory Valid values: issue work order material=WOISSUE receipt work order assembly or material=WORECEIPT issue work order material (compatible) =WOIM receipt work order assemlby or material (compatible) =WORM Manual receipt=RECEIPT Manual issue=ISSUE
DocDate	Document Valid Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
Notes	Documetn remarks		nvarchar(255)	
CardCode	Business partner		nvarchar(20)	
Project	Project		nvarchar(20)	
BASE_DOCTYPE	Link Document Type		nvarchar(20)	Type of base document Example: WO = Workorder
BASE_DOCENTRY	Link Document		int(4)	Document entry

© 2026 Boyum IT Solutions A/S

				Example: work order = BEAS_FTHAUPT.BELNR_ID
BASE_LINENUM	Link Line 1		int(4)	Document entry Example: work order position = BEAS_FTFTPOS.BELPOS_ID
BASE_LINENUM2	Link Line 2		int(4)	Document entry line 2 Example: work order bom position = BEAS_FTSTL.POS_ID
ItemCode	Itemcode		nvarchar(50)	
Quantity	Quantity	X	decimal(9)	
WhsCode	Warehouse		nvarchar(20)	
BINCODE	Bincode		nvarchar(20)	
RFID	RFID		nvarchar(20)	
Version	Version		nvarchar(20)	
DistNumber	DistNumber		nvarchar(40)	The "visible" Batch- and Serial number
SysNumber	Internal Batch/Serial number		int(4)	Describe the internal batch/serial number you can define this in issue documents for define exact correct Serial/Batch Number

© 2026 Boyum IT Solutions A/S

MnfSerial	Batch attribute 1		nvarchar(40)	
LotNumber	Batch attribute 2		nvarchar(40)	
InDate	date of entry		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
MnfDate	Manufacturing Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ExpDate	Expir. date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
PERS_ID	personnel number		nvarchar(20)	
USER_ID	User WEB User		nvarchar(20)	
Price	Price		decimal(9)	Define the Price in defined currency Import information: Work order issue/receipt: not supported Manual Issue: only if "Use Perpetual Inventory" is disabled Manual Recept

© 2026 Boyum IT Solutions A/S

				with follow rule: If in first import line a price is defined, the system will use the prices defined in the import lines. If no price defined in first line, the system will ignore prices from all lines.
Currency	Currency		nvarchar(5)	
STATION_ID	Work station		nvarchar(50)	
BatchNum	Batchnumber		nvarchar(1024)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	

Description	See	Table
Material management - transaction plan lines	WO Material issue, Manual issue, Manual receipt	BEAS_PLANDOCUMENT_LINE

For detailed information on how to import ***see*** Data Integration Hub and Source-Target-Link.

Field	Name	M	Type	Description
LineType	Transaction Type	X	nvarchar(20)	transaction line per line. Import: it's mandatory Valid values: issue work order material=WOISSUE receipt work order

© 2026 Boyum IT Solutions A/S

				assembly or material=WORECEIPT issue work order material (compatible) =WOIM receipt work order assemlby or material (compatible) =WORM Manual receipt=RECEIPT Manual issue=ISSUE
DocDate	Document Valid Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
Notes	Documetn remarks		nvarchar(255)	
CardCode	Business partner		nvarchar(20)	
Project	Project		nvarchar(20)	
BASE_DOCTYPE	Link Document Type		nvarchar(20)	Type of base document Example: WO = Workorder
BASE_DOCENTRY	Link Document		int(4)	Document entry Example: work order = BEAS_FTHAUPT.BELNR_ID
BASE_LINENUM	Link Line 1		int(4)	Document entry

© 2026 Boyum IT Solutions A/S

				Example: work order position = BEAS_FTFTPOS.BELPOS_ID
BASE_LINENUM2	Link Line 2		int(4)	Document entry line 2 Example: work order bom position = BEAS_FTSTL.POS_ID
ItemCode	Itemcode		nvarchar(50)	
Quantity	Quantity	X	decimal(9)	
WhsCode	Warehouse		nvarchar(20)	
BINCODE	Bincode		nvarchar(20)	
RFID	RFID		nvarchar(20)	
Version	Version		nvarchar(20)	
DistNumber	DistNumber		nvarchar(40)	The "visible" Batch- and Serial number
SysNumber	Internal Batch/Serial number		int(4)	Describe the internal batch/serial number you can define this in issue documents for define exact correct Serial/Batch Number
MnfSerial	Batch attribute 1		nvarchar(40)	
LotNumber	Batch attribute 2		nvarchar(40)	
InDate	date of entry		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour

© 2026 Boyum IT Solutions A/S

				format Time format with am/pm not working.
MnfDate	Manufacturing Date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
ExpDate	Expir. date		datetime(8)	best date format: yyyy/mm/dd hh:mm in 24 hour format Time format with am/pm not working.
PERS_ID	personnel number		nvarchar(20)	
USER_ID	User WEB User		nvarchar(20)	
Price	Price		decimal(9)	Define the Price in defined currency Import information: Work order issue/receipt: not supported Manual Issue: only if "Use Perpetual Inventory" is disabled Manual Recept with follow rule: If in first import line a price is defined, the system will use the

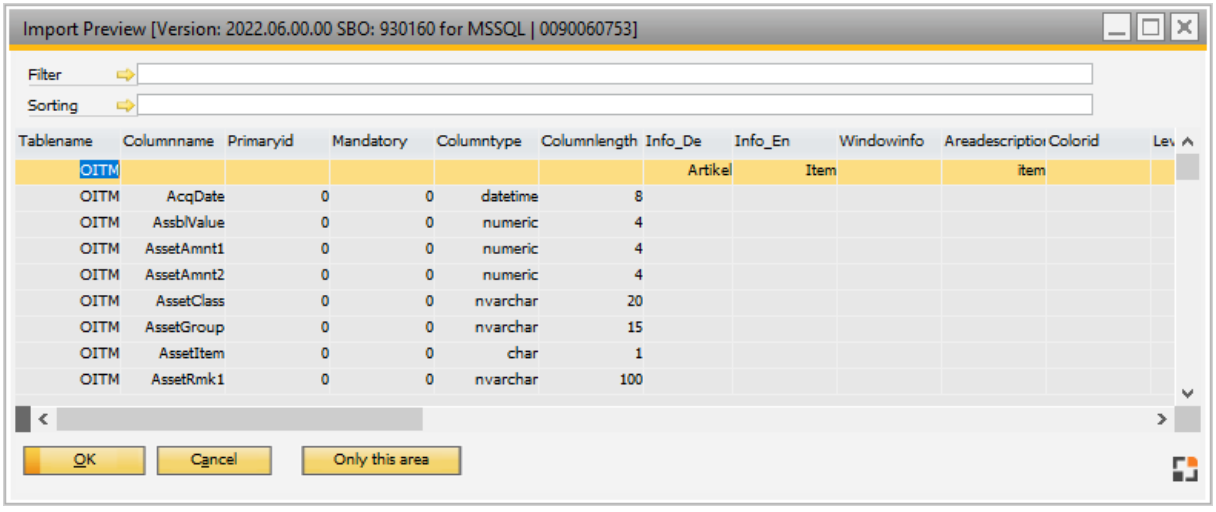
© 2026 Boyum IT Solutions A/S

				prices defined in the import lines. If no price defined in first line, the system will ignore prices from all lines.
Currency	Currency		nvarchar(5)	
STATION_ID	Work station		nvarchar(50)	
BatchNum	Batchnumber		nvarchar(1024)	
UDF1	Userfield 1		nvarchar(100)	
UDF2	Userfield 2		nvarchar(100)	
UDF3	Userfield 3		nvarchar(100)	
UDF4	Userfield 4		nvarchar(100)	

3.3.1.1.5 Preview

PATH: Administration > Data Import/Export > Data Integration Hub > **Open** Import definition > **Preview** button.

In the Preview, the file to be imported is displayed as a list.



Window import_ defpreview.psr

- XML-files are also shown as a list

  Each tag in the XML-file has a separate column. Accordingly a double-designation is possible.
  If the cursor is on the title, the structure name is shown.

© 2026 Boyum IT Solutions A/S

Example: `<item><itemcode>A001</itemcode><item>`
Column name = `itemcode`
Structure column name = `item#itemcode`
Area = `item`
Content = `A001`

Options in the right-click menu:

Option	Description
Filter	The filter can be defined by right-clicking on the header row. For XML-files proceed as follows to define the structure area to be imported: 1. Select the rows to be imported. 2. Click the **Only this area** button. All other rows are hidden outside this area. Use the reference arrow to define a filter manually.
Sorting	Defines the sorting of the table to import right-clicking. Use the reference arrow to define sorting by Drag&Drop.
Table	In the table all fields are displayed that are defined in the import file. Double-click on any title to change the text. Right-click and delete all empty columns: all columns are deleted, which have no entry in the currently selected row.

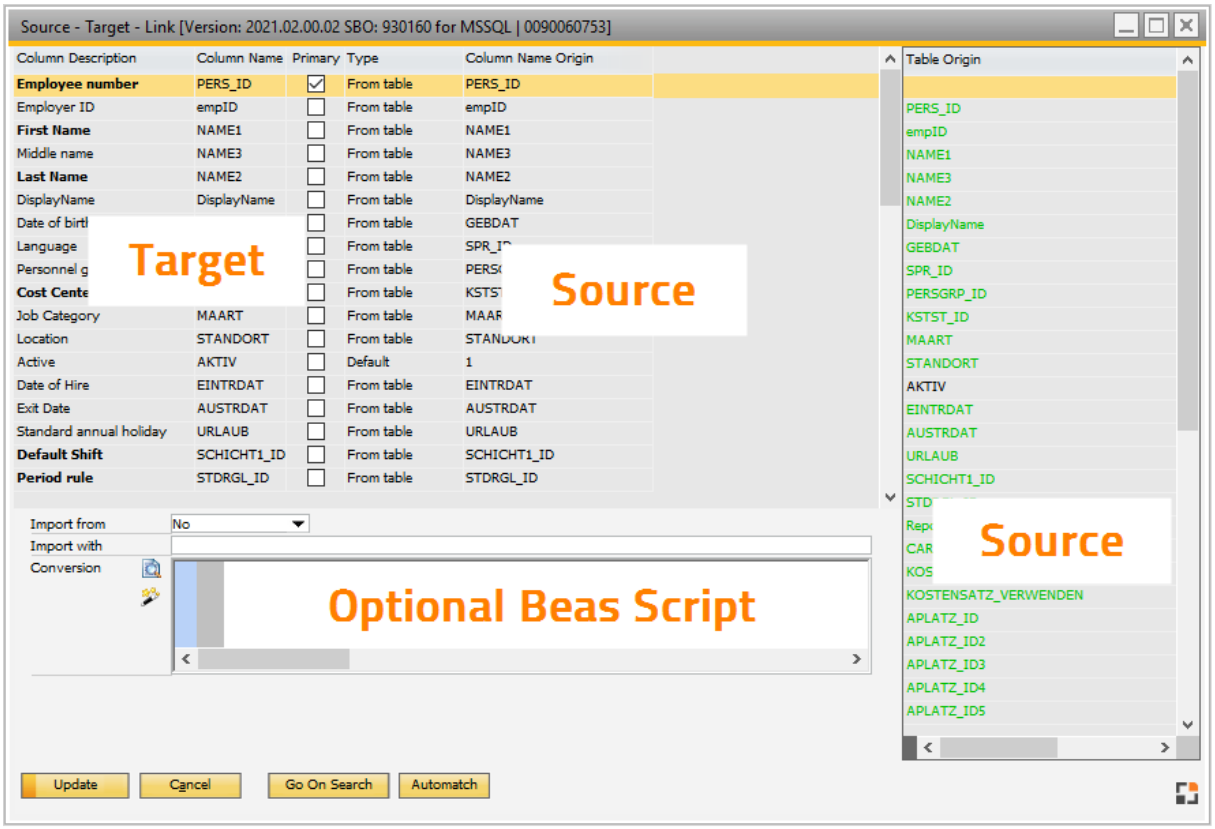
3.3.1.1.6 Source -Target - Link

PATH: Administration > Data Import/Export > Data Integration Hub > **Open** Import definition > **Source - Target - Link** button.

Target field and source field can be linked in this window.

Important: The target fields are on the left side and the source fields are on the right side.

© 2026 Boyum IT Solutions A/S



Window import_fields_browse.psr

All available target fields and their details are displayed. A source field can be assigned to a selected target field from the right-side list. The assignments are displayed in the last column.
A value from the source table, a default value or a calculated value must be transferred to the target field.

The **Import preview** window shows the result.

Field	Database column of the target field
Column description	⊟ Description of the target field Displays the target field name. Mandatory columns are displayed in **bold**. When you hover over the description, Beas displays more information about the field.
Primary	If check mark is active, the field is a key field in the database. Only for information.
Column name	Database field name
Type	⊟ The type of assignment

© 2026 Boyum IT Solutions A/S

	From table: Directly apply type from the source "Import column". **SQL instruction**: Execution of the SQL-instruction, which was defined in the "Import column" **Default**: The default value was applied directly. **No**: No transfer

Column Name Origin	Indicate what to import
	Type table: Field name from the source table or field name in placeholder "<" and ">", for example <description1> <description2>. All default Beas placeholders as well as formatting information are available.
	
	From the right-click menu a source field can be selected directly.
	Type SQL: Select-instruction. The field name of the source table may be inserted as a placeholder.
	Type default: The text entered here is inserted directly as a number.
	
	Note on data types:
	Numbers
	In script, all values are used with the Windows regional settings.
	Germany: 300,25
	USA: 300.25
	It is important to ensure that these values match the Windows regional settings.
	
	Date
	Date should be in the following format:
	`yyyy/mm/dd`
	or
	`yyyy/mm/dd hh:mm`
	otherwise the import can be incorrect.
	
	Date
	`yyyy` = Year, four digits
	`mm` = Month, two digits
	`dd` = Day, two digits
	
	Time

© 2026 Boyum IT Solutions A/S

	`hh` = Hours two digits, 24h format `mm` = Minutes two digits If date or number are not available in the correct format, you can use the conversion field to convert the value.
Max. length	Max. length of a character string The max. length of a character string can be indicated. Value 0 indicates that there is no maximum value. Setting the maximum length is usually not necessary, because Beas controls these automatically: **Automatic control:** If the target field is a mandatory field, the maximum length is exceeded, the data row is not applied and an error is reported. For all other fields the exceeding length is cut off.
Conversion	The value can be converted, changed or checked using a script BeasScript can be included, which can change or check the source. The transfer value is in the value variable and can also be changed. `setvar=value=<today,yyyy/mm/dd>` Returns the date. If the field is selected and you double-click on an item in "table origin", Beas inserts the field in the conversion field. The assistant and extended editor helps to define the script. All existing variables or window information (of the window from which the import is accessed) can be used. **Special variables:** `<importfile>` — File name, if a file is imported. For example, the item number can be encrypted. `<importrequestid>` — The RequestId, which is stored in the Import-Settings - Extended. *(beas 9.2 PL: 01)*

© 2026 Boyum IT Solutions A/S

<import.[columnname]>	On a column of the source file directly, if a value has to be filled that is dependent on another column.
	`if <import.ite#bom#quantity> n> 5 th`
	`  setvar=value=A`
	`end if`

Note: The import process does not allow message boxes, prompts or other modal forms, which can block the import process.

Example: Convert a value

Converts the source to "M", when this is "Y", otherwise this is not changed.

```
if <value> = Y then
  setvar=value=M
end if
```

The return value true/false can determine, whether the data row should be applied.

Example: Replace dot with comma

Regional settings: comma is the separator:

```
tools=globalreplace=value=.=,
```

10.5 is converted to 10,5

Regional setting: dot is the separator, but at import a comma should be used:

```
tools=globalreplace=value=,=.
```

Example: Cancel in case of a certain value

Stops the import, if the value begins with 1:

```
if <value,left 1> = 1 then
  return failure
end if
```

All source fields can be accessed. For this, the "<import.[feldname]>" placeholder is used.

Example: Determine item group

The "itemgroup" source field is available.

Material group should be "100", if "item group" is 50, otherwise material group 200 should be used.

To achieve this enter the following in "Material group" field at the test script:

© 2026 Boyum IT Solutions A/S

```
if <import.itemgroup> = 50 then
  setvar=value=100
else
  setvar=value=200
end if
```

Note:

For primary fields (example: item number for item master data) the system read the value 2 times. Means: The script behind this is executed 2 times.

Buttons

Button	Description
OK/Update	After modifying any field, you can update the changes and close this window.
Cancel	Close window without any changes.
Search	Search
Go on search	Continue searching
Automatch	With this button you can create an automatic match between fields defined in the import file with fields defined in the import. ***See*** Automatch function.

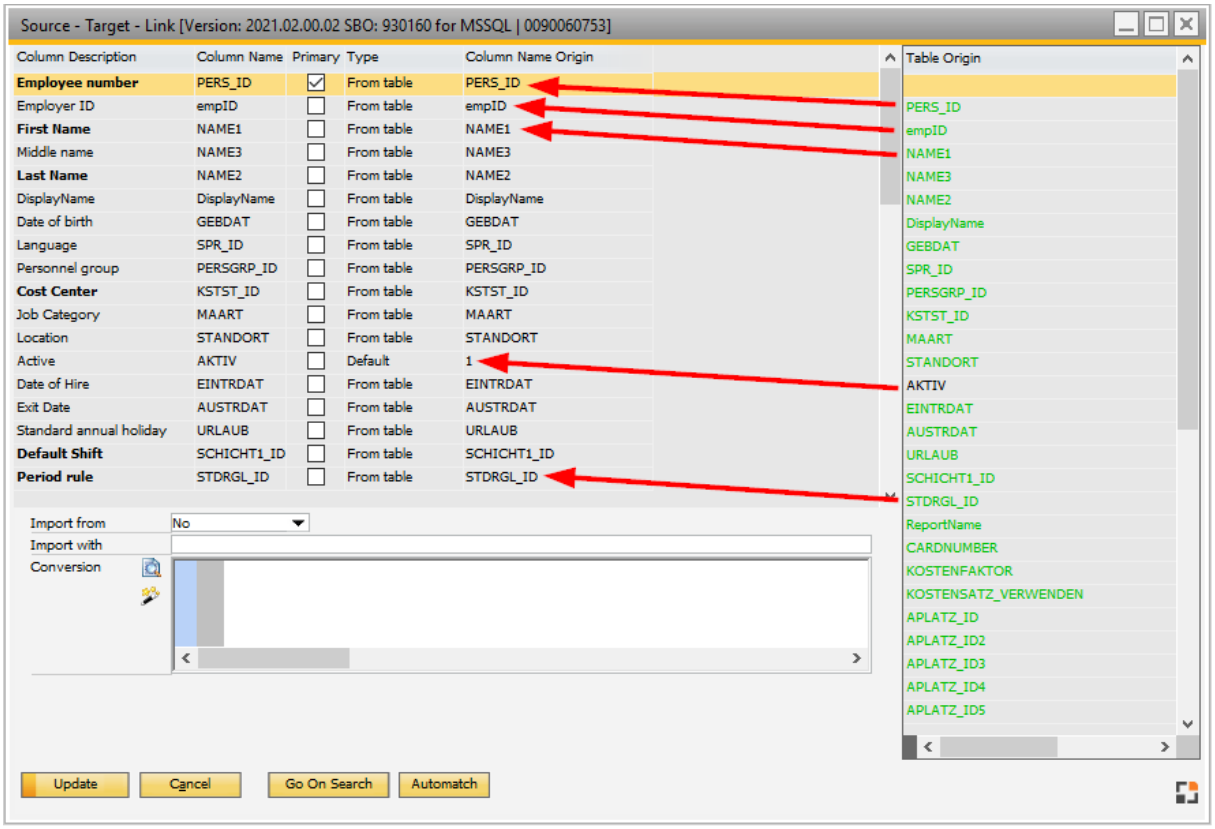
3.3.1.1.6.1 Automatch

After pressing the **Automatch** button in the Source-Link-Target window, the system attempts to link the source table to the target table automatically.
Therefore, the system checks if the field name (or the description) matches the field in the target table.

- If an entry is found, the field is automatically linked.
- Fields that are already linked, will not be changed or deleted.
- Fields that are linked, will be displayed in **green**.
- Fields that are not linked, will stay in **black** color.
- Fields that are assigned more than once, will be shown in **red**.
- Fields with a "_" in the name can also be matched.

© 2026 Boyum IT Solutions A/S

NOTE: Some fields in Source-Target-Link are pre-defined as "Default" and with a fix value. If the user wants to import the value of these fields from the table, the fixed value needs to be deleted before starting the Automatch.



Window import_fields_browse.psr

3.4 Utility programs

Database test

Beas Server Management

Program Group Administration

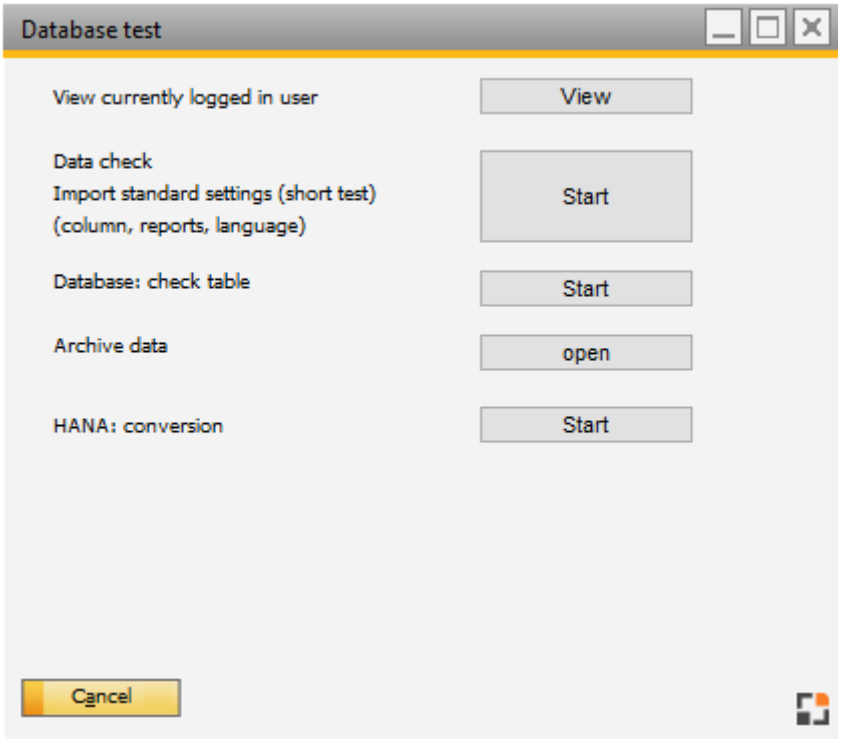
Data Protection Tools

3.4.1 Database Test

PATH: Administration > Utilities > Database test.

With this function, you can perform a database test.

© 2026 Boyum IT Solutions A/S



Window system_ dbtest.psr

ATTENTION: Manual Database modification is **not** allowed! If the user modifies the database manually, it can generate problems in the database test functionality.

The following functions are available under database test:

Function	Description
View currently logged in users	Displays which users are currently logged on to the SQL database server. Note: It is not available in HANA version.
Data check, Import standard settings (short test) (column, reports, language)	The content of the tables is checked to determine whether the relevant settings or contents are correct. This test is performed automatically during an upgrade and can also be started via **Administration Utility programs > Data Check**. For more information, ***see*** Data Check. Furthermore, defaults as column settings, standard reports, current Terminal WEB-version are imported. User-specific settings are not affected by this.
Database: check table	Database: check table Another component of the upgrade or setup process. The system checks whether the tables and UDFs used by Beas are present. Missing tables or UDFs are automatically created.

© 2026 Boyum IT Solutions A/S

	Beas does not work with UDTs (SAP Business One User Defined Tables), but instead creates all tables directly with the prefix "beas_" an. If Beas tables have been extended manually, the extension is NOT removed. The structure of all tables is defined in the db.ini file. If you have created a customer-specific db.ini of your own and stored this in the project directory, this is also executed during the database test. ***see*** Customer-specific adaptations After a SAP Business One database test (upgrade) or a change to the data structure (creation of further UDFs in SAP), the Beas database test must be performed so that the Beas tables can be adapted. **"Delete unused columns" option** Some table columns are not longer needed as they have been replaced by new columns and are no longer supported by Beas . If the option is set, all table columns previously supported by Beas and now no longer needed are removed. Configuration of db.ini ***see*** Structure of the db.ini For database documentation ***see*** Documentation
Archive data	Call up Data archive
HANA: conversion	Preparation for MSSQL – HANA – Conversion (Only in MSSQL Version) Make DB convertible using HANA Migration tool: Convert all Table and Column Names to the correct HANA-compatible variant. If you want to convert your MSSQL – Database to HANA, preparations are necessary. Please start this function before migration. This function deletes some indexes and constrains.

© 2026 Boyum IT Solutions A/S

	Necessary steps: 1. Start this function. 2. Read SAP documentation on migration and start migration. 3. Check if all tables are on HANA side. 4. Download latest Beas version and install it. 5. Start Beas and start the "Database Test" and "Check table" functions. 6. Check if everything is working as intended. **Note:** We cannot guarantee that the conversion will work correctly. Perform a deep test before you start with the life system. Check configuration, accounting and related areas. Check the complete work flow and all customizations. **Customizations, Reports, Templates** These are not always HANA-compatible. Convert all SQL statements in customizations in the HANA Version and test every customization. Custom Crystal reports for MSSQL are not compatible with HANA. a) Define correct connection to the HANA Server. b) Check the SQL statements. All statements should be HANA-conform. c) Templates are not compatible after migration, user must create query to HANA or recreate them.

3.4.1.1 Data check

Beas includes a data check function which checks all relevant data for consistency.

As Beas can only function correctly if data is consistent, all errors that occur during the data check must be processed and rectified in advance.

The data check is started for example
- if a program update is performed
- via **Administration > Utility programs > Data Check**

© 2026 Boyum IT Solutions A/S

The data check is performed immediately. The Beas data check always creates messages using the Beas message system. As well as displaying the error, the message window offers help or appropriate interactive analyses. Messages from data check cannot be created as SAP activity. The message window is opened automatically if messages are output, and it can be opened afterwards via **Administration > Utility programs > Data Check**.

If there are data errors that could affect the MRP run or APS material check, a warning is displayed when starting the MRP run, although it will still start in most cases.

The following tests are carried out:
- Data content check
- Check and extension of Procedure SBO_SP_TransactionNotification
- Plan times of all resources and resource groups are calculated
- Standard calculation schema is checked and corrected if necessary
- Manufacturing Position: The switch "Disposition", "Order reporting", "Material posting" and "Consideration of scheduling" are checked and corrected if necessary
- Operation types are checked and adjusted, installed, or corrected
- Quality control orders: cross-references are checked and corrected
- Print documents: The table beas_document_header / beas_document_line are rebuilt. If necessary, re-defined UDF's are added.
- WEBAPP: standard Web applications are imported
- Several default values are set

Via "news" at any time the result of the test can be viewed. After a new check, previous results are deleted from the message list and new ones are inserted. ***See*** news
At the end of a message the message number is displayed. A blue question mark indicates that additional information is available on that topic. Click the icon.
Use the button "**Close activity**" to hide selected messages. Multi-selection is supported.

In the following list all possible messages are summarized:

Message	Meaning
tnsfnfg04442	Beas adds various extensions to the procedure on SBO_SP_TransactionNotification. Details These values are pasted starting from the text '- ADD YOUR CODE HERE' . If this text is not found, Beas cannot enter its extensions. This can be the case if the procedure has been manipulated.

© 2026 Boyum IT Solutions A/S

	In this case please restore the original or insert the placeholder at a suitable point. Precise structure: [TAB]ADD[TAB]YOUR[TAB]CODE[TAB]HERE There may be no spaces, only TAB characters. Re-run data check. Omitting the data check can lead to the following problems: - No control in warehouse management at bookings into negative stock - No control of reservations; the reservation function may work incorrectly
tnsfnfg04443	Beas adds various extensions to the procedure one SBO_SP_TransactionNotification. In this case, an SQL error has occurred. More information in the messages when you click "View".
tnsfnfg04444	Beas adds various extensions to the procedure one SBO_SP_TransactionNotification. This process has not been carried out - or the procedure does not exist.
checkdb05l044	Extended error notification system enabled: **Configuration Wizard > System > Extended Error Messages: SAP activity** In this case, a business partner needs to be defined - switch below, "activity business partners" because the SAP Business One activity-system requires the disclosure of a business partner. If nothing is done, no activities are generated.
checkdb05lacc44	In a perpetual inventory system, the WIP accounts must be set up. Affected is the WIP stock account and the WIP inventory variance account. After creating accounts, set up in **Configuration wizard > Production > Valuation and booking of assembly > Account Determination > Define**

© 2026 Boyum IT Solutions A/S

	WIP accounts > "START" button, or press the button directly in the message. Account determination is done automatically and must be checked afterwards. If these are not specified, no postings are possible in the production area.
checkdbwialacc44	In **Configuration wizard > Production > Valuation and booking of assembly > Account Determination > Define WIP accounts > "START"** button, the WIP accounts are defined. Faulty or nonexistent accounts had been deposited and must be corrected. If no correction is made, no postings are possible in production.
blockzeroq1dbc	"Block negative stock" has been disabled. When working with negative values, no MRP is possible. All planning functions in Beas are blocked as a result. Action: re-activate this switch! Features not working correctly when negative stock is enabled: - Correct stocktaking - Warehouse management - Reservation Function - Batch Management - Serial Number Management - Material Requirements Planning We strongly advise not to work with negative stocks! Setup: **Administration > System initialization > Document settings > Block negative inventory by**: enter "Company"
ass55manageonhnd	Negative stocks are present in the system. as a result, planning functions will put out incorrect values. To keep data approximately correct, Beas does not consider negative values in the planning functions. Action: correct existing negative stocks and bock the negative posting facility completely. Setup: **Administration > System initialization > Document settings > Block negative inventory by**: enter "Company"

© 2026 Boyum IT Solutions A/S

ass55itemdfltwh	For several items the default storage is not defined. This is required for several standard functions. Action: Edit item and set the standard warehouse. This is done in the **Item master > inventory data tab > default warehouse** If the default warehouse is not defined, this will result in the following problems: - Incorrect results in order recommendation report - WIP account determination is not possible - Manufacturing: backflushing not possible
ass55wbz93	For several items no lead time is stored. If there is a scheduling ID, a lead time is also required. Otherwise there will a wrong requirement date in the order recommendation report For assemblies, this can be done automatically if routings are stored. Enable: **Item structure > right mouse button > third tab in right-click menu > compute resources > calculate lead time.**
ass55w5z93	For several items a faulty material group is stored. If no material group is stored, this can lead to erroneous results in the calculation. Material groups are defined under **Administration > Setup . Inventory > Material group** and deposited in the **Item master > Material Group.**
ass55w5del	Incorrect item number. There are item numbers with illegal characters. Under no circumstances may be used: spaces (Asc 32) and apostrophe (Asc 39). This could lead to severe program errors in any area.
ass55wbz9d	For several items of type PURCHASE PART a faulty or no scheduling ID is stored. Please check scheduling in the item master, see "breakdown". Without correction, the order recommendation report works incorrectly.

© 2026 Boyum IT Solutions A/S

ass5dsbz9d	Several items are defined as manufacturing parts, without having the scheduling ID. Please set the switch "break down" for the affected items. Without correction, the order recommendation report works incorrectly.
ass55item1unitstl	For several BoM items a value is missing for quantity factor. Without correction, this can lead incorrect calculations, for example in - Precalculation - Manufacturing - Order recommendation report Please correct corresponding BOM items. **Edit BOM > Quantity field "per"** Affected in the bill processing is the "ever" (the amount field, after the word "each")
ass55itemunitvb	For several items warehouse unit or consumption unit is missing. Without correction, this can lead to incorrect calculations in - Precalculation - Manufacturing - Order recommendation report Please make sure to deposit the correct units. **Item master data > Tab "General." > orange arrow for "Production UoM"** - Input Unit.
ass55itemunitbom	In several item part lists quantity units are stored, which are not stored in the data base. Without correction, this can lead to incorrect calculations, etc. in - Precalculation - Manufacturing - Order recommendation report Action: there are two possibilities:

© 2026 Boyum IT Solutions A/S

	a) Enter missing units under **Administration > Setup > Inventory management > Units of measurement** b) Edit BoM - behind the quantity" field there is the field for the unit c) Edit **item master > "General" tab > orange arrow after "Production UoM"**
ass55item1unitvb	In several BoMs unknown item numbers are stored, or item numbers are missing. These entries can lead to additional errors: - No consideration in order recommendation report - No postings possible Beas offers an automatic correction.
ass55itemunitvbm	In item entries Inventory / Production UoMs are defined, which have no conversion formula. Result: - Incorrect calculation in order recommendation report. For this reason, the calculation is disabled. - Erroneous postings Two possibilities to solve this problem: a) enter conversion formula under **Administration > Setup > Inventory management > units of measurement** b) Correct units o.M. in **Item master > "General" tab > orange arrow after "consumption unit"**
assv1w5del	Item Version Items that have item version(s) and are neither batch- nor serial-managed are not supported. For MRP to run correctly, remove the item version from these items or convert them to batch-managed items. (assv1w5del) Details Beas does not support Item Version control for non-batch/serial managed items. The button "**Edit**" displays all non-batch/serial managed items with item version number.

© 2026 Boyum IT Solutions A/S

	Delete the item Version information or convert this item to a batch managed item. ***See*** how to fix the problem
assv2w5del	Item Version **IMPORTANT:** Items that have item version(s), are neither batch- nor serial-managed, and have separate bill of materials are not supported. For MRP to run correctly, remove the item version from these item or convert item to batch-managed items. Note: You must fix this before using MRP. Details Beas does not support Item Version control for non-batch/serial managed items. You have some items with separate Bill of Material settings. MRP does not support this for this type of items and ignores the defined Bill of Materials definition, which results in wrong calculation. The Button "**Edit**" displays all non batch/serial managed items with the setting "separate BoM" Note: It is mandatory to fix this. **How to fix the problem:** - delete item version information and change setting "Administration" to "Default" - convert item to a batch managed item **How to convert a normal item to batch managed item:** 1. Clean the inventory (it must be 0). 2. Delete all reservations and transfer requests. 3. Change the item to batch-managed item. 4. Insert old inventory over receipt function with a standard batch number or use version Number as Batch Number. Positive effect: You can see the inventory per item version.
calccheck303245	With Beas 2008-0-11-22 the connection between Offer/Customer order and the Precalculation has been changed. With this repair program the connection can be reestablished for existing documents. The repair should always be performed.

© 2026 Boyum IT Solutions A/S

repcheck03245	The communication module has been installed. There are standard reports are available, which need to be imported once and which can be changed or adapted. It is recommended to import these reports.
qscheck13245	Quality control order - quantity units: For a correct display of the measurement positions a unit needs to be deposited. Otherwise, no decimal places are displayed. Beas has issued a correction program to fill default values. 1. Click on edit to open the editing window. 2. Enter a valid unit of measure 3. This will be entered to all measurement positions, which do not have stored a unit of measure.
fagcheck03245	External operations: The data structure has changed. Costs of external operations are now stored in a different field. Existing entries have to be adjusted. Beas can perform the correction automatically. If no correction is made, pre- and post-calculation cannot calculate correctly, valuation methods lead to erroneous results and to erroneous account postings.
amgmet0435	In item master (OITM) there are entries in which "mngmethod " is not filled. It may be that these items cannot be edited or posted. Click on "Edit" to perform an automatic correction.
ass75itemunitvbm	Order related items in storage orders. There are make to stock work orders, in which order-related items are stored. For a correct calculation in order recommendation report, these work orders need a reference to customer orders. Click EDIT to open the list of all affected positions.
ass55waoapl00	Work order - work sequence 0. There are work orders with a work sequence containing a position 0. This position will not be processed correctly and should therefore be deleted. Click EDIT to open the list of all affected positions.
ass55woabgkzft	Several production items are not completed. There are unfinished work item in closed work orders. This condition can lead to problems. Click EDIT to display production list with all affected work orders. These need to be re-opened. **Open work order > right-click > select "Open"**. Then it can be closed again. The

© 2026 Boyum IT Solutions A/S

	associated components are also closed and the necessary closing entries (WIP Account crediting) are performed.
amgmet1pers32	Links to Human resource master. The Beas and SBO HR master are now linked. There are some entries in which the connection is not correct. The link here may be performed automatically.
ass35afolink	Wrong BoM links. BoMs are linked to non-existent operation sequences. Click EDIT to display all affected assemblies. If no correction is made: The affected BoM items are not posted during backflushing.
ass35resok	Resources without capacity. There are several resources without free capacity. In order recommendation this leads to infinite lead times! Affected column: planning/planned capacity or number Machines|Employees
ass35priceok	Resources without costs. There are several resources at no cost. This leads to wrong results in calculation. Affected: Fields COSTS/ cost ratio to marginal costs and total costs.
ass35grpok	Resources with wrong group assignment. There are several resources without or with incorrect resource groups. Click EDIT, the resource list opens where the resources can be corrected.
agcheck001	In several entries faulty operation types are registered. Effect: various functions are not shown because these have been deposited in operation. Measure: a) correct manually: If you click on the message "EDIT", all document types are displayed, in which a faulty operation type is stored. b) create the missing operation types c) carry out the correction using SQL ***Example***: Add operation-type 'std' if link is corrupted 1. Creating an operation type "std" 2. Execute the following SQL statements `update "BEAS_AG" set "AGTYP"='std' where "AGTYP" not in (select "AGTYP" from "BEAS_AGTYP")`

© 2026 Boyum IT Solutions A/S

	`update "BEAS_APL" set "AGTYP"='std' where "AGTYP" not in (select "AGTYP" from "BEAS_AGTYP")` `update "BEAS_FTAPL" set "AGTYP"='std' where "AGTYP" not in (select "AGTYP" from "BEAS_AGTYP")`
srivv040	Serial numbers need to be unique. Otherwise Beas will not work correctly. In **Administration - System initialization - General settings - Stock - Unique serial numbers by** set to "serial numbers" Using other settings, serial number related items cannot be posted in Beas, because serial numbers are always displayed for selection. With another setting, at postings the following error could occur: *10001172 - Leere Strings sind in Zeile 1 (eindeutiges Feld) nicht zulässig [OSRN.SysNumber][line: 0]* Measurements: Use settings as described above. If a change of settings is impossible due to existing data entries, serial numbers need to be entered subsequently.

510XXX error codes:

Error code	Description
510010	'(extwo92241) Incoming goods for the external production must be registered via production - external production - Incoming goods for external production'
510020	set @error_message= 'Item with wrong or missing itemversion in '+@ls_1+' Numbers window: '+@ls_2
510030	set @error_message= 'Item locked by itemversion control:'+@error_message
510040	set @error_message='negative stock on a Bin-Warehouse is not allowed'
510050	left('Reserved goods cannot be charged: '+@error_message
510060	Item(s) locked by itemversion control:'+@error_message,200)
510070	negative stock in a Bin-Warehouse is not allowed'
510080	Locked by reservation system: '+@error_message, 200)
510090	Item(s) locked by itemversion control:'+@error_message
500011	set @error_message='negative stock in a Bin-Warehouse is not allowed'

© 2026 Boyum IT Solutions A/S

Error code	Description
510100	Locked by reservation system: '+@error_message
510110	Item with wrong or missing itemversion in '+@ls_1+' Numbers window: '+@ls_2
510120	Item with wrong or missing itemversion in '+@ls_1+' Numbers window: '+@ls_2
510130	negative stock in a Bin-Warehouse is not allowed'
510140	Locked by reservation system: '+@error_message, 200)
510150	Blanket Agreements and Sale Order must have the same I-Version: '+@error_message
510160	Item(s) locked by itemversion control:'+@error_message
510170	Item(s) locked by itemversion control:'+@error_message
510180	negative stock in a Bin-Warehouse is not allowed'
510190	Locked by reservation system: '+@error_message
510200	Blanket Agreements and Sale Order must have the same I-Version: '+@error_message
510210	Item(s) locked by itemversion control:'+@error_message
510220	negative stock in a Bin-Warehouse is not allowed'
510230	'Locked by reservation system: '+@error_message
510240	negative stock in a Bin-Warehouse is not allowed'
510250	'Locked by reservation system: '+@error_message
510260	set @error_message='negative stock in a Bin-Warehouse is not allowed'
510270	Locked by reservation system: '+@error_message, 200)
510280	negative stock in a Bin-Warehouse is not allowed'
510290	'Locked by reservation system: '+@error_message
510300	negative stock in a Bin-Warehouse is not allowed'
510310	'Locked by reservation system: '+@error_message, 200)
510320	UoM Group cannot be changed because this item is used in some WO!'
510330	set @error_message= 'This item is used in BoM! Cannot be deleted! Please check the reference report!'

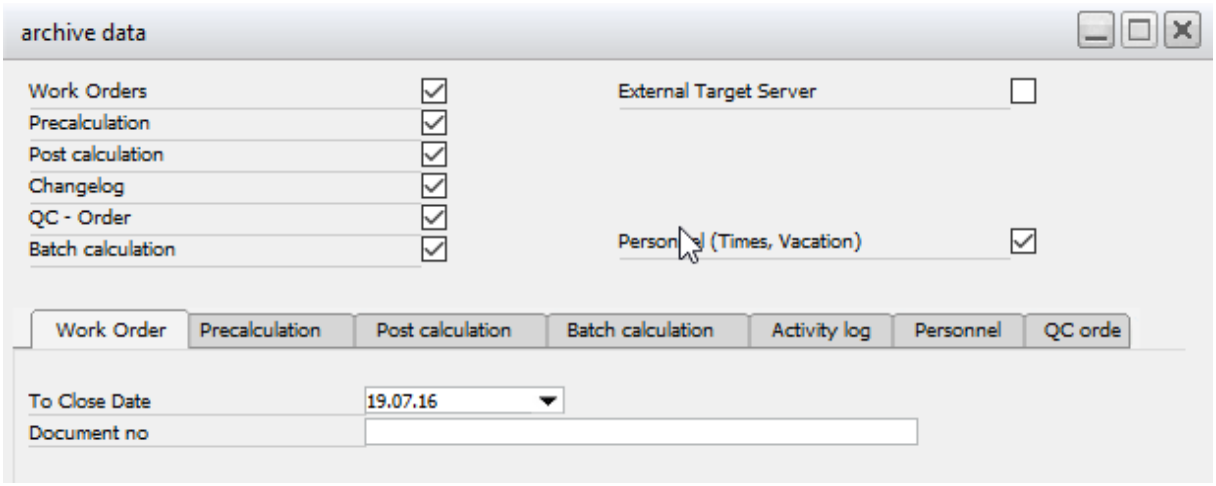
© 2026 Boyum IT Solutions A/S

Error code	Description
510340	set @error_message = 'Item is used and cannot be deleted!'
510350	This item is used in precalculations (or components)! Cannot be deleted! Please check the reference report!'
510360	This item is used in a configuration! Cannot be deleted! Please check the reference report!'
510370	This item is used in a reclamation! Cannot be deleted! Please check the reference report!'

3.4.1.2 Archive data

PATH: Administration > Utilities > Database test > Archive data **Open** button.

Use the data archive function to move data from productive system into archive tables or to an archive data base or archive server.



Window system_backup.psr

Thus, the continuous growth of recently used tables can be prevented. The authorization "System" is required.

IMPORTANT:

The process cannot be undone.

Create a backup before archiving data.

There is no access on archive data within beas.

Recommendation: regular annual backup to keep an access on old data.

© 2026 Boyum IT Solutions A/S

Process:

1. Data base is backed up
2. Select the area to be archived
3. Select a target server or target db
4. Select a period to be included in archive
5. Start archiving

Archiving process:

1. On target data base table structure is created or updated. A 1:1-image of the source table is created.
   Name: `BEAS_BACKUP_[Origin Table name]`, eg: from `"BEAS_FTHAUPT"` the table `"BEAS_BACKUP_FTHAUPT"` is created.
2. All data are moved.
3. Data in source tables are deleted.

Depending on the selected area tabs are displayed, to enter more data.

Field	Meaning
Work order	If active, work orders are archived. Select by completion date (displayed in work order position). Additionally, a document number can be entered. The following tables are affected: `BEAS_FTHAUPT, BEAS_FTPOS, BEAS_FTSTL, BEAS_FTAPL, BEAS_FTAPLCHARE, BEAS_FTCAFT_VARENRTY, BEAS_FTPOS_PROFITCENTER, BEAS_FTPOS_RESERVIERUNG, BEAS_FTPOS_SCHEMA, BEAS_FTPOS_SCHEMA_HEADER, BEAS_FTPOS_SCHEMA_JOURNAL, BEAS_FTZUORDNUNG, BEAS_JOURNAL, BEAS_ARBZEIT` Affected data areas: - Work order - Order times - Batch / Serial number tracing - Batch-calculation / Batch-post-calculation
Precalculation	This is to archive results of Batch-Calculation. Select by creation date.

© 2026 Boyum IT Solutions A/S

	Following tables are affected:
	`BEAS_OITM_CALCPRICE,`
	`BEAS_OITM_CALCPRICE_SCHEMA`
	
	Affected data areas:
	Item master: Price history
	Batch-calculation history

Change log	Archives the change log. Select by creation date. Following tables are affected: `BEAS_AENDERUNG` Affected data areas: All windows, in which **right-click - Change log** is available. Not in item master, because there, the change log of SAP Business One - is used. ***See*** Change log
QC Order	If active, QC order are archived. The indicated "to date" considers all QC orders, which had been created until this date. Affected tables: `BEAS_QSFTHAUPT,BEAS_QSFTMESSUNG,BEAS_QSFTPOS,BEAS_QSFTATTACHMENT,BEAS_QSFTATTACHMENT_CONFIRM`
External target server	A server or a data base can be indicated to which data shall be moved. Required information: server, data base, user, pass word and trusted connection. Any change is saved immediately and is available at next call up. In MSSQL-environment a MSSQL-Server is needed, in HANA-environment a HANA-Server is needed.

© 2026 Boyum IT Solutions A/S

Personnel (Times, vacation)	Data from vacation planning, recorded attendance times, shift planning and monthly values of persons can be deleted. You can only delete dates that are at least 500 calendar days older. Note: Archiving is not possible, only deletion. The following tables are affected: *beas 9.3-001-000*

3.4.2 beas Server management

PATH: Administration > Utilities > Beas Manage Server.

Tomcat and Xampp Service
Planned activities tab
E-Mail tab
Extended tab
Development
Internal HTTP server
beas common service

What is a Beas service?

A Beas service can be a web server, a service which executes planned activities or an asynchronous common server which executes transactions.
The web service can be activated more then once. Load balancing is supported.

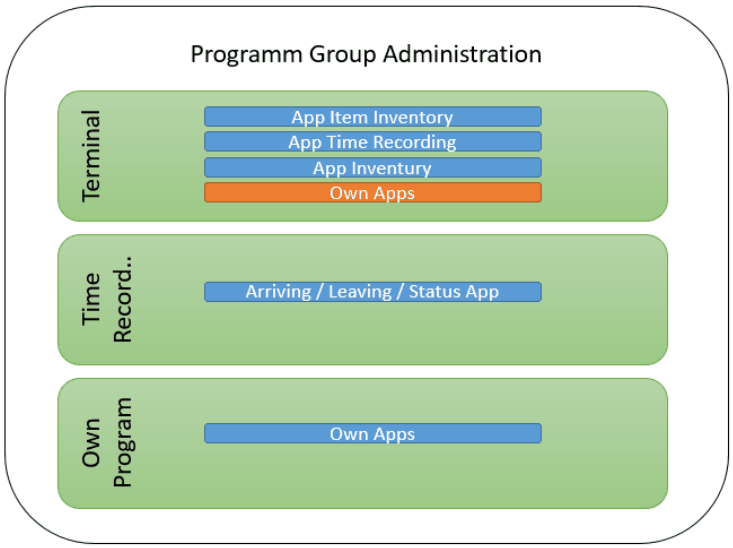
A Beas service is the Beas application which is started as "service".
It is possible to simulate it
- for WEB Server: Tools > Web Server
- for all Services: Beas Manage Server - "Start Local Server" button.

WEB Application Server

© 2026 Boyum IT Solutions A/S

A Web-Application which edits WEB queries (WEB sites, service queries etc.). Required to operate the Terminal App via browser.
See Beas WEB Server presentation.

This service offers all programs set up and enabled in Program groups administration.
Only the program group Terminal is installed and updated by default.



A program group can be e.g. a WEB application as well as a WEB service. All the usual methods will be provided here by the Beas Framework-like WEB-Application with finished Login-screen (employees, customer etc.), as well as, services like SOAP, REST with XML or JSON-format support.

Example: Program group "Terminal": Our mobile solution

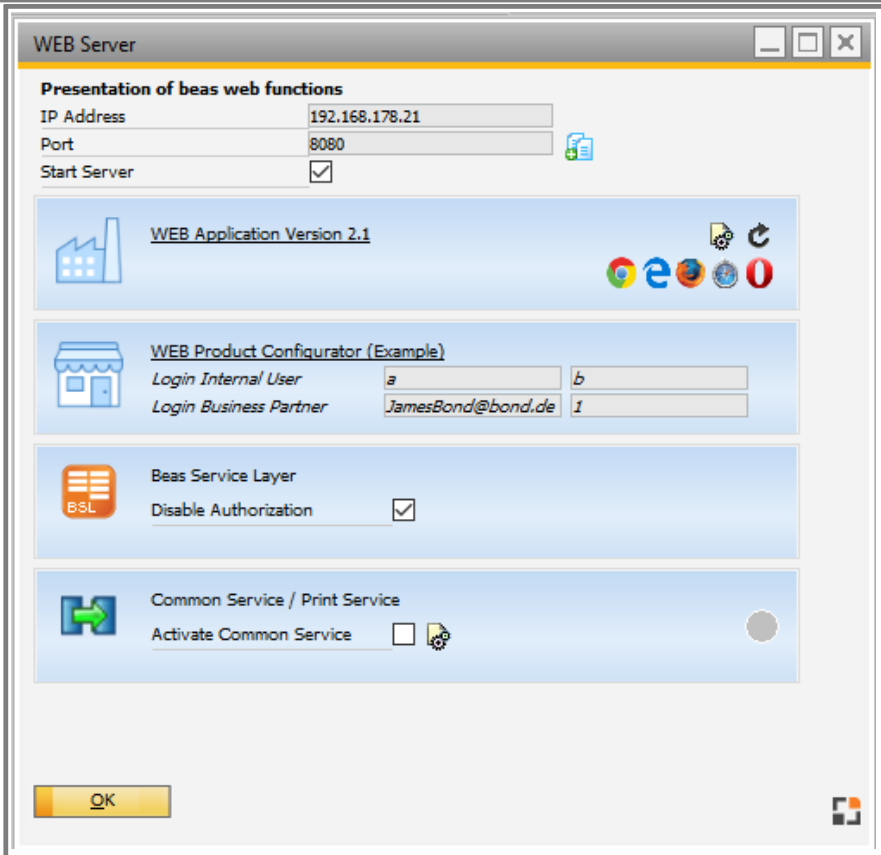
© 2026 Boyum IT Solutions A/S

- This requires an Interface to the HTTP Protocol

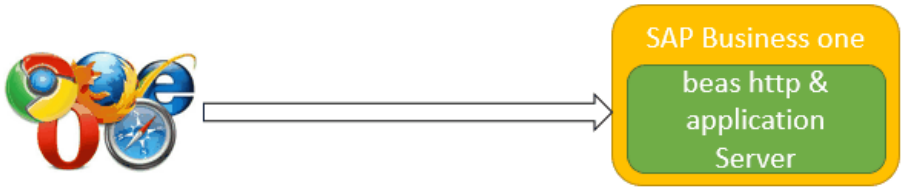
Internal HTTP is used by default. This is a fully integrated WEB Service in Beas. There is no need for an additional Web Server.

You can test all functions with **Tools > WEB Server**.

© 2026 Boyum IT Solutions A/S



Every modern browser can connect directly to the build in HTTP Server.



Compatibility mode

It is possible to use other HTTP Servers e.g. Apache, Tomcat, IIS. Beas provides relevant interfaces for this.

See

Internal HTTP Server

Beas: Install Web Services

Beas KEEP ALIVE System

© 2026 Boyum IT Solutions A/S

The Beas Web Service includes a "Keep Alive system" to avoid any technical problems with access to the current web solution.

When the Web Service is started, a process is started in parallel to ensure the integrity and availability of the web page.

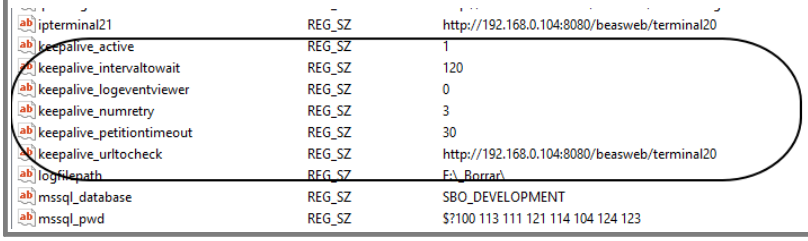
When the system detects that the Web solution is down for any reason, it restarts the web solution to ensure that the web page is always available.

- Parameters

The Keep Alive system manages the following parameters:

Parameter	Description
KeepAlive_Active	You can decide if the system should be active for the current service. The default value is "Yes".
KeepAlive URL to check	This field contains the URL that the system will validate to check if the system is active. if no value is defined, the system goes on to check the URL: http://127.0.0.1:8080/beasweb/index.php
KeepAlive Num Retry	Define the number of attempts by the system to execute before initiating the restarting process.
KeepAlive Petition TimeOut	The number of seconds that system will wait for a valid connection to the URL to check before generating an error in the connection.
Keep Alive Interval to Wait	The number of seconds that the system will wait before the next validation to check if the Web is active.
KeepAlive Log Event Viewer	Define if the Keep Alive System should generate Log information in the Event viewer system. Default value is 0. We recommend to activate this parameter for testing and verify that everything works properly.

The Parameters in the Event viewer:
(HKEY_LOCAL_MACHINE\SYSTEM\ControlSet001\Services\beasServiceXXXX):

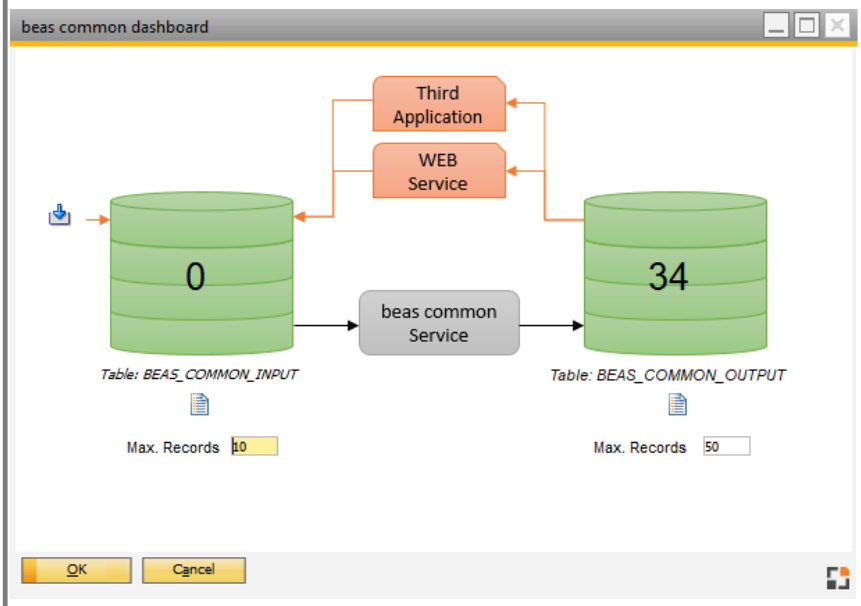


© 2026 Boyum IT Solutions A/S

The WEB Applications are always administrated via Program group administration.
The Program Group Terminal is installed by default. ***See*** Terminal Apps.

- Common Interface

With a common interface, activate asynchronous process working.



Window syste_common_dashboard.psr

Area of use:

- The WEB-Server service sends all Crystal Report
- SAP transactions to this service, via which this asynchronous can be worked off. This relieves the WEB server and reduces load peaks
- External services and third programs can be linked here e.g. to execute transactions

There are finished functions available.
A complete BeasScript can be sent, as well. Then, the script is executed by this service.

See: Common_service

- Planned activities

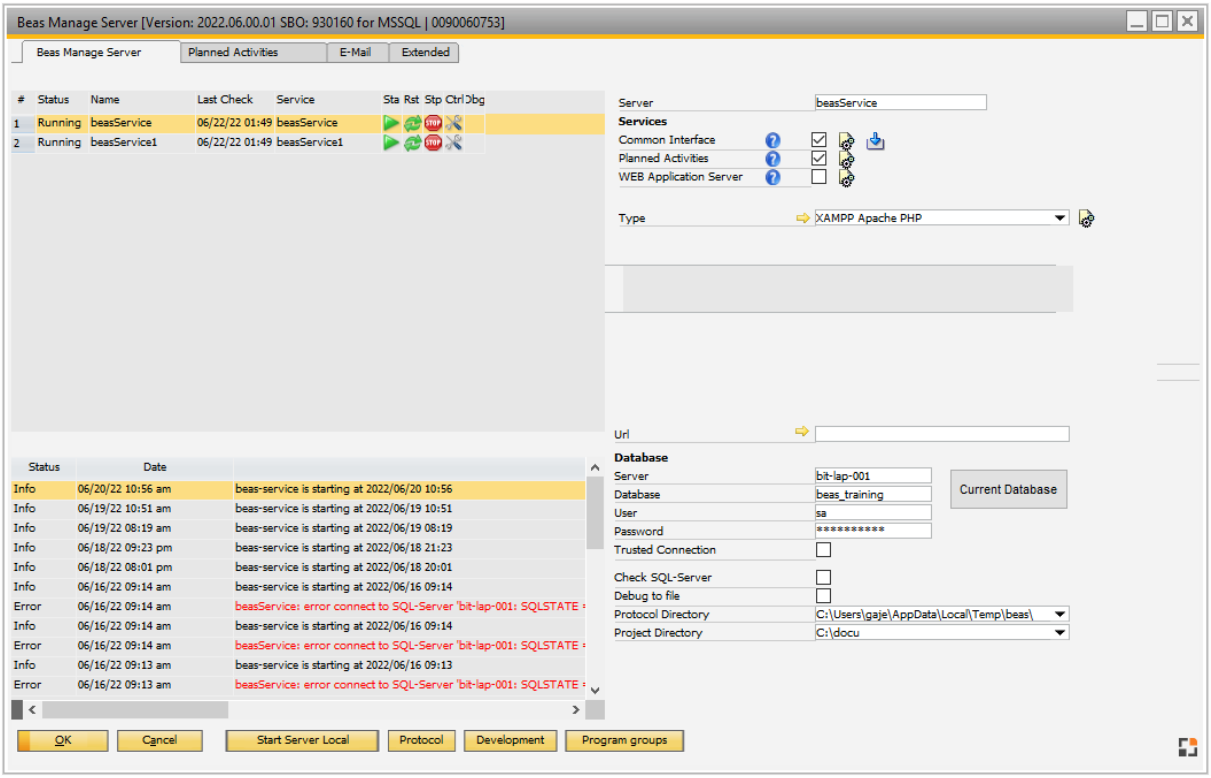
Time controlled activities can be executed here.

- Integration Hub: scan directories and read in files e.g. for machine connection, PDM connection etc.

© 2026 Boyum IT Solutions A/S

- Perform calculation regularly
- Create statistics and send per mail

See: Server-Examples , planned activities



system_server_admin

- List of servers (left side)

All installed services on the current server / PC are in this list.

Field	Description
Status	Status of service (started, stopped, etc.)
Name	Displayed name of service
Type	Type of service (IIS, Tomcat, Apache)
Last Check	Time of last check
Start, Stop,	Buttons to control the service, call up configuration of Tomcat or XAMPP. - Notes on service

© 2026 Boyum IT Solutions A/S

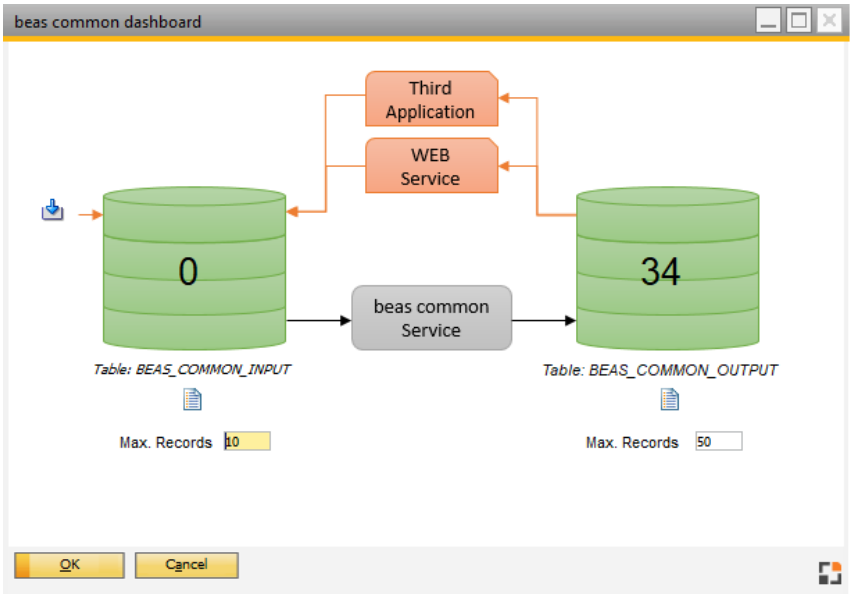
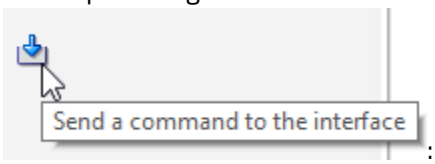
Field	Description
Restart and Control-Center	Service settings are saved on the setup work station or server. These are usual Windows-Services. The service logs on to the stored database; it does not necessarily have to be the current database. If the service is not starting, proceed as follows: 1. Try to re-start 2. Uninstall service 3. **Re-start Server / PC** (mandatory) 4. Re-install service For additional information ***See*** Troubleshooting on services.

- Configurations area (right)

Change settings of the selected service from the list.

Field	Description
Server	Displayed name of server
Services	
Common Interface	- Start common interface Use this to connect external systems. Beas processes can be asynchronized, as well. When activating this service, the following features are automatically moved to this service: WEB APP printing WEB APP all SAP transactions (asynchronous working) Batch-calculation Price lists - Entries Additionally, it can be used for communication between Beas and a third program.

© 2026 Boyum IT Solutions A/S

	Overload and deadlocks can be avoided by using asynchronous processing. Clicking the icon opens the following window to set Max. Records:  *Window syste_common_dashboard.psr* Clicking the icon below opens the "Beas common service test" window for script editing:  : **Attention:** Start this service only once!
Planned activities	Execution of planned activities. The next field indicates the interval of query. Clicking the icon opens the Planned activities window.
WEB Application Server	Activate the Web Application service - For WebApp Terminal 1.0, 2.1 and WEB Product Configurator - Activate all Rest Services and ODATA

© 2026 Boyum IT Solutions A/S

	Note: This is an HTTP Server that does not support HTTPS Protocol. If you need HTTPS, you must use a "Router" between Client and Server, which translates the HTTPS to HTTP protocol. If the user connects to the WEB Application, the current WEB Session has full access to the Beas Service Layer. The user has the possibility to manipulate the session and then receive full access to all Beas Service layer functions. **Attention:** Do not use this for access from outside. This is ONLY an Intranet solution. For higher security, you must use a middle layer, in which you can define the access rules.
Type	Determines the type of HTML Server **The following types are available:** Internal HTTP Service Beas has an integrated WEB Server. This web server does not need any additional tools or interfaces. It is entirely integrated and fast. **Limitations:** It works only with HTTP and not with HTTPS. If HTTPS is necessary, an Apache server can be used as a Proxi Server. Certain services run ONLY with the internal HTTP Server, for example the WEB Product configurator or REST Services. ***See*** internal HTTP Server Alternative ***see*** Other HTTP Services (compatibility mode)

© 2026 Boyum IT Solutions A/S

WEB Application V2.1 Configurator BSL Service	Display the complete IP Address for the related Application Icons: - Question Mark: More information - Arrow: Open this Application in default browser - Clipboard: Copy IP Address in Clipboard
Web Server Port	Every HTTP Service needs an own port. Standard is 80 or 8080. Define the Server Port for this HTTP Server Service It is important to use a HTTP Port, which is not used by other services, otherwise the HTTP Service cannot be started. In many cases Port 80 and 8080 are used from other HTTP services. Use **Tools > WEB Server** to check which port is free. If you need more then one WEB Service then you need for every service an another Port Number.
BSL Password	For using BSL Service (ODATA Service) outside the Terminal WEB Application, you need a password. You can define additional Login Rule in Tab "Extended".
Database	All settings for login to SQL database.
Database	the database in use
Server User Password Trusted connection	Connection information to the SQL Server. Click on Button "Current Database" to connect to current connection information It is possible to create service for another SQL Server. In this case, insert all connection information from the SQL Server.
Check SQL-Server	☐ Check if SQL Server is running on the same machine before connecting to the server Note: This checks the running services on the current machine. Only working if the services and the SQL Server are running on the same machine and only one SQL server instance is activated. Only compatible with MSSQL.
Debug to file	☐ Activate debug log to file

© 2026 Boyum IT Solutions A/S

	It is possible to activate the debug to file for every service. In the Protocol directory you can define the path for the log. Notes: - If you activate this for more than one Service, use a different folder for each service. - The log can grow to be a large file in a short time. Activate the debug log only if it is necessary and always remember to disable it. - Web service is slow if the Debug log is active. For more information ***see*** System Information. Available from *2020.05.*
Protocol directory	This is the folder where the protocol is stored and the log file is saved. Select a directory to which both the service and the application have access. It is best to choose a directory which was not created by Windows. You can also select the directory in System information > Settings tab.
Project directory	Directory for customizations. Normally, the project directory is located at %allusers%. In service mode, this directory is located under Windows\ with resulting access issues. For this reason, the directory must be specified here. Beas generally adds the files to the correct directory. The Service User need access to this project folder.

Functions

Function	Description
Current data base	Name and patch of current database are read out and entered.
Development	This opens WEB Apps development window for Import/Export and Editing the Apps.
New	Right-click menu entry to creates a new server entry.
Delete	Right-click menu entry to delete the selected server entry. **IMPORTANT:** After deletion the server needs to be restarted before a new service can be set up.

© 2026 Boyum IT Solutions A/S

Start Server Local	Starts the selected server in local mode. This mode is used for debugging and development.
Protocol	This opens the protocol.
Program groups	This opens the "Program groups: Administration" window.

Protocol area: shows status of started services

Protocol contains the following information:

- Start / Logon information from Services
- Error messages
- IP-address of current server
- For Apache: monitored ports
- For Apache: error log of Apache Servers

While starting process the service records all log information in the "Protocol Directory" folder. This window reads the information from this file and inserts this in the Beas Protocol and displays the information in this area.

Note:

If the service does not have an active SQL connection, it uses the "Protocol Directory".

This only works if the Service has access to this folder.
It is important for every user to have access to this folder, especially the service user.

Installation notes, Service configuration

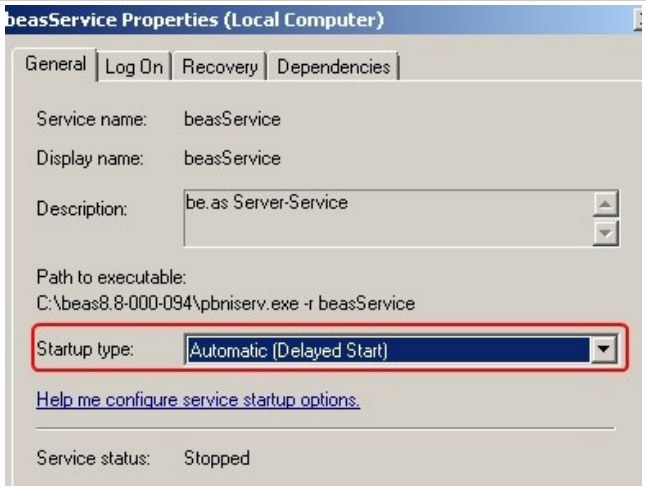
Note on licensing:

SAP B1: Per server one SAP Indirect license is required.

Beas: Depending on the used app the respective license needs to be purchased per parallel connection.

After the service was installed, in Windows–Service the settings need to be adapted:
- Windows - Service
- Set Startup-Type to "automatic (delayed)

© 2026 Boyum IT Solutions A/S



If problems occur with the server connection or contacting the local printer, set to "logon" with account and name / password of the user who runs the services.

IMPORTANT: set up a separate user, start Beas once with this user to set up the environment variables. If the password of this user is changed, the password needs to be changed here, as well.

- Self help in error case

If the service does not start:

- Restart PC/Server
- Check login: Windows Service / Logon - if "this account" was selected: is the password correct?
- After an update: uninstall the service - restart PC - install service and check the entry
- View Server administration - Protocol
- In case of SQL-errors: Windows-Service: switch logon to "this account" – ***see*** Installation.

© 2026 Boyum IT Solutions A/S

Webinar Beas sever tools (8/2017)

3.4.2.1 Tomcat and Xampp Service

The following types are available:

- XAMPP Apache PHP
- B1 Server Tomcat JSP
- Internet Information Service (ISS)

The new WEB APPS are not compatible to other solutions.

For all three post-selections you need to indicate the accessible local HTML folder. A network folder is accepted. Files required for beas are automatically copied.

Information on different services

Type	Description
Internal HTTP Server	Beas has an integrated WEB Server. This web server does not need any additional tools or interfaces. It is fully integrated and fast. Limitations: It works only with HTTP and not with HTTPS. If HTTPS is necessary, an Appache server can be used as a Proxi Server. Some services run ONLY with the internal HTTP Server, for example the WEB Product configurator or REST Services. ***See*** internal HTTP Server
XAMPP Apache	XAMPP Apache needs to be installed in advance. Download and install Download from: https://www.apachefriends.org Install to C:\XAMPP . The service needs to be installed as well and started.

© 2026 Boyum IT Solutions A/S

Type	Description
	Note: Not compatible to WEB APP Version 2 and WEB Configurator
B1 Server Tomcat JSP	Installed automatically by SAP B1 if *Integration Solution Components* have been installed. The correct folder is proposed automatically. Changing / Modification of the folder is not allowed. Note: Beas required administration rights on the Tomcat folder. Beas might be launched with administrator rights. Note: Not compatible with WEB APPs 2.0 and WEB Configurator
Internet Information Service (ISS)	The PHP version is used. Not compatible to WEB APPs Version 2.0 and WEB Configurator.
external Server PHP	uses a selected external PHP Server Note: Not compatible to WEB APPs Version 2.0 and WEB Configurator.

If the HTML server is not located in the local network "external server PHP" can be selected. ***See*** also the separate manual: WEB Apps installation and troubleshooting

For Tomcat and XAMPP the following functions are available:
opens the control center
cogwheel: opens the configuration file

The following, additional fields are available:

Internal Connector	Using an internal connector, Beas works based on the files. Only the folder to be monitored is to be specified here.

© 2026 Boyum IT Solutions A/S

Directory connector	This is the directory where the connector is stored. The connector consists of a bundle of files, as index.php, or *.jsp and some sub-directories for bitmaps. If XAMPP is used, the path is c:\xampp\ htdocs\
Directory communication	Beas communicates via files with the connector. The directory is allocated automatically and should not be changed. Generally, it is the folder \beasweb\ within the connector folder.
External Connector	☐ Activate external connector An external connector is used when the web server is located outside the local network, e.g. in a data center. This communication does not take place by means of files, but by the WEB protocol. Beas queries every second if there is a request on the web server. For this purpose, the content of **%program files%\beas software\beas\program\beasweb\beasweb.zip** needs to be installed on the web server. The following files are not required: .htaccess, index.jsp The connector requires a sub-directory "beasweb" with rights to read and write. Beas communicates with connectorread.php and connectorwrite.php and requires global variables (must be enabled in PHP if necessary)
URL Connector	URL of Connectors
Connector Password	Password. Set up on opposite party in common.php
Performance Monitoring	☐ Activate monitoring of performance of the HTML-Server If enabled, every activity usable for performance monitoring is logged. **IMPORTANT:** Activate this option only for analysis, then deactivate it again. Use the arrow left to the field to call up. The average processing time is displayed in ms.

© 2026 Boyum IT Solutions A/S

Service Pool	Various services can be managed in one "pool" by assignment to a service pool. If one service has to process more sessions than another at the moment of first access, the task is re-routed to another service of the pool. **Note**: For the re-routing to be working correctly, the field URL must always be up-to-date. (***See*** also Distributed Server landscape*)*

3.4.2.1.1 Distributed Landscape

PATH: Administration > Utilities > Beas Manage Server.

Configuration of Server management

By using different types of servers and the possibility to run services simultaneously, it is possible to configure complex, distributed server landscapes. This chapter is explains several configuration scenarios.

Attention:

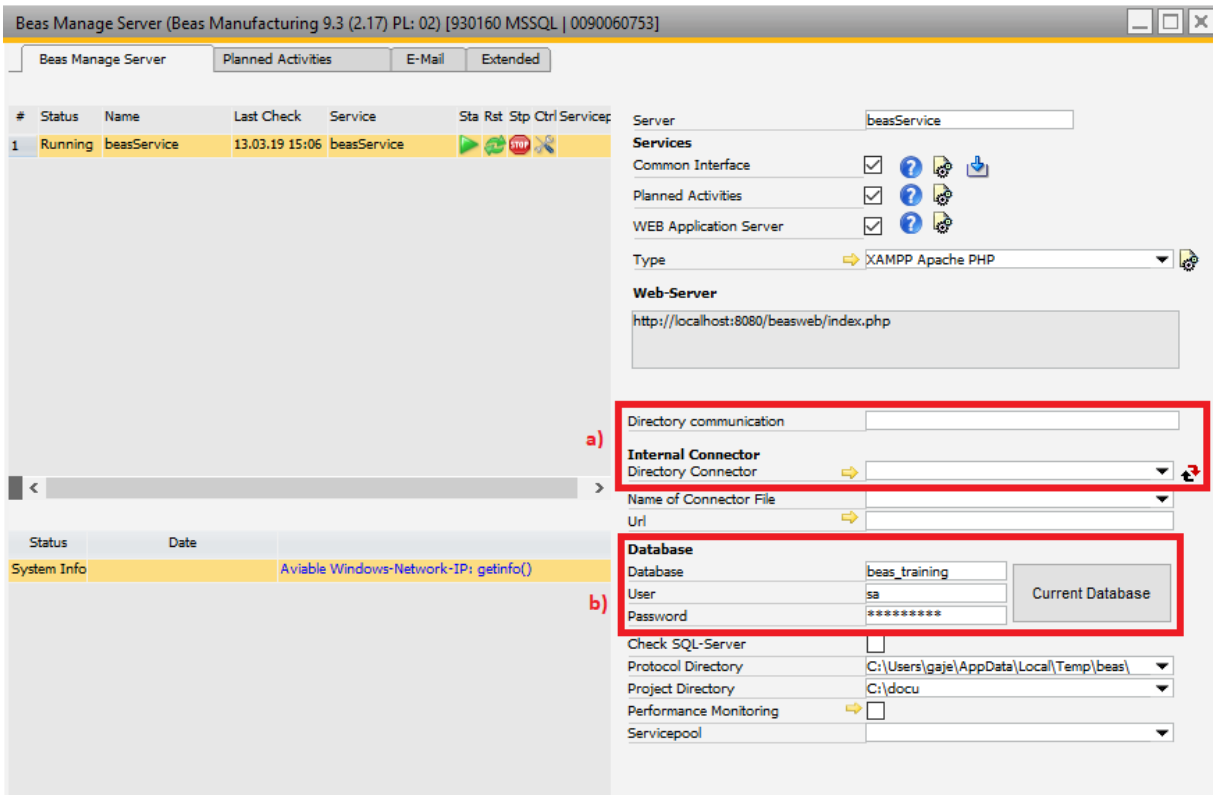
This documentation is only for XAMPP/Tomcat Connector
New WEB Application support - only internal server. No settings are necessary for this internal server.

Scenario 1: Demo area of Beas Mobile

This scenario is to configure a dedicated demo area besides the productive environment for Beas Mobile. This demo area is based on a separate database.

1. Setup of *BeasService #Prod*

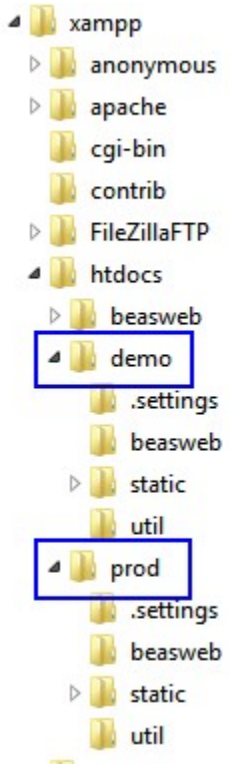
© 2026 Boyum IT Solutions A/S



Window system_ server_ admin.psr

First step is to setup a productive environment to provide apps. For this, create a new service in the Beas Manage Server and activate Common Interface and HTML-Server. After changing this, select a type for the service (for example XAMPP). The important part is to select the correct directory for the connector and for the communication directory. It is recommended to use the following structure:

© 2026 Boyum IT Solutions A/S



Tip 1:
Make certain that the selected directory already exists. The necessary files can be installed to the connector directory by clicking the icon next to the related field. In case there is a problem with installing the files, you can unzip them manually from the installed archive (common: *C:\Program Files (x86)\beas software\beas\program\beasweb\beasweb.zip*) to copy them to the target directory.

Tip 2:
The directory for the connector should contain a folder *beasweb*. In the Beas Manage Server window this directory should be displayed in the Directory communication field.

Tip 3:
When using Tomcat, the communication directory must be the same as the one for the *index.jsp* of the connector.

2. Setup of BeasService #Demo
Follow the steps to create the productive services and modify the settings for the directories of communication and for the connector. ***See*** (a) in the screenshot above.
Note: The connection to the database must be switched to the demo system (b).

© 2026 Boyum IT Solutions A/S

3. DI-API configuration

You can modify the settings for the DI API in the *Common*Tab. This setting is saved to the current database. If you want to modify this for the specific instance of the service, use the Beas client to connect to the related database.

4. Test your systems

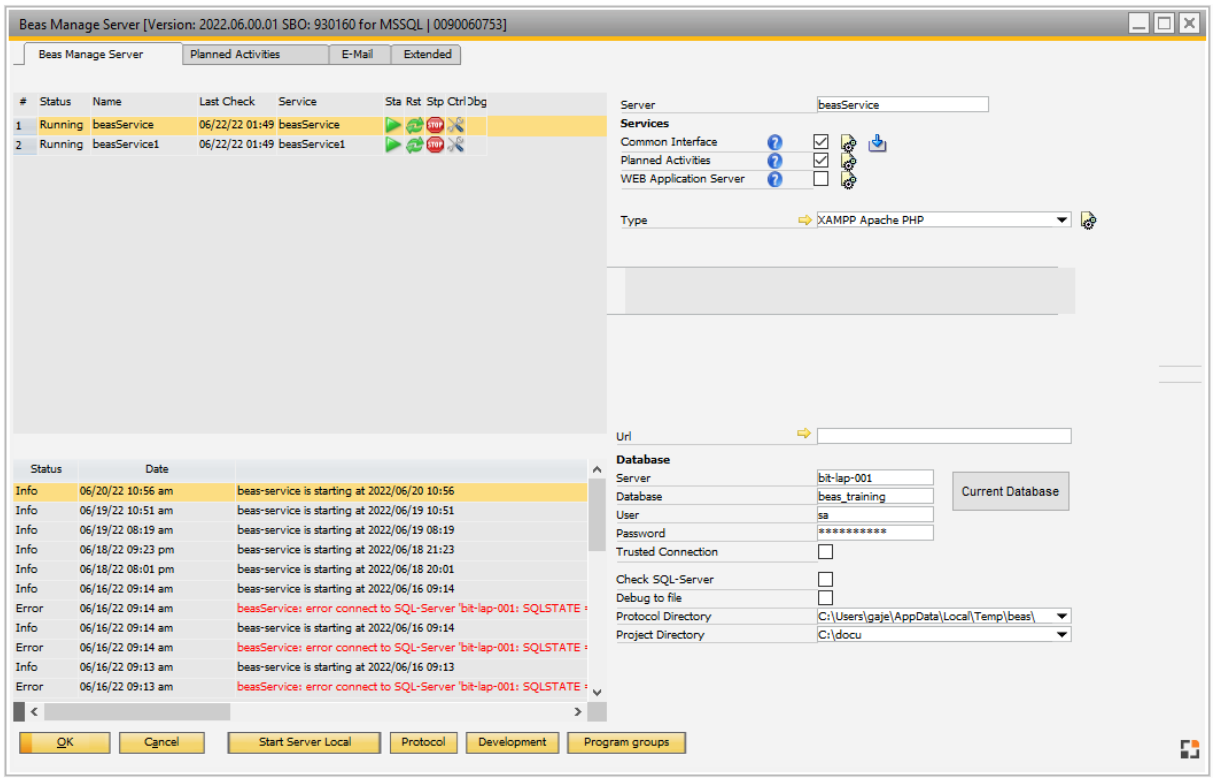
Make certain that your Apache or Tomcat is running. The system should be accessible with URL http://myserver/prod and http://myserver/demo.

Scenario 2: Load Balancing for BEAS Mobile

Current server systems are using multicore architectures and high reserves of memory (RAM). To allow Beas-Services to use these resources optimally, it is recommended to install multiple services for load balancing. Especially if it is needed to provide applications to a high amount of mobile devices, the installation of a multi-service architecture should be considered. It is possible to split the load for HTML-Services, to render the application interface in multiple instances, and give them separated URL endpoints to access.

1. Setup the Common Interface Service

First the so called Common Interface Service is necessary to process the business logic asynchronously. It is necessary to set the Asynchronous Processing on the Extended Tab.



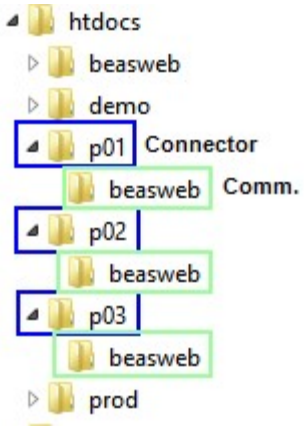
© 2026 Boyum IT Solutions A/S

Window system_ server_ admin.psr

2. Adding HTML-Services

Now, the preferred number of service instances could be added.

Note: All services must use their own folder for the Connector and for communication.



In this case the instances are accessible by the URLs http://myserver/p01, http://myserver/p02, ...

3. System test

Before testing make sure that any services to test are running. Additional check the status of the Apache or the Tomcat service.

Call the Websites:

http://myserver/p01

http://myserver/p02

http://myserver/p03

For all URLs BEAS should be accessible.

3.4.2.2 Planned activities tab

Beas Manage Server

Planned activities tab

E-Mail tab

Extended tab

© 2026 Boyum IT Solutions A/S

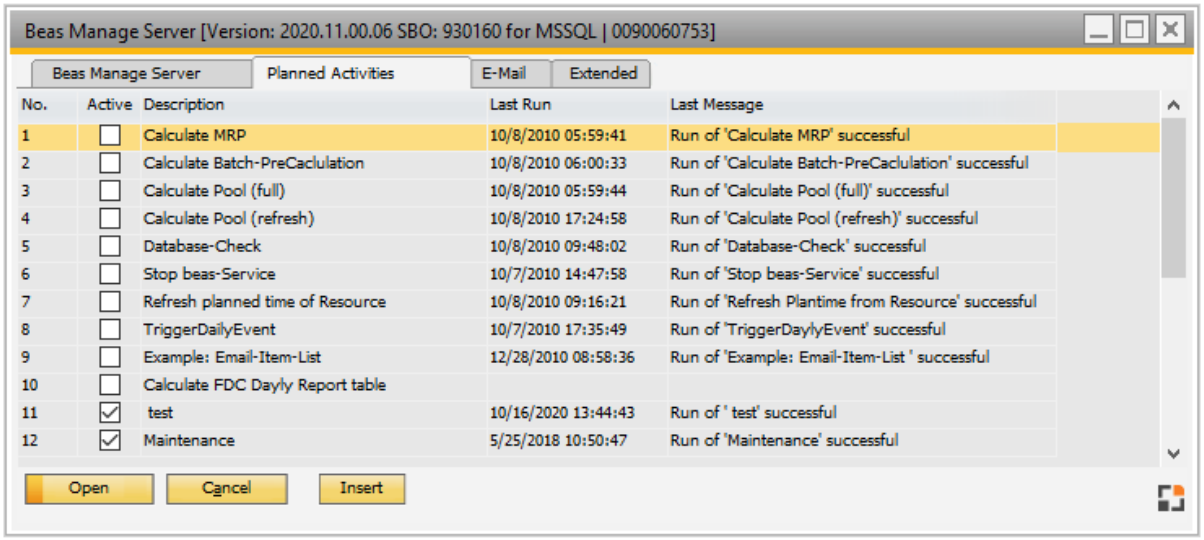
Planned activities are small scripts, which are executed regularly.
These can be called:

- From Beas-Server service (***see*** Server administration configuration)
- From the Windows task planner (***see*** Concept Tasks, Beas-call-up parameters)

For general information ***see*** Tasks.
If a task is called from the Windows task planner, (call-up parameter task=..") settings "active", "from time" and "iteration" are not considered, as this can be set up in more detail in the Windows task planner.

In this tab you can manage planned activities. Activities are listed with the date of the last execution and last message. For details, ***see*** Examples of activities. All stored tasks are displayed. Multiple selection and copy and paste of the selected functions is also possible.

PATH: Administration > Utilities > Beas Manage Server > "Planned Activities" tab.



Window system_server_browse.psr

Field descriptions

Field	Description
No.	Number of the activity. If Beas.exe is called up using the parameter "task", you can indicate the stored number. ***See***: Tasks.
Active	Enabled activity

© 2026 Boyum IT Solutions A/S

Description	Description of the task.

Functions

Function	Description
Open	Edit the selected task.
Add	Create a new task.
Remove	Delete currently selected task. A copy is stored in the clipboard.
Duplicate	All marked entries are copied to the clipboard.
Insert	All entries from the clipboard are inserted.

Back to Server administration

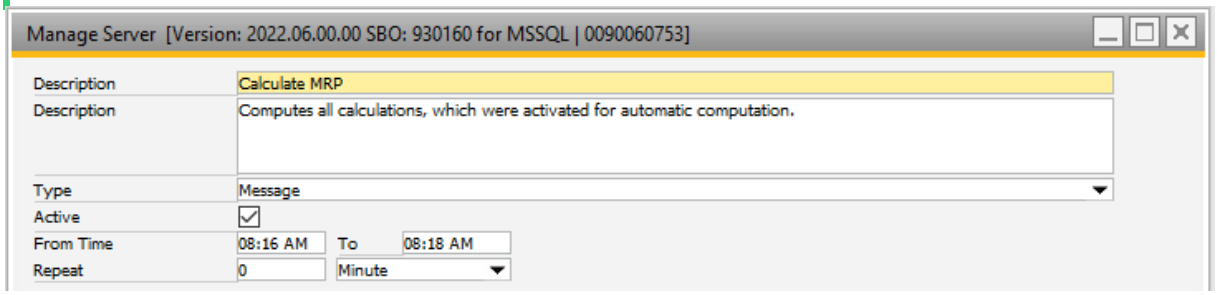
See Server examples

3.4.2.2.1 Manage Server - editing a task

In this window you can edit a task opened from the planned activities tab of the Beas Manage Server.

Execution
Condition
Message
Button
Statistics
Import tab

PATH: Administration > Utilities > Beas Manage Server > "Planned Activities" tab > **Open** an activity.



Window system_server_edit.psr

© 2026 Boyum IT Solutions A/S

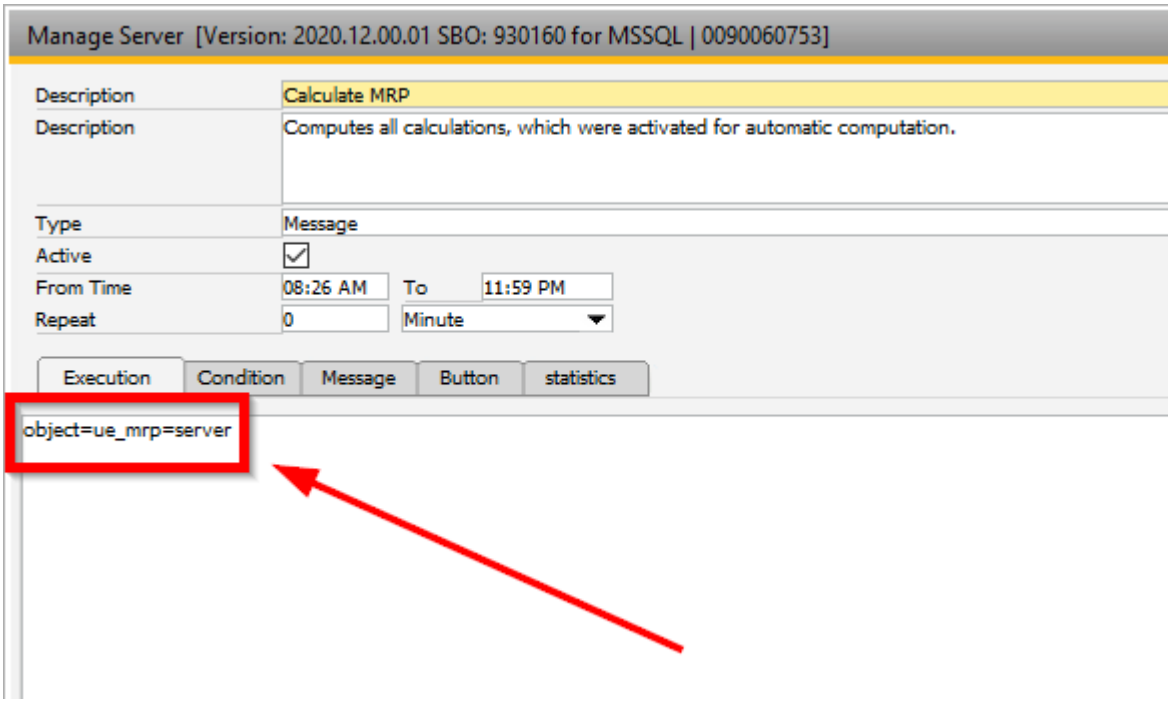
Editing a task

Field/Function	Description
Description	Specifies the name of the task.
From time xx:xx to xx:xx	The time period is defined here, during which the task is carried out.
Repeat	A regularity with which the task in the given time period is carried out. Enter 0 to execute the script only once in the given period. ***Example***: Period 8:00 hrs to 18:00 hrs Loop 10 Minutes Every Monday, Wednesday and Friday This means that the task starts on Monday, Wednesday and Friday every 10 minutes between 8:00 and 18:00 hrs.
Run	The action to be taken is defined here with the help of BeasScript. ***See*** Server examples.
Last Run	The date and time that the task was last started.
Last Message	Using the message, see whether the task was successful or faulty in the last run.
Reset	Right-click function to remove last run and last message.
Test	Execute the script directly.

3.4.2.2.1.1 Execution

In this tab you can add a script that will execute the activity in the times and repetition defined in the header.
Default scripts can help you schedule an activity. For each activity it is possible to set the default scenario for calculation in the related settings of the Configuration wizard.
See how to define additional execution conditions.

© 2026 Boyum IT Solutions A/S



Window system_server_edit.psr

See Example of activities

back to Planned Activities tab

3.4.2.2.1.2 Condition

In this tab you can define further execution conditions:

Condition	Description
Monday – Sunday	Activate radio box for the day(s) when the execution should be performed.

Execution only (return failure = Cancel)	You can insert a script which defines if the system has to execute this task
	if script returns failure (-1) , the system does not execute this task.
	
	Example:
	`#jbs`
	`if (file.fileExists("c:\\import\\importFile.xml") == false) return -1`

© 2026 Boyum IT Solutions A/S

Execution tab

back to Planned Activities tab

3.4.2.2.1.3 Message

In this tab you can save a message, a title and an image for the performed activity.

Field	Description
Save as	Define how to save the message **Beas activity with decision:** Create a Beas Message with Buttons for additional activities **SAP activity with decision:** Create a SAP Activity with Buttons for additional activities **Message without decision** Create a Beas Message without additional functionality
Image	Save an image for the message (only beas messages)
Title	Save a title for the message
Message	Add a message
Recipient 1	The recipient of this message - only when logged in. If acceptor is not logged in, the system sends the message to optional users. If no optional user is logged in, the system sends this to acceptor 1.
Optional 1	The recipient of this message, if Recipient 1 is not logged in.
Optional 2	The Recipient 2 of this message, if Recipient 1 and Optional 1 not logged in.

back to Planned Activities tab

3.4.2.2.1.4 Button

Field	Description
Button 1 – 3	Name of Button 1-3

© 2026 Boyum IT Solutions A/S

Field	Description
Activity close	Closes the actual message.
Script	Executes the saved script.
Reference Type	Type of linked document (Work order, Sales order)
Reference 1 – 3	Linked document number

back to Planned Activities tab

3.4.2.2.1.5 Statistics

This tab provides statistics for the execution of the planned activity.

Field	Description
Last Run	
Start	The starting time of the last execution. ***Example:*** 11/24/2020 08:27:16
End	The ending time of the last execution. ***Example:*** 11/24/2020 12:27:16
Duration	Duration of the last execution defined in minutes.
Total	
Execution	Number of all performed executions.
Time	This is the total value of all durations that is the sum of every execution.

back to Planned Activities tab

3.4.2.2.1.6 Import tab

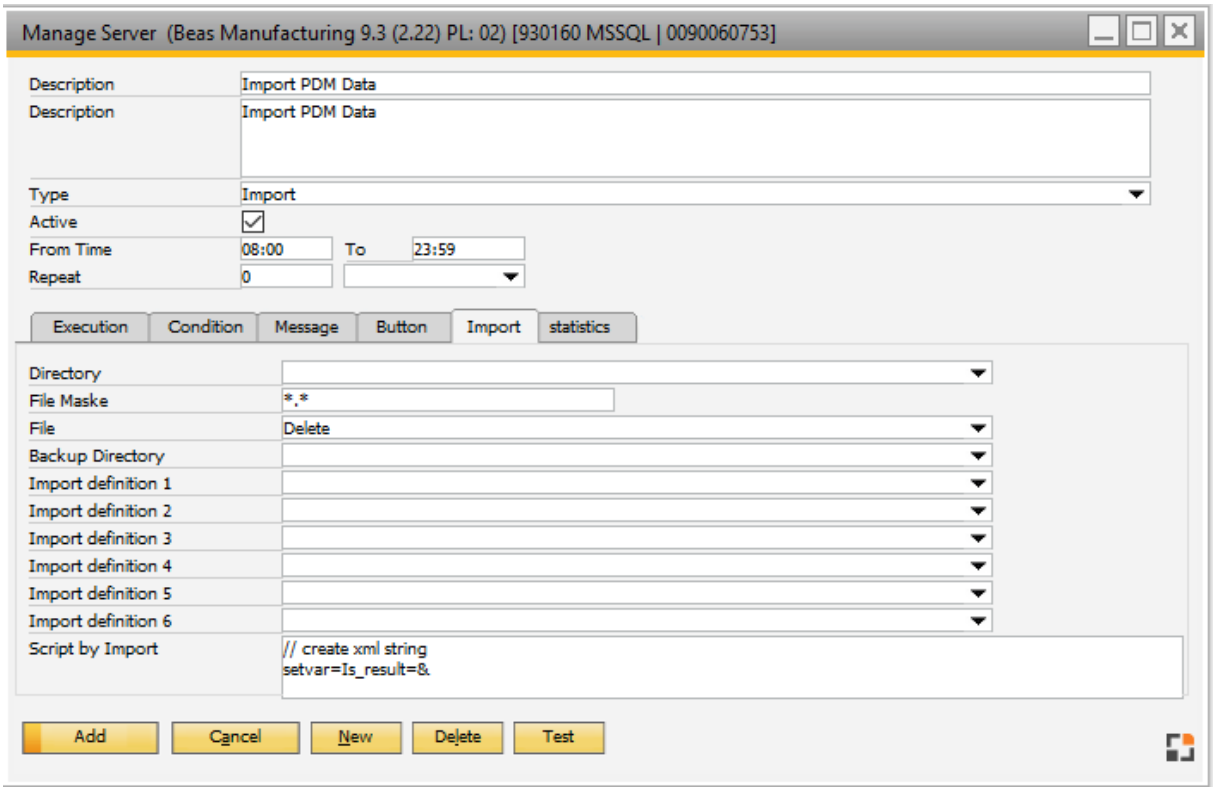
PATH: Administration > Utilities > Beas Manage Server > "Planned Activities" tab > **Open / Add** button.

In the Import tab you can define which files are imported automatically. A directory is defined for this which is checked for new files.

For each import up to 6 import definitions can be defined, which are read in order.

Example: A file contains information on items and bill of materials. First, the items are read, followed by the bill of materials.

© 2026 Boyum IT Solutions A/S



Window system_server_edit.psr

Then the inserted file is deleted or moved depending on the settings.

In case of an error, the import stops immediately. The `importlog` variable saves the error log.

In the *Script after import* field a script can be stored, which is called after the import. This can be used to display a message (for example, in a response file), to enable two-way communication.

Report of import errors

If a message must be issued with the Beas message window (Default), select *beas activity with decision* in the Message tab and a report has to be stored for the respective message. A default value is inserted automatically. Only the recipient has to be entered. The message is generated only in case of error. The same variables are available, which are described in "Script after import".

Field	Description
Directory	The directory to be checked for new files.
File mask	The files to be read. Wildcards are allowed (*, ?), e.g. *.xml.
File	Determine the action to be taken on the file after the import. • No action. • Delete.

© 2026 Boyum IT Solutions A/S

	• Move to the backup folder. • Move with time stamp. The date and time is added to teh file name.
Backup folder	The backup where file is moved to after the import is complete.
Import Definition 1-6	Max. 6 import definitions can be added that run in order. The process is canceled in case of error. Previously executed actions are not taken back. You can define additional behavior in case of errors in the "Script after import".
Script after Import	Script to be executed after the import. The script is executed only once. The following variables are available:

Variable	Description
importfile	Imported file name
importok	1 = all ok, -1=error
importtyp / importreihe	Definition name, link to BEAS_IMPORT_KOPF.TYP / REIHE
importlog	Error log, text format with cr_lf per error
importrequestid	The request ID, which is stored in the Import-Setting – Extended *(beas 9.2 PL: 01*
importfilenewname	The variable contains the new name of the backup file generated by the system. If the definition is to "delete file", this variable is empty.

Example create an answer file

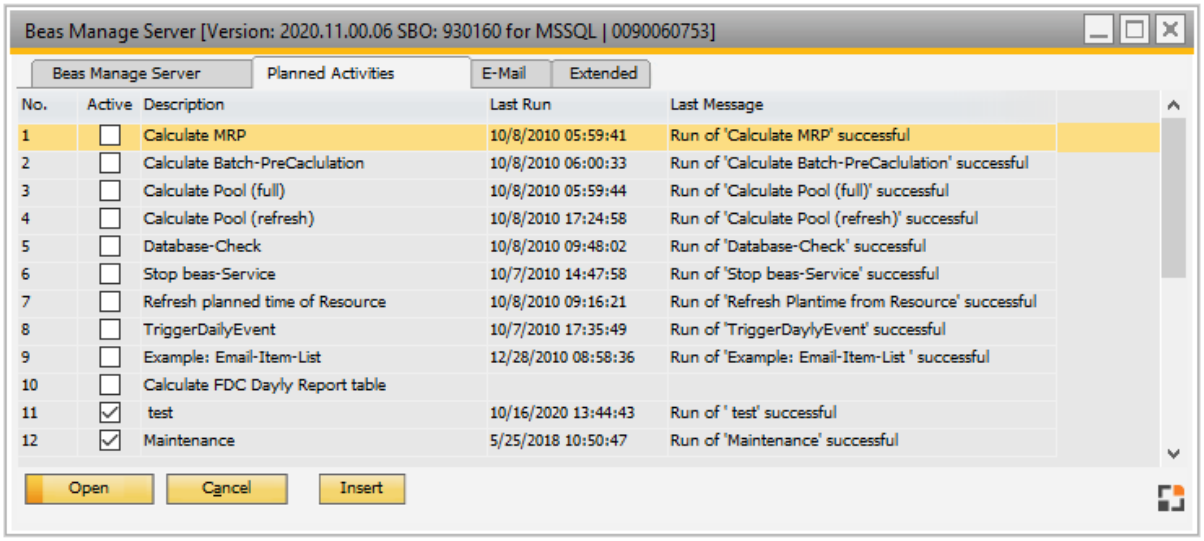
```
// create xml string
setvar=ls_result=&
   <request>&
   <requestid><importrequestid></requestid>&
   <importstatus><importok></importstatus>&
   </request>
// save as file
tools=filesave=c:
\import\requestfiles\<importrequest>.xml=<ls_result>
```

Note: if you create an answer file

© 2026 Boyum IT Solutions A/S

3.4.2.2.2 Examples of activities

PATH: Administration > Utilities > Beas Manage Server > "Planned Activities" tab.



Window system_server_browse.psr

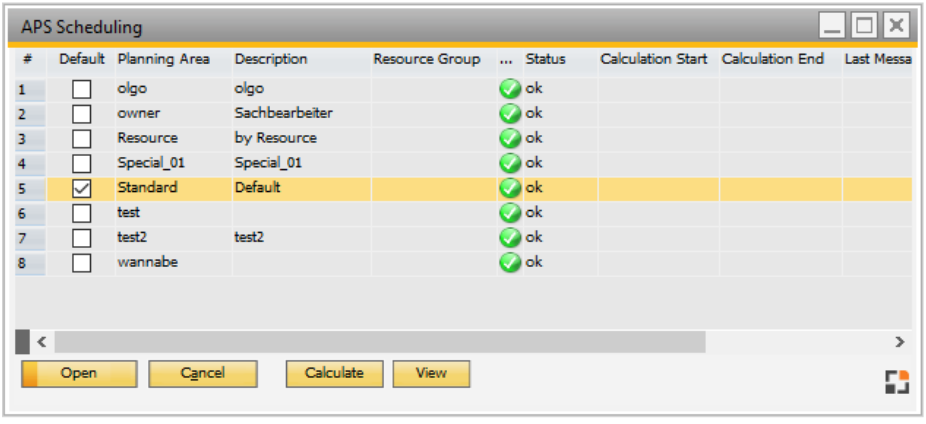
In server management, the following tasks are available by default:

Task	Description
Calculate MRP	Executes all calculations that are activated for automatic computation.
Calculate Batch-PreCalculation	Executes all batch pre-calculations which are enabled for automatic computation. ***See*** Batch-calculation.
Calculate Pool (full)	Computes the resource pool including the active pool (once daily).
Calculate Pool (refresh)	Computes the resource pool, leaving pool 1 unchanged.
Database-Check	Performs a data check and records the existing data integrity problems. This is the same check as performed after a program update.
Stop Beas service	⊟ End the service At least once a day the server service should be restarted to clear the memory. Proceed as follows: Task manager – Restore 1. First error – Restart service 2. Second error – Restart service

© 2026 Boyum IT Solutions A/S

	3. Third error – Restart service The service is restarted automatically if it is stopped with this task.
Refresh planned time of resource	Calculates the time available for the resources and resource groups. This is normally done, but it should be recalculated from time to time.
TriggerDailyEvent	(Event System: Event dailyevent "and Milestone-Check) In events daily messages can be created based on this event .
Calculate FDC Daily Report table	Update the Daily attendace report This report creates tables which are necessary for various reports and views in attendance. This can also be calculated manually. For further information see Recalculation. It is recommended to start recalculation once per week.
Calculate Material requirements for Cockpit	Calculates material requirements of work orders for the Beas Production Cockpit on a regular basis.

Script examples

Example	Script
Calculate MRP	Calculate all recommendation reports marked for automatic calculation `object=ue_mrp=server`
Precalculation	Batch pre-calculation with the given number is executed `tools=runbeas=batchcalc=1`
APS	Calculate a APS scneario In Capacity planning it is possible to define different scenarios: 

© 2026 Boyum IT Solutions A/S

	Add the following script in the Execution tab of the APS Planned activity to calculate an APS scenario automatically in a task:
	`object=ue_aps_browse=calculate=<ScenarioId>`
	
	Example
	`object=ue_aps_browse=calculate=olgo`
	
	Note: If you wish to execute the default APS scenario, leave the scenario ID part of the script empty.

Calculation of lead time and material requirement	Computes material and resource requirement and the lead time per production lot size (oitm.leadtime)
	Information is saved in beas_oitm_material and beas_oitm_resourcen tables. It can be used as base for MRP rough planning.
	
	The function can be called manually from the item structure list.
	`setvar=is_itemcode_from=`
	`setvar=is_itemcode_to=zz`
	`setvar=is_itempropertie=`
	`setvar=is_save_leadtime=true`
	`setvar=is_save_material=true`
	`setvar=is_save_resource=true`
	`object=ue_mrp=resourcenplanung`

Beas starting parameter "`task=`"
With this parameter a stored activity is executed directly and Beas is closed afterwards.
See access parameters

3.4.2.3 E-Mail tab

PATH: Administration > Utilities > Beas Manage Server > "E-Mail" tab.

Beas Manage Server
- Planned activities tab
- **E-Mail tab**
- Extended tab

© 2026 Boyum IT Solutions A/S

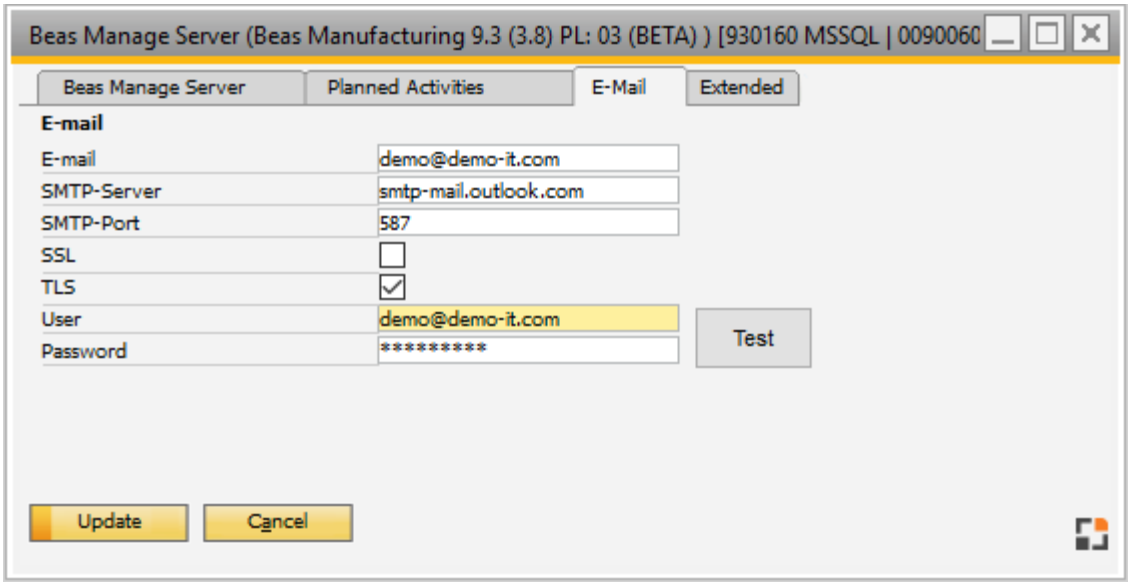
E-mail tab:

In this tab it is possible to enter E-mail account data for the service.

The following settings are available: SMTP Server, SMTP-Port, SSL, TLS, User+Password, Encryption.

You can also perform these settings in **Administration > System initialization > Configuration wizard > Administration > Print and report setup > Email**

Example: Outlook setup with TLS port



Window system_server_email.psr

For Field descriptions of this window click here.

For details of SMTP server settings for outlook ***see*** documentation of used email provider.

For SMTP settings of MS Outlook visit this page.

Buttons

Button	Description
Test	Create a email for the defined email address For this the system ask for your email address. It will send a test email to you.

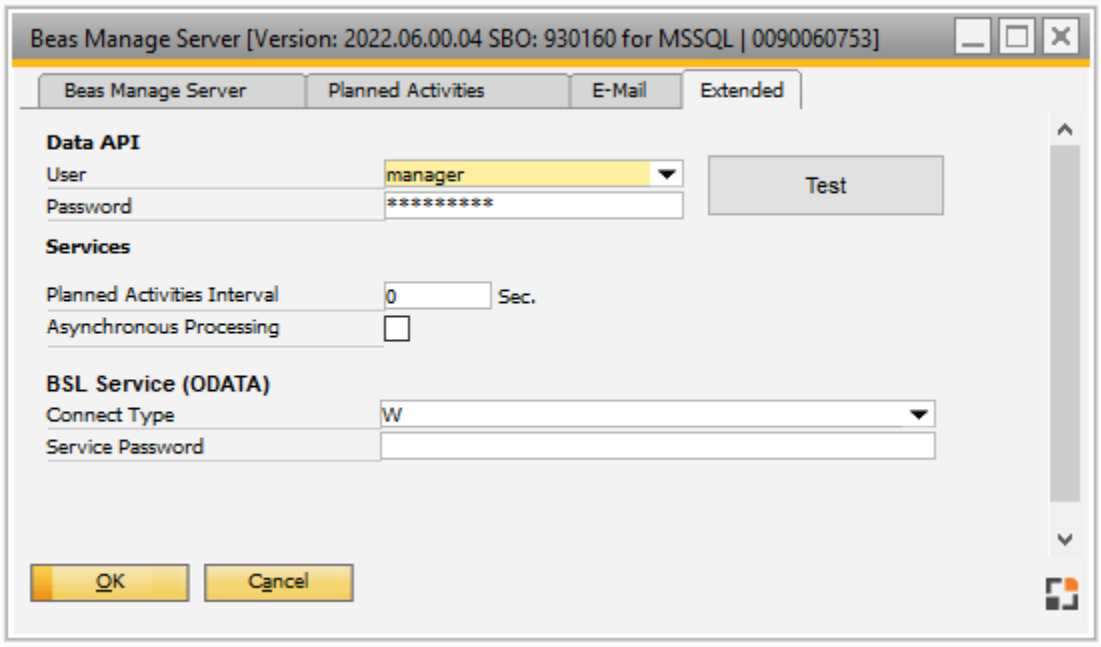
3.4.2.4 Extended tab

PATH: Administration > Utilities > Beas Manage Server > "Extended" tab.

© 2026 Boyum IT Solutions A/S

Beas Manage Server
Planned activities tab
E-Mail tab
Extended tab

Extended tab:



Window system_server_common.psr

Field/Function	Description
Data API	*Settings for data API*
User	Select user from the drop-down list.
Password	Enter user password.
Test button	Test settings for data API.
Services	*Settings for Beas services*
Planned activities Interval	Define interval of planned activities execution in seconds.
Asynchronous Processing	☐ Activate asynchronous processing Related to most of WEB APP's Version 1.

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td>If this option is enabled, the transactions will be redirected to the Beas Common service. Transactions are no longer carried out on the WEB service, but on the Beas Common Service that can be started in parallel. The processing on the Beas Common Service is running serial (batch processing). The WEB service is not blocked and the client can continue working. When the transaction is complete, a message is sent to the web client.
See also Configuration wizard setting.</td></tr>
<tr><td>BSL Service (ODATA)</td><td></td></tr>
<tr><td>Default Connection Type</td><td>Types of Connection<table><tr><th>Setting</th><th>Description</th></tr><tr><td>Employee + Password</td><td>Provide employee name + password</td></tr><tr><td>Employee + Password + Service Password</td><td>Provide employee name, password and special, service password</td></tr><tr><td>Service Password</td><td>Provide service password only.</td></tr></table>Test BSL: The button tries to connect to the server, reads the service password, and verifies if the connection was successful.</td></tr>
<tr><td>Service Password</td><td>Set a password for the BSL Service</td></tr>
<tr><td>Beas WEB URL (https://Server:port)</td><td>The port to communicate with the SAP Server. SAP web can access Beas web through this port.
NOTE: SAP only works with secure connections.</td></tr>
<tr><td>SAPWebExtensions path</td><td>The folder where SAP Web Extensions are saved in Beas.
Click on the drop-down to select the folder. Note: The system may take time to load the "Browse for folder" window.</td></tr>
<tr><td>Update .mtar files</td><td>After testing the BSL with the corresponding button above, updating the .mtar files in the B1_SHR folder is necessary to have correct customer information in
the system to work with Beas integrated in the SAP Web solution.
Clicking this button will create a copy of the two .mtar files that are installed by default:
BeasManufacturingWebClient.mtar: Contains special functions for the SO and Inventory history screens of SAP.</td></tr>
</table>

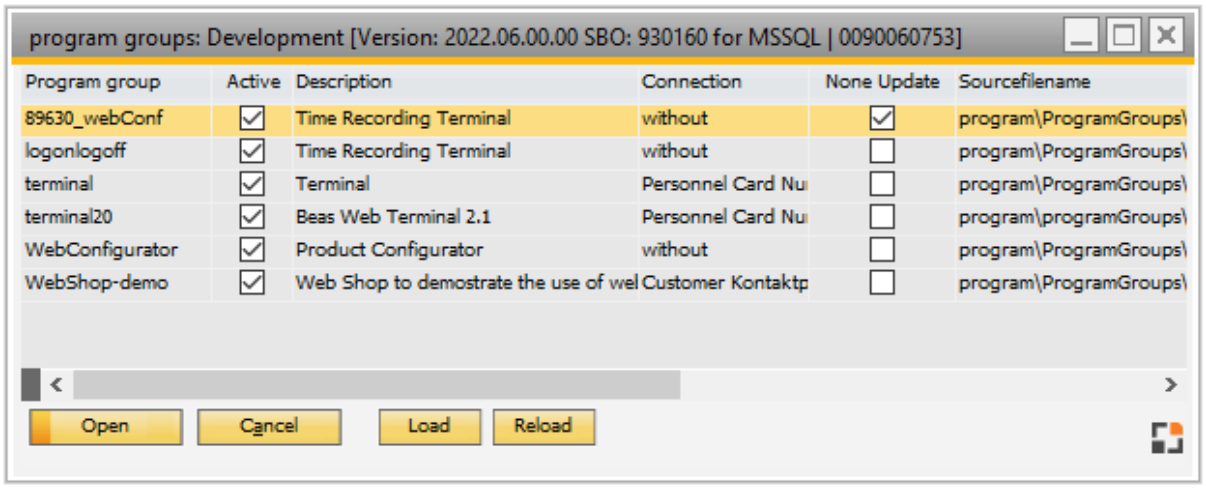
© 2026 Boyum IT Solutions A/S

	BeasManufacturingWebClientTiles.mtar: Contains two tiles to add in the SAP Web Solution. The new (copied) file names will be: **BeasManufacturingWebClient_Install.mtar** and **BeasManufacturingWebClientTiles_Install.mtar**. Use these two files to import in the SAP Business One Extension manager.

3.4.2.5 Development

PATH: Administration > Utilities > Beas Manage Server > Development

Here you can see all installed Program groups



webprogram_browse.psr

Standard Program groups

Program Group	Description
logonlogoff	Simple time registration app
terminal	Terminal Desktop definition (and WebApps Version 1 - not supported)
terminal20	WebApps 2.0
WebConfigurator	Web Product Configurator

Function

© 2026 Boyum IT Solutions A/S

Function	Description
Open	Open the development window for a program group
Load	Load additional program groups
Reload	Reload a program group. **Note:** This deletes all customized entries!

Right-click menu – further functions

Function	Description
Add	Add program group
Remove	Remove selected program group
Development	Open program groups: Development window
Export to ZIP file	Create ZIP file to export definition
Import from ZIP file	Create ZIP file to import definition
Copy in Clipboard	Copy information on clipboard
Insert from Clipboard	Insert copied information from clipboard
Copy in Clipboard (alt)	
Insert from Clipboard (alt)	
Program group load	Load program group

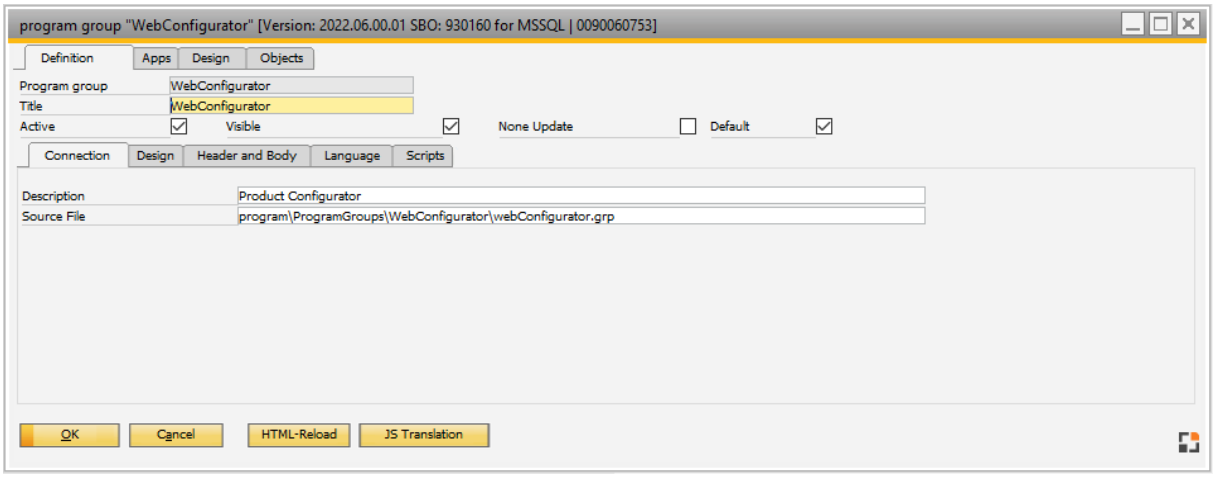
3.4.2.5.1 Program Group Development

PATH: Administration > Utilities > Beas Manage Server > Development > **Open**

A program group is a box containing single apps. An application may be for example the Terminal program which makes various functions available.
NOTE: Do not change the definition of Standard Groups!

© 2026 Boyum IT Solutions A/S

Here it is possible to manage and adjust the selected Program Group:



Window webprogram_edit.psr

Upper tabs

Tab	Description
Definition	First tab with basic settings, displayed below.
Apps	Display and edit functions (Apps).
Design	Open tab to edit design. Only for Terminal1 - Not supported anymore
Objects	Open tab to edit App-Objects - Not supported anymore

Field	Description
Program group	Name of the app.
Title	Displayed title.
Active	Check mark if active.
Visible	Check mark if visible.
None update	Check if no automatic update is requested.

Lower tabs

Field	Description
Connection	First tab with basic settings.
Design	Enter icon and CSS-file .
Header and Body	Definition of Header, Body and Footer (script).

© 2026 Boyum IT Solutions A/S

Language	Language for development and translation table.
Scripts	Additional possibility to enter scripts.

Field	Description
Description	Description of the application.
Source File	Define a Source file for the connection.

Buttons below

HTML-Reload: Reload HTML code.

JS Translation: JavaScript translation for all apps.

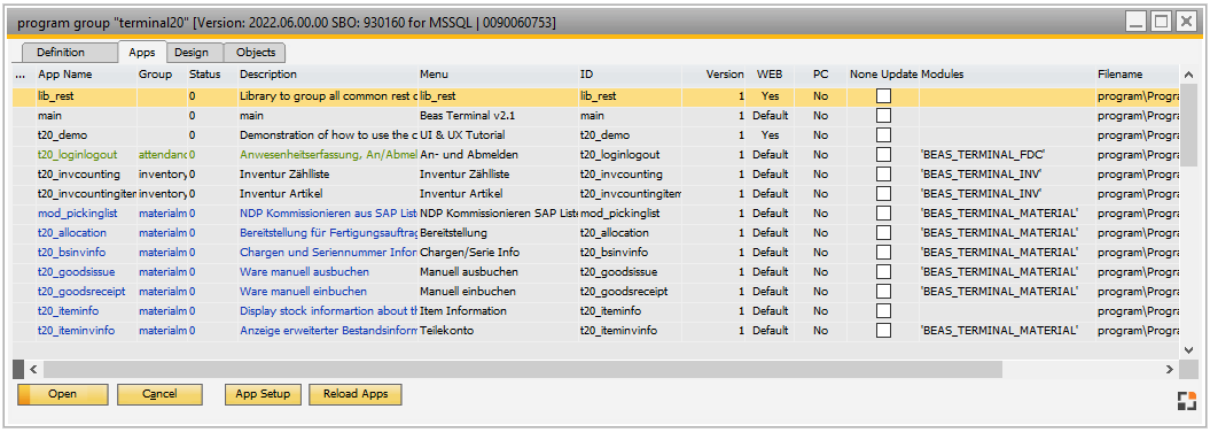
back to Program group Administration

3.4.2.5.1.1 Apps List

PATH: Administration > Utilities > Beas Manage Server > Development > **Open**

Present the list of all apps from a program group.

Here are, as an example, all apps of the program group WebApps terminal 2.0.



webwindow_browse.psr

In this window you can add your own APPS.

IMPORTANT: Do not delete or modify standard apps. The system overwrites all changes in the next update!

The following documentation is only for Program Group Terminal 2.0:

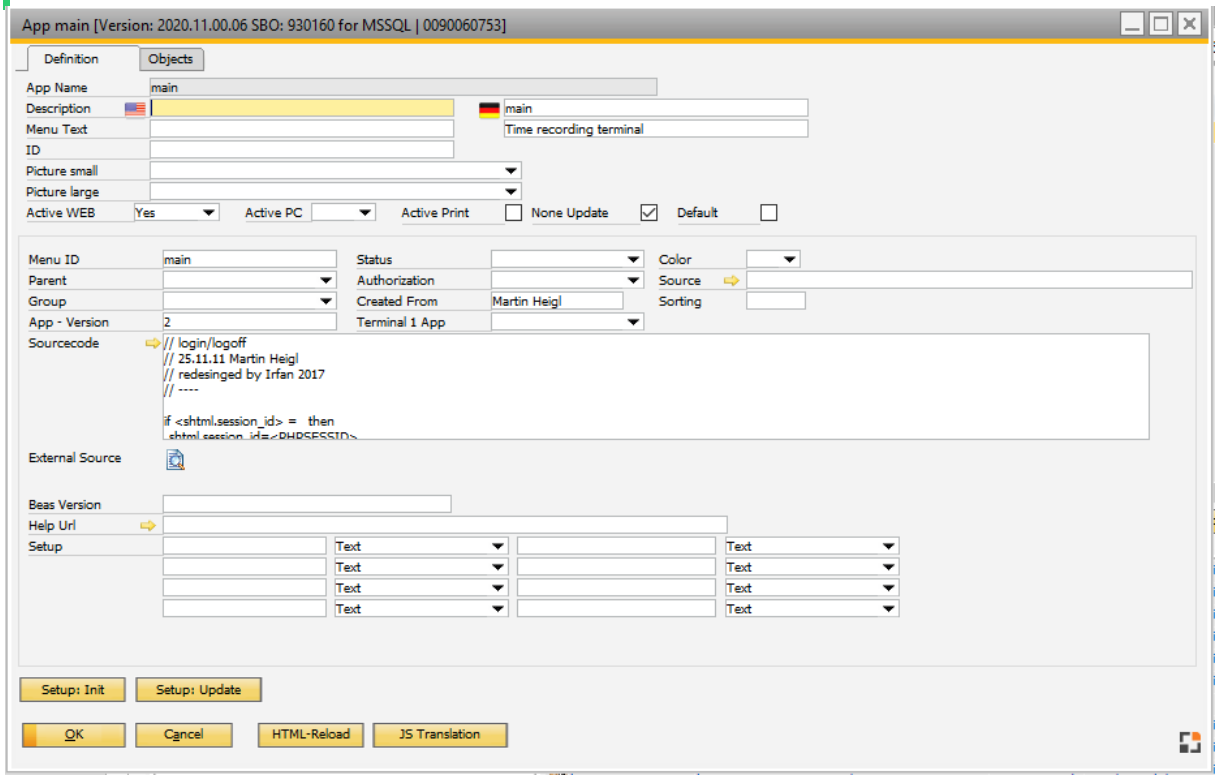
© 2026 Boyum IT Solutions A/S

Function	Description
Open	Open the Development window for an App
App Setup	Open Standard setup window for an App
Add	Create a new App in project folder
Duplicate	Duplicate the current app to project folder
Reload apps	Reload all apps in the terminal program group.

All sub-functions of the selected apps can be edited here.

Note: The "Objects" tab is not supported anymore.

PATH: Administration > Utilities > Beas Manage Server > Development > **Open** > **Open** an app in the list



Column	Description
App Name	Name of the app.
Description	Description.
Menu text	Assigned menu.

© 2026 Boyum IT Solutions A/S

Group	Functional group of apps (Inventory/Production/Attendance).
ID	Apps ID. This must be the same as the App Name.
Image small / large	Image appearing in the WebApps Main Menu. Note: WebApps Version 2 supports only one variant. The files are located in `program files(x86)\beas software\beas\program\httpserver\beasweb\static\gfx`
WEB	Check mark if app is available for WEB.
PC	Check mark if app is available for the Desktop Terminal. Note: Only for program group "Terminal".
Active Print	Activate to make the Print solution available for this app.
None Update	Don't update as copy in a separate file (save only in database). Disable it for custom apps.
Default	Define as default app if no menu is defined.
DETAIL AREA	
Menu ID	ID for Menu. This must be the same as App Name.
Parent	Not supported.
Group	Define the group (material management, FDC and so on). Useful for overview.
App - Version	Define App Version. Only for information.
Status	Define development status. Only for information.
Authorization	Not supported.
Created from	As information.
Terminal 1 App	Link to Terminal 1 App (for customization it is not supported).
Color	Define color in list.
Source	Provide path and file name for copy of all definitions.
Sorting	Define sorting in the app list.
Source Code	The source code for WebApps.
External source	open the external source, which is used for the WEB APP
Beas Version	Not supported.
Help Url	Not supported.

© 2026 Boyum IT Solutions A/S

Setup	Define up to 10 settings which you can save in the app settings. This definitions are saved in the local database.

Buttons

Field	Description
Open	Open authorization group to assign available apps.
Remove	Delete the selected authorization group.
Copy	Copy an app to clipboard as compressed string. Then it can be transferred to a customer via remote access or email.
Insert	Insert an app from clipboard. Accessible via **Program group Administration > Program groups development > App > Button "Insert"** You can copy received by email the app to the clipboard, insert and confirm the name. It can be also inserted with another name. Note: If this app already exists, you must delete it first.
Description	Open online help to get a description of the app.
Apps Setup	Open extended settings of a single app.

Right-click menu

same functions as buttons below, additionally:

Field	Description
Level left	Display in Terminal: button is aligned on the left.
Level right	Display in Terminal: button is aligned on the left.

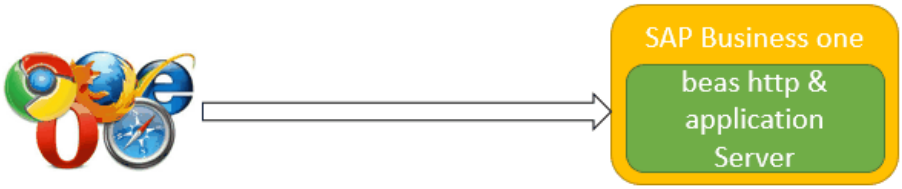
Right-click on App Name: color settings

back to App development

3.4.2.6 Internal HTTP server

Beas has an integrated, complete HTTP Server

© 2026 Boyum IT Solutions A/S



This allows a simple installation and usage of WEB applications
Terminal 2.1, WebConfigurator and all internal services are compatible only to internal HTTP Server

For an example of use ***see*** WEB Server

Advantages:
- Fast, because no additional interfaces are required
- Simple to use
- Fully integrated

Without the use of a Proxy server the limitations are:
- Only HTTP, no HTTPS
- Can only transmit the images one after another instead of parallel

In general, the use of the internal WEB server is recommended.
Without additional services this is completely sufficient services at internal use or for presentation.

But a Proxy-server is required if a public access is required or larger image file is transmitted. The setup for this is very simple.

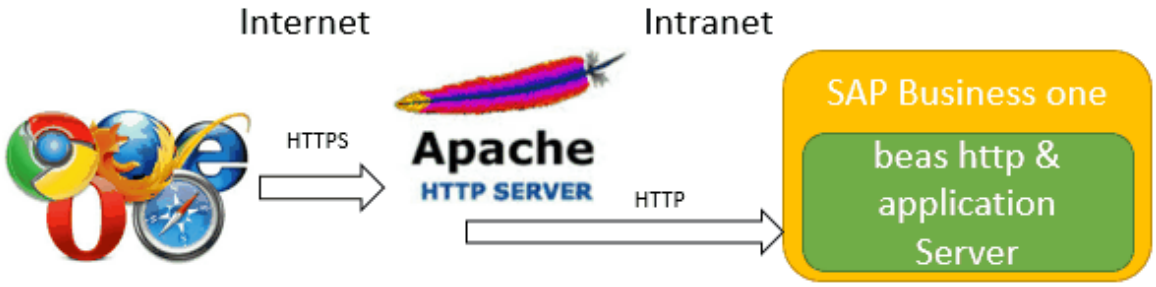
Display of different possibilities

Only internal Beas WEB Server
The client communicates directly with Beas AddOn, because this provides the HTTP Server at the same time.
Because the interface can be renounced, the following changes:
a) Setup and support of Apache HTTP Server are not required
b) Faster processing of Inquiries
But no HTTPS is available
Good for intranet solution or presentation

© 2026 Boyum IT Solutions A/S

Apache as Proxy Server

The HTTPS protocol has to be used if an internet access is required. The apache HTTP server should be used. This routes the HTTPS inquiries to Beas http and application server using HTTP



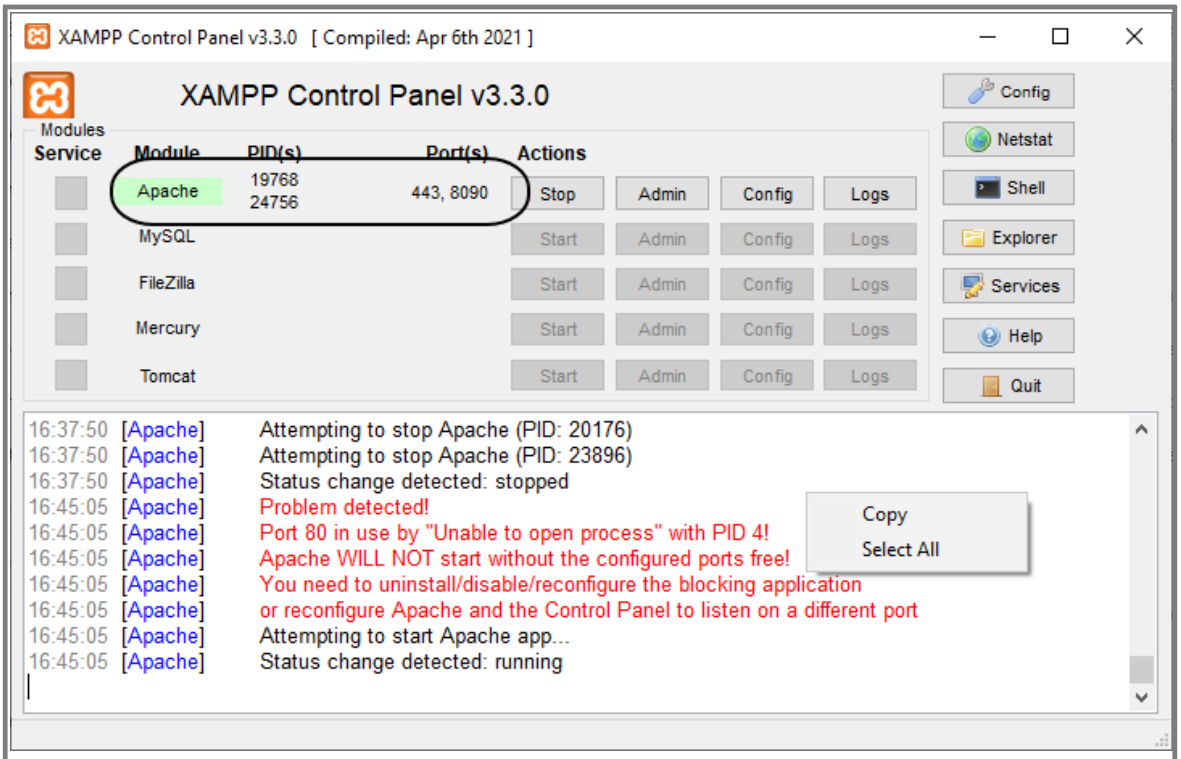
- HTTPS configuration steps for Beas with XAMPP

Internal Beas Web server only works with HTTP protocol and by default it does not support HTTPS connections. To solve this limitation, you can add a simple configuration by using XAMPP software as a proxy.

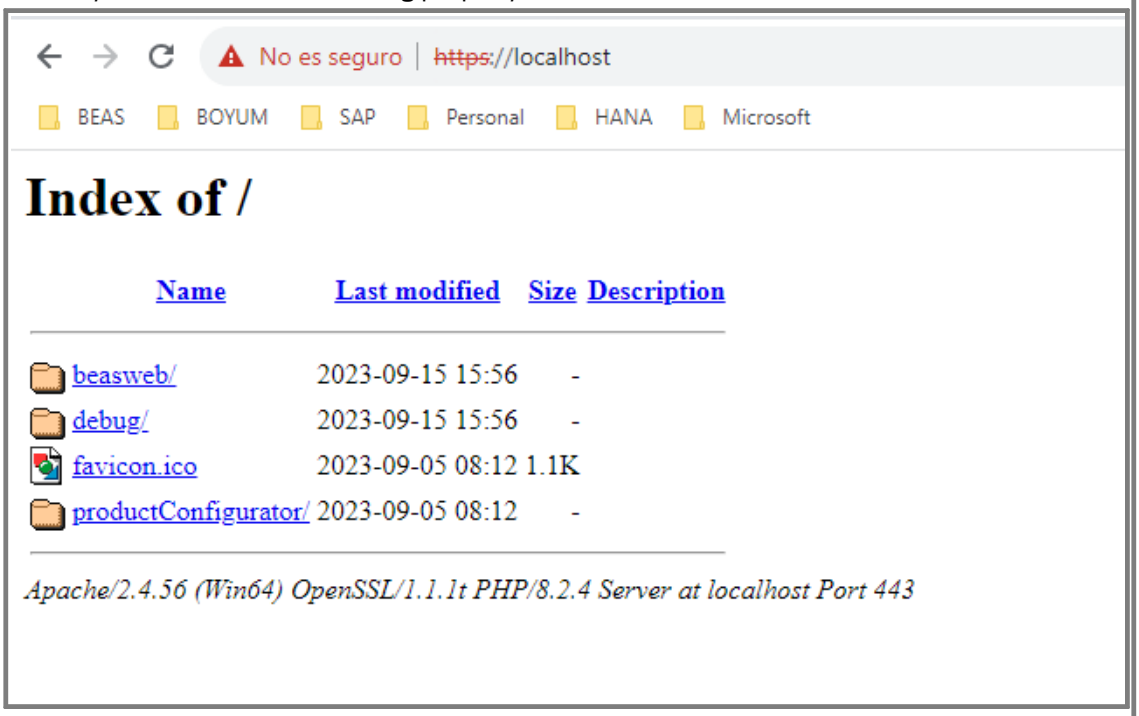
Follow the steps below:

1. Install XAMPP (the latest version)
2. After installation, the first step is to validate that the server is up and running without any problems:

© 2026 Boyum IT Solutions A/S



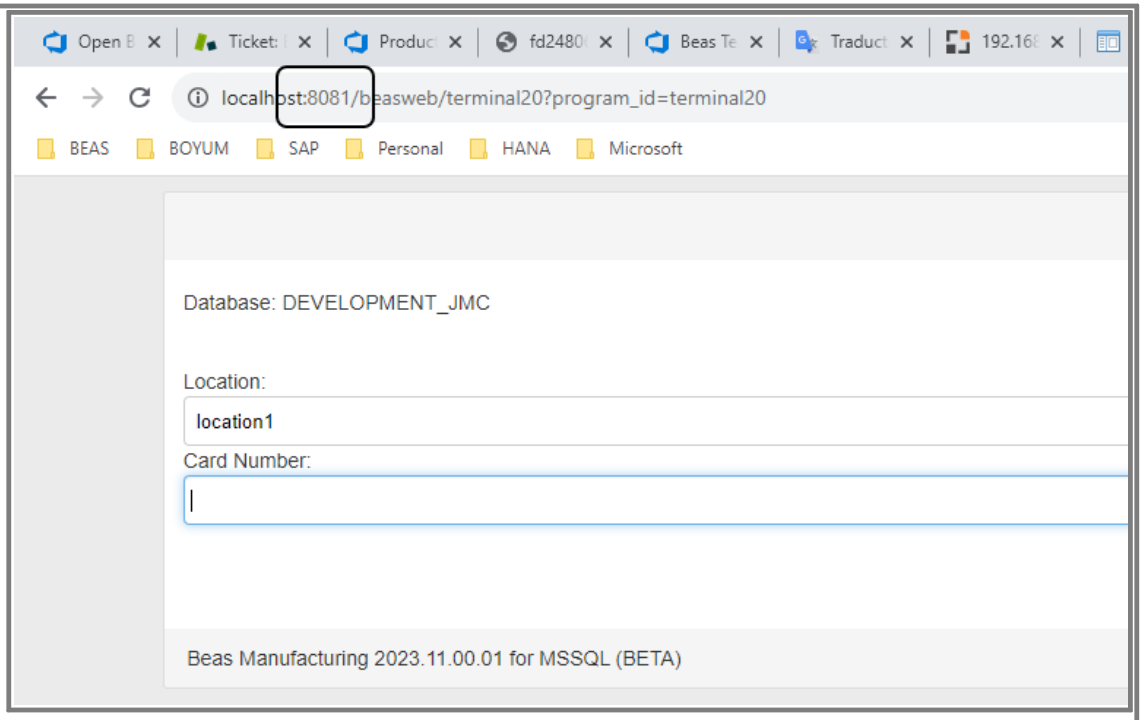
3. Verify that local host is working properly:



4. After validating that XAMPP is installed and running, start the Beas Web Server and check the port if Beas is working.

In this example below it is configured as port 8081:

© 2026 Boyum IT Solutions A/S



5. Start the configuration of XAMPP to redirect requests to Beas Web.

6. Modify httpd.conf to uncomment the following text: ule proxy_http_m

```
#LoadModule proxy_html_module modules/mod_proxy_html.so
LoadModule proxy_http_module modules/mod_proxy_http.so
#LoadModule proxy_http2_module modules/mod_proxy_http2.so
```

7. Start/Stop XAMPP to reload configuration.

8. Modify httpd-ssl.conf to add the rule in the system to redirect incoming requests from XAMPP to BeasWeb.

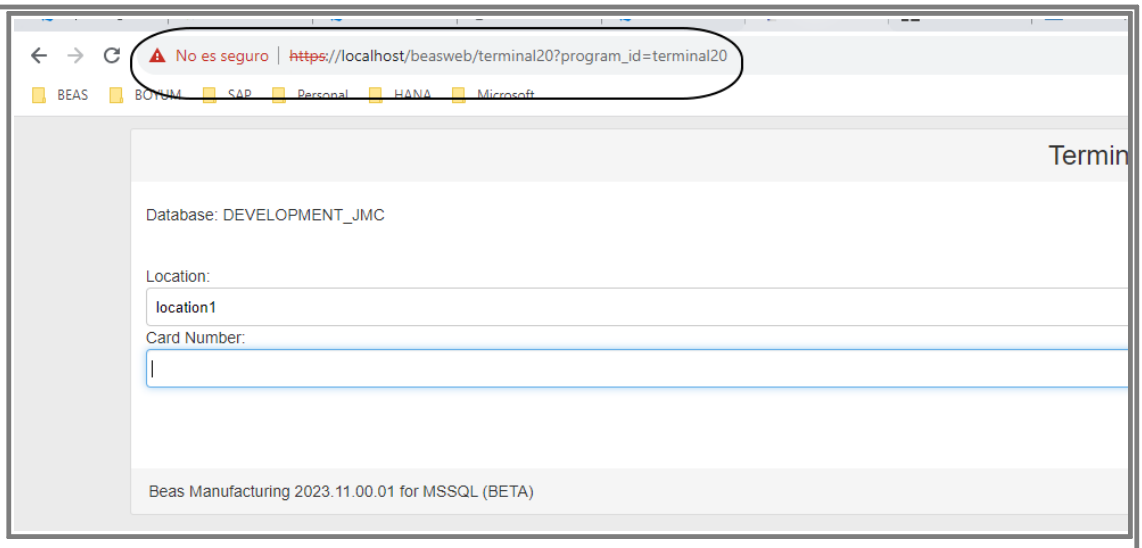
9. Add the following lines before the end of the file (port should be the port where Beas is running):

```
ProxyPass / http://localhost:8081/
ProxyPassReverse / http://localhost:8081/

</VirtualHost>
```

10. Start/Stop XAMPP to reload the modified configuration.

11. Load Beas via HTTPS, and everything should be operating properly:

© 2026 Boyum IT Solutions A/S



Continue configuration by generating certificates to make http secure.

OPTIONAL:

You we can also get the advantages of XAMPP to load some static information like icons from Beas in parallel mode.
To configure this you have to:

1. Modify variable "DocumentRoot" defined in file "httpd-ssl.conf" to determine the path where the system is going to load static resources. The Web server should have access to the defined folder.

```
DocumentRoot "c:/program files/beas software/beas/httpserver"
```

2. Add the ProxyPass lines to redirect the requests to the correct places:

```
ProxyPass "/beasweb/assets21" !
ProxyPassReverse "/beasweb/assets21" !
ProxyPass "/beasweb/static" !
ProxyPassReverse "/beasweb/static" !
```

3. Stop/Start XAMPP to reload the modified configuration.
4. Reload the Beas web page through HTTPS.

© 2026 Boyum IT Solutions A/S

- Start Beas with HTTP Server

Beas can be started directly as HTTP Server
For this in the directory c:/program files(x86)/beas software/beas
start Beas with the parameter /httpserver=[port]

Example:

beas.exe /httpserer=8080 user=manager pwd=manager database=training

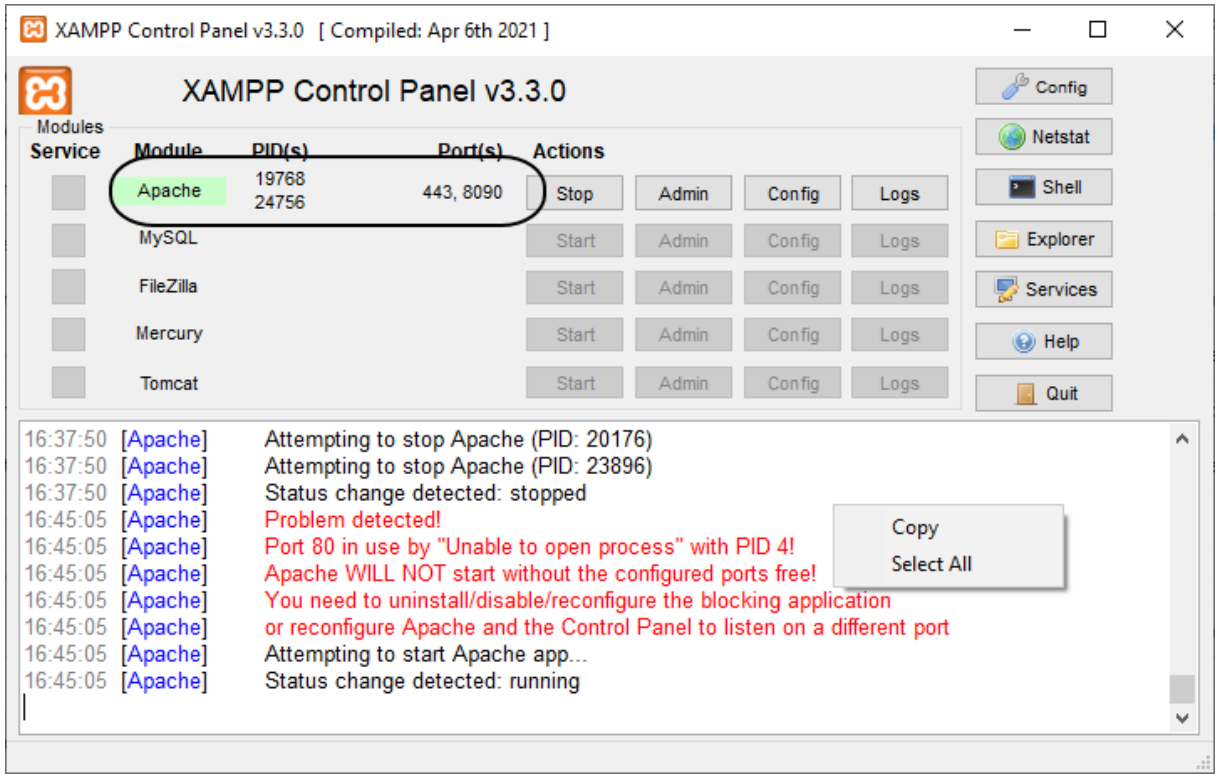
Beas can now be used normally. But the HTTP server runs in the background and Beas can be addressed directly.

3.4.2.6.1 HTTPS configuration for Beas

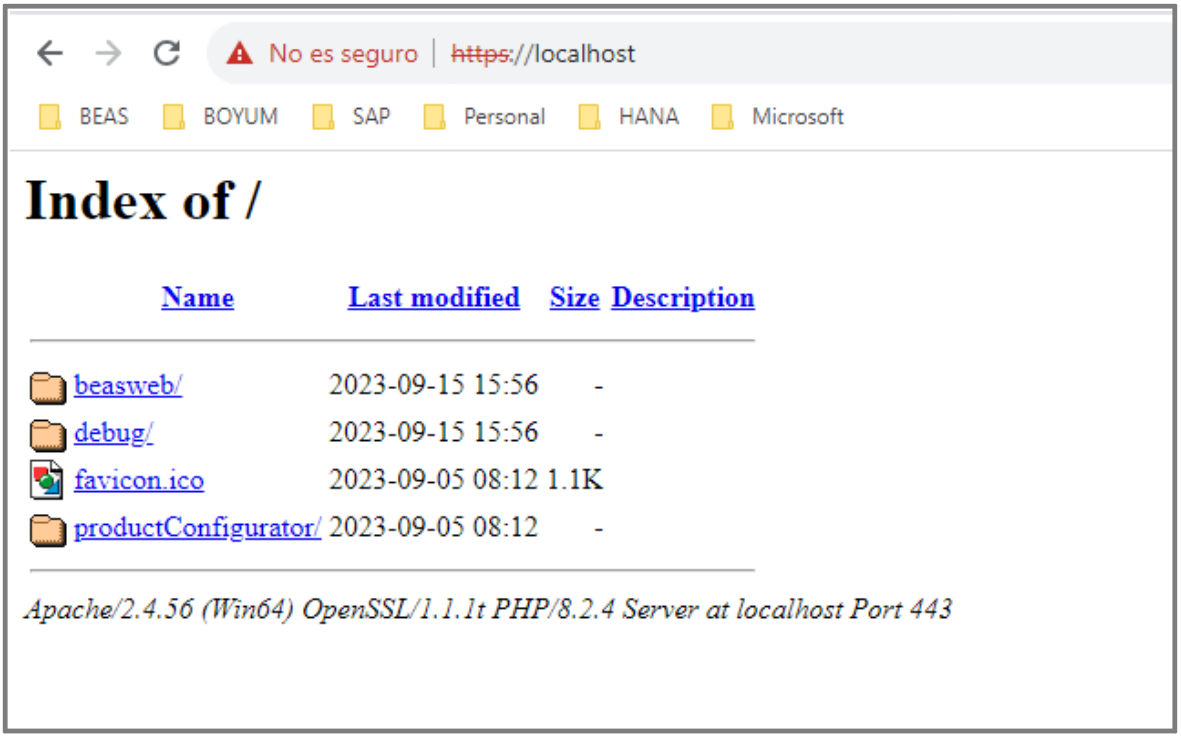
Internal Beas Web server only works with HTTP protocol and by default it does not support HTTPS connections. To solve this limitation, you can add a simple configuration by using XAMPP software as a proxy.
Follow the steps below:

1. Install XAMPP (the latest version)
2. After installation, the first step is to validate that the server is up and running without any problems:

© 2026 Boyum IT Solutions A/S



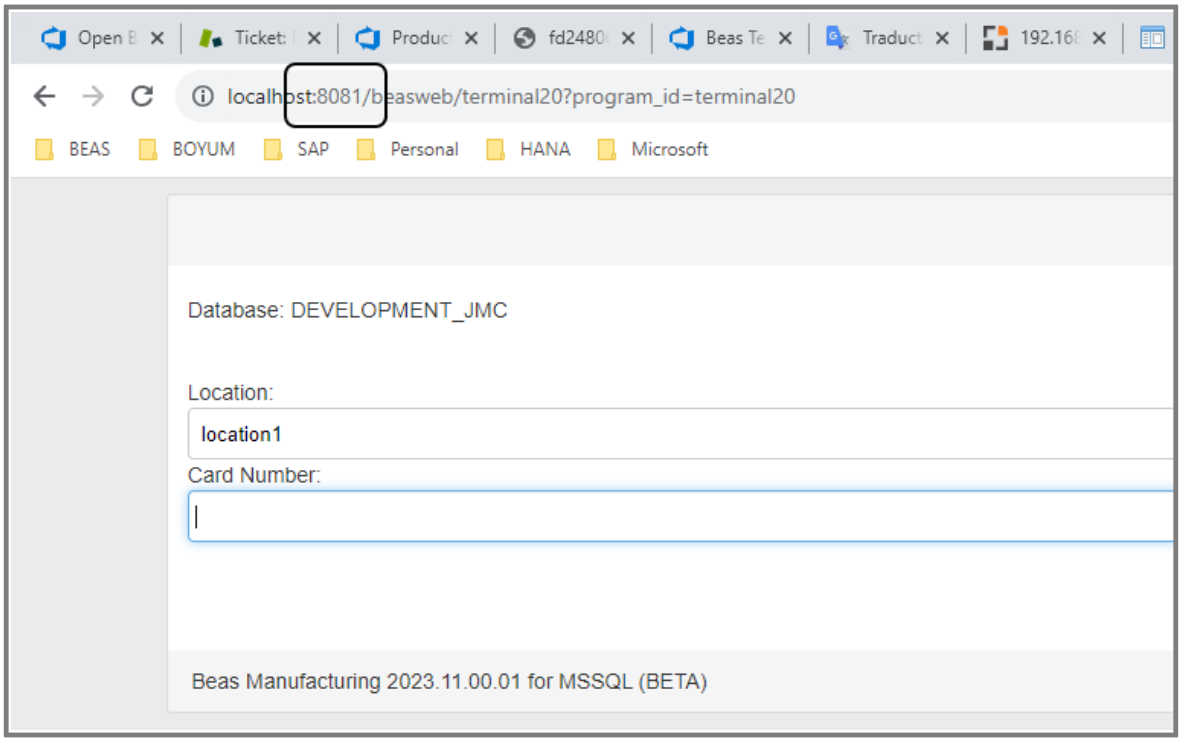
3. Verify that local host is working properly:



4. After validating that XAMPP is installed and running, start the Beas Web Server and check the port if Beas is working.

In this example below it is configured as port 8081:

© 2026 Boyum IT Solutions A/S



5. Start the configuration of XAMPP to redirect requests to Beas Web.
6. Modify httpd.conf to uncomment the following text: ule proxy_http_m

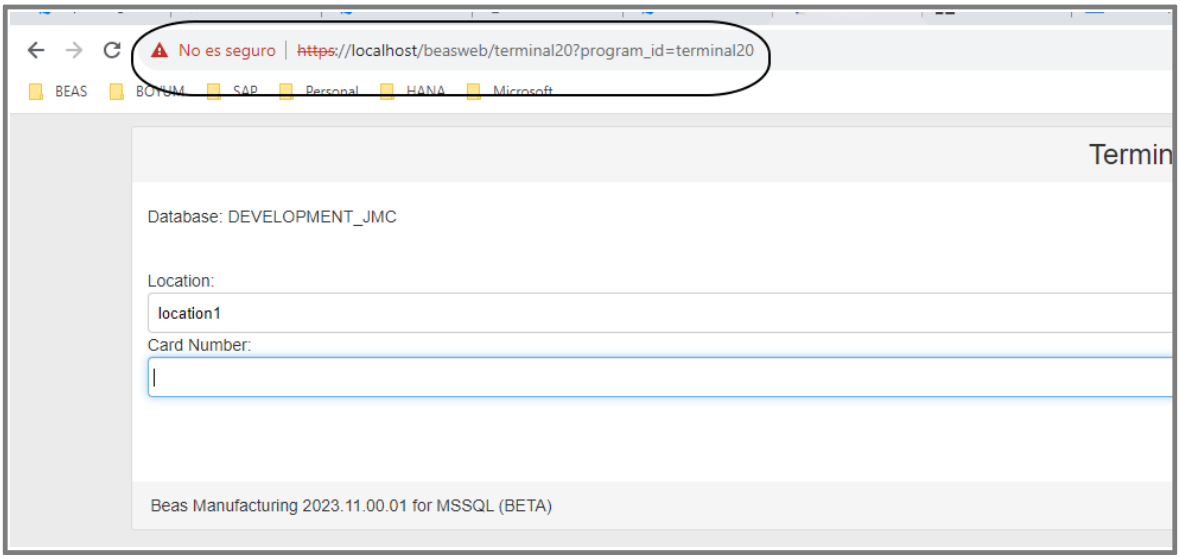
```
#LoadModule proxy_html_module modules/mod_proxy_html.so
LoadModule proxy_http_module modules/mod_proxy_http.so
#LoadModule proxy_http2_module modules/mod_proxy_http2.so
```

7. Start/Stop XAMPP to reload configuration.
8. Modify httpd-ssl.conf to add the rule in the system to redirect incoming requests from XAMPP to BeasWeb.
9. Add the following lines before the end of the file (port should be the port where Beas is running):

```
ProxyPass / http://localhost:8081/
ProxyPassReverse / http://localhost:8081/

</VirtualHost>
```

10. Start/Stop XAMPP to reload the modified configuration.
11. Load Beas via HTTPS, and everything should be operating properly:

© 2026 Boyum IT Solutions A/S



Continue configuration by generating certificates to make http secure.

OPTIONAL:

You we can also get the advantages of XAMPP to load some static information like icons from Beas in parallel mode.
To configure this you have to:

1. Modify variable "DocumentRoot" defined in file "httpd-ssl.conf" to determine the path where the system is going to load static resources. The Web server should have access to the defined folder.

```
DocumentRoot "c:/program files/beas software/beas/httpserver"
```

2. Add the ProxyPass lines to redirect the requests to the correct places:

```
ProxyPass "/beasweb/assets21" !
ProxyPassReverse "/beasweb/assets21" !
ProxyPass "/beasweb/static" !
ProxyPassReverse "/beasweb/static" !
```

3. Stop/Start XAMPP to reload the modified configuration.
4. Reload the Beas web page through HTTPS.

© 2026 Boyum IT Solutions A/S

3.4.2.6.2 Certificate generation for secure http

With the generation of certificates, you can make your http connection secure. Follow the steps below:

1. Install a program to generate certificates. You can use software from the github page: https://github.com/FiloSottile/mkcert/releases

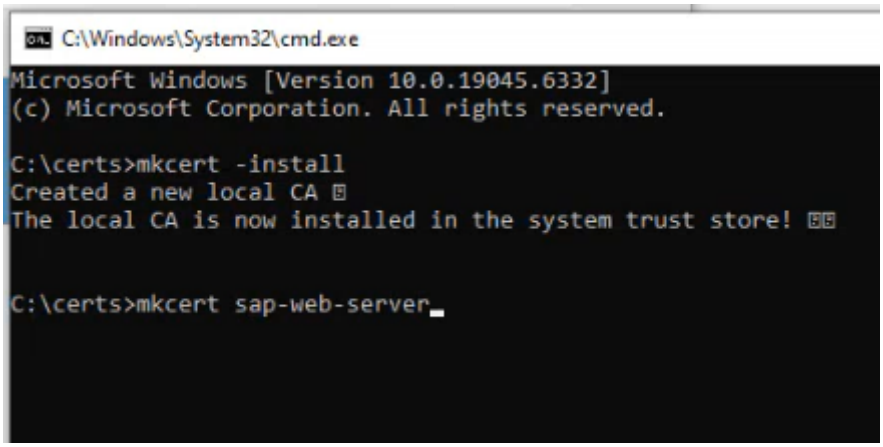
2. To execute certificates, create a folder in your computer named "certs" or similar.

3. Download the certificate file and rename it.

4. Execute the file in the Command prompt:

Insert "`mkcert - install`" command to generate the certs.

The system returns a message: "`Created new local CA`":

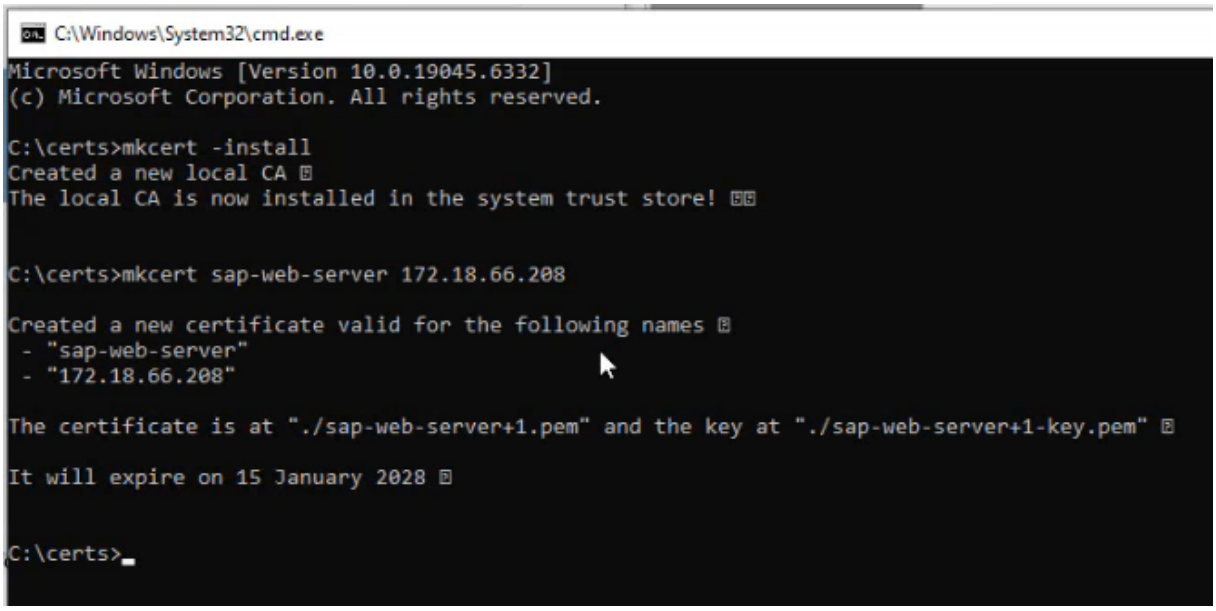


5. Copy the link or IP address and add it in the command prompt (***see*** image above).

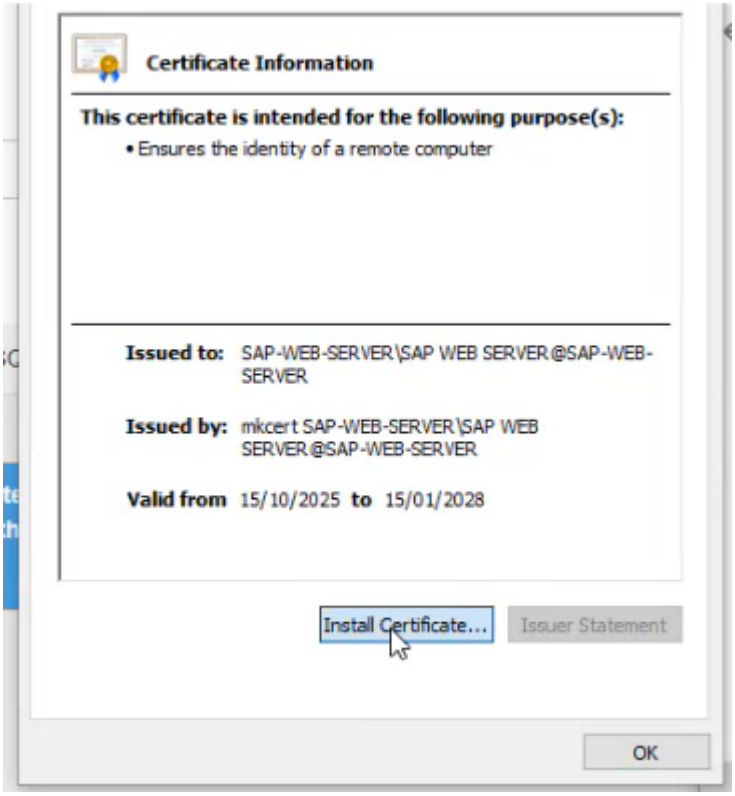
You can also generate more than one certificate by typing the links/IP addresses after each other.

The system then returns the message: "`Created a new certificate valid for the following names: XXX`" (***see*** image below):

© 2026 Boyum IT Solutions A/S



6. To install the certificates, change the extension of the file in the cert folder from ".pem" to ".crt", double-click the file, and click the "**Install Certificate...**" button in the opening Certificate window. The system displays the related certificate information. Then click "**Install Certificate...**" again:



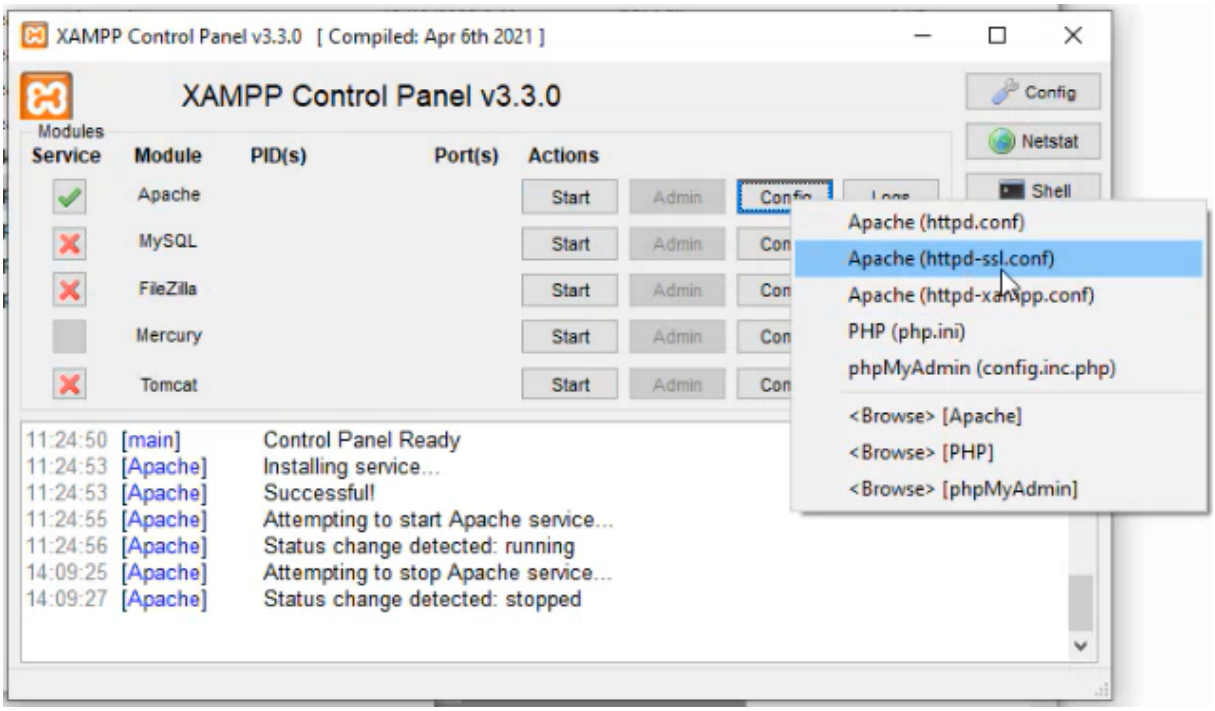
7. Select User, click **Next** and add the location to store the certificate: the "Trusted Root Certification Authorities" folder. This finishes installation.

© 2026 Boyum IT Solutions A/S

You can check if installation was successful in the "Manage user certificates" Windows Control panel option. Go to the "Trusted Root Certification Authorities" folder, and check it for certificates starting with "mkcert".

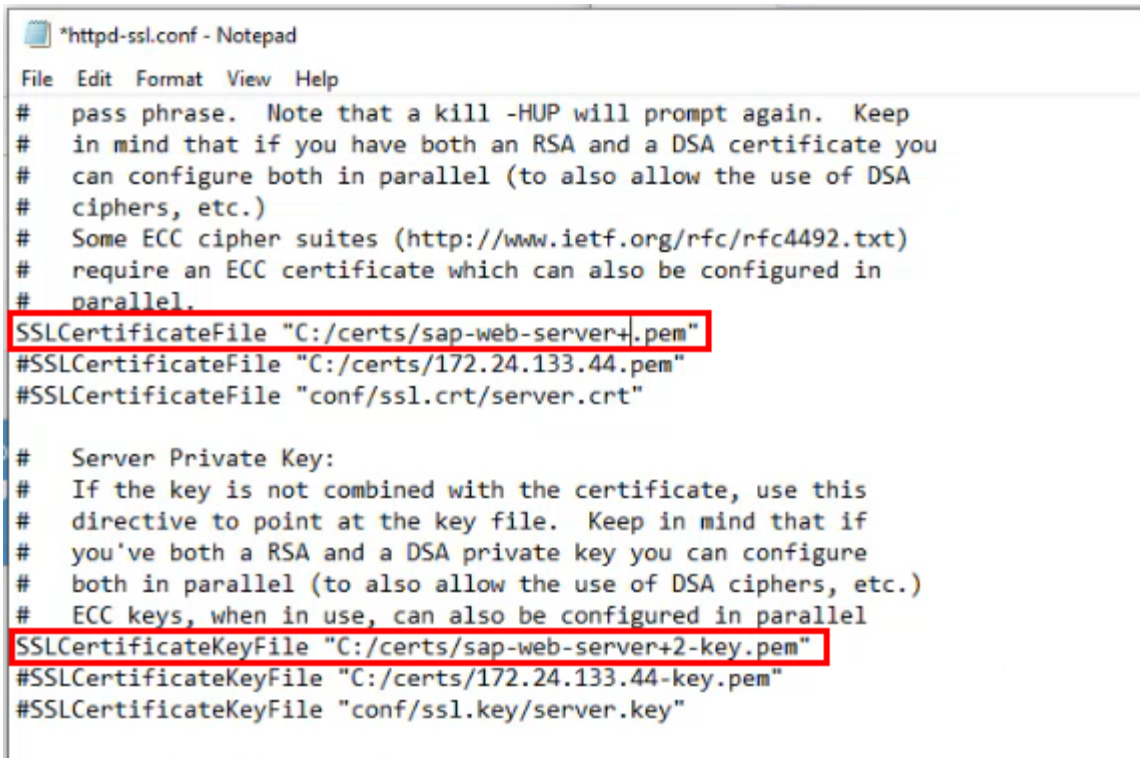
8. Rename the certificate file to the original ".pem" extension.

9. Go back to Apache configuration of http, and open the configured Virtual host:



10. Find the SSL certificate file and SSL Certificate keyfile, and place a **#** before the default ones there, and delete the **#** from before the ones you just generated:

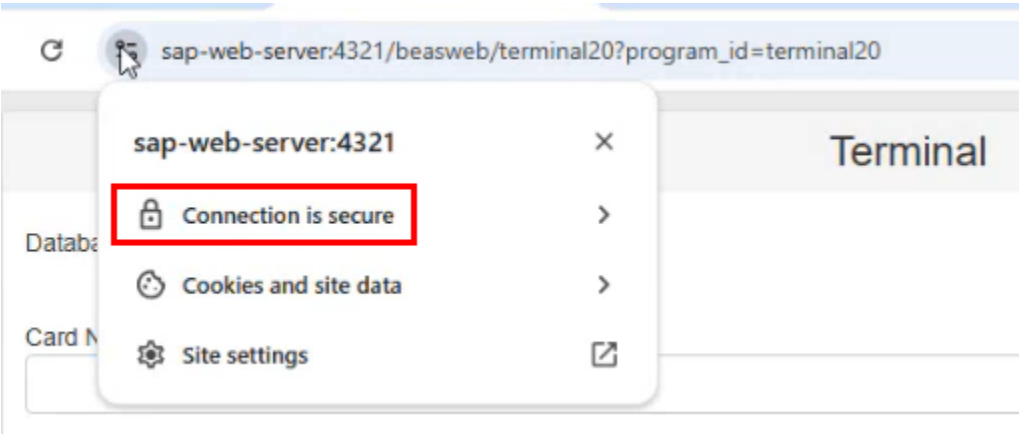
© 2026 Boyum IT Solutions A/S



11. Save the configuration.

12. Click **Start** in the XAMPP Control Panel, and open the web server with the current port number.

The result should be:



IMPORTANT: If Chrome was open during configuration, close and reopen it.

Note: When updating the .mtar files, provide the https link in the "Beas Web Url ..." field.

See

Internal HTTP server

HTTPS configuration for Beas

© 2026 Boyum IT Solutions A/S

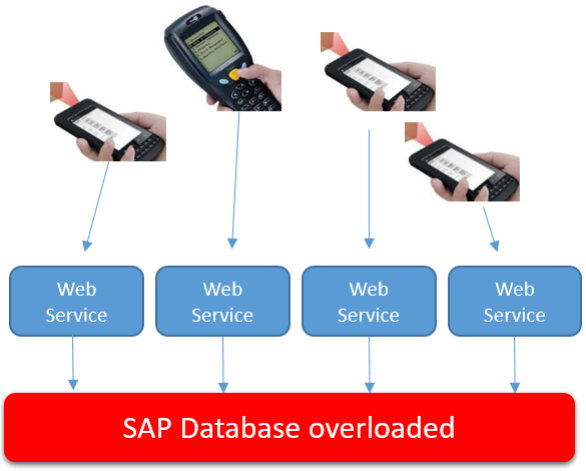
3.4.2.7 beas common service

The functionality of Beas Common Service

- print asynchronously (Example WEB Application)
- create all SAP transactions asynchronously (Example WEB Application)
- simple interface to third applications.

The concept of asynchronous operation

If lots of clients are working in **parallel** with the SAP Transaction on one SAP Table, it does not work because SAP must lock the database for every transaction.
This working tends to get unstable causing long waiting time for clients.

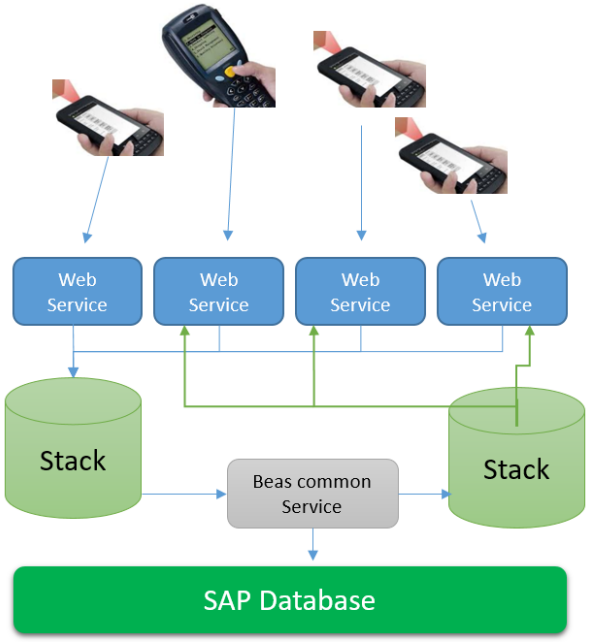


In the Beas common service work is carried out with a stack. Every service sends the transaction command in this stack.
The Beas common service executes this in SERIAL and not PARALLEL.

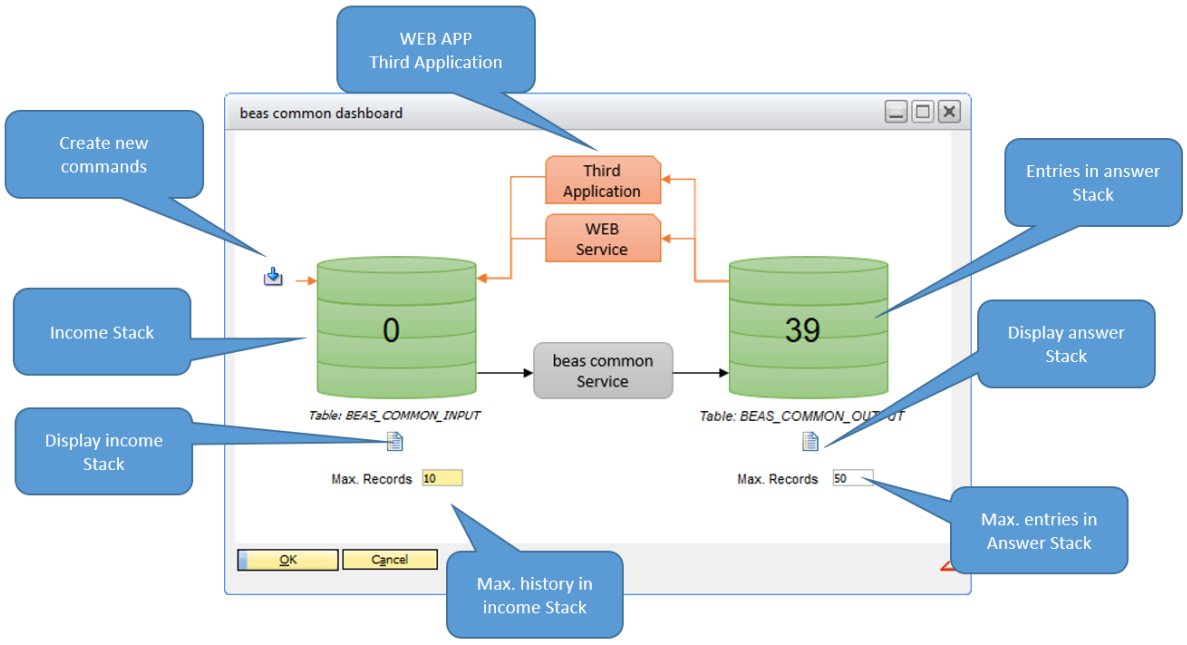
This does not create deadlocks or an overload of the database and results in stable execution.
The worker does not need to wait for a response and can continue since the web service does not execute the transaction itself.

The Beas common service sends the answer (good, docentry number, error message etc.) in an answer stack.
The client can check if an answer is available at any moment, and can display it in the window (= synchronous working).

© 2026 Boyum IT Solutions A/S

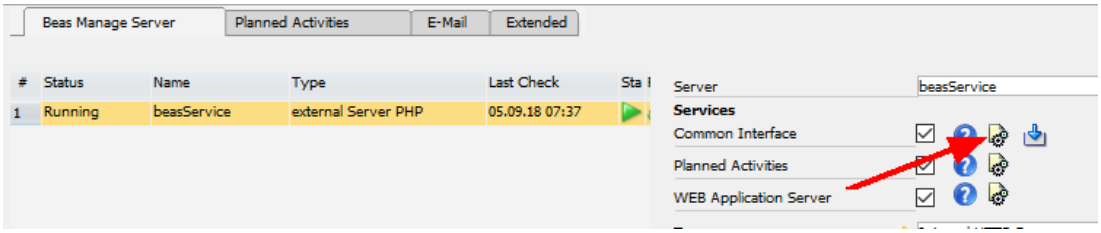


In Beas you can see the current stack in the Beas common dashboard.



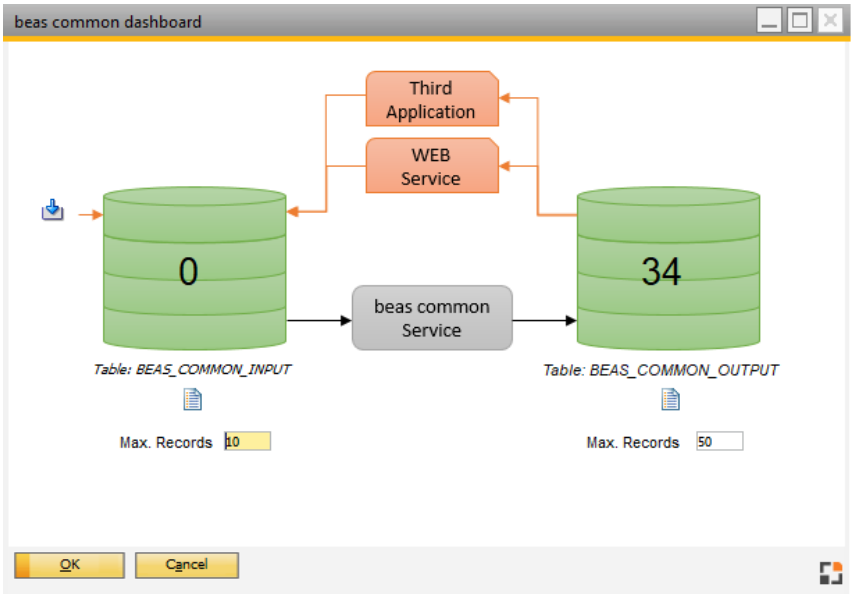
To open the Beas common dashboard from Beas manage server, click on the configuration Icon ***see*** image below.

© 2026 Boyum IT Solutions A/S



3.4.2.7.1 beas common interface

With the Beas common interface every third application with every language can connect to Beas. The interface itself is the current database and 2 tables.



Window syste_common_dashboard.psr

Table BEAS_COMMON_INPUT

In this table you can write your command to execute

If you define a request id, beas will write an answer in BEAS_COMMON_OUTPUT

Priority: Time critical functions may be granted higher priority. The beas common service always executes stack records with high priority first.

Details

Structure of the table

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>COUNTID</td><td>Serial number – automatically generated (Type int identity) and it is not to be added

*In HANA version this field is NOT identity and therefore this field has to be filled, as well.
This query can be executed to return next CountID value:

<code>select coalesce(max("COUNTID"),0) + 1 from "BEAS_COMMON_INPUT"</code></td></tr>
<tr><td>COMMONTYP</td><td>Define command for
<table>
<tr><th>Command</th><th>Description</th></tr>
<tr><td>script</td><td>Execute BeasScript</td></tr>
<tr><td>json</td><td>Post BSL command "Parameter1" with Body "TEXT PARAMETER"
See Beas service layer with Beas common service</td></tr>
<tr><td>print</td><td>Print document</td></tr>
</table></td></tr>
<tr><td>PARAMETER1</td><td>post command, if COMMONTYP = json
example Issue, Receipt, Transfer ...</td></tr>
<tr><td>LOCALCOMMAND</td><td>0 = command to Server, 1 = command to the client "stationid". This parameter is optional. Normally it is not necessary</td></tr>
<tr><td>PARAMETER2 ...9</td><td>related to commontyp</td></tr>
<tr><td>TEXTPARAMETER</td><td>beas script or json string

if you work with json, insert only the json string, example</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description

	{
	"DocumentLines": [
	{"ItemCode": "po_baetman",
	"WhsCode":"01",
	"BatchNumbers":[
	{"DistNumber":"BT-014","Quantity":2 },
	{"DistNumber":"BT-015","Quantity":5}
	]
	}
	]
	}
	More see beas service layer documentation

DATEPARM1..2, DECIMALPARM1..2 DocNum, LINENUMBER, LINENUMBER2	Not supported
STATIONID	Station ID on which the script must be executed.
REQUESTID	A unique request ID. If available, Beas creates an answer in BEAS_COMMON_OUTPUT with the same requestid
CLOSED	Status of this record 0 = new command, 1 = the command was executed Attention After some minutes beas will delete the line, if this is a closed line
UDF1...UDF4	Not supported in the future.
PERS_ID	Executed by Personnel Entry ...
PRIOR	Priority 0=normal, 2=high
PROGRAM_ID	WEB APP Program ID
WINDOWNAME	WEB APP App ID
SESSION_ID	WEB APP Session
LOCATION_ID	WEB APP Location ID
TimeLife	Time Life of this record.

© 2026 Boyum IT Solutions A/S

Field	Description
STATIONNAME	Name of station, which sent this command.

Bidirectional working: Table BEAS_COMMON_OUTPUT

In this table you can read the answer from beas common service

If you defined a request id, you can read the answer which is marked with same Request id

Details

Strucuture of the table BEAS_COMMON_OUTPUT

Field	Description
COUNTID	Serial number – automatically generated (Type int identity) and it is not to be added *In HANA version this field is NOT identity and therefore this field has to be filled, as well. This query can be executed to return next CountID value: `select coalesce(max("COUNDID"),0) + 1 from "BEAS_COMMON_INPUT"`
COMMONTYP	Command type – depending on the executed command
ANSWERTYP (int)	Answer as number
ANSWERTEXT	Answer as text
PARAMETER1	Additional Return Value, for example docentry number
STATIONID	Response comes from Station "XY"
REQUERSTID	If the REQUESTID defined in BEAS_COMMON_INPUT the system generate an entry after executing in BEAS_COMMON_OUTPUT with same REQEUSTID Use this for bidirectional communication In BeasScript you can read the RequestId in field is_requestid
CLOSED	0 = unreaded, 1 = answered

© 2026 Boyum IT Solutions A/S

Field	Description
	Attention: If the application reads the answer it must set the flag to 1 or must delete the entry

Execute own Scripts

It is possible to execute every BeasScript. Functions not possible are
"open window"
"questions"
"messageboxes"
and any other functions related to user interface as it is a service

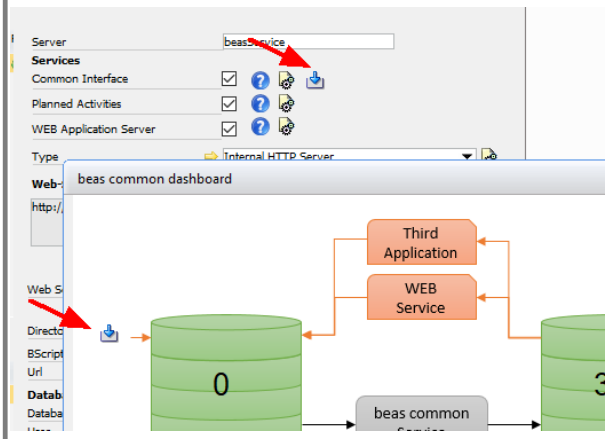
Only the following line can be inserted in the program:

```
insert into BEAS_COMMON_INPUT (commontyp,textparameter) values ('script','[[the beas script]]')
```

To receive an answer, the answers must be defined in the script. ***See*** Beas common reference – Script
The field BEAS_COMMON_INPUT.REQUESTID must also be filled with an unique value (for example time stamp with milliseconds)

For testing and creating C# Core it is possible to use the Beas common service test window.

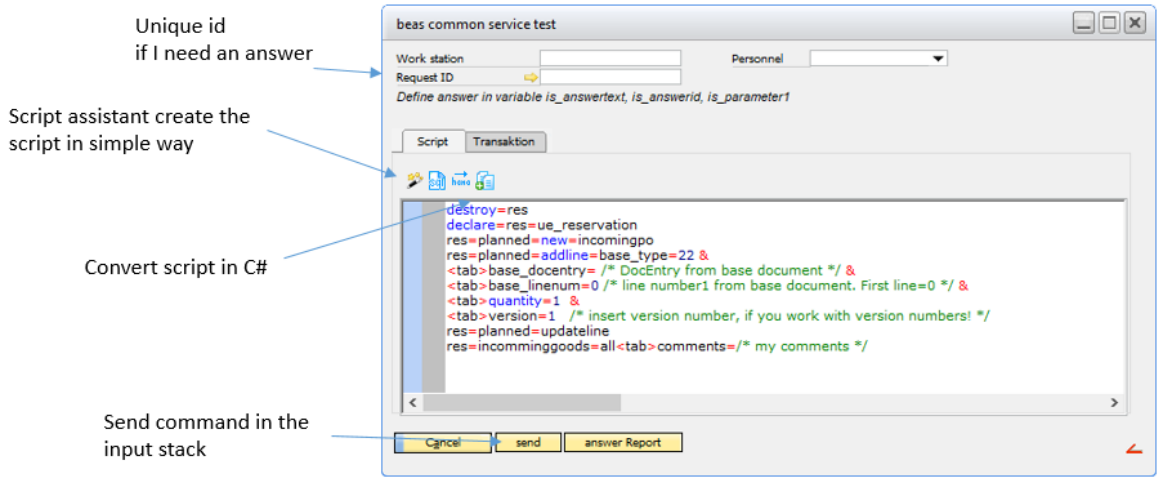
You can test this function with the Beas common test window.
you can open this in Beas manage server – click on marked icon or
Beas common dashboard – marked icon



© 2026 Boyum IT Solutions A/S

This icon opens the Beas common service test.

With the script assistant it is possible to create lot of different scripts, e.g. create work order, create time receipt.



With "Convert script in C#" it is possible to create the SQL Statement for a C# application or other.

Insert this script in the application and replace the place holder:

```
String sql = "insert into \"BEAS_COMMON_INPUT\"";
  sql += "(\"COMMONTYP\", \"PARAMETER1\", \"TEXTPARAMETER\") values('script', '',\r\n";
  sql +="destroy=res\r\n";
  sql += "declare=res=ue_reservation\r\n";
  sql += "res=planned=new=incomingpo\r\n";
  sql += "res=planned=addline=base_type=22 &\r\n";
  sql += "<tab>base_docentry= /* DocEntry from base document */ &\r\n";
  sql += "<tab>base_linenum=0 /* line number1 from base document. First line=0 */ &\r\n";
  sql += "<tab>quantity=1  &\r\n";
  sql += "<tab>version=1   /* insert version number, if you work with version numbers! */\r\n";
  sql += "res=planned=updateline\r\n";
  sql += "res=incomminggoods=all<tab>comments=/* my comments */\r\n";
  sql += " )";

SqlCommand command = new SqlCommand (sql,connection);
command.ExecuteNonQuery();
```

- Print Service

© 2026 Boyum IT Solutions A/S

Special web app use the common service for printing documents.

Field	ODATA Name	Description
COUNTID	PrintRequest	Serial number – automatically generated (Type int identity) and it is not to be added *In HANA version this field is NOT identity and therefore this field has to be filled, as well. This query can be executed to return next CountID value: `select coalesce(max("COUNTID"),0) + 1 from "BEAS_COMMON_INPUT"`
COMMONTYP		Print
PARAMETER1	ReportName	Crystal: Report Name
PARAMETER2	Title	Title of this Job
PARAMETER3	PrintType	Print Type `Crystal,RTF,Script`
PARAMETER4	NumberOfCopies	Number of copies as Number. Empty=1. Only Crystal Print
PARAMETER8	Parameter	Print Variables in json format `{"Variable":"value",...}` max. 1024 chars or Crystal Report Definitions with "`crreport=x=y`" or `"NumberOfCopies"=x`
PARAMETER9	Text	RTF Text
TEXTPARAMETER	PreScript	beas script, which executing before printing starting
LOCATION_ID	LocationId	Define this, if you want to use Driver / Printer from this location

© 2026 Boyum IT Solutions A/S

Field	ODATA Name	Description
PROGRAM_ID	ProgramId	Define Program_id and windowname, if you want use default settings from this app
WINDOWNAME	AppId	

3.4.2.7.1.1 beas common reference

List of available commands (commontyp)

Depending on the commontyp other parameters must be set.
For example: in commontyp "script" the executed script is deposited in the parameter `textparameter`. Other fields are not required.

commontyp	Description

script	Execute BeasScript
	Any script is executable with this command.
	
	Example MSSQL:
	`insert into BEAS_COMMON_INPUT (commontyp,textparameter) values ('script','script line 1'+CHAR(13)+CHAR(10)+'script line 2')`
	
	Example HANA:
	select coalesce(max("COUNTID"),0) +1 into :ll_countid from "BEAS_COMMON_INPUT"
	`insert into "BEAS_COMMON_INPUT" ("COUNTID","COMMONTYP","TEXTPARAMETER") values (<ll_countid>,'script','script line 1'||CHAR(13)|| CHAR(10)||'script line 2')`
	
	The following values must be added in beas_common_input:

Field	Description
commontyp	"script"
textparameter	Executed script Note: commands messagebox and question are not executed in server mode!

© 2026 Boyum IT Solutions A/S

The following variables can be added:

Variable	Description
is_requestid	Reply to this ID (is preallocated) - Only readable variable You set this with the insert command `insert into "BEAS_COMMON_INPUT" ("COUNTID","REQUESTID","COMMONTYP","TEXTPARAMETER") values (<nextNumber>,<requestId>,'script','script line 1'||CHAR(13)||CHAR(10)||'script line 2')` In this way you become an answer in BEAS_COMMON_OUTPIT with the requestid defined in `<requestId>` and variable **is_requestid** is defined with this value
is_stationid	Reply to this station-ID, which is defined in BEAS_COMMON_INPUT.StationId
is_answerid	Answer ID (only numbers) If empty, no answer to beas_common_output
is_answertext	Answer text will only be added if is_answerid was set
is_commontyp	The commontyp to be added to the beas_common_output
is_parameter1	The parameter1 to be added to the beas_common_output

Example:

```
insert into BEAS_COMMON_INPUT (COMMONTYP,REQUESTID,TEXTPARAMETER)
values ('script',1234,

-- Clear errortext variable
'setglobal=errortext='+char(13)+char(10)+

-- Execute custom script
'protocol=error<tab>area=BCI<tab>info=<today,yyyymmdd>_<now,hhmmss
>'+char(13)+char(10)+

-- Define default values for answerid and answertext
```

© 2026 Boyum IT Solutions A/S

```
'setvar=is_answerid=0'+char(13)+char(10)+
'setvar=is_answertext=Script successfully executed '+char(13)
+char(10)+

-- Write errormessage to field answertext in case of error
'if <global:errortext> <>  then'+char(13)+char(10)+
' setvar=is_answerid=1'+char(13)+char(10)+
' setvar=is_answertext=<global:errortext>'+char(13)+char(10)+
'end if
```

post

Send a JSON Post Command

Current possible:

```
Receipt
Issue
Transfer
PurchaseDelivery
```

See Beas service layer with beas common service

Example

Type: Receipt

```
{
"DocumentLines": [
  {"ItemCode": "RM_B",
   "WhsCode":"01",
   "BatchNumbers":[
       {"DistNumber":"BT-014","Quantity":2 },
       {"DistNumber":"BT-015","Quantity":5}
           ]
   }
   ]
}
```

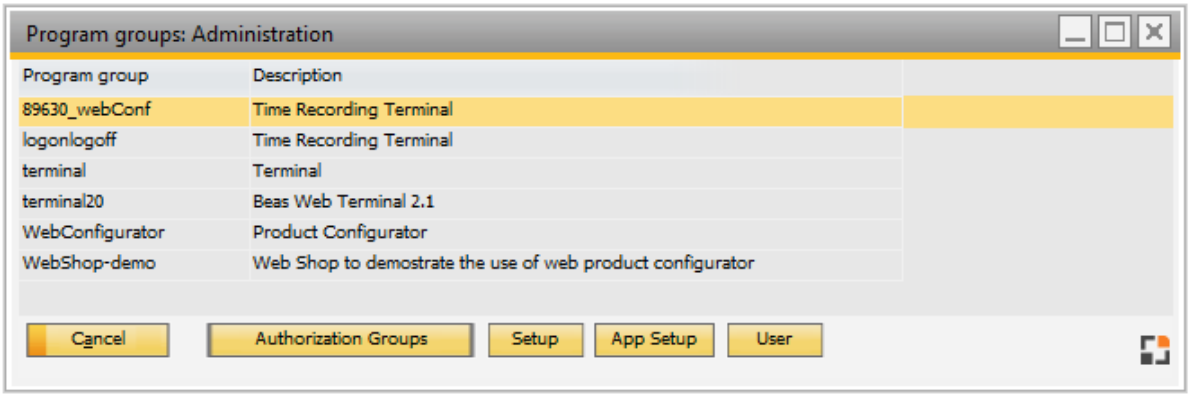
3.4.3 Program group Administration

PATH: Administration > Utilities > Program groups Administration.

List of all installed WEB Services.

An account needs to be set up, for each user as an employee only sees the features that had been released and set up for them in their language.

© 2026 Boyum IT Solutions A/S



Window webprogram_user_browse.psr

The following program groups are delivered by default:

Program group	Meaning
Terminal	All Standard App functions for WEB APP and Desktop solutions for Attendance recording, factory data capture, Material management, Quality control etc. This program group will be installed and updated automatically at a program update. Call: IP-address:port/terminal10 ***Example***: http://192.168.178.64:8080/beasweb/terminal10 ***See*** Terminal Apps Catalog
Terminal20	New web terminal. This group is to replace the "old" Terminal in the future and is only compatible with internal HTTP Service.

© 2026 Boyum IT Solutions A/S

	 Call: IP-address:port/terminal20 ***Example***: http://192.168.178.64:8080/beasweb/terminal20
Web Product Configurator	Opens a WEB shop Example together with the Product Configurator Call: IP-address:port/terminal10 ***Example***: http://192.168.178.64:8080/beasweb/WebConfigurator

© 2026 Boyum IT Solutions A/S

Here all program groups (Terminal, WEB, Client) are managed. These can contain several applications.

Column	Meaning
Program group	ID of the program group. It can contain different apps.
Description	Description.
Visible	Functional group of apps (warehouse / production / attendance.
Connection	Currently installed version.
None Update	Check mark to block automatic update.

Functions descriptions

Functions	Meaning
Authorization Groups	Opens the Authorization Groups window.
Setup	Opens the Configuration wizard settings for selected entry: Desktop/Web terminals or the Web Product Configurator.
App Setup	Opens the Apps Administration window.
Development	Opens Apps development.
Import	Import Apps via file explorer.

See

Utility programs

Terminal Apps catalog

Personnel – Master data – Terminal Functions

back to utility programs

3.4.3.1 Authorizations groups

PATH: Administration > Utilities > Program groups Administration > select "terminal" > click "Authorization Groups" button.

Window is also available from the right-click menu.

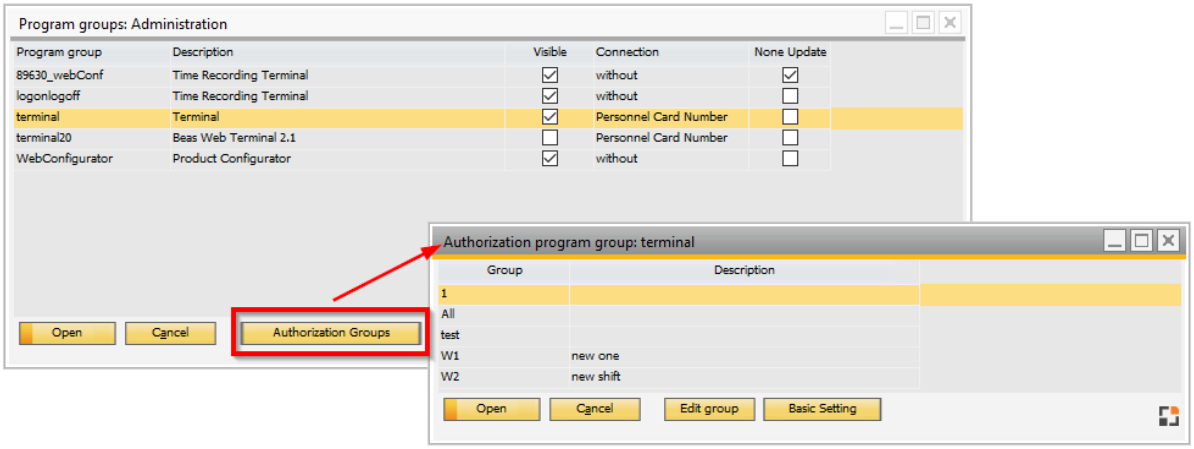
In Authorization groups you can define which menu items (apps) are available.

Authorization groups can be defined separately for every Program group.

Attention: Define all settings for "Terminal20" inside "Terminal".

© 2026 Boyum IT Solutions A/S

If an authorization group was defined for the program group "Terminal", you need to store it in Personnel master.



Window menu_group_browse.psr

Functions

Field	Meaning
Open	Open authorization group to assign available apps.
Cancel	Close the window.
Add	Create a new authorization group.
Remove	Delete selected authorization group.
Authorization Groups	Open an administration window to change authorization.

See

Program group

Personnel master

Terminal

Program group Terminal

back to Program group Administration

3.4.3.1.1 Authorization groups: assign apps

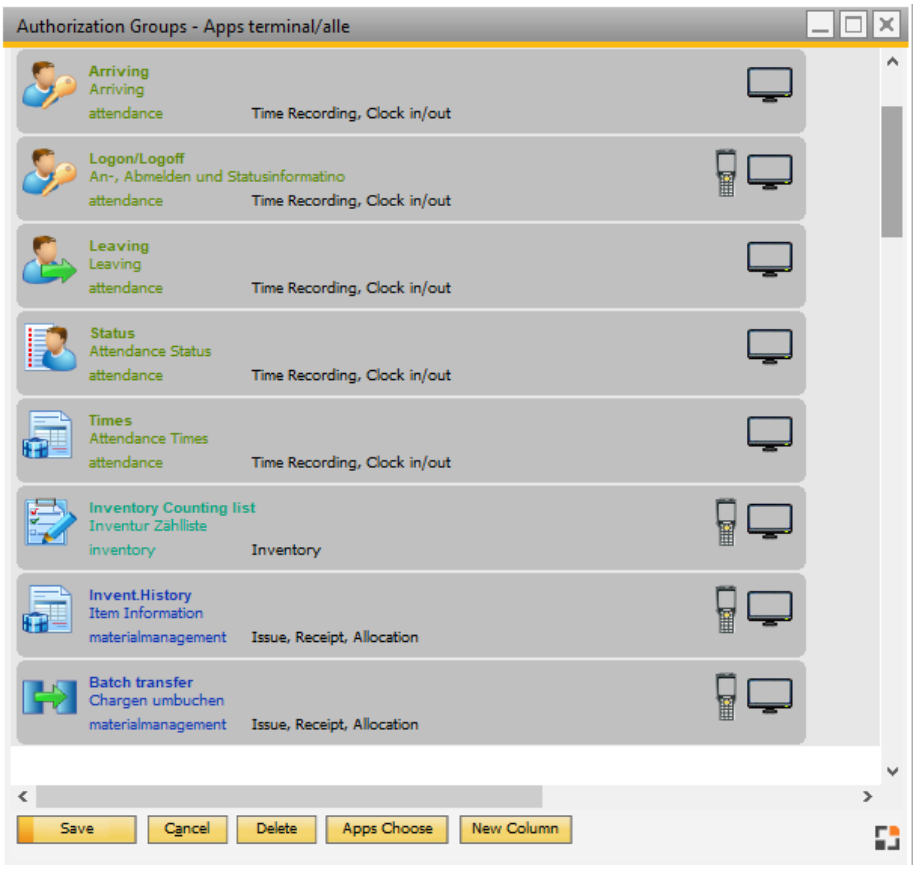
PATH: Administration > Utilities > Program groups Administration >

1. Right-click on "terminal" >
2. Select "Authorization Groups" >
3. **Open** selected group.

© 2026 Boyum IT Solutions A/S

Window is also available from the right-click menu.

In this window, the currently assigned apps are displayed for the selected authorization group. Each app has a description, a color and a symbol, indicating its use.



Window menu_ entry_ to.psr

Field	Example
Designation – related area	Logon / Logoff – relates to attendance
Color	Green: Apps for attendance Red: Apps for manufacturing Blue: Apps for inventory management
Symbol left	Symbol of the App (character with key)
Symbol right	Indicator, whether the app is available for terminal (monitor) or for WEB (mobile)

Buttons below

© 2026 Boyum IT Solutions A/S

Name	Example
Save	The selection of apps is saved for this authorizations group.
Cancel	Screen is closed without saving.
Delete	App is deleted from group.
Apps Choose	Window is opened with all available apps. Select, (multiple selection with CTRL possible, then click on "apply") .
New Column	On the cursor's position an empty field is entered. From there, apps in terminal are displayed in a new column. With drag&drop, the order of display can also be changed.

back to Authorizations groups

3.4.3.1.2 Apps basic settings

There are basic settings for certain applications, for example the terminal.

PATH: Human Resources > Master data > Terminal Functions > select an entry > "**Basic Setting**" button.

The button opens the Terminal and WEB APP section of the Configuration wizard:
In this section you can configure settings for the Desktop Terminal and WebApps 2.1.

PATH: Administration > System Initialization > Configuration wizard.

Authorization Groups: The **Details** button opens the Administration terminal window.

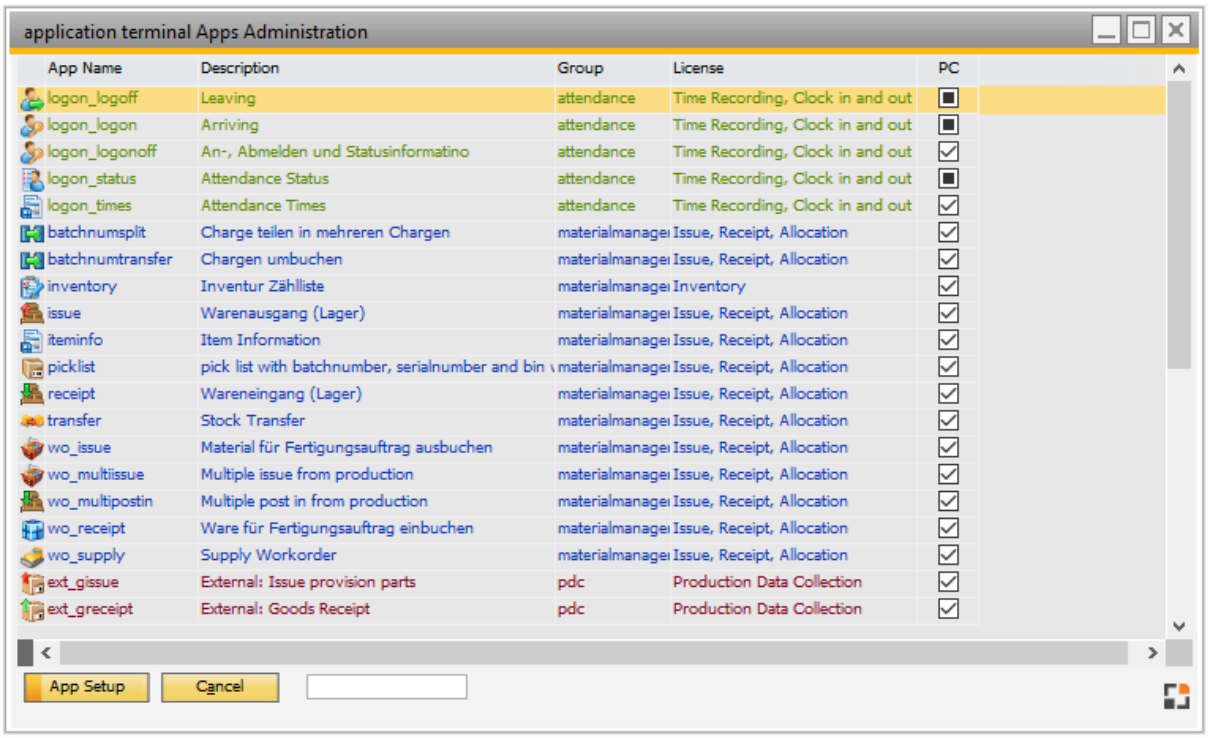
3.4.3.2 Apps administration

PATH: Administration > Utilities > Program groups Administration > select "terminal" > click **Setup** button.

Window is also available from the right-click menu.

This window provides an overview on all available apps:

© 2026 Boyum IT Solutions A/S



Window webwindow_user_browse.psr

Column	Meaning
App Name	ID of the app.
Description	Description.
Group	Functional group of the apps (Inventory/Production/Attendance).
App version	Currently installed version .
Available	Available Version.
WEB	check mark, if app available for WEB.
PC	check mark if app available for Terminal.
License	Displays the relevant License for the app in the line. E.g. "logon_status" app has a "Time Recording, Clock in and out" License.
None update	Select if no automatic update is desired.

Functions

Function	Description
Cancel	Close window.

© 2026 Boyum IT Solutions A/S

Function	Description
App Setup	Opens the extended App settings window
Reload Apps	Reload all apps in the list.
Import Cloud	Import file from the Cloud. The button opens a dialog box to provide the file name.
Copy	Copy text to clipboard.

Select App and double-click – the same function as button "App Setup".

back to Program group Administration

3.4.3.2.1 App Setup - extended

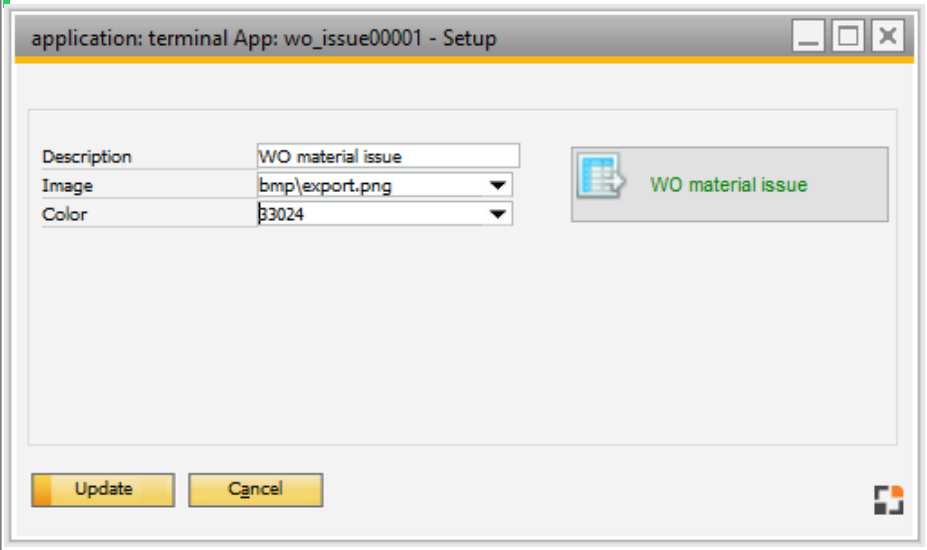
In this window you can perform additional settings for the individual apps of a program group.

PATH: Administration > Utilities > Program groups Administration > select a program group > click **App Setup** button.

Desktop Terminal apps setup

Set the following parameters for how the apps should be displayed in the list:

PATH: Administration > Utilities > Program groups Administration > select "terminal" > click Setup button.



Window webwindow_user_setup.psr

Description: Enter a description to appear in the list for this app.
Image: Select an icon to appear in the list for this app.

© 2026 Boyum IT Solutions A/S

Color: Configure a color that displays the text for this app in the list.
When the definition is empty, the preview on the right reads "none".

- Web Terminal 2.1 apps setup

PATH: Administration > Utilities > Program groups Administration > select "terminal20" > click **Setup** button.

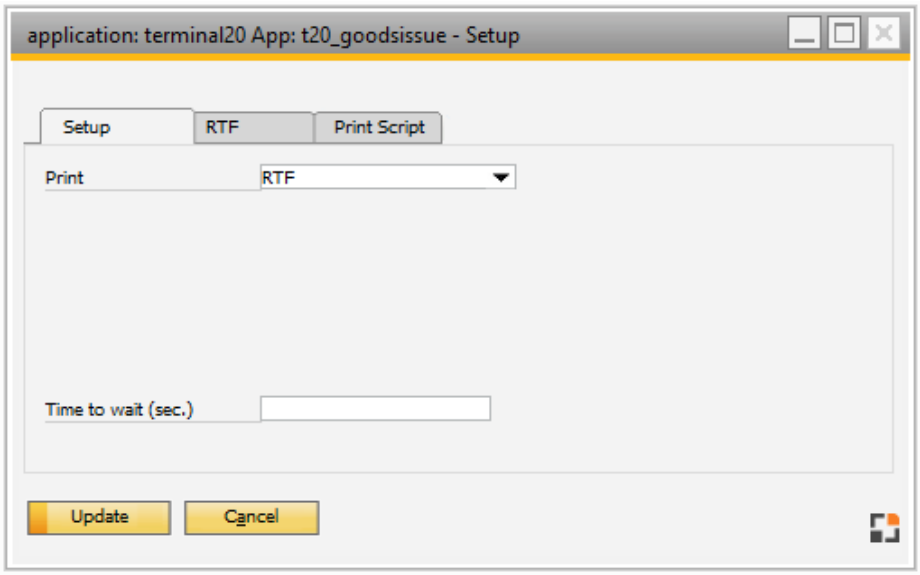
- In certain WebApps setup, you can select from more printing formats:

Print extended settings

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

-Crystal reports: Uses Beas Crystal reports
-RTF: Prints in RTF-Format
-Automatic: Uses the Beas printing format

If you select Crystal / RTF, more tabs appear:



Window webwindow_user_setup.psr

RTF: Enter formatted text

Print Script: A script scan be stored, which is called before printing. Set parameters:
`shtml=print=set=[variable name]=[variable value]`

See detailed description of these options and other setting in the WebApps 2.1 help chapter Print Solution.

© 2026 Boyum IT Solutions A/S

For additional settings available in this window for each WebApp, ***see*** individual WebApp 2.1 app descriptions.

- Web Product Configurator apps - print settings:

PATH: Administration > Utilities > Program groups Administration > select "WebConfigurator" > click **Setup** button.

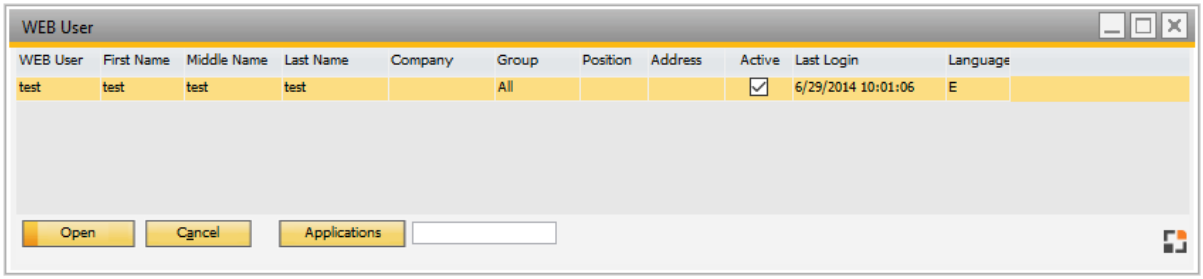
Select print settings for the Web Product Configurator.

back to Apps administration

3.4.3.3 WEB User

This window contains a list of all registered WEB users.

PATH: Administration > Utilities > Program groups Administration > Click **User** button



Window webuser_browse.psr

Columns

Field	Meaning
WEB User	User ID
First name	First name
Second first name	Second first name
Last Name	Last Name
Company	Define the name of the WEB user's company
Group	Assign user to a group (All) for the WEB User
Position	Position of the WEB User at the company
Address	Define address of the WEB User
Active	Check mark if user is active
Last login	Date of last login
Language	Language in which APP-menu is displayed for this employee

© 2026 Boyum IT Solutions A/S

Functions

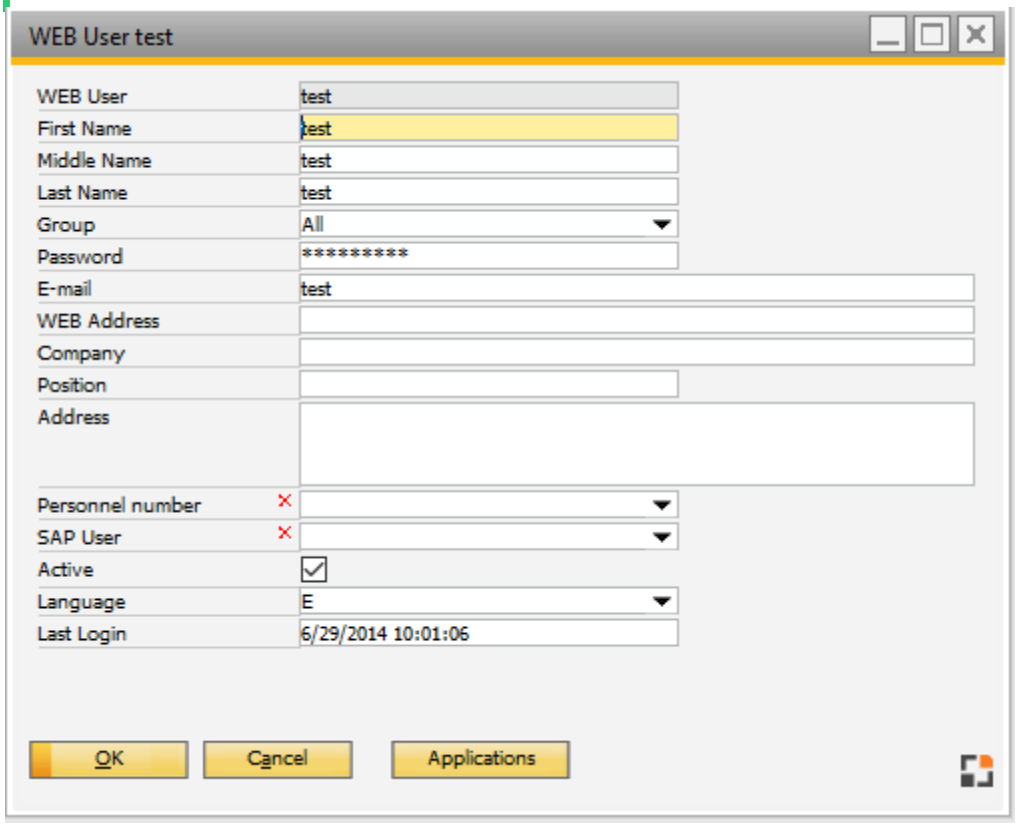
Function	Meaning
Open	Edit settings for selected Web user.
Add	Create new user.
Remove	Delete user.
Applications	Open list of assigned apps.

back to Program group Administration

3.4.3.3.1 Edit Web users

Editing screen for selected WEB users. Fields with red background are mandatory.

PATH: Administration > Utilities > Program groups Administration > Click **User** button > Click **Open/Add**



Window webuser_edit.psr

Field	Meaning

© 2026 Boyum IT Solutions A/S

Password	Password of WEB-user.
E-mail	Define the E-mail address of the WEB user.
WEB Address	Define the WEB address of the WEB user.
Personnel number	Select employee number from the drop-down menu.
SAP User	Select SAP Business One-user from drop-down menu.

For other field descriptions ***see*** WEB users

back to WEB users

3.4.4 Data Protection Tools

Personal Data Management (Beas)

3.4.4.1 Personal Data Management (beas)

In Beas personal data is stored which cannot be output via SAP Business One. For this reason, the SAP Business One - data must be synchronized with Beas and an additional report is available.

In this window you can

Synchronize personal data protection with SAP Business One
Output reports for personal data stored in Beas
See GDPR Notes

Requirements:
Required authorization: System rights
Employee entries in SAP Business One must be synchronized with employee entries in Beas. If necessary, check the database and whether synchronization has taken place.

Synchronization
In SAP Business One business partners and employees can be defined as "natural persons".
This is done under **Data Protection Tools > Personal Data Management > Assistant**

These entries are marked as "natural person" in the master data (personnel, business partner).

Natural persons can be "cleaned up" in the same assistant.

© 2026 Boyum IT Solutions A/S

The master data entry is marked with the status "deleted" and the personal data (name, address, etc.) is replaced with an asterisk "*".

Also, in all other tables, all personal data for the selected natural person are replaced with an asterisk.
This is done in all tables and fields defined under "Management of personal data".

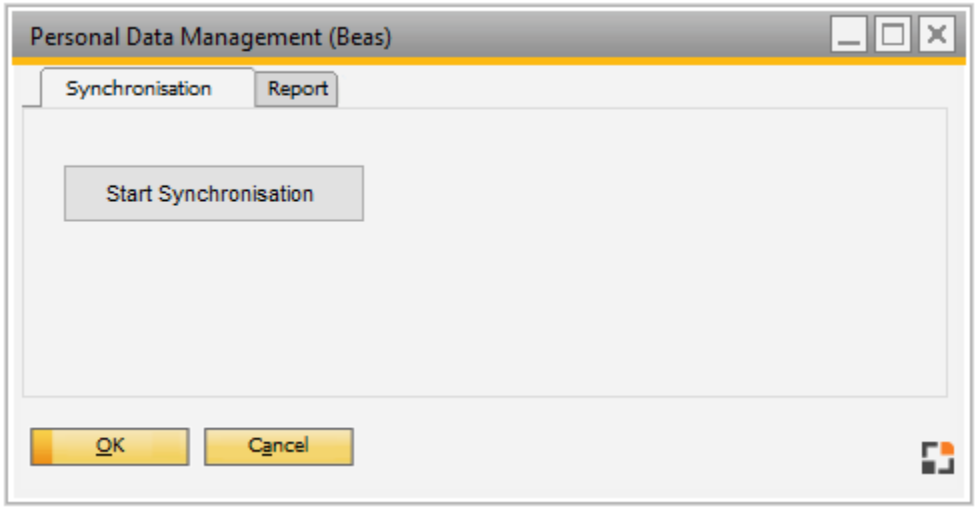
However, no Beas - tables and table columns can be selected here.

Therefore, synchronization is provided for this purpose. This replaces all personal data (name, address) with an asterisk of all personnel and business partners who have the status "deleted".

Process:

1. Cleanup of personal data using SAP Business One assistant
2. Beas – Management of personal data - "**Start Synchronization**" button.

PATH: Administration > Utilities > Personal Data Management (Beas)



Window personal_data_management.psr

Report

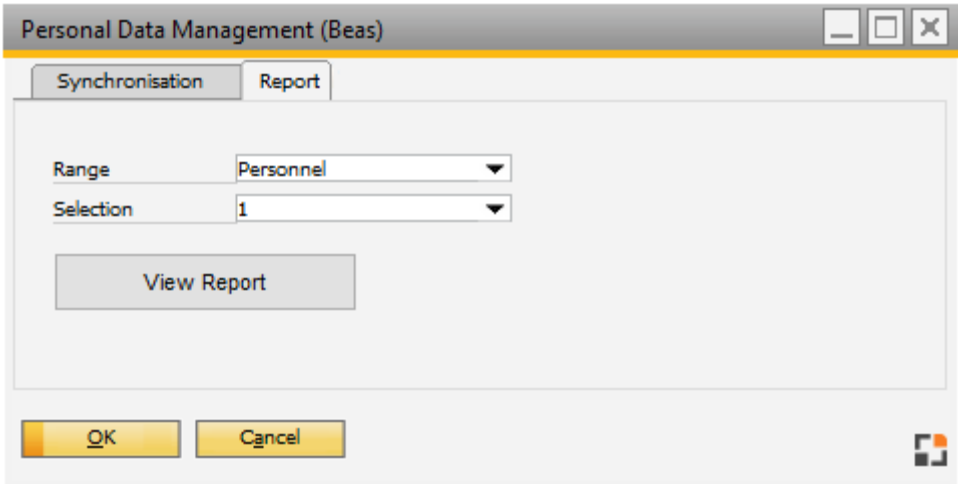
Beas can generate a report about the stored personal data.
This is an additional report for the report that can be created in SAP Business One

Proceed as follows:

Create and print personal report in SAP Business One
in Beas print the personal report

© 2026 Boyum IT Solutions A/S

In Beas, the name is only stored in a few areas and the address is also stored in the production order. All addresses and names stored in different ways are output.

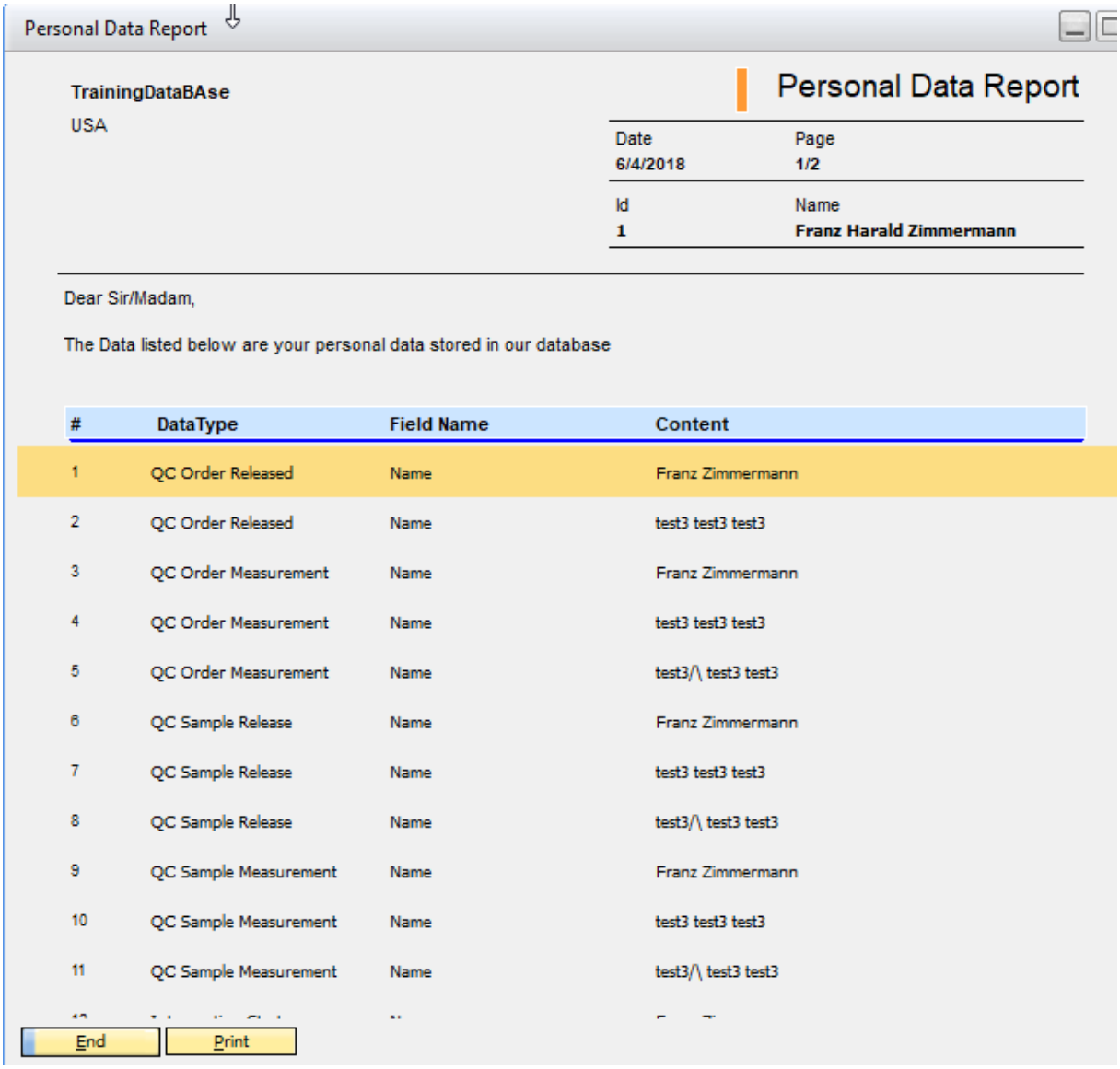


Window personal_data_management.psr

Function	Description
Area	For which area is the report to be created: Personnel or business partners.
Selection	A personnel entry or business partner can be selected for the above area.

Via the "**View report**" button, the report can be displayed and printed out directly.
Via right-click > "Printer" tab > "Preview" the report can be exported in the preview and another printer can be selected or sent directly by email.

© 2026 Boyum IT Solutions A/S



Window personal_data_management_report.psr

3.5 License

To use a Boyum product, you need a license.
All licenses are managed in the Boyum portal.

Partner Portal

In the Beas License Administration window you can manage the license inside Beas.

See:

© 2026 Boyum IT Solutions A/S

License Types
License Installation
License Administration Beas
License administration questions and answers.

How the license is working:

Online-Check
The license is checked daily. Open the firewall for boyum-it.com to allow this check. The license is extended automatically if the fee has been paid at http://portal.boyum-it.com. No further steps are necessary.
If Beas cannot establish the connection to the license server, the license has to be updated at least once per month using "License activation without internet access". ***See*** offline License

License management per database
Licenses are managed per database and per SAP Business installation number. The configuration per database has to be set up separately. The simultaneous use of a license is limited to a specific number of databases.

Basic License: Simultaneous use, specific User
The basic license is assigned to one user. A user can start Beas on a client (Windows System) several times at once in parallel, but not on different stations.

Support User
The SAP support user has full access but this is only possible if Beas is started within the SAP surface as an Add-On.

Terminal License concept
Terminal License is used by Beas Desktop Terminal and WEB APPS.
A terminal license is by concurrence of users. For more information ***see*** Terminal Licence concept.

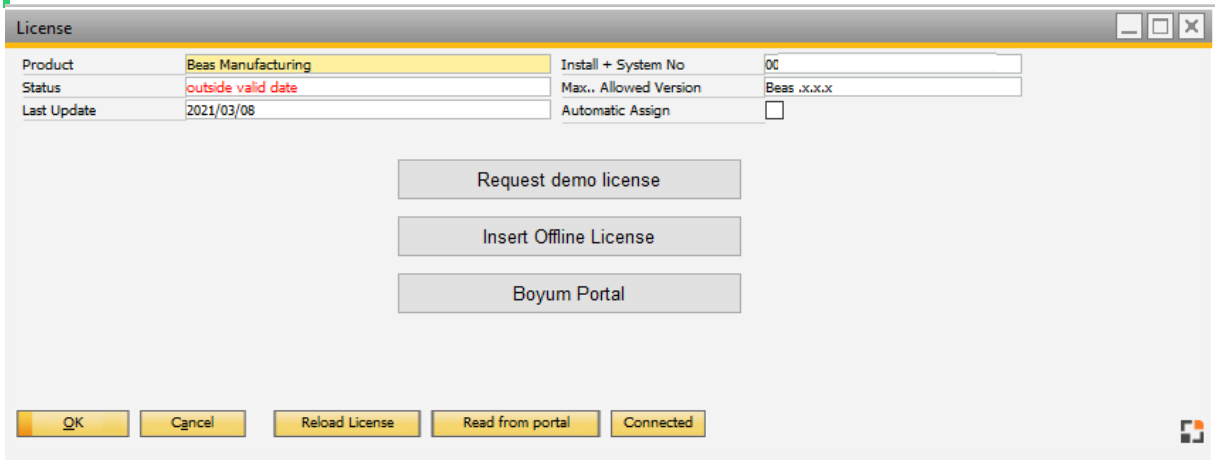
Beas Services
(BSL, Common Service, Background calculations):
If Beas started as service, the system does not need any license.

© 2026 Boyum IT Solutions A/S

3.5.1 License Installation

To register Beas license, the system needs an SAP Installation Number + System Number.
You can see this in:

PATH: Administration > License > License Administration



Now you can request a
Demo license or
Runtime license
Information for updating from old Beas Versions (9.2 and older)
If you do not know, which license you need: ***See*** License types.

Functions:

Function	Description
Request demo license	Open Boyum portal – Demo license page.
Insert Offline License	Use this function, if no internet connection is available. ***See*** Offline license.
Boyum Portal	Open the Boyum Portal. Here You can register a new license request. ***See*** Runtime License.
Read from Portal	You can click this button if license is available.

3.5.2 Demo License

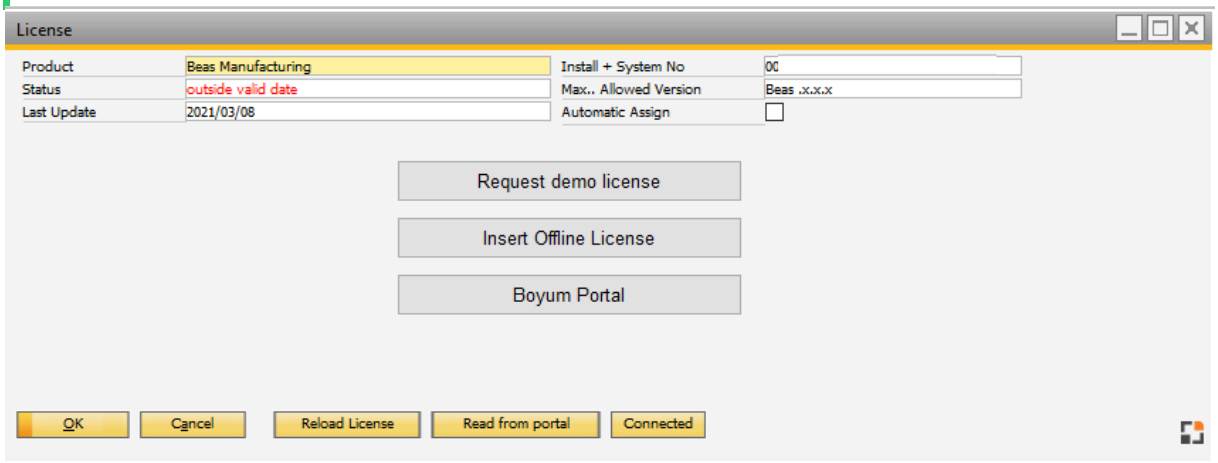
With the DEMO License all functions are available immediately.

Note: The internal Beas Usability License is activated, as well.

© 2026 Boyum IT Solutions A/S

To register a Demo license, open the license window.

PATH: Administration > License > License Administration



visit our Portal Try Beas Basic.
After registration, click on "Read from portal"

Demo License

If no internet connection is available,

Portal: https://portal.boyum-it.com/TryBeas/TryCustomer
Insert license: ***See*** Offline License.

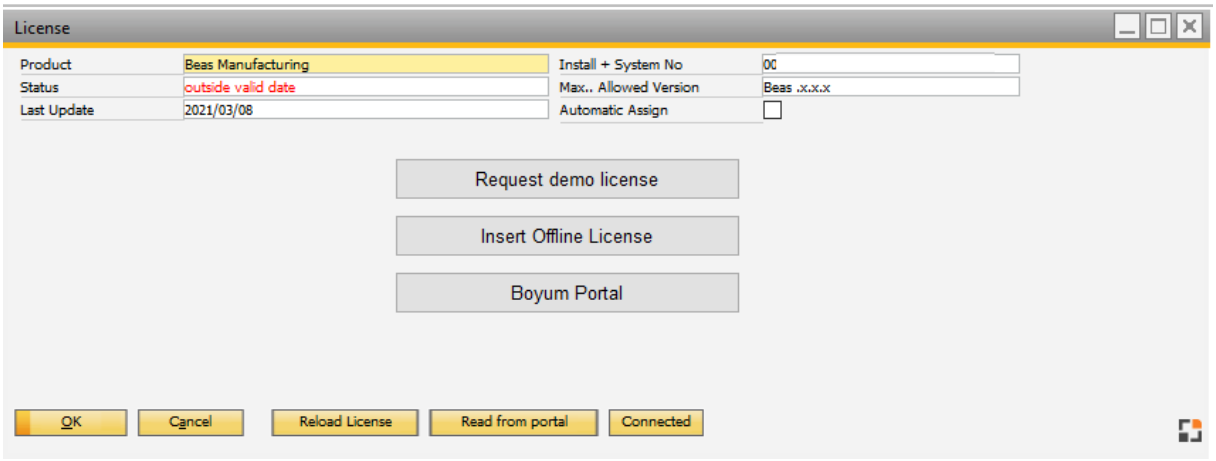
The demo license is valid for 2 weeks. For longer demo use, please contact sales@boyum-it.com.

3.5.3 Runtime License

To register a Runtime license, open the license window.

PATH: Administration > License > License Administration

© 2026 Boyum IT Solutions A/S



For more information on Beas license types ***see*** License types.
Click on "Boyum Portal" and register your license. ***See*** Partner Portal.
Install + System No. see in this window field "Install + System No"
After registration, click on "Read from portal". Note: Beas needs internet access to boyum-it.com websites. If it is not working, check your firewall settings.
If no internet connection is available, you can use the Offline License.

After activation you must assign the license or you can use auto-assignment (only Beas Basic license).
For more information ***see*** License Administration (Beas).

3.5.4 Offline License

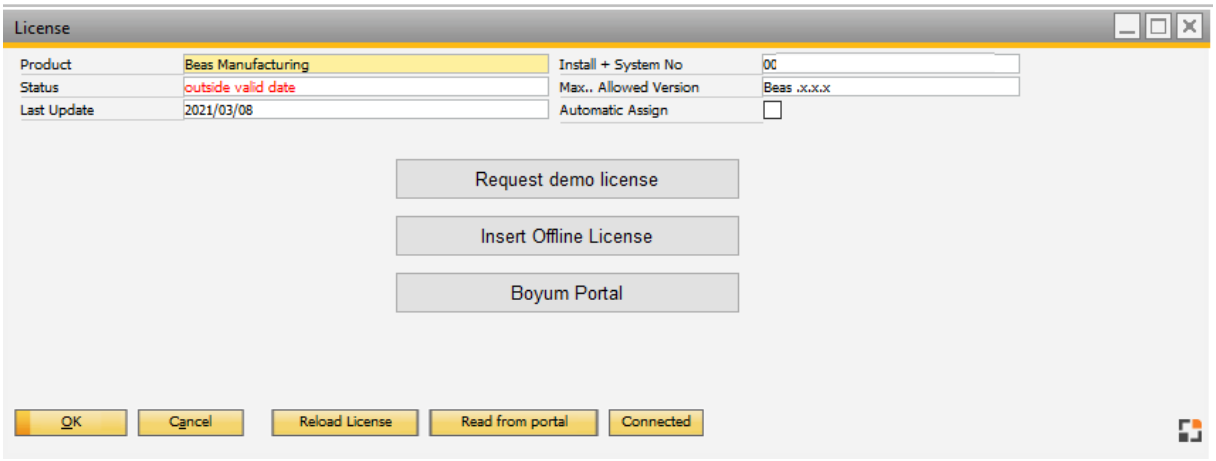
If Beas does not have internet connection, you can insert the license key by copy and paste.

Indicate installation number and select "Beas basic" at https://portal.boyum-it.com/LicenseKey.
An offline-license will be created. Copy to clipboard.

To register an offline license: open the license window.

PATH: Administration > License > License Administration

© 2026 Boyum IT Solutions A/S



Click on "Insert Offline License" and insert the clipboard with Ctrl + V.

3.5.5 Update from old Beas Versions

The correct installation number has to be entered in the portal if the customer has an older version than Beas 9.2 PL: 02.
See the following video:

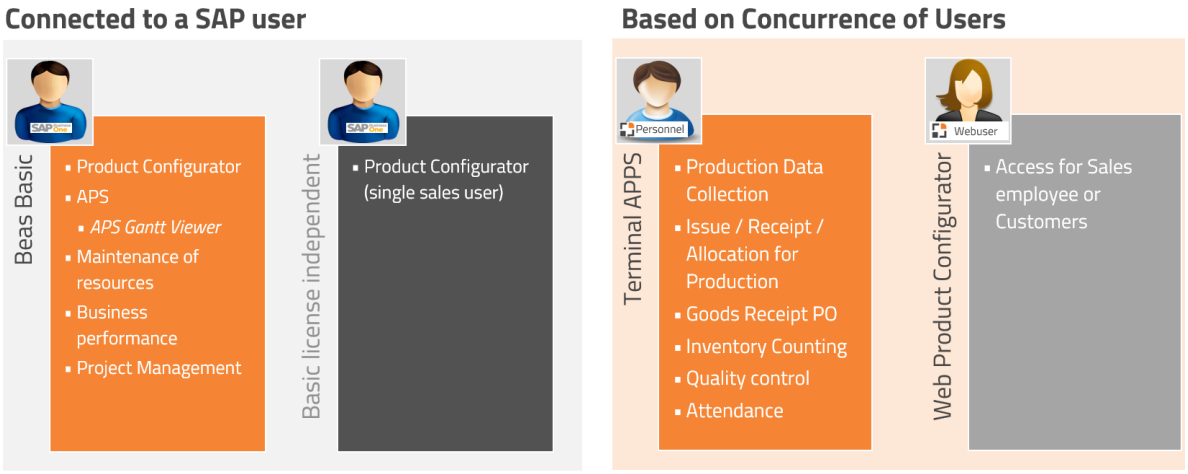
Partner to modify installation number

3.5.6 License Types

The following license types are available:

© 2026 Boyum IT Solutions A/S

Type of License



PRODUCT	ID	DESCRIPTION
Beas Basic	BEAS_BASIC	Beas Manufacturing core product. Each user that should have access to the Beas Manufacturing functions from inside SAP Business One or as a stand-alone application (except Terminals) require a Beas Basic license.
Beas Product Configurator	BEAS_PCONFIG	Incorporates a Configuring-to-Order process to Beas, with administrative features for defining Product Configurator parameters and rules, dynamic pricing calculation, linking parameters to BoM and Routing, using Product Configurator on SAP Sales Quotations and Sales Orders, and applying configured rules to Work Orders.
Beas Product Configurator (single sales user)	BEAS_BCONFIGSALES	License designed specifically for sales users to use Product Configurator interface on SAP Sales Quotations and Sales Orders, without the need for a “Beas Basic” license. Users that already have “Beas Basic” license do not need “Beas Product Configurator (single sales user)” license.
Beas Product Configurator (web interface)	BEAS_BCONFIGWEB	Incorporates a web portal for Product Configurator, enabling sales representatives and customers to

© 2026 Boyum IT Solutions A/S

PRODUCT	ID	DESCRIPTION
		configure their own products and generate SAP Sales Orders instantly.
Beas APS (Advanced Planning and Scheduling)	BEAS_APS	Enhances the Beas Basic capacity planning by incorporating features for finite capacity planning, with powerful functions for forward and backwards production scheduling, linking production scheduling to materials availability, sorting production by priorities and grouping by common characteristics, custom prioritizing according to freely definable rules, and optimizing of resources' usage (automatically selecting resources with free capacity when working with alternatives or groups of resources).
Beas APS Gantt Viewer	BEAS_NETRONIC	Graphical visualization of the APS scheduling on a Gantt chart, with features for displaying schedule per work orders or per re- sources, viewing of resources' workload, and for manually adjusting the work orders' scheduling on a timeline.
Beas Maintenance of Resources (Machines, Tools) and shipped Components / Equipment	BEAS_MTC	Fully integrated maintenance solution that includes features for internal and external maintenance scenarios, maintenance plans for preventive (calendar based) and predictive (productivity based) maintenance, corrective maintenance, maintenance for produced and sold items with serial numbers, registration of maintenance transactions from terminal application, calculation of maintenance costs based on maintenance orders, maintenance material planning integrated to MRP, and automatic creation of interruptions for maintenance, enabling APS to consider maintenance when scheduling production.
Beas Cost Accounting extended / Business Performance	BEAS_BAB	Advanced cost accounting integrated to production data, allowing the creation of dynamic distribution rules according to production activity, different rules for processing and analyzing financial transactions from SAP Business One, budgeting, profits and

© 2026 Boyum IT Solutions A/S

PRODUCT	ID	DESCRIPTION
		losses statement, and specific reports for analyzing transactions related to cost centers and cost elements. This module also in- corporates an Absorption Costing function, which enables the distribution of the actual accounted cost to the produced items, recalculating their costs according to real transactions instead of using fixed cost rates on resources and personnel.
Beas Project Management	BEAS_PROJECT	Powerful module for project-based manufacturing, including the creation of multilevel projects with time tracking possibility, definition of expenses budgets for projects, creation of activities, sales and purchase transactions directly from the project, triggering work orders and Product Configurator from the project, defining milestones, and calculating actual projects' costs
Beas App: Issue / Receipt / Allocation for Production, Pick and Pack, Labels, Stock Information	BEAS_TERMINAL_MATERIAL	Terminal license for stock related transactions. This license includes the following applications: stock transfer, stock transfer request, goods receipt, goods issue, receipt from production, issue for production, reservation and allocation for production, collective issue for production, collective receipt for production, pick and pack and label printing.
Beas App: Goods Receipt for Purchase Orders, Labels, Stock Information	BEAS_TERMINAL_PO	Terminal license for purchase related transactions. This license includes the following applications: goods receipt (single and collective), label printing, inventory history, and reservations.
Beas App: Inventory	BEAS_TERMINAL_INV	Terminal license for inventory stocktaking. This license includes the following applications: inventory.
Beas App: Quality Control	BEAS_TERMINAL_QC	Terminal license for quality control related transactions. This license includes the following applications: QC by samples, QC by test and QC transfer and QC Orders.
Beas App: Time Recording, Clock in,	BEAS_TERMINAL_FDC	Terminal license for attendance related transactions. This license includes the following applications:

© 2026 Boyum IT Solutions A/S

PRODUCT	ID	DESCRIPTION
Clock out, Absences (Terminal)		arriving, leaving, login/logoff, status, and times.
Beas App: Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap	BEAS_TERMINAL_PDC	Terminal license for production related transactions. This license includes the following applications: login work order, logoff work order, quick input, production time receipt, external production, order status, pool report, activity, display documents, login interruption, logoff interruption, and maintenance orders. Note: automatic production good receipts and good issues could be performed. For manual material transactions in production, it is needed to consider the Beas App: Issue / Receipt / Allocation for Production, Pick and Pack, Labels, Stock Information.

3.5.6.1 Basic

Description

Beas Manufacturing core product. Each user that should have access to the Beas Manufacturing functions from inside SAP Business One or as a stand-alone application (except Terminals) require a Beas Basic license.

Requirement

SAP Business One Professional or Limited license for using Beas inside SAP Business One; SAP Business One Indirect Access license for using Beas as a standalone application.

ID

BEAS_BASIC

Rules

License per SAP User

Can connect only on one Station per time

Can start with same user more then one time on same station

© 2026 Boyum IT Solutions A/S

3.5.6.2 Product Configurator

Description

Incorporates a Configuring-to-Order process to Beas, with administrative features for defining Product Configurator parameters and rules, dynamic pricing calculation, linking parameters to BoM and Routing, using Product Configurator on SAP Sales Quotations and Sales Orders, and applying configured rules to Work Orders.

Requirement

"Beas Basic" license.

ID

BEAS_PCONFIG

License Rules

Same quantity as "Beas Basic" quantity.

3.5.6.3 Product Configurator (Web Access or SAP Client)

Description

This license is designed for sales users to use the Product Configurator interface for SAP Sales Quotations and Sales Orders, without the need for a "Beas Basic" license or to access to the Web Configurator.
In case of users that access the Web Configurator through SAP sales quotation or order: if a user has a "Beas Basic" license they do not need this license because they already have access to this function.

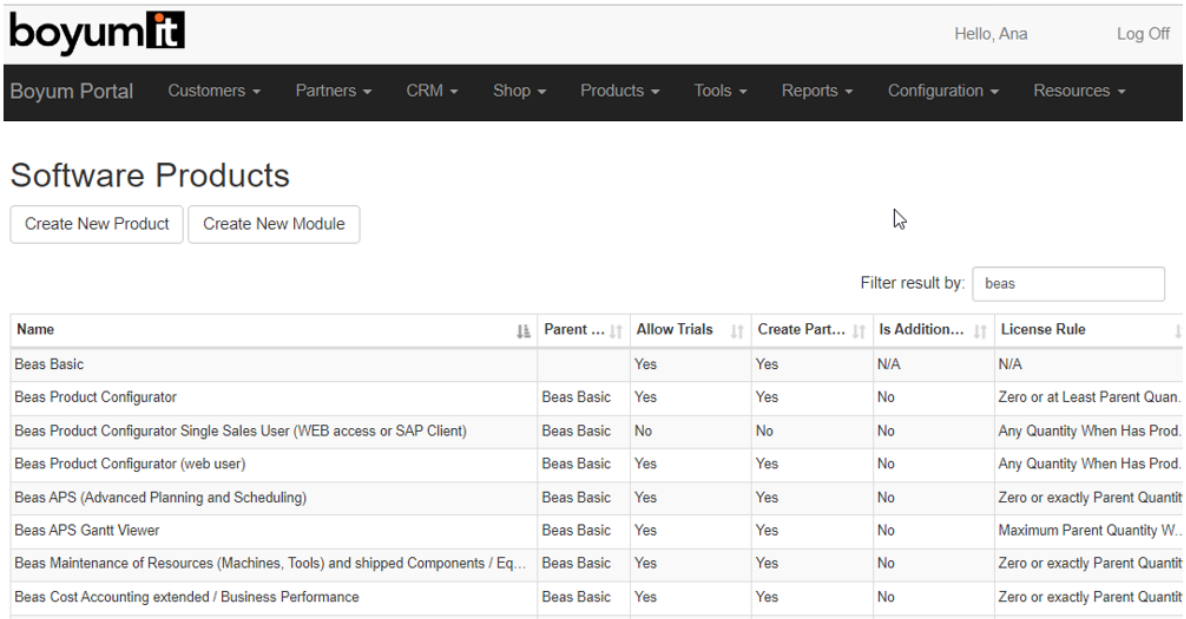
Requirement

"Beas Product Configurator" license.

ID

BEAS_BCONFIGSALES

© 2026 Boyum IT Solutions A/S

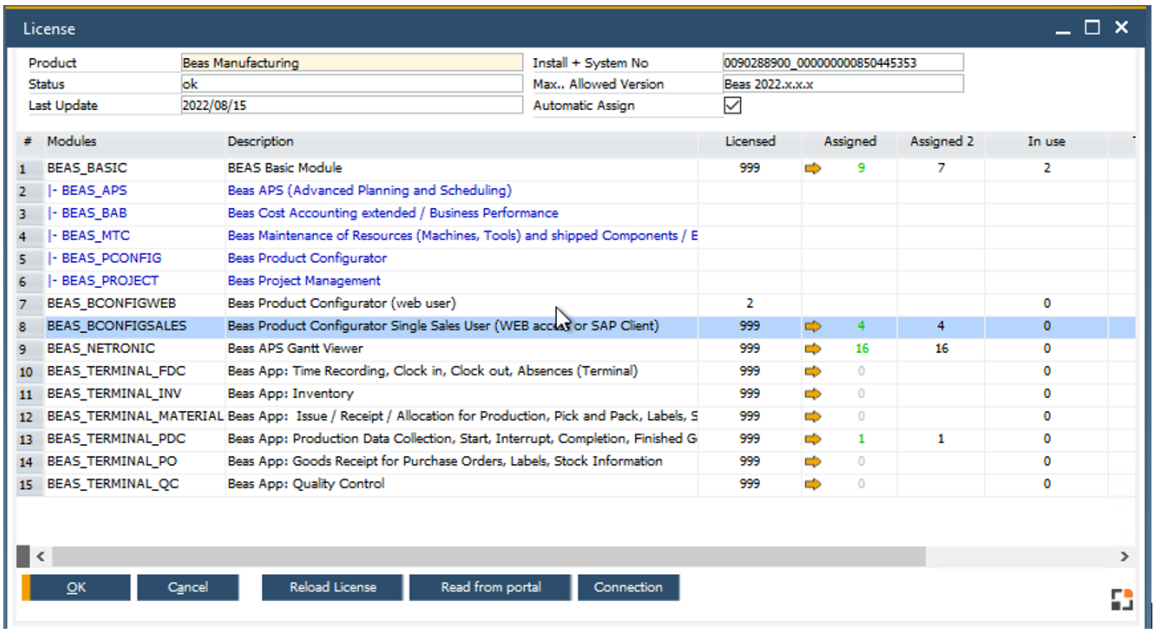


Name	Parent ...	Allow Trials	Create Part...	Is Addition...	License Rule
Beas Basic		Yes	Yes	N/A	N/A
Beas Product Configurator	Beas Basic	Yes	Yes	No	Zero or at Least Parent Quan.
Beas Product Configurator Single Sales User (WEB access or SAP Client)	Beas Basic	No	No	No	Any Quantity When Has Prod.
Beas Product Configurator (web user)	Beas Basic	Yes	Yes	No	Any Quantity When Has Prod.
Beas APS (Advanced Planning and Scheduling)	Beas Basic	Yes	Yes	No	Zero or exactly Parent Quantit
Beas APS Gantt Viewer	Beas Basic	Yes	Yes	No	Maximum Parent Quantity W..
Beas Maintenance of Resources (Machines, Tools) and shipped Components / Eq...	Beas Basic	Yes	Yes	No	Zero or exactly Parent Quantit
Beas Cost Accounting extended / Business Performance	Beas Basic	Yes	Yes	No	Zero or exactly Parent Quantit

License Rules

User assignment

An SAP user without a Beas basic license could be assigned to this license to give access to the product configurator from the SAP Quotation or Sales orders. The assigned licenses will have exclusive use of the assigned user from the SAP Sales documents, the rest of the licenses not assigned will have use by concurrency in the Web Configurator.



#	Modules	Description	Licensed	Assigned	Assigned 2	In use
1	BEAS_BASIC	BEAS Basic Module	999	9	7	2
2	|- BEAS_APS	Beas APS (Advanced Planning and Scheduling)				
3	|- BEAS_BAB	Beas Cost Accounting extended / Business Performance				
4	|- BEAS_MTC	Beas Maintenance of Resources (Machines, Tools) and shipped Components / E				
5	|- BEAS_PCONFIG	Beas Product Configurator				
6	|- BEAS_PROJECT	Beas Project Management				
7	BEAS_BCONFIGWEB	Beas Product Configurator (web user)	2			0
8	BEAS_BCONFIGSALES	Beas Product Configurator Single Sales User (WEB access or SAP Client)	999	4	4	0
9	BEAS_NETRONIC	Beas APS Gantt Viewer	999	16	16	0
10	BEAS_TERMINAL_FDC	Beas App: Time Recording, Clock in, Clock out, Absences (Terminal)	999	0		0
11	BEAS_TERMINAL_INV	Beas App: Inventory	999	0		0
12	BEAS_TERMINAL_MATERIAL	Beas App: Issue / Receipt / Allocation for Production, Pick and Pack, Labels, S	999	0		0
13	BEAS_TERMINAL_PDC	Beas App: Production Data Collection, Start, Interrupt, Completion, Finished G	999	1	1	0
14	BEAS_TERMINAL_PO	Beas App: Goods Receipt for Purchase Orders, Labels, Stock Information	999	0		0
15	BEAS_TERMINAL_QC	Beas App: Quality Control	999	0		0

© 2026 Boyum IT Solutions A/S

Example:

A customer acquires 10 "Beas Product Configurator Single Sales User (Web access or Sap Client)" licenses: 3 of them are assigned to SAP Users, 7 will be available for the use of the Web Configurator access.

If 3 sales employees connect to the web access, 4 of the 7 licenses will be available. When all the web licenses are occupied at the same time, the eighth user will not be able to access it.

Note: The assigned licenses are excluded from the availability for web access, so if a salesperson has an SAP User license assigned for Sales orders, and accesses through the Web Configurator, the web access will be consumed as an additional license each time they access it.

Managing the concurrence of Users

The assignment and release of the Web Configurator licenses will be carried out identically to license application in the WebApps terminal.

User login blocks a Web Configurator license, and these licenses are released for use again once the user logs out.

There is no limit in the number of users to access the Web Configurator, but they can access it only up to the available licenses at a time. Following the example of our customer with 7 licenses available for the Web Configurator, they could create 20 users but only up to 7 will be able to access the Web Configurator at a time. However, consider that the web application was designed for sales employee access and is not intended to be a B2C or E-commerce solution with high user concurrency.

ATTENTION: If a user closes the Web Configurator without logging out, the system keeps the license in use for 10 minutes. After that the system automatically releases the license.

Concurrence of users (User, Customer, Employee). Every Session takes one license.

WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

3.5.6.4 Product Configurator (Web User)

Description

Incorporates a web portal for Product Configurator, enabling sales representatives and customers to configure their own products and generate SAP Sales Orders instantly.

Note: Consider that the web application was designed for sales employee access and is not intended to be a B2C or E-commerce solution with high user concurrency.

© 2026 Boyum IT Solutions A/S

IMPORTANT: From Beas Manufacturing 2022.09, the "Web User" license is unified with BEAS_BCONFIGSALES (Product Configurator Single Sales User), and is to disappear from the Beas portal list at the end of 2022.

See article: Changes in the Web Configurator License.

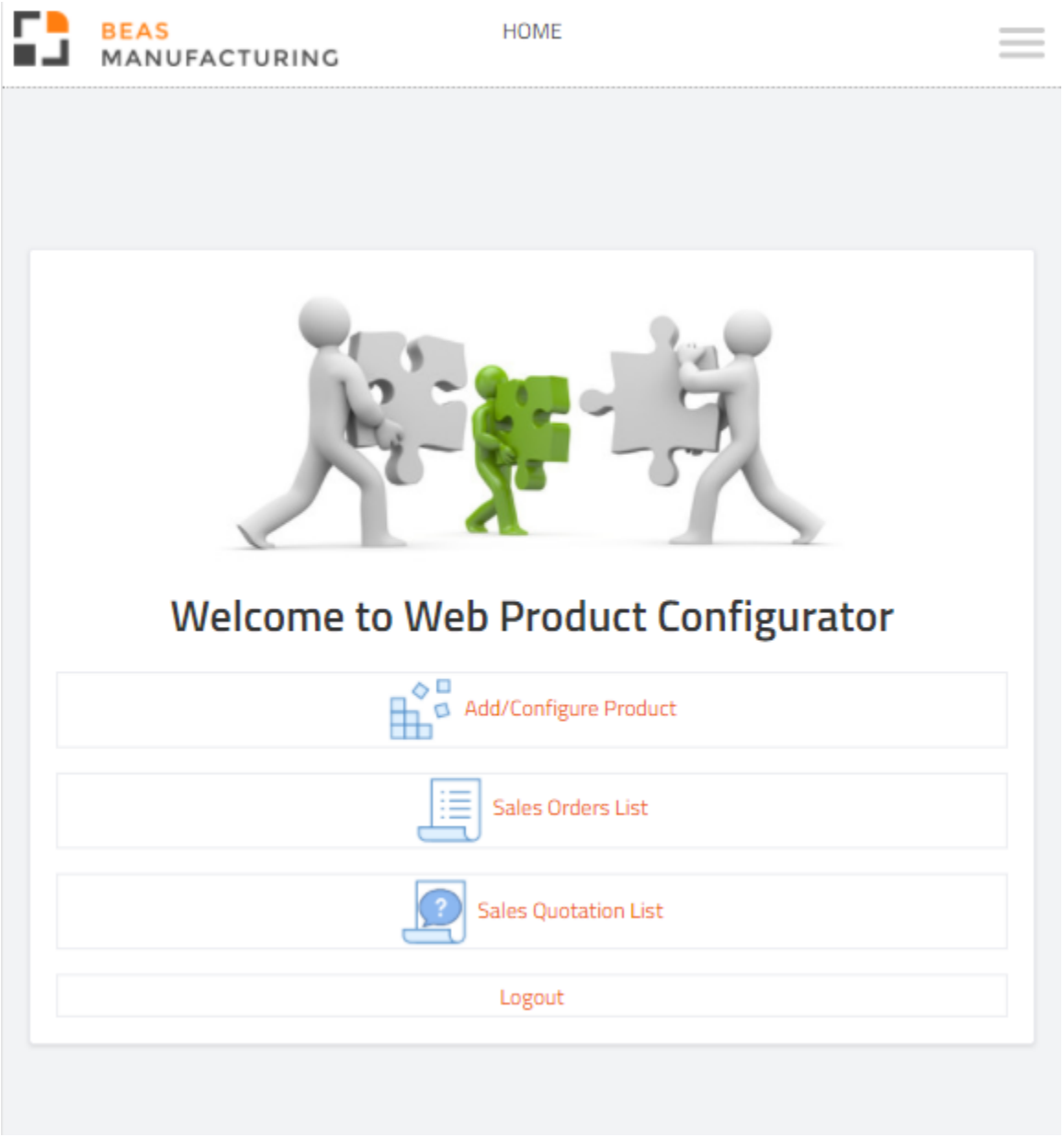
Requirement

"Beas Product Configurator" license.

ID

BEAS_BCONFIGWEB

© 2026 Boyum IT Solutions A/S



3.5.6.5 APS (Advanced Planning and Scheduling)

Description

Enhances the Beas Basic capacity planning by incorporating features for finite capacity planning, with powerful functions for forward and backwards production scheduling, linking production scheduling to materials availability, sorting production by priorities and grouping by common characteristics, custom prioritizing according to freely definable rules, and optimizing of resources' usage (automatically selecting resources with free capacity when working with alternatives or groups of resources).

Requirement

© 2026 Boyum IT Solutions A/S

“Beas Basic” license.

ID

BEAS_APS

License Rules

Same quantity as “Beas Basic” quantity.

3.5.6.6 APS Gantt Viewer

Description

Graphical visualization of the APS scheduling on a Gantt chart, with features for displaying schedule per work orders or per re- sources, viewing of resources' workload, and for manually adjusting the work orders’ scheduling on a time line.

Requirement

“Beas APS (Advanced Planning and Scheduling)” license.

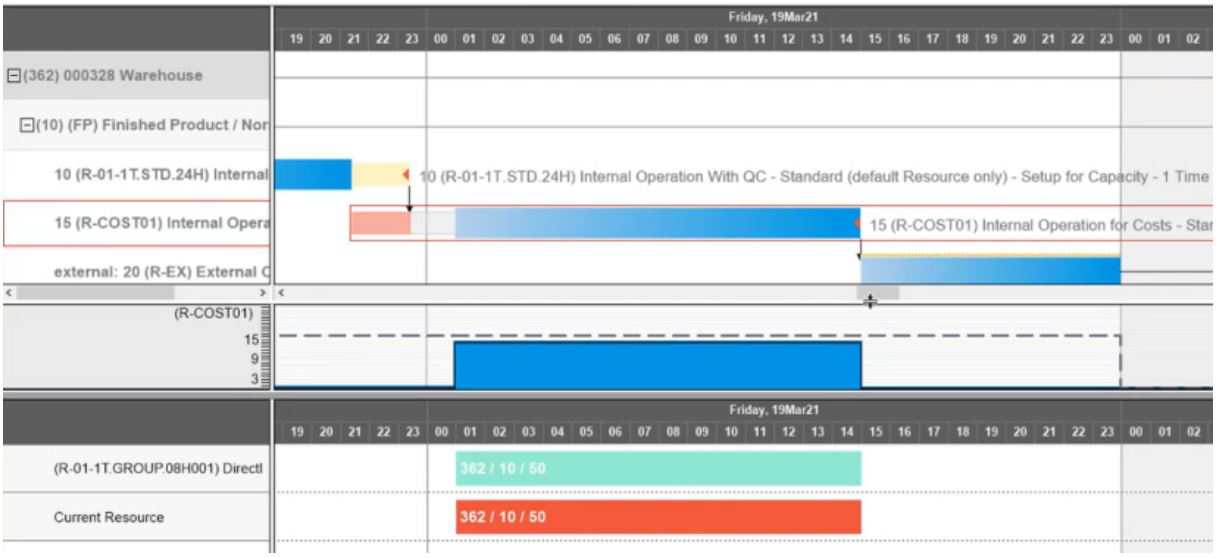
ID

BEAS_NETRONIC

License Rules

License per Station-ID.

The station must be defined in Administrate license assignments



© 2026 Boyum IT Solutions A/S

3.5.6.7 Maintenance of Resources

Description

Fully integrated maintenance solution that includes features for internal and external maintenance scenarios, maintenance plans for preventive (calendar based) and predictive (productivity based) maintenance, corrective maintenance, maintenance for produced and sold items with serial numbers, registration of maintenance transactions from terminal application, calculation of maintenance costs based on maintenance orders, maintenance material planning integrated to MRP, and automatic creation of interruptions for maintenance, enabling APS to consider maintenance when scheduling production.

Requirement

"Beas Basic" license.

ID

BEAS_MTC

License Rules

Same quantity as "Beas Basic" quantity.

3.5.6.8 Cost Accounting

Description

Advanced cost accounting integrated to production data, allowing the creation of dynamic distribution rules according to production activity, different rules for processing and analyzing financial transactions from SAP Business One, budgeting, profits and losses statement, and specific reports for analyzing transactions related to cost centers and cost elements. This module also incorporates an Absorption Costing function, which enables the distribution of the actual accounted cost to the produced items, recalculating their costs according to real transactions instead of using fixed cost rates on resources and personnel.

Requirement

"Beas Basic" license.

ID

BEAS_BAB

License Rules

Same quantity as "Beas Basic" quantity.

© 2026 Boyum IT Solutions A/S

3.5.6.9 Project Management

Description

Powerful module for project-based manufacturing, including the creation of multilevel projects with time tracking possibility, definition of expenses budgets for projects, creation of activities, sales and purchase transactions directly from the project, triggering work orders and Product Configurator from the project, defining milestones, and calculating actual projects' costs

Requirement

"Beas Basic" license. When triggering Product Configurator from inside the project, "Beas Product Configurator" license is also required.

ID

BEAS_PROJECT

License Rules

Same quantity as "Beas Basic" quantity.

3.5.6.10 App: Issue / Receipt / Allocation

Beas App: Issue / Receipt / Allocation for Production, Pick and Pack, Labels, Stock Information

See Desktop Terminal

Description

Terminal license for stock related transactions. This license includes the following applications: stock transfer, stock transfer request, goods receipt, goods issue, receipt from production, issue for production, reservation and allocation for production, collective issue for production, collective receipt for production, pick and pack and label printing.

Requirement

Requires the end customer is running at least 1 Beas Basic license. Please refer to SAP in regard the required indirect access licenses for add-ons users.

ID

BEAS_TERMINAL_MATERIAL

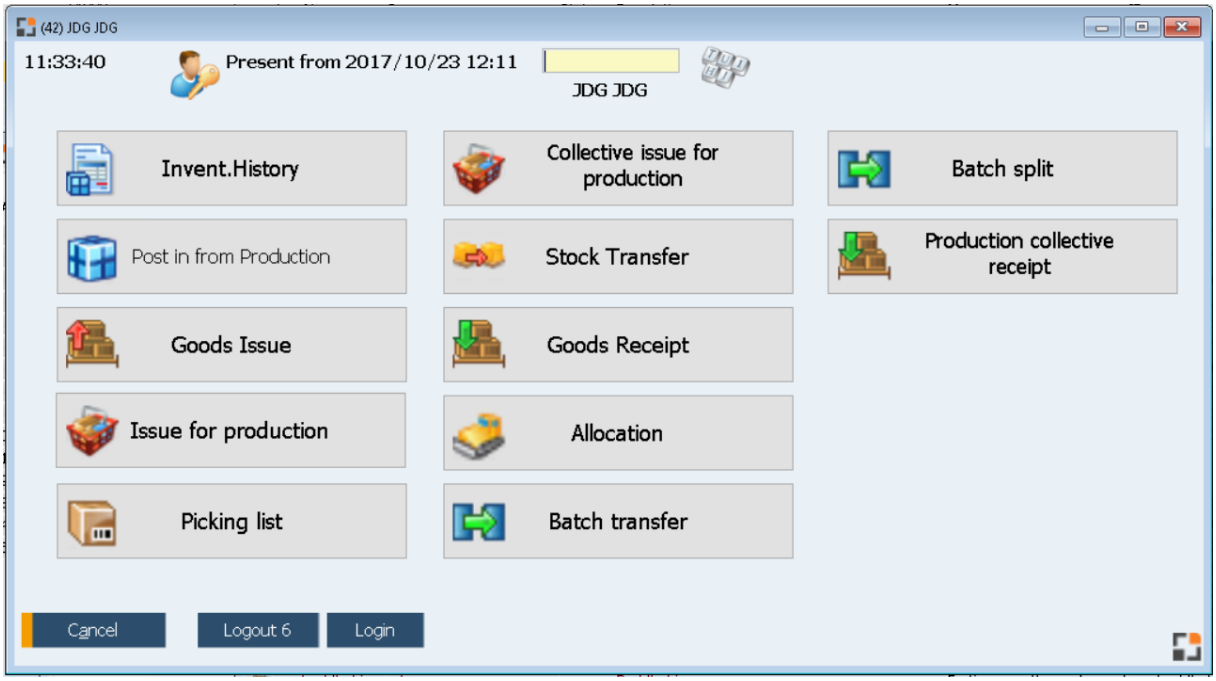
License rules

Concurrence of users (User, Customer, Employee). Every Session takes one license.

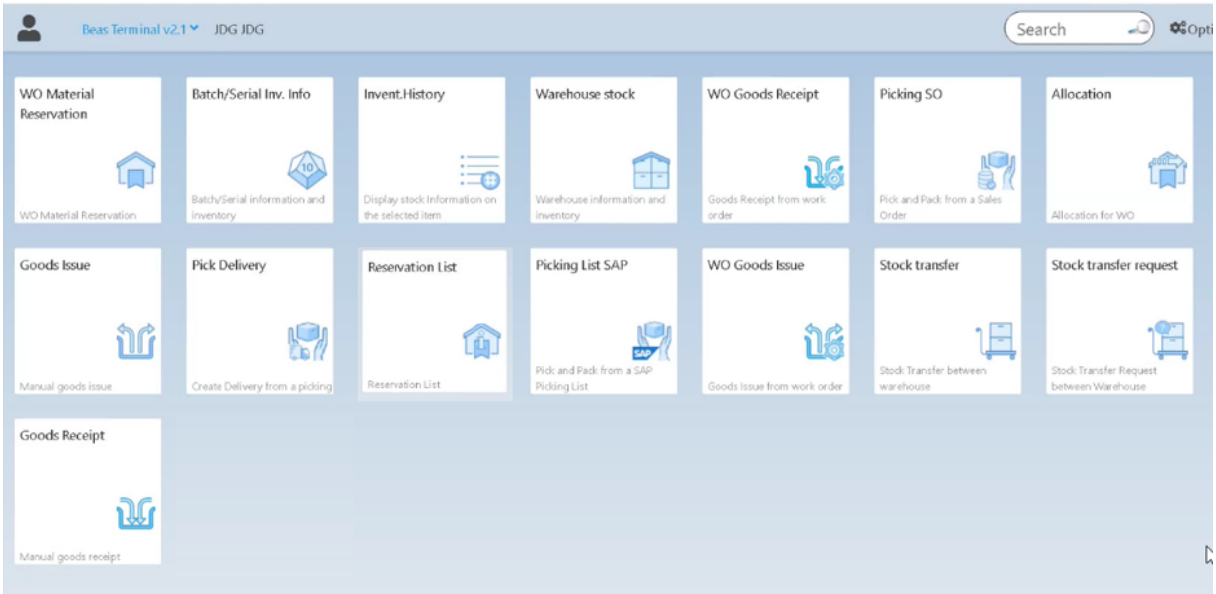
© 2026 Boyum IT Solutions A/S

WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

Desktop Terminal:



WebApps:



© 2026 Boyum IT Solutions A/S

3.5.6.11 App: GRPO, Order, Labels, Stock info

Beas App: Goods Receipt for Purchase Orders, Labels, Stock Information

See Desktop Terminal

Description

Terminal license for purchase related transactions. This license includes the following applications: goods receipt (single and collective), label printing, inventory history, and reservations.

Requirement

Requires the end customer is running at least 1 Beas Basic license. Please refer to SAP in regard the required indirect access licenses for add-ons users.

ID

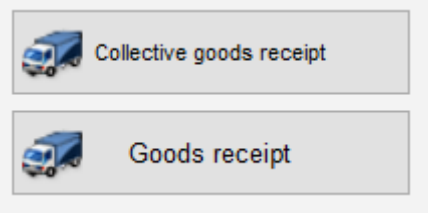
BEAS_TERMINAL_PO

License rules

Concurrence of users (User, Customer, Employee). Every Session takes one license.
WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

Desktop Terminal:

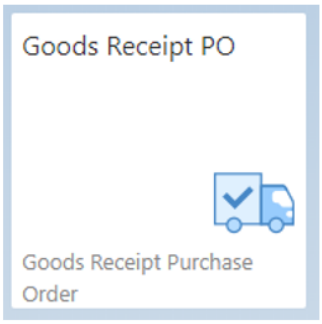
Goods receipt (single, collective function), Label printing, Inventory history, Tracking of inventory transactions, Reservations.



WebApps:

© 2026 Boyum IT Solutions A/S

Beas WebApps – *Goods Receipt for Purchase license*



3.5.6.12 App: Inventory

Beas App: Inventory

See Desktop Terminal

Description

Terminal license for inventory stocktaking. This license includes the following applications: inventory.

Requirement

Requires the end customer is running at least 1 Beas Basic license. Please refer to SAP in regard the required indirect access licenses for add-ons users.

ID

BEAS_TERMINAL_INV

License rules

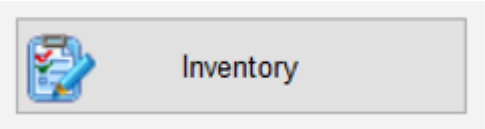
Concurrence of users (User, Customer, Employee). Every Session takes one license.

WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

Desktop Terminal:

© 2026 Boyum IT Solutions A/S

Extended functions compared to SAP-Standard: full support of batches and serial numbers, bins; Stocktaking templates and Valuations; Import of counted stock, adjustable counting lists, automatic correction of stock.



WebApps:

Beas WebApps – *Inventory license*

3.5.6.13 App: Quality Control

Beas App: Quality Control

See Desktop Terminal

Description

Terminal license for quality control related transactions. This license includes the following applications: QC samples, and QC orders.

Requirement

Requires the end customer is running at least 1 Beas Basic license. Please refer to SAP in regard the required indirect access licenses for add-ons users.

ID

BEAS_TERMINAL_QC

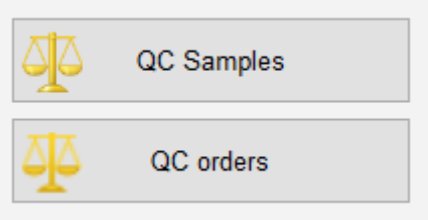
© 2026 Boyum IT Solutions A/S

License Rule

Concurrence of users (User, Customer, Employee). Every Session takes one license.
WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

Desktop Terminal:

Inspection plans to define measurements and behavior, complex rules supported. Measurement per sample or position, valuation, blockage reasons. Release process: four-eyes-principle, electronic signature. QC-documents with reading confirmation. Not included: QC Plans Administration.



WebApps:

3.5.6.14 App: Time recording, clock in-out, absences

Beas App: Time Recording, Clock in, Clock out, Absences (Terminal)

See Desktop Terminal

Description

Terminal license for attendance related transactions. This license includes the following applications: arriving, leaving, login/logoff, status, and times.

© 2026 Boyum IT Solutions A/S

Requirement

Requires the end customer is running at least 1 Beas Basic license. Please refer to SAP in regard the required indirect access licenses for add-ons users.

ID

BEAS_TERMINAL_FDC

License rule

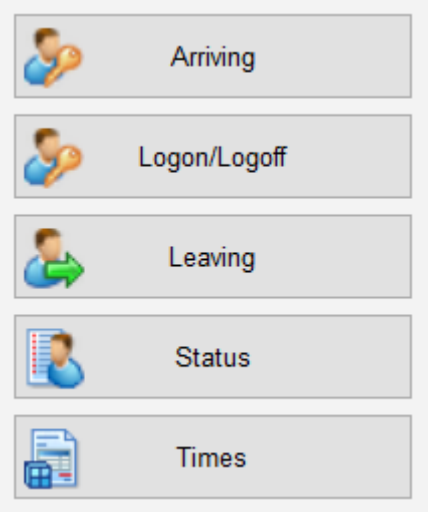
Concurrence of users (User, Customer, Employee). Every Session takes one license.

WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

Time Recording, Clock in, Clock out, Absences

Master data, attendance/work hour schedules and rules, accounts/attendance and absence types freely definable, graphical displays/reports, online message via PC or TC terminals, e.g. mobile devices (WLAN, browser-based), e.g. Motorola/Symbol.

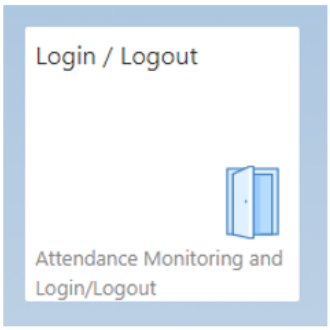
Desktop Terminal:



WebApps:

© 2026 Boyum IT Solutions A/S

Beas WebApps – *Time Recording, Clock In-Out license*



3.5.6.15 App: PDC, Start-Stop interruption

Beas App: Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap

See Desktop Terminal

Description

Terminal license for production related transactions. This license includes the following applications: login work order, logoff work order, quick input, production time receipt, external production, order status, pool report, activity, display documents, login interruption, logoff interruption, and maintenance orders. Note: automatic production good receipts and good issues could be performed. For manual material transactions in production, it is needed to consider the Beas App: Issue / Receipt / Allocation for Production, Pick and Pack, Labels, Stock Information.

Requirement

Requires the end customer is running at least 1 Beas Basic license. Please refer to SAP in regard the required indirect access licenses for add-ons users.

ID

BEAS_TERMINAL_PDC

License rule

Concurrence of users (User, Customer, Employee). Every Session takes one license.

WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

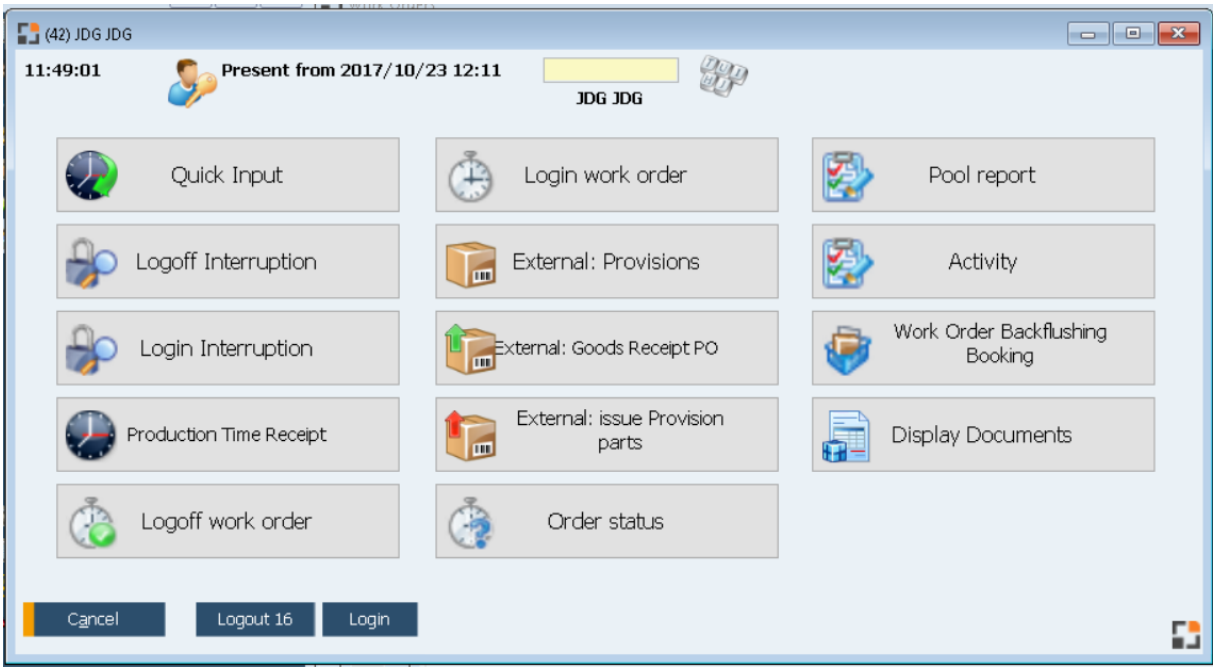
© 2026 Boyum IT Solutions A/S

Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap

Master data such as time types/reasons/rules, collecting times/statuses/quantities via PC or PDC terminal with barcode, or mobile devices (WLAN, browser-based), e.g. Motorola/Symbol, reports and statistics about times/statuses/productivity by employee/machine/group/area.

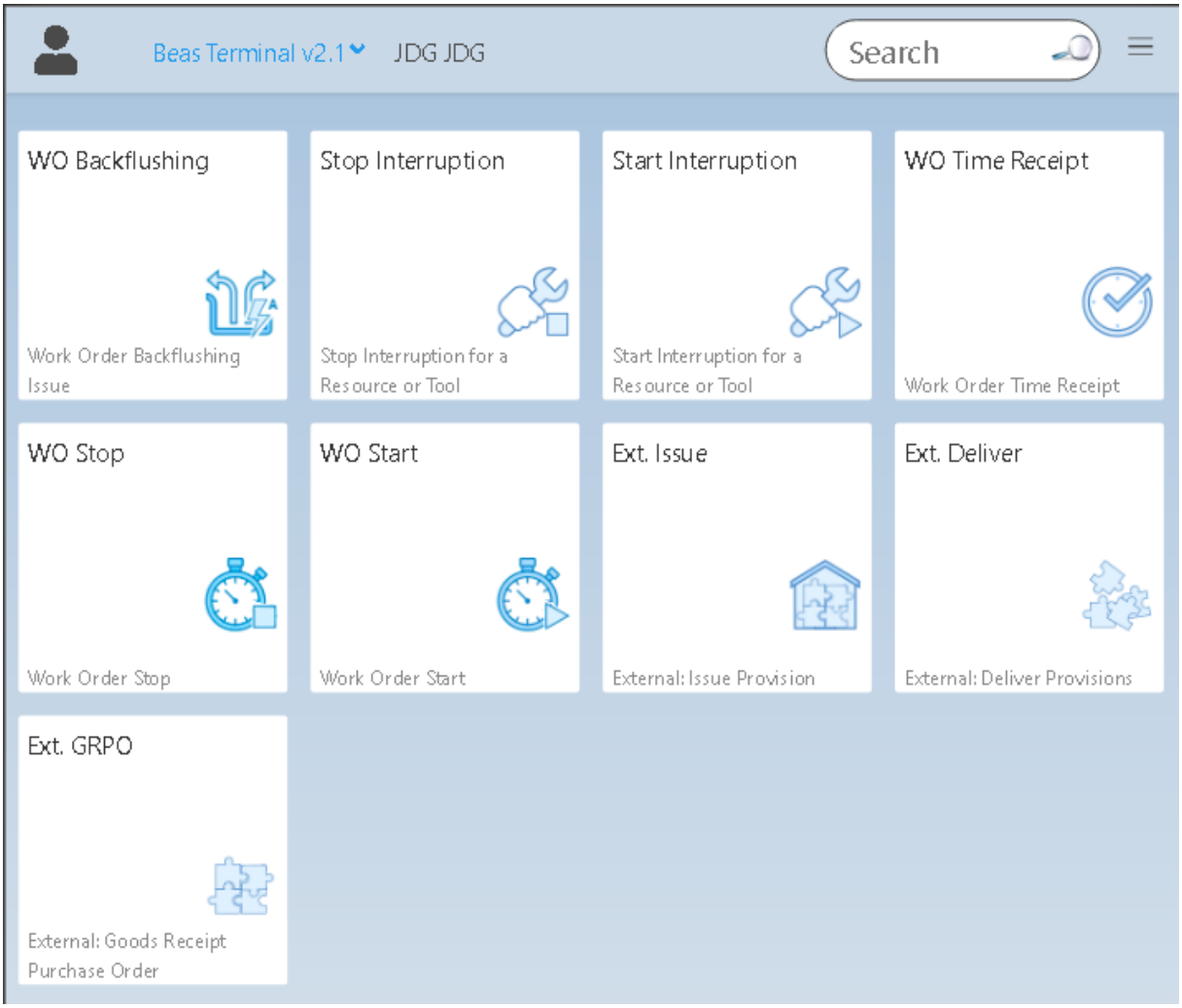
New in *beas 9.3 PL 1*: Maintenance orders

Desktop Terminal:



WebApps:

© 2026 Boyum IT Solutions A/S

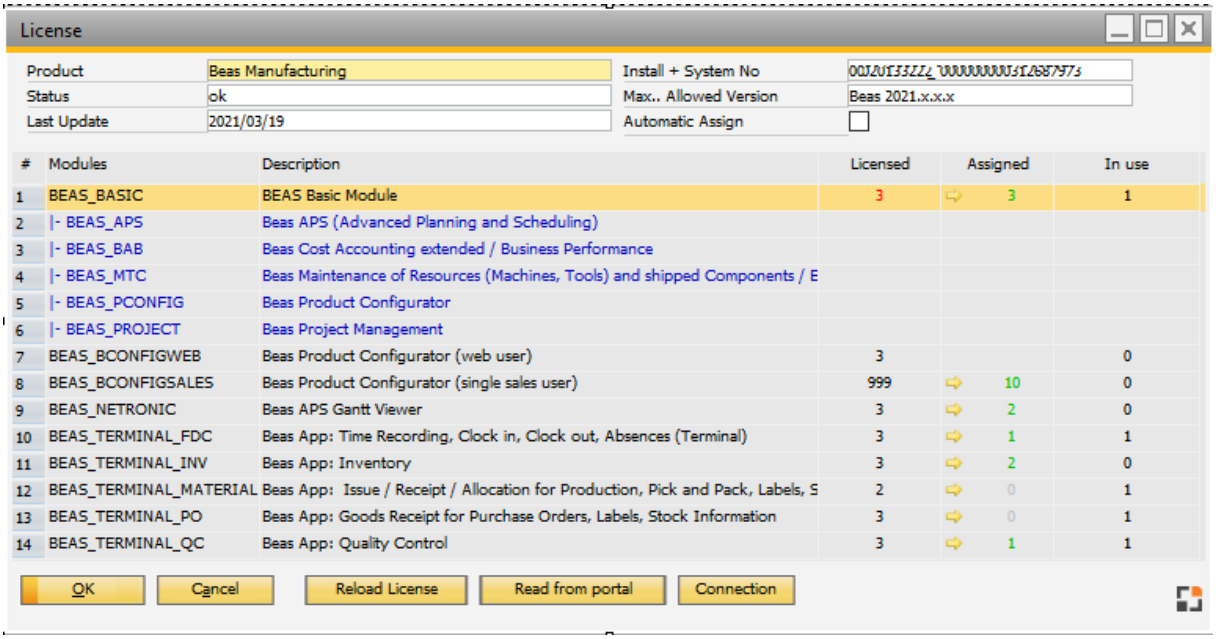


3.5.7 License Administration (Beas)

PATH: Administration > License > License Administration

In this window you can manage the administration of different Beas licenses.

© 2026 Boyum IT Solutions A/S



Window system_lic_main.psr

In the Header you can find an overview of the current installation.

Header - fields

Field	Description
Product	Name of product (Beas Manufacturing)
Status	Status of current license The following status variants are possible:

Status	Description
OK	All OK
wrong license data or encryption error	It is not possible to connect to Boyum license server. Please check firewall. System needs the possibility to connect to boyum.com. Other problem: Not registered to Chilkat library. Offline import: wrong file

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Status</th><th>Description</th></tr>
<tr><td>wrong structure in license xml file</td><td>License information is wrong.

Offline import: wrong file</td></tr>
<tr><td>Wrong product ID</td><td>The license information is not for this product.</td></tr>
<tr><td>Wrong installation ID</td><td>The license information is not for this SAP installation.</td></tr>
<tr><td>Outside valid date</td><td>License is out of date.</td></tr>
<tr><td>Maintenance version date</td><td>For this license maintenance is not paid</td></tr>
<tr><td>Count of assign basic users wrong</td><td>Count of users higher than the number of licenses.</td></tr>
</table>
</td></tr>
<tr><td>Last Update</td><td>Day of last license update from Boyum Portal in format Year/Month/Day.</td></tr>
<tr><td>Install + System No</td><td>Current installation- and system number.
This information helps you to get a license in a simple form. Copy the information and insert this directly in the license.</td></tr>
<tr><td>Max.. Allowed Version</td><td>Beas version number up to which the licenses are valid for paid maintenance.</td></tr>
<tr><td>Automatic assign</td><td>Check mark to assign licenses automatically
Only for Beas Basic License:

If activated, and a free, unassigned Beas Basic license is available and a new user starts Beas, the system assigns this user automatically to this new user. This makes the first use simple.
If activated, the system automatically helps assigning the first free Basic license to the new user.

Note:
For "Product configurator single sales user" and "APS Gantt Viewer" you must define the assignment manually.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Columns

Column	Description
Module	Name of module / License type For example BEAS_BCONFIGWEB (Web Configurator), BEAS_PROJECT (Beas Project management) . You can see only active licenses. Blue Modules (APS, Cost Accounting and so on) managed by Beas Basic License. Means: This Licenses are activated or not. But only User with Beas Basic License can use it. For more information on the different license types ***see*** License types.
Description	The description of the module, for example "Web Configurator" for BEAS_BCONFIGWEB.
Licensed	The number of in Boyum portal licensed licenses. If all licenses are in use or assigned, the entry is red, otherwise black.
Assigned	Administrate the assignment to the user or station
Assigned 2	Count of licenses that are assigned, but not in use. ***Example:*** Manager has a license (defined in assigned), no additional user Assigned = 1, Assigned 2=1, in Use = 0 Now manager starts Beas and logs in to the program. In this moment the system takes the assigned license. Assigned = 1, Assigned 2=0, in Use = 1
In Use	Count of currently used licenses. BEAS BASIC: this is the count of licenses, which are in use, not count of sessions. ***Example:*** User 1 starts Beas on Station A and user 2 starts Beas on Station B. In this case, "in Use" is 2.

© 2026 Boyum IT Solutions A/S

Column	Description
	User 1 starts Beas on Station A 2 times. In this case, "in Use" is 1, but "Total" is 2. User 1 starts Beas on Station A and Station B. In this case, "In use" is 1 and "Total" is 1, because the system moves the active license to Station B.
Total	Total number of connections (see in Use)

Functions

Button/right-click function	Description
Cancel	Close window without saving changes.
Read license from portal	Click this button to read your licenses from the Boyum Portal. Note: Internet connection must be available and the system need the possibility to access boyum-it.com sides (check firewall).
Reload license	Reload the list of licenses from current database (or refresh, example after changing any assignments)
Connection	Show active connections
Delete license	Delete license information from current Database With this function you can disable the license system in the current database. You can click on "Read from portal" if you want to read the license information from the Boyum portal.

See article on License administration questions and answers.

3.5.7.1 Administrate license assignments

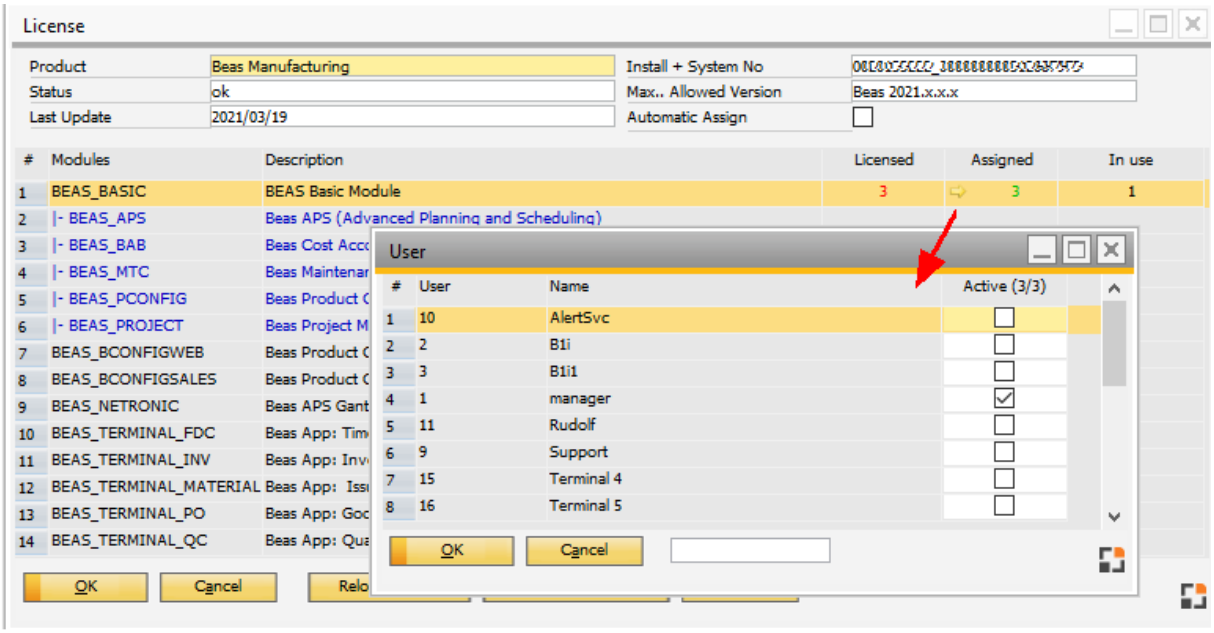
With a click on the yellow arrow in the assigned column you can assign the User/Personnel/Station and so on.

© 2026 Boyum IT Solutions A/S

Basic License / Product configurator (single sales user)

You can define the user, for which you want to reserve the license.

Only Basic License: if "Automatic Assign" is active, the system assigns a license to a user automatically if a license is free.



Window system_lic_userbrowse.psr

Beas APS Gannt Viewer

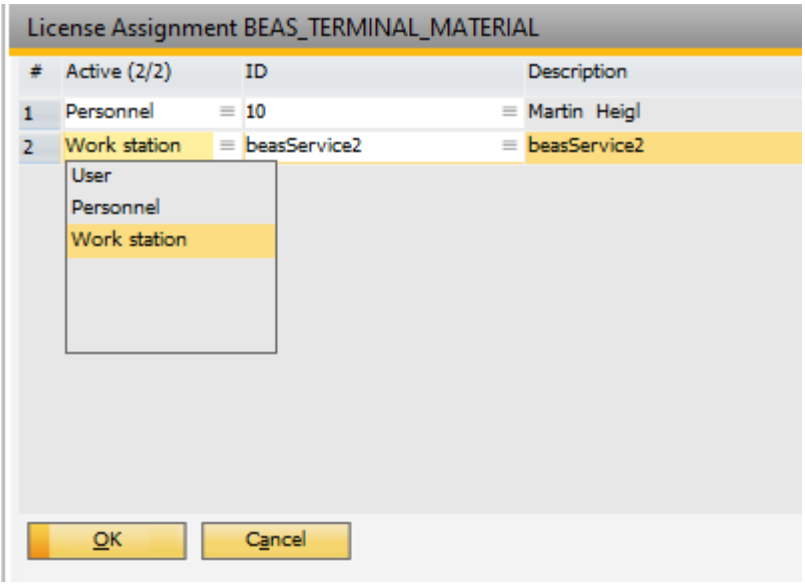
The Viewer assignment is per Station. The station is managed in the Station Setting Wizard. If Beas is started on a new station for the first time, the system creates an entry in the Station setting wizard automatically.

If you click on the yellow arrow in the column "Assigned", the system opens a form, in which you can choose the stations.

App Licenses / Terminal

For this type of license it is possible to reserve license for a user, personnel entry or station.

© 2026 Boyum IT Solutions A/S



- User: Only Terminal desktop: The user, which is used for the program start.

- Personnel: The user that wants to use the app.

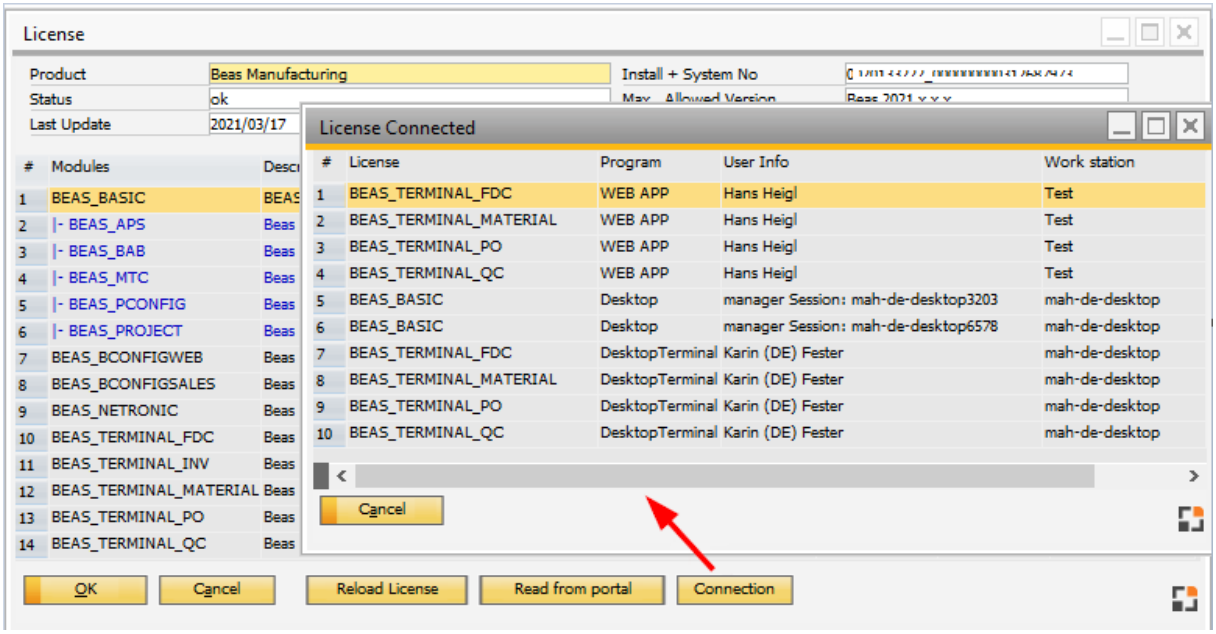
- Work station: Terminal desktop: The Windows station ID; WEB APP: the location defined in the login mask (optional).

Priority:

For login the system searches for the Work station first, then the User, and then for the Personnel reservation.

3.5.7.2 Connections

In the connection page you can see all current connections.



© 2026 Boyum IT Solutions A/S

Field	Description
License	The license ID which is in use.

Type of Connections

Type	Description
Beas Basic	If you start Beas, the system searches for Beas Basic License. If available, the system checks whether the license is used on another station. If yes, you can move the active license to the current station. The user can start Beas on one station more than once without additional licenses, but only on one station at a time. In this case you can see 2 entries, for every start. For this, Beas creates a unique Beas Session ID for every Beas session. On the right side of the User you can see the used Session ID.
BEAS Product Configurator (Single Sales user) Beas APS Gannt Viewer	The system checks if the license reservation exists, but it does not create a license reservation. You cannot see an entry in the connections.

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Type</th><th>Description</th></tr><tr><td>Beas Product Configurator (Web User)</td><td>This is is used for the WEB Configurator. You need a license for every Session (not User or Employee). In "Connection" you can only see the Session ID. Note: The user must click on "logout", otherwise the license is not free. It takes up to 10 Minutes for deleting the license reservation.</td></tr><tr><td>Beas Terminal License</td><td>WEB APP: The system reserves the license if you connect to the WEB APP, and disconnects the reserved licenses if you click on "Logout". IMPORTANT: If you don't click on "Logout", it takes up to 10 Minutes before you can use the license again. Desktop: The system reserves the license only while you are logged in.</td></tr></table>

© 2026 Boyum IT Solutions A/S

Field	Description
	For more information about license ***see*** license types.
Program	The program type which uses the license Desktop: Beas Standalone or SAP integrated. Desktop Terminal: Beas started as Terminal. WEB APP: Web Application.
User Info	The User Name (Basic License) or Name of personnel (Terminal / App license).
Work station	The Work station ID (if available) If remote session: the computer name of the terminal server + windows login name of current Windows user.

Functions

Function	Description
Disconnect	Disconnect the License. Note: This can take up to 10 Minutes before the license is removed from the station. If available, the related station tries to take another free license directly.
Refresh	Refresh the connection list.
Disconnect all	Disconnect all connections Note: All clients try to reconnect if license is available. This can take up to 10 Minutes.

Additional fields (window settings)

Field	Description
User ID	SAP User ID of the current connection
User Name	Name of SAP User from the current connection
Windows Login	Login Name of current windows session

© 2026 Boyum IT Solutions A/S

Field	Description
Personnel	Personnel ID from current Connection (Beas Personnel entry)
Personnel Name	Name of the Personnel
Work station ID	Work station ID (or Windows User, if remote Session)
Work station Name	Work station Name (must be defined in Work station setting wizard.
Work station Location	Location of Work station (must be defined in Work station setting wizard.
Session	Unique Session ID Note: Every Beas Start or WEB Application has its own Session ID.
Life time	At this time the connection will be removed if the session does not refresh it.
Ping	Last connection from the session to the license system.
Assigned	If active, the license is in use from the current session.

See article on License administration questions and answers.

3.5.8 Terminal License concept

Beas supports different Terminal types:

Beas Desktop Terminal
Beas WebApps 2.1
Beas WebApps 1.0 (only for compatibility)

All use the same license pool with the same concept:

In **Terminal Functions > Edit Group > Choose apps** you can see the License needed for the apps.

Concurrence of users

IMPORTANT: User login blocks all licenses that are assigned to the user! These licenses are released

© 2026 Boyum IT Solutions A/S

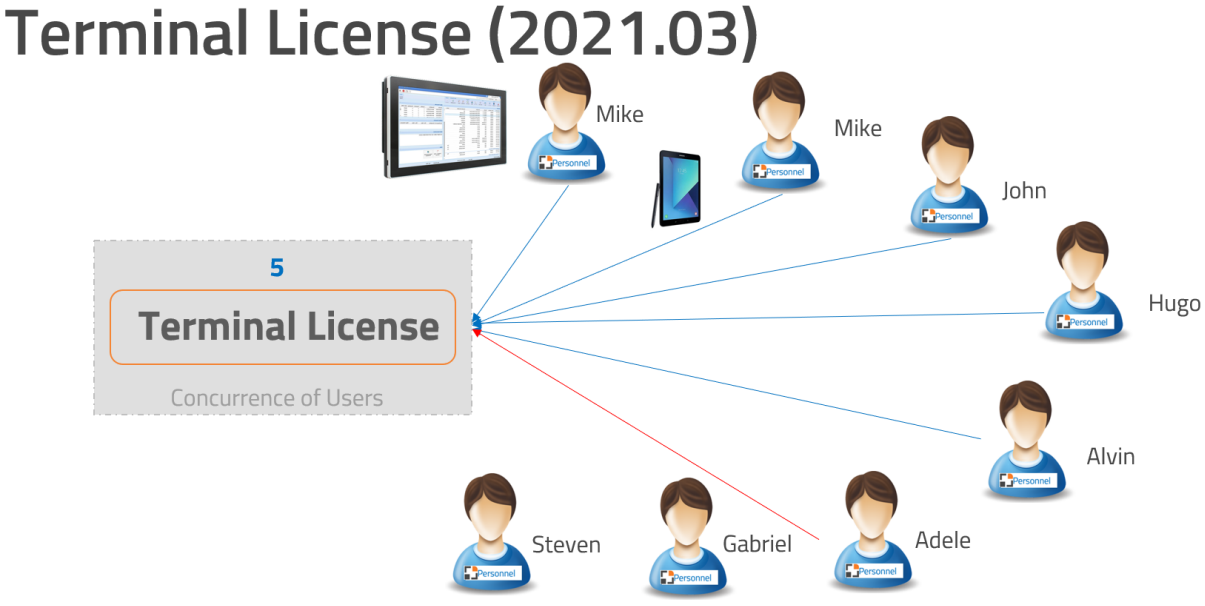
for use again once the user logs out.

Licenses can be reserved by user, machine or Beas operators.

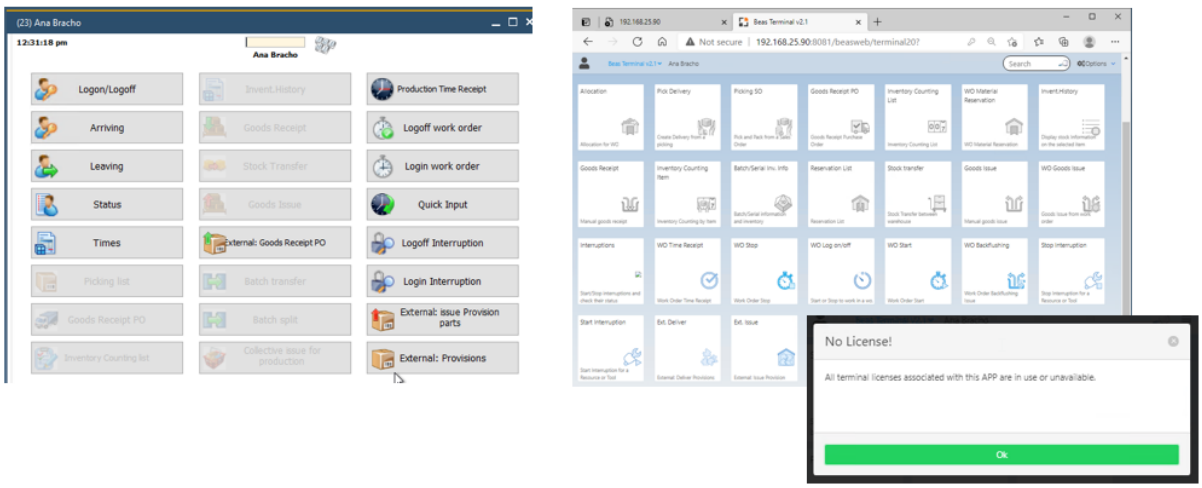
See License Administration (Beas)

Article on License administration questions and answers

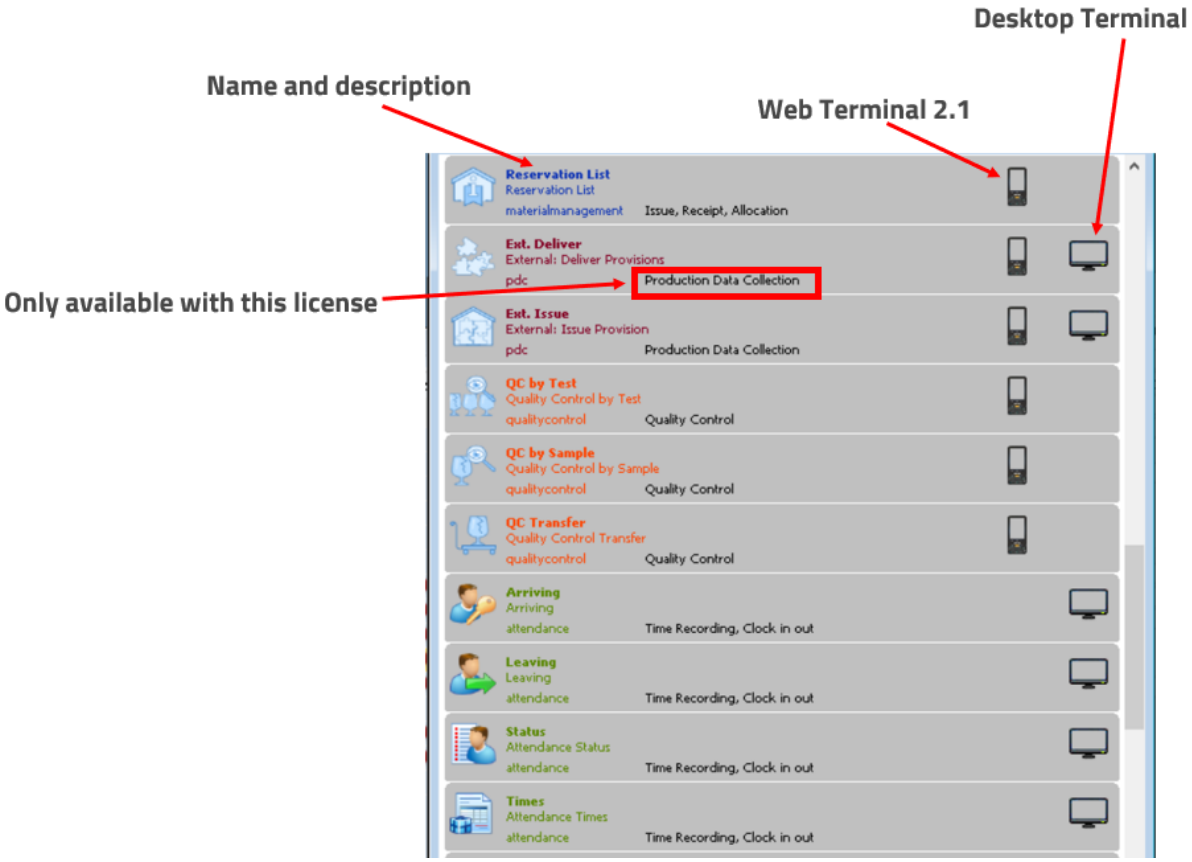
Example: A company has 5 Terminal licenses. Five users are using the 5 licenses each - therefore, the number of available licenses is 0.



Apps that are not available for the user in lack of license are grayed out (disabled).



© 2026 Boyum IT Solutions A/S



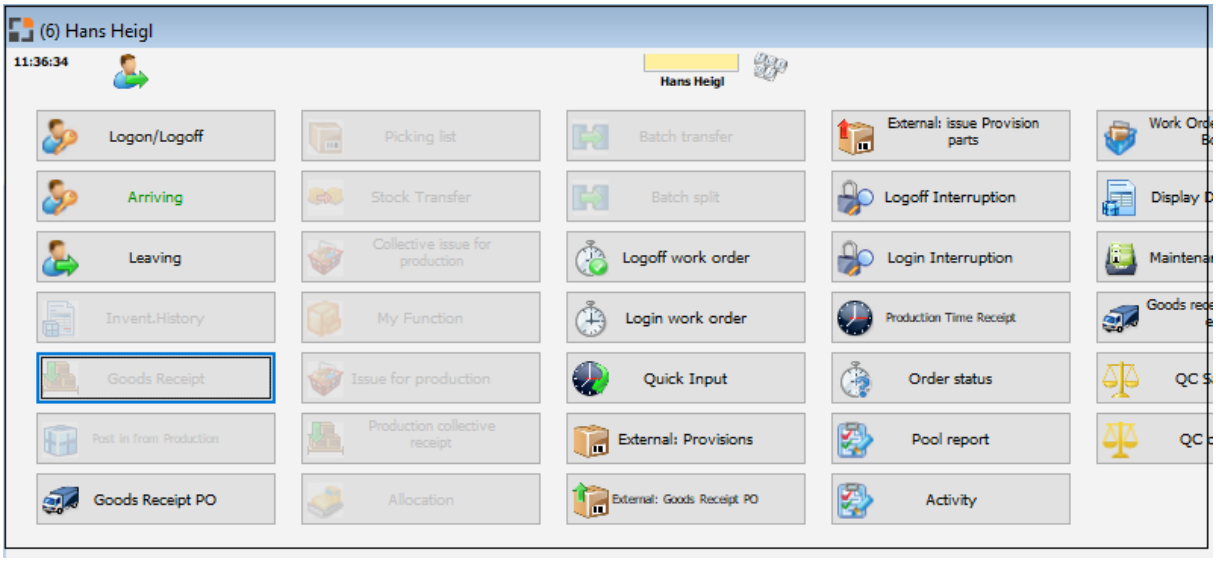
NOTE: Upon login all available licenses related to the authorization groups will be set as "In Use".

Desktop Terminal

If you start the Desktop Terminal, you do not need any license.

If you login in Desktop Terminal, the system tries to use needed licenses. If available, the license will be reserved. If not, the app needing the license is grayed out. If you hover the mouse over or click on the button, you can see the info that the license is not available.

© 2026 Boyum IT Solutions A/S



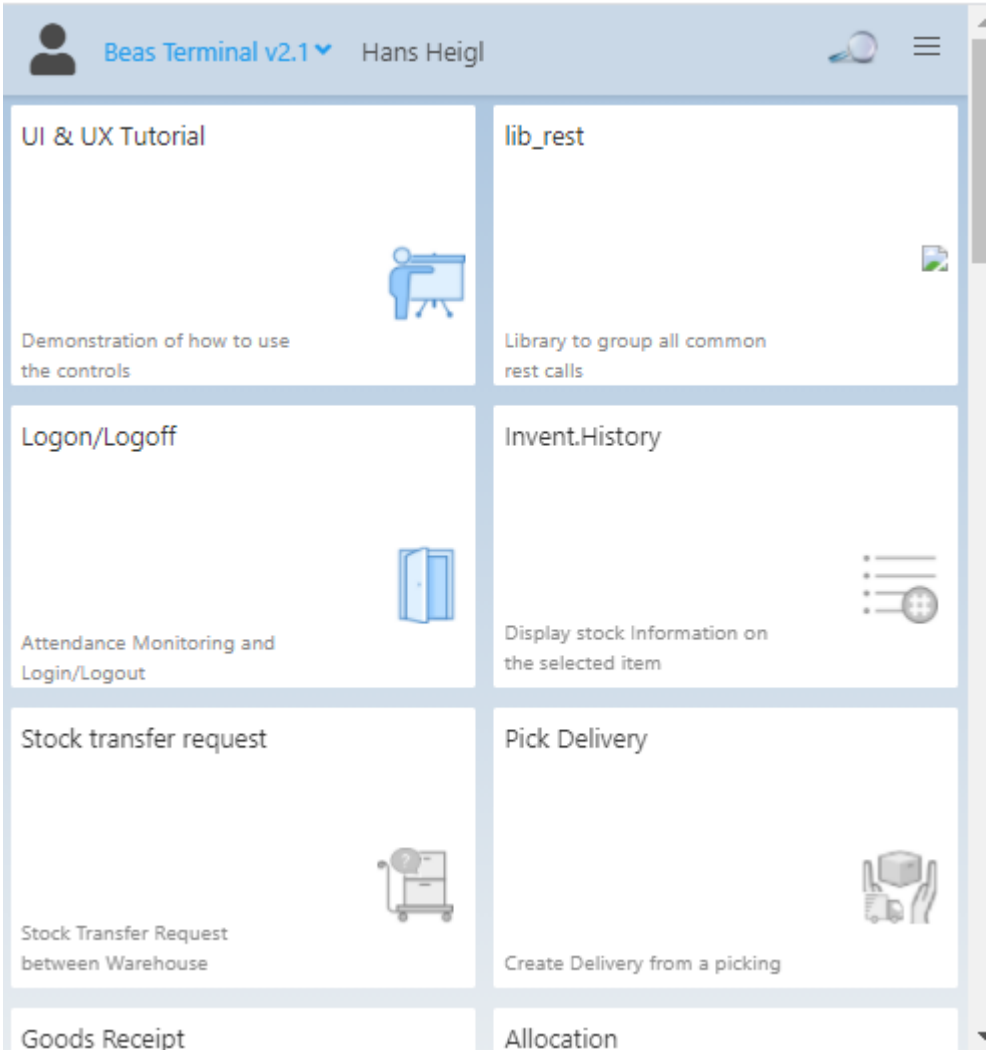
WEB APP

In WEB APP the license is reserved in the moment of Login.

> Note: The user must choose "Logout", otherwise other users cannot use the license up to 10 Minutes.

If the license is not available, the system displays the APP in gray.

© 2026 Boyum IT Solutions A/S



Note:

Do not try to manipulate the system. If you delete the license information, the back-end will not work correctly.

ATTENTION: If you close WebApps without logging out, the system keeps the license in use for several minutes. After that the system automatically releases the license.

3.5.9 Concurrence of Users

Concurrence of users

IMPORTANT: User login blocks all licenses that are assigned to the user! These licenses are released for use again once the user logs out.

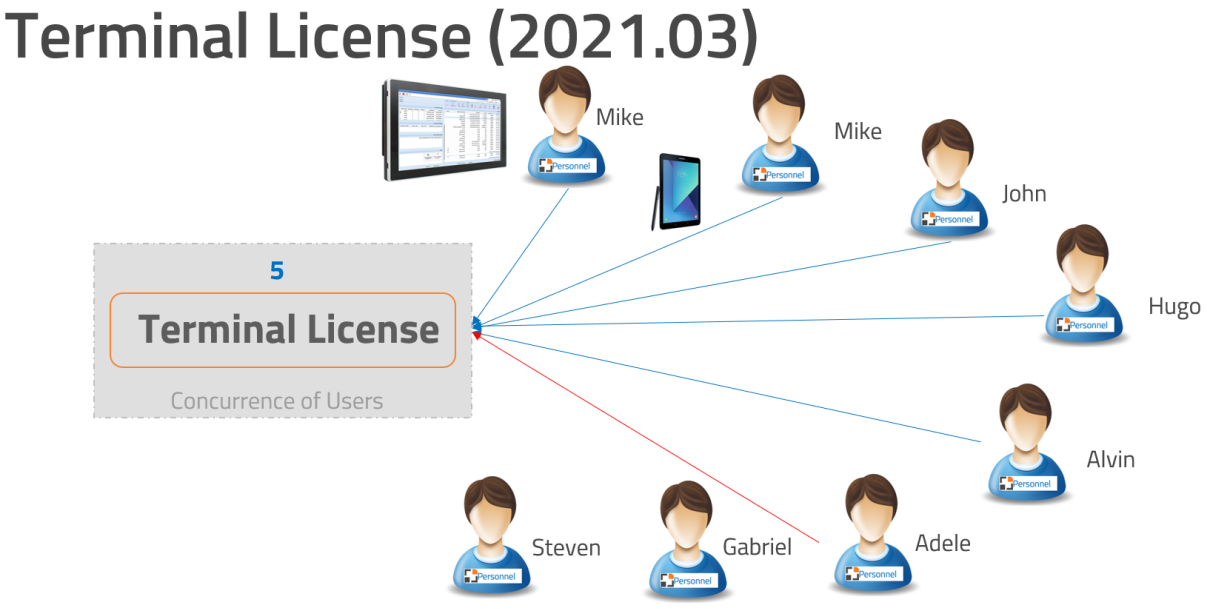
Licenses can be reserved by user, machine or Beas operators.

See License Administration (Beas)

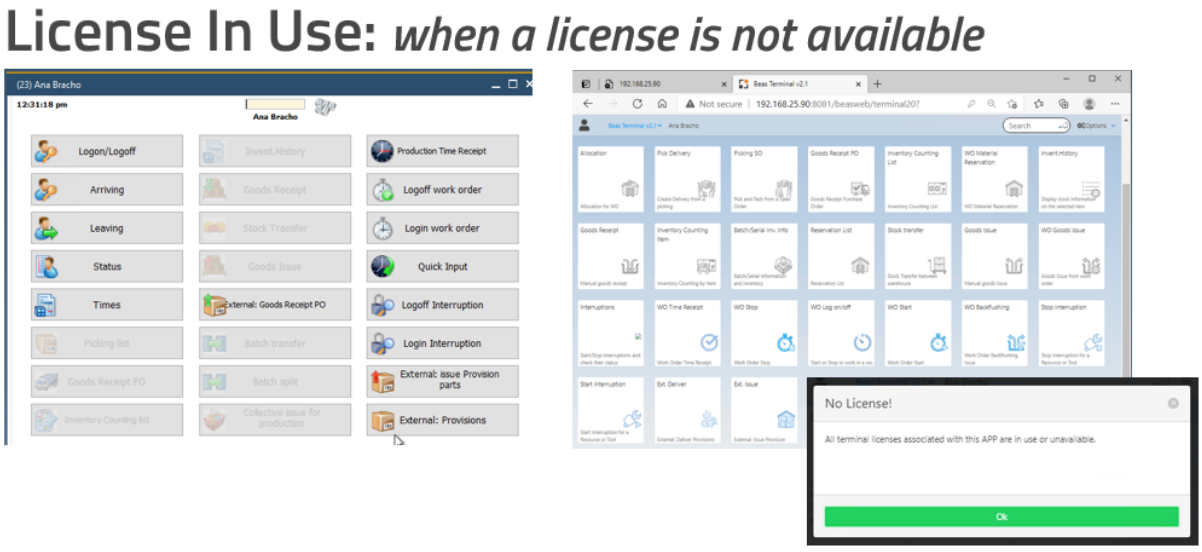
© 2026 Boyum IT Solutions A/S

Article on License administration questions and answers

Example: A company has 5 Terminal licenses. Five users are using the 5 licenses each - therefore, the number of available licenses is 0.



Apps that are not available for the user in lack of license are grayed out (disabled).



3.5.10 Customization and Licenses

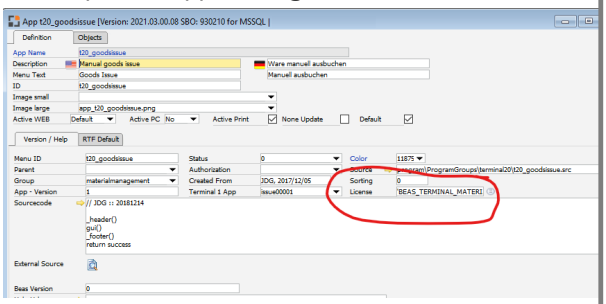
In Beas it is possible to create your own WEB APPs or Windows.

In Beas every end-user interface (App or Window) must describe, which License it needs for using.

© 2026 Boyum IT Solutions A/S

The system reserves the license (Terminal license) or checks if the necessary License is available (for example Beas Basic License).

If the window/app tries to use the Beas functionality, the system checks if defined/reserved License is available. If not, the system returns a license error for this customization App/Window.

Type	Description
Beas Terminal and WEB APP	If you create your own apps, you must define which License is necessary for your app. You can define this in field "License", for example: "BEAS_TERMINAL_FDC", "BEAS_TERMINAL_MATERIAL" and so on. Choose only 1 License. ***See*** License setting in Program groups development app editing.  *Window webprogram_edit.psr* IMPORTANT: If the license is not defined, the App cannot use the back-end functionality.
Own Windows	Own windows created with Powerbuilder, JBS or Beas Script: Please contact Beas support if you create windows for using Beas Back-end functions.

3.6 Add-ons

In this menu entry you can manage different Add-Ons.

Add-On manager (Beas)
Beas Usability Extension
B1 Usability Package

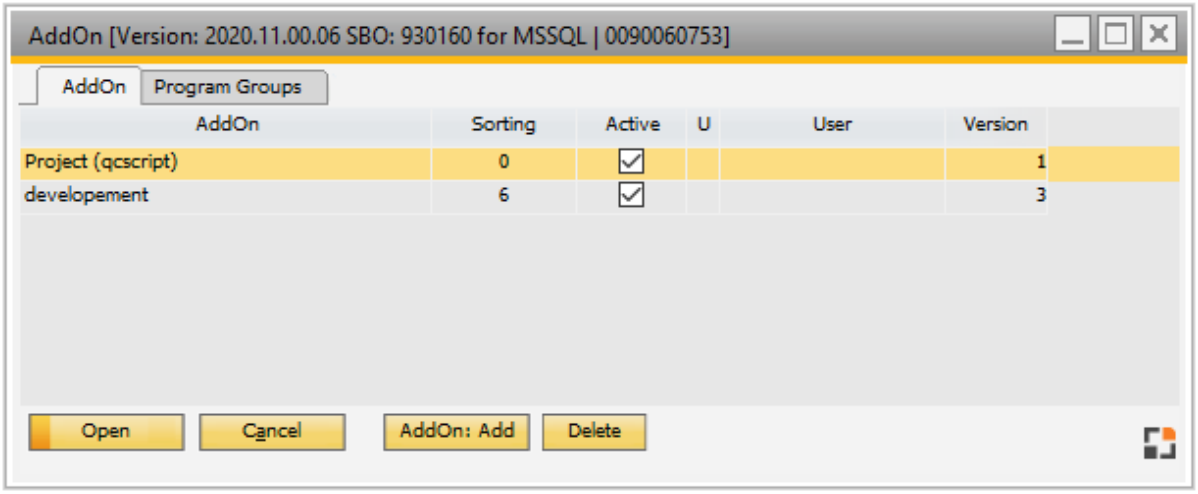
© 2026 Boyum IT Solutions A/S

Produmex WMS Integration

3.6.1 Add-on manager (Beas)

PATH: Administration > Add-Ons > Add-on-Manager (Beas).

Beas has its own Add-On-administration. Every partner can develop their own customized Add-Ons and install them at customers. These can be adapted for all customers.



Window system_addon_browse.psr

All installed Beas-Add-Ons are displayed in a list.

Field	Description
AddOn	Name of the Add-Ons.
Sorting	Ordinal number of sorting (sorted by priority).
Active	Check mark if Add-On is active.
U	An icon will is displayed in case not all users have access to this extension.
User	List of users for whom the extension is loaded. Set up by double-clicking the field.
Version	Number of installed versions.

Functions

Button	Description
Open	Edit the currently selected Add-On – opens the editing window. It can be edited only at the first entry.

© 2026 Boyum IT Solutions A/S

AddOn: Add	Create new Add-On.
Delete	Delete currently selected Add-On.
User	Determines the user to load the extensions for. Note: The user definition only applies to the Add-Ons folder. It does not apply to the Project folder of the customer.

3.6.1.1 Customer-specific Adaptation

Beas can be adapted customer-specifically:

- Insert additional function buttons anywhere in Beas forms and SAP Business One forms
- Insert any functionality in Beas and SAP Business One forms on the basis of any events
- Insert new lists, windows and reports
- Block any fields and buttons on the basis of any events and/or specifications

All functions, changes, forms and reports are stored as files in a special directory on the server and then copied locally to the clients.
Alternatively a central folder can be set up to which the clients have access. ***See*** **Configuration wizard >** System

For detailed information on customizations ***see*** Script Documentation.

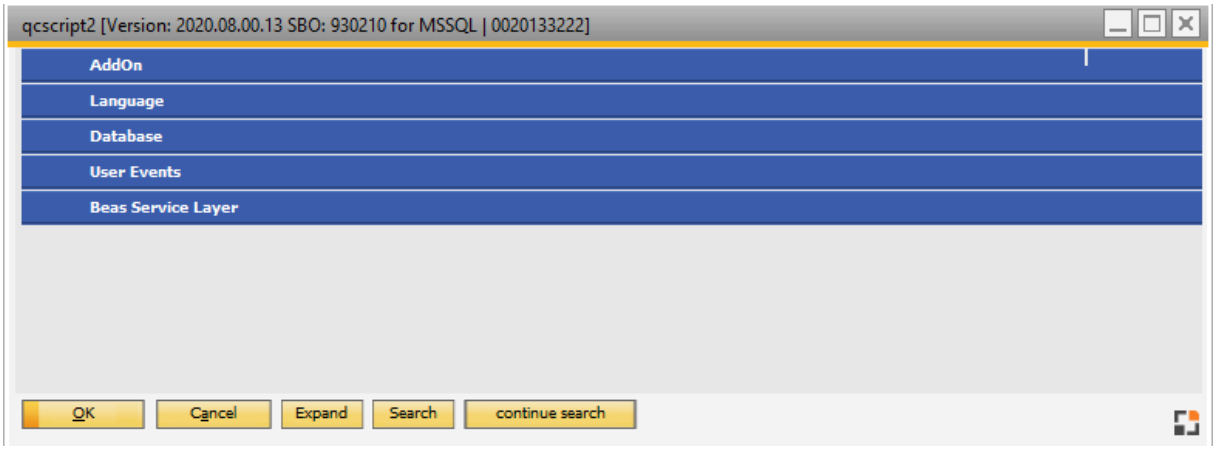
see:
Editing window for Beas Add-Ons
Folder for customized extensions
Change objects in Beas
Data window-syntax
Insert own fields in personnel edit window

3.6.1.1.1 Edit beas AddOns

PATH: Administration > Add-Ons > Add-on-Manager (Beas) >

1. Select Addon >
2. Click **Open** button.

© 2026 Boyum IT Solutions A/S



Window system_ option_ struktur.psr

Button	Description
Customized extension	Enter name and location of the Add-Ons.
Folder	Open the central project folder Only visible if working with a central project folder: Open the windows explorer in this folder.
Block client update on this station	Prevent an automatic update on the project folder Only visible if you do **NOT** work with a central project folder: Prevent adjustment of the local project folder. ***Use example:*** The extensions are developed at this station. This option can be activated for preventing an "overwriting" accidentally through an adjustment.
Request a client update	Request update of the project folder for all clients Only visible if **NOT** working with a central project folder: As soon as the clients restart Beas, the project folder is updated. The entry "version" is increased in the project folder on the server in the file "version.ini".
Distribute local changes	Distribute the local project folder to all clients Only visible if you do **NOT** work with a central project folder:

© 2026 Boyum IT Solutions A/S

	All changes in the local folder are copied to the server > project folder and a distribution is requested to all clients. As soon as the clients restart Beas, the project folder is updated. The entry "version" is increased on the server in the project folder in the file "version.ini". Note: All files are copied but not deleted.
Local document	Open the local project folder Only visible if you do **NOT** work with a central project folder: Open the file explorer on the local client.
Server document	Open the project folder on the server Only visible if you do **NOT** work with a central project folder: Open the file explorer on the local client.
Language	Language settings

Language table	The translation in the project folder is saved in the file "lanuage.psr" and updated when: a) The addon is registered, b) The language is updated, c) Something is changed in this window.
Messages	Own messages for own extensions can be stored here for all user languages. The translation in the project folder is saved in the file "message.psr" and is updated if: a) The addon is registered, b) The language is updated, c) Something is changed in this window.

Database	Database settings Define own Database Fields

© 2026 Boyum IT Solutions A/S

	Edit table extensions: Edit database extensions. These are saved in db.ini. ***See*** "structure of the DB.INI" Edit rights: Edit further authorizations which are displayed in the user rights administration.
User events	Customer-specific functions Beas allow to insert additional functionality in the business logic. This is not window related and the scripts running complete in back end - in Beas Desktop / Terminal / WEB solution, Beas Service Layer and Data Integration hub. The following areas are available: Addon: Edit details with BeasScript editor. Menu: Edit details with BeasScript editor. MRP: Edit details with BeasScript editor. QC: Edit details with BeasScript editor. Calculation: Edit details with BeasScript editor. Stock management: Edit details with BeasScript editor. Work orders: Edit details with BeasScript editor. APS: The **Details** button opens the script editor with the file APS.SRC and creates the function or jumps to the existing function. For more Information ***see*** BeasScript documentation – User events
Beas Service Layer	By clicking on the button "**Details**", you can insert the additional functionality for Beas Service Layer. For more information ***see*** Beas Service Layer documentation.

back to Customized Extensions

© 2026 Boyum IT Solutions A/S

3.6.1.1.2 Distribution

Distribution is only necessary if no central folder for customizations was set up. ***see*** setup folder for customizations

If you do not have a central project folder, the following rule applies:

All development work is stored locally in the directory **%programdata%\beas\project\[name]**

Once completed, the contents of this directory are copied manually to the server:
\\[servername]\b1_shr\beas\project\[name]

Finally, via **Extra / Add-on Management / Development / Customer-Specification "Force client update"** the clients are instructed to perform an update.

Note:
For clients, the directory **\\[servername]\b1_shr** must be specified as the program server directory.
This is done either during the client installation or
a) Beas without starting SAP Business One
b) In the login window "Option" under "Program server"
The download is only performed when the application is restarted.

see setup folder for customizations

back to customer specific adaptation

3.6.1.1.3 beas script editor

Beas can be customized easily and in different ways.
Beas has its own script language called BeasScript.

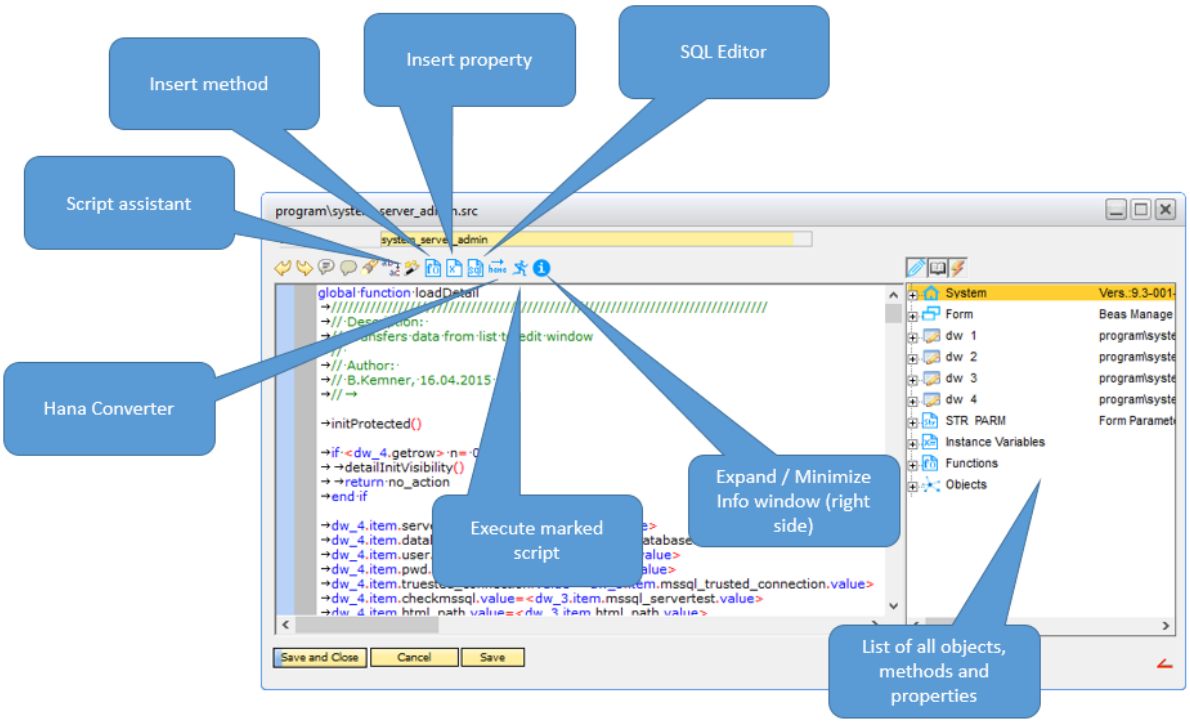
With the integrated script editor it is simple to create customization with BeasScripts.

User rights:
Validate if the user has rights to open the SQL screen. ***See*** Right management SQL.

Examples for using Beas script editor:
- window-related – tools – extensions for clients

© 2026 Boyum IT Solutions A/S

- Beas usability extensions – universal function – Beas script



The script assistant helps you to start with BeasScript. ***See*** BeasScript assistant.

Videos:
Display content of a datastore

3.6.1.1.3.1 beas script assistant

Starting programming with an empty page is a complex task.
The idea of a script assistant is that it inserts an example script that can be modified.

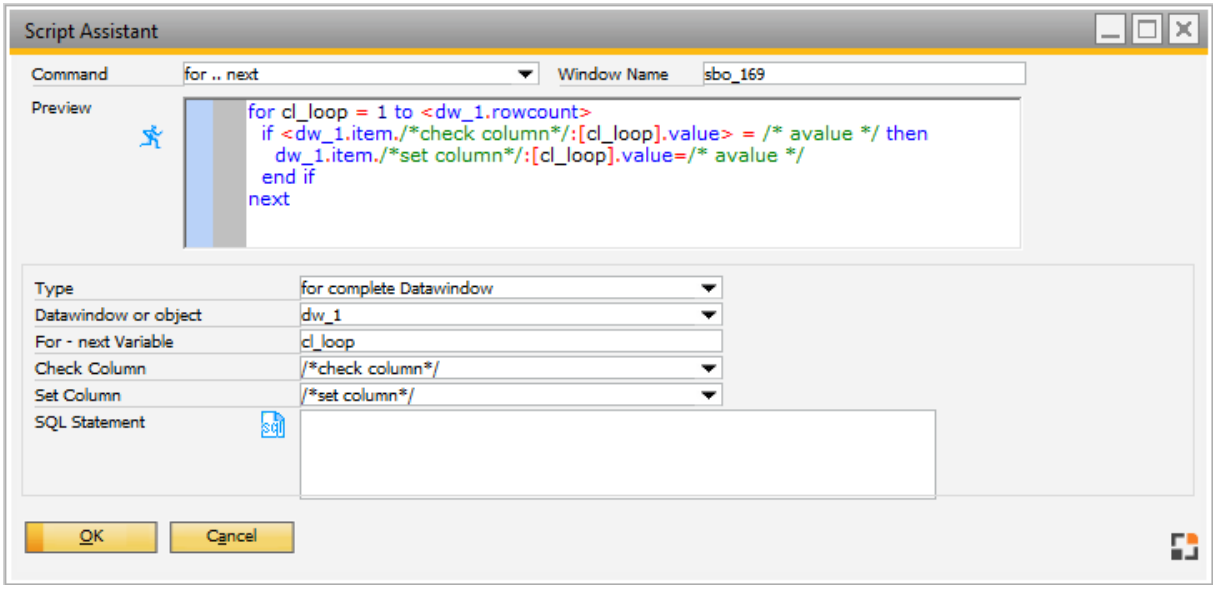
Open the script assistant in BeasScript editor – by clicking the / icon to assist the creation of a script.

In the Command you can choose the area, e.g. "for ... next" from a drop-down menu and you can see the generated script directly in the Preview section.

Related to the chosen command, there are additional parameters.
If you change the values, Beas generates the correct script automatically.

© 2026 Boyum IT Solutions A/S

Do not change the generated script on this place.



Window sys_script_assistent.psr

If you click "**OK**", Beas inserts the generated script in the Beas script editor or in the editor from which you executed it.

Here you can start custom development.

3.6.1.2 Add-on management

Beas Manufacturing 2026.04 includes proprietary add-on management. This allows every partner to develop their own customer-specific add-ons and install these for any number of customers. These can then be adapted in turn for each customer. It is also possible to create chargeable add-ons.

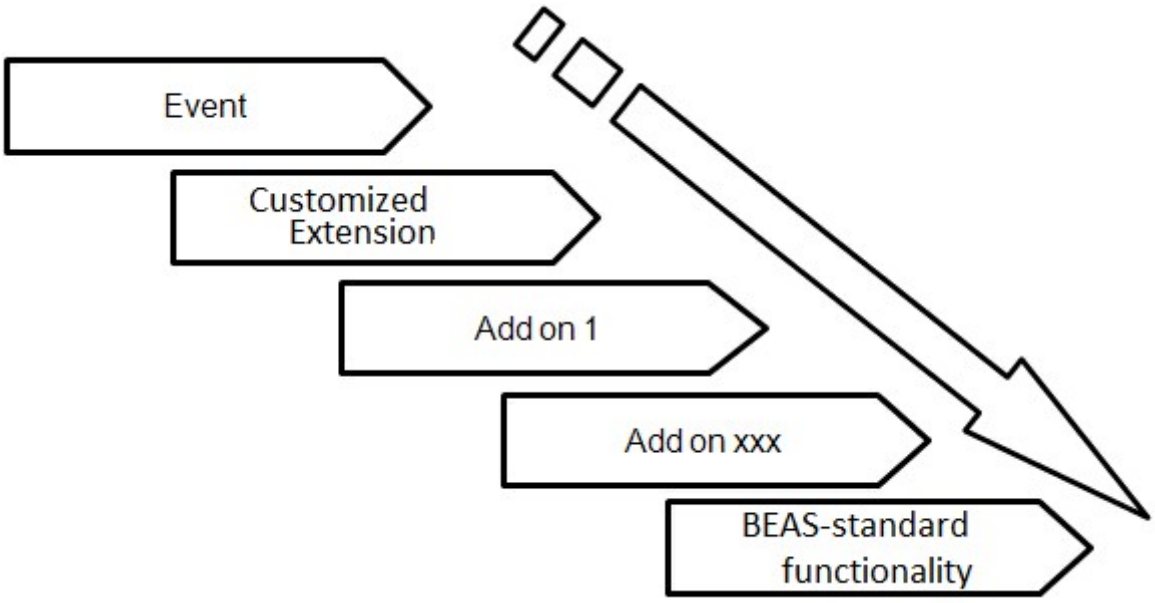
Overview of functions

- Add-ons can be installed as necessary in Beas
- Add-ons can provide new functions in Beas
- Add-ons slow beas either insignificantly or not at all
- Add-ons have minimal memory requirements
- Add-ons can be adapted on a customer-specific basis
- Customer-specific adaptations (project directory) are treated as an add-on but with the highest priority

Event handling

When an event is triggered in Beas, it is processed as follows:

© 2026 Boyum IT Solutions A/S



Creating add-ons

Add-ons are programmed in BeasScript. The corresponding windows are created with Powerbuilder or Infomaker.

All events are also accessed using BeasScript. At the end, it is all saved in an .src file which you can then simply copy for distribution.

Possibilities when creating add-ons using BeasScript:

- Proprietary rights management
- Proprietary report management (multilingual messages)
- Proprietary window-related translation
- Add-ons can be created in any language
- Proprietary installation, initialization, program ending and de-installation of scripts (also BeasScript)

3.6.1.3 CKS.DMS Software

CKS.DMS for SAP Business One: Document management system of company C.K Solutions

The document management system (CKS.DMS) is integrated in a way that an OCR process (text recognition) and creation of keywords is started automatically after scanning and printing a document in the background . Via document or business partner you can access all documents in a preview, which also provides a search feature over the complete archive.

© 2026 Boyum IT Solutions A/S

To archive other documents (e.g. Office Documents or images) there are simple archiving features available. These documents are included in the indexing, to achieve better results.

Use CKS.DMS to archive item master data, work orders, complaints, and QC-orders.

IMPORTANT:
Click here to see how to add a User.

See CKS.DMS Addon Installation

3.6.1.3.1 CKS.DMS Addon Installation

Installation prerequisites:

For CKS-DMS Addon at least beas version 9.1-004-056-000 is required, CKS.DMS at least in version 3.2.0.3.
Proceed to: **Administration > Add-ons > Add-on Manager (beas)**

Click on "**add**" and select "CKS.DMS" from list of AddOns. Activate CKS.DMS to install.

3.6.2 Produmex WMS integration

The Produmex WMS integration to Beas Manufacturing provides better manufacturing management capabilities to Produmex WMS users, and extends logistic support for Beas customers - especially companies requiring serialization.

Beas - WMS integration information package
Click the above link to find out about the latest changes and improvements of the integration. The details described in this documentation are updated upon each version update of both software products.
You can also access the documentation linked on the Beas helpsite: http:\\help.beascloud.com.

Current versions:
BEAS Manufacturing 2026.04

© 2026 Boyum IT Solutions A/S

Produmex WMS 2026.04

See

Pick list for production work flow

Picking for production work flow

Pick list for Production window description

3.6.2.1 Picklist for production workflow

In this workflow, Beas provides the material requirements to Produmex WMS for a work order position to create a WMS Pick List.

Prerequisites

- In Produmex WMS the PMX SBO Notification Listener process must be installed and running.
- In Beas the Common Interface must be running.
- It is recommended to have the Reservation system active.

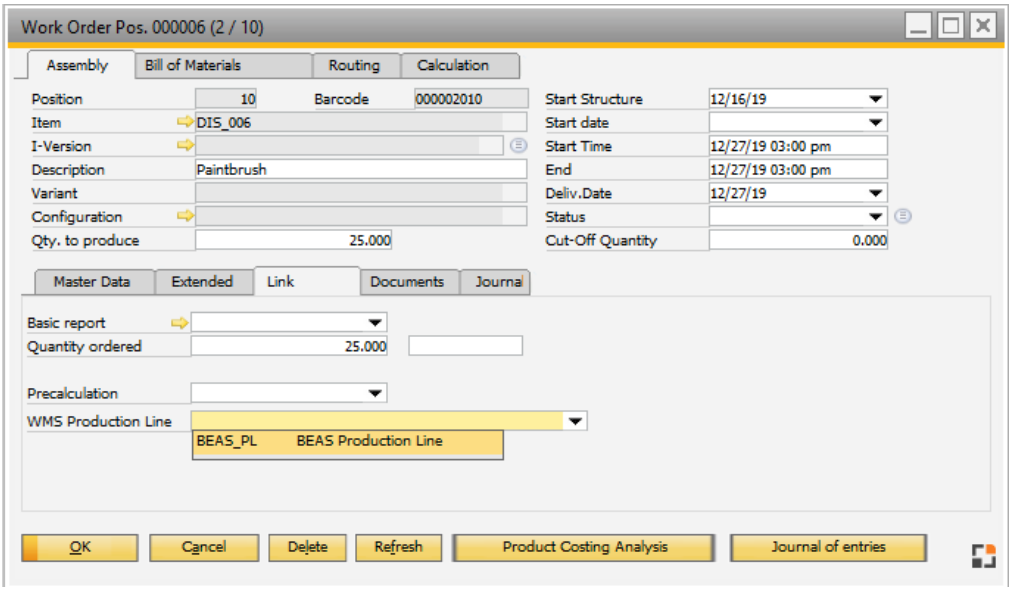
Limitation:

WMS picking process does not support Beas I-Version control.

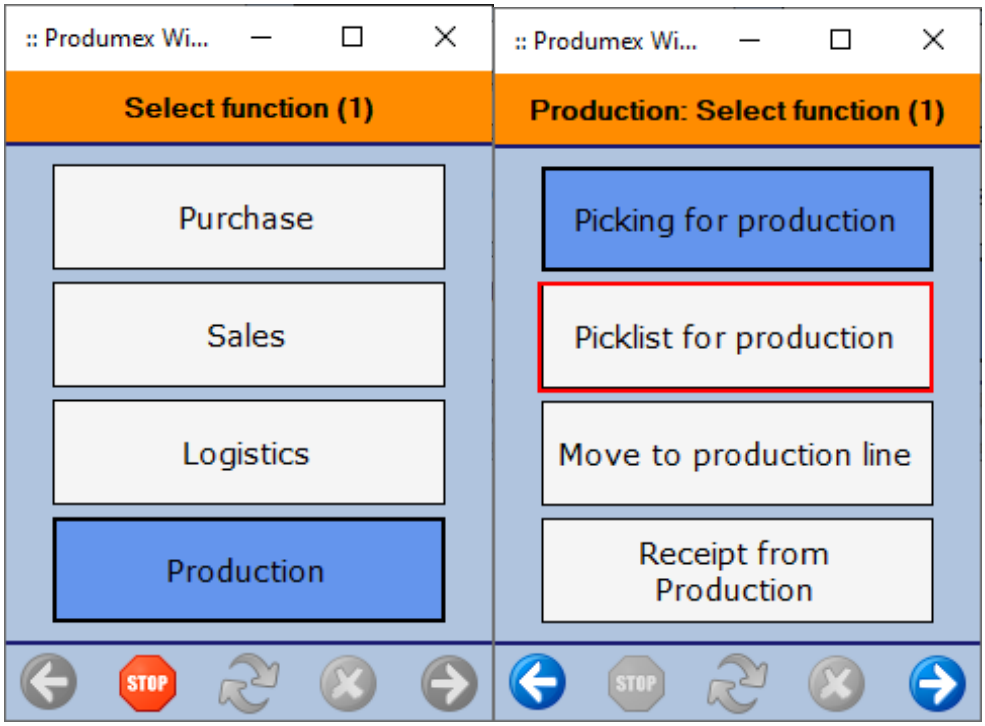
Workflow

1. **Produmex WMS:** Create a Beas type production line in Produmex WMS.
2. **Beas:** Create a work order in Beas and link the WO positions to the Beas production line in Produmex WMS.

© 2026 Boyum IT Solutions A/S



3. **Beas**: Send the proposal picking list to Produmex WMS from a WO/BoM position or multiple positions.
   See Picklist for production window description and Picklist for production - Partial picking Beas > WMS video demonstration.
4. **Produmex WMS:** Start picking for production using the WMS mobile client.



5. When the items are picked to the location, Produmex WMS communicates this to Beas and the items are reserved in the Beas reservation system. Then they can be consumed for production.

© 2026 Boyum IT Solutions A/S

3.6.2.2 Picking for production workflow

Produmex WMS

In this workflow, the mobile client of Produmex WMS is used to go through the picking for a work order position in Beas.

Prerequisites

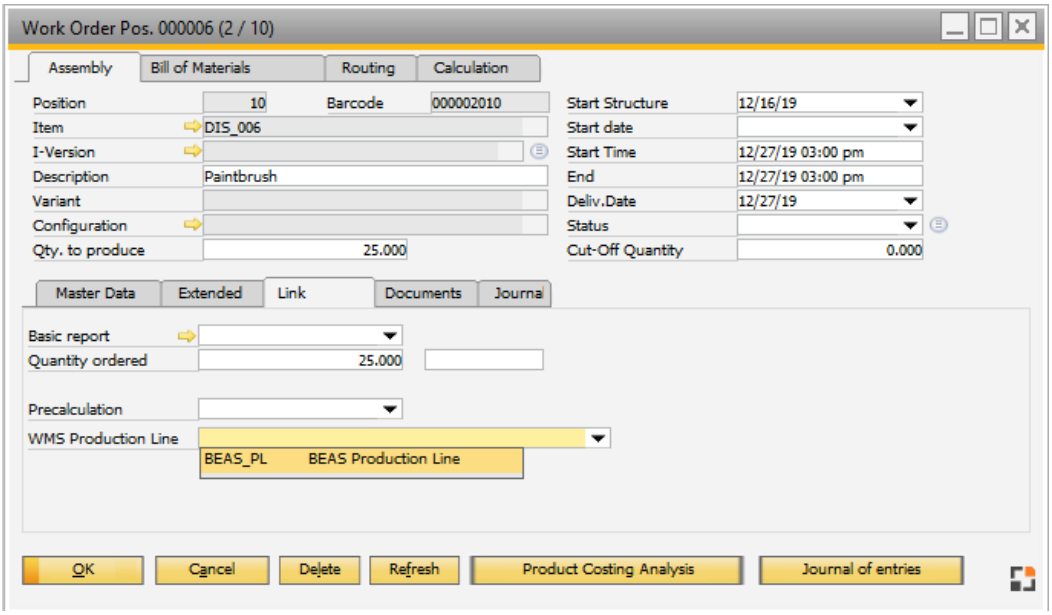
- On Produmex WMS, the PMX SBO Notification Listener process must be installed and running.
- On Beas, the Common Interface must be running.

Limitation:

WMS picking process does not support Beas I-Version control.

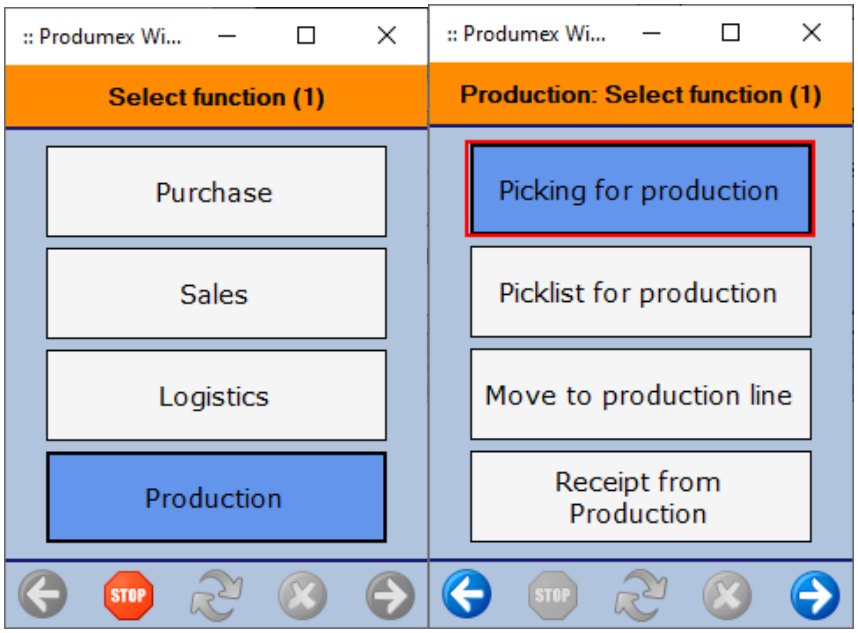
Workflow

1. **Beas:** Create a work order.
2. **Beas:** Link a Produmex WMS production line to the WO positions.



3. **Produmex WMS:** Use the Produmex WMS mobile client Picking for production option to view all the Beas production lines.

© 2026 Boyum IT Solutions A/S



4. **Produmex WMS:** Select the line and start the picking as usual.

3.6.3 beas usability extension

PATH: Administration > Add-Ons > B1 Usability Package > B1 Usability Config.

With the Beas usability extension you can easily change the behavior and structure of windows.

For example Beas enables you to:

- Define buttons and right-click menu entries,
- Add new fields and objects or change them,
- Set input fields to "input mandatory",
- Hide fields etc.

The Beas Usability Package requires:
- B1UP License (separate tool),
- Access rights to B1UP functionality (SAP user rights settings),
- Activation of Beas usability extension,
- Beas 9.3 or later

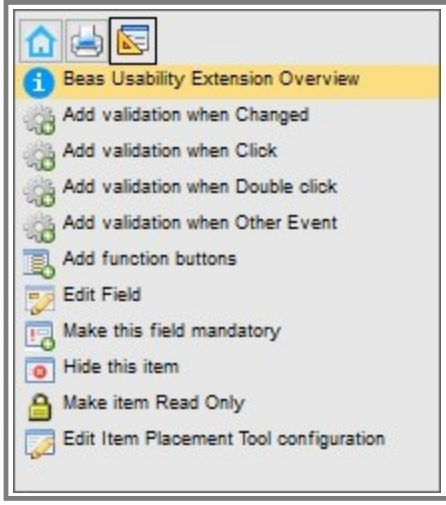
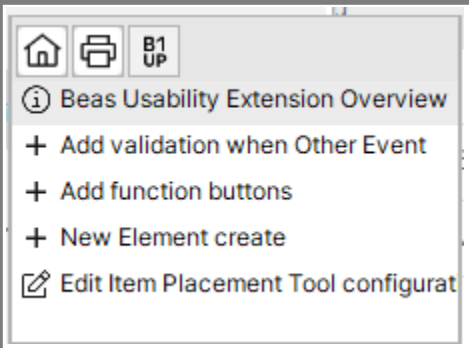
see Beas usability extension

The Beas Usability Package functions are available via:

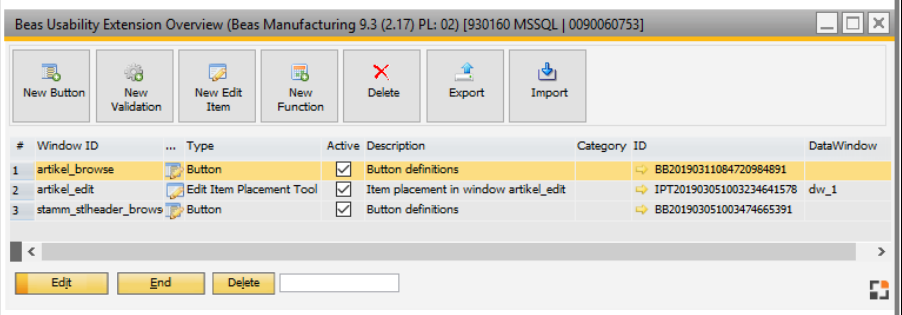
© 2026 Boyum IT Solutions A/S

PATH: Administration > Add-Ons > B1 Usability Package > Module Configuration > Beas Usability Extension Overview

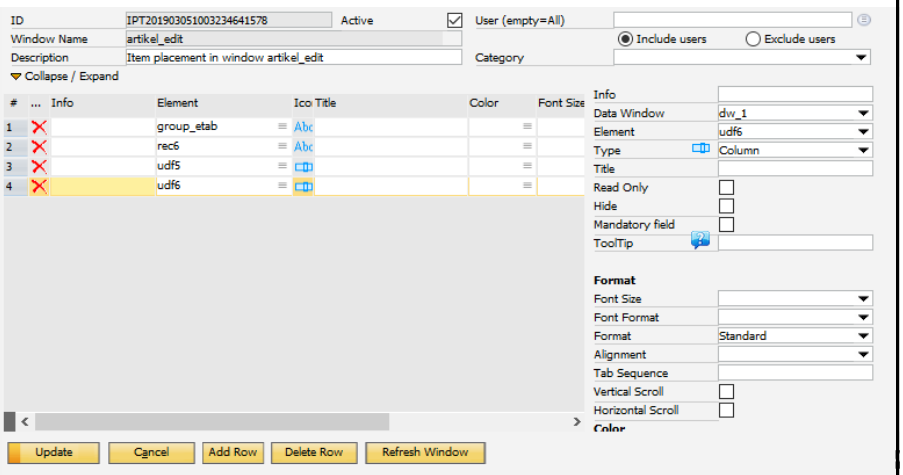
- **Right-click inside of a window > Click on the icon** / B1 UP

Traditional style	Boyum Style
	

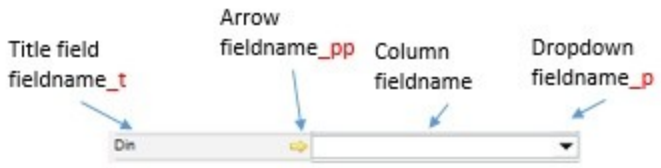
Functionality Overview

Field	Description
Beas Usability Extension Overview	Opens the setup window of all extensions for the current window. The overview shows all function buttons, validation definitions, and configuration options that have been created by this window. Furthermore, the setup window enables the user to add more definitions. If user-specific settings are being used, the edit windows must be opened through the administration window.  *Window sys_trigger_browse.psr* ***See*** Beas Usability Extension Overview.

© 2026 Boyum IT Solutions A/S

Field	Description
Validation Configuration	The New Validation button allows you to create a new functionality to determine when and what kind of functionality should be executed to validate your data. You can add validation of data as per events and conditions which you can pre-configure in this window. ***See*** Validation Configuration.
Edit function buttons	Adds function buttons above, to the right, below or as a right-click entry.
Adjust Elements	Edits properties of the current field directly. This function directly opens the Item Placement Tool and adds the current field to the list of altered fields. If the field is already present in the list the Item Placement Tool will jump right to it.  *Window sys_itemplacement_edit.psr* Item Placement Tool
Make this field mandatory	Defines the current field as mandatory field. The Item Placement Tool opens and the selected field is added. The property "mandatory field" is set automatically. Go to Item Placement Tool – Mandatory Field. This function is only available for input fields (Columns). Mandatory fields are displayed with a red background if they are empty. Saving or adding is not possible until all mandatory fields are filled.

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: It is not possible to validate the formatting of numbers and dates.
Hide this item	Makes a field invisible The Item Placement Tool opens and the selected field is added. The property "Hide" is set automatically. ***See*** Item Placement Tool - hide To make the field visible again, simply remove the corresponding field definition in the Item Placement Tool or deactivate the property "hide" Special feature for input fields: When an input field is hidden all associated fields are hidden as well. 
Make item read only	Activates the write protection for this field The Item Placement Tool opens and the corresponding field is added. The property "read only" is automatically set. ***Go to*** Item Placement Tool - read only Read only items are not changeable and grayed out.
Item Placement Tool setup	Opens the Item Placement Tool where you can make changes to the window The Item Placement Tool can be opened directly. For example in order to change or delete existing configurations or add new ones. Tip: If user-specific settings are necessary, the Item Placement Tool must be opened via the Setup Overview.

© 2026 Boyum IT Solutions A/S

3.6.3.1 beas Usability Extension Overview

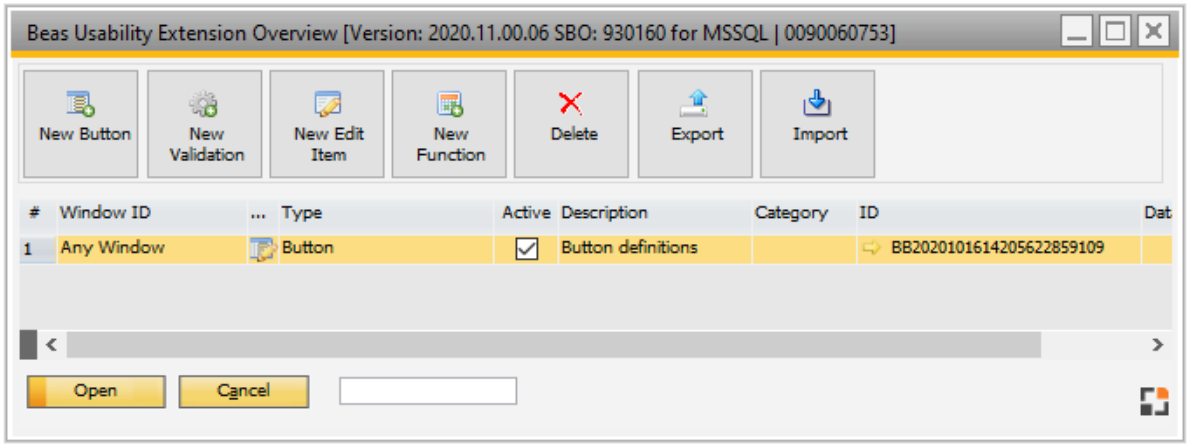
Authorization: Universal functions (BOY_B1UP_UF).
Window Settings are supported.

This window can be opened via:

1. Right-click > Beas Usability Package Icon / B1 UP > Beas Configuration Overview

2. Administration > Add-Ons > B1 Usability Package > Module Configuration > Beas Usability Extension: "Beas Customizing Administration" window.

If the window is opened by right-clicking, only the settings associated with the current window are displayed.
If the window is opened via the Add-Ons menu, all settings are displayed. The corresponding entry can be opened by double-clicking on the line.



Window sys_trigger_browse.psr

Boyum Style button design:

Field descriptions

Field	Description
New Button	Creates a new Function Button – Definition.
New Validation	Creates a new Validation Configuration.
New Edit Item	Creates a new Item Placement Tool definition.

© 2026 Boyum IT Solutions A/S

Field	Description
New Function	Creates a new Beas Universal function.
Delete	Deletes the specified definition.
Export	Export marked line in clipboard. You can import the clipboard to another database or can copy the information in an email.
Import	Import from current clipboard. Overwrite all existing entries with same ID.

3.6.3.2 Validation Configuration

By using the Validation Configuration, an action can be triggered based on a condition.

- Introduction

The Validation Configuration can be opened in the following ways:

- Right-click, Usability Package Icon **/** **> "Setup Overview" > "New Validation".**

Administration > Add-Ons > B1 Usability Package > Module Configuration > Beas customizing Administration.

A validation configuration is always window-related. Therefore, the corresponding window must be open.

Options for Validation Configuration:

- Actions while loading, saving, adding, or deleting data, e.g. checking whether an entry is correct.
- Actions while editing a field e.g. checking content.
- Actions by mouse-clicks (Left, right, and double-click with Shift, Ctrl, or a combination of both).
- Actions by key stroke, also in combination with Shift, Ctrl, or both.

Furthermore, non-window related processes are customizable.

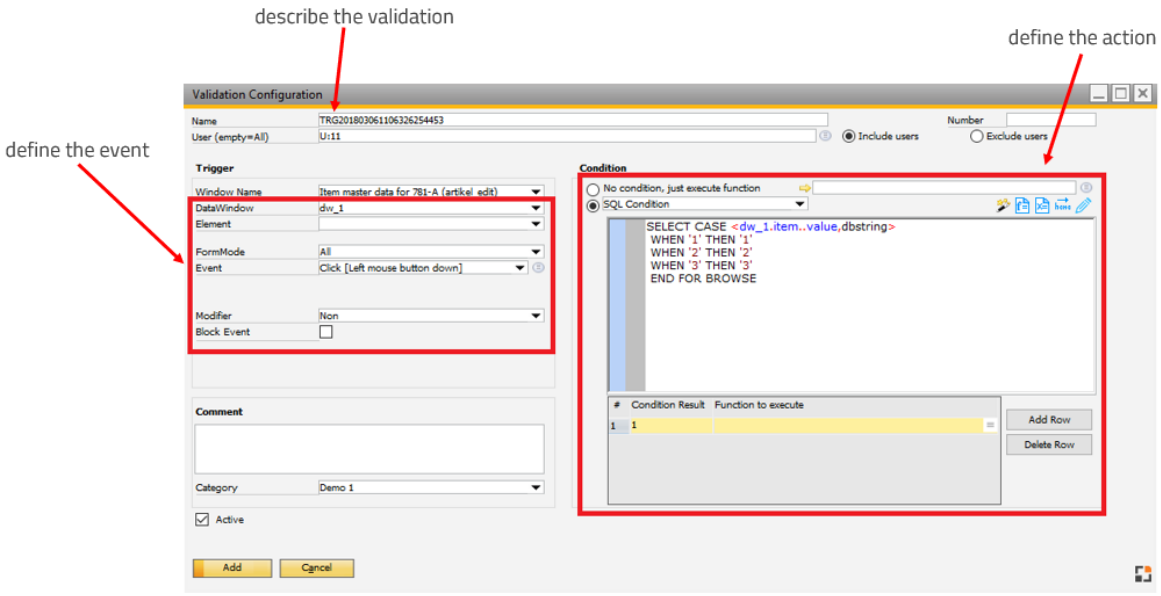
- Customization of processes e.g. creating work orders or time receipts in work orders.
- Determination of accounts, cost types for WIP (Work In Progress) bookings etc.

Window Structure

A validation consists of 3 areas:

© 2026 Boyum IT Solutions A/S

1. Description of the validation (describe the validation),
2. Description of the event to be monitored (define the event),
3. Description of the activity that has to be executed (define the action).



Window sys_trigger_edit.psr

How Is A Validation Created?

1. Create a new validation by right-clicking, then click on the Usability Package Icon / B1 UP via "Setup Overview" and then "New Validation".
2. Select the window that is related to this validation.
3. Enter a name that describes the valuation configuration.
4. Select the event.
5. Select the the remaining fields according to event type.
6. Define the action that has to be executed.

For more information ***see***: Form, Datawindow, Items.

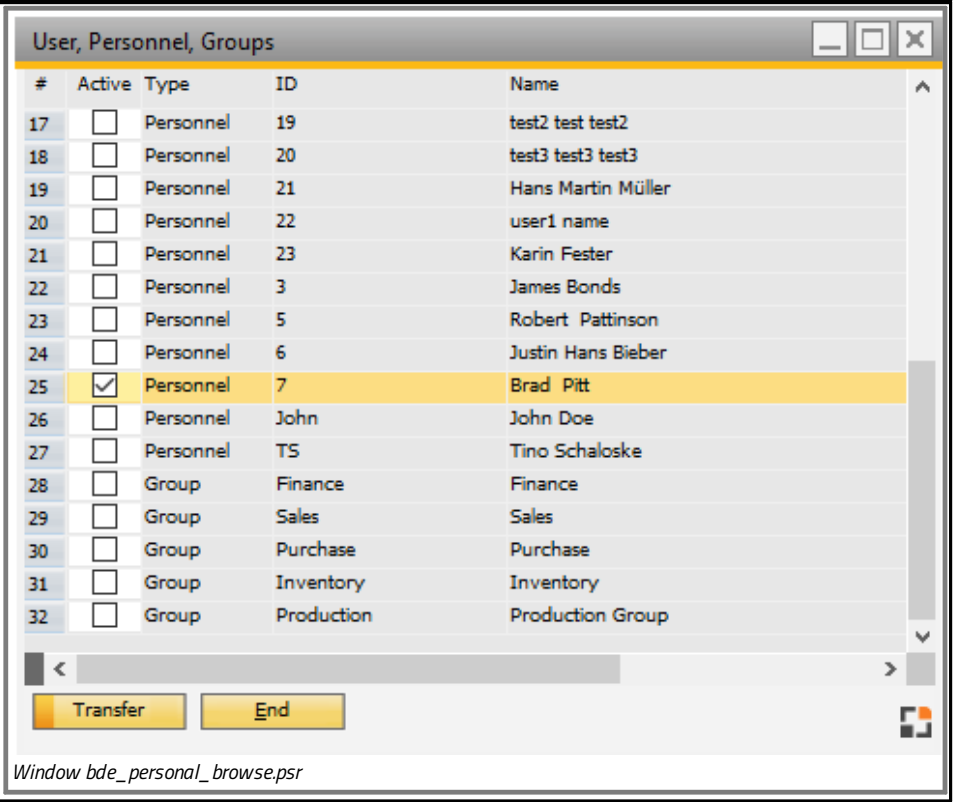
Validation Definition

Field	Description
ID	Unique ID for for the validation – Definition. If an ID is not set manually, the system assigns one automatically.
Window ID	ID of the window for which the defined validation should apply.

© 2026 Boyum IT Solutions A/S

Field	Description
	Tip: The window specified here must be open in order to change its properties. ***See*** Form, Datawindow, Items.
Description	Text field where the validation can be described in further detail.
User (empty=All)	Defines to which users the definitions specified here will apply. You can indicate the validity of the definition / users in the Item Placement Tool, function buttons, and validation configuration. **The following rule applies:** Field is empty: There is no check Incl. User: The definition is only valid for the specified users Excl. User: The definition applies to all users except for the users specified here **A user can be:** - SAP User - SAP user group - Personnel (**Menu: Human Resources > Personnel**) In the selection window the corresponding user can be defined and taken over by the ("transfer button")

© 2026 Boyum IT Solutions A/S

Field	Description
	 *Window bde_personal_browse.psr*
Category	Defines the related category.

Trigger

Field	During event	Description
DataWindow	Item Event, DW Event	Determines which DataWindow should be checked. dw_1, can be dw_2.... dw_7, dw_master For buttons, right-click popup menu or toolbar: always "dw_master"
Element	Item Event	Determines which element should be checked. ***See*** event "click" and basic introduction Form, Datawindow, Items. **Buttons, right-click popup menu, tool bar** For Buttons use the object name of the Button. You can see the object name in the Debug window. Insert in DataWindow always "dw_master" and in Element the object name of the Button / Function, example "edit:" for open entry

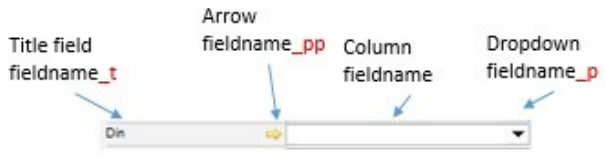
© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>During event</th><th>Description</th></tr>
<tr><td>Window Mode</td><td>Item Event, DW Event, Key Down</td><td>Determines in which window modes this event should be checked: ADD, OK, UPDATE, or valid for more than one window mode e.g. ADD/OK/UPDATE. Standard setting is "All".</td></tr>
<tr><td>Event</td><td>All</td><td>Determines which event type will be checked.

Item Events
<table>
<tr><th>Event</th><th>Description</th></tr>
<tr><td>Click [left mouse click down]</td><td>Clicking on an item

Choose the Data Window and the item that has to be clicked on in order to trigger the validation.

If an element, which is not an input field, is checked, the input field can be selected and the corresponding extension for the corresponding field e.g. for the corresponding text field or _p for the Dropdown Icon or _pp for the golden arrow.

For more information see: Form, Datawindow, Items.</td></tr>
<tr><td>right-click (right mouse click down)</td><td>Right-click on an item.</td></tr>
<tr><td>Double Click</td><td>Double-click on an item.</td></tr>
<tr><td>Item changed</td><td>The field content of an item was changed.</td></tr>
<tr><td>Got Focus</td><td>Item gets in focus .</td></tr>
<tr><td>Key Down</td><td>When a key or a combination of keys was pressed.</td></tr>
</table>
DW Events</td></tr>
</table>

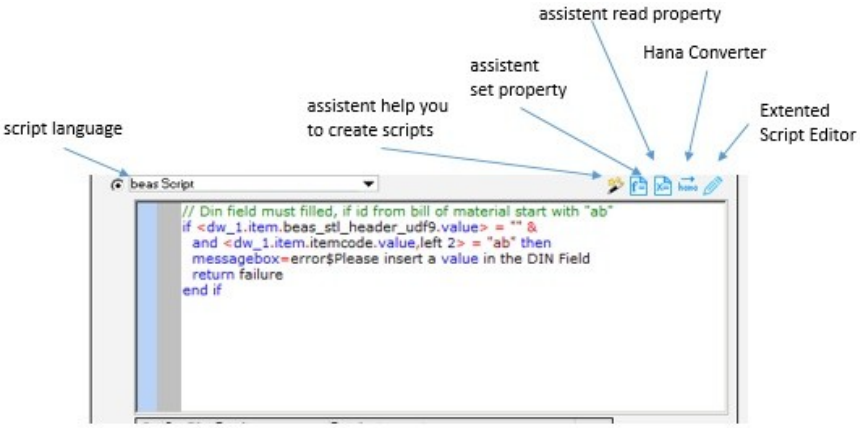
© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>During event</th><th>Description</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Event</th><th>Description</th></tr>
<tr><td>DW Load</td><td>Data window has been loaded.</td></tr>
<tr><td>DW Insert</td><td>A line has been added in the Data window.</td></tr>
<tr><td>DW Deleted</td><td>A line has been deleted in the Data window.</td></tr>
<tr><td>DW Row Changed</td><td>There has been a row change in the Data window.</td></tr>
</table>
Form Events
<table>
<tr><th>Event</th><th>Description</th></tr>
<tr><td>Form Load</td><td>The form is being loaded.</td></tr>
<tr><td>Form Closing</td><td>The form is being closed.</td></tr>
<tr><td>Form Add</td><td>The "Add" – process is running in the form.</td></tr>
<tr><td>Form Update</td><td>The "Update" – process is running in the form.</td></tr>
<tr><td>Form Delete</td><td>The "Delete" – process is running in the form.</td></tr>
</table>
</td></tr>
<tr><td>Key</td><td>Key Down</td><td>Determines at which keystroke the condition should be executed
Only visible during the event "KeyDown".
The key can be selected here. The additional key should also be selected.</td></tr>
<tr><td>Modifier</td><td>Key Down, Item Event, DW Event</td><td>Determines which additional key must be pressed in order to carry out the action, e.g. just a combination with Shift or Ctrl, or a combination of both.</td></tr>
<tr><td>Block Event</td><td>All</td><td>When active, all subsequent systems are blocked. This has different effects depending on the event.</td></tr>
</table>

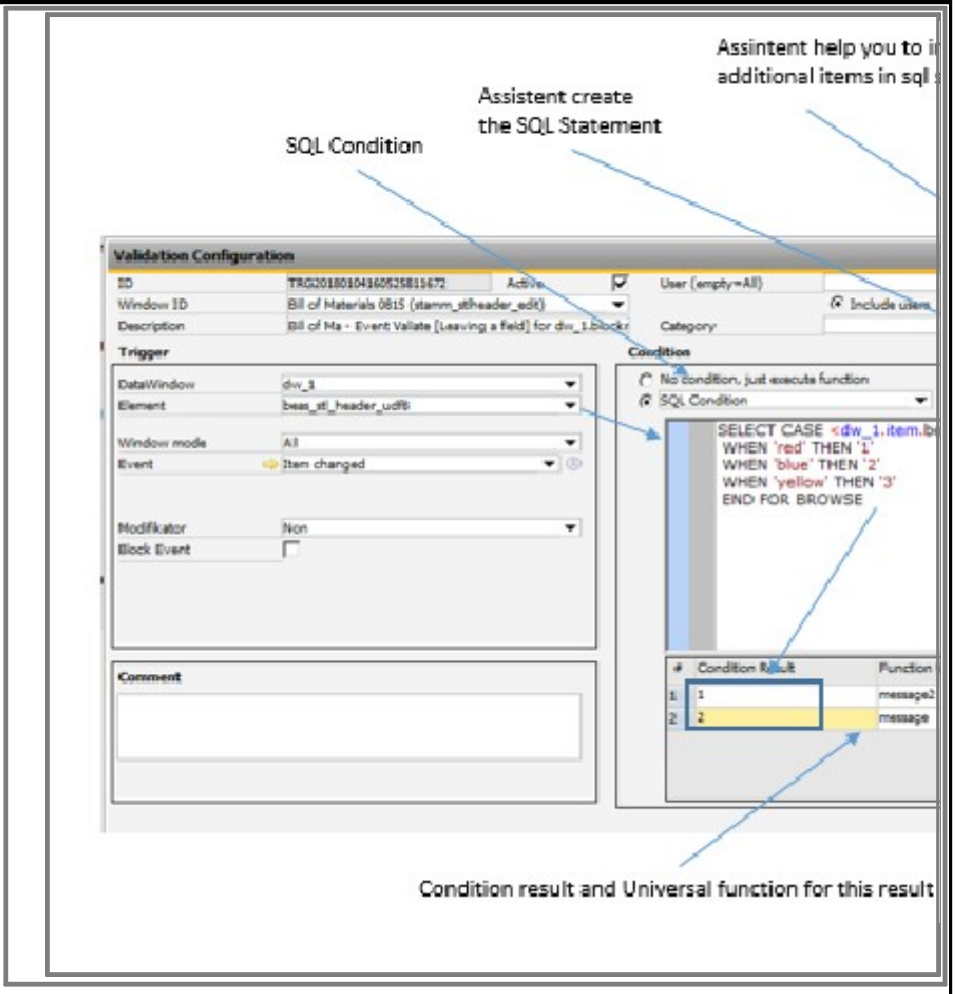
Condition

Field	Description
No condition, just execute	With this setting the Universal Function that should be executed can be directly selected. Both a Beas function and a B1UP Universal Function can be selected.

© 2026 Boyum IT Solutions A/S

Field	Description
function	
Script	A script can be run directly. BeasScript The Beas script defined here will be run directly.  This is the easiest way to respond to events: BeasScript. As soon as the event occurs, the code stored there is executed directly. Various wizards facilitate the creation of the script. Return: If the script ends with "`return failure`", then the subsequent processes in the event is not executed and the entire event is aborted (e.g. Delete, Update, Close) SQL Script Principle: by returning an SQL statement, it is determined which universal function should be called. 1. First the universal function has to be defined. 2. An SQL statement is defined, which returns a value depending on the condition. Using the "Magic Wand" function makes the SQL statement easy to create. 3. The table below defines which universal function should be executed.

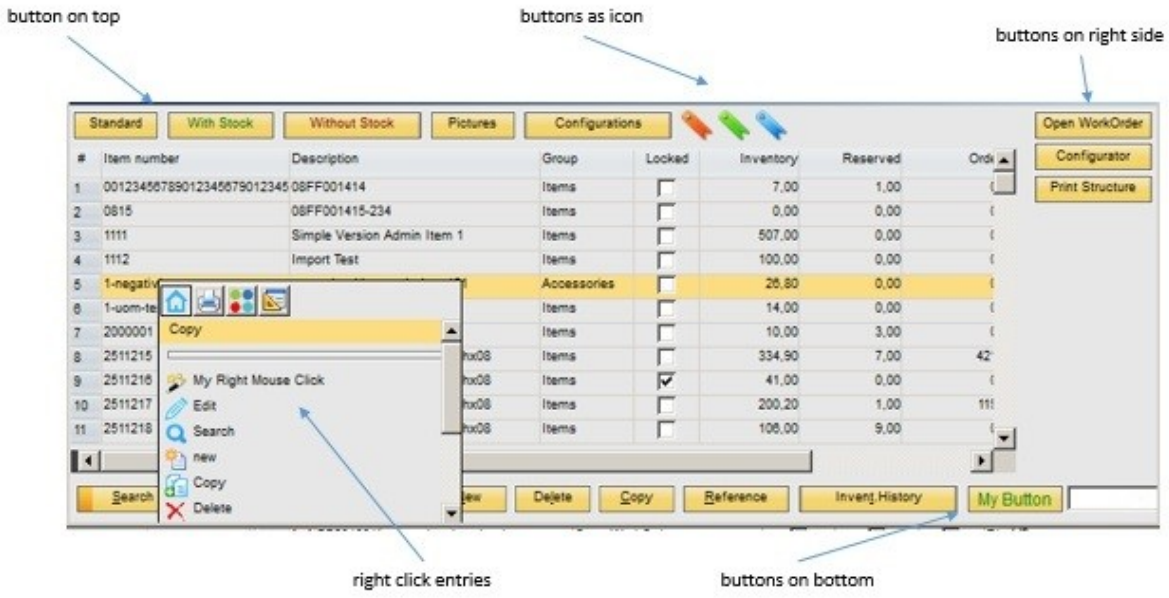
© 2026 Boyum IT Solutions A/S

Field	Description
	

3.6.3.3 Function Buttons

Buttons, icons, and right-click entries can be defined in various layouts in the following way:

© 2026 Boyum IT Solutions A/S



Introduction

Buttons can be created on top, on the right side, on bottom or via right-click. Furthermore, a function can be linked to the button.

- Select template
- Execute print macro (e.g. label printing)
- Execute Beas or B1UP Universal function (e.g. lists, reports, or dashboards)
- Execute direct scripts (e.g. open window)

The function Button Definition can be accessed via:

PATH: Administration > Add-Ons > B1 Usability Package > Module Configuration > Beas Usability Extension: Beas Customizing Administration window > Edit function buttons,

- Right-click > Beas Usability Package Setup Overview > New Button. An existing entry can be edited hereafter,

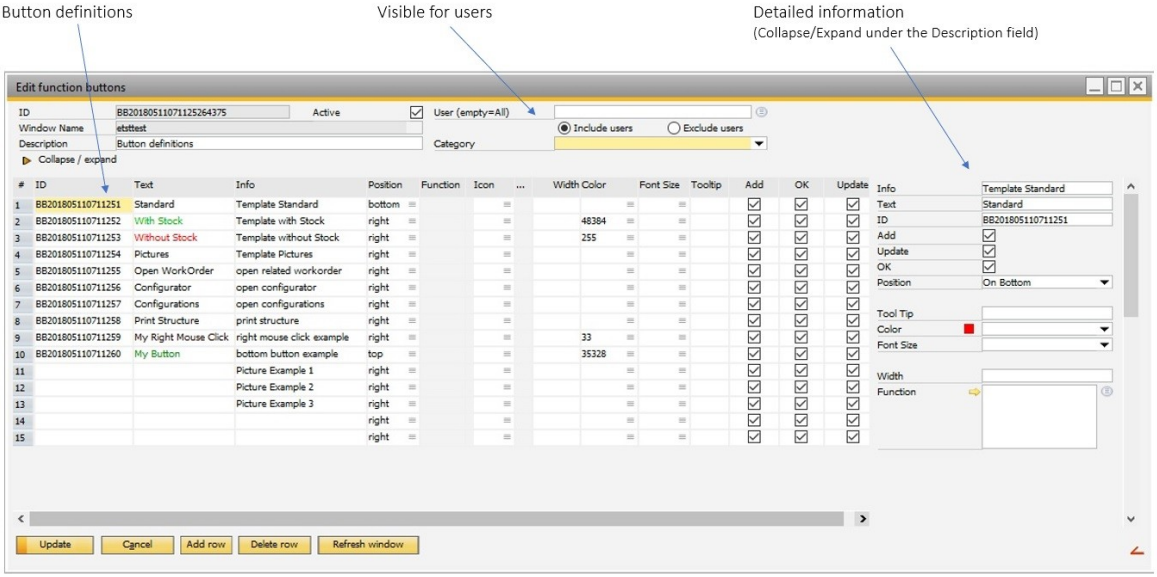
- Right-click > Beas Usability Package Icon * / B1 UP > Beas Usability Extension Overview,

- Right-click > Beas Usability Package Icon * / B1 UP > Add function buttons,

IMPORTANT: If there are buttons already created, instead of "Add Function Buttons", the right-click menu reads as "Edit Function Buttons".

*In **Boyum Style** this icon is: B1 UP

© 2026 Boyum IT Solutions A/S



Window sys_button_edit.psr

Add Button

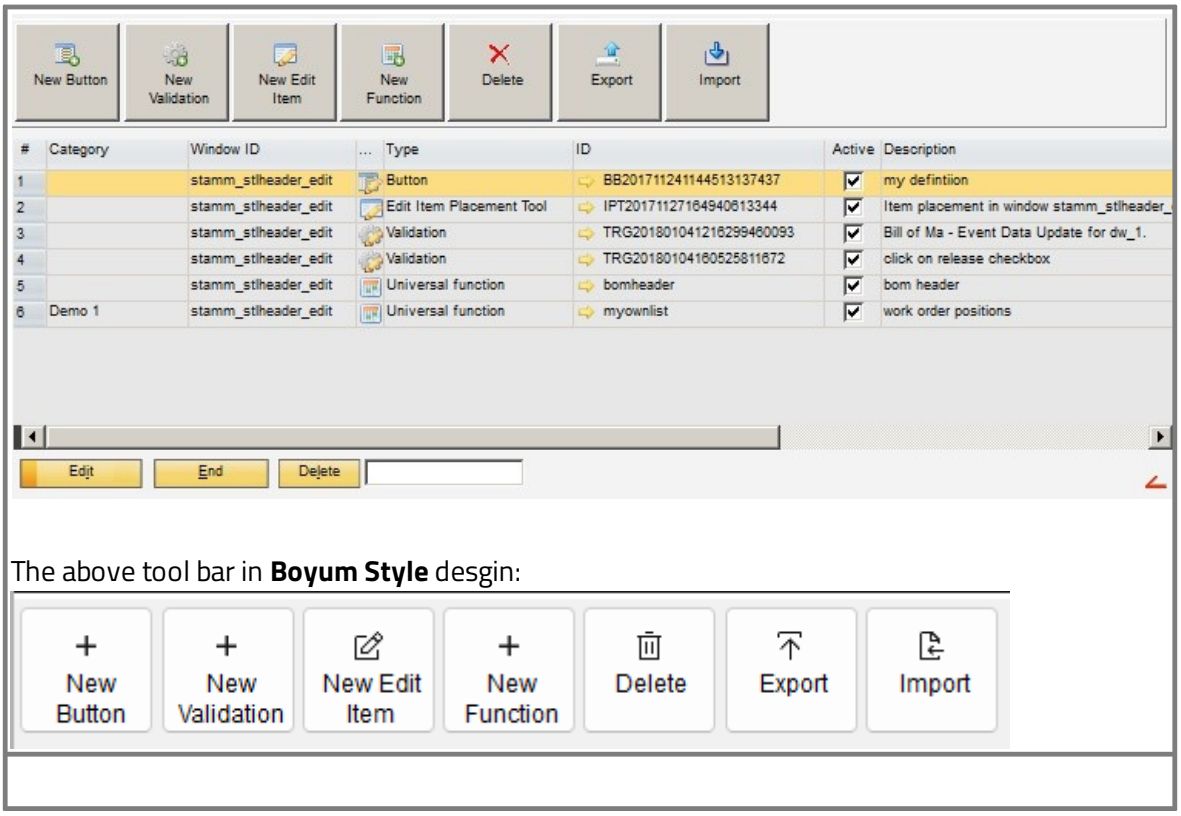
1. Add function buttons – right-click to open window.
2. Button "**Add row**".
3. Fill in the field "Text" for the button.
4. Select position (top, bottom, right, or right-click).
5. Define functions and associated parameters.
6. Add row.
7. Close the original window and reopen it.

User Specific Definition

Several button definitions can be made, e.g. user-specific. ***See***: User.

In this way, all active button definitions corresponding to the user rule are considered always. If more than one definition exists, they must be opened via **right-click > Beas Usability Package Icon > Setup Overview**. There is possibility for further definitions to be made or changed here.

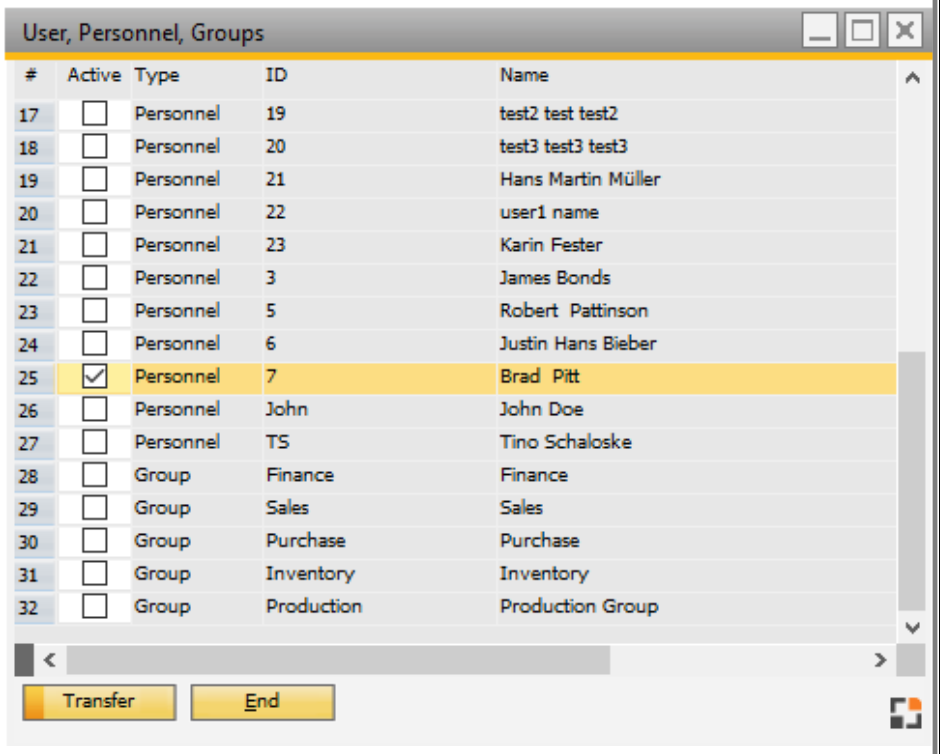
© 2026 Boyum IT Solutions A/S



Window sys_trigger_browse.psr

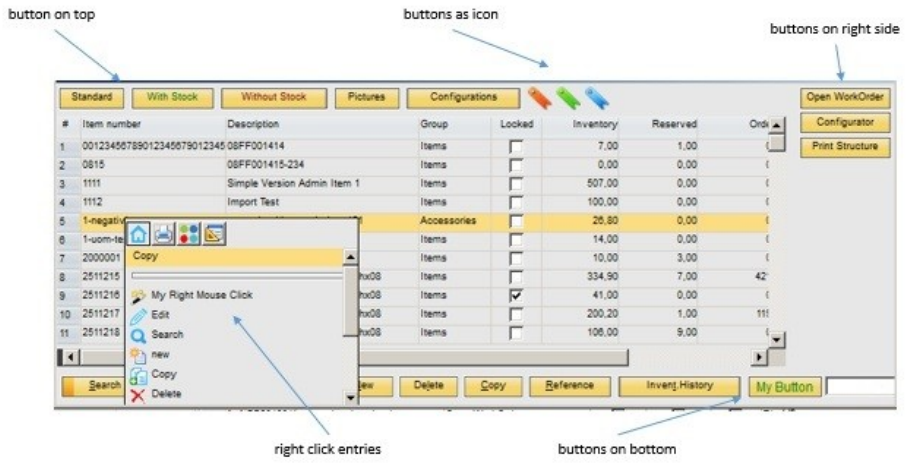
Field	Description
ID	Unique ID for the function buttons – Definition. If an ID is not set manually, the system assigns one automatically.
Window ID	ID of the window for which the defined validation should apply. Tip: The window specified here must be open in order to change its properties. ***See*** Form, Data window, Items.
Description	Text field where the validation can be described in further details.
Active	The function buttons definition is only considered when this box is checked.
User (empty=All)	Define the users to whom the hereby specified definitions apply. You can indicate the validity of the definition / users in the Item Placement Tool, function buttons, and validation configuration. **The following rule applies:**

© 2026 Boyum IT Solutions A/S

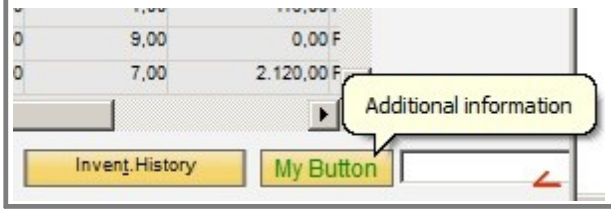
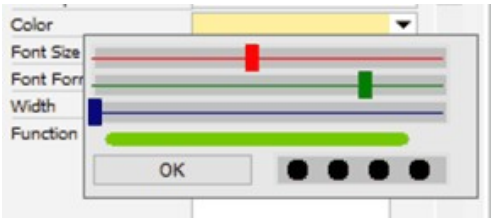
Field	Description
	Field is empty: There is no check Incl. User: The definition is only valid for the specified users Excl. User: The definition applies to all users except for the users specified here **A user can be:** - SAP User - SAP user group - Personnel (**Menu: Human Resources > Personnel**) In the selection window the corresponding user can be defined and taken over by the ("transfer button")  *Window bde_personal_browse.psr*
Category	Select a category for the function button from drop-down menu.

Fields to set in the right window section:

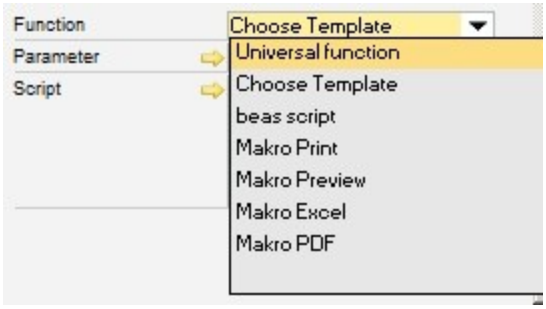
© 2026 Boyum IT Solutions A/S

Field	Description
Info	Optional information or remarks.
Text	Label of the button or text by right-clicking.
ID	Unique ID. If an ID is not set manually the system assigns one automatically.
Add/Update/OK	Check boxes to define whether the button should be visible in the selected mode. Note: The check only takes place while opening the window. If the mode is changed in the window (e.g. from OK to UPDATE or back), there is no reloading or new validation of the buttons.
Position	Defines the position of the button. The button position – top, right, bottom, or in the right-click menu – can be selected here. It is not possible to indicate precisely where the button should be positioned. The button is either placed to the right of or under the previous button. The width is calculated automatically based on the text content but can be manually adjusted by inserting another value in the field "Width". Right-click entries are always displayed at the top of the right-click menu. 
Icon	Buttons can be displayed either with both a text and an icon or with an icon only. For buttons in the position either above or to the right, the size is fixed and cannot be changed. The button is only displayed as an icon. The caption (text) is placed on top of the button and the width (number of characters) is therefore limited to the width of the icon.

© 2026 Boyum IT Solutions A/S

Field	Description
	Position below: Icon width is not limited by the dimensions of other bordering/adjoining icons. Right-click: Icon is displayed to the left of the text.
Tool Tip	Shows more information when the cursor is placed over the button Here a description or extended information can be added. This is displayed as a "speech bubble" (tooltip), when the cursor is placed over the button. Note: This is not possible for right-click entries. ***Example:*** Tooltip with text "Additional information" is displayed, when the cursor is placed over the button. 
Color	Defines the font color for the button (not possible for right-click entry). You can select and calibrate color tones with sliding bars: 
Font Size	Defines the font size for the button (not possible for right-click entry).
Font Format	Defines font format (not possible for right-click entry).
Width	Defines the width of the button. Position right: Buttons always have the same width by default. Position below or above: Button width is calculated automatically. Right-click: Width is constrained by the width of the right-click menu and cannot be changed.

© 2026 Boyum IT Solutions A/S

Field	Description
	The calculated width can be overwritten.
Function Parameter Script	This defines the function that should be executed when clicking this button.  **Available function:**

Universal function	It is possible to select a universal function. It can be either a Beas universal function or a B1UP universal function. If the selection icon is clicked in the parameter, the corresponding selection list will be opened. By clicking the golden arrow the universal function can be opened directly. Note: B1UP Universal functions only work within the SAP environment. If Beas is started outside of the SAP environment, e.g. in a terminal solution, then the B1UP - universal function cannot run. Universal functions are often window-related. Therefore, you should only select the universal functions which can be used in the considered window.
Choose template	Switches to the specified template: Templates can be defined in lists. Switching from one template to another is only possible either via the Beas icon or by right-clicking. The option to use buttons is the best option. Here you can select the template which should be used when clicking this button.
BeasScript	A BeasScript can be stored for e.g. opening windows, creating transactions, or procedures.

© 2026 Boyum IT Solutions A/S

Field	Description
	Macro Print Macro Preview Macro Excel Macro PDF: Macros can be defined for each window, e.g. print work order report, print label, or create list as PDF. If macros have been defined, this execution can be stored for a button. Here, printing, preview, excel, and PDF export are available. All other settings are made in the macro itself.

3.6.3.4 Item Placement Tool

PATH: Administration > Add-Ons > B1 Usability Package > Module configuration > Beas usability extension > **New Edit Item** button.

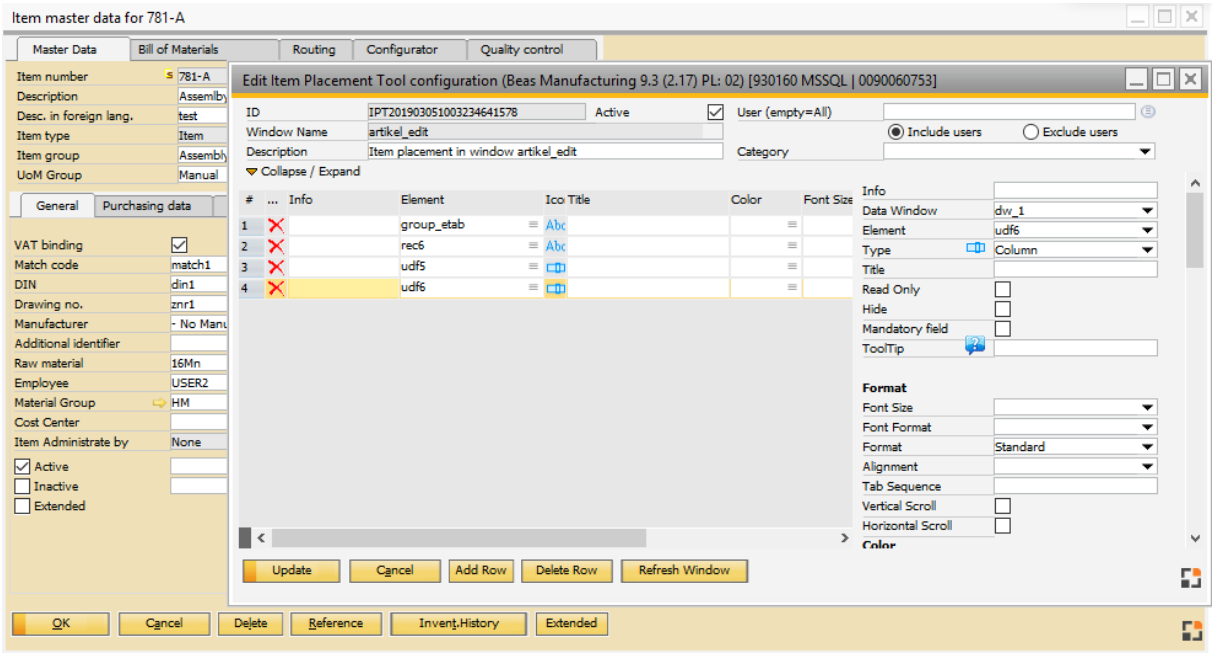
Configurations of window layout can be changed by using the Item Placement Tool

The Edit Item Placement Tool configuration window consists of three main sections:

Top section: Serves as a definition of the environment.

Bottom left section: Lists the changed fields of the given window.

Right window section: Editable properties of the fields listed on the left.



Window sys_itemreplacement_edit.psr

© 2026 Boyum IT Solutions A/S

See Overview

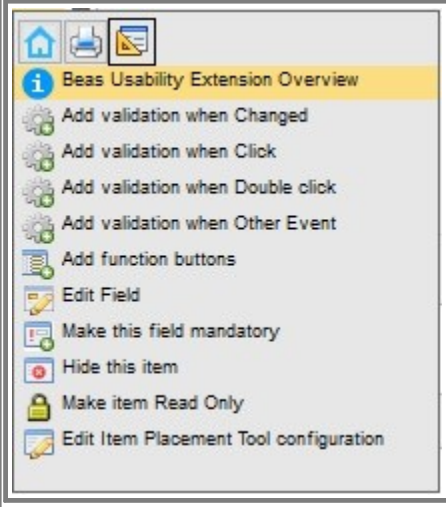
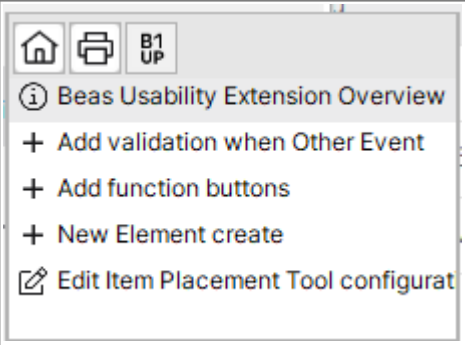
Introduction

The Item Placement Tool can be accessed in the following ways:

- Ctrl + double-click on a field which should be edited.

- Right-click, select the tab with the beas Usability Package Icon / "Setup Overview". This displays all available Item Placement Tool configurations.

Choose the Item Placement Tool configuration you would like to work on by double-clicking on the line, or by highlighting the line and clicking on the edit button.

Tradition style	Boyum Style
	

The window to be edited should not be closed while being edited in the Item Placement Tool.
The field to be edited is marked with a "frame" and is highlighted in the Item Placement Tool (line 4 in this example) and the details of this field are displayed to the right of it.

The window to be edited is displayed with a yellow background which indicates that it is in "edit mode" (***See*** image above)
If a setting is changed in the Item Placement Tool this is immediately visible in the original window. Automatic preview is not possible. To create the correct result, click "Refresh window". In the original window the default color is displayed and can be edited and checked normally.

© 2026 Boyum IT Solutions A/S

When clicking on the Item Placement Tool window, it automatically comes into focus and the original window automatically returns to "edit mode".

Moving / Resizing a field

Change the mode to "edit mode" (yellow background) in order to move a field.

You can only move or resize the element which has the actual focus (big border).

Moving an Object: If the element does not have the large border, hold Ctrl and double-click on this element.

If the top left corner from the border of the moved item inside the other item, the system places it on the bottom of the other item.

If only the bottom left corner of the border of the moved item is inside the other item, the system places it on top of the other item.

It is also possible to move a field with Key Left/Top/Right/Button.

User Defined Fields (UDF)

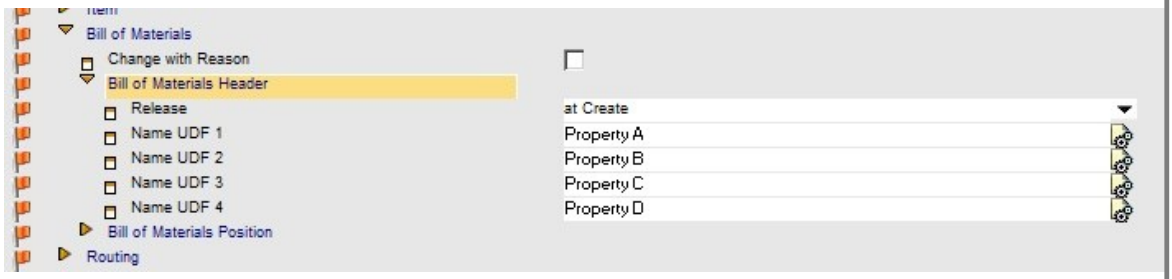
Unlike in SAP Business One it is not possible to define one's own UDF's in Beas. However, in most windows UDF1 to UDF4 of the type: "string" are available, furthermore also UDF5 to UDF15 e.g. in Bill of Materials, work plan, article version, and many others.

Special feature UDF1 .. UDF4

These are defined in the setup wizard and are immediately active and correctly positioned in all corresponding windows.

UDF1-4 are area-related and not window-related e.g. Routing Position: These are relevant for "Routing Catalog", "Routing" (List and edit window), Work order routing plan (List and edit window), as well as Precalculation. Formatting and definition of further properties is done directly via the setup wizard and also stored in the setup wizard. Definition of user dependencies is not possible.

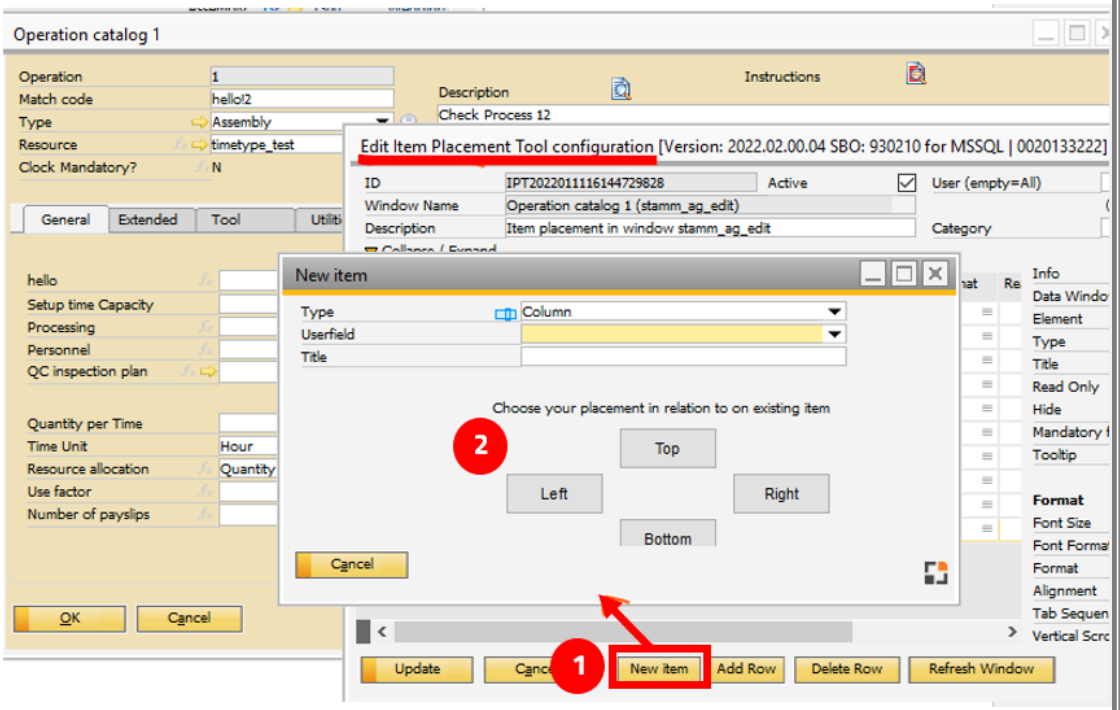
Example: **Configuration Wizard > Bill of Materials > Definition UDF1–4**



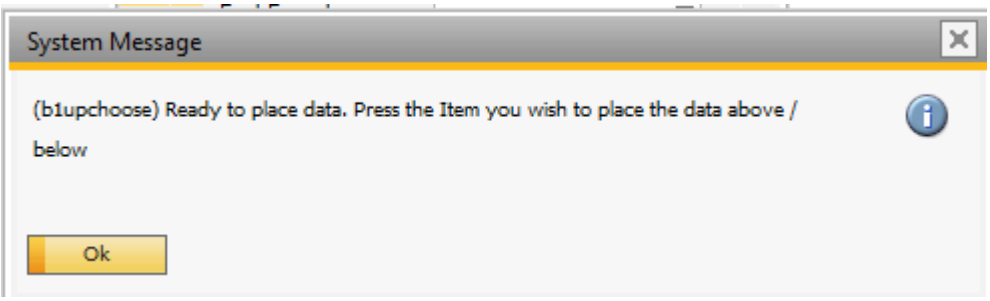
Create a New Item - Utilization UDF 5–15

© 2026 Boyum IT Solutions A/S

1. Click on the (1.) **New item** button.
2. Select the type: Column, text, Compute (= formula field), button, bitmap.
3. Insert all needed parameters (Userfield, Title or other related to the type) and click on one of the (2.) **Top/Right/Left/Bottom** Buttons to move it to the desired window section:



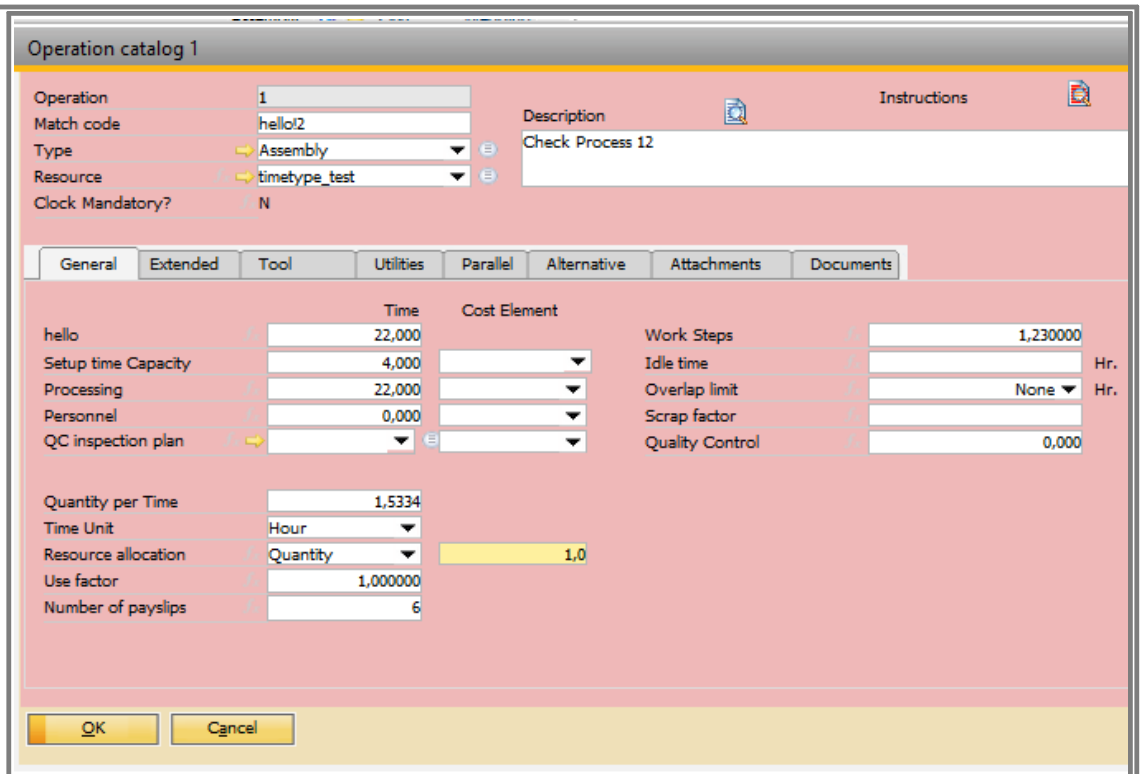
4. A pop-up message is displayed:



Click **Ok** and the window changes the color to "Click" mode:

The original window changes the color and is in “Click” Mode.

© 2026 Boyum IT Solutions A/S



Click on the element, on which you want to place your new element.
Do NOT click on label. Click on the element (the edit field) if you place a new column top/bottom of another column, then click on the edit field and NOT on the label of this field.
The system displays the new element directly and you can change additional properties of this new field.

Limitation:

This works only on simple forms. Sublists, windows with different subforms or ribbon bars are not changeable.

Change property inside the edit item placement tool window

You can only select the field which is currently visible in the view.
You can choose the item in the drop-down list or via Ctrl+double-Click in the related window.

NOTE:
If Edit item placement tool window is not opened and you make a Ctrl+double-click on an item, the system opens the tool window automatically and allows you to change this item.

Using template fields

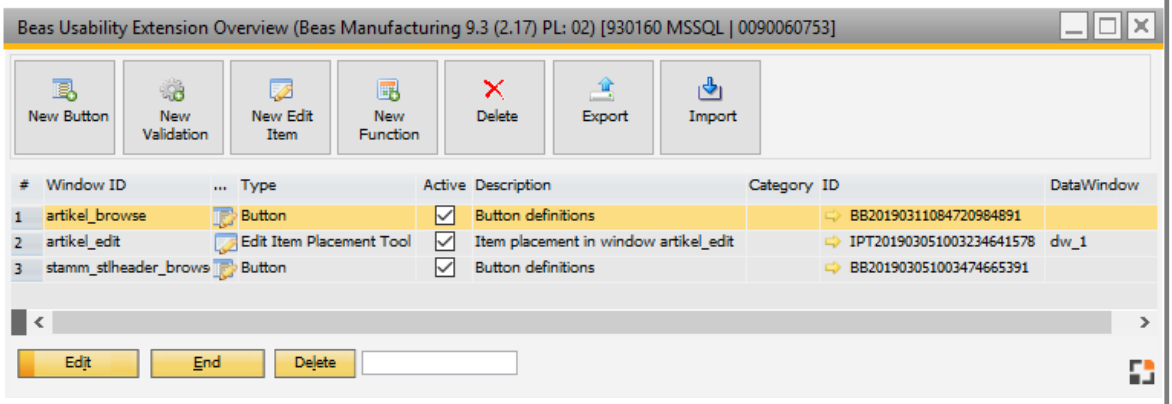
© 2026 Boyum IT Solutions A/S

In some windows Templatefield1 .... Templatefieldx are available. These sometimes have different lengths and types. These fields are not linked to the database and can be used for a wide variety of purposes.
They can be integrated in the same way as UDF fields.
However, loading and saving must be defined individually. This can be done via Validation Configuration – Event: select "Form Load" / "Form Add" / "Form Updated" from the drop-down.

User-Dependent Definition

There can be more than one configuration, e.g. user-dependent go to: User
All configurations that fall under the user rule and are active are always considered here.

If more than one definition exist, they must be opened via Right-click – beas Usability Package – Integration Icon / B1 UP – Setup Overview. Here more definitions can be made or existing ones can be changed.



Window sys_trigger_browse.psr

Boyum Style button design:

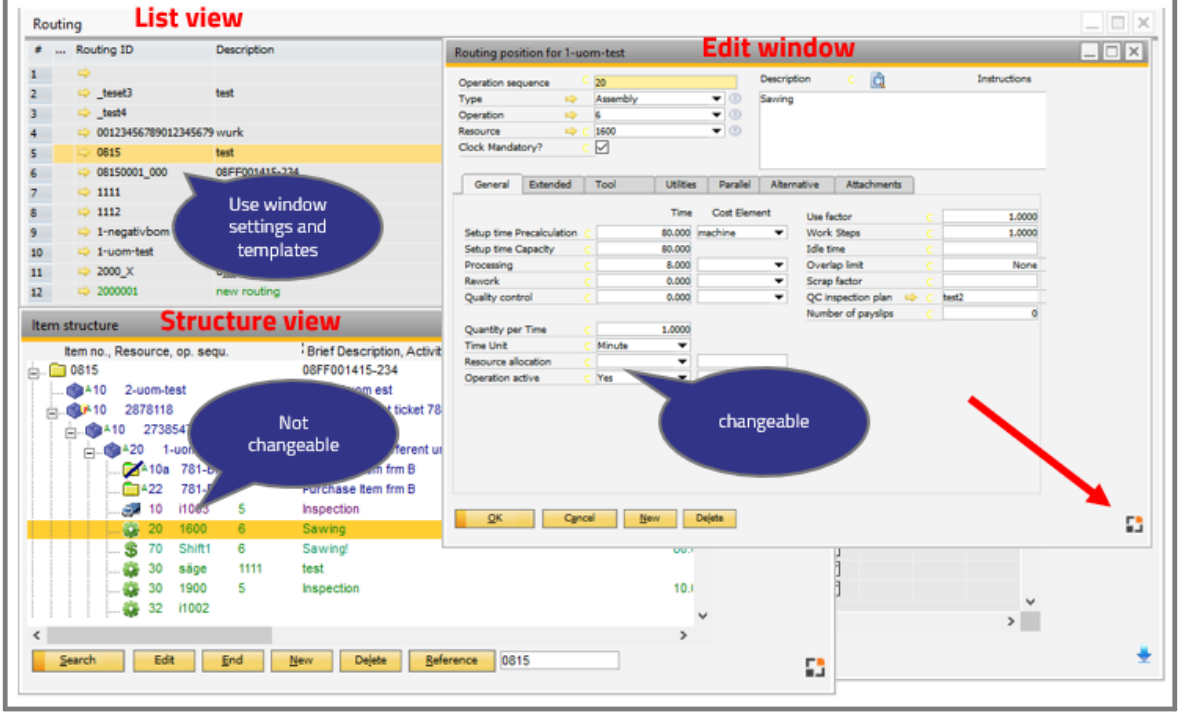
Note: If additional logic is behind the window, for example: "Bin location is only visible in case of bin managed warehouses", then this logic has higher priority than the definition set in the item placement tool.

© 2026 Boyum IT Solutions A/S

A configuration is linked to a window. You can define more than one configuration for a window. A definition can be e.g. user-dependent.

Limitations

- B1UP license is required.
- Only Beas windows can be changed. Beas windows can always be recognized by the Beas logo in the bottom right corner. In **Boyum Style (Beta)**, the logo is in the top left window header.
- The UDF fields 1–4 cannot be changed here.
- Windows of the type "List" or "Structure" cannot be customized .



Field descriptions of the Edit item Placement Tool

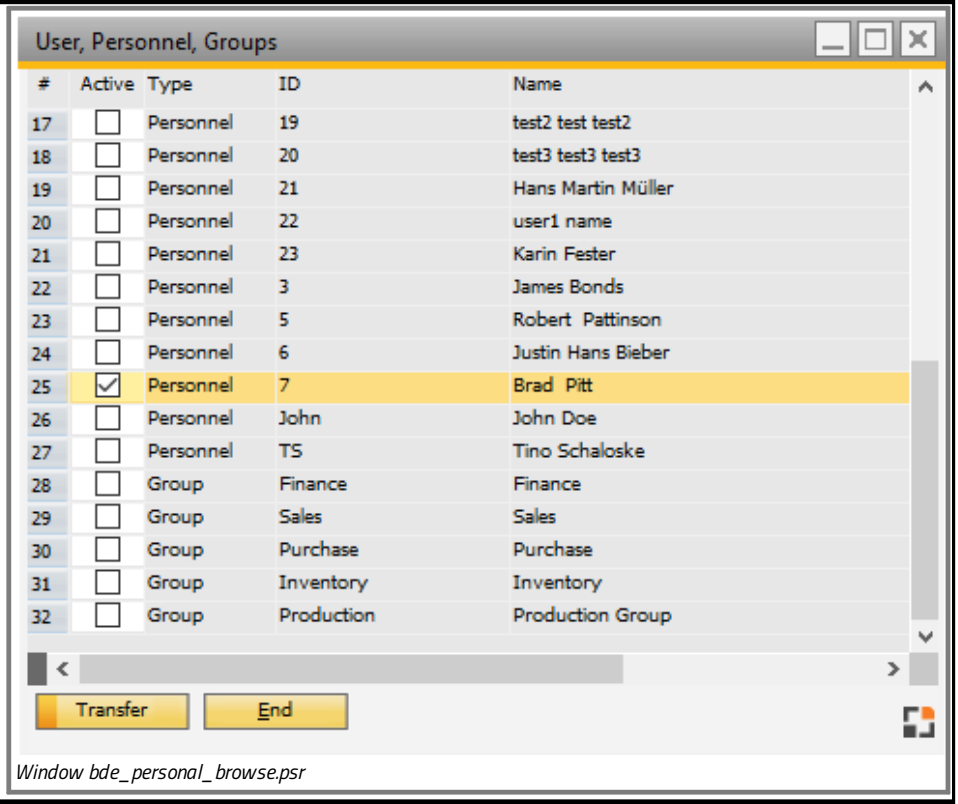
Header:

Field	Description
ID	Unique ID for the Configuration – Definition. If an ID is not set manually the system assigns one automatically.
Window ID	ID of the window for which the defined changes should apply. Tip: The window specified here must be open in order to change its properties.
Description	Text field where the configuration can be described in further detail.
Active	The configuration is only considered if the field is active.

© 2026 Boyum IT Solutions A/S

Field	Description
User (empty = All)	Define the users to whom the hereby specified definitions apply. You can indicate the validity of the definition / users in the Item Placement Tool, function buttons, and validation configuration. **The following rule applies:** Field is empty: There is no check Incl. User: The definition is only valid for the specified users Excl. User: The definition applies to all users except for the users specified here **A user can be:** - SAP User - SAP user group - Personnel (**Menu: Human Resources > Personnel**) In the selection window the corresponding user can be defined and taken over by the ("transfer button")

© 2026 Boyum IT Solutions A/S

Field	Description
	 *Window bde_personal_browse.psr*
Category	Defines the category. Configuration groups can also be defined here.

Field Description for further properties

Field	Available for	Description
Info	All	Optional information or remarks.
Data Window	All	Data Window where the field is located (dw_1 .. dw_7).
Element	All	Field ID If you want to create a new field (Bitmap/Text field, Computer field), you can define an own ID. It is not possible to create a new ID for an input field. You must choose an existing field. If the field is visible, you can change it, but you cannot insert a field 2 times.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Available for</th><th>Description</th></tr>
<tr><td></td><td></td><td>
You have access to all fields, which were defined in the formula – defined in "DataWindow"

Special fields:
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>udf1 ... udf4 (or [table_name]_udf1 .. [table_name].udf4)</td><td>You can define these fields in the Configuration Wizard
or with Ctrl + Double-Click on this field.

If you want to move this field or if you want to define additional information which you cannot define in the Configuration wizard, it is possible to make changes here.

UDF1..4 loaded and saved automatically in database.
All fields from type varchar(50).
If you need another data format, change this in "Format", but all data are saved as string.</td></tr>
<tr><td>udf5..udf15 (or [table_name]_udf5 .. [table_name].udf15)</td><td>In lots of windows there is access to UDF5 ... UDF15 and it is possible to insert this field with this item placement tool function in the window.

Use these fields if you need additional columns in your window.

UDF5..15 loaded and saved automatically in the database</td></tr>
</table>
</td></tr>
</table>

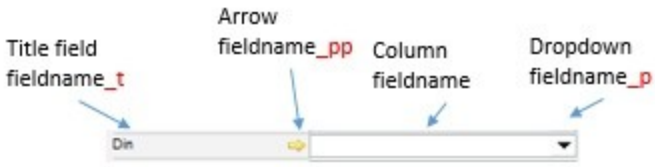
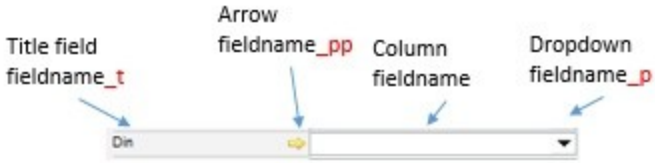
© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Available for</th><th>Description</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>All fields from type varchar(50)
If you need another data format, change this in "Format", but all data are saved as string.</td></tr>
<tr><td>userfield1 ... userfieldxx</td><td>In a lot of windows userfield1 ... userfieldxx are available
All fields from type varchar(50) or in some windows another length.
If you need another data format, change this in "Format", but all data are saved as string.

Beas does not load or save the value from the database. These fields are always empty if you open a window. You can define the source and the update function itself with a small script.</td></tr>
</table>
</td></tr>
<tr><td>Type</td><td>All</td><td>Field type: Text Field, Input Field (Column), Form Field (Compute), Picture (Bitmap), or Button.</td></tr>
<tr><td>Title</td><td>Column</td><td>Describe Title, Formulas, or Text from a field.

Column:
Field description, displayed to the left of the field. For this purpose, a second field is generated with the ID of the element "_t", e.g. "UDF" field gets a title field (Text field) "UDF_t".
This text field gets the text that has been entered here.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Available for	Description
		 **Text:** Text that should be displayed. **Compute:** The formula from which the result should be displayed. Data Window Style. **Button:** Button text.
Font Size	All	Defines the font size: very small – small – normal – large – very large.
Font Format	All	Defines font format: normal, bold, italic, bold and italic
Read Only	Column	When active, the input field cannot be edited.
Hide	All	Visibility of field When active, the field is no longer visible. If it is a field of the ty "Column", the associated text and bitmap fields are also made invisible. The following fields are affected by this: **Title**: fieldname + "_t" **Arrow**: fieldname + "_pp" **Dropdown Icon**: fieldname+"_ppp"  **Note:** The "Hide" process is only validated when the form is op

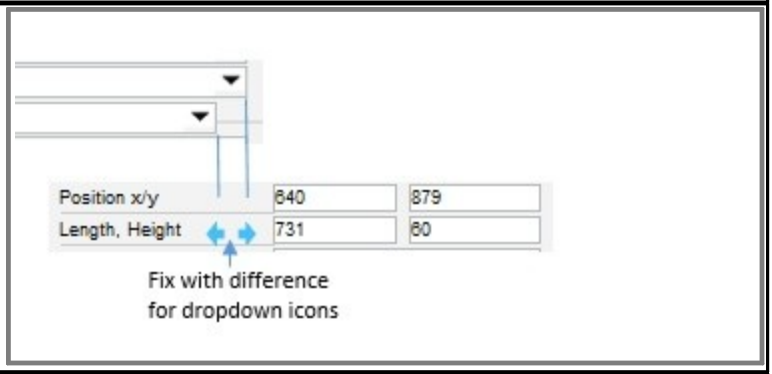
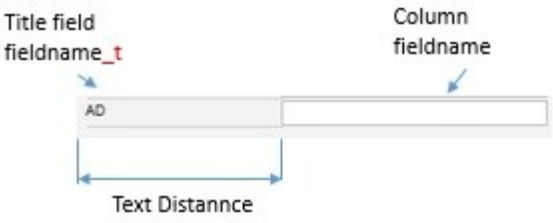
© 2026 Boyum IT Solutions A/S

Field	Available for	Description
Mandatory Field	Column	If active, an entry in this field is mandatory. Otherwise, any kind of change or addition is blocked.
Focus ALT +	Column	If a letter has been saved, the field can be accessed directly via: "ALT" + the given letter (Hotkey).
Tooltip	All	If a text is specified here, it is displayed as a tool tip in this field.
Bitmap	Bitmap	Icon to be displayed.
Format	Column, Compute	Determines in which format the content should be displayed. Note: For the type "Column" this has an effect on the content check which can be specified during the validation. In numeric format, the alignment is automatically set to the right.
Alignment	Column, Compute, Text, Button	Determines the alignment of the text or the content: Left, Right, or Centered.
TAB Sequence	Column	Determines the TAB order.
V Scrollbar	Column	Enables vertical scroll, automatically scrolls down to the next line if the end of the line is reached by the cursor.
H Scrollbar	Column	Enables horizontal scroll; if the cursor reaches the right side of the column, the text will automatically be shifted to the right and the additional letters can be added.
Color	All	Determines the color of the field.
Background	Text, Column, Compute	Determines the background of the field.
Error Color	Column	Determines the background of the field if the content contains errors.
Empty Color	Column	Determines the background of the field when the field is empty and when an input is mandatory.
Tab Object	All	Determines the name of the TAB Object .

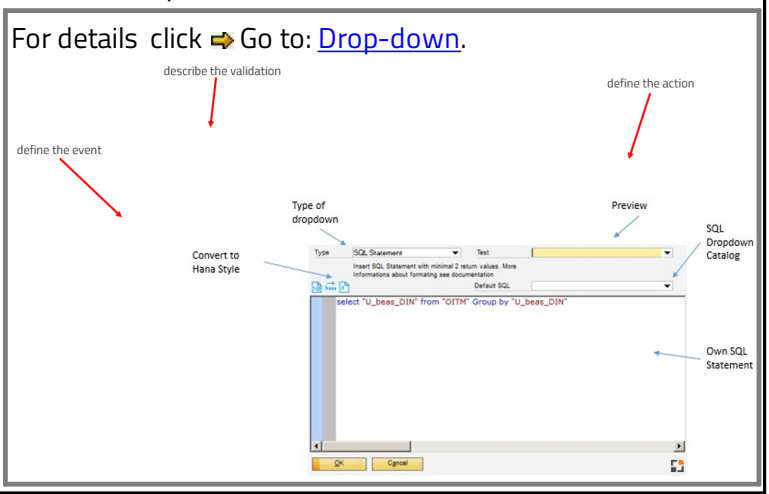
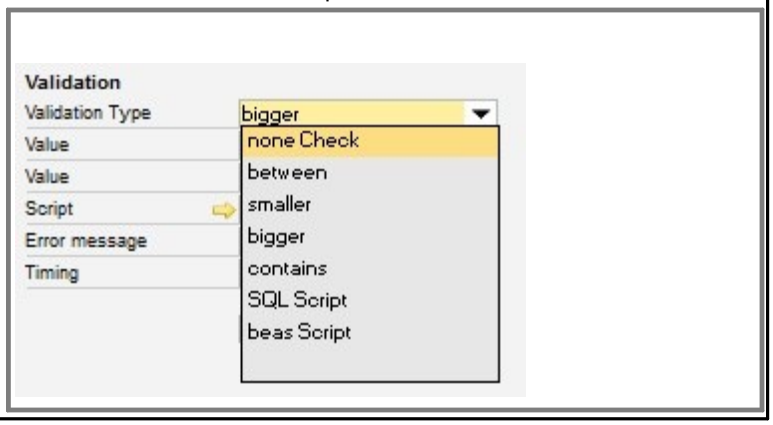
© 2026 Boyum IT Solutions A/S

Field	Available for	Description
		Here you can select the tab object in which the field should be located. If the field is moved to a tab area using drag & drop the field are filled automatically.
TAB tab	All	Determines the name of the TAB tab of the tab object selected in "Tab object". This can either be selected or set automatically if a field is inserted using drag & drop.
Position x/y	All	Determines the x and y position relative to the 0 point of the current data window. Define the X-/Y - Position from the field in PBUnit. 0 Point is the left/top position of the current formula (dw_1, dw_2..). or if the field inside a tab, then 0 position is left/top position from the tab object. PBUnit: Is a Formula unit. The size of one Unit is related to the current Zoom factor and default Font size.
Length, Height	All	Determines length and height of the field. Defines the length and height of the field in PBUnit. Default Height is always 60. PBUnit: Is a Formula unit. The size of one Unit is related to the current Zoom factor and default Font size. If a drop-down is inserted or the field is moved below another field with a drop-down, it may occur that the field length was not determined correctly. By using the arrows, the field length can be increased or decreased to match the length of the drop-down.

© 2026 Boyum IT Solutions A/S

Field	Available for	Description
		
Text Distance	Column	Distance between title and input field . Determines the distance between the text field and the input field (Column). This is automatically set if the field is moved using drag & drop. It is also possible to set the value manually. The default value of 200px is used, when there is no manual value set for this parameter. If this is changed to a low value, the text might not be visible, due to the field overlapping the text. This is only considered if there is no position specified for for the text field separately. 
Rotation	All	Rotate the field Input is in 1/10th of a degree°, e.g.450 = 45°. Caution: The tex will be changed. For input fields, the display is rotated but the input is still displayed in 0°. ***Example***: Rotation 90°, red background with white text.

© 2026 Boyum IT Solutions A/S

Field	Available for	Description
Drop-down	Column	Defines a drop-down or selection list for this field For details click ➪ Go to: Drop-down. 
Golden Arrow	Column	If a script has been stored, a golden arrow is displayed to the left of the input field. If the golden arrow is clicked, the script stored here is executed.
Click	All	A script can be saved here. It is executed when clicking on the field.
Validation Type Value	Column	Activates a check of the input. 

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Available for</th><th>Description</th></tr>
<tr><td></td><td></td><td>
The check of a field can be activated directly here.
The following checks are possible:
<table>
<tr><td>no Check</td><td>No check takes place.</td></tr>
<tr><td>between</td><td>The value must be between two values. Value 1 represents the lower value and value 2 represents the upper value. Therefore, the input value must be greater than 1 and smaller than 2.</td></tr>
<tr><td>smaller</td><td>Content must be smaller than the specified value.</td></tr>
<tr><td>bigger</td><td>Content must be bigger than the specified value.</td></tr>
<tr><td>contains</td><td>A list of values is displayed. Comma is used as a separator.
Example:
<code>red,blue,yellow</code>
In this case, only one of these 3 values is allowed.</td></tr>
<tr><td>SQL Script</td><td>The check is performed via a SQL statement. Information can be specified via the placeholder <dw_1.item.fieldname.value>.
Return: -1 = Input is faulty.
Return: 1 = Input is correct.
If the SQL statement returns anything other than -1, the input is also considered to be correct.</td></tr>
<tr><td>beas script</td><td>A BeasScript is executed.
If the script ends with "<code>return failure</code>", the input is incorrect.
If the script ends with "<code>return success</code>" the input is correct.</td></tr>
</table>
The check depends on the specified format.
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Available for</th><th>Description</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td>String</td><td>A string check takes place. Here the following rules apply:
<code>A < B</code>
<code>A1 < A2</code>
<code>1 < 9</code>
<code>1000 < 90</code>, since the input is always checked character by character and no numeric check is performed.

If the field is of the type "Date" it is converted into the format <code>yyyy/mm/dd</code> e.g. <code>2018/05/30</code></td></tr>
<tr><td>Numeric</td><td>There is a numerical comparison with 6 decimal places.

If the field is a date field, the date is converted to numeric format e.g. <code>2018/05/30</code> is converted to <code>20180530</code></td></tr>
<tr><td>Datum</td><td>A comparison of dates takes place.
The input of the the values to compare must be inserted in the format <code>yyyy/mm/dd</code> e.g. <code>2018/05/30</code>

If the field is of the type "String", it will be converted to a date type Datumstyp
If the field is of the type "Numeric" comparison is not possible.</td></tr>
</table>
If the field is a different type than the specified format, it will be converted to the appropriate format

Example field type = String, Format = Date
The content is automatically converted to <code>yyyy/mm/dd</code>. If it is empty it will be set to <code>1900/01/01</code>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Available for	Description
Script	Column	If BeasScript or SQL script is selected in the validation, then the respective script can be defined here.
Error Message	Column	Defines the message which should appear in case of an error.
Timing	Column	Defines when the check (validation) should take place Immediately: A check is made as soon as the field has been changed and when saving / adding . Save: A check is only made when clicking Save or Add. If there is a dependency on other fields, it is recommended to use the type "Save".

3.6.3.4.1 Dropdown

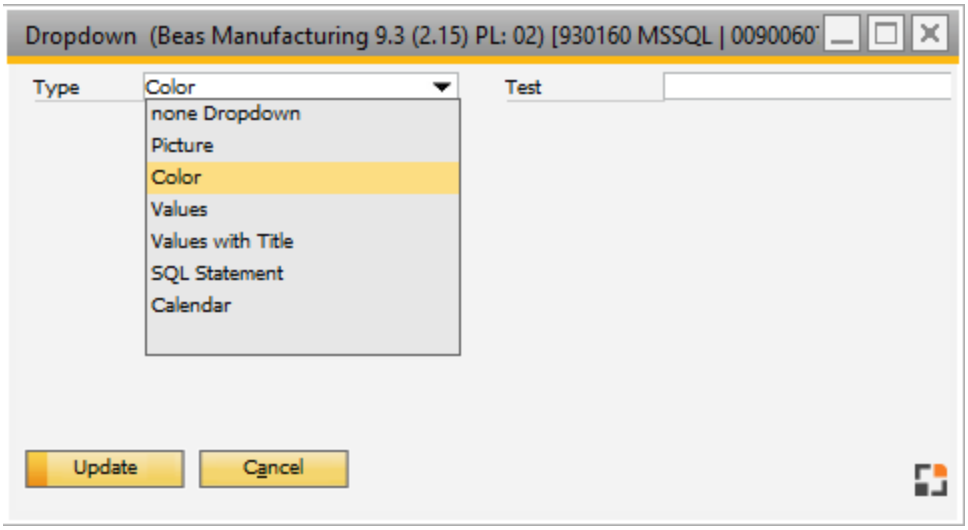
PATH: Administration > Add-Ons > B1 Usability Package > Module configuration > Beas usability extension >

1. Click "**New Edit Item**" button >
2. Click "**New item**" button >
3. Select Type: "Column"
4. Click / at the Drop-down field in the Function section on the right.

This is a sub-window of the Item Placement Tool – Field "Drop-down".

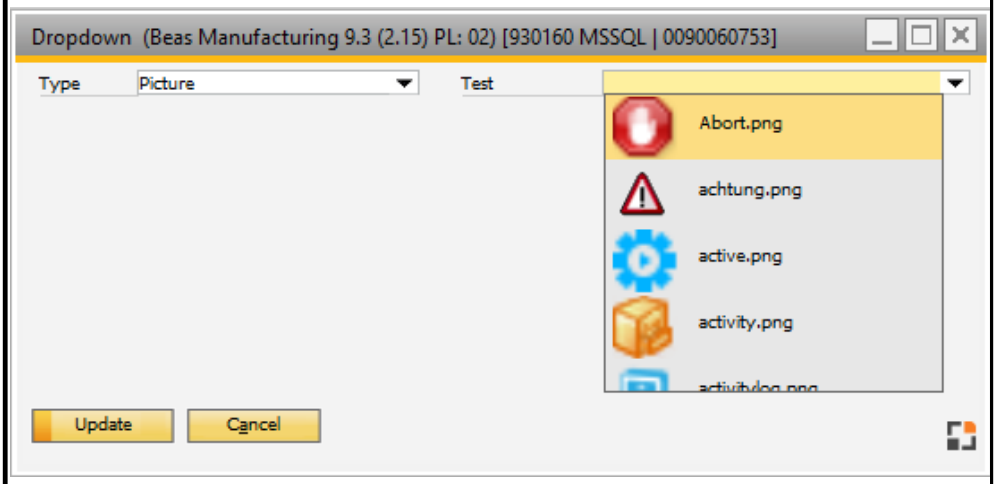
The function is active if in **Window Settings > Extended** you selected "Fixed user setting".
Here it is possible to define which values should be displayed for a selection.
You can select the drop-down type from the "Type" menu and configure it with the help of "Test".

© 2026 Boyum IT Solutions A/S

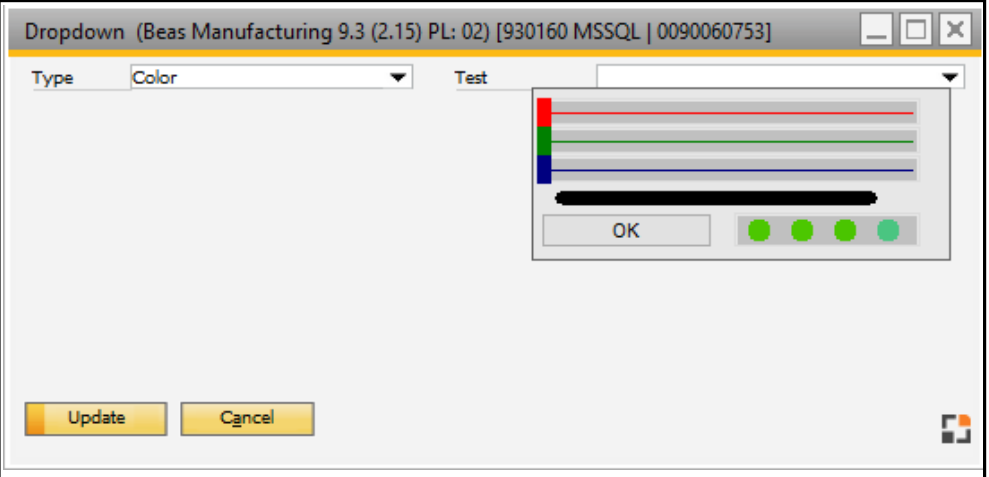
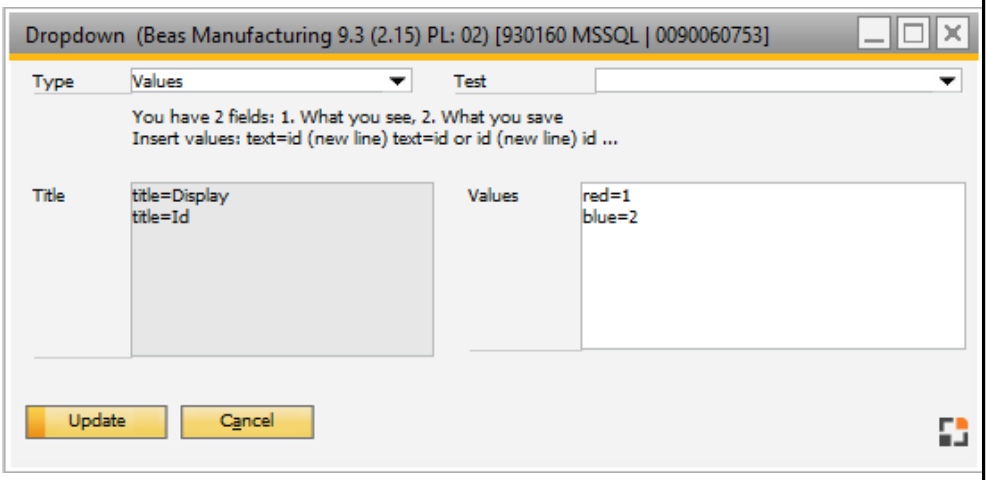


Window sys_itemplacement_edit_dropdown.psr

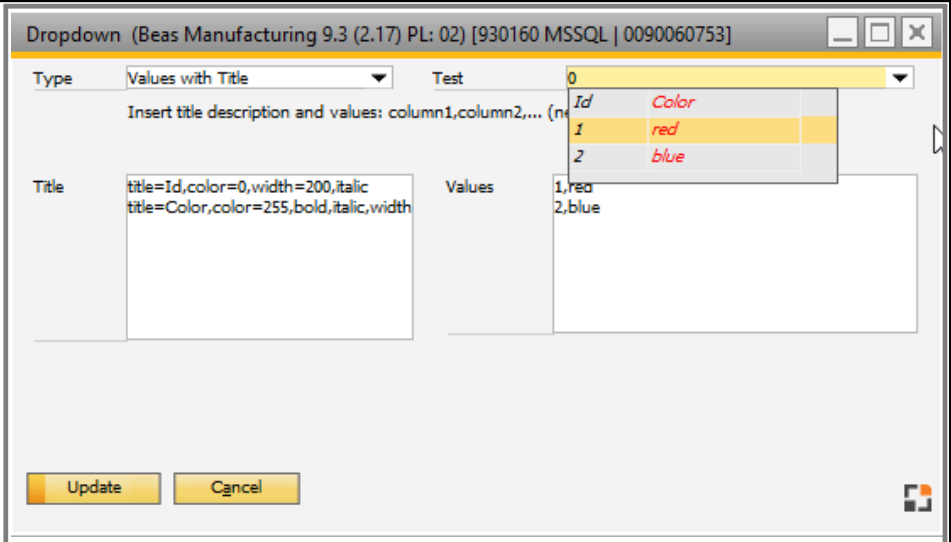
The following drop-down types exist:

Type	Description
none Dropdown	Deactivate a drop-down again.
Picture	You can select a picture or icon under the Test dropdown. The picture and the icon must be stored in: c:\program files\beas software\beas\bmp.  *Window sys_itemplacement_edit_dropdown.psr*
Color	Select a color.

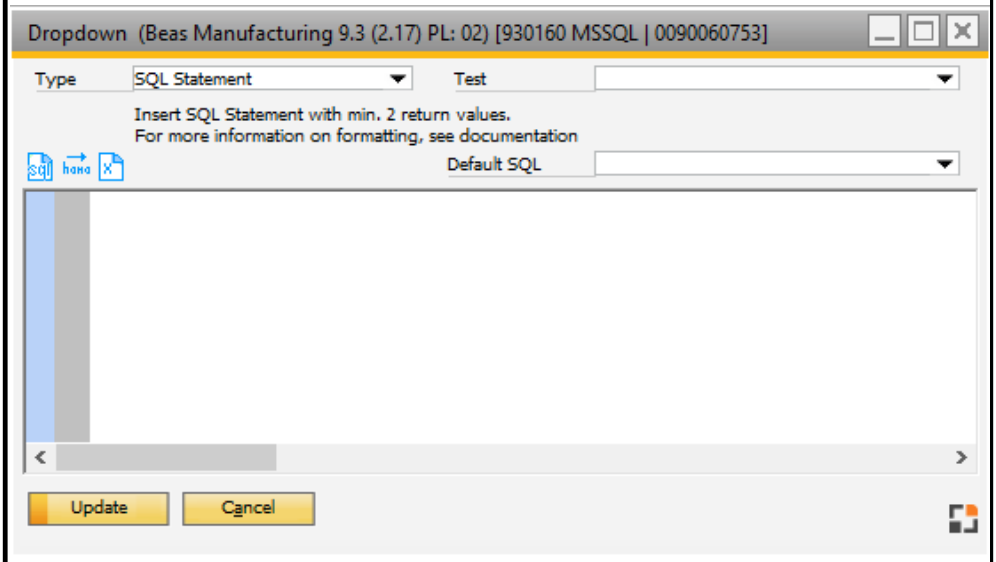
© 2026 Boyum IT Solutions A/S

Type	Description
	 *Window sys_itemplacement_edit_dropdown.psr*
Values	Selection from a list of values.  *Window sys_itemplacement_edit_dropdown.psr*
Values with Title	Selection from a list of values. Structure of the selection list can be defined.

© 2026 Boyum IT Solutions A/S

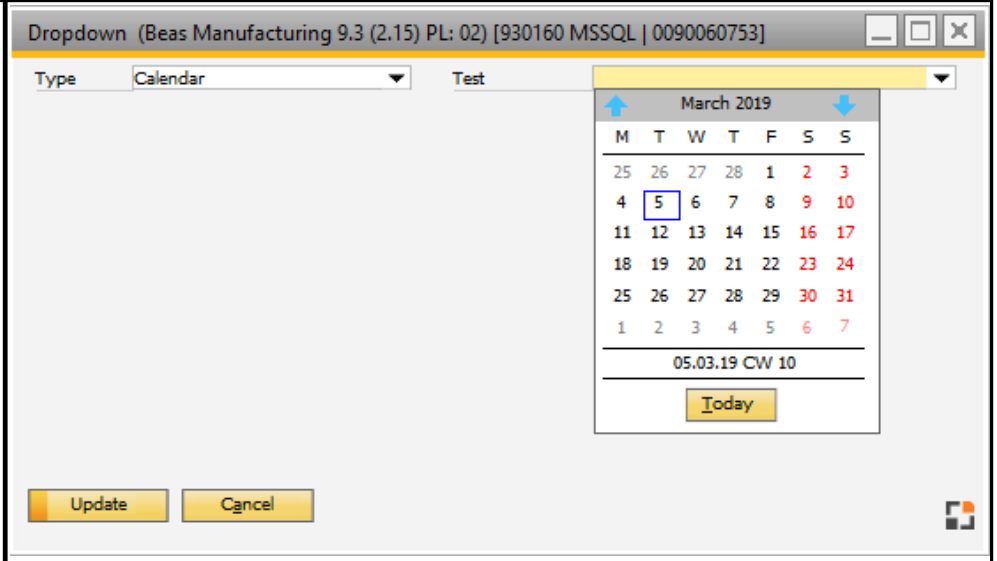
Type	Description
	 *Window sys_itemplacement_edit_dropdown.psr* There are two input areas available: 1. Description of the title 2. Values The title can be formatted with all format specifications separated by commas. ***Example*** `title=Color Description,color=255,italic,width=300` The following format types **Field** / **Description** title — Title to be displayed. color — Color as number (RGB value). e.g. red: `color=255` bold — Show text in bold. italic — Show text in italic. width — Determines the width of the text . visible — Visibility.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Type</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>Example: <code>visible=0</code> makes the field invisible.</td></tr>
<tr><td>alignment</td><td>Alignment: left, middle, right.
Example: <code>alignment=right</code></td></tr>
<tr><td>height</td><td>Determines the height of the text.</td></tr>
<tr><td>checkbox</td><td>Display as textbox .
The following options are available:
<code>checkbox=j</code> Value J/N
<code>checkbox=y</code> Value Y/N
<code>checkbox=c</code> Value C/N
<code>checkbox=1</code> Value 1/0
<code>checkbox=0</code> Value 0/1</td></tr>
</table>
</td></tr>
<tr><td>SQL Statement</td><td>The result of the SQL statement is displayed. Return values must be of type Char(). The first field is always used.
Alternatively, a ready-made selection can be used, e.g. articles, stock, etc.
 

Window sys_itemplacement_edit_dropdown.psr</td></tr>
<tr><td>Calendar</td><td>Calendar is displayed.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Type	Description
	 *Window sys_itemplacement_edit_dropdown.psr*

3.6.3.4.2 User

You can indicate the validity of the definition / users in the Item Placement Tool, function buttons, and validation configuration.

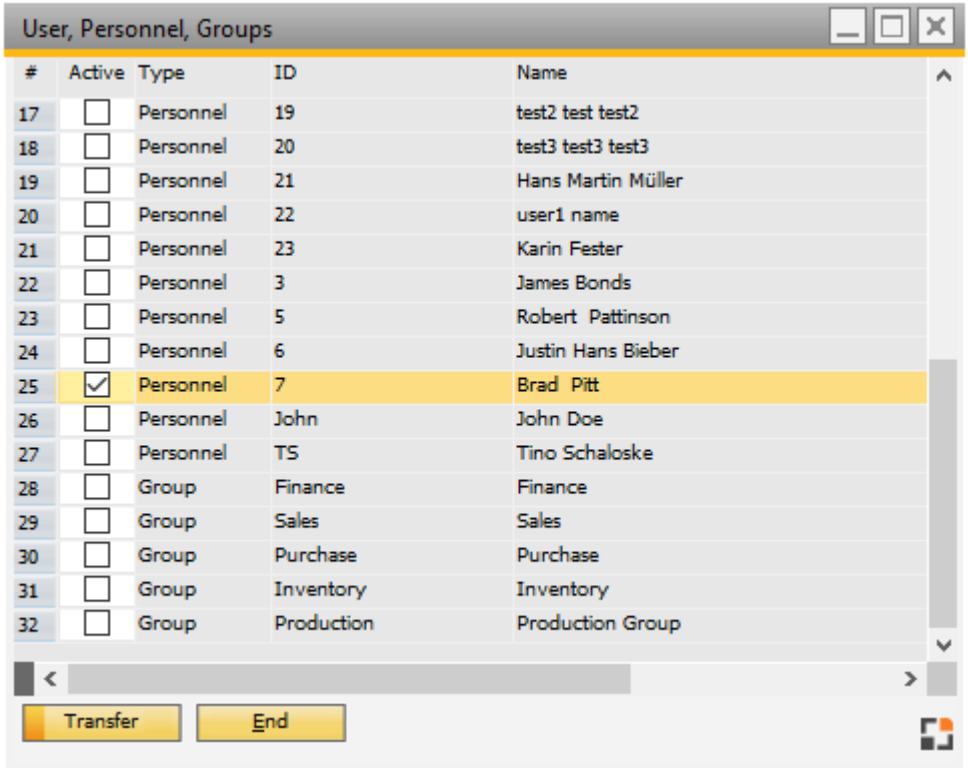
The following rule applies:

Field is empty: There is no check
Incl. User: The definition is only valid for the specified users
Excl. User: The definition applies to all users except for the users specified here

A user can be:
- SAP User
- SAP user group
- Personnel (**Menu: Human Resources > Personnel**)

In the selection window the corresponding user can be defined and taken over by the ("transfer button")

© 2026 Boyum IT Solutions A/S



Window bde_personal_browse.psr

3.6.3.5 beas Universal Function

Via Universal Functions different functions can be created. These functions can be stored in the window or in menus.

Beas Universal Functions can be used within the SAP Business One – environment, as well as outside the SAP Business One – environment (e.g. Terminal)

B1UP Universal Functions can only be used inside the SAP Business One – environment.

Therefore, to use Beas Universal Functions, you must first install B1 Usability Package (2018.05 or later) and Beas 9.3 or later.

The administration of Beas Universal Functions can be accessed in the following manner:

Path for Universal Functions that apply to a window:

> Administration > Add-Ons > B1 Usability Package > Module Configuration > Beas Usability Extension: "Beas Customizing Administration" window.

Path for Universal Functions that apply to a button:

> Right-click in the window > Beas Usability Package > Integration Icon / B1 UP – Setup Overview.

© 2026 Boyum IT Solutions A/S

The Beas Customization Administration window lists all the existing Universal Functions in the system. ***See*** Beas Usability Extension Overview.
To add a new function, click on the New Function button and the Beas Universal Function window pops up.

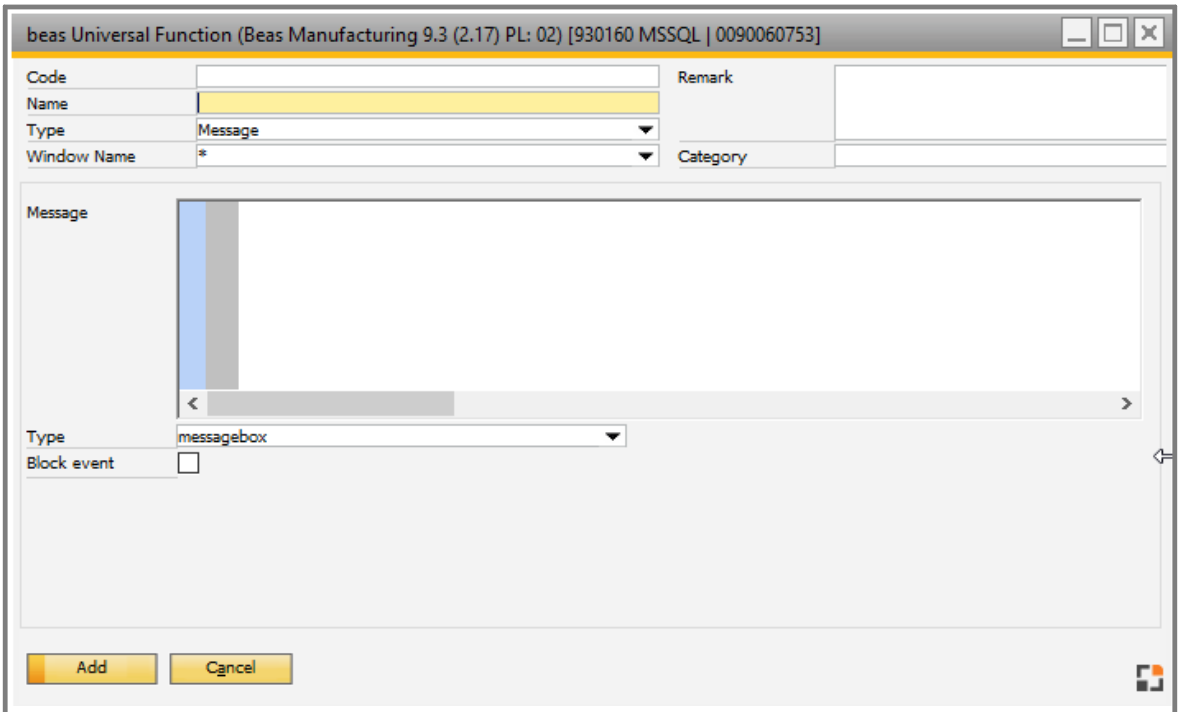
IMPORTANT: The Beas window used in the function must be opened in the background in order for Beas to automatically set the window name in the Universal Function. Otherwise, the user must type it manually.
The reason Beas does not have a drop-down list is that it has a large number of windows. If there is a Universal Function which is not window-related, there is the option for the Window Name called "Any Window" and no window should be opened in the background.

Note:
B1UP logic is executed when a screen is opened and not in any other moment.
Example:
You set a button to be displayed when you activate a certain tab. This means that all previous definitions are overridden, and the only way to "hide" this button is with BeasScript in any event when the button changes its status.

Adding new Universal Functions with the Beas Customizing Administration.

Open the Beas Customizing Administration window and click on "**New Function**" button to create a new function.
IMPORTANT: There is an access directly from the Edit Function Button window to create a function: **Beas Customizing Administration > Edit function buttons > Edit button.** Just click on the icon right of the Function field on the right and a new window opens. Click **New**.
The following window is displayed:

© 2026 Boyum IT Solutions A/S



–

Window sys_button_edit.psr

The window consists of two parts:

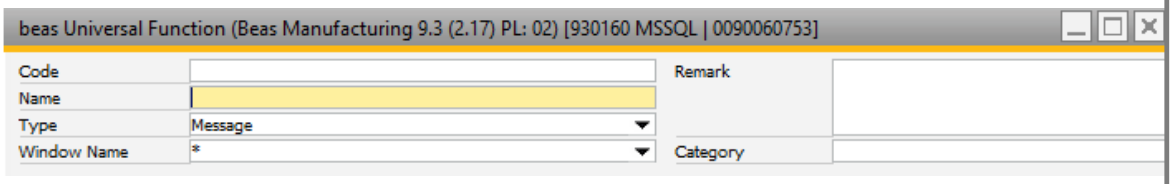
Header: Definition of the Universal Function,

Bottom: The appropriate input fields depending on the selected Type (SQL Report, Script, Message, or External Launcher).

The fields are described by type in details in the following table:

Universal Function Definition

The Header window section:



Field	Description
Code	This is a unique value. If this field is not set manually, the system automatically assigns a unique code when you click "Add". It is recommended to use the code assigned by Beas.
Name	Field used to define a name to the function.

© 2026 Boyum IT Solutions A/S

Field	Description
Window Name	Window where the function should be created. The window must be open. All open windows are available for selection. It is filled in automatically when creating the UF with a right-click in a Beas window. **Attention**: This field appears empty if the user creates the UF from the Beas Customizing Administration functionality.
Type	Determines which type of Universal Function should be created. The following 4 types of universal functions can be created: SQL Report: Enables the creation of lists. ***See*** UF SQL Report. Script: Executes scripts. ***See*** UF Script. Message: Displays message, error message, information etc. ***See*** UF Message. External Launcher: Runs external programs, display web pages or other media, direct printing of documents via Windows commands. ***See*** UF External Launcher
Remark	Field used to include a short description of the function.
Category	Field used to set a category defined in B1UP. Configuration groups can also be defined here.

3.6.3.5.1 UF SQL Report

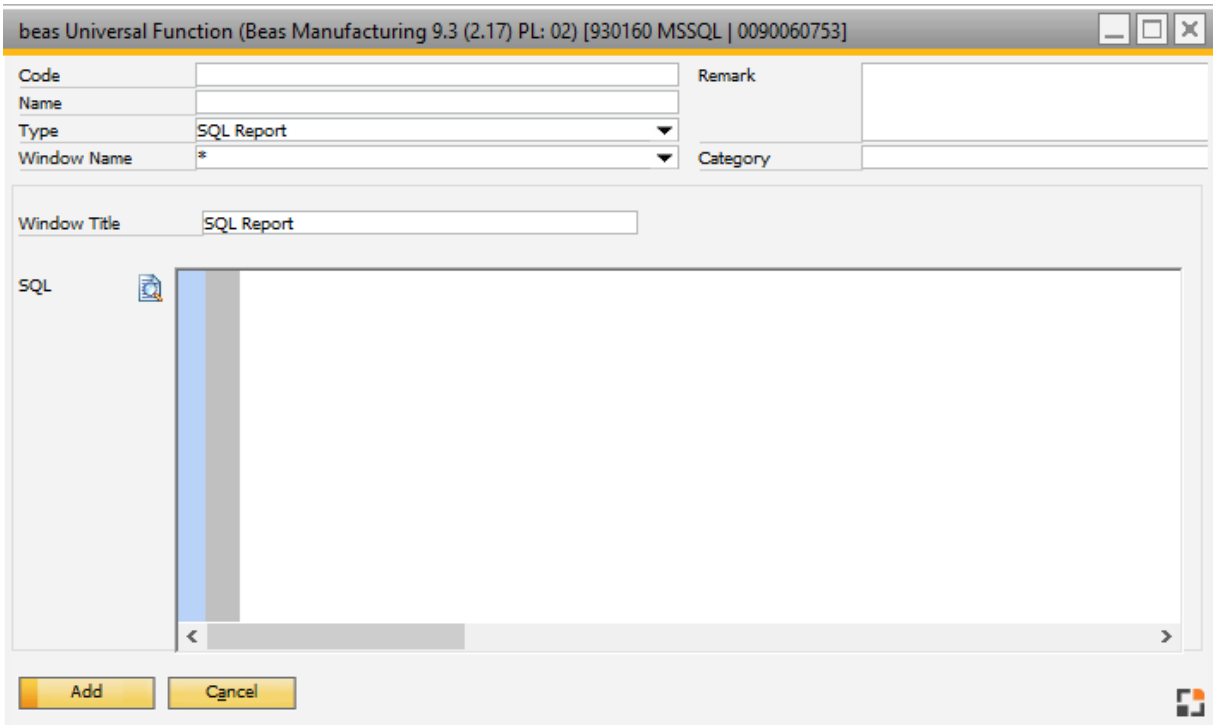
PATH: Administration > Add-Ons > B1 Usability Package > Module configuration > Beas usability extension >

1. Click **New Function** button >
2. select "Type": SQL Report.

The SQL Report Universal Function enables the creation of lists.

For field descriptions of Header ***See***: Universal Function Definition

© 2026 Boyum IT Solutions A/S



Window sys_function_edit.psr

Field descriptions highlighted:

Field	Description
Window Title	Field used to add a description for the report.
SQL	Field used to add the SQL report to be executed once the function is used. To create an SQL report, just click on the icon, to open the extended SQL Editor. The tool converts SQL code to HANA code only, not reverse.
Block Event	Check box option. You can set if the event should be blocked and cannot be executed. This can be a useful feature when validating data. For further details ***See*** Validation Configuration.

3.6.3.5.2 UF Script

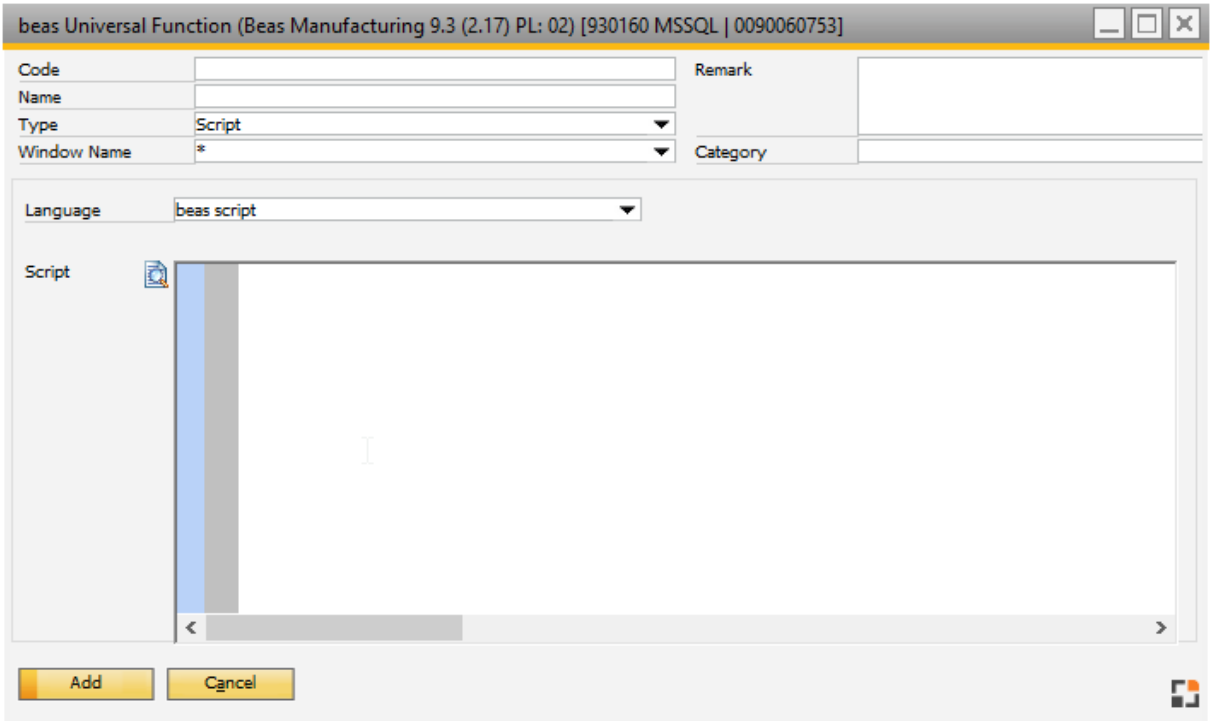
PATH: Administration > Add-Ons > B1 Usability Package > Module configuration > Beas usability extension >

© 2026 Boyum IT Solutions A/S

1. Click **New Function** button >
2. select "Type": Script.

With the help of the Script Universal Function you can enable the execution of scripts.

For field descriptions of Header ***See***: Universal Function Definition



Window sys_function_edit.psr

Field descriptions highlighted:
Language: Select in which language the script is to be written. Currently, only BeasScript is available.
Script: Field used to add the script that will be executed once this function is used. To start writing the script, click on the icon, then click on the Create Script Assistant icon in the beas script Editor. ***See*** Beas Script assistant

3.6.3.5.3 UF Message

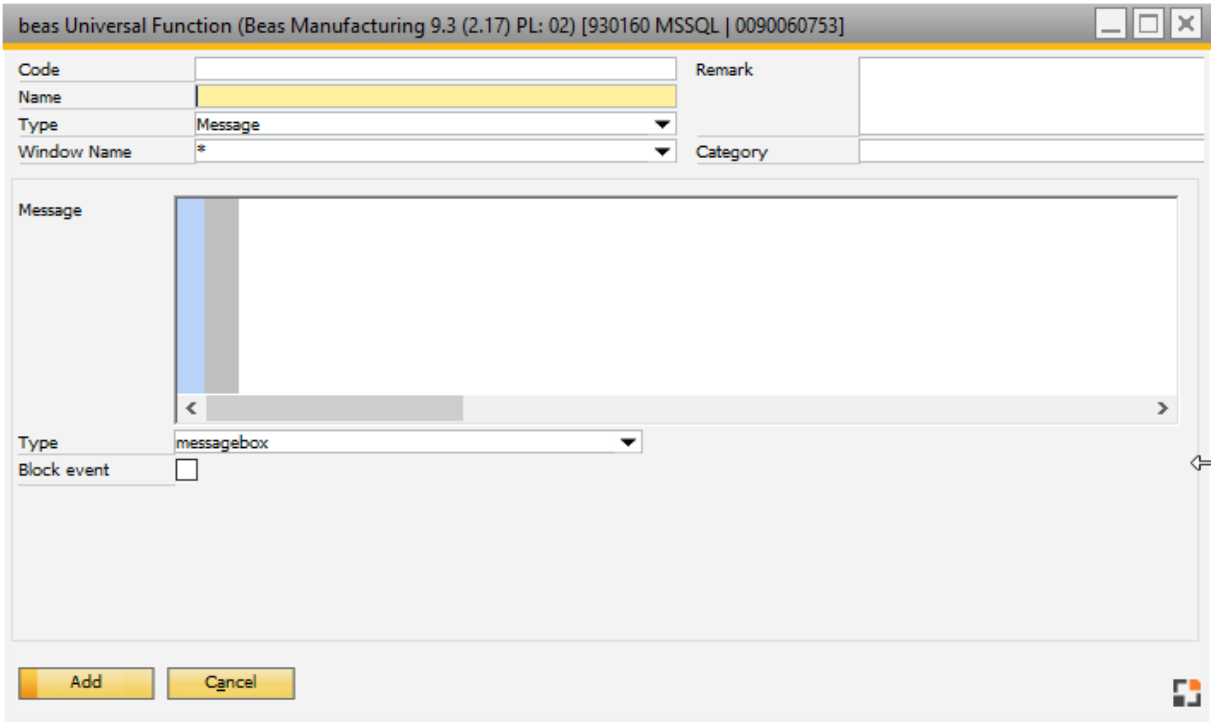
PATH: Administration > Add-Ons > B1 Usability Package > Module configuration > Beas usability extension >

© 2026 Boyum IT Solutions A/S

1. Click **New Function** button >
2. select "Type": Message.

The Message Universal Function lets you add text to various types of message windows.

For field descriptions of Header ***See***: Universal Function Definition



Window sys_function_edit.psr

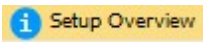
Field descriptions highlighted:

Field	Description
Message Text	Field used to add the text to be shown in the message pop-up screen (e.g. message, error message, information etc.)
Type	Select the type of message you want to be displayed from a drop-down menu (Message box, Status bar success, Status bar Warning, Status bar Error or Question)
Block Event	Checkbox option. You can set if the event should be blocked and cannot be executed. This can be a useful feature when validating data. For further details ***See*** Validation Configuration.

© 2026 Boyum IT Solutions A/S

- Creating a UF Message:

To create a UDF, open a window e.g. work orders.

Right-click anywhere in the window > click on the / icon, and then click on  to open the Beas Customization Administration window.

Here you can see a list of all UF functions and buttons associated with the original window you opened.

Click on the New function button to create a new UF message for this window.

Example:

You might want to add a new message to be displayed for certain invalid figures. Fill in the Header and also select how you want the message to be displayed at the Type field.

Click on Add, your new message function will be added to the list of all functions associated with this present window.

3.6.3.5.4 UF External Launcher

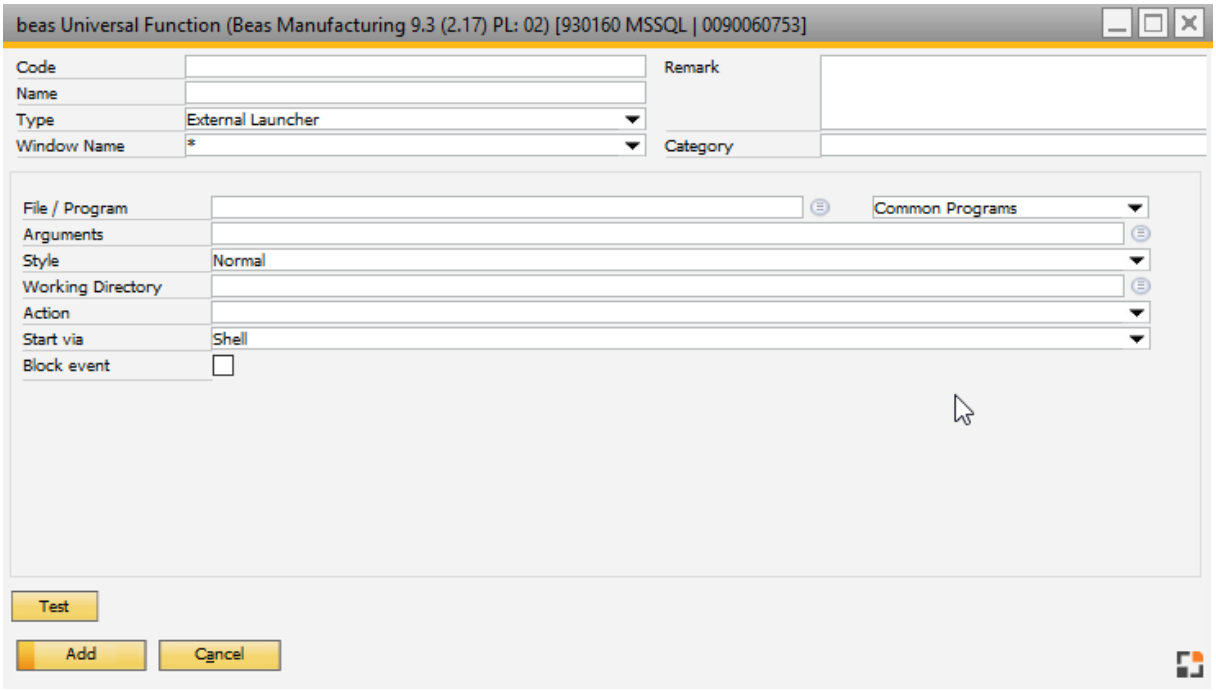
PATH: Administration > Add-Ons > B1 Usability Package > Module configuration > Beas usability extension >

1. Click **New Function** button >
2. Select "Type": External Launcher.

With the External Launcher Universal Function you can run external programs via Windows commands.

For field descriptions of Header ***See***: Universal Function Definition

© 2026 Boyum IT Solutions A/S



Window sys_function_edit.psr

Field	Description
File / Program	Clicking on opens an explorer window where you can select an .exe file on your system to be launched from B1 after the setting. The other option is making a selection from "Common programs". ***See*** next field description.
Common Programs	Select a common program to run With this drop-down menu you can select a common program (MS Word, Excel, Powerpoint, Firefox, Google Chrome, Internet Explorer, Skype, Acrobat Reader, Terminal server or Webpage) to be launched from B1. By making this selection, the "File / Program field is automatically filled and some other program-specific options are also filled or prompted automatically in the other fields. ***Example***: a word file will be used. The user must select the path where the word file is located (server or local) and the type of document used. (in this case, a Word document) The File / Program field is added automatically.

© 2026 Boyum IT Solutions A/S

Field	Description
Arguments	You can define the arguments you would like to run the program in, or, by clicking on you can add the path of the selected program.
Style	From a drop-down menu you can select how the screen should open for the program: Normal, Minimized, Maximized or Hidden.
Working Directory	By clicking on you can specify where the file is located. Once selected, it is automatically filled by Beas.
Action	With this drop-down menu you can choose the action you would like the selected program to perform: edit, explore, find, open, print or no action.
Start via	Select how to open and run the program With this drop-down menu you can select how the program should open and run. There are 3 options available: Run, Shell or Run and wait. - Shell: This option opens the file under what it is registered at. This is very useful if the user does not have certain programs installed and only needs to display the document. - Run: This option opens the program. - Run and wait: This option opens the program but freezes beas until the program is closed.
Block event	Check box option. You can set if the event should be blocked and cannot be executed. This can be a useful feature when validating data. For further details ***See*** Validation Configuration.

Test: Button used to test the defined function.

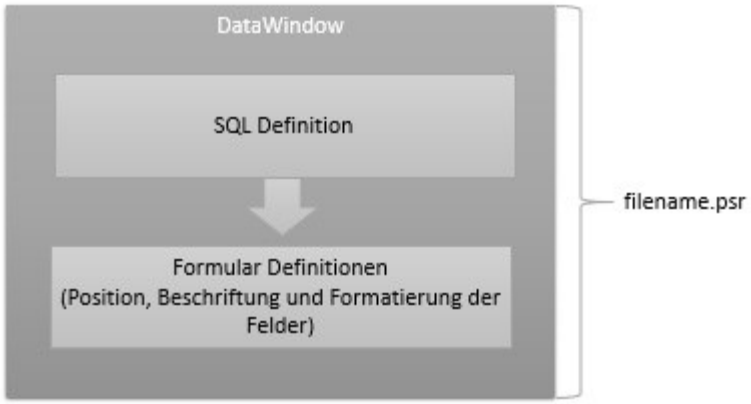
3.6.3.6 Form, DataWindow, Items

Introduction

In Beas the windows are defined similar to HTML contents and are saved in a file
Beas uses the form system "DataWindow", an object from the programming language "Powerbuilder" (C) Appeon, in order to achieve this. Which is similar to "Crystal".
There is a SQL designer and a Form designer available, which makes the creation on new windows very easy.

© 2026 Boyum IT Solutions A/S

The Window ID is the name of the form, i.e. the file with the extension ".psr", e.g. "article_browse.psr" for the article list.
in order to open this window only the name has to be provided, e.g. in BeasScript:
`opennewwindow=artikel_browse.psr`

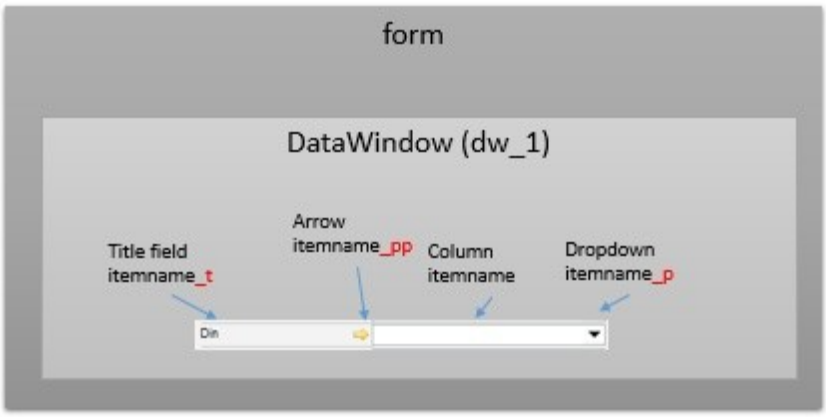


If a window (form) is loaded, it contains a form (DataWindow) with the name dw_1
There are windows which have several forms e.g. the MRP view. These windows are then addressed with dw_2, dw_3 etc. A maximum of 7 forms can be loaded.
The name of the window is always the same as the name of the forms in dw_1

When a form is loaded, the SQL statement is executed and stored in the SQL container. The content of the SQL container is shown in the items of the form.
If the field content is changed it will immediately be written back (Syncronized) to the SQL container. During an update, the contents of the SQL container can be written directly back to the database.

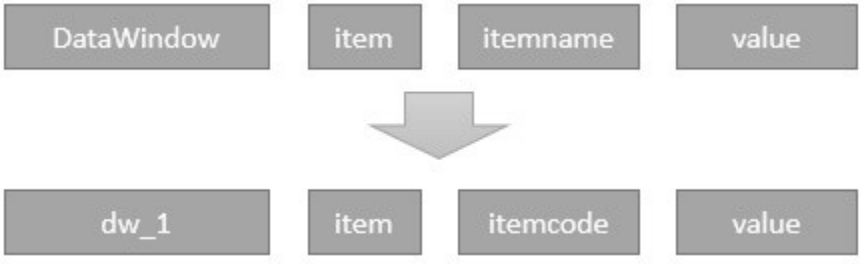
A form has the following structure:

© 2026 Boyum IT Solutions A/S



Scripts and events are always executed within the form.
Scripts are stored in a file for this purpose: name of form in dw_1 + extension: ".src"
For validation configuration, function buttons, Item Placement Tool and universal functions it must also be specified for which window (name of the file) they apply.

Within a script, a field is addressed as:



How to change a value in the field ItemCode:
dw_1.item.itemcode.value="new value"

In order to determine the value, the same syntax is used
in beas Script < and > is used in order to do this

<dw_1.item.itemcode.value>

"item" is a property of dw_1. This also has other properties such as x-Position, y-Position, length, width, and much more
e.g.
`dw_1.x=100` moves the form to x-Position 100

© 2026 Boyum IT Solutions A/S

`<dw_1.rowcount>` returns how many result rows there are in the form

the "item" is however also a separate object with properties. e.g. "value" is the content
Other elements are: x, y, width, color etc.
`dw_1.item.itemcode.x=1000` moves the field to the x-Position 1000 within the form

A list can contain several result rows. The line number must be specified accordingly
this is done with the following syntax (BeasScript):

<dw_1.item.itemcode:[line number].value>

e.g. for line 5
<dw_1.item.itemcode:5.value>

Variables should be enclosed in brackets
e.g.

```
setvar=linenumber=5
messagebox=<dw_1.item.itemcode:[linenumber].value>
```

Formatting

If a field should be inserted into a SQL statement, it must be formatted.
Formatting is defined as follows:
<dw_1.item.itemcode:[linenumber].value,format>

The following formats must be used in the SQL statements:

Format	Syntax	Example
String	dbstring	`select * from "OITM" where "ItemCode"=<dw_1.item.itemcode.value,dbstring>`
Number	num(x)	`update U_myTable set "Quantity"=<dw_1.item.quantity.value,num(6)>`
Date	dbdate	`update U_myTable set DeliveryDate=<dw_1.item.deliverydate,dbdate>`

Within the script another formatting takes place

Format	Syntax	Example

String		`if <dw_1.item.itemcode.value> = "A001" then`
		`  ...`
		`end if`

© 2026 Boyum IT Solutions A/S

Format	Syntax	Example

Number	#0.000000	`if <dw_1.item.quantity.value,#0.000000> n> 10 then`
		`  ...`
		`end if`

Date	yyyy/mm/dd	`if <dw_1.item.deliverydate.value,yyyy/mm/dd> <`
		`<today,yyyy/mm/dd> then`
		`  ....`
		`end if`

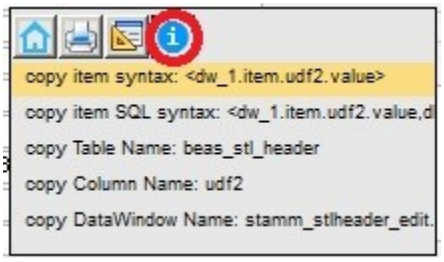
How can a field name be determined in a form?

There are several options to do this:

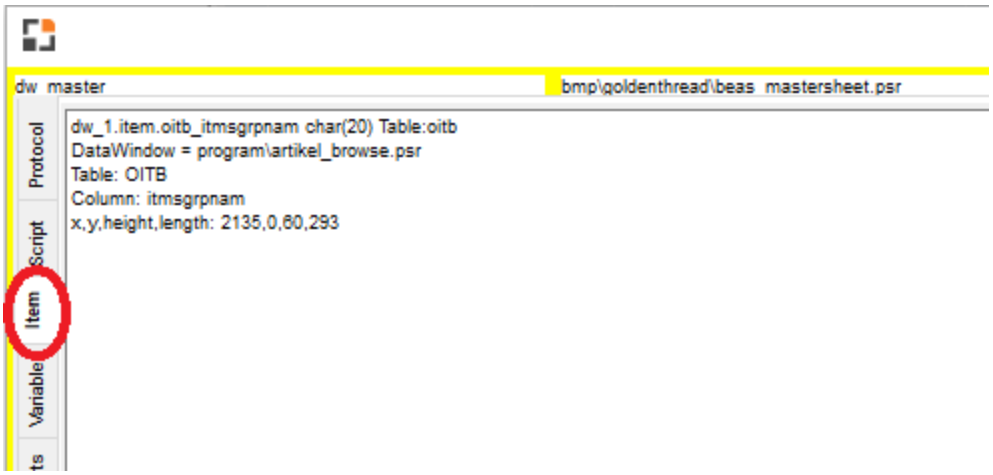
Go to: **View > System Information** (Ctrl + Shift + i).

If this is active: **Right-click > Tab** .

Here the field name can be copied to the clipboard.



Or in the opened debug window 2: click on the Item-tab, hold the Ctrl key and place the cursor over the corresponding field, then release the Ctrl key:



3.6.4 B1 Usability Package

The following topics instruct you how to use the B1 Usability Package with Beas:

© 2026 Boyum IT Solutions A/S

Open Form

Beas placeholder

Menu entries

B1 UP Usability package Documentation

Script / Customizing Documentation 2026.04.0

3.6.4.1 B1 openform

With macro function "openform" you can open most Beas forms:

```
openform(BEAS:[formname]|Parameter|Parameter);
```

Example:

The following command opens the work order window:

```
openform(BEAS:Workorder|500);
```

> Note: In Beas many windows you need more than one parameter, for example: the Work order position window needs Document Number | Line Number

Example:

The following command opens the work order position window:

```
openform(BEAS:Workorder|500|10);
```

You can work with Stores

```
@store1=500|10;
openform(BEAS:Workorder|@store1);
```

For more information ***see*** Script / Customizing Documentation 2026.04.0

3.6.4.2 B1 beas placeholder

In Beas, placeholders are defined with `<fieldname>` syntax , whereas in B1UP the placeholder syntax is `$[x]`.

It is possible to read fields from a Beas window with the `$[x]` syntax.

Syntax: `$[BEAS:x]`

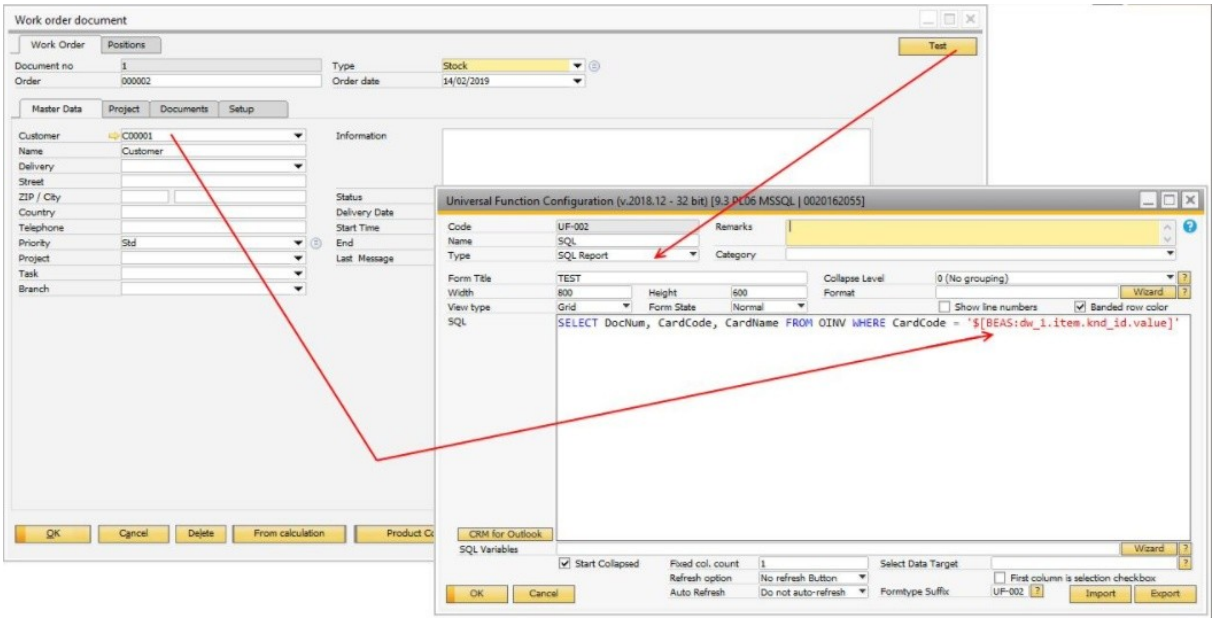
Example: `'$[BEAS:dw_1.item.itemcode.value]'`

You can use Beas Format functions, for example format "dbstring" for SQL format:

© 2026 Boyum IT Solutions A/S

```
select "ItemName" from "OITM" where "ItemCode"=
'$[BEAS:dw_1.item.itemcode.value,dbstring]'
```

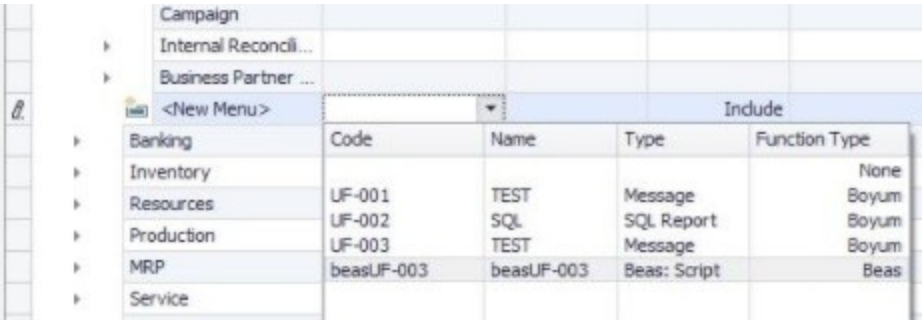
See Form, DataWindow, Items



3.6.4.3 B1 Menu entries

You can insert Menu entries with B1UP.

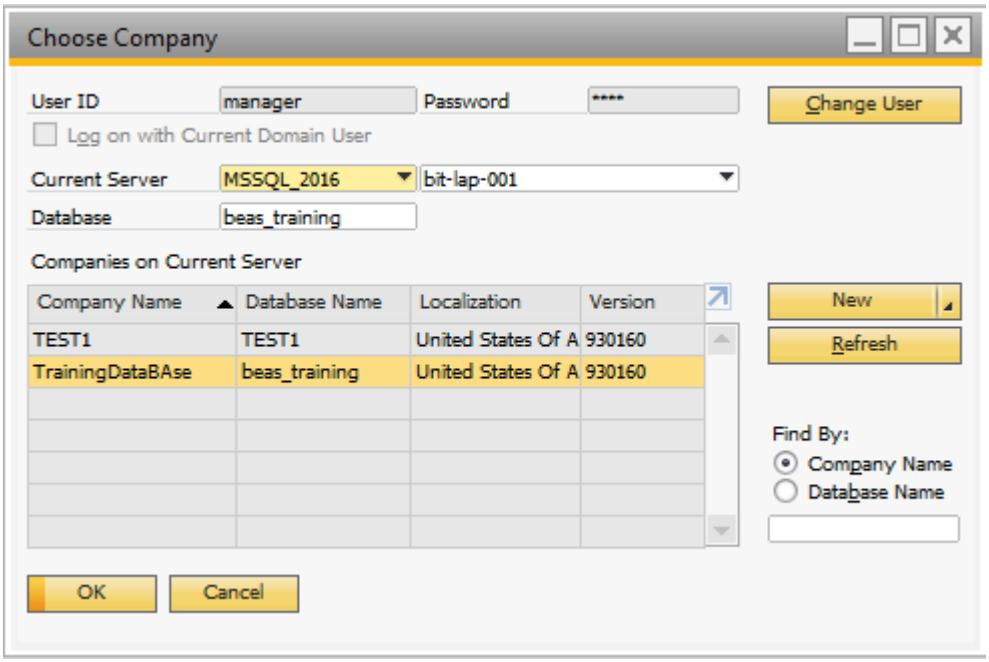
It is also possible to call Beas universal functions.
Beas universal functions always start with "Beas", for example "beasUF-003".



3.7 Change company

With this function the company or user can be changed without restart. The system allows managing different databases without closing SAP. Beas is restarted.
You can access the screen below after clicking the "**Change Company**" button on the SAP B1 login screen, or by selecting it from **Administration > Choose Company**.

© 2026 Boyum IT Solutions A/S



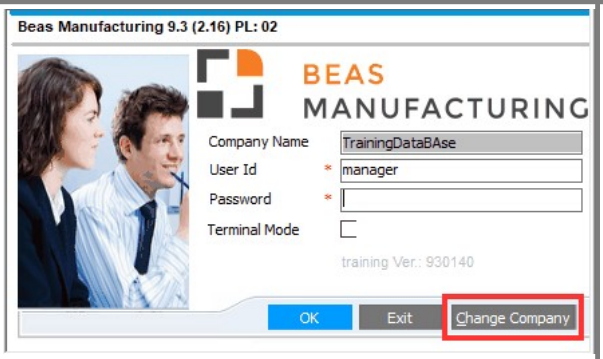
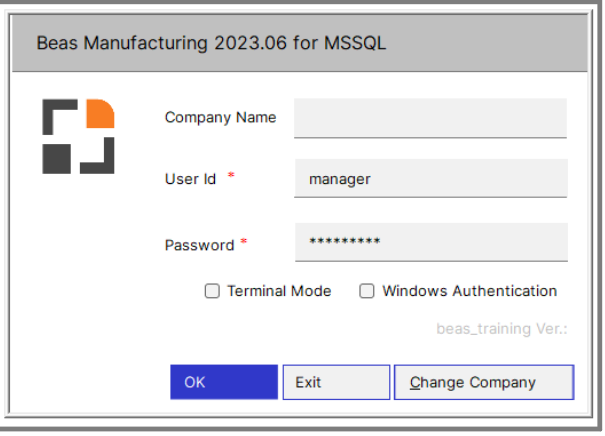
Window beasgui_sbo.psr

When working with different servers, perform steps in this order:

1. Choose the SERVER to work on.
2. Select the database.

If you start in Beas standalone, it will open the Beas Logon Screen.

Click on "**Change company**" if you want to log on to another Database.

Traditional style	Boyum Style
	

© 2026 Boyum IT Solutions A/S

3.8 Events

Events can be defined to trigger certain activities. You can combine them with milestones to monitor your projects.
Beas has an own event control system that can generate a message or action about any event that can occur in SAP or Beas.
An action is not just a message. It also provides the possibility to make up to three different decisions, e.g. to grant a release, to provide more information or simply as a confirmation.
See News

For certain events, the event control can also have a direct influence on the action, e.g. block or influence an operation.

Which events can Beas react to:
- any type that is associated with capturing data
- any type that is associated with not capturing data

How can Beas react:
- SAP Business One text message
- SAP Business One activity with decision-making functions
- beas activity with decision-making functions
- user-defined action

Beas is supplied with a catalog of predefined events. This also suggests sensible interactions that simplify setup.

What can be represented?
Here are a few examples:
- A person changes something in the item master. Another person must be informed and s/he checks the changes.
- Work order is printed: Message to the production manager, who has to release this for production.
- delivery date of the production order is changed. delivery date as per contract can no longer be met: message to the sales department
- production order is registered for the first time. Message to the sales department and to the customer via email.
- Block work order completion message if full quantities were not reported, including message and release options
- Email to customers when supplying delivery note

© 2026 Boyum IT Solutions A/S

- Message to production manager when goods arrive in the goods receipt
- Message to organization manager when an action occurs in a work sequence connected to a milestone or a milestone is exceeded.
- Message incl. actions when warehouse stock is exceeded

An action can also generate another action, whereby a work flow can also be represented.
Because everything can be freely defined in this area, all requirements can be represented.

What can the system not do?

SAP Business One offers a release approval procedure. All entries (e.g. the order) are saved as draft documents and must be released by another person. The draft document is saved as the correct order.
This kind of release approval procedures are not possible here. Processes can be saved but "intermediate storage" of the entries and changes is not possible.

Training slides on event control

3.8.1 Event control

What shall happen at an event, for example create a message.
Setup: **Administration > Utilities > Events**

Columns

Field	Meaning
ID	Unique number for the activity.
Active	Activity set to active?
Day of the week	
Event	Id of the event causing the activity.
Description	Description of the activity.

Functions

Field	Meaning
Edit	Edit current activity.

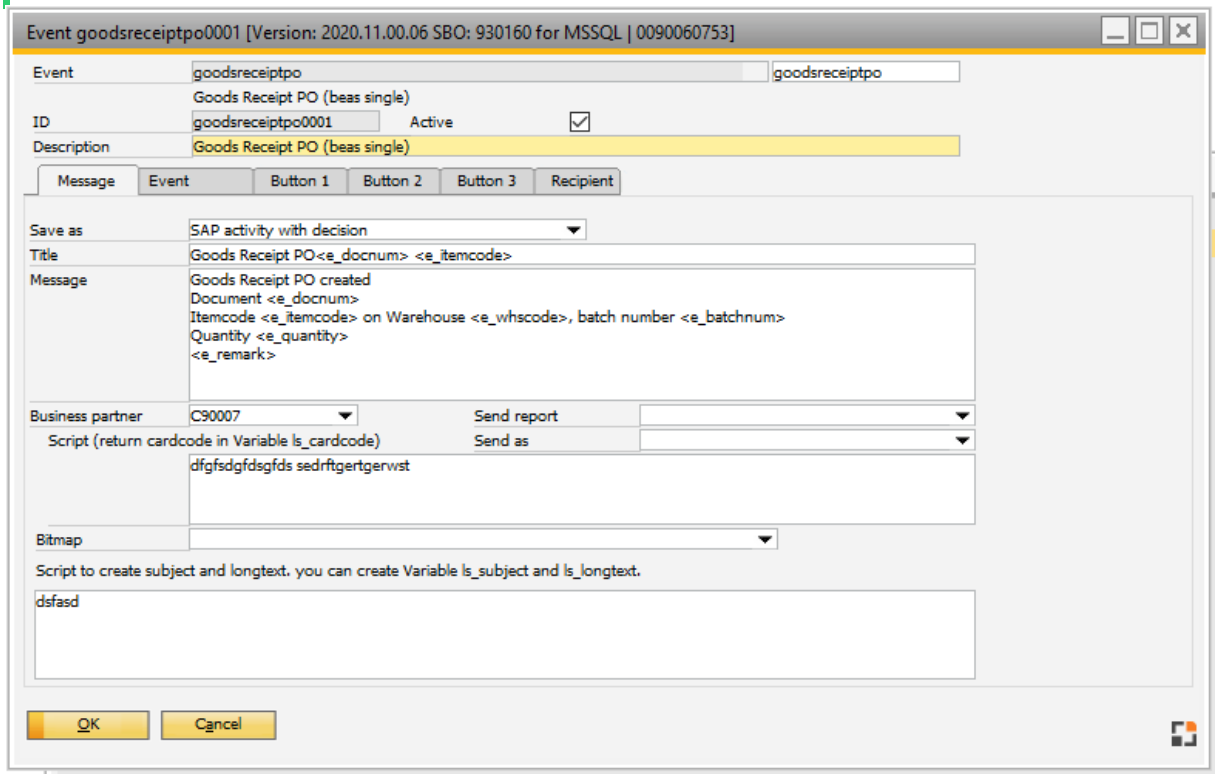
© 2026 Boyum IT Solutions A/S

New	Create new activity.
Delete	Delete activity.
Export	Export all activity settings: these are copied to %programdata%\beas\project\<customer directory\eventsetup.psr
Import	Import all activity settings. Same directory as for export is used.

3.8.1.1 Setup activity

Event activities are defined in this window.

PATH: Administration > Utilities > Events "**Open**" an event.



Window system_event_setup_edit.psr

Field descriptions

Field	Meaning
Event	The event of the activity.
ID	Unique ID of this definition.
Description	Description of this definition.

© 2026 Boyum IT Solutions A/S

Tabs

Field	Meaning
Message	Setup the type of message to be created and what to display.
Event	Under which conditions the activity is created.
Button 1...3	Up to three buttons can be defined which is displayed in the message/activity.
Acceptor	The person to receive the message.

Message tab

Field	Meaning
Save as	Which kind of message is created? For further information ***see*** separate table "Message types" below.
Title	Message title (Email, activity...)
Message	Message text. Place holders are allowed. If the event is linked to a window, all information from this window can be accessed. Available variables are displayed at the bottom of the window.
Business partner	If an SAP Business One-activity is to be created, enter the business partner ID.
Script (return cardcode)	Business partner can also be determined per script, and it is returned in variable ls_cardcode ***Example***: Update customer order. `setvar=ls_carcode=<select cardcode from ordr where docentry={documentparams_docentry}>`
Bitmap	If the message is saved as "beas event with decision" a bitmap can be displayed.
Send report	Access to macro system, select the macro to be executed.
Send as	Determines how the macro is executed; select from email, fax, excel, pdf, preview, print.
Script to create subject and long text	The title and long text can be created by using script. Title is returned in Variable ls_subject Message is returned in Variable ls_longtext

© 2026 Boyum IT Solutions A/S

	Per default these variables are loaded with the text stored in "Title" and "Message" ***Example***: `setvar=ls_subject=hello world`

Message types

Save as	Meaning
Beas event with decision	A Beas-message with up to three buttons (decision). It can be processed in the message window quickly.
SAP Business One-activity with decision	SAP Business One-activity with up to three buttons. Advantage: integrated into the SAP Business One-activity system. Disadvantage: no quick processing. In parallel this message is also displayed in the Beas-message screen. If the message is closed there, the SAP Business One-activity will also be closed.
Command	Only the script entered in command-tab is executed.
Message without decision	Only a pure Beas-message is created without decision criteria

Event tab

Field	Meaning

Event Script	Script checks if the activity shall be executed.
	Use "return false" to block the creation of an activity.
	Example: (itemchange): the activity shall be created only for material group "A500"
	`select u_gruppe from oitm where itemcode='<e_itemcode>'`
	`if <wert1> <> A500 then`
	`  return false`
	`end if`

From, To	The period to create the activity ***Example***: if during late shift (from 18:00 - 23:59) only a message shall be created: Entering a period exceeding midnight (e.g. 18:00–6:00) is not possible. In that case, two activities are required (e.g.: 18:00–23:59 and 0:00–6:00)
Sunday ... Saturday	Select the day(s) to create this activity. ***Example***: Daily event: the message shall be created only on Wednesday. Remove the check mark for all other days.

© 2026 Boyum IT Solutions A/S

Do not send messages to yourself	If you create an event which causes an activity, you can select not to receive the message. ***Example*** itemchange: create message only if item was changed by someone else.
Show every message only once	If for example 20 changes are made for one item, this would lead to 20 messages. Activate this option to create only one message (if there are no other unconfirmed messages).

Button tab

If the message is defined as "Beas-message with decision" or "SAP Business One-activity with decision" up to three buttons can be displayed.

There, these buttons are defined and filled with functions.

Field	Meaning
Name	Button name (displayed in activity).
Visible	Select button to be visible.
Activity close	If enabled, the activity is closed after clicking this button.
Execution Script	By clicking the Update button, the script is executed. **Important:** There is no reference to the event or the affected window. For this reason only variables `basenr1`, `basenr2` and `basenr3` are available. `basenr1` is of type "`Char`", `basenr2` and `3` of type "`Integer`" The content of these variables depends on the event. ***Example***: Event with reference to work order. In variables the work order document number is stored. Task: Call work order document. `openwindow=fert_fthaupt_edit.psr=belnr_id:<basenr1>`
Bitmap	If the message is saved as "Beas event with decision" a bitmap can be displayed.
Visibility Script	Define the button visibility. The script is executed at the moment the activity is created. All variables and reference to the current

© 2026 Boyum IT Solutions A/S

	window are available. If the script is ended with "`return false`" the button is not visible any more.

Recipient tab

Field	Meaning
Recipient 1...3	Up to 3 recipients can be selected. Not all selected recipients get the message. Beas decides over the recipients according to the following principle: 1. is recipient 1 currently logged on in Beas (program registration, not attendance) If yes, then he is the recipient. If no: 2. is recipient 2 logged on ? If yes, then he is the recipient. If no: 3. is recipient 2 logged on ? If yes, then he is the recipient If not, message is sent to recipient 1, even if not logged on.
Recipient-Script	Use script to determine who will get the message. `ousr.internal_k is` returned in variable "`value`". ***Example***: manager to get the message (User_code=manger) `select internal_k from ousr where user_code='<manager>' setvar=value=<wert1>`

Command tab

This tab is only visible if in **Message > Save as "Command"** was selected. Upon the selection, the Button tabs + Acceptor tab disappear.

Field	Meaning
Script	Window to enter any script.

3.8.1.2 Standard events

The following events are available by default.

System

© 2026 Boyum IT Solutions A/S

Field	Meaning
System: daily unique event at the first start Beas	Event is executed at the moment beas is started for the first time at any work station. The event is executed only once a day.

Materials management

Field	Meaning
item: item changed	If an item is changed via SAP Business One master or the Beas-item master, this event is called. **Important:** there is no direct reference to a window. You can´t determine what exactly was changed. This can only be determined in the History-window of SAP Business One

Production

Field	Meaning
workorder: login	Called, when a work order is logged in. As additional condition a milestone can be stored. If no milestone is stored the event is called.
workorder: logout- can not close with min-quantity	Is called when an operation sequence is logged off, the user tries to close the operation without having reported the full planned quantity. Prerequisite: in the affected operation the option "Extended - Block closing with less quantity" is enabled.
workorder: check milestones	Event is executed once a day at the moment Beas is started for the first time at any work station. Messages are created depending on the milestones stored in operations, the stored dates and numbers of days (alerts) in the activity. These events can also be managed in milestone administration.

3.8.1.3 Own events

Next to standard events you can add own events. ***Example***: change of customer data, project, assembly posting etc. Some basic knowledge of BeasScript is necessary.

How to:

With an event (in Beas script use windowsevent) the event system can be called up.
The event system is called:

© 2026 Boyum IT Solutions A/S

```
tools=createevent=<Ereignisname>=<filter>=<basetyp>=<baseref1>=<baseref2>=<baseref3>
```

Command	Meaning
createevent	Function, controlling the event system.
Filter	Additional filter condition.
basetyp	Arbitrary delimitation e.g. for I item Item, C for customer. This command makes certain that messages are unique (Option: each message only once). It may be left empty. Important: Max. 1 character.
baseref1	Reference (e.g. customer order, item number, document number etc.) Type "String", can also save numbers.
baseref2	Second reference – e.g. work order item number. Only number.
baseref3	Third reference – e.g. operation. Only number.

This event is now available. Under **Administration - Events** a new activity definition can be created and the event can be entered under "events".
To make it more easy to use, create an XML file in the project directory in which the event is defined.
In this file, the name of the event, the description and template for new creation is saved directly.

Example customer change

1. Call SAP Business One Business partners.
2. Change business partner, open the debug screen, save changes.
   Now all events are set and the variables are displayed.
3. Open **customized extensions.**
4. Enter the following script with the given information.

```
windowevent update
setvar=e_cardcode=<businesspartnerparams_cardcode>
tools=createevent=cardcodechange==C=<businesspartnerparams_cardcode>
end event
```

Now an activity definition can be created for the event "`cardcodechange`"

For further simplification of this event can be made permanently available.

© 2026 Boyum IT Solutions A/S

For this, in the project directory a file event.xml is created.

Configuration must be the same as the file in c:\program files\beas software\beas\program\event.xml

Important: in the area of event definition no comment lines or empty row may be added.

Important areas

Area	Meaning
info	Info on this file
events	Selection list of available events Configuration: `Event name=Event ID` Event name may be arbitrarily long Event ID may only have 20 characters at most. Only this is saved in activity definition
<eventkennung>	In this area the event itself is defined. Example: `<cardcodechange>....</cardcodechange>`

Definition of an event

The following settings affect the screen **Administration - Events**.

Area	Meaning
eventinfo	Text information on this event.
key	Additional key for filter (activates the field event key). The name of the filter or field is defined here `<key>Milestone</key>`
eventkey2 ... eventkey6	Enables up to 5 additional entry fields for definitions `<eventkey2>Alarm Days</eventkey2>`
setupdisplayscript	Script is executed if at new creation the event was selected or an existing definition was opened. Additional possibility do manipulate the definition window. ***Example***: A drop-down list in key field for mile stones `post=item.eventkey.dropdown.select= milestone from beas_milestone order by milestone`

© 2026 Boyum IT Solutions A/S

	To manipulate the list of recipients, a global function ca be defined, which is called when the recipient page is opened.
	The following script adds entries to the selection list of recipients
	`global function user_getuser`
	`dw_1.item.senduser1.dropdown.addvalues=<spr:Projektleiter> 1=-10`
	`dw_1.item.senduser1.dropdown.addvalues=<spr:Projektleiter> 2=-11`
	`global end`
	
	Example:
	`<cardcodechange>`
	`<setupdisplayscript>`
	`messagebox=hello world`
	`</setupdisplayscript>`
	`</cardcodechange>`

info	The given text is displayed in each tab, in which scripts can be executed. For example the available variables can be displayed. `<info>e_cardcode = cardcode from changed user</info>`

new	In this area all available fields are defined which can be set at event selection.
	All variables available in this window can be set.
	
	Example 1:
	`<new><sendas>1</sendas></new>`
	Set up the message to be created as Beas message
	
	Example 2:
	Area for item change
	
	`<new>`
	`<eventname>itemchange</eventname>`
	`<key1name>Bearbeiten</key1name>`
	`<key1visible>1</key1visible>`
	`<key1script>openwindow=artikel_edit.psr=s_parm1:<bastring></key1script>`
	`<key1setclose>1</key1setclose>`
	`<key1bitmap>bmp\zoom.bmp</key1bitmap>`
	`<key2name>OK</key2name>`
	`<key2visible>1</key2visible>`
	`<key2setclose>1</key2setclose>`
	`<key2bitmap>bmp\m_ok.bmp</key2bitmap>`
	`<sendas>1</sendas>`

© 2026 Boyum IT Solutions A/S

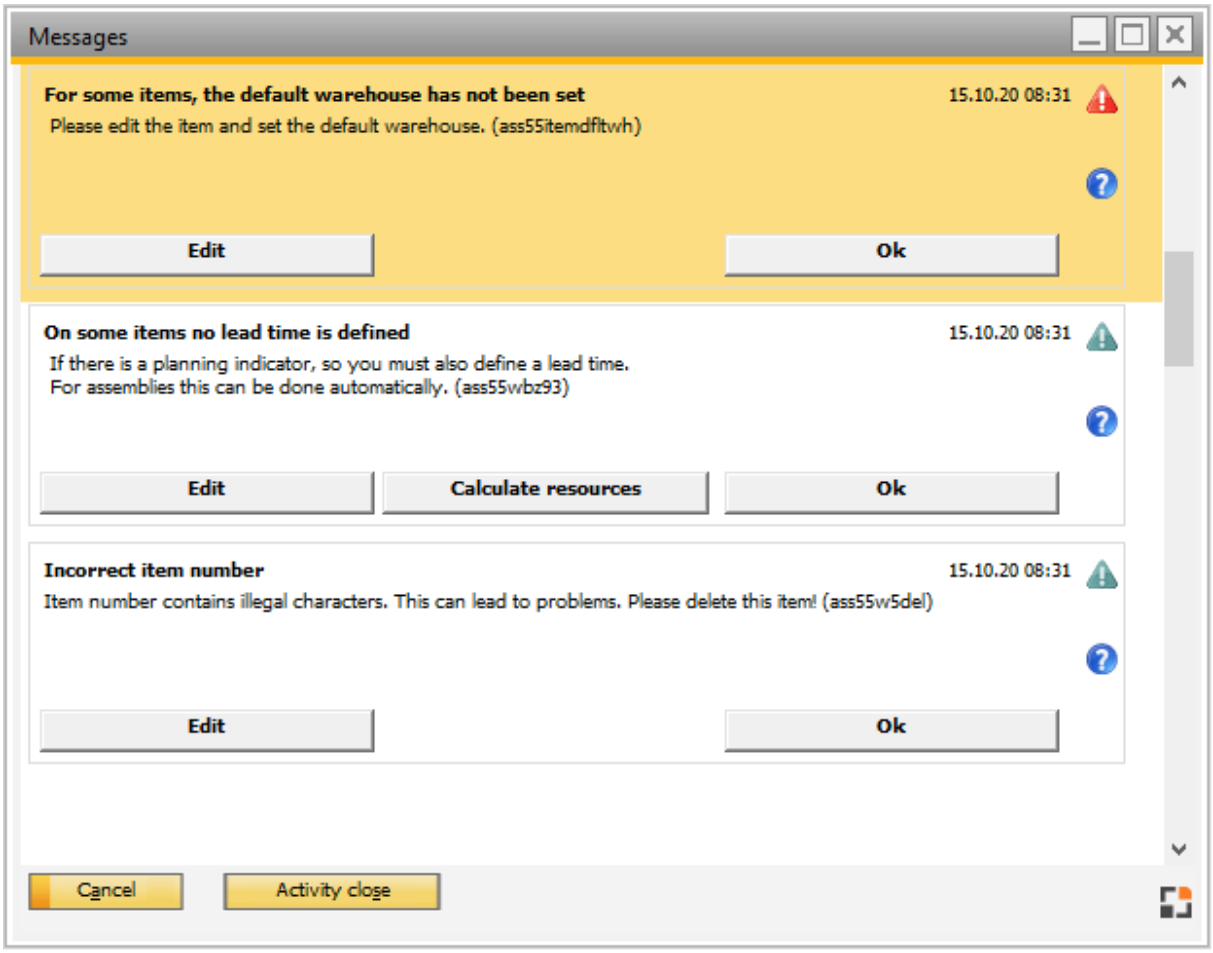
```
<eventbitmap>bmp\clipempt.bmp</eventbitmap>
<subject>item changed: <e_itemcode> from
<currentuser></subject>
<longtext>item changed: <e_itemcode> from
<currentuser> <today> <now>
itemname: <select itemname from oitm where
itemcode=N'{e_itemcode}'>
</longtext>
</new>
```

3.8.1.4 Management of many activities

The advantage of the SAP activity is that it runs over the SAP message system and thus guarantees uniform operation.
However, if many actions are generated, the SAP system is not optimized for this enhancement. A high number of mouse clicks are necessary to process an action.

Therefore, a Beas message window is available in parallel:

© 2026 Boyum IT Solutions A/S



Window system_event_browse.psr

This list presents the actions as a list, including direct editing possibility and allows the actions to be processed more quickly.

If a purely Beas action is generated, the window opens automatically as soon as a new Beas action is available to the recipient.

© 2026 Boyum IT Solutions A/S

4 Financials

The Business performance is included in this module.

Branches
Business Performance

4.1 Branches

The multi-branch solution is supported by Beas 9.0 from patch 4.
In Beas documents you can select the target warehouse. Thus, the branch is determined.

The following extensions are integrated:
- In a great number of lists a column "branch" is available which can be used for sorting or filtering. You can also create templates with different branches. ***See*** Templates.
- Stocktaking can only be created for several warehouses if they are of the same branch.
- In the personnel master you can store a branch which is only for information purposes.
- Currently there are no other rules stored. Note: The correct warehouse should be selected when posting goods for work orders.

Note: Beas does not check if the correct warehouse was used at posting. Correct WIP accounting requires all postings to be made in one branch for one work order.

As of 11/24/2014

4.2 Business Performance

Beas administrates profit centers and accounts from the financial cost centers and cost elements.

Cost Accounting for Manufacturing Organizations
Settings in Beas and SAP BusinessOne - Absorption costing
Creation of master data (step by step)
Absorption Costing - Introduction
Absorption Costing - WORKFLOW
Master data
Monthly Values
Cost Calculate
Results

© 2026 Boyum IT Solutions A/S

The module enables the creation of business performance and simulations for a forecast.
The business performance module contains the following functions:

- Administration of any number of clients or statement cycles per client
- Cost element accounting
- Cost center accounting
- Calculation of cost and surcharge rates for cost control
- Managing a budget business performance
- Each differentiated by fixed and variable or target and actual costs with different fiscal years

Note: This Module only works with 1 dimension. Please note that you cannot activate "Use multidimensional" in SAP B1 if you want to use the Business Performance module.

Business performance - Introduction to Absorption costing

Topics:

- Understand the integration of Business performance
- Transfer bookings into Business performance
- Create an expense distribution sheet

When creating master data the order below should be followed:

1. Create Profit Center in SAP Business One.
2. Create Chart of Accounts (cost elements).
3. Create Statement Cycle.
4. Create Cost Centers (without key).
5. Create Distribution Key.
6. Assign Key to Cost Centers.
7. Assign SAP Profit Center to Business performance Cost Centers.
8. Create Cost Elements and Assign Keys.
9. Assign Cost Elements to SAP Cost Elements.

4.2.1 Cost Accounting for Manufacturing Organizations

Before diving into absorption costing and reviewing how Beas Manufacturing works with it, in this chapter you can read about some fundamental concepts of cost accounting that will play a key role in guiding you through this whole set of definitions and processes. Otherwise, it could be difficult to

© 2026 Boyum IT Solutions A/S

rationalize why certain processes must take place and their importance for enhancing a company's decision-making capability by providing indispensable costing information.

Cost Accounting for Manufacturing Organizations

In a business environment, costs represent a decisive factor in the companies strive for survival and growth. If a company has a non-competitive cost structure, it will ultimately become unfeasible to operate, as its profits will fall below acceptable levels, or its prices will soar above what the market is willing to pay for its products. Additionally, even when cost structures are competitive, incorrect costs appropriation might overburden some of the companies' products while unburdening others, turning profitability analysis into a difficult and inaccurate task, and possibly leading to wrong business decisions. Therefore, understanding costs and being able to distribute them properly across the products is critical to success in a competitive environment.

If we think on retail or wholesale organizations, costs seem straightforward and are clearly identifiable in the products. Companies can easily tell for how much they purchased their goods and pricing decisions are generally not complicated, as administrative expenses are either common to the entire company or related to product divisions and therefore easily linked to the goods. In this scenario, lowering purchasing prices and reducing structural costs have a direct impact on profitability, and understanding current profits does not require much effort.

For manufacturing organizations, on the other hand, costs have a much higher degree of complexity, which arises especially from the fact that many manufacturing-related costs cannot be directly linked to a particular product. Nevertheless, instead of jumping straight into the tools we have for solving such problems and transforming complicated data into reliable and accurate costing information, let's have a look at the components and definitions of cost for manufacturing companies.

There are three categories in which manufacturing costs are normally divided:

- **Direct material:** the costs of all direct materials consumed for manufacturing a product. If we think on a machined sandblasted metal piece, the direct material costs would come from how much metal we used to produce it, whereas other materials (such as sand wasted in the sandblasting process, drill bits, and end mills) whose measuring results impossible for that piece are treated as manufacturing overhead;
- **Direct labor:** all costs associated to the workforce physically and directly involved in the process of manufacturing a certain product. This accounts for machine operators and assemblers, but not for indirect labor, such as production supervisors, maintenance technicians and quality control operators;
- **Manufacturing overhead:** all other manufacturing costs which do not fall into the categories of direct material and direct labor are manufacturing overheads. This category includes costs of

© 2026 Boyum IT Solutions A/S

indirect materials (cleaning supplies, disposable safety equipment, disposable tools, fittings and fasteners, etc.), maintenance staff, quality control staff, equipment depreciation, utilities, factory rental, property taxes on the production facilities, production managers and supervisors, and many others. Manufacturing overheads do not include, however, administrative expenses not related to production—only indirect production costs can be considered as overheads.

Although it is fairly easy to measure direct materials and direct labor for manufacturing a product, understanding how much overhead costs each product should receive is always a complicated endeavor. For example, consider a company who produces liquid chemical products. Do all chemicals require the same reaction times on reactors and have the same viscosity? Not at all, and both higher reaction times and viscosity might represent a higher burden on maintenance and cleaning activities after production, as these products could wear the reactors faster and occasionally cause clogs which can be hard to clean. Besides, if the company constantly switches between different types of products using the same production resources, more cleaning and machine preparation times might be required than when producing multiple times the same product, which also increases manufacturing overheads significantly.

Using the traditional costing method, all manufacturing overheads would be summed and divided by the amount of a particular cost driver (which are the factors responsible for generating manufacturing costs), like the number of produced units, processed kilograms, or labor hours. Then, each and every product receives a share of manufacturing overheads based on how much of that same cost driver it contributed to increase. However, considering the existing variables in real production environments, should all products receive the same share of manufacturing overheads? If we produced 100 kilograms of a very difficult to process chemical, should it receive the same costs as 100 kilograms of an easily processable chemical? When the goal is to achieve a more accurate profitability analysis, the answer is no. And this leads to our next and fundamental question: how to make sure that each product receives a fair share of the correct manufacturing overheads?

For this question, the answer comes from one of the alternative methods to appropriate manufacturing overheads to products called absorption costing, which is precisely our next topic in this article. Using absorption costing, companies can base their costs appropriation on the costs related to direct or indirect manufacturing cost centers and on how much they affected production.

See:

Absorption Costing - Setup

Absorption Costing - Introduction

Absorption Costing - WORKFLOW

Absorption Costing Report - Concept

© 2026 Boyum IT Solutions A/S

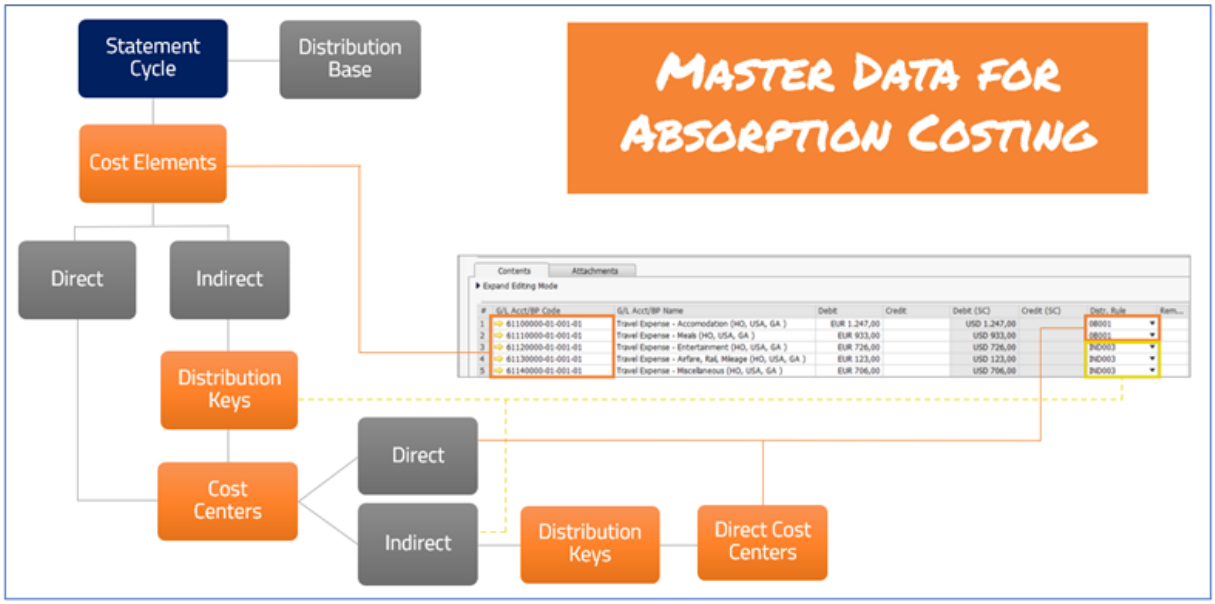
4.2.2 Settings in Beas and SAP BusinessOne - Absorption costing

Even though absorption costing is part of Beas Manufacturing, the initial settings begin in SAP Business One, where you must create all direct and indirect cost centers, cost pools (only if desired, as cost pools are not mandatory), and distribution rules. Below, you can find examples of how to set-up the required data in SAP Business One.

Absorption Costing - SAP Business One Setup

Absorption Costing - Beas Setup

Steps of setting up Beas for Absorption Costing:



See:

Absorption Costing - Concept

Absorption Costing - WORKFLOW

Absorption Costing Report - Concept

4.2.2.1 Absorption Costing - SAP Business One Setup

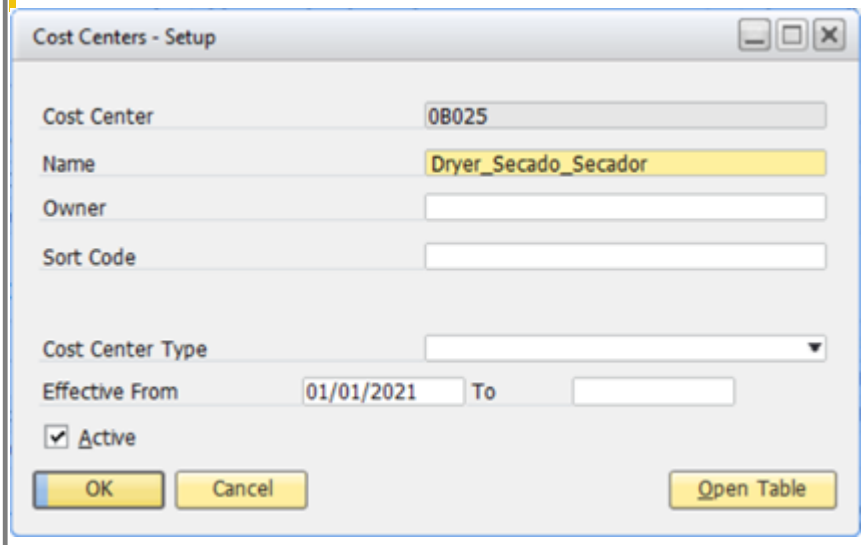
These are the settings of Absorption costing to be made in SAP Business One:

- Cost Centers setup

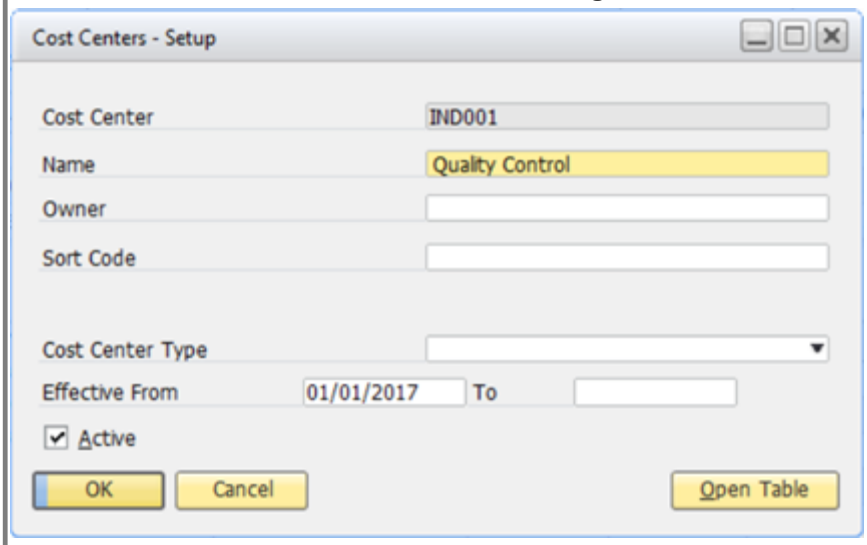
1.) Create **Cost Centers** for all production resources (direct manufacturing costs), considering both machines and labor.

© 2026 Boyum IT Solutions A/S

Important note: You cannot activate the "Use multidimensional" parameter in SAP Business One's General Settings if you want to use the Business Performance module, as it is not compatible with multiple Cost Center dimensions.

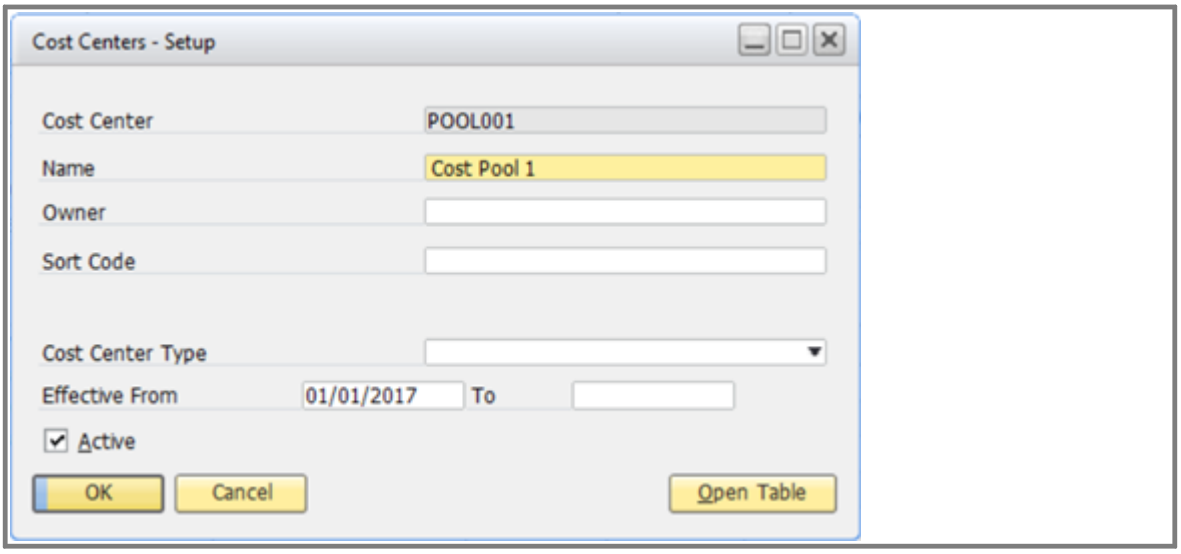


2) Create Cost Centers for indirect manufacturing costs.



3) If necessary, create **Cost Centers** to represent desired **cost pools** if you wish to book costs directly into them, although this is an optional step, as it is perfectly possible to execute absorption costing without having any cost pools. Costs related to cost pools will suffer a first distribution to direct and indirect Cost Centers before the costs from indirect Cost Centers are distributed to the direct ones.

© 2026 Boyum IT Solutions A/S

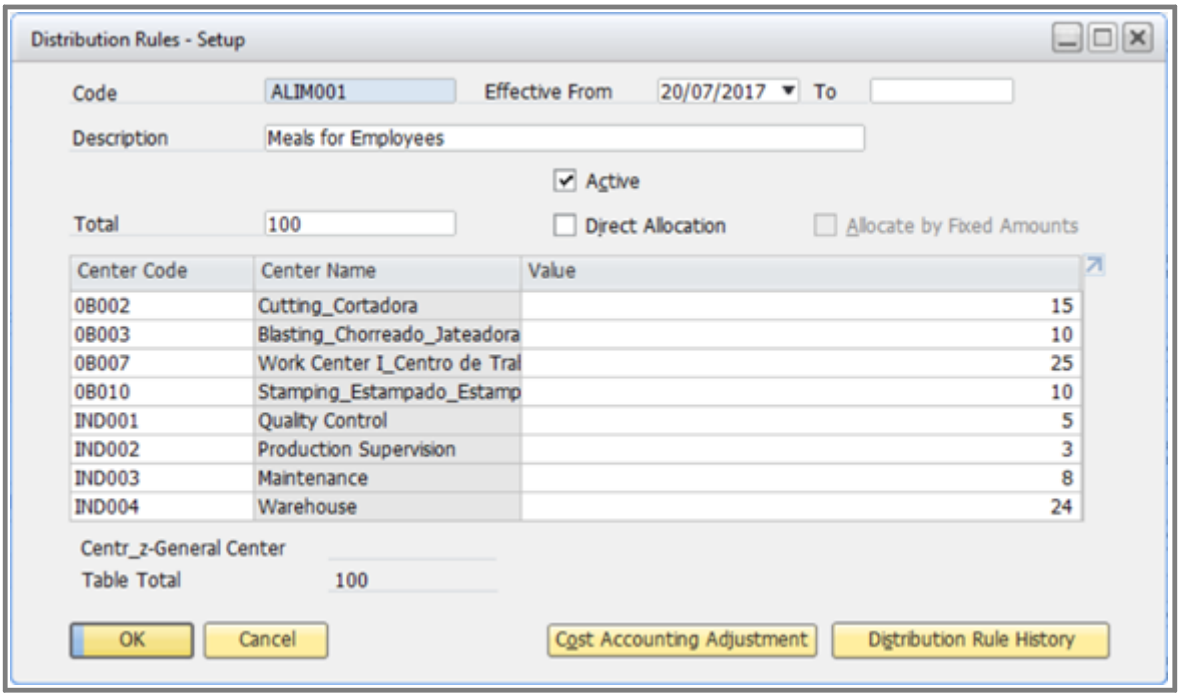


- Distribution Rules setup

Define **Distribution Rules** for costs requiring distribution amongst several Cost Centers. A typical example of cost distribution is in how to deal with meals for employees or corporate cafeteria. When all employees receive a share of a global expense, this expense affects several departments and might need to affect product costing as well. So, the first step is to split meals expense across different accounts, one related to administrative departments and one (or multiple) reflecting production department(s). Next, a Distribution Rule can be set to assign parts of these costs to each Cost Center based on a pre-defined criterion (like number of employees per department, for instance).

Important note: The absorption costing function of Beas Manufacturing is not compatible with "manual" distributions to Cost Centers (allowed by SAP Business One); so, make sure that all your documents with distributed values have a Distribution Rule assigned.

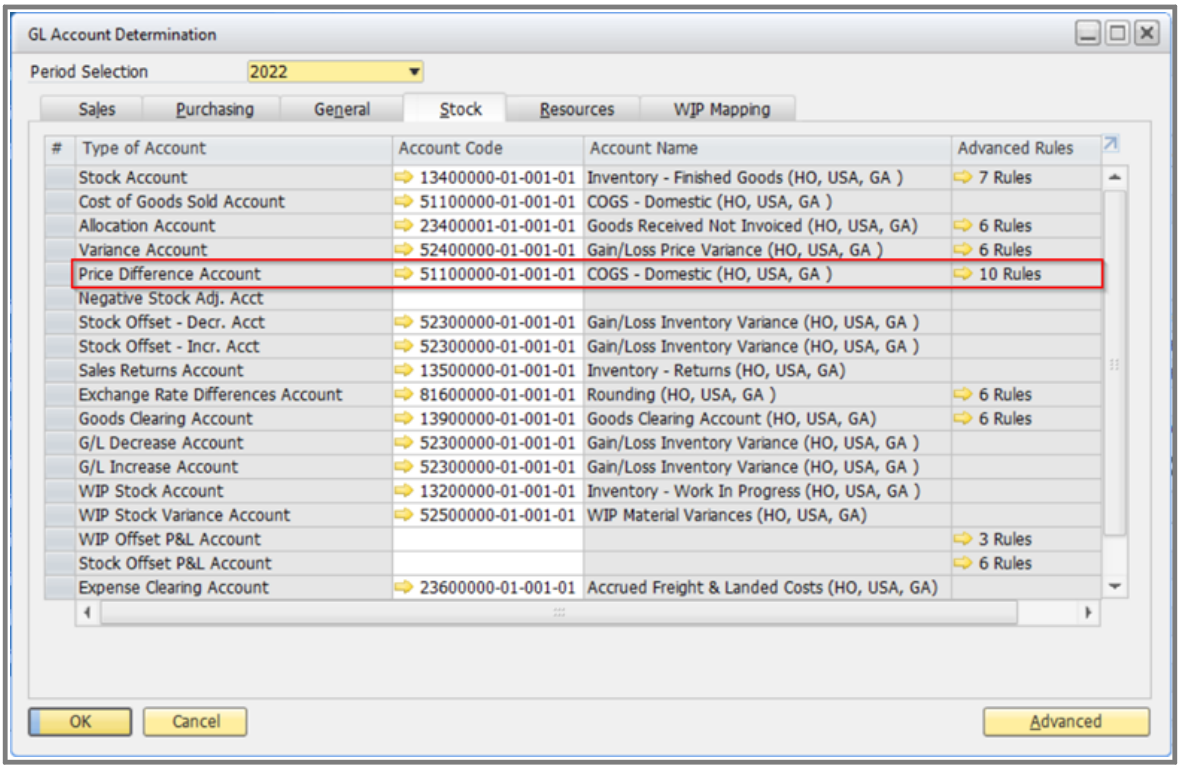
© 2026 Boyum IT Solutions A/S



- GL Account Determination setup

Configure the **Price Difference Account** to match the corresponding COGS (Cost of Goods Sold) account, using simple or advanced GL Account Determinations. The last steps of the absorption costing process generate Stock Revaluations to change the stock value of products according to the appropriated costs. However, if the products are not in stock anymore (sold during the month), COGS should be adjusted to reflect the correct costs, and SAP Business One uses the Price Difference Account to register Stock Revaluation values when the products are partially or completely out-of-stock.

© 2026 Boyum IT Solutions A/S



#	Type of Account	Account Code	Account Name	Advanced Rules
	Stock Account	13400000-01-001-01	Inventory - Finished Goods (HO, USA, GA)	7 Rules
	Cost of Goods Sold Account	51100000-01-001-01	COGS - Domestic (HO, USA, GA)	
	Allocation Account	23400001-01-001-01	Goods Received Not Invoiced (HO, USA, GA)	6 Rules
	Variance Account	52400000-01-001-01	Gain/Loss Price Variance (HO, USA, GA)	6 Rules
	Price Difference Account	51100000-01-001-01	COGS - Domestic (HO, USA, GA)	10 Rules
	Negative Stock Adj. Acct			
	Stock Offset - Decr. Acct	52300000-01-001-01	Gain/Loss Inventory Variance (HO, USA, GA)	
	Stock Offset - Incr. Acct	52300000-01-001-01	Gain/Loss Inventory Variance (HO, USA, GA)	
	Sales Returns Account	13500000-01-001-01	Inventory - Returns (HO, USA, GA)	
	Exchange Rate Differences Account	81600000-01-001-01	Rounding (HO, USA, GA)	6 Rules
	Goods Clearing Account	13900000-01-001-01	Goods Clearing Account (HO, USA, GA)	6 Rules
	G/L Decrease Account	52300000-01-001-01	Gain/Loss Inventory Variance (HO, USA, GA)	
	G/L Increase Account	52300000-01-001-01	Gain/Loss Inventory Variance (HO, USA, GA)	
	WIP Stock Account	13200000-01-001-01	Inventory - Work In Progress (HO, USA, GA)	
	WIP Stock Variance Account	52500000-01-001-01	WIP Material Variances (HO, USA, GA)	
	WIP Offset P&L Account			3 Rules
	Stock Offset P&L Account			6 Rules
	Expense Clearing Account	23600000-01-001-01	Accrued Freight & Landed Costs (HO, USA, GA)	

See Beas Manufacturing setup for Absorption costing

4.2.2.2 Absorption Costing - Beas Setup

Beas Manufacturing holds the thick part of absorption costing settings and its entire processes. Below you can find a review on how you can set-up Beas Manufacturing for executing absorption costing in your company.

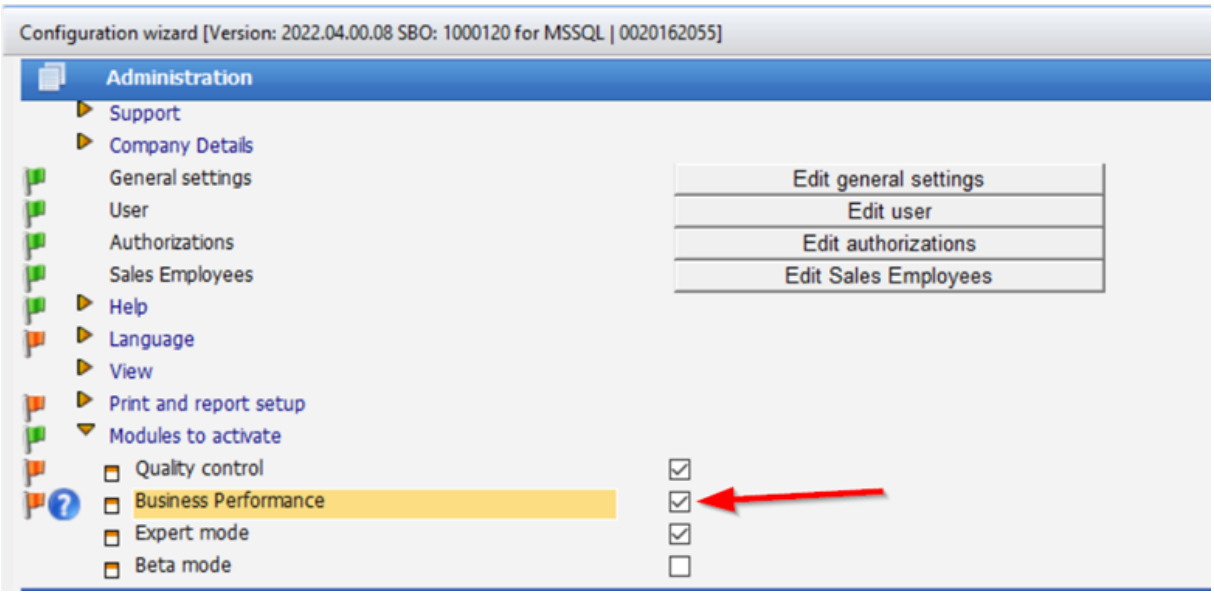
Configuration wizard setup
Statement Cycle setup
Cost Centers setup
Distribution Keys Setup
Cost Elements setup
Cost Element assignment setup
Resources setup

See SAP Business One setup

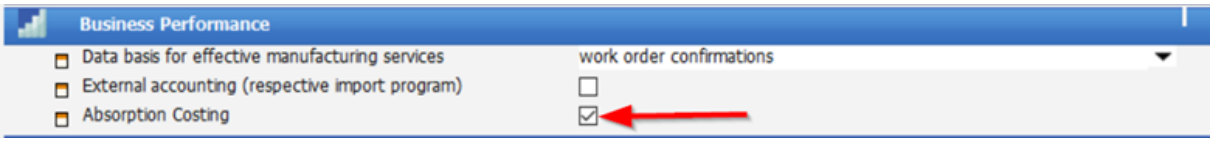
© 2026 Boyum IT Solutions A/S

4.2.2.2.1 Configuration wizard setup

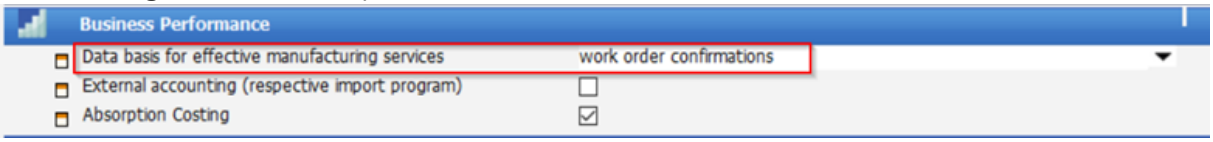
Activate the **Business Performance module**. Business Performance, a separately licensed module for Beas Manufacturing, is the module which contains the absorption costing functionality. Activating Business Performance is the first step to use absorption costing in a company:



Activate the **absorption costing functionality:**



Set the "**Data basis for effective manufacturing services**" as "**work order confirmations**". This parameter ensures that Beas Manufacturing distribute manufacturing costs according to production data (coming from Time Receipts).



See other Beas settings for Absorption Costing

back to Absorption costing settings (SAP and Beas)

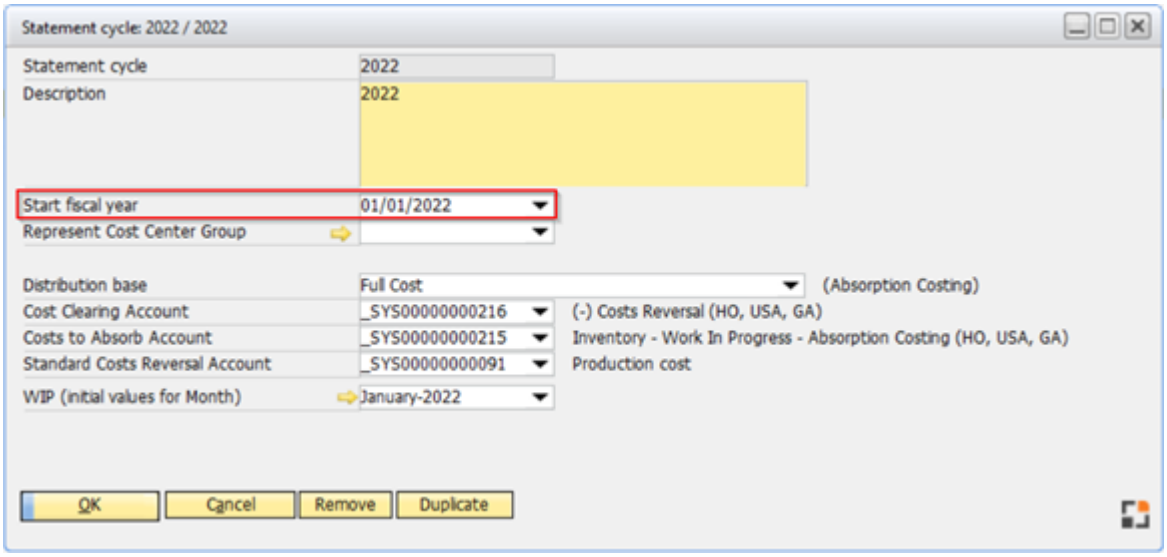
4.2.2.2.2 Statement Cycle setup

The **Statement Cycles** are a mandatory master data for Business Performance and have a similar logic to Posting Periods in SAP, except that they are always annual and, when working on multi-branch databases, have to be branch-specific. Here is how to create them.

© 2026 Boyum IT Solutions A/S

NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

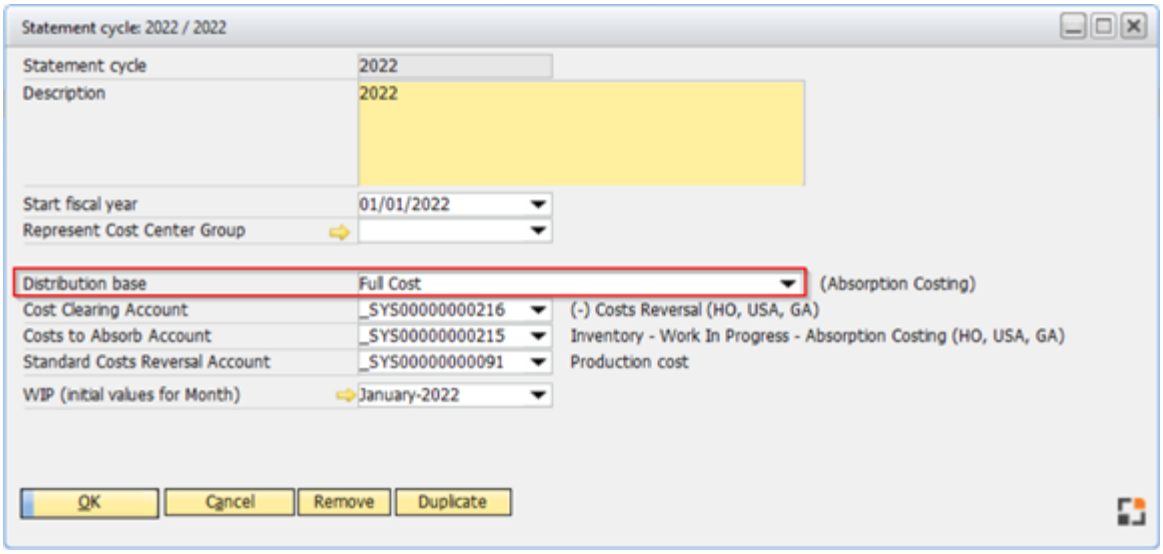
1) Create a **Statement Cycle**, define starting date for the year and set the related branch (only if using multi-branch):



Window bab_abrid_edit.psr

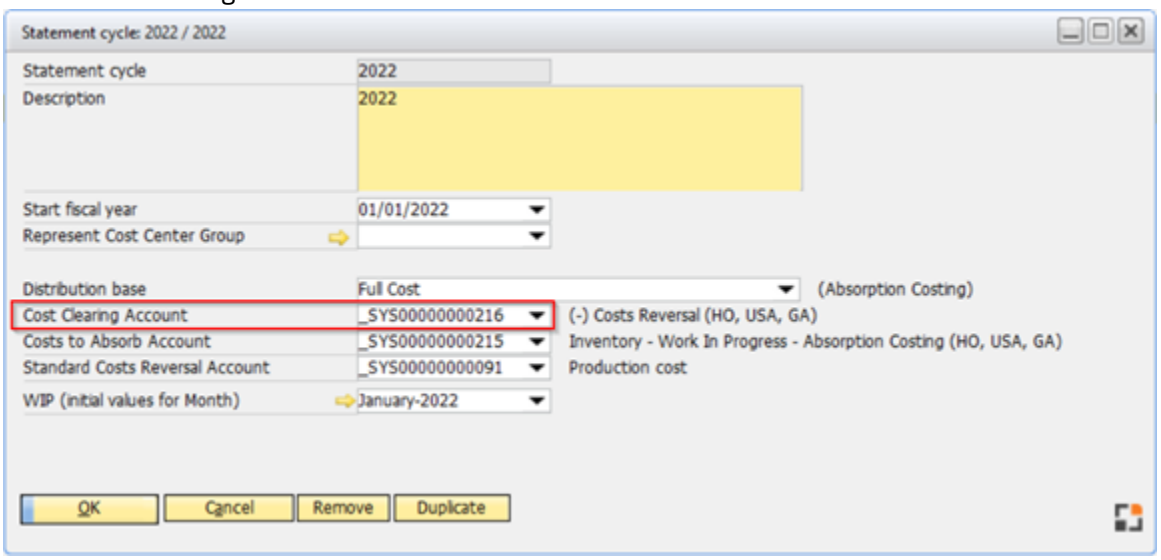
2) Set the **Distribution Base** for absorption costing. The Distribution Base defines how the costs coming from direct Cost Centers (after all distributions are processed) should be carried over into the manufactured products. Distributions can happen either based on production hours, on marginal costs, or on full costs. It is recommended to always use marginal or full costs to base absorption costing distribution, as they represent the multiplication between production hours and the resource cost rates (which are set to represent the average costs per minute or hour for each machine or work center). If only using hours, products going through inexpensive resources for a large number of hours will receive more costs than products going through very expensive resources for a small number of hours.

© 2026 Boyum IT Solutions A/S



Window bab_abrid_edit.psr

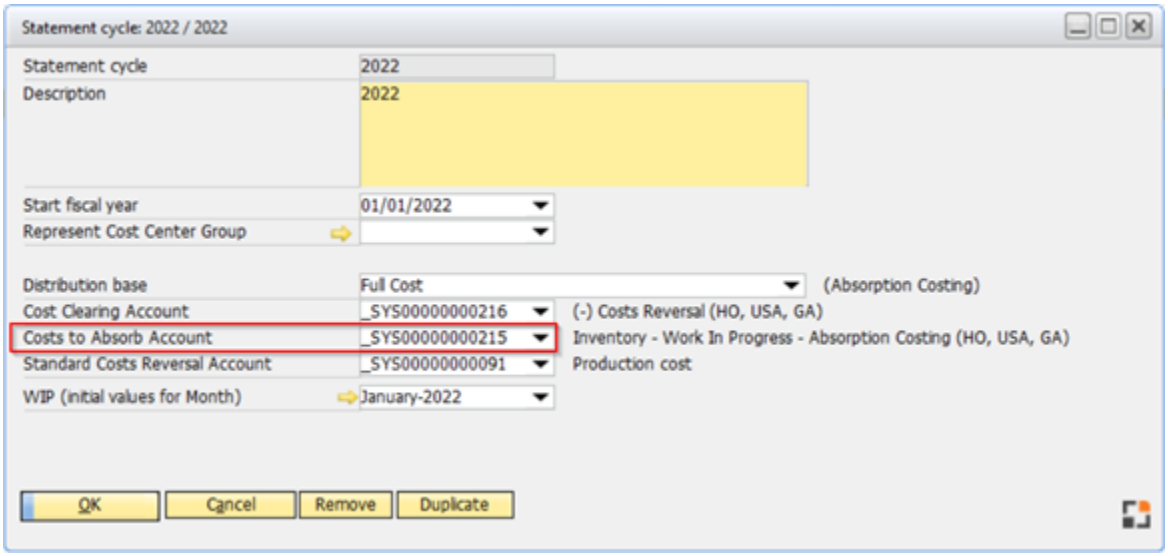
3) Set the **Cost Clearing Account** for absorption costing. This is a contra account to all manufacturing expenses (except direct materials, as direct materials are always directly appropriated into the manufactured products and are never part of an absorption costing process), turning their total amount to 0 after executing the first absorption costing step, called “Booking Cost Transfer”. You can create this account in your Chart of Accounts just below the accounts related to direct labor and manufacturing overheads. This account will receive a credit value.



Window bab_abrid_edit.psr

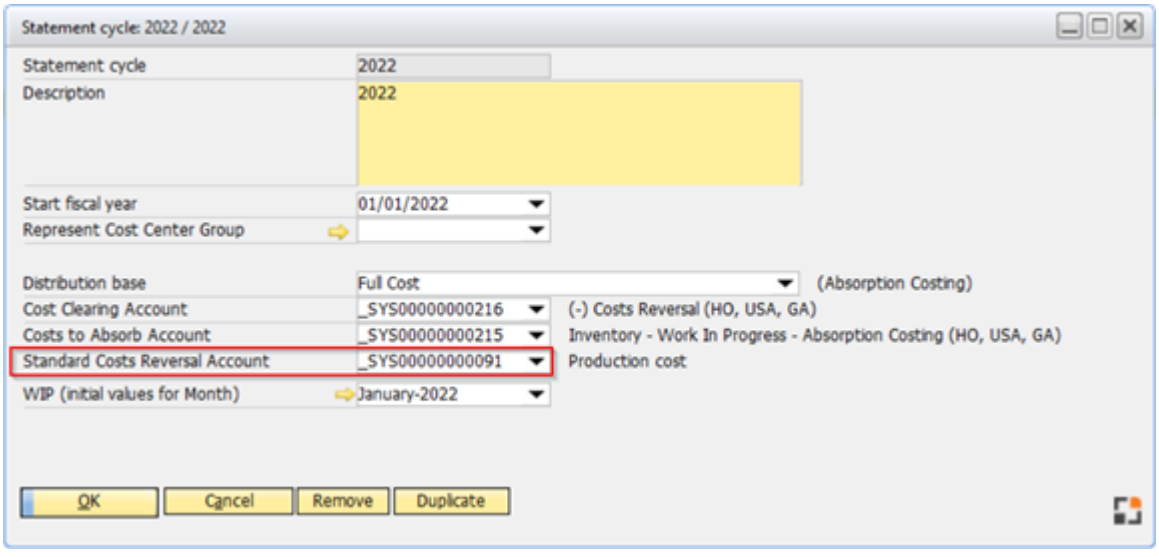
4) Set the **Costs to Absorb Account** for absorption costing. This asset account offsets the Cost Clearing Account by receiving a debit value during the first absorption costing step, called “Booking Cost Transfer”, holding the total amount of costs to absorb during absorption costing execution. Its nature is similar to a work-in-progress account, as it represents inventory-to-be.

© 2026 Boyum IT Solutions A/S



Window bab_abrid_edit.psr

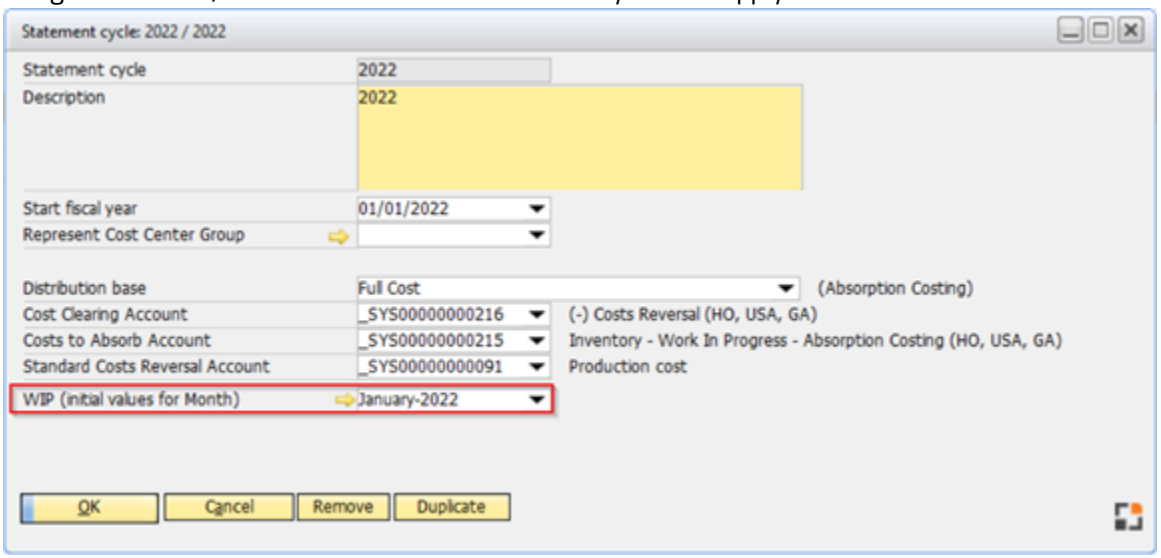
5) Set the **Standard Costs Reversal Account**. Throughout the month, when manufacturing goods, Beas assigns manufacturing costs to products according to the cost rates of resources, which are set in a way to represent historical average costs per hour or minute but will never match exactly the actual manufacturing expenses. While helpful in minimizing differences between before and after absorption product costing, these costs cannot remain on the products after absorption costing, or the products will have duplicated costs (one calculated based on the resource rates and another coming from absorption costing). This field defines in which account the reverted values coming from costs calculated based on resource costs rates should be booked and is a contra account to the accounts set in the Beas Calculation Schemas or Production Cost Elements.



Window bab_abrid_edit.psr

© 2026 Boyum IT Solutions A/S

6) If there are open values from previous absorption costing processes before implementing Beas Manufacturing, you can set the initial values under "**WIP (initial values for Month)**" (by clicking on the golden arrow) and define for which month they should apply.

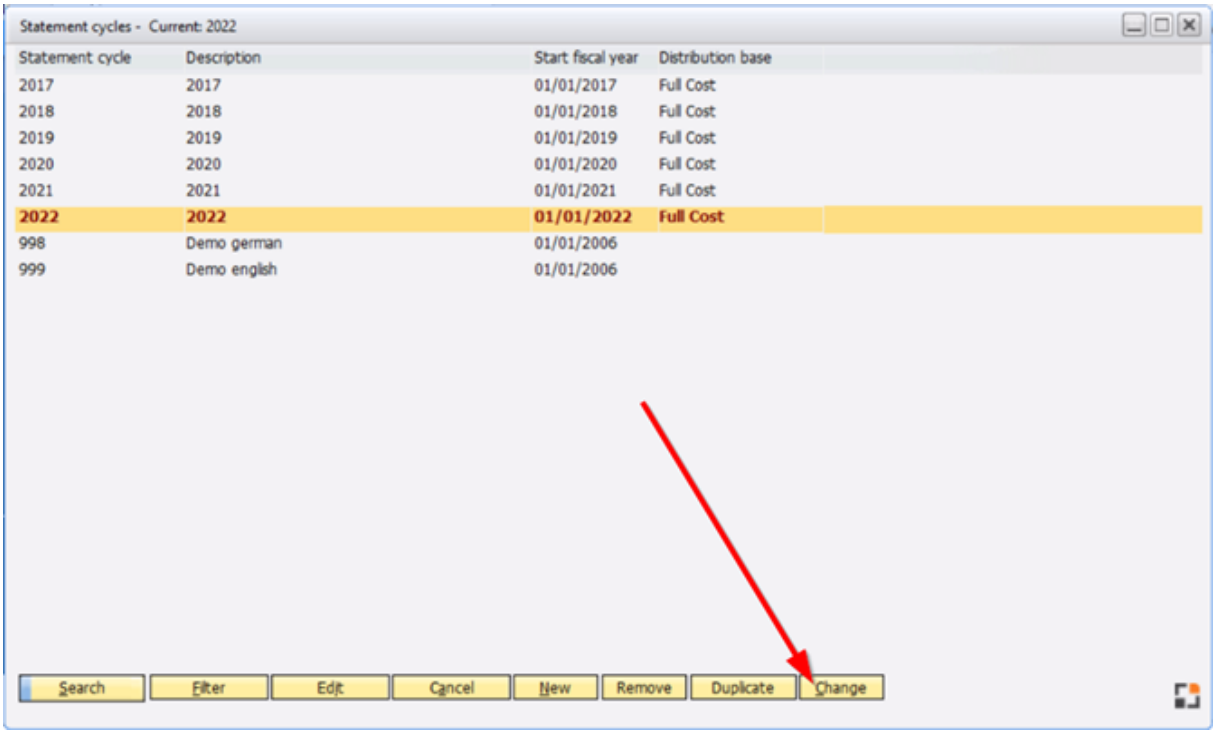


Window bab_abrid_edit.psr

7) The last step, after creating the Statement Cycles, is to choose in which one you want to work, as all master data and processes belong exclusively to the selected Statement Cycle. When not using a multi-branch database, you only need to create one Statement Cycle per year and choose it just after the year starts. If using multi-branch, you will need to configure master data and perform absorption costing for each branch individually and choose the Statement Cycle corresponding to

© 2026 Boyum IT Solutions A/S

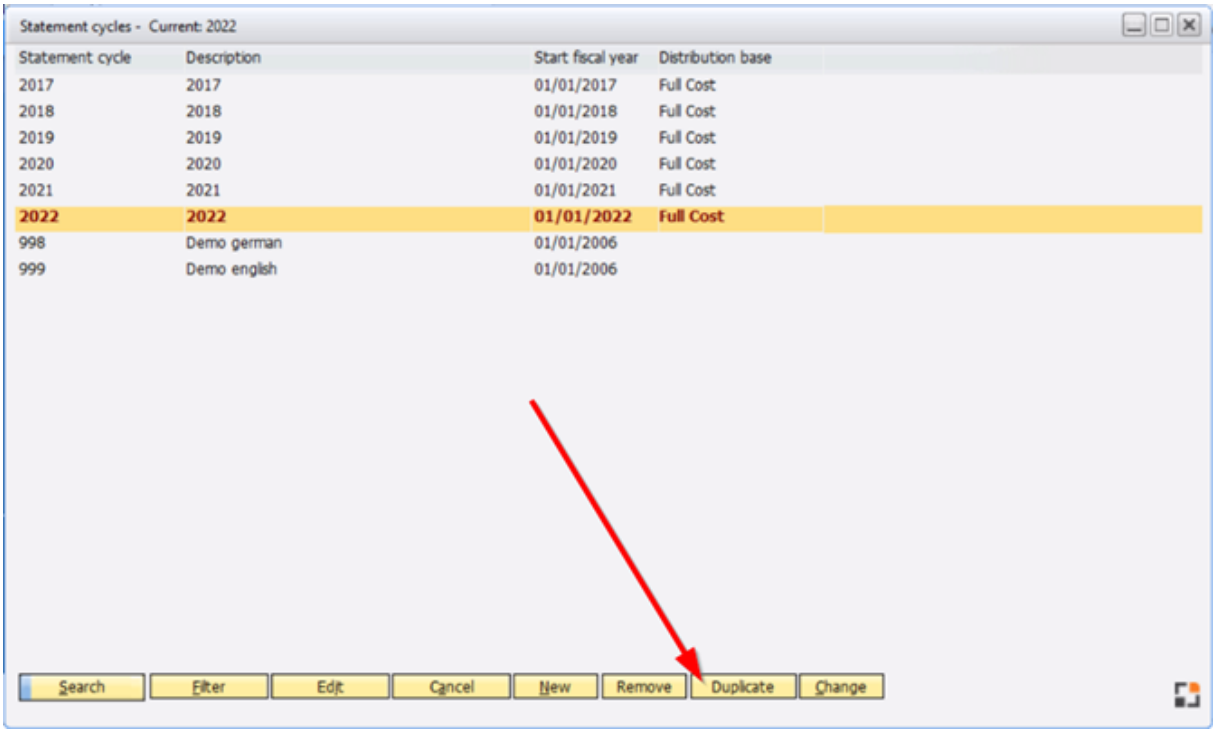
the branch in which you want to work.



Window bab_abrid_browse.psr

Important note: As Business Performance master data is related to Statement Cycles, whenever you create a new Statement Cycle by clicking on the "**New**" button, it will come empty. If you have already defined another Statement Cycle previously and just want to create a new period for it (maintaining the same master data), you can choose the previous Statement Cycle and click on the "**Duplicate**" button instead. This will duplicate all master data related to the Statement Cycle to create a new one.

© 2026 Boyum IT Solutions A/S



Window bab_abrid_browse.psr

See other Beas settings for Absorption Costing

back to Absorption costing settings (SAP and Beas)

4.2.2.2.3 Cost Centers setup

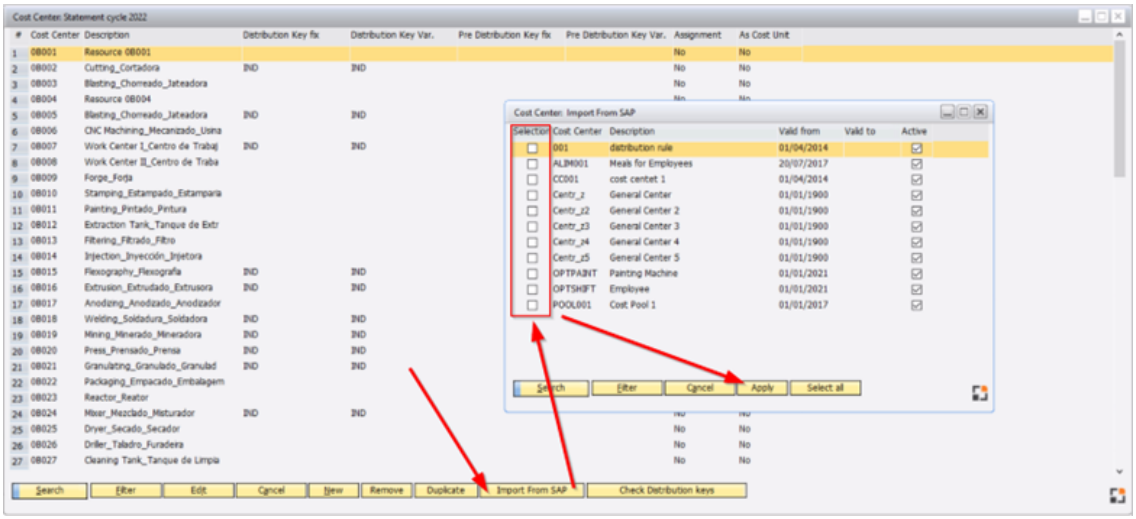
Before coming into this part, all your direct and indirect manufacturing Cost Centers should already exist in SAP Business One. If not, make sure you create them there first, as you can just import them in this step to make your progress faster. However, even though you can import SAP's Cost Centers into Beas Cost Centers, they are not directly connected, and you can have different Cost Centers in both places (which is not a recommended practice for manufacturing-related Cost Centers, as your efforts will be higher for analyzing data and for connecting SAP's transactions to Beas Financial Data). One of the few reasons for having Cost Centers only in Beas is for handling fictional Cost Centers, like the ones representing cost pools when they're not having direct financial bookings. In such a situation, the values coming from indirect Cost Centers could have a first pre-distribution into cost pools, then a further distribution into direct Cost Centers. Here is how to create Cost Centers.

Important note: Creating Cost Centers in SAP Business One does not create Cost Centers in Beas, as well as creating Cost Centers in Beas does not create Cost Centers in SAP Business One. Keep in mind that there is no automatic synchronization and data must be manually created on both sides (or imported from SAP Business One into Beas).

© 2026 Boyum IT Solutions A/S

NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

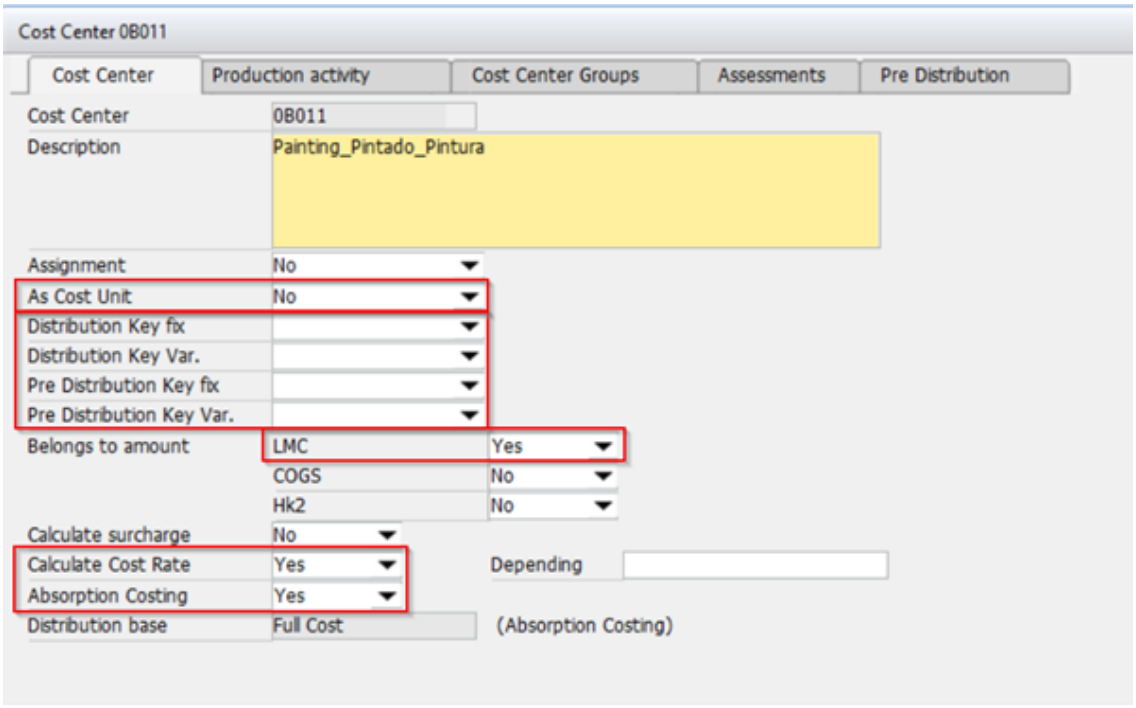
1) **Import direct and indirect Cost Centers** from SAP Business One. Although importing the Cost Centers is an optional step, if you skip it, you'll have to create all your Cost Centers manually. Remember to only import Cost Centers directly or indirectly related to production; administrative Cost Centers must not be imported, as their value should not be part of absorption costing (for absorption costing, only direct labor and manufacturing overheads are relevant).



Window bab_kst_browse.psr

2) Configure **direct Cost Centers**. Direct Cost Centers must not have Distribution or Pre-Distribution Keys assigned to them (unless in very specific circumstances, explained later in this guide), and require a set of specific configurations showed below.

© 2026 Boyum IT Solutions A/S



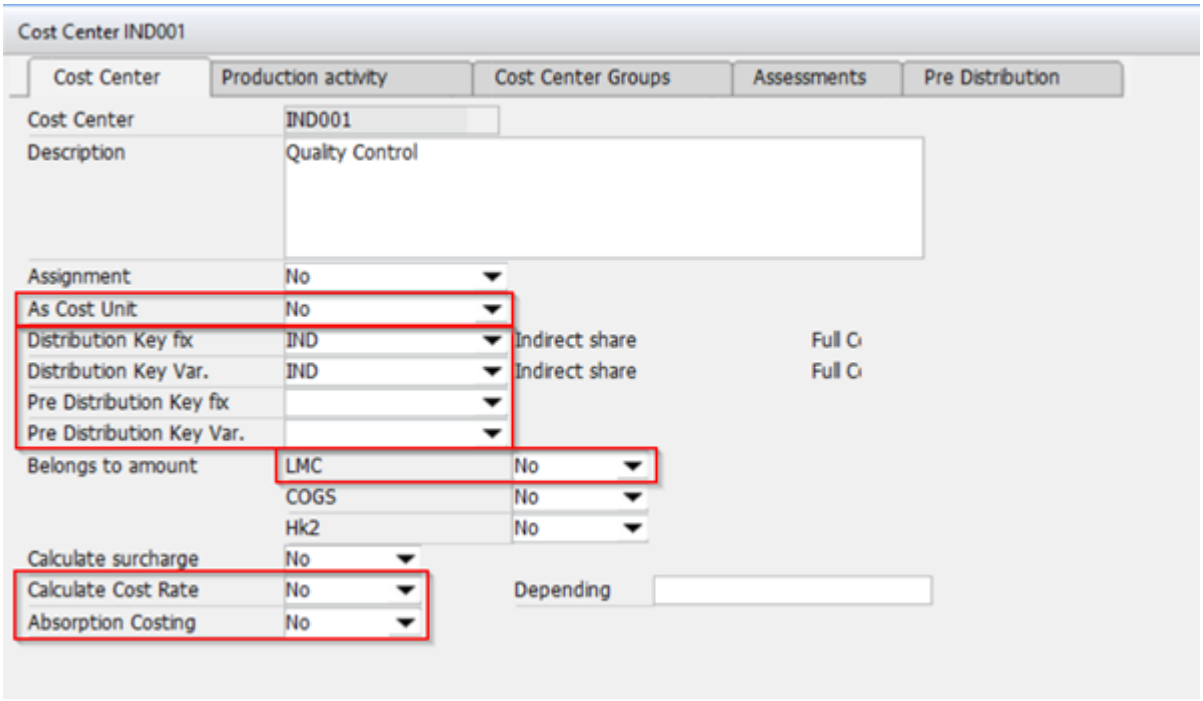
Window bab_kst_edit.psr

3) Configure indirect Cost Centers. Indirect Cost Centers require either Distribution or Pre-Distribution Keys (Pre-Distribution should only be used in cases like having cost pools, as Pre-Distribution runs prior to Distribution, moving the costs from cost pools to other indirect Cost Centers before they are carried over into the direct Cost Centers - If this is not the case, leave all Pre-Distributions empty). The general recommendation is to always use the same Distribution Key in both fields for Distribution or Pre-Distribution ("fix" and "var."), although you could use different Distribution Keys for handling different ways of distributing costs if they come from Cost Elements set to contain variable or fixed costs. Indirect Cost Centers must also have the parameters shown below.

Important note: Distribution Keys are explained in the next topic of this guide. You will need to create Distribution Keys before you can complete the setup of indirect Cost Centers. Besides, you must choose between using Pre-Distribution or Distribution Keys, as it is impossible to set both to

© 2026 Boyum IT Solutions A/S

the same Cost Centers.



Window bab_kst_edit.psr

See other Beas settings for Absorption Costing

back to Absorption costing settings (SAP and Beas)

4.2.2.2.4 Distribution Keys Setup

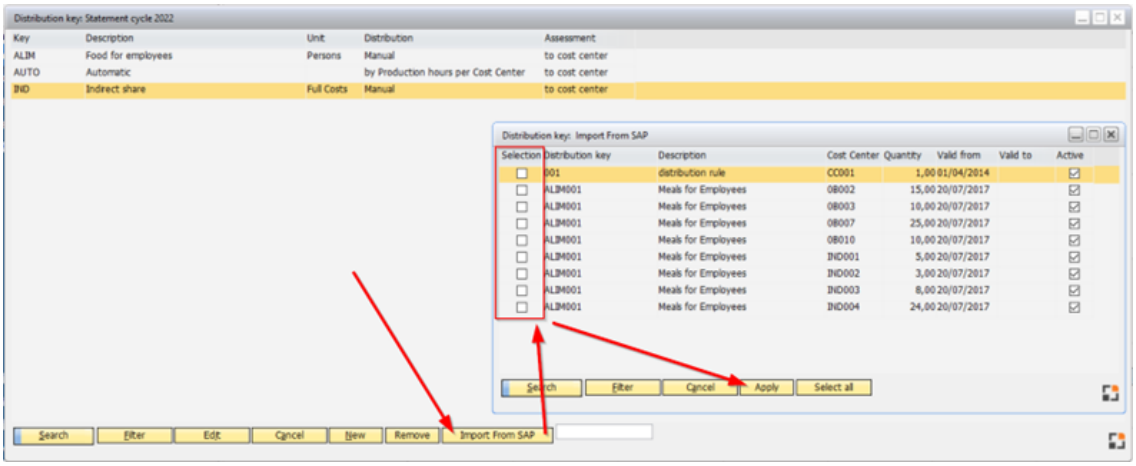
If you use or want to use Distribution Rules in SAP Business One transactions, you'll probably also want to create your Distribution Rules in SAP Business One first before creating Beas Distribution Keys, to easier the creation process and to ensure a common cost accounting in between the two systems (which, by the way, is not mandatory if you intend to have different cost accounting for the financial department, but keep in mind that Beas will always distribute values according to its own Distribution Keys, no matter which Distribution Rules you select in SAP Business One transactions). Nevertheless, if your only intention is to distribute costs from indirect Cost Centers to direct Cost Centers (and not from, let's say, a Journal Entry into multiple Cost Centers), you don't need to create Distribution Rules in SAP Business One, as you will only use Beas Distribution Keys.

NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

1) **Import Distribution Rules** from SAP Business One. As explained in this topic's introduction, this step is only relevant if you plan to use Distribution Rules in SAP Business One transactions. If not, you can just create the required Distribution Keys in Beas and don't need

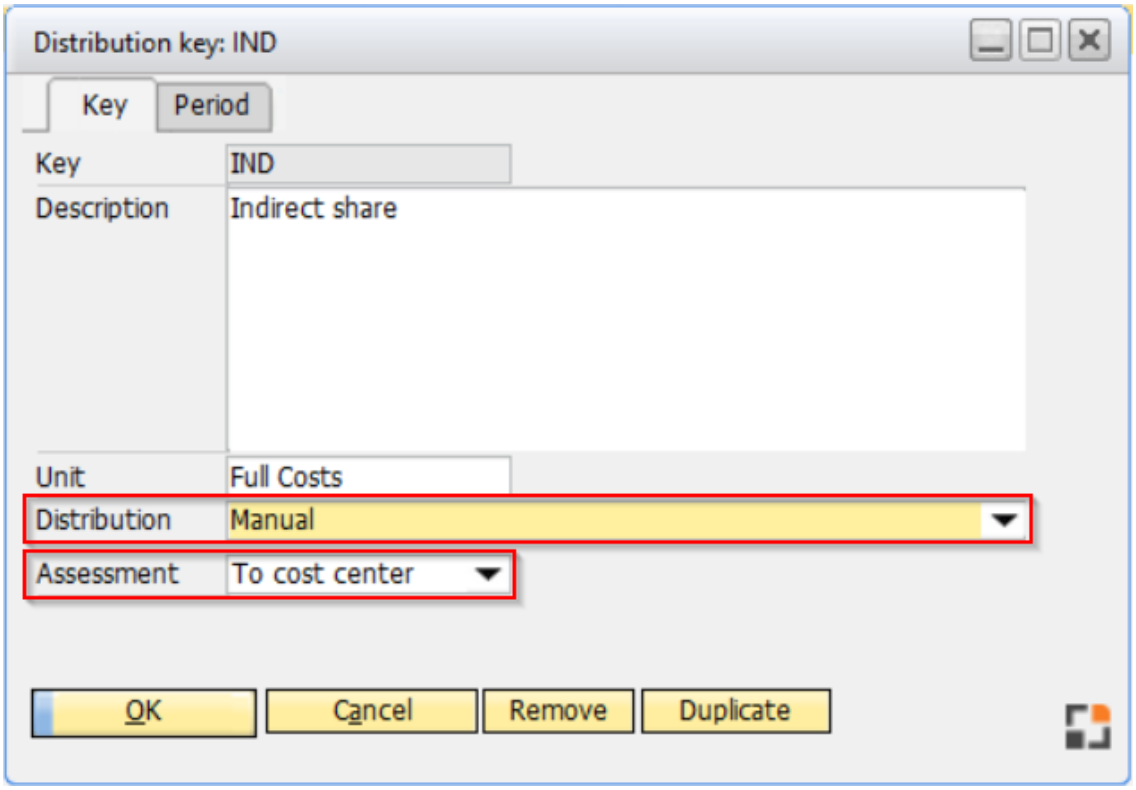
© 2026 Boyum IT Solutions A/S

to have them reflected in SAP Business One. Additionally, this step is only valid for the first time that you create your Distribution Keys. After the first time, a double effort will be required to maintain Distribution Rules and Distribution Keys in both sides, as Beas allows Distribution Keys to have month-specific distribution criteria and SAP Business One does not, requiring you to create a new Distribution Rule if you want to change distribution criteria keeping historical data.



Window bab_vgr_browse.psr

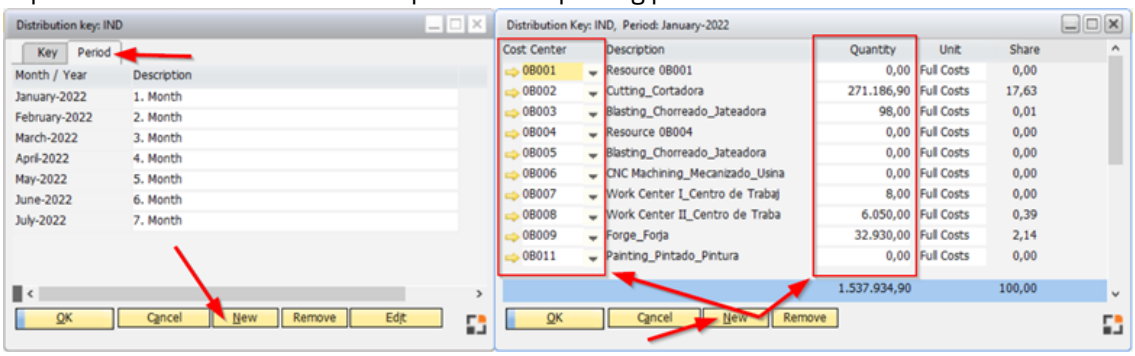
2) Create or edit **Distribution Keys**. When creating a new Distribution Key or editing an imported one, the "Distribution" and "Assessment" fields must be set as shown below.



© 2026 Boyum IT Solutions A/S

Window bab_vgr_edit.psr

3) Define **distribution per period**. After the initial settings, you must set how distribution will happen for each month of the year (or you can choose "STD" if the distribution should be the same for all months). You are free to set the distribution basis according to what makes more sense for your Cost Centers, and Beas will calculate the corresponding proportion (field "Share"). For example, if you wish to distribute energy costs to the direct Cost Centers representing your machines, you can use kW consumed by each one of them as distribution base. However, if you don't know which criterion fits you best, or don't want to create multiple criteria to avoid overloading your team with further maintenance during the following months, you can base your distribution on the amount of marginal/full costs generated by each resource, which will normally result in a fair appropriation, as these costs come from cost rates including all costs related to the resources. This strategy will be explained in more details in the topic about importing production activities.



See other Beas settings for Absorption Costing

back to Absorption costing settings (SAP and Beas)

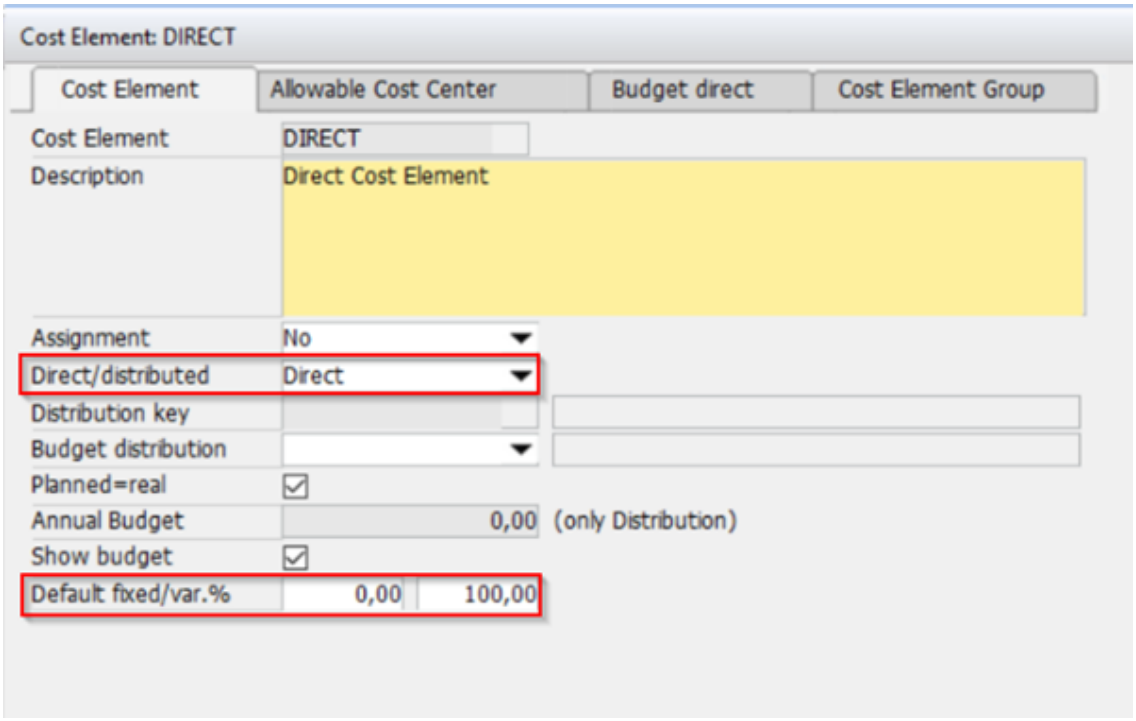
4.2.2.2.5 Cost Elements setup

Cost Elements are the link that holds together SAP Business One Chart of Accounts and Beas Manufacturing Business Performance. Using Cost Elements, you can define which accounts you want to be part of an absorption costing process and set criteria for distributing their values into multiple Cost Centers. There is no option to import Cost Elements, and it is recommended to create as minimum Cost Elements as possible. As a general rule, you need a single Cost Element for all non-distributed accounts and one Cost Element for each account that requires specific distributions using Distribution Keys. Nevertheless, when creating new Cost Elements, you have the option to choose a Chart of Accounts' account from the drop-down for its ID; this makes the assignment process (covered in this guide's next topic) easier, but in overall adds unnecessary extra complications to the process and increase maintenance burdens in the long run.

© 2026 Boyum IT Solutions A/S

NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

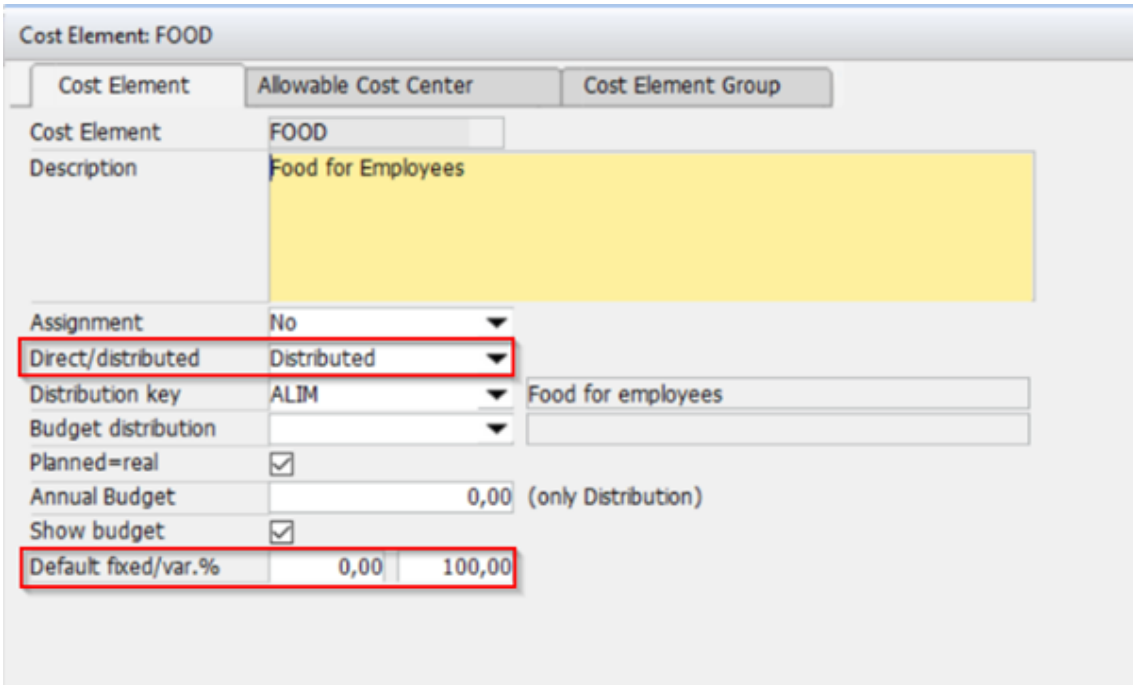
1) Create **Cost Elements** for non-distributed accounts. If you're planning to assign this Cost Element to accounts directly related to particular Cost Centers (not Distribution Rules), you need no more than the settings showed below.



Window bab_ka_edit.psr

2) If needed, create **Cost Elements** for distributed accounts. This step is only required in case you're planning to assign this Cost Element to accounts related to Distribution Rules instead of Cost Centers. Examples for this, as explained before, could come from transactions related to meals for employees or energy for the factory, which are expenses that hold costs for multiple Cost Centers. You will need to set the Cost Element as "Distributed" and define the corresponding Distribution Key (as explained before, Beas will not use Distribution Rules from SAP Business One and will follow its own rules for distributing values—if you wish both places to have the same distributions, you must replicate Distribution Rules as Distribution Keys).

© 2026 Boyum IT Solutions A/S

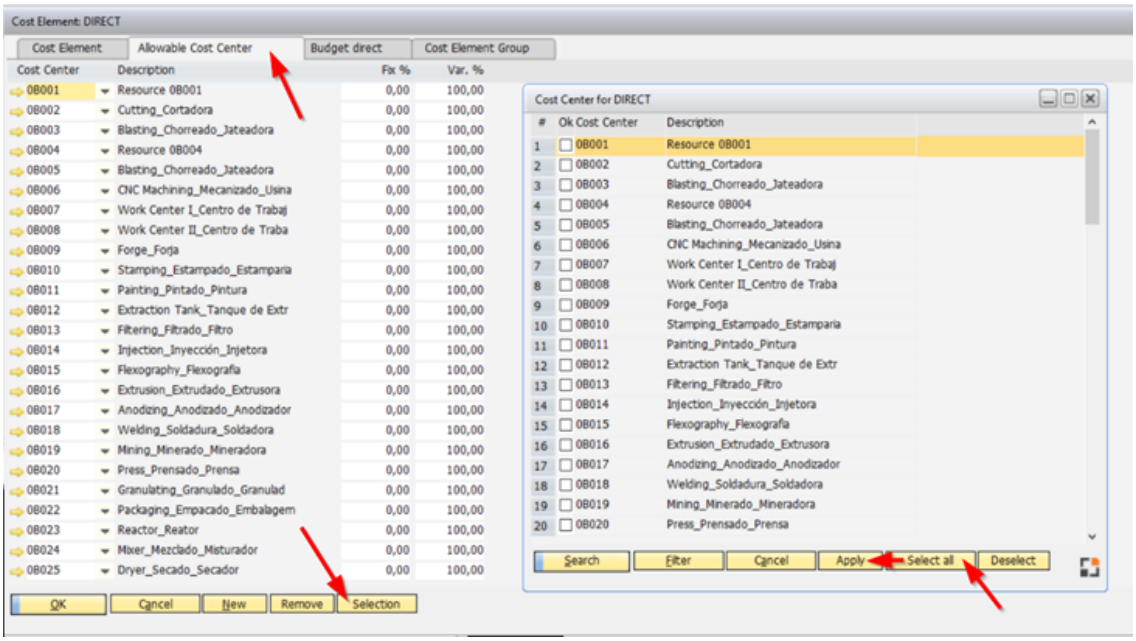


Window bab_ka_edit.psr

3) Set **Allowable Cost Centers** for all Cost Elements (individually). Although you can choose specific Cost Centers as allowed to receive values from a particular Cost Element, the general recommendation is to always set all Cost Centers as allowed, or some financial transactions might not be imported into Beas Business Performance for absorption costing if the Cost Center to which they are linked isn't allowed (and you will probably want all manufacturing costs' transactions correctly imported). The easiest way is to press the "**Selection**" button, then "**Select all**" and "**Apply**", which will apply all Cost Centers as allowed for the Cost Element. The "Fix %" and "Var. %" come from the "Default fixed/var.%" set in the Cost Element and are only useful when you define different Distribution Keys for fixed and variable costs (and this is not a normal recommendation, so you can just set all Cost Elements as 100% variable costs). Without specific Distributions Rules for fixed and variable costs, the calculated

© 2026 Boyum IT Solutions A/S

values will be exactly the same regardless of the proportions defined in these fields.



See other Beas settings for Absorption Costing

back to Absorption costing settings (SAP and Beas)

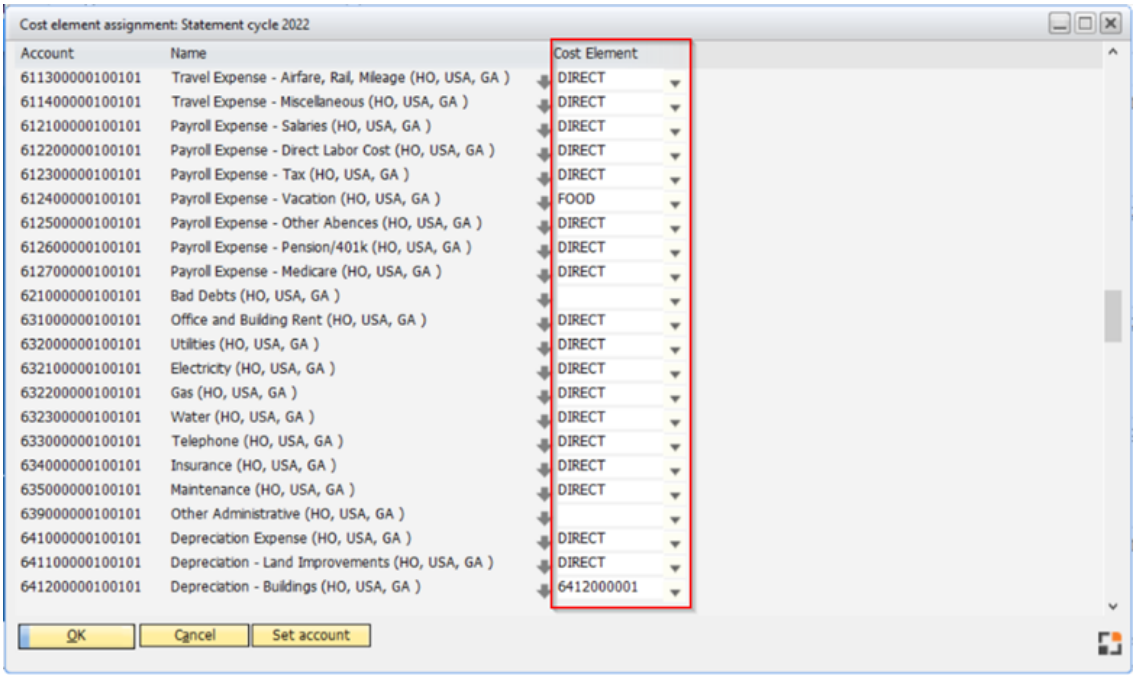
4.2.2.2.6 Cost Element assignment setup

The **Assignment** is the process in which you effectively choose which accounts should be part of Beas absorption costing, as only transactions coming from accounts linked to Cost Elements will be imported into Business Performance's financial data (covered later in this guide). Remember that you should not select any account related to administrative expenses, as only manufacturing-related costs should base absorption costing.

1) Link Cost Elements to the accounts you want as part of the absorption costing process. If you have created the Cost Elements with the same IDs as the accounts' IDs, you can press **"Set**

© 2026 Boyum IT Solutions A/S

Account" for an automatic assignment.



Window bab_konto_kstst_edit.psr

See other Beas settings for Absorption Costing

back to Absorption costing settings (SAP and Beas)

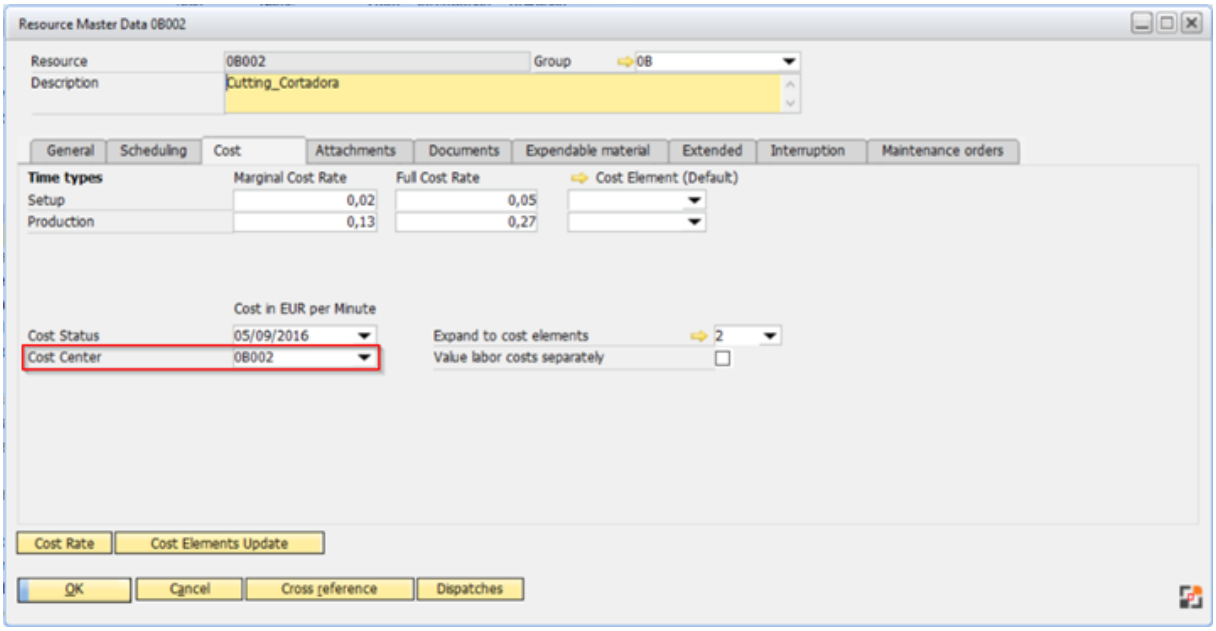
4.2.2.2.7 Resources setup

For Beas to allocate the correct Cost Centers to the Time Receipts, it is necessary to set the corresponding direct Cost Center to each resource, as well as define, in the Configuration Wizard that Cost Centers must be read from Resources. Ideally, each resource should have its own direct Cost Center (unless the resource belongs to a group of similar resources sharing the same costs), since Beas will suggest new cost rates for each Cost Center after running absorption costing (and you can easily update the resources' cost rates based on the latest absorption costing executing using Data Integration Hub).

NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

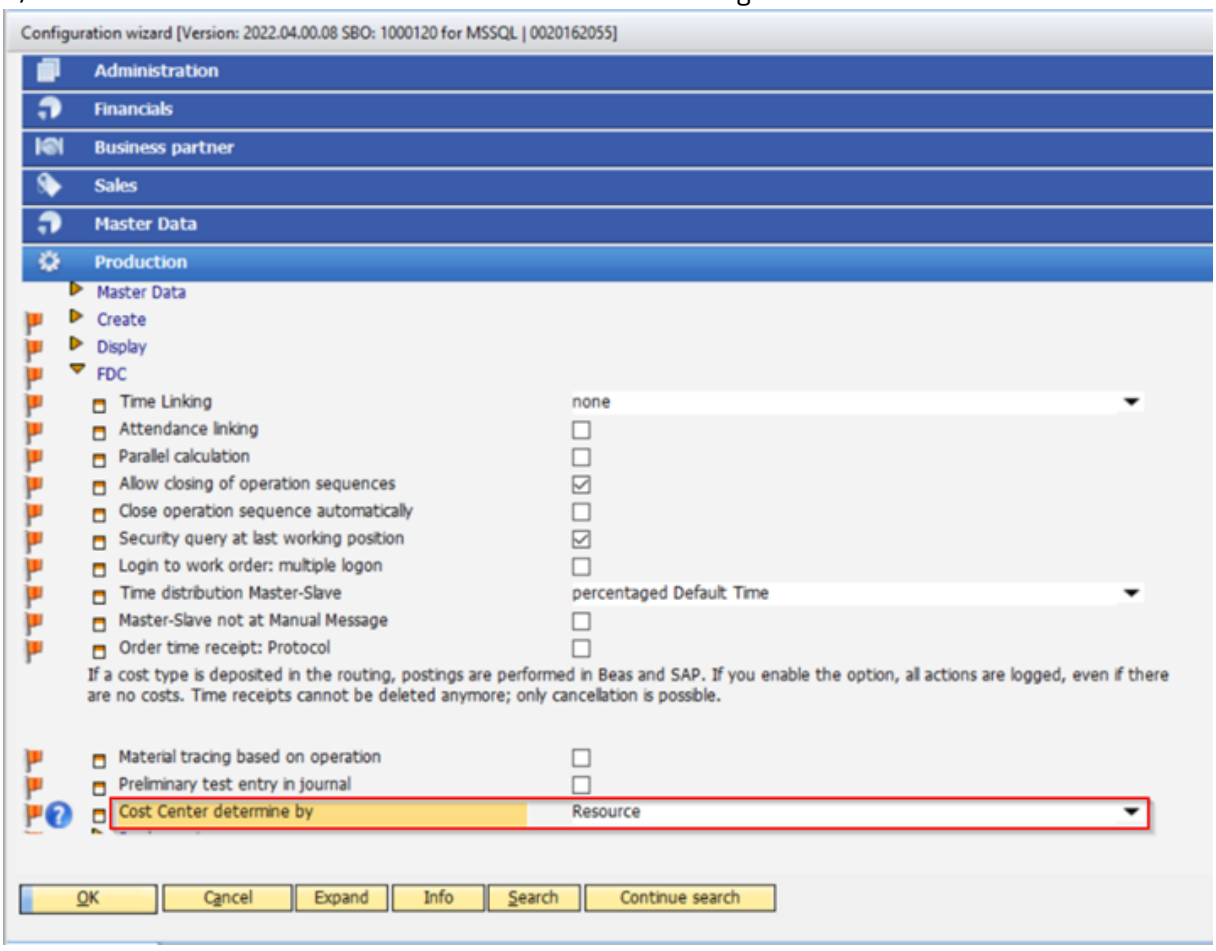
1) Choose the corresponding Cost Center in the resources master data.

© 2026 Boyum IT Solutions A/S



Window stamm_arbplatz_edit.psr

2) Set Beas to read Cost Centers from Resources in the Configuration Wizard:



© 2026 Boyum IT Solutions A/S

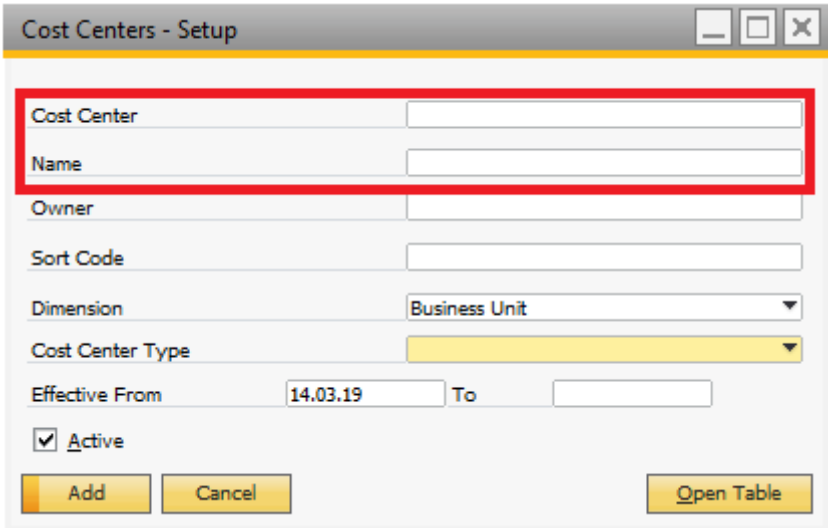
See other Beas settings for Absorption Costing

back to Absorption costing settings (SAP and Beas)

4.2.3 Creation of master data (step by step)

When creating the master data, the order below should be followed:

Create a Cost Center in SAP Business One

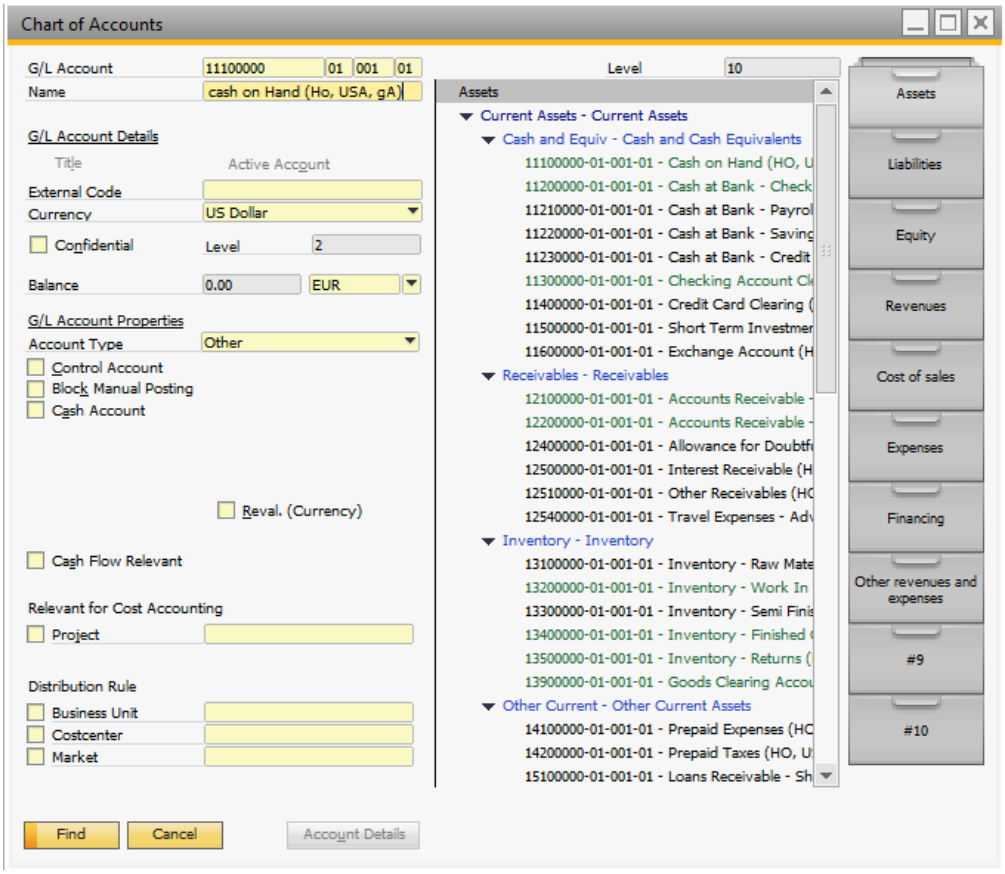


Window beasgui_sbo.psr

Create Chart of Accounts (cost elements)

PATH: Financials > Chart of Accounts.

© 2026 Boyum IT Solutions A/S

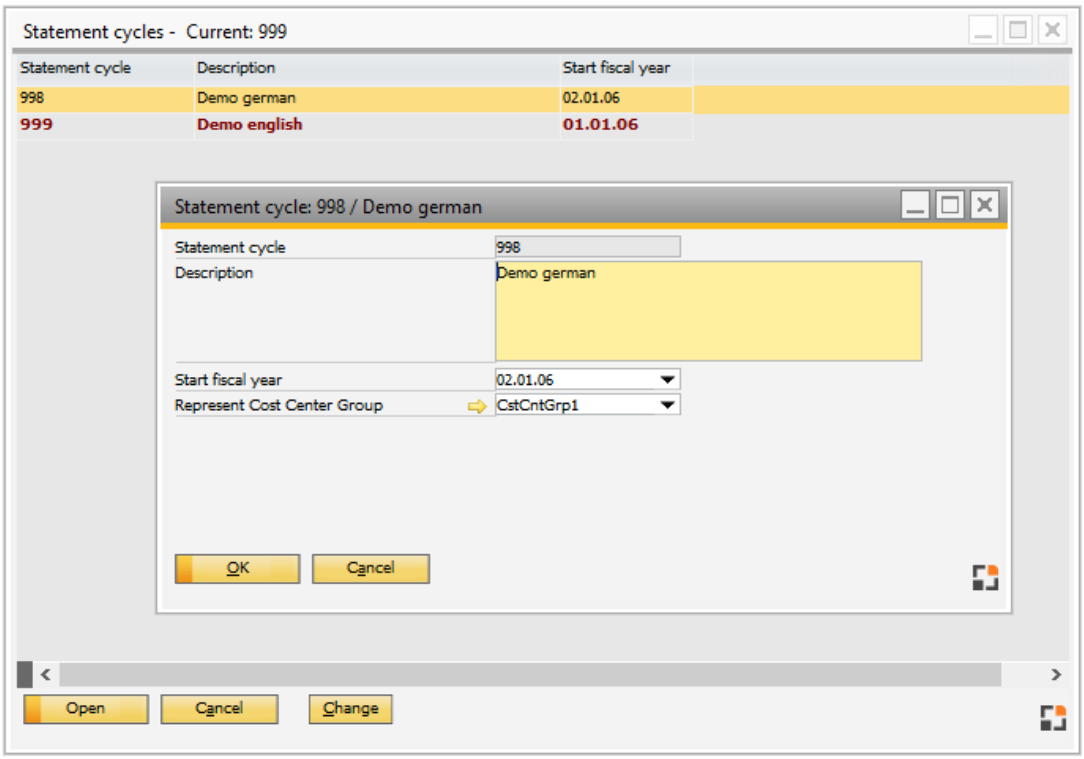


Window beasgui_sbo.psr

Create Statement Cycle

PATH: Financials > Business Performance > Master Data > Statement cycles > "**Open**" entry.

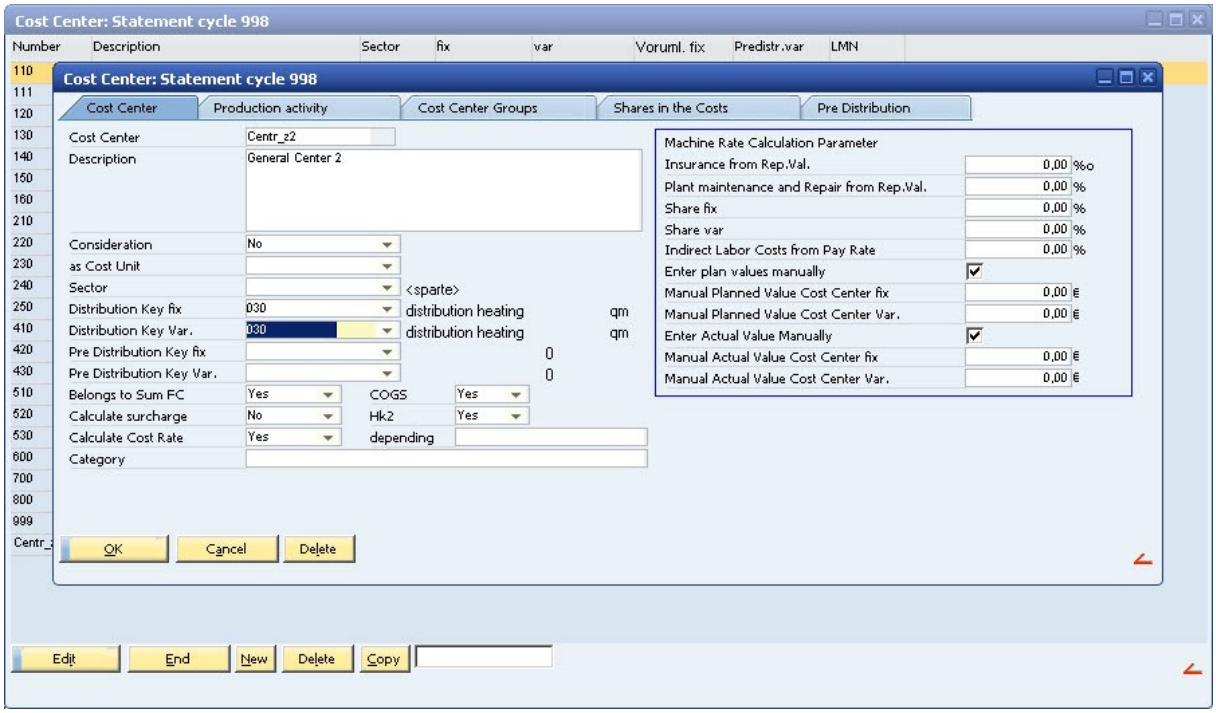
© 2026 Boyum IT Solutions A/S



Window bab_abrid_edit.psr

Create Cost Centers (without key)

The cost centers created here are assigned to the profit centers.



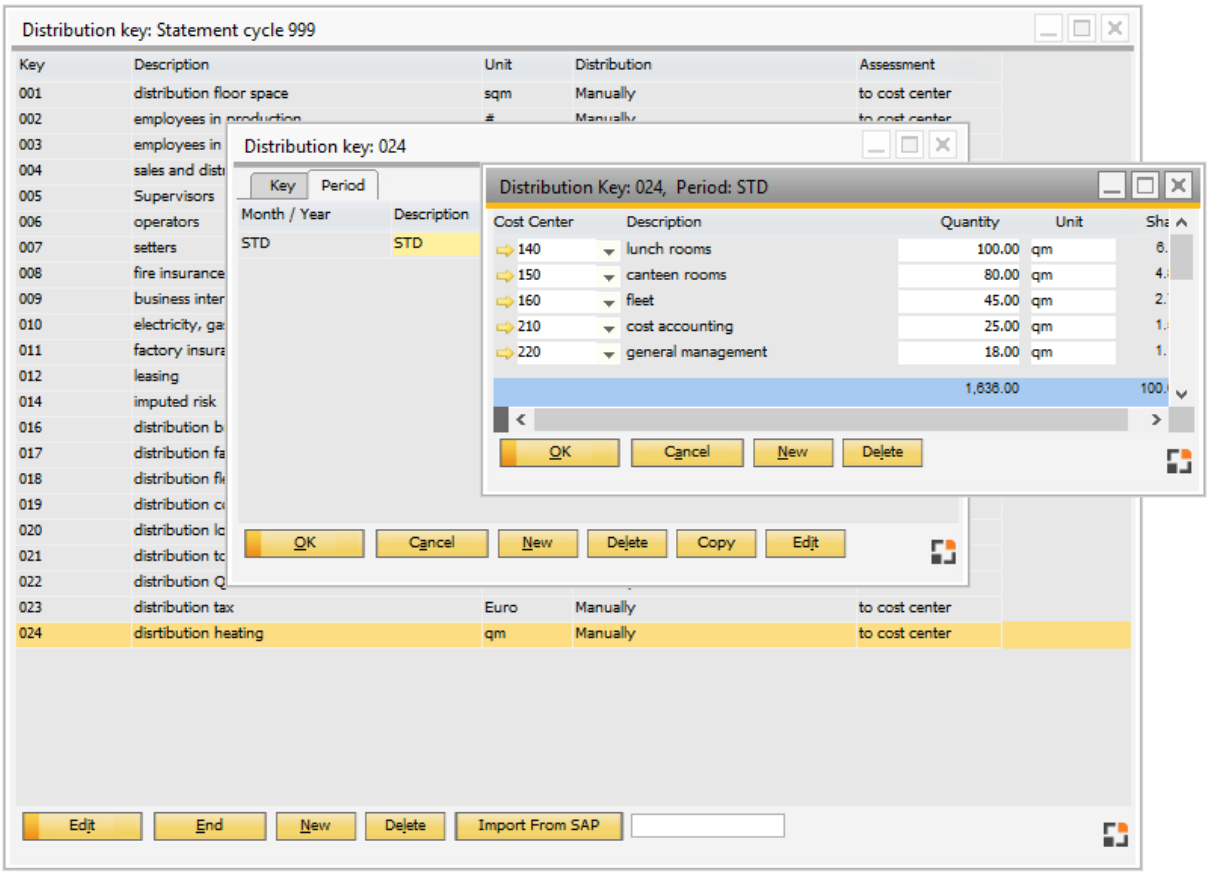
© 2026 Boyum IT Solutions A/S

Create Distribution Key

The keys can be assigned used to assign cost centers or cost elements.

PATH: Financials > Business Performance > Master Data > Distribution key

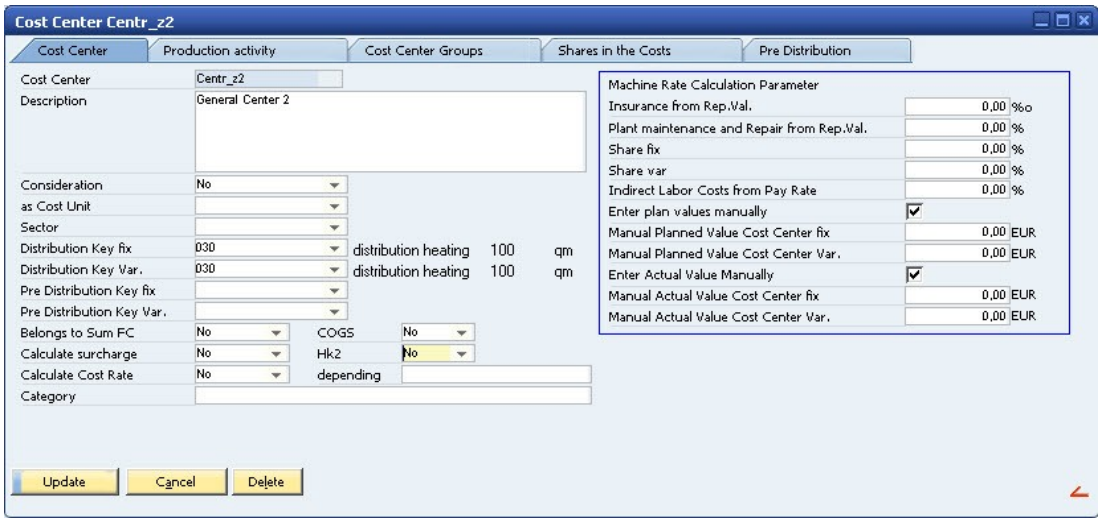
1. "**Edit**" entry.
2. Double-click entry in "Period" tab.



Window bab_vvgr_browse.psr

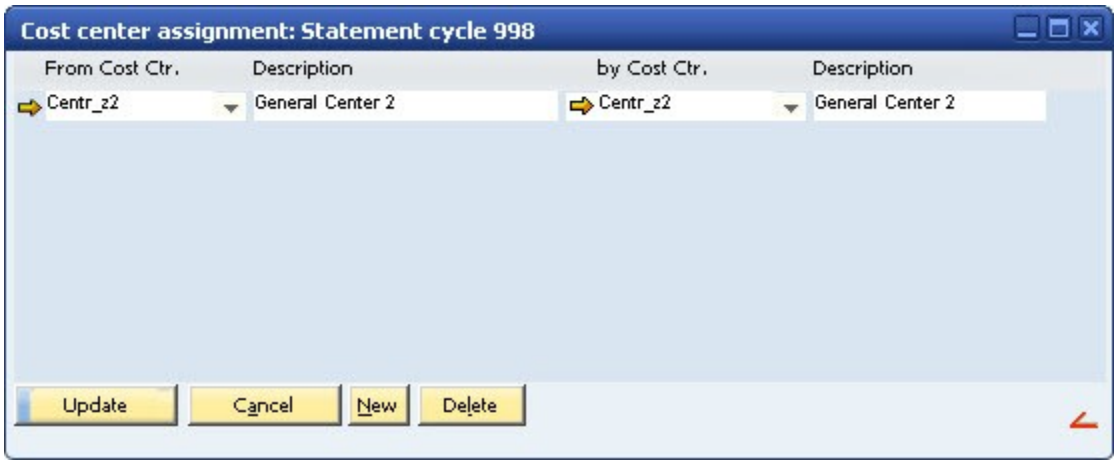
Assign Key to Cost Centers

© 2026 Boyum IT Solutions A/S



Window bab_kst_browse.psr

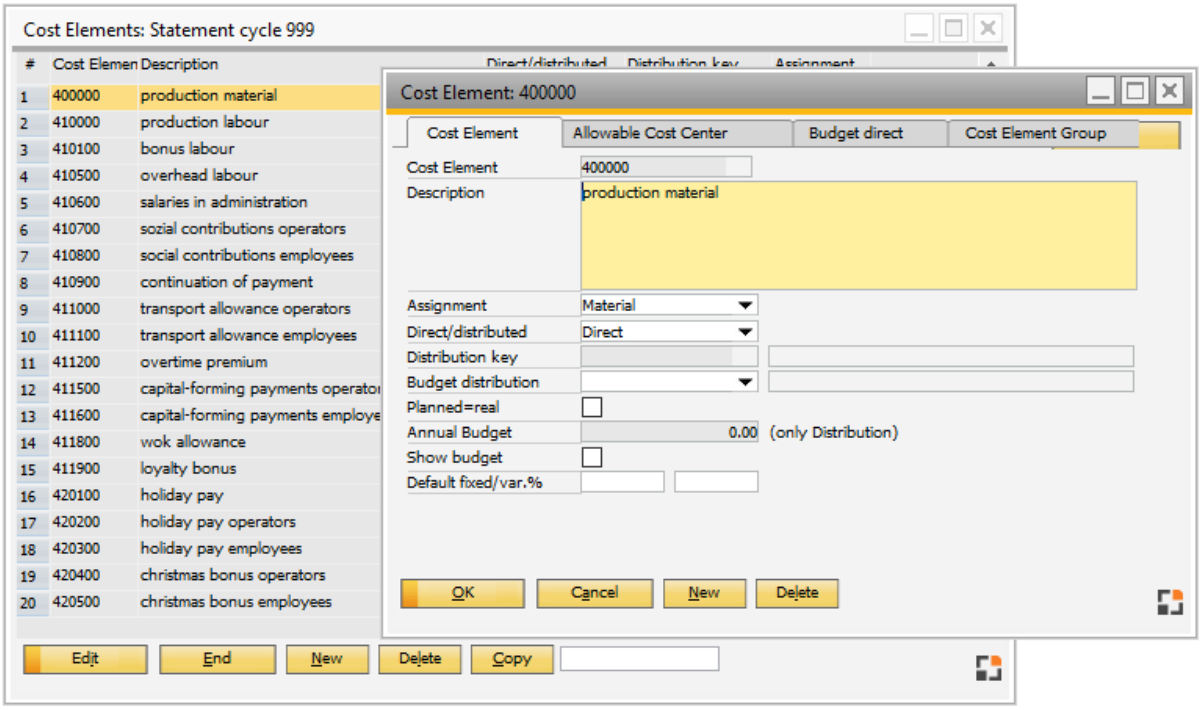
Assign SAP Profit Center to Business performance Cost Centers



Create Cost Elements and Assign Keys

PATH: Financials > Business Performance > Master Data > Cost Elements > "**Edit**" an entry.

© 2026 Boyum IT Solutions A/S

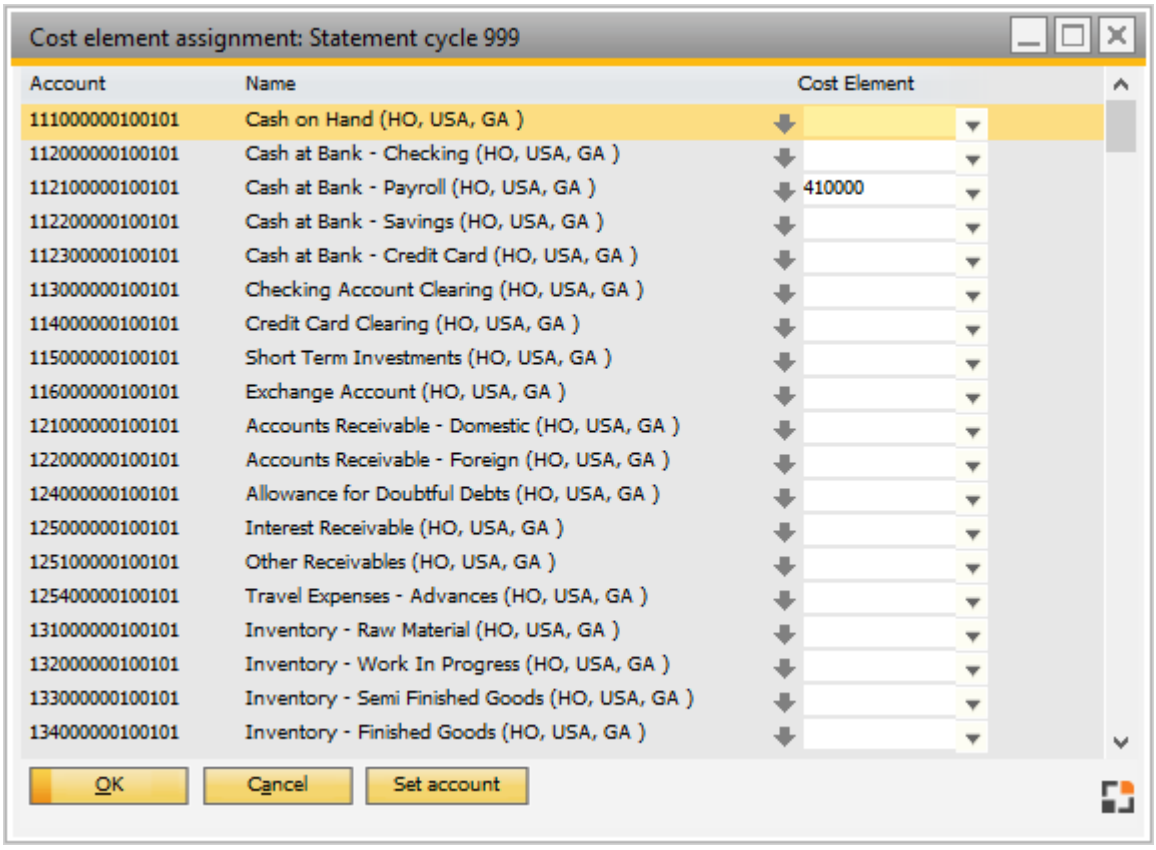


Window bab_ka_edit.psr

Assign Cost Elements to SAP Cost Elements

PATH: Financials > Business Performance > Master Data > Cost element assignment

© 2026 Boyum IT Solutions A/S



Window bab_konto_kstst_edit.psr

4.2.4 Absorption Costing - Introduction

Usage is only possible if "Absorption Costing" for Business Performance is defined in the Beas Configuration wizard.

QUICK GUIDE FOR THE 2020.12 RELEASE OF ABSORPTION COSTING MODULE IN BEAS

Business performance - Introduction to Absorption costing

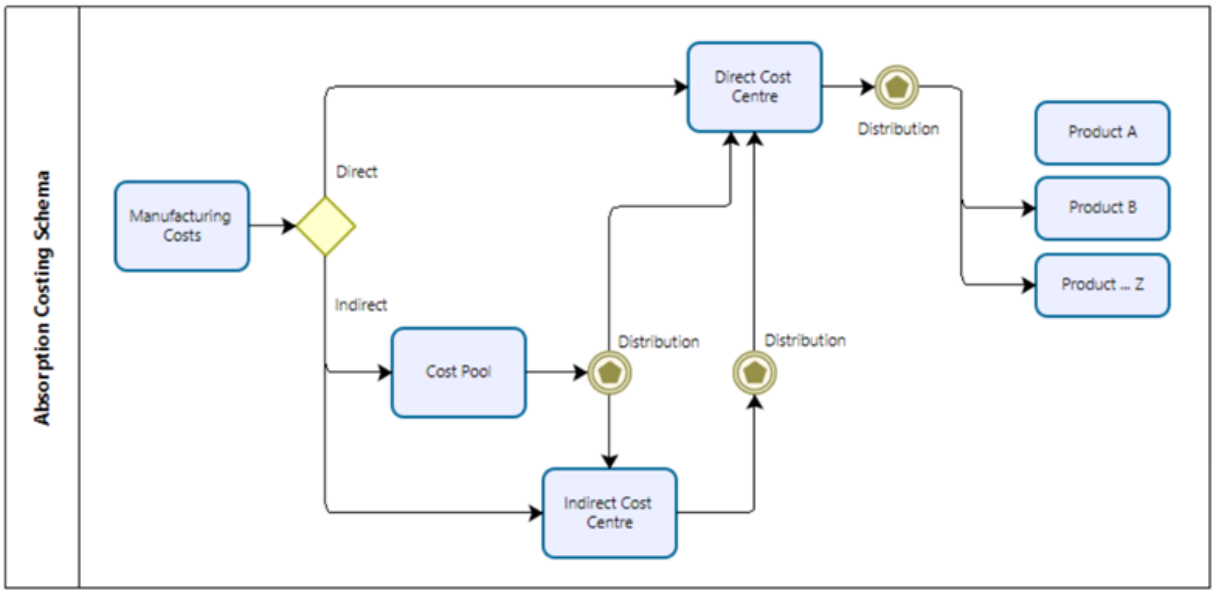
An Introduction to Absorption Costing

Absorption costing is a costing method targeted at distributing manufacturing overheads to the manufactured items and appropriating these costs into inventory, where they will remain until the company sells them. After selling, the products' costs, now including manufacturing overheads distribution, will be recognized as COGS (Costs of Goods Sold) and affect the Profit & Losses financial statement. It is important to note that, apart from being an extremely useful tool for accurate per-product profits calculation, absorption costing is a mandatory requirement for publicly

© 2026 Boyum IT Solutions A/S

traded companies who need to follow GAAP and/or IFRS standards, and required by tax laws in the United States, Brazil, and many other countries.

When using absorption costing, the companies book all their manufacturing costs to cost centers, which can be direct or indirect. Direct cost centers represent manufacturing units directly related to production, like production equipment and work centers. Indirect cost centers, on the other hand, can represent either manufacturing units indirectly related to production (such as maintenance, production supervision, and quality control) or cost pools, which are intermediate cost centers that collect multiple costs before a further distribution into other direct or indirect cost centers. Afterwards, distribution rules will set the basis for sharing the costs contained in indirect cost centers across the direct cost centers, which will later be carried over into the products.



However, absorption costing can be an extremely complicated and time-consuming task without a powerful and integrated ERP to support it. In fact, several companies give up on absorption costing or treat it just like a burdensome obligation due to the simple fact that they lack the proper tools to calculate it properly. After all, for absorption costing to be successful, it needs to combine information coming from finance, production, maintenance, and many other departments, which can all have their own systems and require extensive manual work to match an immense amount of data in spreadsheets and input the results into the ERP. Nevertheless, when using Beas Manufacturing, you can be just a few clicks away from accomplishing a full absorption costing process, as it integrates manufacturing data to financial information coming from SAP Business One, automatically calculates the distributions of costs in between cost centers and products, and reevaluate the goods based on their new calculated costs.

SAP B1 and Beas Financial Integration

© 2026 Boyum IT Solutions A/S

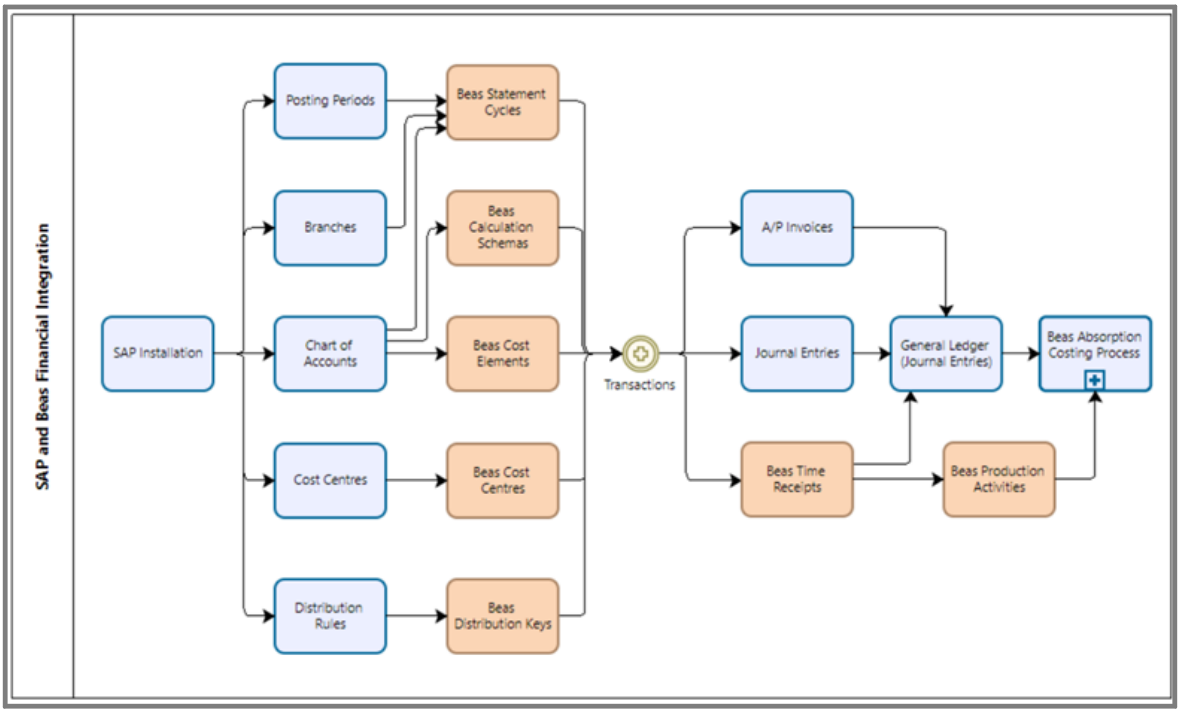
In an SAP Business One installation, the typical implementation process includes basic financial definitions such as posting periods, company branches (in the case of having multiple subsidiaries in the same database), chart of accounts, cost centers, and distribution rules (responsible for sharing values across multiple cost centers in certain transactions). Every time a user creates a transaction with inventory or financial implications, this transaction will trigger a journal entry containing manually selected accounts or automatically defined accounts based on accounting determinations, besides cost centers selected by the user or linked to the accounts.

For using absorption costing in Beas Manufacturing, extra definitions are required, like statement cycles mapped to the branches and posting periods, cost elements associated to the desired accounts from the chart of accounts, cost centers for direct and indirect manufacturing costs, and distribution keys reflecting SAP's distribution rules. The linking in between manufactured items and direct cost centers happens through time receipts, which are the transactions generated to record processing times from factory workers and machines, and will later compose the production activities, or the list of manufactured goods to receive absorption costing appropriation.

Time receipts also trigger journal entries for labor and machine costs according to pre-defined resources and operators' cost rates, in order to keep manufacturing costs as close as possible to the costs after absorption costing. These costs are automatically reverted as part of the absorption costing process (preventing double-costing on products, as they will receive labor, machine, and overhead costs from absorption costing) and, based on absorption costing results, output new recommended cost rates for production resources.

The flowchart below illustrates the integrations between SAP Business One and Beas Manufacturing for generating transactions and processing absorption costing.

© 2026 Boyum IT Solutions A/S



Beas Business Performance - Absorption Costing

Beas Manufacturing, through its module Business Performance, provides an absorption costing functionality capable of distributing manufacturing costs (labor and overheads) to the produced goods, including distributions from cost pools and indirect cost centers to direct cost centers, detailed control of open absorption costing values for unfinished production orders at the month's end, and redirection of sub-assemblies' appropriations to the products who consumed then. Absorption costing affects inventory values, expenses, and costs of goods sold (if the products to reevaluate were already sold during the month) by moving production-related expenses into inventory. This means that, after executing absorption costing, the company's profits will be higher unless it has sold all its produced inventory, as manufacturing costs are only recognized as expenses in the form of COGS.

As mentioned before, absorption costing is a mandatory requirement for publicly traded companies who need to follow GAAP and/or IFRS standards, and required by tax laws in the United States, Brazil, and many other countries. By having Beas Manufacturing in place, your company can transform the burden of fulfilling tax requirements or complying to financial standards into a powerful and automated analytical tool for understanding costs and profits, requiring a fraction of the effort normally required by the traditional manual calculation methods.

See:

Absorption Costing - Concept

Absorption Costing - Setup

© 2026 Boyum IT Solutions A/S

Absorption Costing - WORKFLOW
Absorption Costing Report - Concept

4.2.5 Absorption Costing - WORKFLOW

Here you can find the steps of the complete Beas Absorption costing workflow.

The workflow steps are to be performed in the following order:

1. Financial Data workflow
2. Production Activities workflow
3. Cost Calculate workflow
4. Absorption Costing workflow
5. Absorption Costing - Finishing steps

See:
Absorption Costing - Concept
Absorption Costing - Setup
Absorption Costing Report - Concept

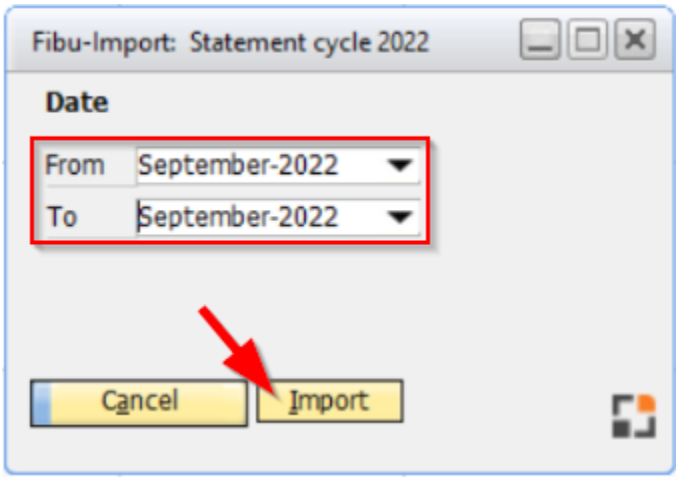
4.2.5.1 Financial Data - Workflow

The Beas Business Performance **Financial Data** keeps all financial transactions that will feed the absorption costing process. Importing financial data is the first step for executing absorption costing after you have successfully completed the required setup. As it relies on transactions created in SAP Business One, make sure that all documents and journal entries are already posted before you import the financial data, as data is not automatically synchronized in between the two systems.

> NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

1) Define starting and ending month to import **Financial Data** for the currently active Statement Cycle. Remember that Business Performance will ignore all transactions related to accounts not assigned to Cost Elements. Besides, all transactions must be linked to Cost Centers or Distribution Rules, and the chosen Cost Centers must be defined as allowed for the Cost Elements, or you will receive errors during the importing process.

© 2026 Boyum IT Solutions A/S

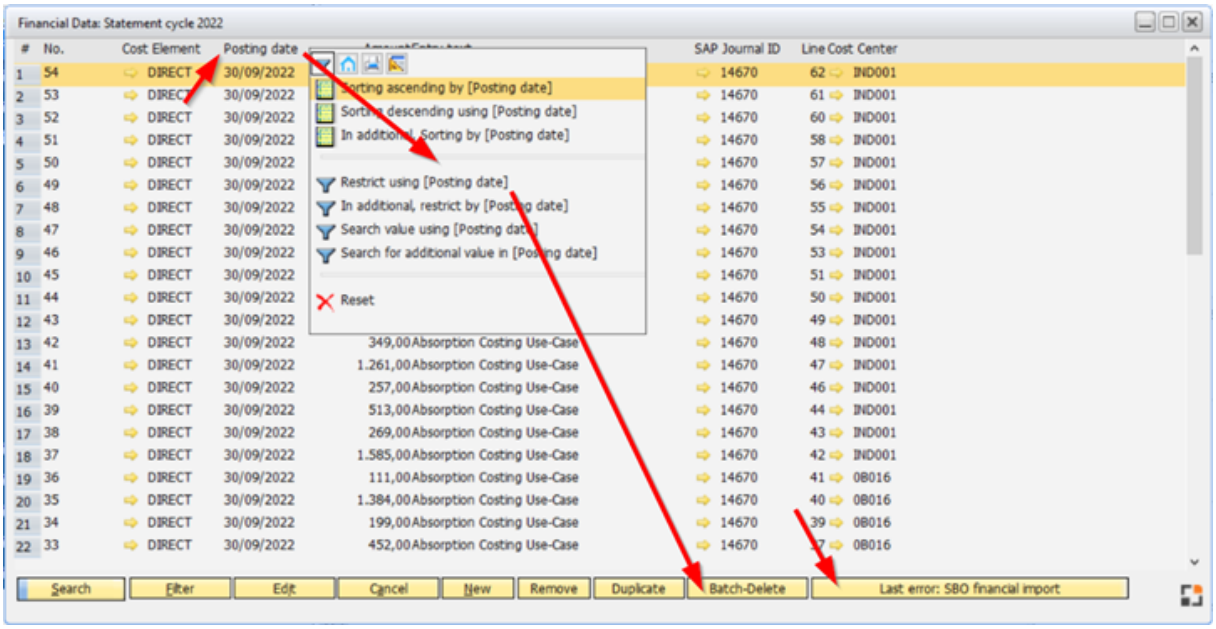


Window bab_fibuimport_start.psr

2) Open the **Financial Data** window and check if there were any errors related to the previous importing. After you fix the errors, you need to delete the existing financial data for the month before you import it again, or the data will be duplicated (Beas does not check if the data exists before importing, it will just re-import everything). To delete the data, you can right-click the "Posting date" column, choose "Restrict using [Posting date]", select the month in which the error happened, and click on "Batch-Delete" (batch-delete only affects the data currently visible on the screen—if you filtered correctly, this will not affect transactions from other periods).

Important note: Although there is a "**New**" button on the screen, don't use it for the purposes of absorption costing, or you'll overburden your products with non-existent costs. This button exists for other functionalities related to the Business Performance module, not for companies using absorption costing. All financial transactions must be created in SAP Business One and imported into Beas.

© 2026 Boyum IT Solutions A/S



Window bab_fibu_browse.psr

see next step: Production Activities - workflow

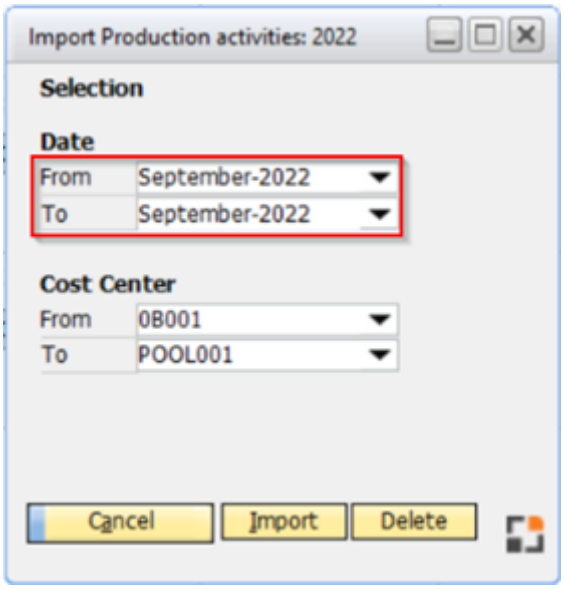
4.2.5.2 Production activities - Workflow

All production transactions generated in Beas are reflected in Business Performance - Production Activities. Production activities include the production items, quantities, times, and costs per Cost Center and are the base for distributing costs from direct Cost Centers into the manufactured goods. Additionally, since this feature also summarizes all manufacturing costs per Cost Center (calculated according to the existing resource cost rates), it can also be a guide to set-up Distribution Keys for indirect manufacturing costs.

> NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

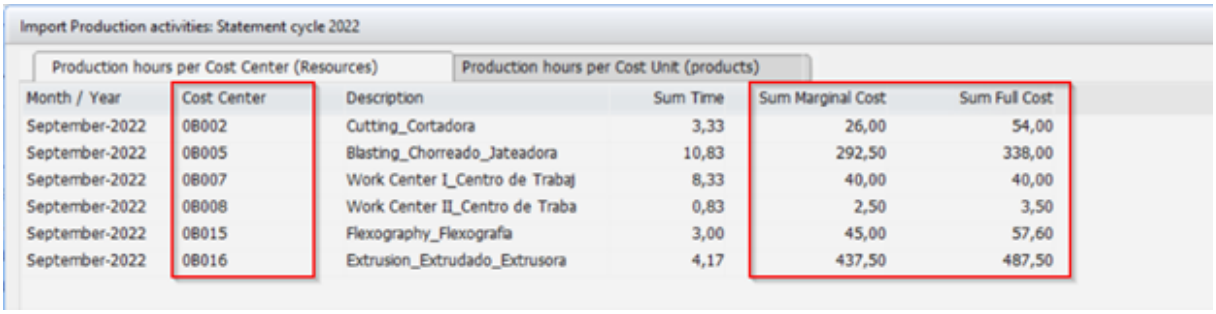
1) Define starting and ending month to import **Production Activities** for the currently active Statement Cycle. You can leave the Cost Centers filter untouched and import data for all Cost Centers, as production activities, in contrast to financial data, are always erased when re-importing data for the same months (so, you will never get duplicate production activities.

© 2026 Boyum IT Solutions A/S



Window bab_fertigungsleistungen.psr

2) After importing production activities, you will be presented with a summary screen, including marginal and full costs per Cost Center.

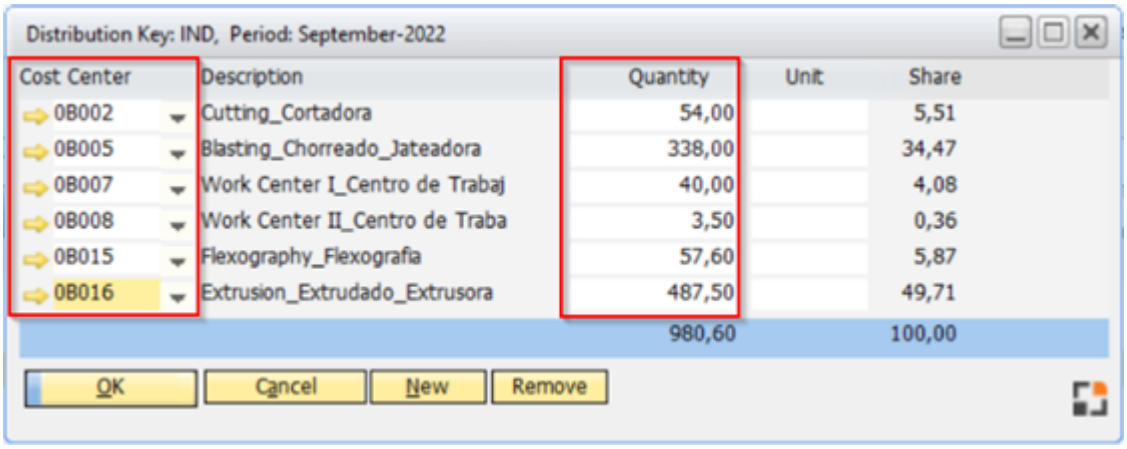


Month / Year	Cost Center	Description	Sum Time	Sum Marginal Cost	Sum Full Cost
September-2022	0B002	Cutting_Cortadora	3,33	26,00	54,00
September-2022	0B005	Blasting_Chorreado_Jateadora	10,83	292,50	338,00
September-2022	0B007	Work Center I_Centro de Trabaj	8,33	40,00	40,00
September-2022	0B008	Work Center II_Centro de Traba	0,83	2,50	3,50
September-2022	0B015	Flexography_Flexografía	3,00	45,00	57,60
September-2022	0B016	Extrusion_Extrudado_Extrusora	4,17	437,50	487,50

Window bab_fert_leist.psr

This is a very useful data if you are not sure which is the most appropriate criteria for distributing costs from indirect to direct Cost Centers, as it represents which resources (direct Cost Centers) generated more costs for your company. To use this data as distribution base for indirect Cost Centers, can just copy the information from this screen into a Distribution Key and link it to the desired indirect Cost Centers.

© 2026 Boyum IT Solutions A/S



Window bab_vvgr_browse.psr

After you press "**Apply**", the results screen close.

see next step: Cost calculate workflow

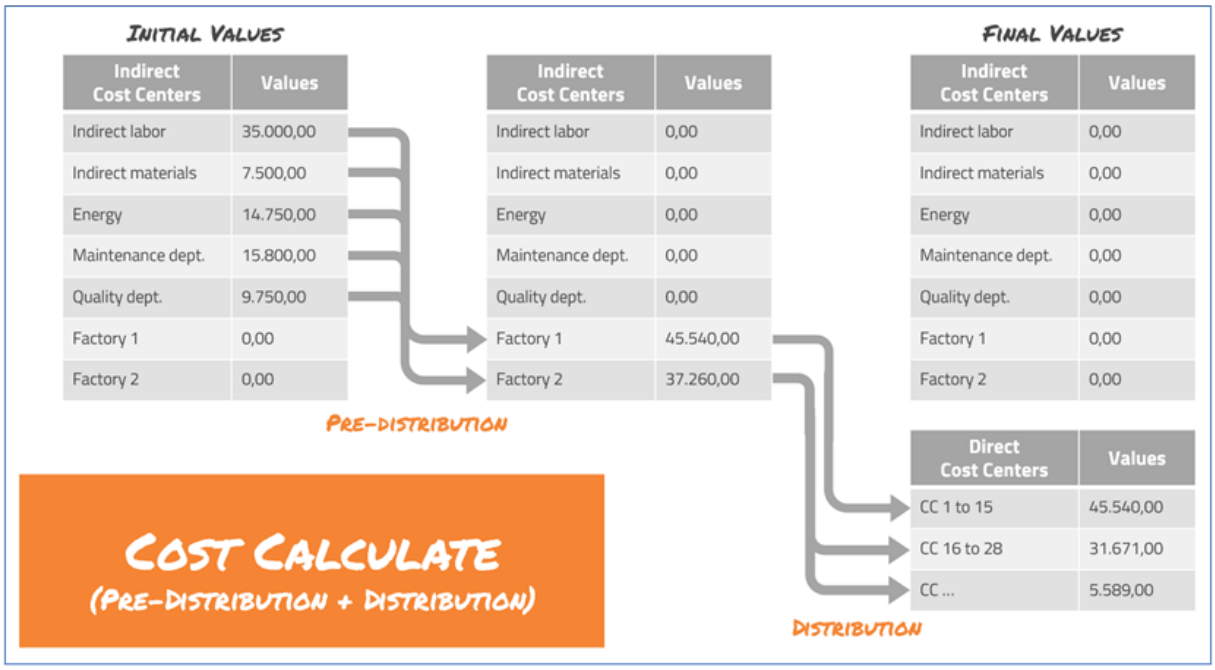
4.2.5.3 Cost calculate - Workflow

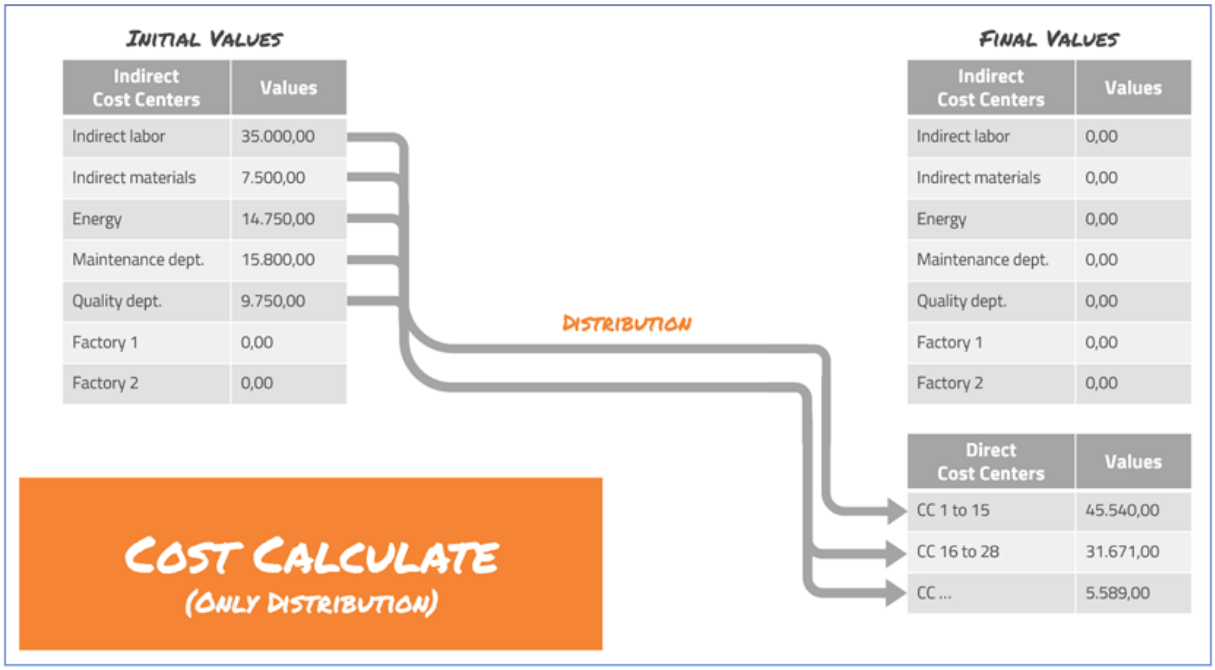
When both financial data and production activities are imported, the next step is to process the distributions in between Cost Centers through the Cost Calculate function. Distributions are processed in two steps:

I. **Pre-distribution**: distribute values from indirect Cost Centers (including cost pools) to other Cost Centers, either direct or indirect. Cost Centers receiving values from the pre-distribution phase can also have Distribution Keys set to them for further distributions. If no Cost Centers have Distribution Keys set for pre-distribution (normal scenario, as pre-distribution is only useful in very specific situations), this step is skipped.

II. **Distribution**: final distribution step, taking values from the indirect Cost Centers into directs. If any costs remain undistributed, it will not be carried over to the manufactured goods, reason for which you must make sure that all indirect Cost Centers have Distribution Keys assigned and that they are configured to send values only to direct Cost Centers. In the two images below, you can see how Cost Calculate behaves when having pre-distribution plus distribution, or distribution only. Next, there is an explanation about running the Cost Calculate process.

© 2026 Boyum IT Solutions A/S





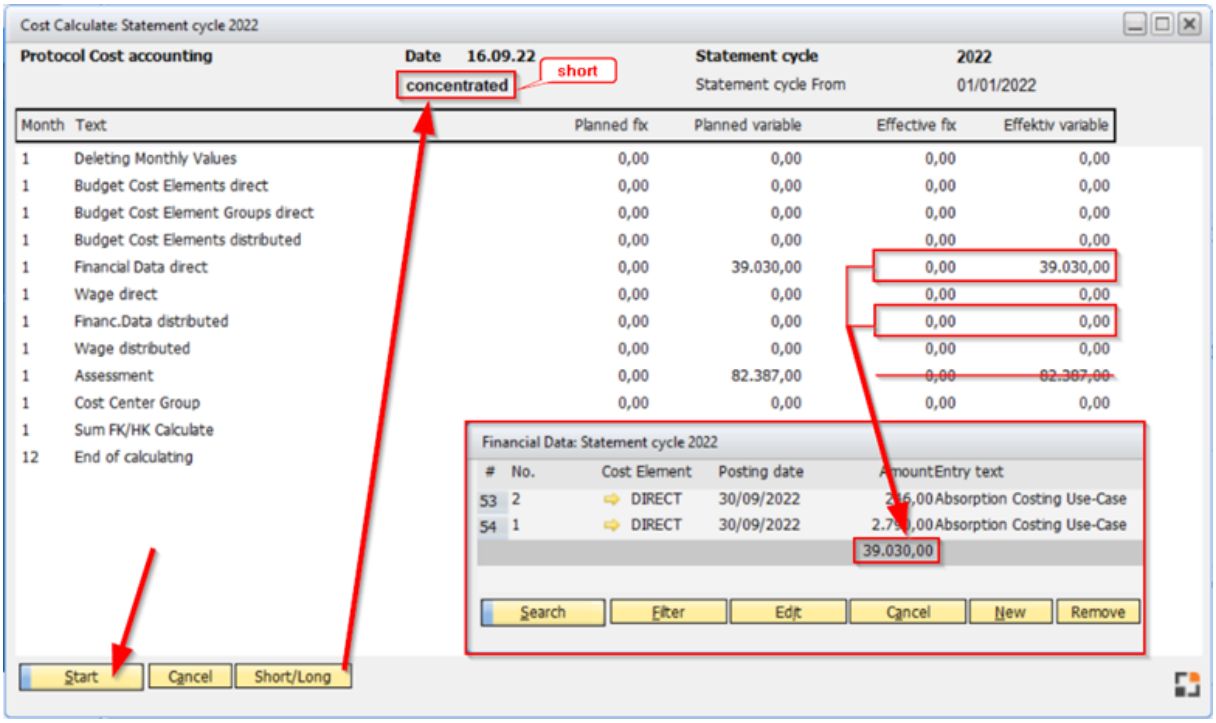
1) Execute **Cost Calculate**. Switching between short and long views has no impact on the calculation process itself, only on how you see data on the screen. The recommendation is to always use the short view, as there is no real benefit from using long view and it really slows down the calculations. If you wish to double-check whether your calculated values are correct or wrong, verify if the sum of “Financial Data direct” and “Financ.Data distributed” matches the total amount

© 2026 Boyum IT Solutions A/S

of financial data for the whole Statement Cycle. The values for “Financ.Data distributed” will only differ from 0 when you have distributed Cost Elements; if not, it will be 0 even when you have values on indirect Cost Centers with Distribution Keys assigned (and you shouldn’t worry about where this screen displays the values).

Important note: “Fix” and “Variable” values depend on whether you set your Cost Elements as related to fixed or variable costs for the Cost Centers. Regarding the “Assessment” field, you can safely ignore its value.

NOTE: The below screenshot in this chapter is using the "Old System (Deprecated) style" set in the Configuration wizard.



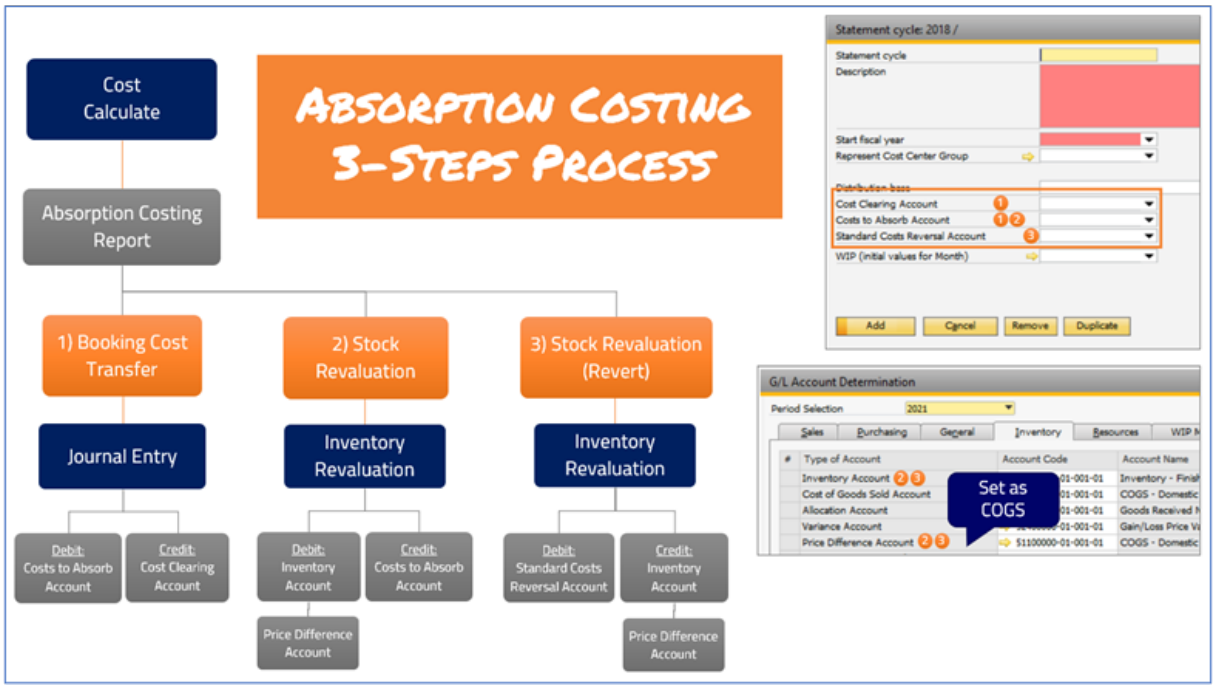
WIndow bab_berechnen.psr

see Absorption costing workflow

4.2.5.4 Absorption Costing - Workflow

After completing the verifications and making sure that all data is correct (if not, please fix everything before going forward), you can proceed to execute absorption costing. Executing it requires three major steps, illustrated in the image below and explained further in this topic. The circled numbers represent the accounts used in each step.

© 2026 Boyum IT Solutions A/S



Important notes:

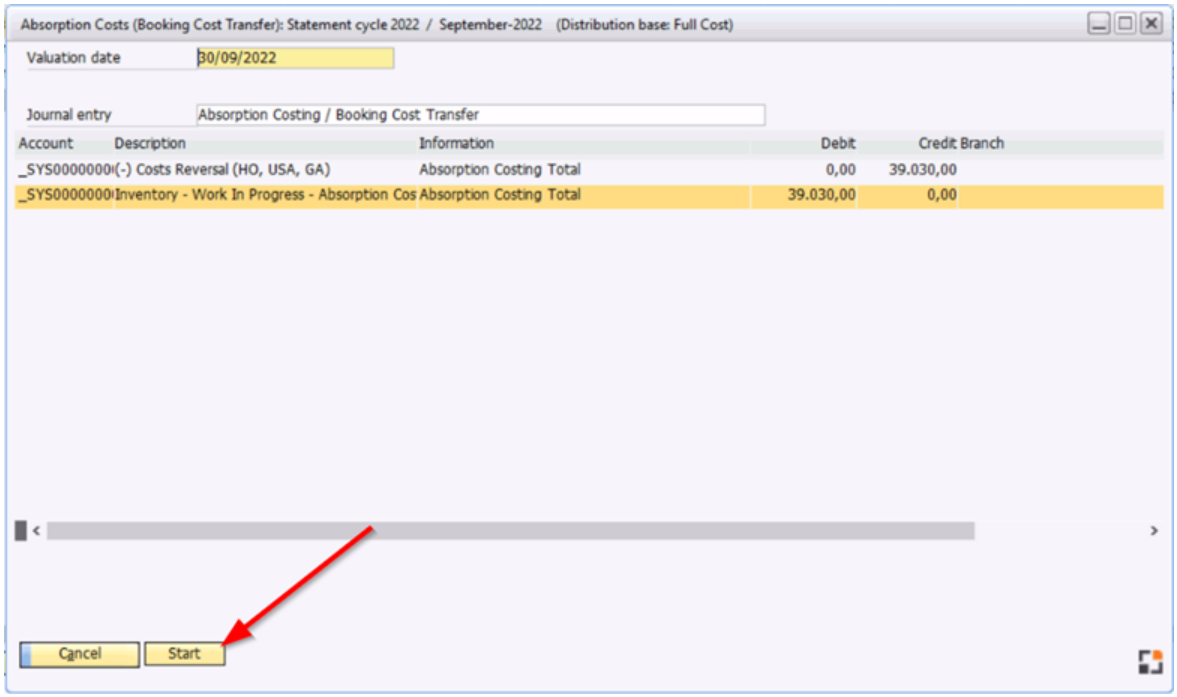
- After the absorption costing processes of Stock Revaluation and Stock Revaluation (Revert) are executed for a Statement Cycle, they cannot be performed for the same Work Orders again. Be sure that all values are correct before starting the three major steps.
- There is no cancellation option for the absorption costing process. Whenever absorption costing transactions need to be reverted, you must create new inverted Stock Revaluations in SAP (manually or using DTW) to correct the values. Stock Revaluations created manually or using DTW will not display on the Absorption Costing report.
- Due to an SAP Business One's limitation, the Stock Revaluation transactions can only be done considering the stock available at the moment in which they are being executed. As the available stock influences how much of the values will go into stock or COGS accounts, it is recommended to execute the Absorption Costing process as soon as possible after the month ends.

NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

1) Execute **Booking Cost Transfer**. Whenever you book manufacturing costs in SAP Business One, being them related to labor or overheads, they will go to costs or expenses accounts and be part of your Profit and Losses Statement. Using absorption costing, however, those costs only affect your Profit and Losses Statement in the form of COGS after the products are sold. In this first step, all your manufacturing-related costs are credited from the "Cost Clearing Account" (expenses contra account) and debited to the "Costs to Absorb Account" (asset

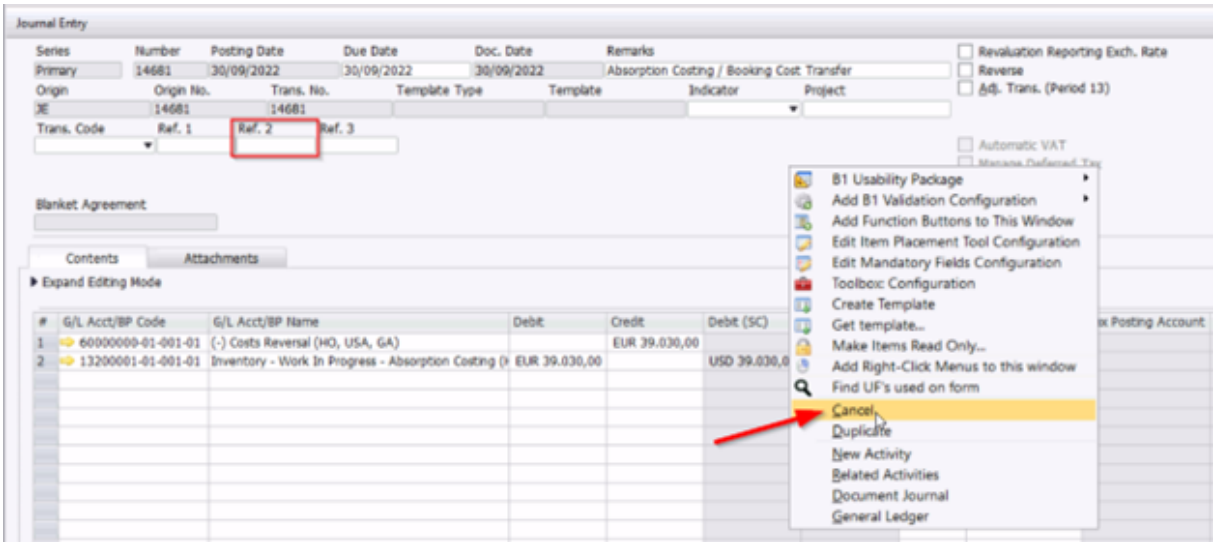
© 2026 Boyum IT Solutions A/S

account) set in the Statement Cycle.



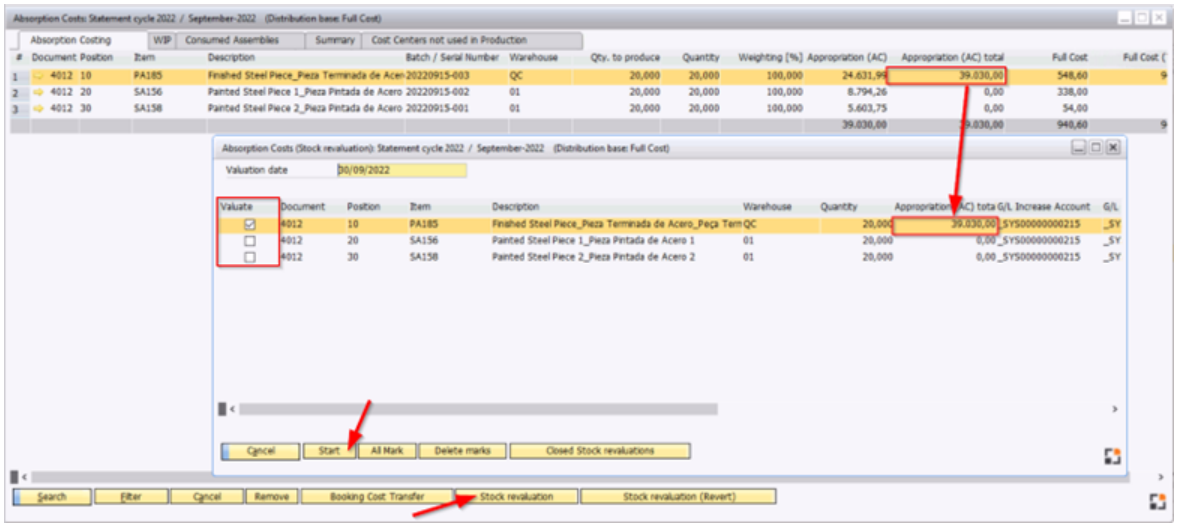
Important note: This is the only step with a relatively easy cancellation procedure if you detect a mistake in your absorption costing process. Therefore, make sure everything is correct before proceeding. If you ever need to cancel a Booking Cost Transfer process, follow these steps:

Open the Booking Cost Transfer journal entry, erase the content of "Ref. 2", update and then cancel it using the same posting date as the date in which Booking Cost Transfer was originally posted. This will enable you to perform Booking Cost Transfer again.



© 2026 Boyum IT Solutions A/S

2) Execute **Stock Revaluation**. This is the moment in which Beas really appropriates costs into the products, taking values from the "Costs to Absorb Account" and moving those values either to the products' stock accounts or COGS (if there is not enough stock during the revaluation). If there are any products for which you don't want to appropriate values now, you can deselect the "Valuate" column, and they will remain open in the list after you run the Stock Revaluation step. This column is automatically selected for items with values to appropriate and deselected for items with 0 appropriation value.



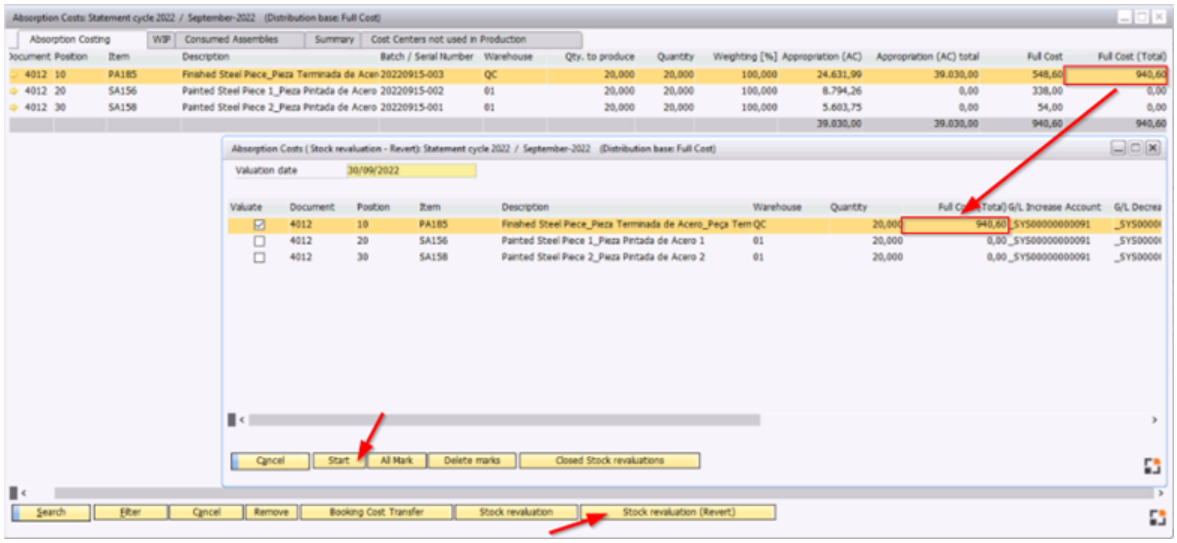
Here is a summary of SAP's possible bookings for the Stock Revaluation process:

Reevaluation Amount	Reevaluation Quantity	Quantity in Stock	Stock Variation	COGS Variation
+1.000,00	100	100	+1.000,00	0,00
+1.000,00	100	50	+500,00	+500,00
+1.000,00	100	0	0,00	+1.000,00

Important note: There is no cancellation option in SAP Business One for Stock Revaluations. If you ever need to cancel an absorption costing process, you can only do so by performing opposite revaluations through DTW.

3) Execute **Stock Revaluation (Revert)**. This is **not** an optional step. You **must** execute Stock Revaluation (Revert) in order to complete the absorption costing process. This step removes from the manufactured products the costs added during the Beas's manufacturing products using the resources' cost rates. These costs are useful to keep the costs as close as possible to the costs after running absorption costing, but cannot remain afterwards, or products will have double costing.

© 2026 Boyum IT Solutions A/S



Here is a summary of SAP's possible bookings for the Stock Revaluation (Revert) process:

Reevaluation Amount	Reevaluation Quantity	Quantity in Stock	Stock Variation	COGS Variation
+1.000,00	100	100	+1.000,00	0,00
+1.000,00	100	50	+500,00	+500,00
+1.000,00	100	0	0,00	+1.000,00

Important note: There is no cancellation option in SAP Business One for Stock Revaluations. If you ever need to cancel an absorption costing process, you can only do so by performing opposite revaluations through DTW.

see Absorption costing - Finishing steps

4.2.5.5 Absorption Costing - Finishing steps

This chapter explains the final steps after executing absorption costing successfully for your company. If absorption costing did not bring successful results, please review the previous topics and make sure that you haven't forgot anything, as any detail left behind can represent potential unwanted differences in your accounting numbers.

When the three absorption costing steps are completed, you can stop right where you are if this is your decision—all product costs should be correct and the only remaining open values should be due to active work orders without production receipts in the month. However, going through a few more steps can guarantee a more accurate system for the future. After all, now that you know

© 2026 Boyum IT Solutions A/S

exactly how much each one of your direct Cost Centers cost you for all their manufacturing activities, why not updating their cost rates so to keep your products even closer to the actual costs when closing the next months? Understanding the resources' actual costs rates after absorption costing and updating them according to the new rates is precisely what we will review in this topic.

1) Open the **Cost Rate Trend** report. This report brings the actual appropriated cost for each direct Cost Center and dividing it by the number or work hours gives you their actual hourly rates for marginal and full costs (columns "Hourly Rate (MargCosts)" and "Hourly Rate (Full Costs)"). For comparison purposes, you can check the costs according to their current hourly rates on "Lmc-real (MargCosts)" and "Lmc-real (Full Costs)".
Important note: If you want Beas to calculate actual cost rates for each resource, you must link each one of them to a specific direct Cost Center.

Cost Rate Trend: 2022

#	Cost Center	Accounting month	Month/year	Marginal Cost	Full Cost	Hours	Hourly Rate (MargCosts)	Hourly Rate (Full Costs)	Lmc-real (MargCosts)	Lmc-real (Full Costs)
1	08002	9	September-2022	5.603,75	5.603,75	3,33	1.682,81	1.682,81	26,00	54,00
2	08005	9	September-2022	8.794,26	8.794,26	10,83	812,03	812,03	292,50	338,00
3	08007	9	September-2022	0,00	0,00	0,00	0,00	0,00		
4	08008	9	September-2022	4.497,44	4.497,44	0,83	5.418,60	5.418,60	2,50	3,50
5	08015	9	September-2022	9.421,60	9.421,60	3,00	3.140,53	3.140,53	45,00	57,60
6	08016	9	September-2022	10.712,95	10.712,95	4,17	2.569,05	2.569,05	437,50	487,50
7	08028	9	September-2022	0,00	0,00	0,00	0,00	0,00		

2) Create the following SQL View on your database. SQL Views are an easy way to pre-set queries to retrieve data again and again without having to rewrite them. So, you can select data directly from the SQL View and it will bring values related to all the tables inside it:

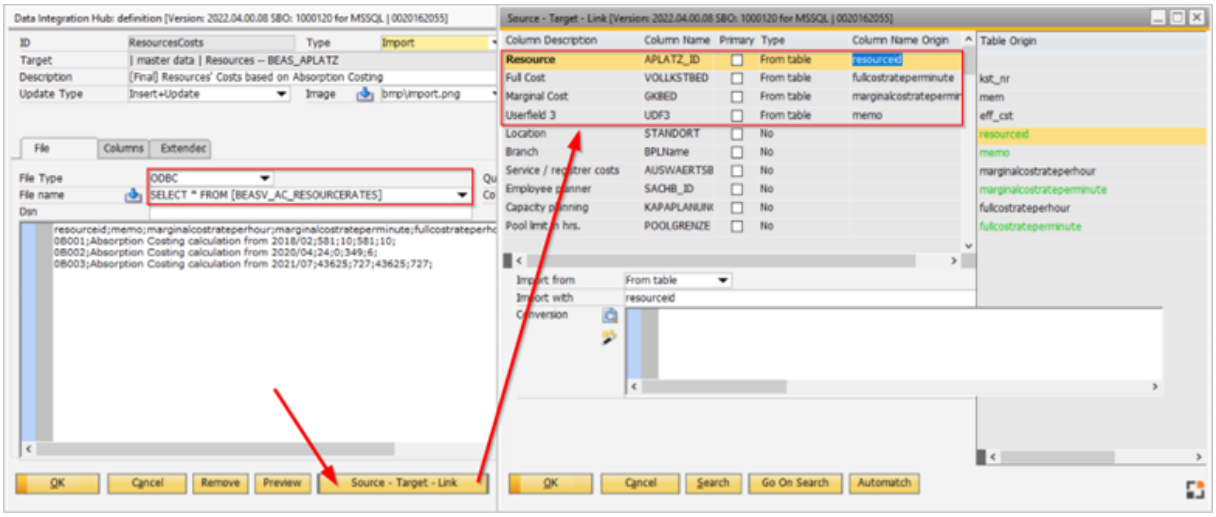
```
CREATE VIEW [dbo].[BEASV_AC_RESOURCERATES] AS
     SELECT
     T0."ResourceID",
     CONCAT('Absorption Costing calculation from ',T0."Memo") AS "Memo",
     COALESCE(T0."MarginalCostRatePerHour",0) AS "MarginalCostRatePerHour",
     COALESCE(T0."MarginalCostRatePerMinute",0) AS "MarginalCostRatePerMinute",
     COALESCE(T0."FullCostRatePerHour",0) AS "FullCostRatePerHour",
     COALESCE(T0."FullCostRatePerMinute",0) AS "FullCostRatePerMinute"
     FROM
     (SELECT
     "APLATZ_ID" AS "ResourceID",
     (SELECT CONCAT(RTRIM(T0."ABR_ID"),CONCAT('/',RIGHT(CONCAT('00',T0."MONAT"),2))) FROM
     "BEAS_BAB_KOSTENSAETZE" T0 WHERE CONCAT(T0."ABR_ID",RIGHT(CONCAT('00',T0."MONAT"),2))=(SELECT
     MAX(CONCAT(T1."ABR_ID",RIGHT(CONCAT('00',T1."MONAT"),2))) FROM "BEAS_BAB_KOSTENSAETZE" T1 WHERE
     T1."EFF_STD">0 AND T1."VK">0 AND T1."KST_NR"=T0."KST_NR") AND T0."KST_NR"="BEAS_APLATZ"."KSTST_ID")
      AS "Memo",
     (SELECT CASE WHEN T0."EFF_STD">0 THEN T0."VK"/T0."EFF_STD" ELSE 0 END FROM "BEAS_BAB_KOSTENSAETZE"
     T0 WHERE CONCAT(T0."ABR_ID",RIGHT(CONCAT('00',T0."MONAT"),2))=(SELECT
     MAX(CONCAT(T1."ABR_ID",RIGHT(CONCAT('00',T1."MONAT"),2))) FROM "BEAS_BAB_KOSTENSAETZE" T1 WHERE
     T1."EFF_STD">0 AND T1."VK">0 AND T1."KST_NR"=T0."KST_NR") AND T0."KST_NR"="BEAS_APLATZ"."KSTST_ID")
      AS "FullCostRatePerHour",
     (SELECT CASE WHEN T0."EFF_STD">0 THEN T0."VK"/T0."EFF_STD"/60 ELSE 0 END FROM
     "BEAS_BAB_KOSTENSAETZE" T0 WHERE CONCAT(T0."ABR_ID",RIGHT(CONCAT('00',T0."MONAT"),2))=(SELECT
     MAX(CONCAT(T1."ABR_ID",RIGHT(CONCAT('00',T1."MONAT"),2))) FROM "BEAS_BAB_KOSTENSAETZE" T1 WHERE
     T1."EFF_STD">0 AND T1."VK">0 AND T1."KST_NR"=T0."KST_NR") AND T0."KST_NR"="BEAS_APLATZ"."KSTST_ID")
      AS "FullCostRatePerMinute",
     (SELECT CASE WHEN T0."EFF_STD">0 THEN T0."VK"/T0."EFF_STD" ELSE 0 END FROM "BEAS_BAB_KOSTENSAETZE"
     T0 WHERE CONCAT(T0."ABR_ID",RIGHT(CONCAT('00',T0."MONAT"),2))=(SELECT
     MAX(CONCAT(T1."ABR_ID",RIGHT(CONCAT('00',T1."MONAT"),2))) FROM "BEAS_BAB_KOSTENSAETZE" T1 WHERE
     T1."EFF_STD">0 AND T1."GK">0 AND T1."KST_NR"=T0."KST_NR") AND T0."KST_NR"="BEAS_APLATZ"."KSTST_ID")
      AS "MarginalCostRatePerHour",
     (SELECT CASE WHEN T0."EFF_STD">0 THEN T0."VK"/T0."EFF_STD"/60 ELSE 0 END FROM
     "BEAS_BAB_KOSTENSAETZE" T0 WHERE CONCAT(T0."ABR_ID",RIGHT(CONCAT('00',T0."MONAT"),2))=(SELECT
```

© 2026 Boyum IT Solutions A/S

```
MAX(CONCAT(T1."ABR_ID",RIGHT(CONCAT('00',T1."MONAT"),2))) FROM "BEAS_BAB_KOSTENSAETZE" T1 WHERE
T1."EFF_STD">0 AND T1."GK">0 AND T1."KST_NR"=T0."KST_NR") AND T0."KST_NR"="BEAS_APLATZ"."KSTST_ID")
 AS "MarginalCostRatePerMinute"
FROM "BEAS_APLATZ") T0
WHERE
COALESCE(T0."FullCostRatePerHour",0)>0 OR COALESCE(T0."MarginalCostRatePerHour",0)>0
GO
```

3) Create a Data Integration Hub scenario for resources master data retrieving information from the SQL View ("SELECT * FROM [BEASV_AC_RESOURCERATES]") and match the highlighted fields (choose between rate per minute and rate per hours according to how you configure your resource cost rates).

NOTE: Screenshots in this chapter are made with the "Old System (Deprecated) style" set in the Configuration wizard.

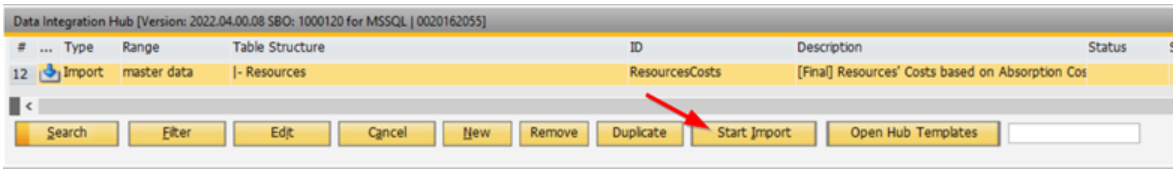


Window importkopf_edit.psr, import_fields_browse.psr

4) Check the **Preview** (if desired) and process the data importing. Remember that if you have more resources linked to the same direct Cost Center, their costs will also be updated even if they have not taken part in the absorption costing process. This can be avoided by having one direct Cost Center for each resource.

Window import_defpreview.psr

© 2026 Boyum IT Solutions A/S



Window importkopf_browse.psr

back to Absorption Costing - WORKFLOW

4.2.6 Master data

The current client and/or the desired statement cycle is selected and/or administered at master data/statement cycle.
All additional master data and reports refer to the currently selected statement cycle.

A statement cycle must first be created or selected. Twelve months can be administrated per statement cycle, with twelve months normally corresponding to one fiscal year. The various months are continuous ly rolled forward, unless a change of year is introduced at year end or a new client is created and processing continues in the new year with this client.

Master data overview:
Statement Cycles
Distribution Key
Cost elements
Cost Center
Cost Element Groups
Cost Center Groups
Cost Center Assignment
Cost Element Assignment
Settlement Structure for P/L Statement

See Absorption Costing - Setup

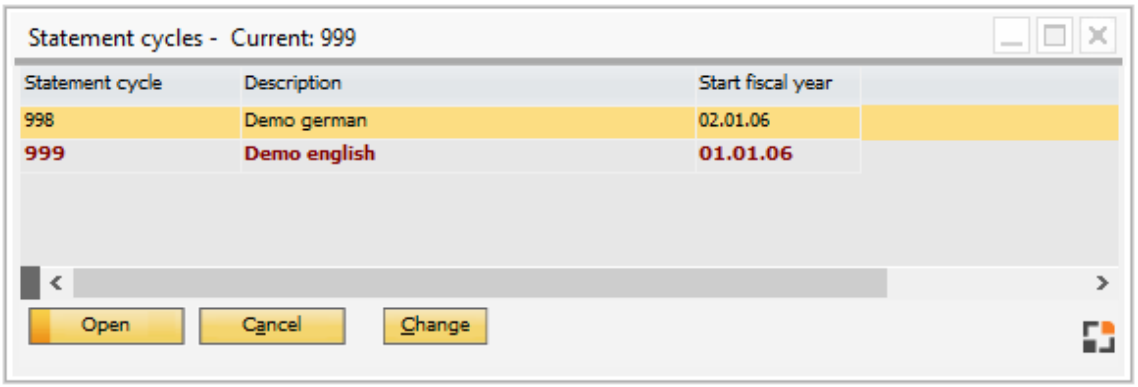
4.2.6.1 Statement Cycle

Use the statement cycle browser and the "**Change**" button to specify which area you would like to work with. The selected area will be listed in bold.

Settings:
Absorption Costing - Setup
Statement Cycle setup

© 2026 Boyum IT Solutions A/S

PATH: Financials > Business Performance > Master Data > Statement cycles.



Window bab_abrid_browse.psr

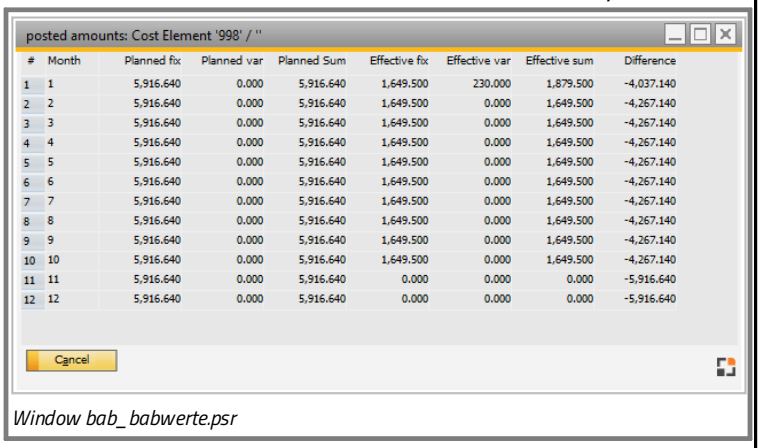
Field descriptions

Field	Description
Statement cycle	ID for statement cycle.
Description	Text field to describe statement cycle.
Start fiscal year	All Reports and computations are calculated using this date as the starting reference.
Distribution base	Basis for the structural representation of costs of an accounting unit. Costs are based upon this cost center group ***See*** Cost center group.

Buttons/Functions

Field	Description
Open	Open selected Statement cycle to edit.
Cancel	Close window without saving changes.
Change	Define active period for the calculation by selecting a statement cycle and clicking this button.
Copy	Copy text to clipboard
Duplicate	Create a duplicate of the current statement cycle.
New	Add a new statement cycle.
Delete	Opens the current statement cycle and a pop-up dialog box to confirm deletion of the entry.

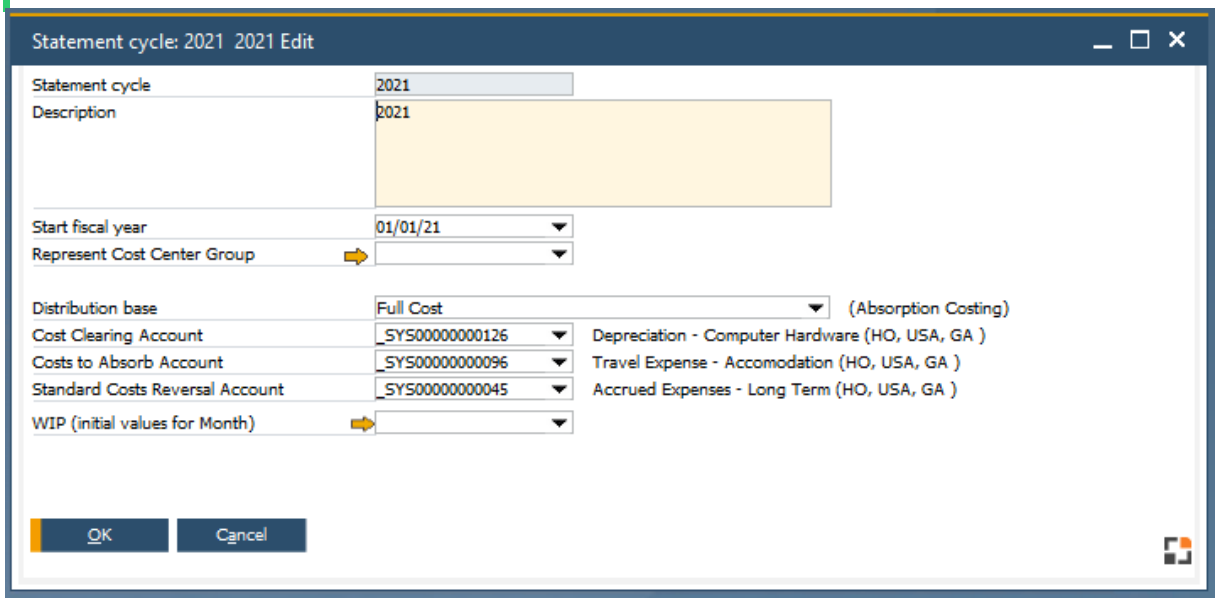
© 2026 Boyum IT Solutions A/S

Field	Description
Financial Data Summary	Open the Financial Data Summary window to see the financial data related to the selected Statement Cycle.  *Window bab_babwerte.psr*
Import/Export	Import or export the current statement cycle by providing an ID in a pop-up window.

4.2.6.1.1 Statement Cycle - Edit

In this window you can edit a statement cycle.

PATH: Financials > Business Performance > Master Data > Statement cycles > **Open** entry.



Window bab_abrid_edit.psr

Field descriptions

© 2026 Boyum IT Solutions A/S

Field	Description
Statement cycle	ID for statement cycle.
Description	Text field to describe statement cycle.
Start fiscal year	All Reports and computations are calculated using this date as the starting reference.
Distribution base	Basis for the structural representation of costs of an accounting unit. Costs are based upon this cost center group ***See*** cost center group.

If the system works with multiple branches:

Branch	Selection of a branch.

If "Absorption Costing" for Business Performance is defined in the Beas Configuration wizard:

Field	Description
Distribution base	Basis for the structural representation of costs of an accounting unit. Costs are based upon this cost center group ***See*** cost center group. Selection: - Marginal Cost - Full Cost - Hours. ***See*** Marginal and full costs concept.
Cost Clearing Account	Selection of the corresponding account.
Cost to Absorb Account	Selection of the corresponding account.
Standard Costs Reversal Account	Selection of the corresponding account.
WIP (initial values for Month)	Selection of a month to define the WIP initial values for the items Open the window to insert the values "Wip initial values/Prev.Month"

Buttons/Functions:

Field	Description
Delete statement cycle	Remove current statement cycle.
Copy statement cycle	Duplicate current statement cycle by adding a new ID.

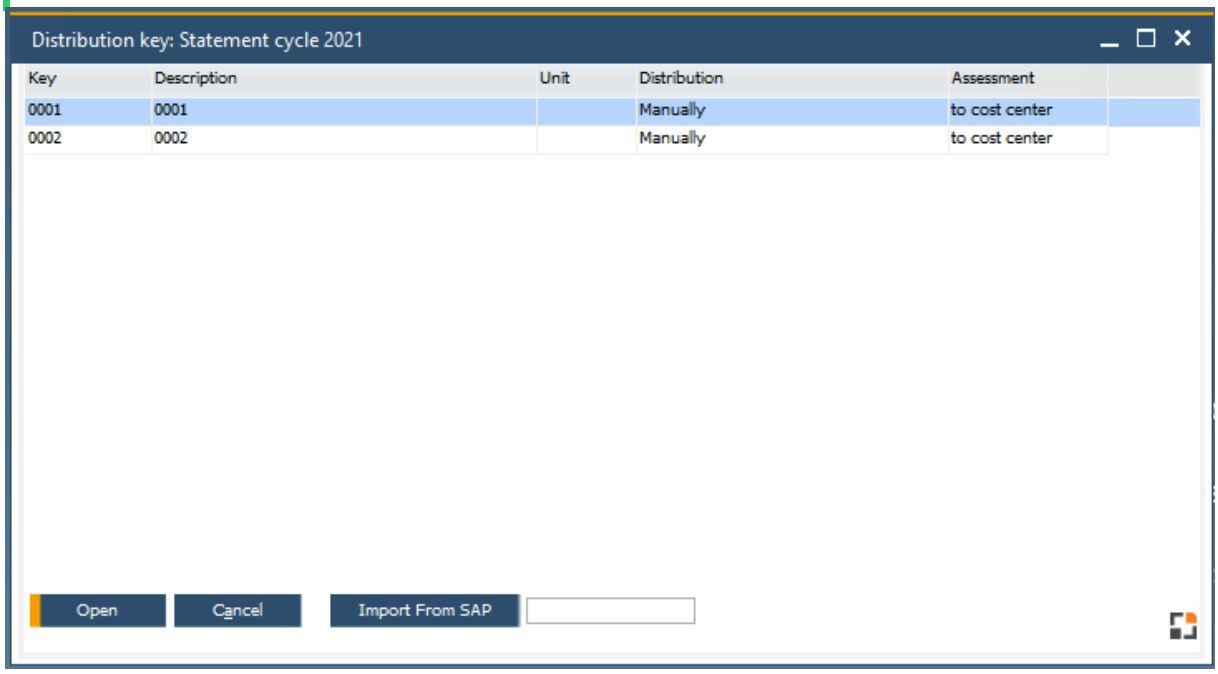
© 2026 Boyum IT Solutions A/S

4.2.6.2 Distribution Key

This window lists the keys required for distribution of cost elements and allocation of cost centers.

Settings: Absorption Costing - Setup

PATH: Financials > Business Performance > Master Data > Distribution key.



Window bab_vgr_browse.psr

Field description

Field	Description
Nr.	Code of the key master record.
Description	Text field for the description of the key.
Unit	Enter a unit, for example '€'. This unit is used only for identification; it is not processed in computation.
Distribution	Percentage distribution **manually:** - defined by user **automatically:** - by production hours per Cost Center - by production hours per Cost Unit
Assessment	Select shares in the cost:

© 2026 Boyum IT Solutions A/S

Field	Description
	- to cost center - to cost object

Initially, a key master record is defined independent of cost element/cost center. It contains all cost centers that receive their share of costs from this key. The keys can be assigned to multiple cost elements (distribution) or cost centers (shares).

Tabs	Description
Key	Definition of distribution key.
Period	Allocation of cost centers to months of statement cycle.

Buttons/Functions

Button/Function	Description
Open	Open Distribution key editing window.
Add	Create a new distribution key definition
Remove	Remove selected distribution key.
Import from SAP	Import Cost center definitions from SAP in the window that opens. Select any or all entries, click Apply and close the window. Import window - Field descriptions

Field	Description
Selection	Select cost center to import.
Distribution key	Distribution key of the cost center.
Description	Description
Cost Center	Cost Center ID
Quantity	Open value that can be used as a basis for distribution (to calculate the % of the distribution)
Valid from/to	The From – To dates of validity of the Distribution

© 2026 Boyum IT Solutions A/S

Button/Function	Description

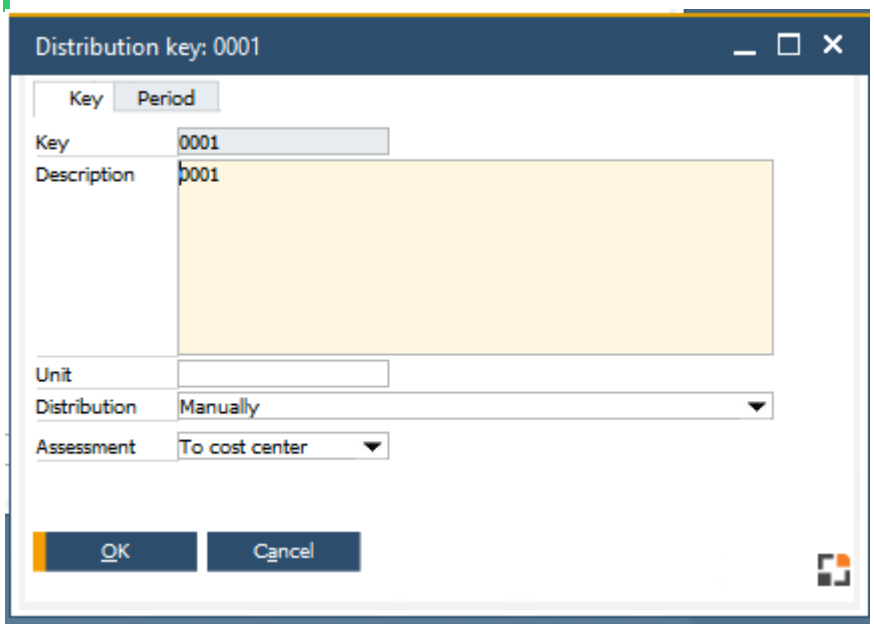
Field	Description
	key.
Active	Radio box is checked if Distribution key is active.
Apply	Click this button to import selected cost center definitions from SAP.
Select All	Select all entries in the window.

Window bab_kst_vgr_import_from_sap.psr

4.2.6.2.1 Distribution Key - Edit

Keys required for distribution of cost elements and allocation of cost centers are defined in this area.

PATH: Financials > Business Performance > Master Data > Distribution key > **Open** entry.



Window bab_vgr_edit.psr

Tab "Key"

© 2026 Boyum IT Solutions A/S

Field	Description
Key	Code of the key master record.
Description	Text field for the description of the key.
Unit	Text field to designate the type of key. For example: "%" for percentage distribution, "qm" for distribution per square meters. Unit is used only for identification, it is not processed in computation.
Distribution	percentage distribution **manually:** defined by user **automatically:** determined by SAP Business One
Assessment	Select a distribution key as cost unit.

Tab "Period"

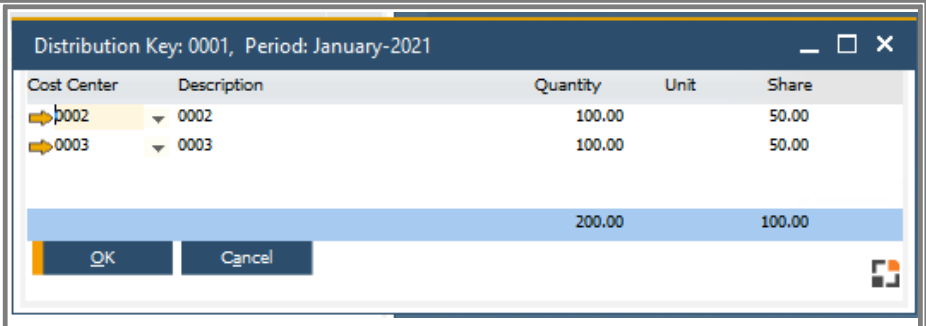
Window bab_vgrmonat_browse

Field	Description
Month/Year	Definition of month (STD: means "standard". All 12 months of the statement cycle The Standards (STD) can be administered separately if you wish to administrate monthly values on an individual basis.
Description	Text field for description.

Button/Function

Field	Description
Open	For the collection of cost centers which incur costs using this key. Access to this data is also possible from Cost centers. The data always refer to the selected key and selected month. Click **Open** to access distribution per the selected period:

© 2026 Boyum IT Solutions A/S

Field	Description
	 *Window bab_vvgr_browse.psr* **Field descriptions** **Field** / **Description** Cost Center / Cost Center Description / Text field for description. Quantity / Quantity Unit / Unit Share / The distribution among the costs received in the cost center.
Add	Insert a new period. Select a month from the dropdown of the opening window. *Window bab_vgrmonat_browse_new.psr*
Duplicate	Duplicate current distribution key. Add new ID in the pop-up definition window.
Entry delete	Remove current distribution key.
Preceding/Next entry	Navigate up and down in the list of distribution keys with the green arrows.

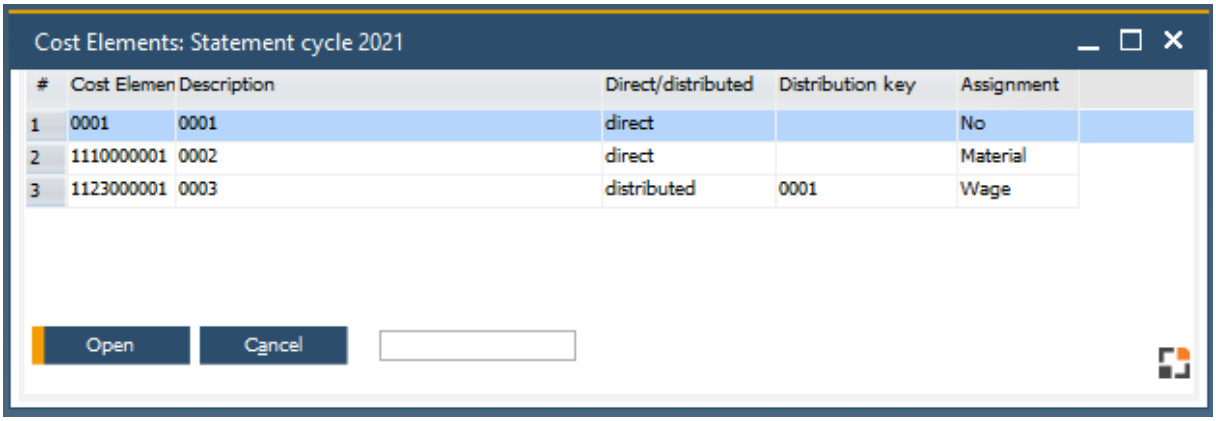
4.2.6.3 Cost Elements

This area is used to collect all cost elements contained in Business performance.

Settings: Absorption Costing - Setup

PATH: Financials > Business Performance > Master Data > Cost Elements

© 2026 Boyum IT Solutions A/S



Window bab_ka_browse.psr

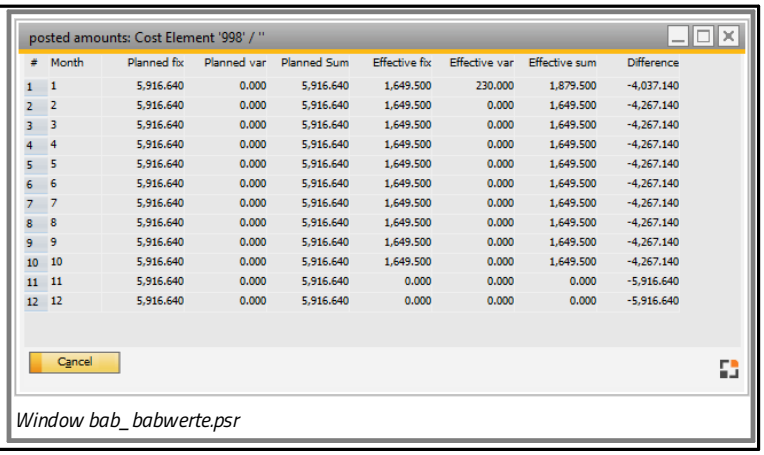
Field descriptions

Field	Description
Cost Element	Name of Cost Element.
Description	Text field for the description of the key.
Direct/distributed	Assignment (in brackets, value in database): direct (D) distributed (V) Auto (automatically) (A)
Distribution key	Designation of distribution key.
Assignment	Assignment (in brackets, value in database): Material (M) Volume of sales (U) Wage (L) No (N)

Buttons/Functions:

Field	Description
Open	Opens the Cost Element: XX editing window.
Add	Add a new cost element.
Duplicate	Duplicate selected cost element.
Remove	Remove selected cost element.
Financial Data Summary	Open the Financial Data Summary window to see the financial data related to the selected Cost element.

© 2026 Boyum IT Solutions A/S



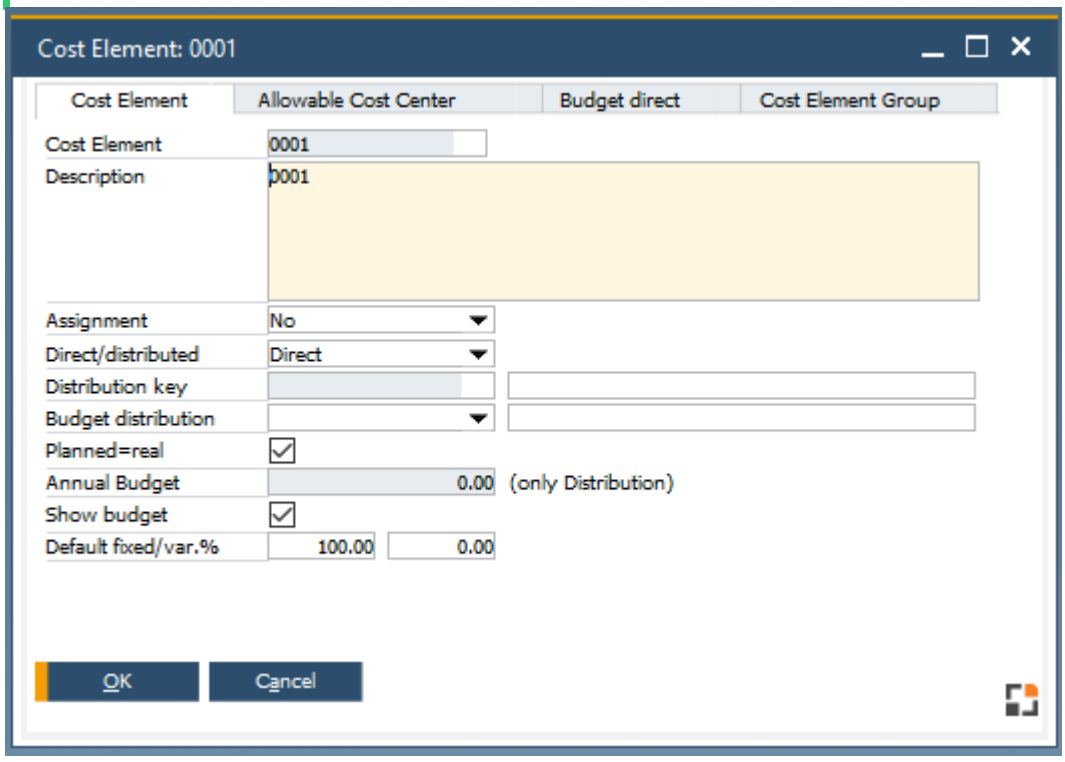
Window bab_babwerte.psr

Window settings are supported.

4.2.6.3.1 Cost Elements - Edit

In this window you can edit cost elements.

PATH: Financials > Business Performance > Master Data > Cost Elements > **Open** an entry.



Window bab_ka_edit.psr

Tabs

Tab	Meaning
Cost element	Definition of cost element.

© 2026 Boyum IT Solutions A/S

Allowable Cost Center	Definition of fix and variable parts per cost center.
Budget direct	Direct budgets.
Cost Element Groups	Shows which cost center groups this cost center belongs to.

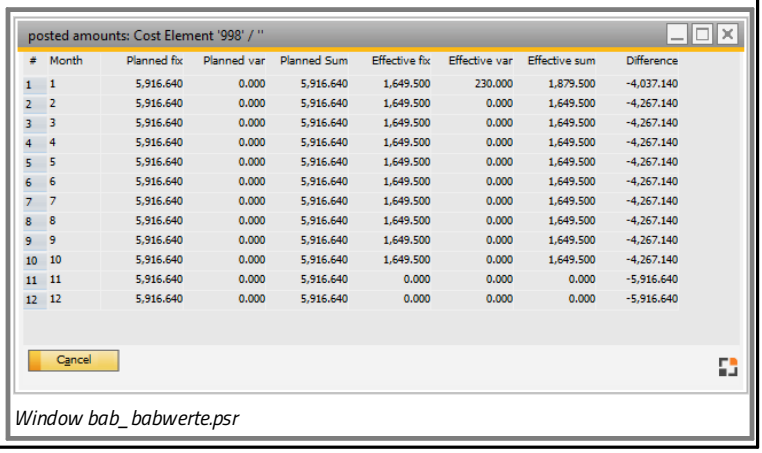
Tab "Cost element"

Field/Function	Meaning
Cost Element	Identifier number, does not need to match the account number in financial accounting.
Description	Description of cost element.
Assignment	Specifies the assignment of the cost element: ■ Wage: Direct wage costs, ■ Material: Direct material ■ Volume of sales ■ No
Direct/distributed	Determines whether this cost element should be booked directly to the cost center or distributed using a key or defined automatically . If it is distributed using a key, this can be selected here. An appropriate key must be defined first in Distribution Keys.
Distribution key	Enter the distribution key master number for the cost distribution of this cost element. The name from the key master record is displayed.
Budget distribution	Identification code of a table to distribute the annual budget to the months. These tables are administered in Cost allocation. If the field remains empty, the annual value is divided into twelve equal parts.
planned=actual	planned costs = actual costs Defines whether cost differences between budget and actual values will be displayed.
Annual budget (only Distribution)	Annual budget available for this cost element when distributed using a key. Budgets which can be distributed directly are assigned to appropriate cost centers using the “Budget direct” function.
Show budget	Selection: Budgets to be displayed.

© 2026 Boyum IT Solutions A/S

Default fix/var. %	Defines the defaults occurring while registering fixed and variable shares per cost center.
Add	Right-click function to create a new Cost element.
Duplicate	Right-click function to create a new Cost element by copying the values of the current one.
Remove	Right-click function to delete current Cost element entry.

Tab "Allowable Cost Center"

Field/Function	Meaning
Cost Center	Code of the cost center for which the shares should be defined.
Description	Description of the cost center.
Fix %	Percentage share of the fixed costs of the cost element. Note: Line total for Fix and Var % must be 100.
Var %	Percentage share of the variable costs of the cost element. Note: Line total for Fix and Var % must be 100.
Update	
Selection	
Add	Right-click function to add a new cost element.
Remove	Right-click function to remove currently selected cost element.
Cross reference	Right-click function to open the posted amounts regarding the actual cost element.  *Window bab_babwerte.psr*

Tab "Budget direct"

Field	Meaning

© 2026 Boyum IT Solutions A/S

Cost Center	Code of the cost center for which the shares should be defined.
Description	Description of the cost center.
Budget	Defined direct budget.

Tab "Cost Element Group"

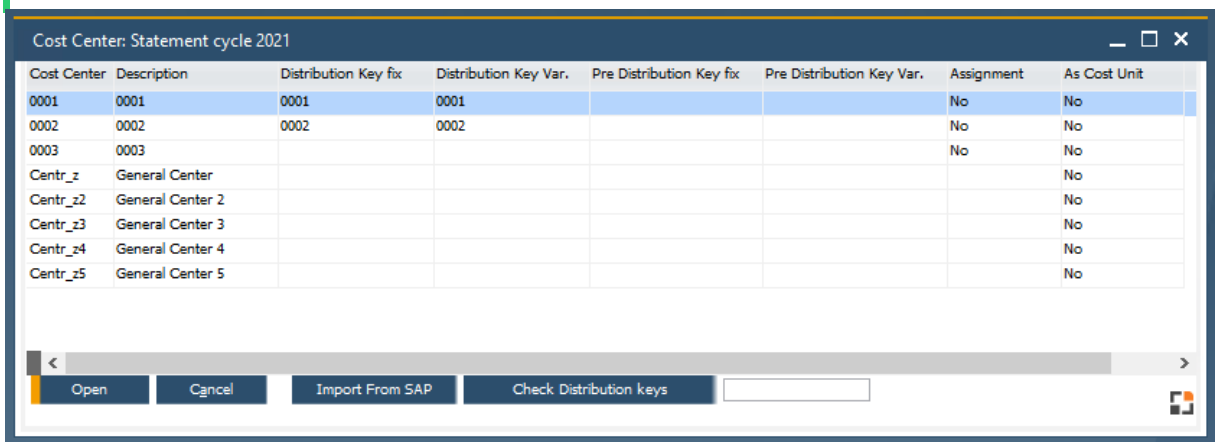
Field	Meaning
Cost Element Group	Code of the Cost Element Group for which the shares should be defined.
Description	Description of the Cost Element Group.
Position	Position.

4.2.6.4 Cost Center

This sub-program is used to record all cost centers.

Settings: Absorption Costing - Setup

PATH: Financials > Business Performance > Master Data > Cost Center.



Window bab_kst_browse.psr

Buttons/Functions

Button	Description
Import from SAP	Import Cost center definitions from SAP in the window that opens. Select any or all entries, click Apply and close the window. Field Descriptions

© 2026 Boyum IT Solutions A/S

Button	Description
	<table><tr><th>Field</th><th>Description</th></tr><tr><td>Selection</td><td>Select cost center to import.</td></tr><tr><td>Description</td><td>Description of cost center</td></tr><tr><td>Cost Center</td><td>Cost Center ID</td></tr><tr><td>Valid from/to</td><td>The From – To dates of validity</td></tr><tr><td>Active</td><td>Checked if Cost center is active</td></tr><tr><td>Apply</td><td>Click this button to import selected cost center definitions from SAP.</td></tr><tr><td>Select All</td><td>Select all entries in the window.</td></tr></table> *Window bab_kst_import_from_sap.psr*
Check Distribution keys	Perform master data checks and correct errors in the opening window if necessary. Note that the master data checks will be run by Beas also at the time the AC calculation report is executed. If the above rules are not respected, a blocking message is displayed, and the AC Cost report IS NOT CALCULATED. You must correct the master data before you can run a new Absorption Costing calculation.
Add	Create a new cost center.
Remove	Remove selected cost center.
Duplicate	Create a duplicate of the selected cost center.
Reports	Open Reports.
Cancel	Close window without saving changes.
Search field	Search for cost centers in the list.

Field Descriptions

Field	Description
Cost Center	Master code of cost center.

© 2026 Boyum IT Solutions A/S

Field	Description
Description	Text field for describing the cost center.
Distribution key fix	Distribution key: fixed. Distribution keys for distributing fixed costs shares. The keys must have previously been defined in Distribution Keys. The cost center will not be distributed if no key is defined. **Note:** A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.
Distribution key var.	Distribution key: variable. Distribution keys for distributing variable costs shares. The keys must have previously been defined in Distribution Keys. The cost center will not be distributed if no key is defined. **Note:** A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.
Pre-Distribution key fix	Pre-distribution key: Fixed master code of the distribution keys for the appropriate cost elements. These distribution keys need to be defined before in the Distribution Keys The cost center will not be pre-distributed if no key is defined. **Note:** A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.
Pre-Distribution key .var	***See*** above (same for variable costs).

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.
Assignment	Possible Assignments: - Labor Cost (only direct labor costs) - Material (only direct material costs) - No (no allocation).
As Cost Unit	Definition whether this cost center shall be a cost unit. (Y/N) For Absorption Costing purposes, it is recommended to set all Center Centers with setting "As Cost Unit"⇤ No. If you are using the other Business Performance features, you might set it to yes when needed.

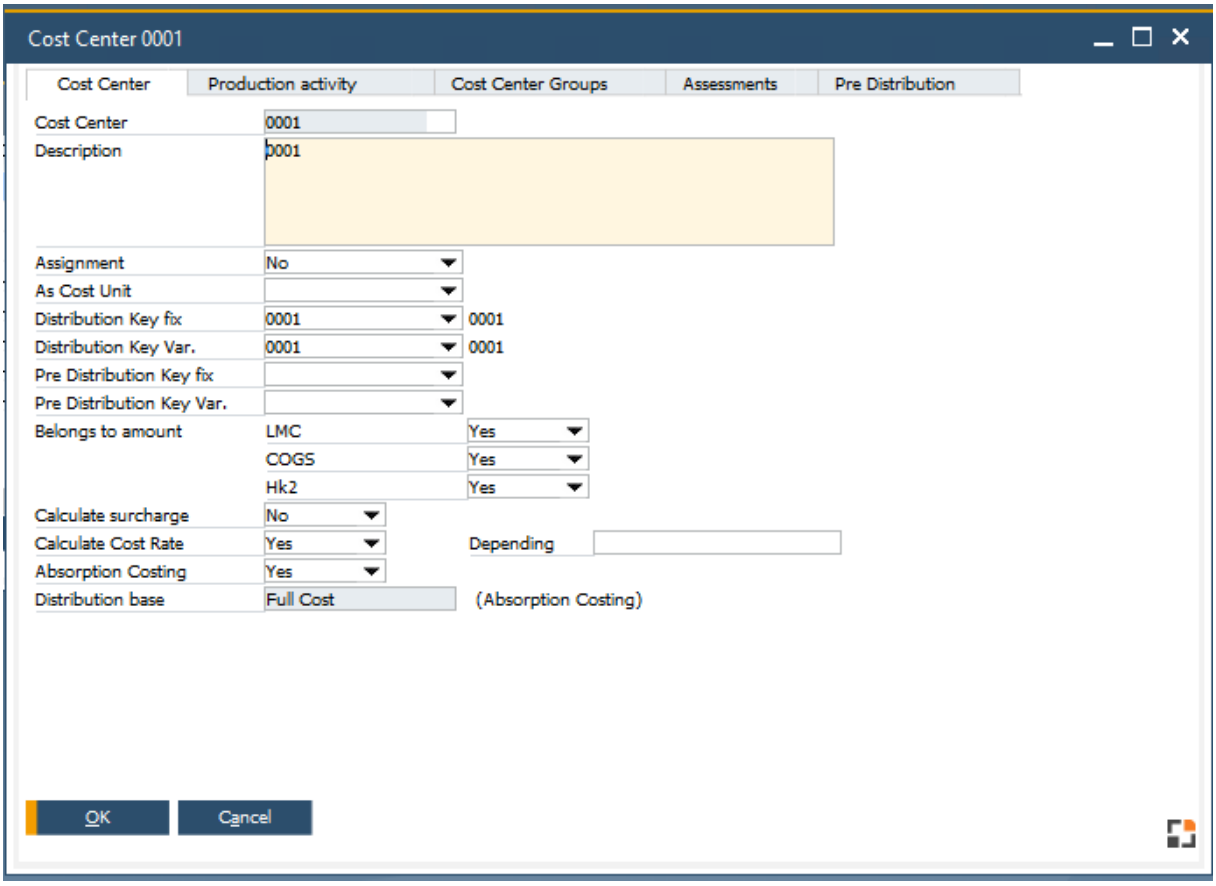
Pre-distribution defines whether costs can be distributed to a cost center with a main cost center code or subordinate cost center code, and whether these costs are redistributed by the cost centers in the main distribution.

4.2.6.4.1 Cost Center - Edit

In this window you can edit a cost center.

PATH: Financials > Business Performance > Master Data > Cost Center > **Open** an entry.

© 2026 Boyum IT Solutions A/S



Window bab_kst_edit.psr

Tabs

Tabs	Description
Cost Center	Definition of cost center.
Production activity	Definition of production activity.
Cost center groups	To which cost center group this cost center belongs.
Assessments	Display of received cost center.
Pre-Distributions	Display of received cost center.

Tab "Cost center"

Field	Description
Cost Center	Cost center ID
Description	Text field for describing the cost center.
Assignment	Identification of the type of costs assigned to this cost center: - Labor Cost (only direct labor costs)

© 2026 Boyum IT Solutions A/S

Field	Description
	- Material (only direct material costs) - No (no allocation).
As Cost unit	Definition whether this cost center shall be a cost unit.
Distribution key fix	Possibility to assign a fixed distribution key. **Note:** A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.
Distribution key var.	Possibility to assign a variable distribution key. **Note:** A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.
Pre Distribution key fix	Possibility to assign a fixed pre-distribution key. **Note:** A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.
Pre Distribution key var.	Possibility to assign a variable pre-distribution key. **Note:** A cost center **cannot** have a distribution and a pre-distribution key at the same time! A cost center with either a distribution or pre-distribution key **must be** set to "As Cost Unit" = No. ***See*** setting below. A cost center **cannot** have a distribution or pre-distribution key that distributes to the cost center itself.

© 2026 Boyum IT Solutions A/S

Field	Description
Belongs to amount of LMC costs	Defines whether the costs of the cost center should be added into the base for manufacturing costs. As a rule, this applies only to manufacturing cost centers.
Belongs to amount of production costs (COGS)	Defines whether the costs of the cost center should be added into the base for production costs. As a rule, this applies only to materials and production cost centers.
Belongs to Sum of production costs 2 (HK2)	Defines whether the costs of the cost center should be added into the base for production costs 2. Production costs 2 are an additional surcharge base.
Calculate surcharge	Here you can specify the value for the surcharge calculation in the Business performance run. All costs of this cost center are set in relation to: **Wage**: Total cost of the cost center – Direct labor cost – manufacturing materials / direct labor cost * 100 **Material**: Total cost of the cost center – Direct labor cost – manufacturing materials / manufacturing materials * 100 **Non Material Mfg Cost (LMC)**: Total cost of the cost center / base manufacturing costs * 100 **Production Cost (COGS):** Total cost of the cost center / base production costs * 100 **Production costs 2 (HK2):** Total cost of the cost center / base production costs 2 * 100 'No' no calculation of a surcharge
Calculate Cost Rate	**"Yes"** To calculate a (service) hourly rate (total costs of the cost center/sum of total recorded service hours of the cost center) **“No”** No calculation of a (service) hourly rate on the basis of Text field for storing a base for the cost rate calculation, for example “piece” or “hour”. Additionally, this field defines the base the cost rate calculation refers to.
Absorption Costing	Usage of the Cost Center of Absorption Cost.

© 2026 Boyum IT Solutions A/S

Field	Description
	(If "Absorption Costing" for Business Performance is defined in the Beas Configuration wizard).

Right-click Functions

Function	Description
Duplicate	Duplicate selected cost center.
Remove	Remove selected cost center.
Preceding/Next entry	Go to the previous or next Cost center editing options.

Tab "Production activity"

Field	Description
Month/Year	Month/Year.
Planned	Planned monthly value of the basic quantity on this cost center.
Effective	Actual monthly value of the basic quantity on this cost center.
Difference	Difference (actual – planned).

Data can serve to determine planned cost rates. Actual hours are taken from wage accounting interface or registered manually.

Tab "Cost center groups"

Field	Description
Cost Center Group	Cost center group.
Description	Description of cost center group.
Cost rate	Cost rate of the cost center group.
Surcharge	Surcharge.

Tab "Assessment"

Field	Description
Receiving cst ctr.	Received cost center.
Description	Description of received cost center.

Tab "Pre Distribution"

© 2026 Boyum IT Solutions A/S

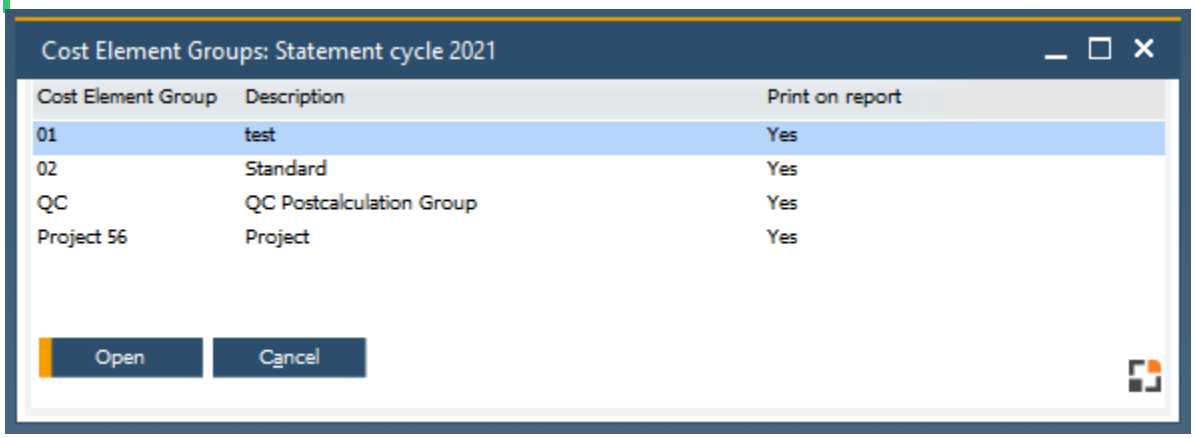
Field	Description
Receiving cst ctr.	Pre-distributed cost center.
Beas Business Performance Cost Center Description	Description of pre-distributed cost center.

4.2.6.5 Cost Element Groups

Cost element groups are defined here for which any costs or income types are totaled after a Business performance run. They can then be printed with the Report Cost Center Report in the Result Menu. Cost element groups are also required in the short-term income statement.

Settings: Absorption Costing - Setup

PATH: Financials > Business Performance > Master Data > Cost Element Groups



Window bab_kagrk_browse.psr

Field	Description
Cost Element Group	Cost element group.
Description	Description of cost element group.
Print on report	Yes/No check box. Add this group as a sum row into Business performance report.

Buttons and right-click functions

Function	Description
Open	**Open** the Cost Element Group XX: Statement cycle XX" editing window.
Duplicate	Duplicate selected cost element group.

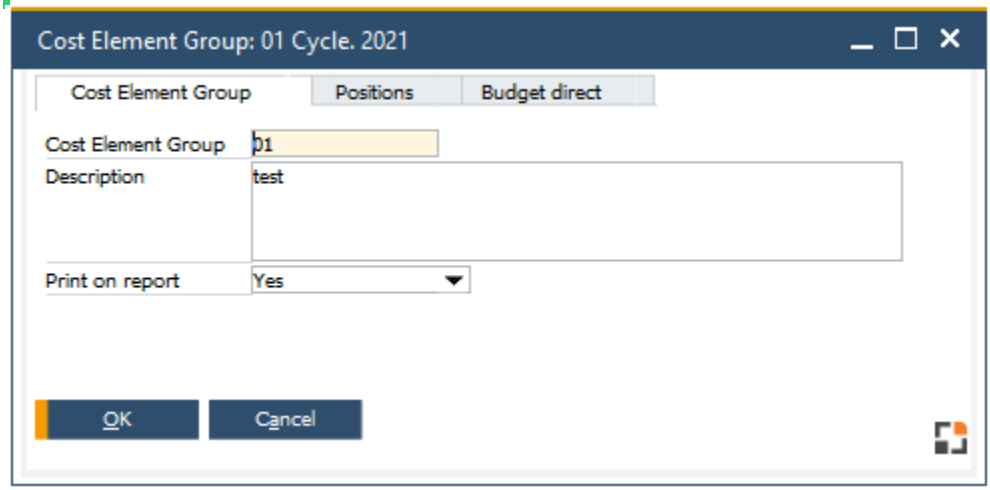
© 2026 Boyum IT Solutions A/S

Function	Description
Remove	Remove selected cost element group.
Add	Create new cost element group.

4.2.6.5.1 Cost Element Group - Edit

In this window you can edit a cost element group.

PATH: Financials > Business Performance > Master Data > Cost Element Groups > **Open** an entry.



Window bab_kagrk_edit.psr

Tabs

Tab	Description
Cost element group	Definition of cost element group.
Positions	Definition of assigned cost elements.
Budgets direct	Display defined cost center budgets.

Tab "Cost element group"

Field	Description
Cost Element Group	Cost Element Group.
Description	Description of the Cost Element Group.
Print in report	Add this group as a sum row into the Financial Data Summary report.

Right-click Functions

© 2026 Boyum IT Solutions A/S

Function	Description
Add	Add new Cost Element Group.
Duplicate	Duplicate selected cost element group.
Remove	Remove selected cost element group.

Tab "Positions"

Field/Function	Description
Pos	Position of cost element in the group.
Cost element	Enter cost element. The opens the Cost Elements window.
Description	Description of cost element.
Add	Add new position line in the list.
Remove	Remove selected position.

Tab "Budget Direct"

Field	Description
Cost center	Cost centers.
Description	Description of the cost center.
Budget	Display defined direct budget of the cost centers.

Window settings are available in this tab.

Direct budget:

Beas Business performance enables the calculation of a planned Business performance in parallel to the calculation of actual costs. Plan data are administered here and in the master data of the cost elements.

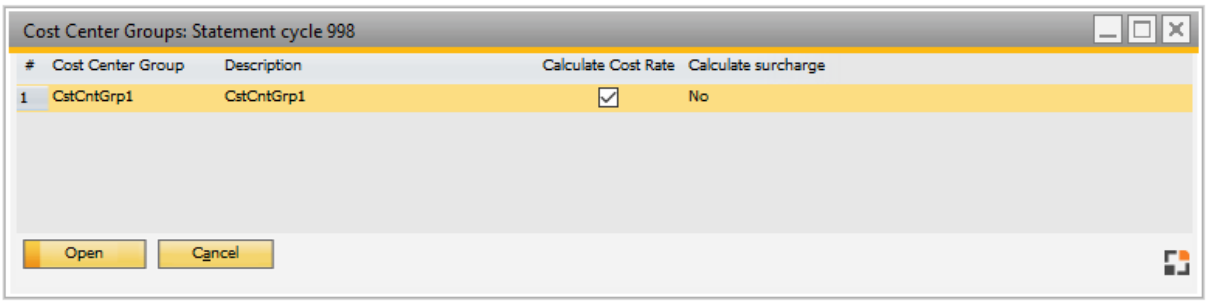
4.2.6.6 Cost Center Groups

In this window it is possible to define cost center groups. After a Business performance run, arbitrary cost centers can be summed up for these groups and printed in the subroutine “Reports”. The cost center groups can be used again in the calculation of the average cost rates and in a short term income statement.

Settings: Absorption Costing - Setup

PATH: Financials > Business Performance > Master Data > Cost Center Groups

© 2026 Boyum IT Solutions A/S



Window bab_kstgrk_browse.psr

Field Descriptions

Field	Description
Cost Center Group	Cost center group.
Description	Text field to describe cost center group.
Calculate Cost rate	Activate check box to calculate cost rate. (Yes/No)
Calculate Surcharge	Reference for surcharge calculation for this cost center group.

Right-click functions

Function	Description
Open	Open the "Cost Center Group: test" editing window
Add	Create a new Cost center group.
Remove	Remove selected Cost center group.
Duplicate	Create a new Cost Center group based on the attributes of the current one.

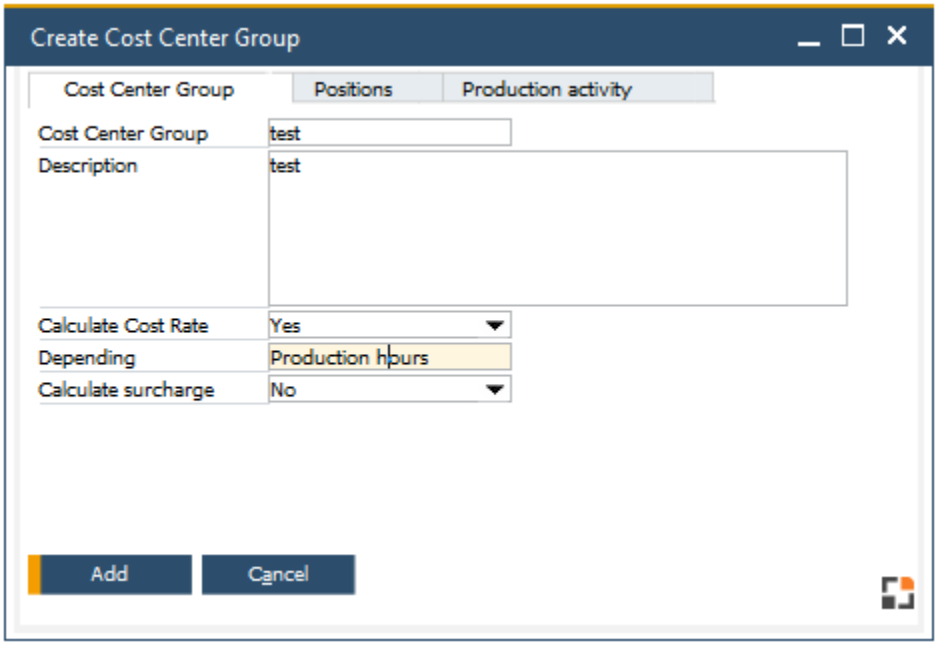
Window settings are available.

4.2.6.6.1 Cost Center Group - Edit

In this window you can edit or create a Cost Center Group.

PATH: Financials > Business Performance > Master Data > Cost Center Groups > **Open** an entry.

© 2026 Boyum IT Solutions A/S



Window bab_kstgrk_edit.psr

Tabs

Tabs	Description
Cost Center Group	Definition of cost center group.
Positions	Definition of assigned cost centers.
Production activity	Definition of production activities.

Tab "Cost Center Group"

Field	Description
Cost Center Group	Cost Center Group.
Description	Description of cost center group.
Calculate Cost Rate	For the calculation of an hourly group rate (total costs of the cost center group / total manufacturing time of the cost center group) Yes/No.
Depending	For the calculation of an hourly group rate (total costs of the cost center group / total manufacturing time of the cost center group).
Calculate surcharge	Here you can specify the reference basis for this cost center group during the surcharge calculation of the Business performance run.

© 2026 Boyum IT Solutions A/S

	Total costs from this cost center group are set in relation to: ■ Manufacturing costs * 100 (LMC) ■ Production costs * 100 (COGS) ■ Production costs2 * 100 (HK2) ■ No calculation of a surcharge.
Right-click functions	**Add**: Create a new Cost center group. **Duplicate**: Create a new Cost Center group based on the attributes of the current one. **Financial Data Summary**: Opens a window to display the financial data of the selected Cost Center Group in the selected Statement Cycle. *Window bab_babwerte.psr*

Tab "Positions"

Field	Description
Pos	Position of cost center in group. Once selecting/entering the Cost Center, you can click the to edit its definitions. ***See*** Cost Center. **Add** right-click function: Create a new position by selecting a Cost Center. **Remove** right-click function: Delete selected position.
Cost center	Enter/select cost center.
Description	Description of the cost center.

Tab "Production activity"

Field	Description
Month/Year	Month and year.
Planned	Planned monthly value of the basic quantity on this cost center group.
Effective	Actual monthly value of the basic quantity on this cost center group.
Difference	Difference (effective – planned).

Copy right-click function: Copy Month/Year information on clipboard

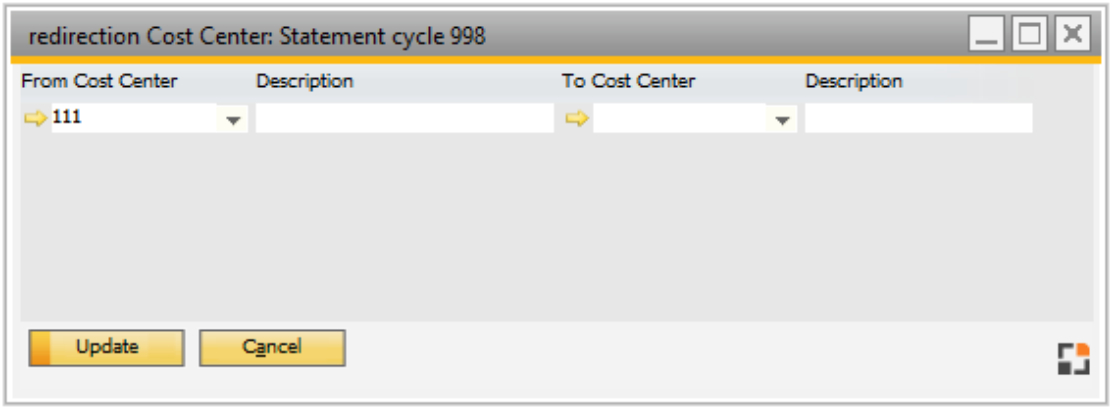
© 2026 Boyum IT Solutions A/S

4.2.6.7 Redirection Cost Center

The assignment of SAP Business One accounts to Business performance cost elements (if enabled in the options) takes place here.

If no cost element is assigned, the postings from the external finance accounting solution are ignored. Each error code resulting from this outside assignment will be automatically indicated after every Business performance run. Account codes can be summarized by consolidating them with other account codes in a cost element. The conversion takes place when data from payroll or financial accounting records in the subroutine “monthly values” are imported.

PATH: Financials > Business Performance > Master Data >



Window bab_kst_zu_browse.psr

Field/Function descriptions

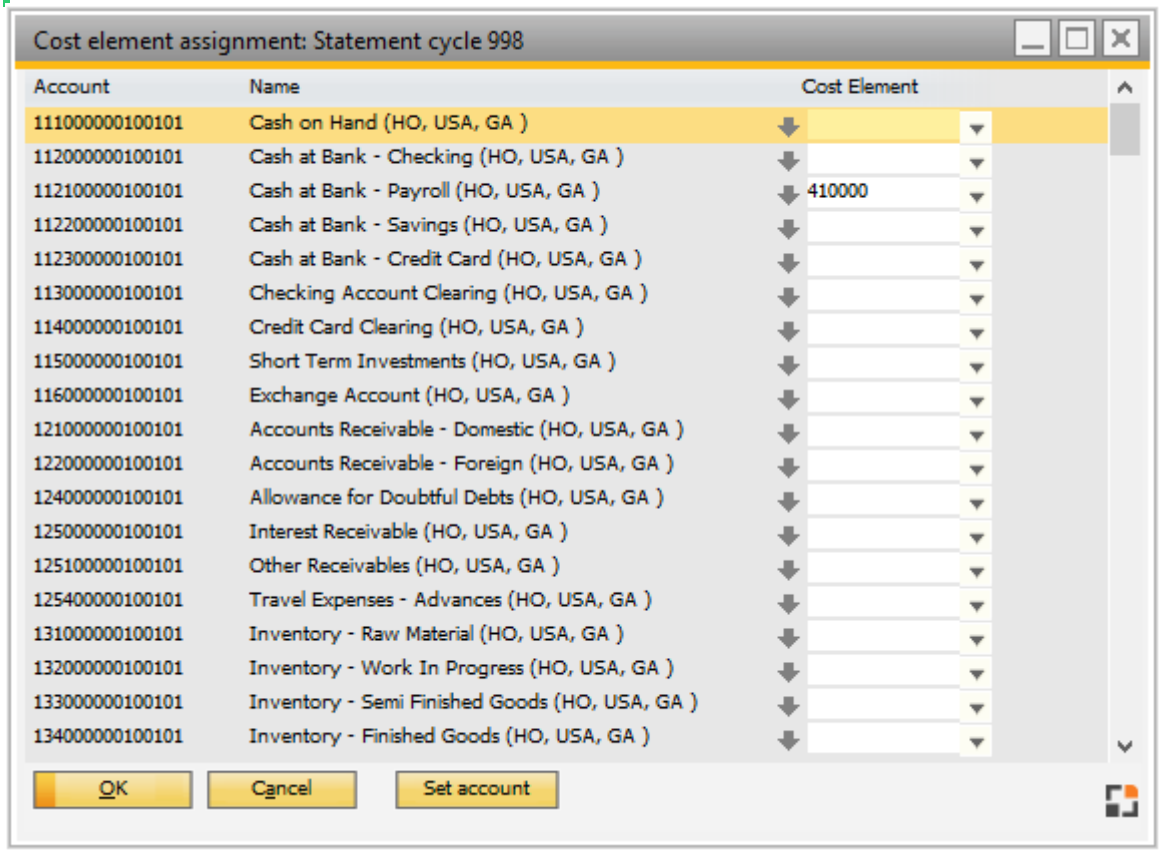
Field	Description
from Cost center	Cost centers or payroll codes, which are administered by finance or payroll accounting programs.
Description	Description "from cost center".
To cost center	Code of a Business performance cost center created in cost centers subroutine as a master record. This designation is displayed automatically. If the "To Cost Center" field is not filled in, accounting records for the cost centers are not included.
Description	Description "to cost center".
Update	Button to save changes.
Add	Right-click function to add new cost center assignment.
Remove	Right-click function to delete selected cost center assignment.

© 2026 Boyum IT Solutions A/S

4.2.6.8 Cost Element Assignment

The assignment of SAP Business One accounts to Business performance cost elements (if enabled in the options) takes place here.

PATH: Financials > Business Performance > Master Data > Cost element assignment.



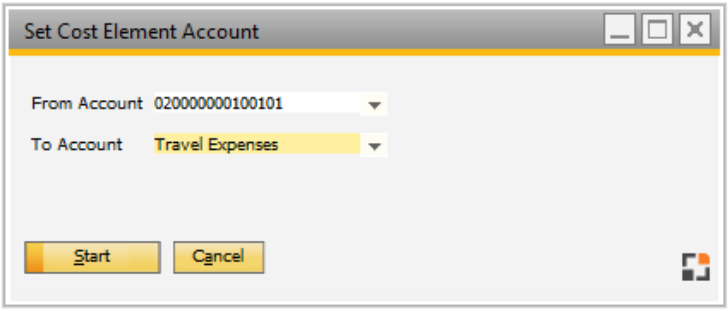
Window bab_konto_kstst_edit.psr

If no cost element is assigned, the postings from the external finance accounting solution are ignored. Each error code resulting from this outside assignment will be automatically indicated after every Business performance run. Account codes can be summarized by consolidating them with other account codes in a cost element. The conversion takes place when data from payroll or financial accounting records in the “monthly values” subroutine are imported.

Field/Function descriptions

Field	Meaning
Account	Account code which is administered in the finance or payroll accounting program.
Name	Description of "cost center".

© 2026 Boyum IT Solutions A/S

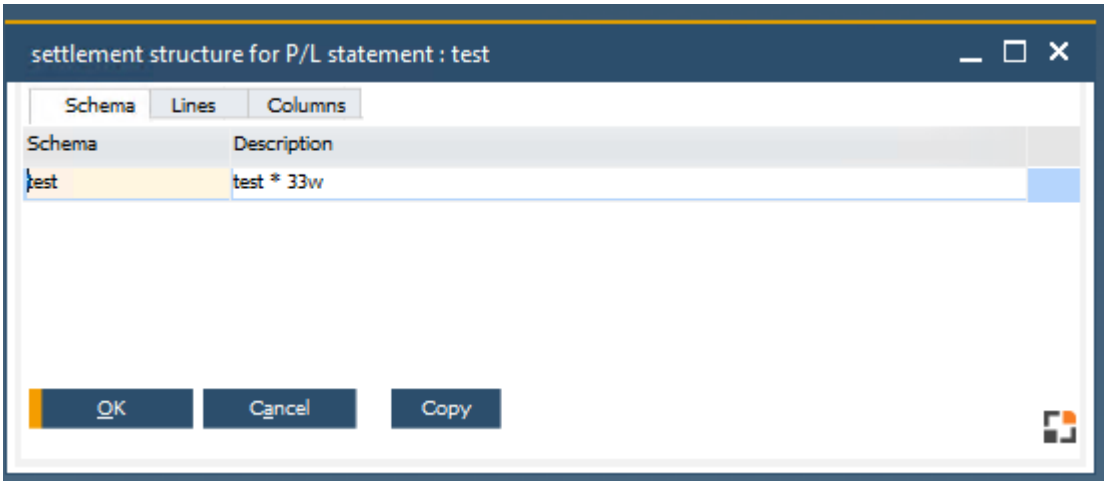
Cost element	Cost element set up as a master record in the cost elements. The description of the cost element is shown. If this field is not filled in, the records for the accounts will not be imported.
Set account	Set Cost Element Account The button opens this window to set  *Window bab_konto_kstst_batch.psr* **Start:** For the specific situations in which the Cost Elements are created with the same ID as the accounts from the Chart of Accounts, it is possible to perform an automatic match between the Chart of Accounts and the Cost Elements. This window allows the user to select an account interval for which Beas will define the corresponding Cost Element to each account within it. Select the 2 values to match and click the **Start** button.

4.2.6.9 Settlement structure for P/L statement

For Beas-profit / loss statement you need to define rows (with cost centers, cost elements, sums) and columns (with cost units and sums), which later will present results in a matrix. Various schemes allow customized displays.

PATH: Financials > Business Performance > Master Data > Settlement structure for P/L statement.

© 2026 Boyum IT Solutions A/S



Window bab_struktur_list_def.psr

Tabs

Tab	Meaning
Schema	Definition of schema.
Lines	Definition of rows.
Columns	Definition of columns.

Schema tab

Field	Meaning
Schema	Name of schema.
Description	Text to designate schema.

Lines tab

Field	Meaning
Line	Ascending position number of the line (as later in report).
Object	Via "right-click" you can select from a list of objects: Available objects: **- Title:** serves as header, to allow grouping in profit / loss statement **- Cost center:** selected cost center will be is used in this line of the matrix **- Cost center group:**

© 2026 Boyum IT Solutions A/S

	see cost center **- Cost element:** ***see*** cost center **- Cost element group:** ***see*** cost center - Assessment: ***see*** cost center **- Sum:** display sum of row values, which are defined by entering the position number (comma separated) **- Sum %:** percentage of 2 row values.
Selection	Via "right-click" you can access a list of selections. They refer to the entry in field "object" Available selections: **- for object "Category":** Field "selection remains empty **- for object "cost center":** possible cost centers for field "selection" are displayed **- for object "cost center group":** ***see*** cost center. **- for object "cost element":** see cost center **- for object "cost element group":** ***see*** cost center **- for object "assessment":** ***see*** cost center **- for object "Sum"**: enter position numbers to be used for summation by separating them with a comma **- for object "Sum %":** enter 2 position numbers, comma separated which shall contain the percentage reference ***Example:*** Pos 10 is %-share of Pos 20 -> Enter: 10,20
Description Line	Text field to define row designation in P/L statement.

© 2026 Boyum IT Solutions A/S

Special buttons

Button	Meaning
Renumber	Renumbering in steps of 10 (sum objects are adapted as well).
Refresh	Read in new data .

Columns tab

Field	Meaning
Column	Ascending line position number.
Value	Via "right-click" the following values are available for selection: **- Cost unit list:** All cost centers are displayed, which were marked as cost unit. **- Sum:** Sum of row values, defined by entering comma separated position number.
Selection	Via "right-click" the following selection is available. **- Budget:** Display budgets of the defined cost unit **- Current:** Display currently determined values of the defined cost unit.
Description column	Text field to define row description in P/L statement.

4.2.7 Monthly Values

Here, data from financial accounting, wage and payroll accounting can be taken from the interface, corrected, distributed across multiple months and cost centers or recorded manually. The interface and rate description is configured in the help program "Administer Program Parameters" / "Manage Business performance Parameters". When performing Business performance, the data is checked for correctness and the result is documented in the error list. There is no such check in the interface itself. Financial accounting or wage / payroll account code to the cost element is allocated in the subroutine “Allocation account code > Cost element” of the master data record administration.

Settings: Absorption Costing - Setup

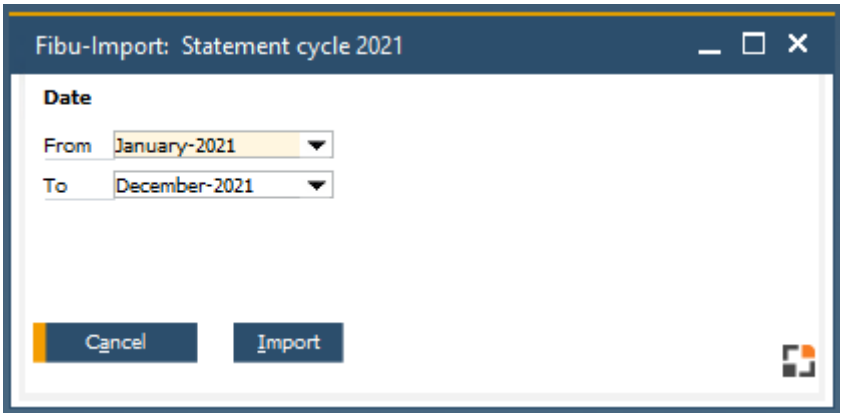
- Financial Data
- Wage Data
- SAP Business One Import

© 2026 Boyum IT Solutions A/S

- import of Production activities

4.2.7.1 SBO Import

PATH: Financials > Business Performance > Monthly Values > SBO financial import.



Window bab_fibuimport_start.psr

Within the listed time period all journal postings are imported from SAP Business One. The data records are inserted into the table "Financial accounting data". If a time period is to be read again, all data must be deleted first with the function "Delete batch".

See SBO Import Workflow

For the Import of the data a selection of the period via the drop down lists is necessary.

By pressing the button **Import** the action is executed.

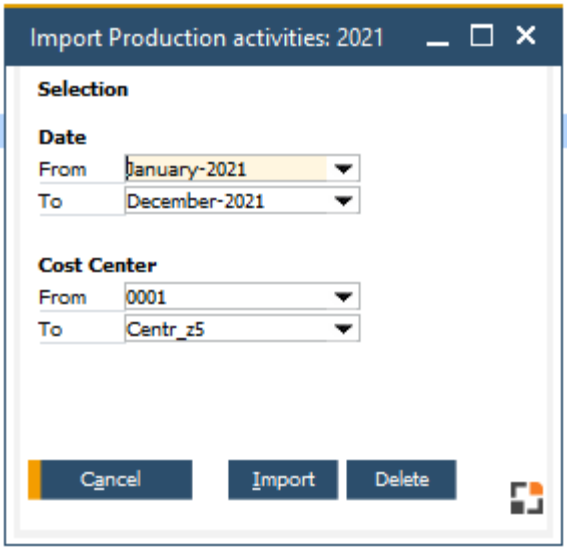
4.2.7.2 Import Production activities

Within the listed time period all journal postings are imported from SAP Business One. The data records are processed for the Business performance and inserted into tables.

See SBO Import Workflow

PATH: Financials > Business Performance > Monthly Values > Import Production activities.

© 2026 Boyum IT Solutions A/S



Window bab_fertigungsleistungen.psr

For the Import of the data a selection of the period and cost centers via the drop-down lists is necessary.

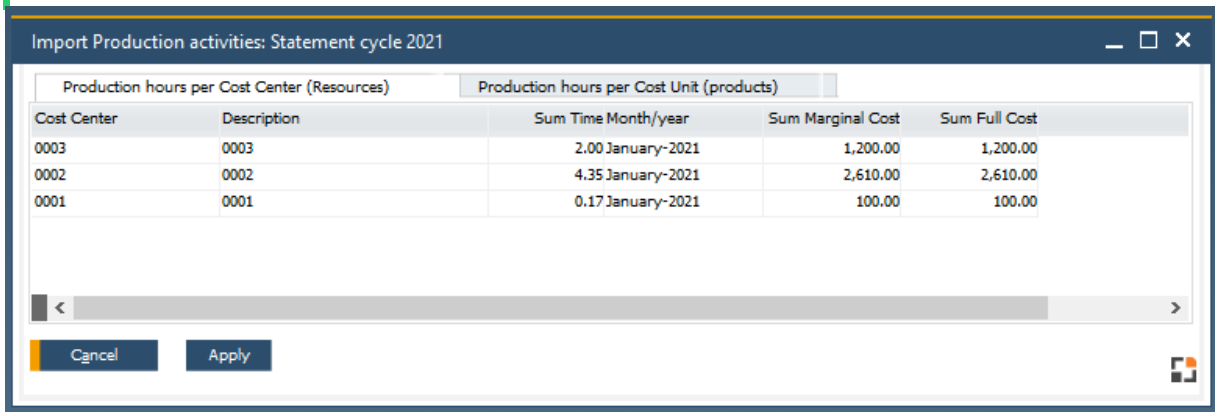
Functions

Function	Description
Import	Execute the import process. The Import Production activities: Statement cycle XXX opens.
Delete	Delete the production activities for the defined period.

4.2.7.2.1 Import Production Activities - execute

In this window you can see a preview of production activities to be imported.

PATH: Financials > Business Performance > Monthly Values > Import Production activities > **Import** button.



© 2026 Boyum IT Solutions A/S

Window bab_fert_leist.psr

Production hours per Cost Center (Resources) tab

Field	Description
Cost Center	Cost Center ID
Description	Description of the Cost Center
Sum Time Month/Year	The sum of hours for the selected cost center in the selected month/year.
Sum Marginal Cost	The sum of marginal costs for the selected cost center in the selected month/year.
Sum Full Cost	The sum of full costs for the selected cost center in the selected month/year.

Apply: Click the button to apply changes and execute the import of production activities in the list.

Production hours per Cost Unit (Products) tab

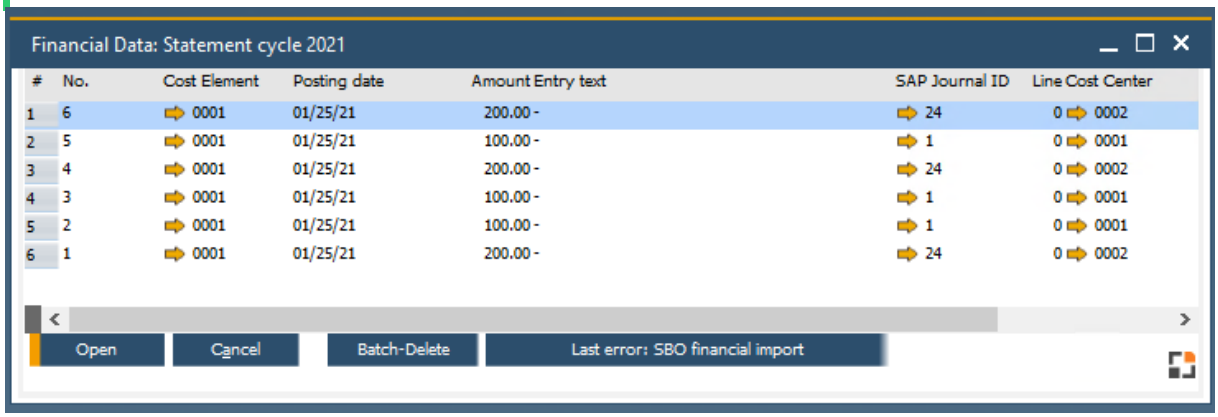
Field descriptions: ***see*** above.

4.2.7.3 Financial data

The data for financial accounting are either recorded via interface from external applications, or recorded manually.

See Financial Data Workflow

PATH: Financials > Business Performance > Monthly Values > Financial Data.



Window bab_fibu_browse.psr

Field descriptions

© 2026 Boyum IT Solutions A/S

Field	Description
No.	Counter, automatically assigned.
Cost element	Cost element ID, to which these costs are assigned to. The cost element must be stored as master data set in Cost elements. Importing data from SAP Business One the assignment to cost element is done in **Assignment account number > cost element** of master data administration.
Posting date	Day/Month/Year Booking date from financial accounting.
Amount	Booked amount.
Entry text	Additional text and remarks to this booking.
SAP Journal ID	SAP Journal ID
Line	
Cost Center	Cost center selected
Branch	Branch information

Buttons/Functions

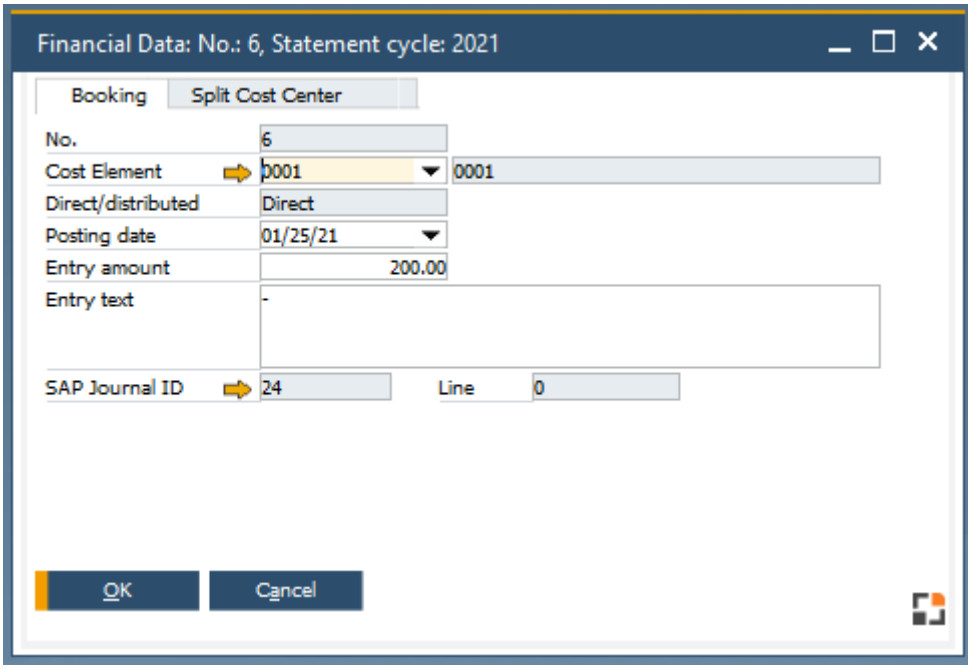
Button/Function	Description
Open	Open selected entry.
Search	Search list by Cost element number/name or Memo.
Add	Add a new entry by providing a new ID.
Duplicate	Duplicate selected entry by providing a new ID.
Remove	Delete selected entry.
Batch-Delete	If already imported data are to be imported again, they needs to be deleted, otherwise there would be two data sets. Use this function to delete a complete range of data.
Last error: SBO financial import	This button displays the last error in SBO financial import.

4.2.7.3.1 Financial Data - Edit

In this window you can record data for financial accounting manually.

PATH: Financials > Business Performance > Monthly Values > Financial Data > **Open** an entry.

© 2026 Boyum IT Solutions A/S



Window bab_fibu_edit.psr

Booking tab

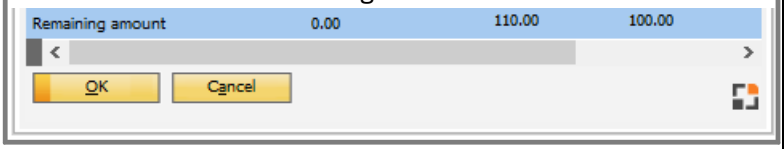
Field	Description
No.	Counter – automatically assigned.
Cost element	Cost element ID to which these costs are assigned to. The cost element must be stored as master data set in Cost elements. Importing data from SAP Business One the assignment to cost element is done in **Assignment account number > cost element** of master data administration.
Cost unit	Cost unit to which these costs are assigned.
Direct/Distributed	Selection: **direct:** the function Distribution of cost centers is activated automatically. If the cost element is **distributed** using a key, no direct distribution on cost centers is possible.
Posting date	Day/Month/Year Booking date from financial accounting.
Entry amount	Booked amount.
Entry text	Additional text and remarks to this booking.
SAP Journal ID	SAP Journal ID. The orange arrow opens the linked SAP Journal.

Buttons/Functions

© 2026 Boyum IT Solutions A/S

Button/Function	Description
Add	Add a new entry by providing a new ID.
Duplicate	Duplicate selected entry by providing a new ID.
Remove	Delete selected entry.

Split Cost Center tab

Field	Description
Cost center	Master code of receiving cost center. Use the "New" button to add more lines.
Description	Description from the master data.
Amount	Amount posted in €.
Rate in %	Percentage share of the total amount of cost for this cost center. Either enter the absolute or the percentage amount. An amount left blank will automatically be computed by Beas Business performance. The Remaining amount is indicated in the bottom of the screen in light blue color: 

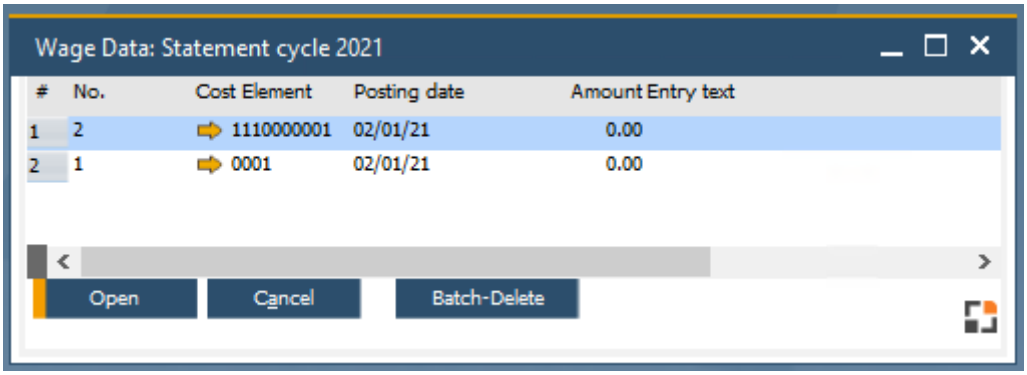
Administration of direct posting of costs when they are not distributed. It is possible to post a cost element to several cost centers.

4.2.7.4 Wage Data

The procedure is identical to the recording of financial accounting data.

PATH: Financials > Business Performance > Monthly Values > Wage Data

© 2026 Boyum IT Solutions A/S



Window bab_lohn_browse.psr

Field	Description
No.	Counter, automatically assigned.
Cost element	Cost element ID, to which these costs are assigned. The cost element must be stored as master data set in Cost elements. Importing data from SAP Business One the assignment to cost element is done in **Assignment account number > cost element** of master data administration.
Entry date	Day/Month/Year Booking date from financial accounting.
Amount	Booked amount.
Booking text	Additional text and remarks to this booking.

Buttons/Functions

Button/Function	Description
Add	Add a new entry by providing a new ID.
Duplicate	Duplicate selected entry by providing a new ID.
Remove	Delete selected entry.
Batch-Delete	If already imported data are to be imported again, they need to be deleted, otherwise there would be two data sets. Use this function to delete a complete range of data.

Postings tab

Field	Description
No.	Counter, automatically assigned.

© 2026 Boyum IT Solutions A/S

Cost element	Cost element ID, to which these costs are assigned. The cost element must be stored as master data set in Cost elements. Importing data from SAP Business One the assignment to cost element is done in **Assignment account number > cost element** of master data administration.
Cost unit	Cost unit to which these costs are assigned.
Direct/Distributed	Selection: **direct:** the function Distribution of cost centers is activated automatically. If the cost element is distributed using a key, no direct distribution on cost centers is possible.
Posting date	Day/Month/Year Booking date from financial accounting.
Entry Amount	Booked amount.
Entry text	Additional text and remarks to this booking.

Split cost Center

Field	Description
Cost center	Master code of receiving cost center.
Description	Description from the master data.
Amount	Amount posted in €.
Percent %	Percentage share of the total amount of cost for this cost center. Either enter the absolute or the percentage amount. An amount left blank will automatically be computed by Beas Business performance.

In addition to the amount, enter the actual service data in base units in the function “Distribution cost centers” to further calculate the hourly rate of the cost center.

4.2.7.5 Production activities

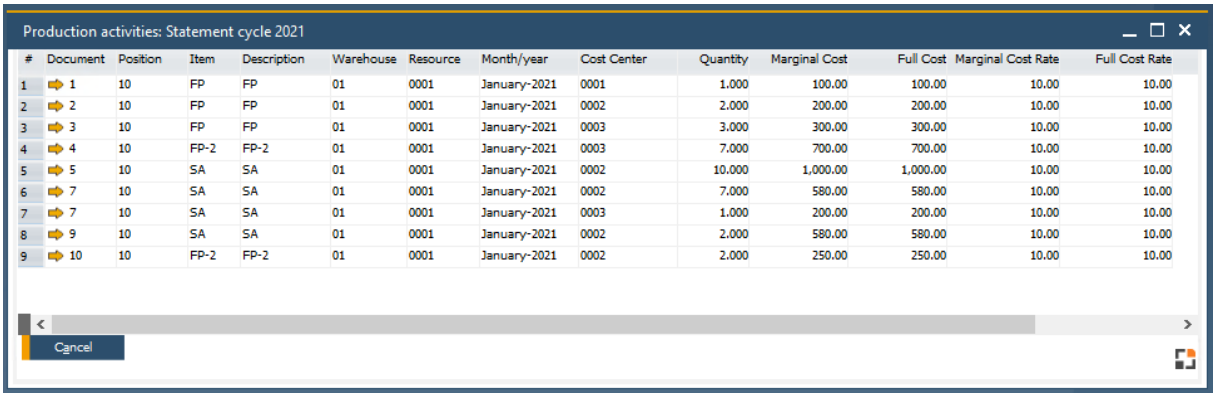
This window lists all production activities in the selected Statement cycle.

Window settings are supported.

See Production activities workflow

PATH: Financials > Business Performance > Monthly Values > Production Activities

© 2026 Boyum IT Solutions A/S



#	Document	Position	Item	Description	Warehouse	Resource	Month/year	Cost Center	Quantity	Marginal Cost	Full Cost	Marginal Cost Rate	Full Cost Rate
1	1	10	FP	FP	01	0001	January-2021	0001	1.000	100.00	100.00	10.00	10.00
2	2	10	FP	FP	01	0001	January-2021	0002	2.000	200.00	200.00	10.00	10.00
3	3	10	FP	FP	01	0001	January-2021	0003	3.000	300.00	300.00	10.00	10.00
4	4	10	FP-2	FP-2	01	0001	January-2021	0003	7.000	700.00	700.00	10.00	10.00
5	5	10	SA	SA	01	0001	January-2021	0002	10.000	1,000.00	1,000.00	10.00	10.00
6	7	10	SA	SA	01	0001	January-2021	0002	7.000	580.00	580.00	10.00	10.00
7	7	10	SA	SA	01	0001	January-2021	0003	1.000	200.00	200.00	10.00	10.00
8	9	10	SA	SA	01	0001	January-2021	0002	2.000	580.00	580.00	10.00	10.00
9	10	10	FP-2	FP-2	01	0001	January-2021	0002	2.000	250.00	250.00	10.00	10.00

Window bab_fert_leist_import.psr

Field descriptions

Field	Description
Document	Work order document number.
Position	Work order position number.
Item	Item number.
Description	Description
Warehouse	Warehouse number
Resource	Resource number
Month/year	Statement cycle month/year
Cost Center	assigned cost center
Quantity	receipt quantity for production (docu number)
Marginal Cost	Marginal cost of the selected production activity (work order)
Full Cost	Full cost of the selected production activity (work order) ***See*** Marginal and full costs concept.
Marginal Cost Rate	Marginal cost rate of the selected production activity (work order)
Full Cost Rate	Full cost rate of the selected production activity (work order)
Branch	Branch selection (if the system works with multiple branches).

4.2.8 Cost Calculate

Batch program to perform Business performance for the current client. If the Business performance run was conducted previously, then old results will be overwritten.

This window serves as a log for the calculation process. When clicking **Start**, the cost calculation starts for the current Statement cycle.

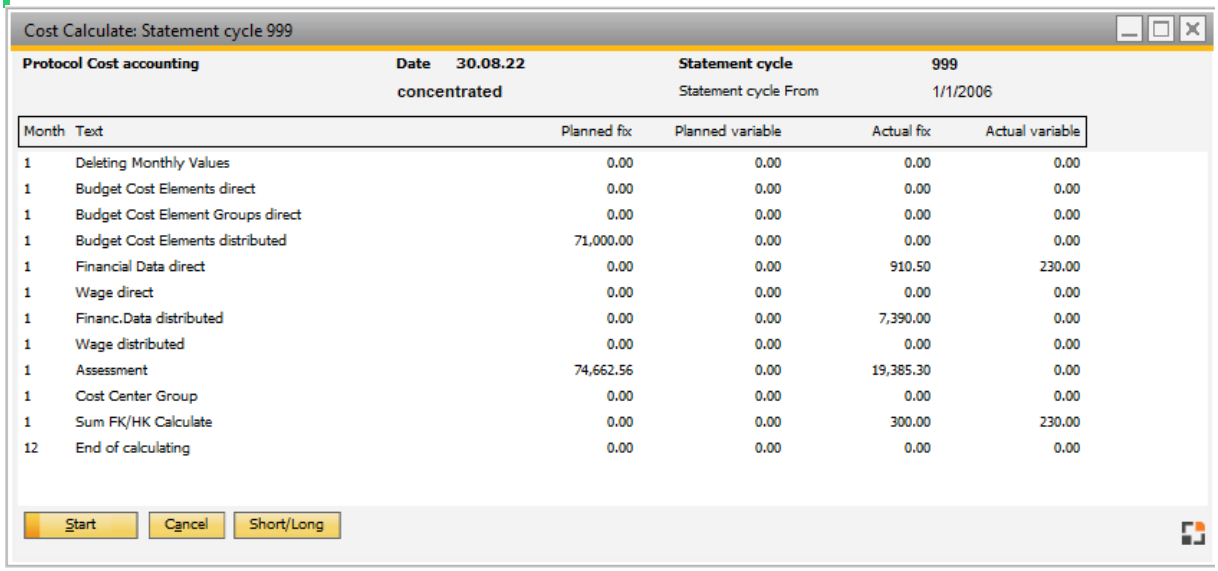
© 2026 Boyum IT Solutions A/S

See:

Absorption Costing - Setup

Cost Calculate workflow

PATH: Financials > Business Performance > Cost Calculate.



Month	Text	Planned fix	Planned variable	Actual fix	Actual variable
1	Deleting Monthly Values	0.00	0.00	0.00	0.00
1	Budget Cost Elements direct	0.00	0.00	0.00	0.00
1	Budget Cost Element Groups direct	0.00	0.00	0.00	0.00
1	Budget Cost Elements distributed	71,000.00	0.00	0.00	0.00
1	Financial Data direct	0.00	0.00	910.50	230.00
1	Wage direct	0.00	0.00	0.00	0.00
1	Financ.Data distributed	0.00	0.00	7,390.00	0.00
1	Wage distributed	0.00	0.00	0.00	0.00
1	Assessment	74,662.56	0.00	19,385.30	0.00
1	Cost Center Group	0.00	0.00	0.00	0.00
1	Sum FK/HK Calculate	0.00	0.00	300.00	230.00
12	End of calculating	0.00	0.00	0.00	0.00

WIndow bab_berechnen.psr

All other users should exit the program during calculation to rule out changes to the data.

"Fix" and "Variable" values depend on whether you set your Cost Elements as related to fixed or variable costs for the Cost Centers:

Field Descriptions

Field	Description
Month	The month subject to calculation.
Text	Free text.
Planned Fix	Planned fixed cost
Planned variable	Planned variable
Actual fix	Actual fixed cost
Actual variable	Actual variable

Functions

© 2026 Boyum IT Solutions A/S

Function	Description
Start	Integrated option to check the assignment of Distribution Keys. The button checks: - if inserted distribution key exists, - if there are incorrect cost center assignments in the distribution key, - If distribution keys were also defined for 'Production hours per Cost Center', - the usage of either only distribution keys or pre-distribution for a cost center.
Short/Long	Controls generation of the protocol in short (concentrated) or long (detailed) form.

4.2.8.1 Cost calculation procedure

The table below details the steps of cost calculation procedure.

Step 1	Deletion of old monthly values.
Step 2	Evaluation of distribution rates. This rate corresponds to the share of the cost center distributed according to the key master data record on 'Total amount distributed' and/or according to the total amount of the key to be allocated.
Step 3	Booking of financial accounting, wages and payroll accounting data records from the “Monthly values” subroutine. The amounts are allocated to a cost element. The master data record "Cost element" contains the data that determine if the costs are to be distributed via a key or posted directly. **Distribution:** All amounts are first totaled for each cost element. In the next step the distribution is completed.
Step 4	Distribution of the cost elements to the cost centers Beas Business performance reads the distribution percentage rates from the 'Distribution rates' subroutine. Then the amount to be distributed is

© 2026 Boyum IT Solutions A/S

Step 1	Deletion of old monthly values.
	calculated and booked to the cost centers which are defined under “Cost elements -> Cost centers”.
Step 5	Calculation of the cost rate before distribution.
Step 6	Pre-distribution and distribution of the cost centers. All processes are taken from the subroutine "(Pre-) distribution cost centers-> Cost centers". Beas Business performance reads the (pre-) distribution rates from the “Distribution key” subroutine, values the amount to be allocated and reports this amount
Step 7	Calculation of the total cost rates. Previously, in the subroutine “Cost centers” you specified whether a surcharge rate and/or cost rate is to be calculated for the given cost center.
Step 8	Determining the variation of the calculation of the work and machine hourly rate Excess or shortage of cost = volume dependent variation. **Calculation:** Sum of all machines belonging to this cost center (work and machine hourly rates from the subroutine “Calculation of machine hourly rates” weighted with the actual hours) - Actual total costs of the cost center according to the cost center sheet in each case to full and marginal costs.
Step 9	Report of the cost center and cost center groups by summing up the respective values of the positions.
Step 10	Output error log.

4.2.9 Results

Overview of Reports/Lists:

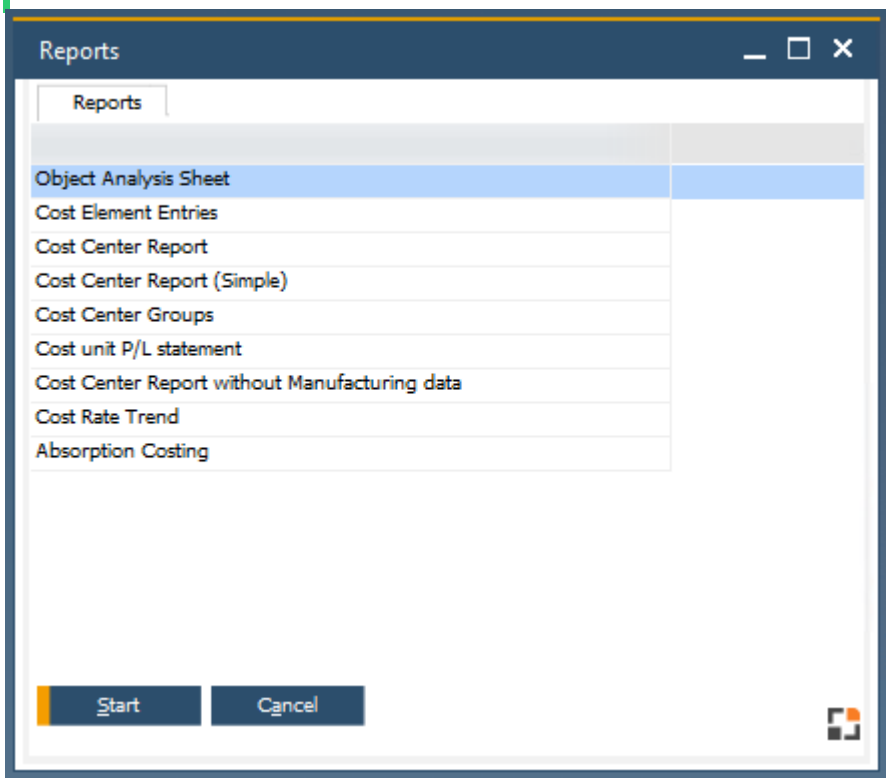
- Calculate Business performance
- Business performance procedure
- Business performance lists
- Structure display
- Execute change of year

© 2026 Boyum IT Solutions A/S

4.2.9.1 Reports (Analyses)

The following Reports are available for Business Performance:

PATH: Financials > Business Performance > Results > Reports.



Window report_makro_start.psr

Object Analysis Sheet

After selecting the period and cost center area, the Business performance is created and displayed in the print preview.

(***See*** Object Analysis Sheet)

Cost Element Entries

All postings that issue a cost element in the selected master number range and period. Costs are differentiated by fixed and variable, target and actual.

(***See*** Cost Element Entries)

Cost Center Report

All postings that receive a cost element in the selected master number range and period. Costs are differentiated by fixed and variable, target and actual.

© 2026 Boyum IT Solutions A/S

(***See*** Cost Center Report)

Cost Center Report (simple)

Simplified form of cost center report

(***See*** Cost Center Report (Simple))

Cost Center Groups

All bookings containing cost center groups within the selected period and number range. Costs are differentiated by fixed and variable, target and actual.

(***See*** Cost Center Groups)

Cost unit P/L statement

Display results, determined from definition of the settlement structure for P/L statement

(***See*** Cost unit P/L statement)

Absorption Cost

(***See*** Absorption Cost)

4.2.9.1.1 Cost unit P/L statement

Display results, determined from definition of the settlement structure for P/L statement

Field	Meaning
Schema	Selected schema; data is displayed in lower area.
Period from	Beginning of related period.
Period to	End of related period.
Description	Description of data row.
various columns	Additional columns defined in settlement structure for P/L statement. This may be budgets, current values or sums.

4.2.9.1.2 Object Analysis Sheet

The Cost Analysis Sheet is a printable report.

The following parameters must be entered:

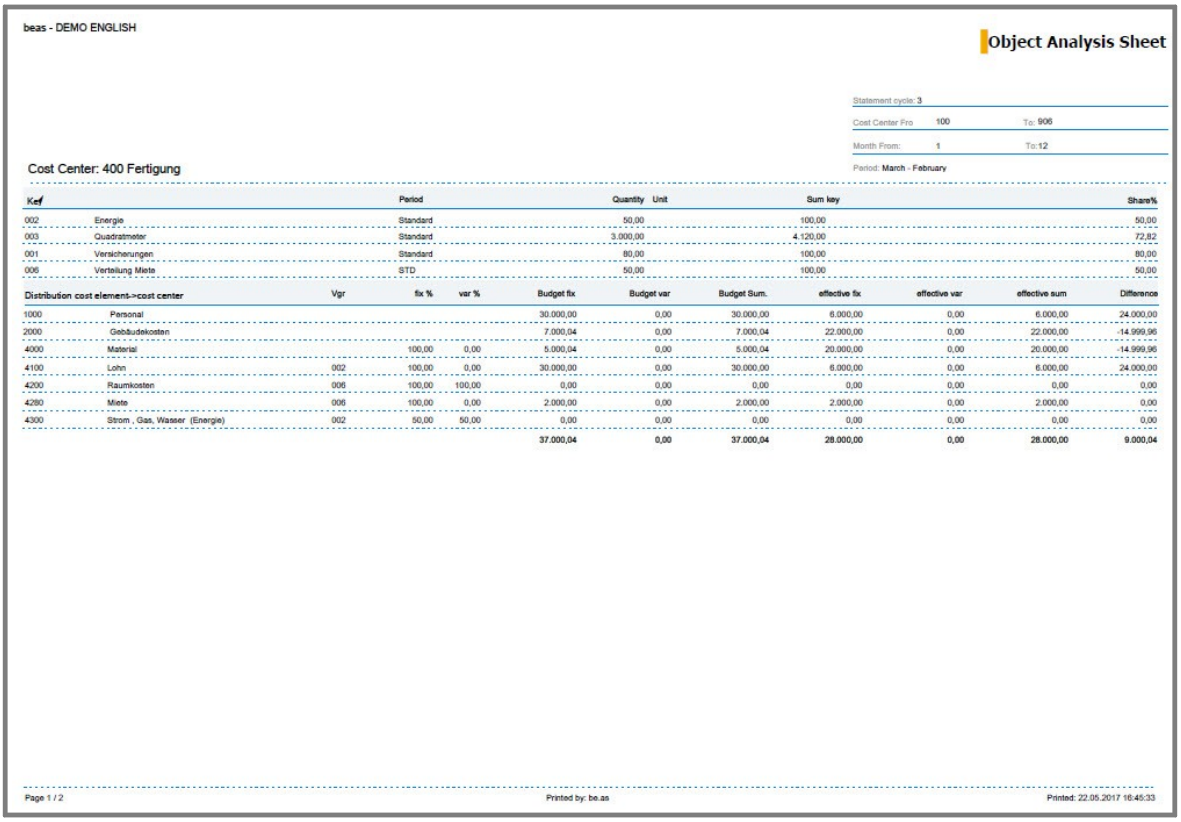
- Cost Center from
- Cost Center to
- Month from

© 2026 Boyum IT Solutions A/S

- Month to

Start- and End-Month must be in logical order of the defined statement cycle.

- Example Report



beas - DEMO ENGLISH

Object Analysis Sheet

Statement cycle: 3
Cost Center Fro 100 To: 906
Month From: 1 To:12
Period: March - February

Cost Center: 400 Fertigung

Key		Period	Quantity	Unit	Sum key	Share%
002	Energie	Standard	50,00		100,00	50,00
003	Quadratmeter	Standard	3.000,00		4.120,00	72,82
001	Versicherungen	Standard	80,00		100,00	80,00
006	Verteilung Miete	STD	50,00		100,00	50,00

Distribution cost element->cost center		Vgr	fix %	var %	Budget fix	Budget var	Budget Sum.	effective fix	effective var	effective sum	Difference
1000	Personal				30.000,00	0,00	30.000,00	6.000,00	0,00	6.000,00	24.000,00
2000	Gebäudekosten				7.000,04	0,00	7.000,04	22.000,00	0,00	22.000,00	-14.999,96
4000	Material		100,00	0,00	5.000,04	0,00	5.000,04	20.000,00	0,00	20.000,00	-14.999,96
4100	Lohn	002	100,00	0,00	30.000,00	0,00	30.000,00	6.000,00	0,00	6.000,00	24.000,00
4200	Raumkosten	006	100,00	100,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
4280	Miete	006	100,00	0,00	2.000,00	0,00	2.000,00	2.000,00	0,00	2.000,00	0,00
4300	Strom , Gas, Wasser (Energie)	002	50,00	50,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
					37.000,04	0,00	37.000,04	28.000,00	0,00	28.000,00	9.000,04

Page 1 / 2 Printed by: be.as Printed: 22.05.2017 16:45:33

4.2.9.1.3 Cost Element Entries

The Cost Element Entries Report is printable.

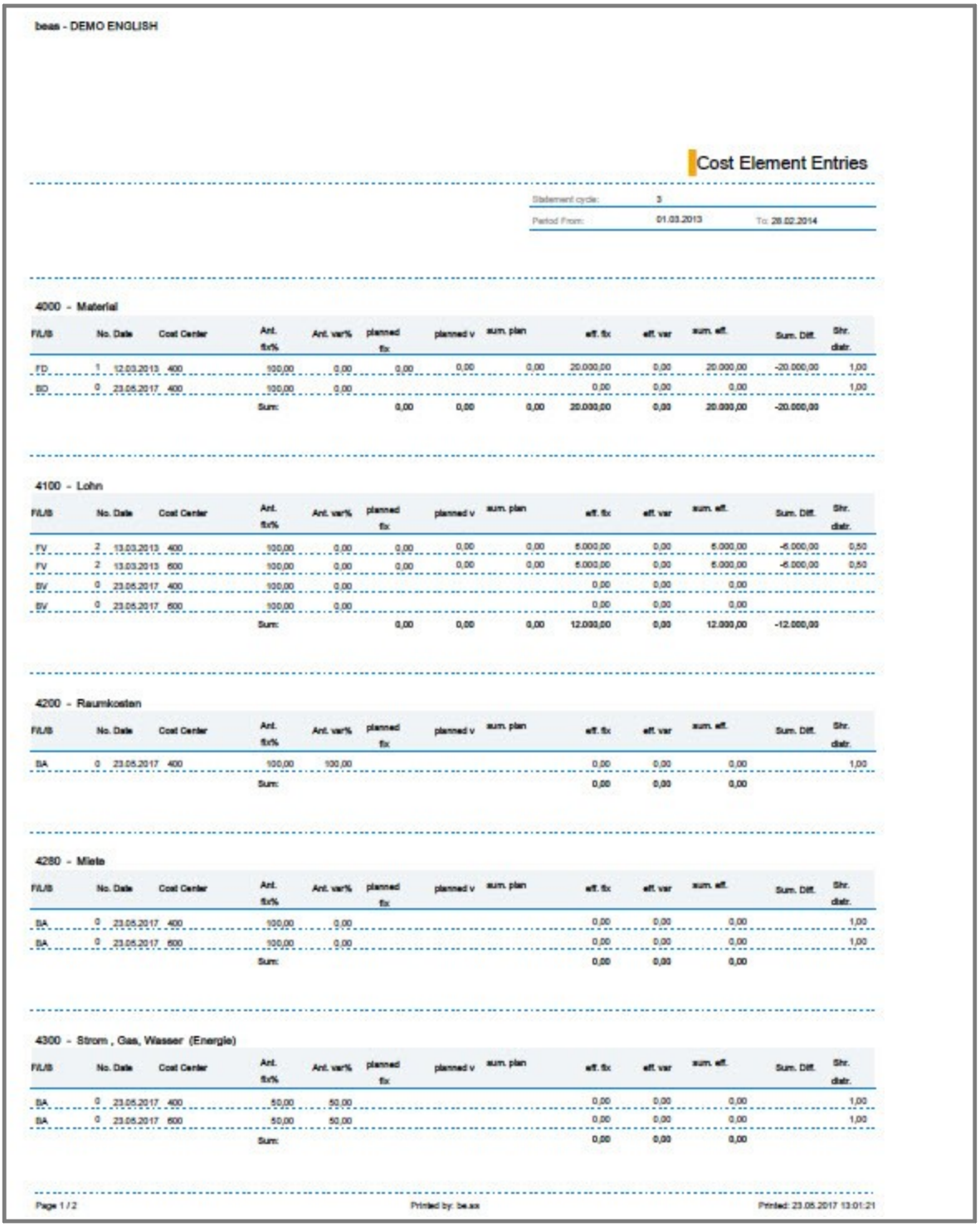
The following parameters must be entered:

- Cost Element from
- Cost Element to
- Month from
- Month to

Start- and End-Month must be in logical order of the defined statement cycle.

- Example Report

© 2026 Boyum IT Solutions A/S



beas - DEMO ENGLISH

Cost Element Entries

Statement cycle: 3

Period From: 01.03.2013 To: 28.02.2014

4000 - Material

FI/B	No.	Date	Cost Center	Ant. fix%	Ant. var%	planned fix	planned v	sum. plan	eff. fix	eff. var	sum. eff.	Sum. Diff.	Shr. distr.
FD	1	12.03.2013	400	100,00	0,00	0,00	0,00	0,00	20.000,00	0,00	20.000,00	-20.000,00	1,00
BD	0	23.05.2017	400	100,00	0,00				0,00	0,00	0,00		1,00
			Sum:			0,00	0,00	0,00	20.000,00	0,00	20.000,00	-20.000,00	

4100 - Lohn

FI/B	No.	Date	Cost Center	Ant. fix%	Ant. var%	planned fix	planned v	sum. plan	eff. fix	eff. var	sum. eff.	Sum. Diff.	Shr. distr.
FV	2	13.03.2013	400	100,00	0,00	0,00	0,00	0,00	6.000,00	0,00	6.000,00	-6.000,00	0,50
FV	2	13.03.2013	600	100,00	0,00	0,00	0,00	0,00	6.000,00	0,00	6.000,00	-6.000,00	0,50
BV	0	23.05.2017	400	100,00	0,00				0,00	0,00	0,00		
BV	0	23.05.2017	600	100,00	0,00				0,00	0,00	0,00		
			Sum:			0,00	0,00	0,00	12.000,00	0,00	12.000,00	-12.000,00	

4200 - Raumkosten

FI/B	No.	Date	Cost Center	Ant. fix%	Ant. var%	planned fix	planned v	sum. plan	eff. fix	eff. var	sum. eff.	Sum. Diff.	Shr. distr.
BA	0	23.05.2017	400	100,00	100,00				0,00	0,00	0,00		1,00
			Sum:						0,00	0,00	0,00		

4280 - Miete

FI/B	No.	Date	Cost Center	Ant. fix%	Ant. var%	planned fix	planned v	sum. plan	eff. fix	eff. var	sum. eff.	Sum. Diff.	Shr. distr.
BA	0	23.05.2017	400	100,00	0,00				0,00	0,00	0,00		1,00
BA	0	23.05.2017	600	100,00	0,00				0,00	0,00	0,00		1,00
			Sum:						0,00	0,00	0,00		

4300 - Strom , Gas, Wasser (Energie)

FI/B	No.	Date	Cost Center	Ant. fix%	Ant. var%	planned fix	planned v	sum. plan	eff. fix	eff. var	sum. eff.	Sum. Diff.	Shr. distr.
BA	0	23.05.2017	400	50,00	50,00				0,00	0,00	0,00		1,00
BA	0	23.05.2017	600	50,00	50,00				0,00	0,00	0,00		1,00
			Sum:						0,00	0,00	0,00		

Page 1 / 2 Printed by: be.as Printed: 23.05.2017 13:01:21

4.2.9.1.4 Cost Center Report

The Cost Element Entries Report is printable.

© 2026 Boyum IT Solutions A/S

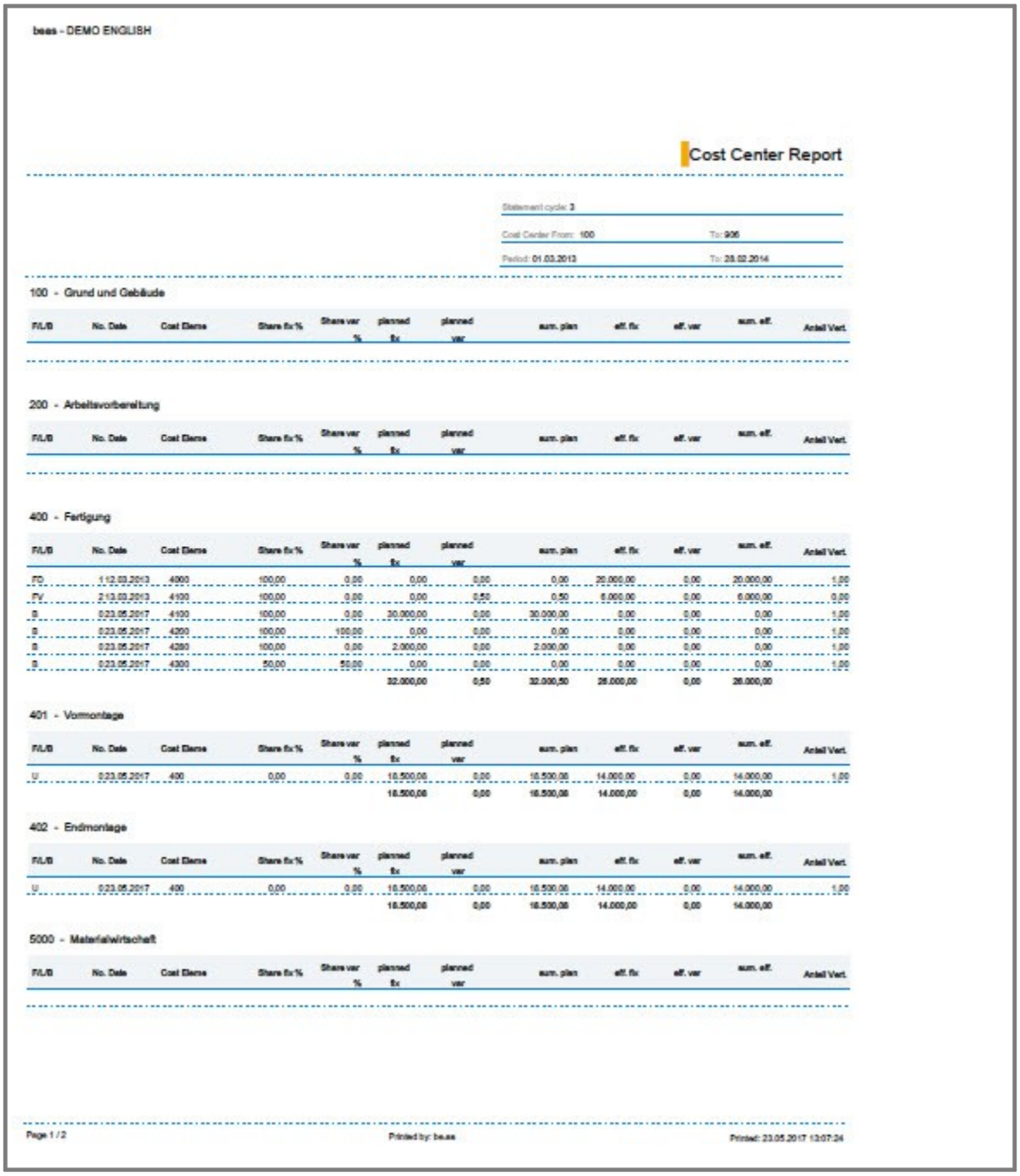
The following parameters must be entered:

- Cost Center from
- Cost Center to
- Month from
- Month to

Start- and End-Month must be in logical order of the defined statement cycle.

Example Report

© 2026 Boyum IT Solutions A/S



bees - DEMO ENGLISH

Cost Center Report

Statement cycle: 3

Cost Center From: 100 To: 906

Period: 01.03.2013 To: 28.02.2014

100 - Grund und Gebäude

F/L/B	No. Date	Cost Elems	Share fix %	Share var %	planned fix	planned var	sum. plan	eff. fix	eff. var	sum. eff.	Anteil Vert.

200 - Arbeitsvorbereitung

F/L/B	No. Date	Cost Elems	Share fix %	Share var %	planned fix	planned var	sum. plan	eff. fix	eff. var	sum. eff.	Anteil Vert.

400 - Fertigung

F/L/B	No. Date	Cost Elems	Share fix %	Share var %	planned fix	planned var	sum. plan	eff. fix	eff. var	sum. eff.	Anteil Vert.
FD	112.03.2013	4000	100,00	0,00	0,00	0,00	0,00	20.000,00	0,00	20.000,00	1,00
FV	213.03.2013	4100	100,00	0,00	0,00	0,50	0,50	6.000,00	0,00	6.000,00	0,00
B	023.05.2017	4100	100,00	0,00	30.000,00	0,00	30.000,00	0,00	0,00	0,00	1,00
B	023.05.2017	4200	100,00	100,00	0,00	0,00	0,00	0,00	0,00	0,00	1,00
B	023.05.2017	4280	100,00	0,00	2.000,00	0,00	2.000,00	0,00	0,00	0,00	1,00
B	023.05.2017	4300	50,00	50,00	0,00	0,00	0,00	0,00	0,00	0,00	1,00
					32.000,00	0,50	32.000,50	26.000,00	0,00	26.000,00	

401 - Vormontage

F/L/B	No. Date	Cost Elems	Share fix %	Share var %	planned fix	planned var	sum. plan	eff. fix	eff. var	sum. eff.	Anteil Vert.
U	023.05.2017	400	0,00	0,00	16.500,00	0,00	16.500,00	14.000,00	0,00	14.000,00	1,00
					16.500,00	0,00	16.500,00	14.000,00	0,00	14.000,00	

402 - Endmontage

F/L/B	No. Date	Cost Elems	Share fix %	Share var %	planned fix	planned var	sum. plan	eff. fix	eff. var	sum. eff.	Anteil Vert.
U	023.05.2017	400	0,00	0,00	16.500,00	0,00	16.500,00	14.000,00	0,00	14.000,00	1,00
					16.500,00	0,00	16.500,00	14.000,00	0,00	14.000,00	

5000 - Materialwirtschaft

F/L/B	No. Date	Cost Elems	Share fix %	Share var %	planned fix	planned var	sum. plan	eff. fix	eff. var	sum. eff.	Anteil Vert.

Page 1 / 2 Printed by: bees Printed: 23.05.2017 13:07:24

4.2.9.1.5 Cost Center Report (Simple)

4.2.9.1.6 Cost Center Groups

4.2.9.1.7 Cost Rate Trend

The following parameters must be entered:

© 2026 Boyum IT Solutions A/S

- Cost Center from
- Cost Center to
- Month from
- Month to

Start- and End-Month must be in logical order of the defined statement cycle.

4.2.9.1.8 Absorption Cost

The data used for the absorption costing for the selected month.

Note:

QUICK GUIDE FOR THE 2020.12 RELEASE OF ABSORPTION COSTING MODULE IN BEAS

Business performance - Introduction to Absorption costing

Settings: Absorption Costing - Setup

Tabs

Absorption Costing

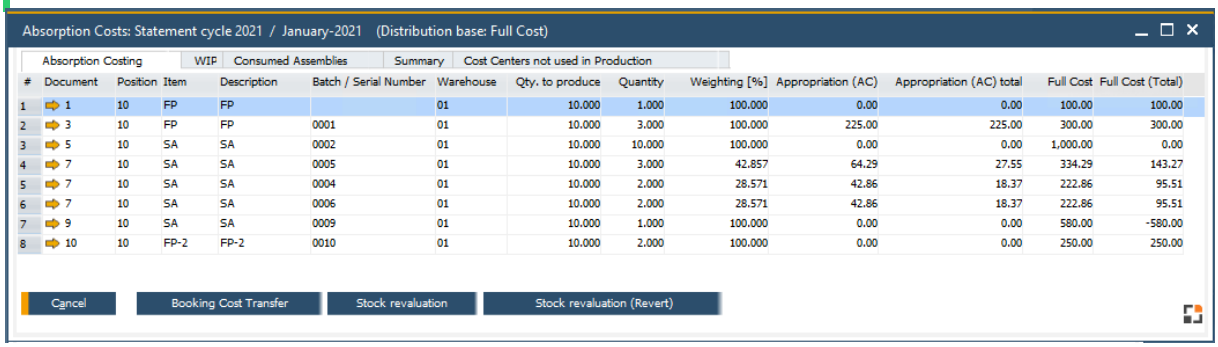
WIP

Consumed Assemblies

Summary

Cost Centers not used in Production

PATH: Financials > Business Performance > Results > Reports > "Absorption Costing".



#	Document	Position	Item	Description	Batch / Serial Number	Warehouse	Qty. to produce	Quantity	Weighting [%]	Appropriation (AC)	Appropriation (AC) total	Full Cost	Full Cost (Total)
1	1	10	FP	FP		01	10.000	1.000	100.000	0.00	0.00	100.00	100.00
2	3	10	FP	FP	0001	01	10.000	3.000	100.000	225.00	225.00	300.00	300.00
3	5	10	SA	SA	0002	01	10.000	10.000	100.000	0.00	0.00	1,000.00	0.00
4	7	10	SA	SA	0005	01	10.000	3.000	42.857	64.29	27.55	334.29	143.27
5	7	10	SA	SA	0004	01	10.000	2.000	28.571	42.86	18.37	222.86	95.51
6	7	10	SA	SA	0006	01	10.000	2.000	28.571	42.86	18.37	222.86	95.51
7	9	10	SA	SA	0009	01	10.000	1.000	100.000	0.00	0.00	580.00	-580.00
8	10	10	FP-2	FP-2	0010	01	10.000	2.000	100.000	0.00	0.00	250.00	250.00

Window bab_absorpt_wip2.psr

Process:

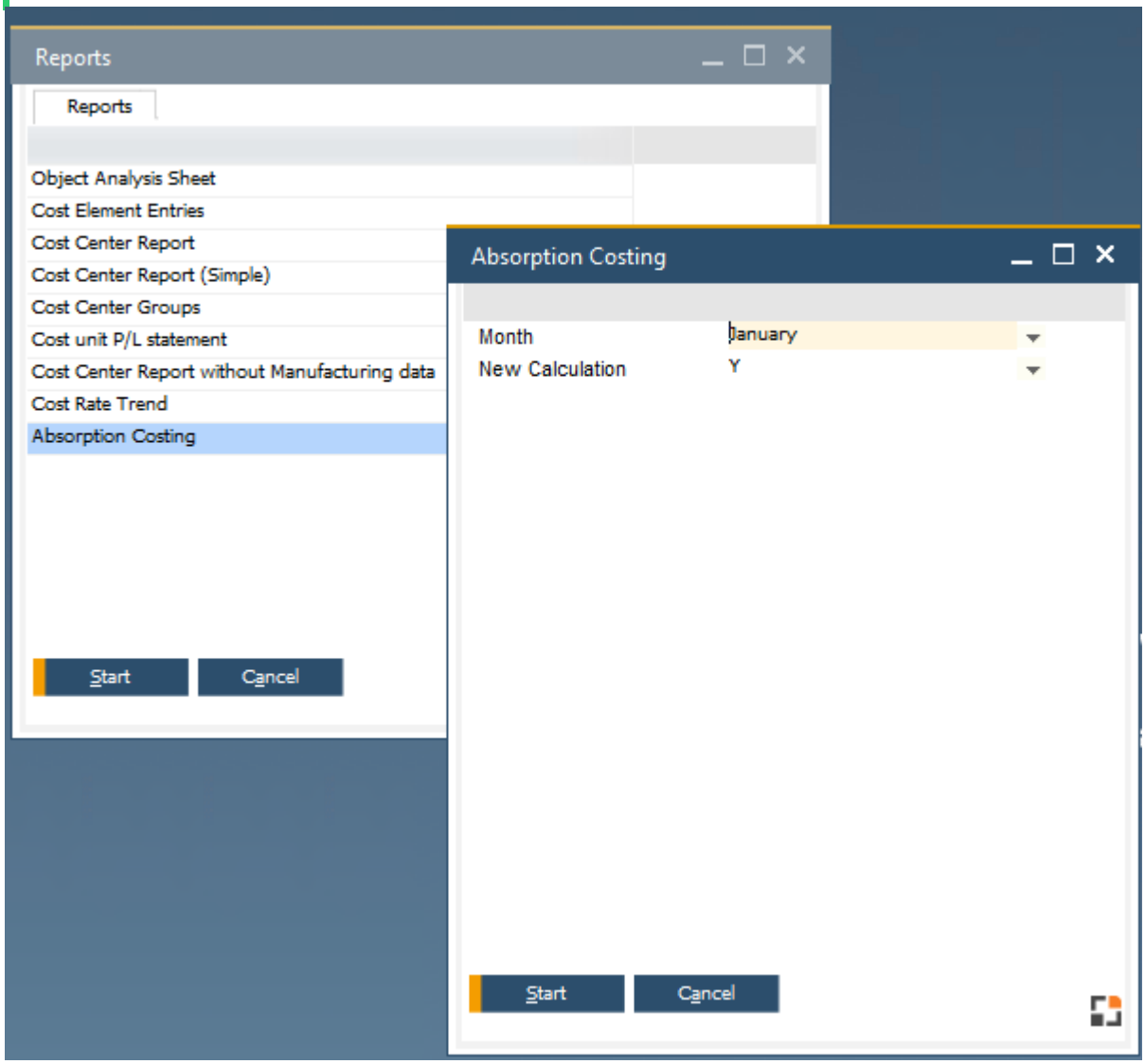
1. Click the **Start** button to select a month for Absorption costing.

© 2026 Boyum IT Solutions A/S

2. In the selection window choose a month, select "Y" to launch a new calculation, and click **Start** .

3. The **Absorption Costs: Statement Cycle XXX / Month-2021 window** opens.

PATH: Financials > Business Performance > Results > Reports > "Absorption Costing".



Window system_ auswahl.psr

4.2.9.1.8.1 Absorption Costing Report - Concept

This part of the guide is focused on helping you to understand the Absorption Costing report, where you will find all data related to absorption costing and the functions which will later perform its execution. Before you can get into the report, however, there are several rules you must follow to prevent some common mistakes, as they can hinder your progress if Beas identifies them in your setup.

© 2026 Boyum IT Solutions A/S

Absorption Costing setup
Absorption Costing workflows

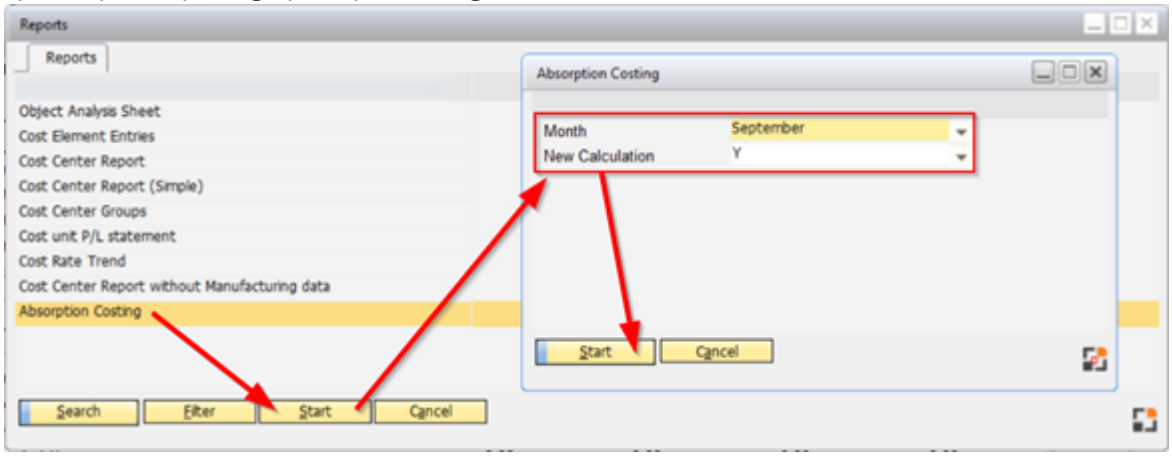
IMPORTANT SETUP RULES:

- Cost Centers cannot have both Pre-Distribution and Distribution Keys at the same time.
- Cost Centers with either Pre-Distribution or Distribution Keys must have the field "As Cost Unit" set to "No". As a general recommendation when using absorption costing, all Cost Centres must have "As Cost Unit" set to "No".
- Cost Centers cannot have Pre-Distribution or Distribution Keys distributing values back to themselves.

Additionally, there are two extra recommendations for absorption costing. These recommendations will not prevent you from running absorption costing but may trigger additional warning messages.

- Direct Cost Centers receiving values either directly or from Distribution Keys should have production activities linked to them (if not, you might want to link a Distribution Key to them to prevent having non-absorbed values).
- Cost Centers with associated production activities should not be linked to Distribution Keys (as their values will go to the manufactured goods).

1) Run the **Absorption Costing report**. You need to select the month (remember that it is always within the selected Statement Cycle) and, if not done before, leave "New Calculation" as "Y" for Beas to process the distributions between direct Cost Centers and manufactured goods, which happens according to the Distribution Base set in the Statement Cycle. If you have already processed it, you can set "New Calculation" to "N" on the next time you open the report, as it will speed up the opening by not processing new calculations.

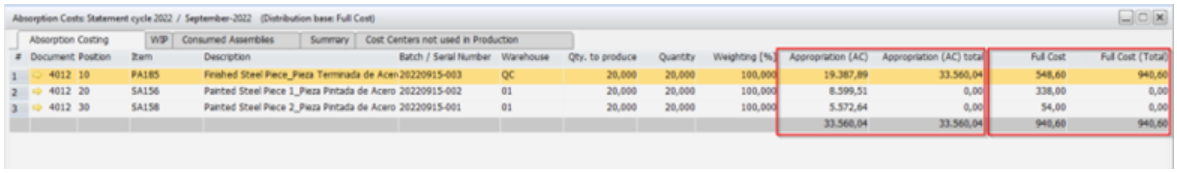


Window report_makro_start.psr

2) **Analyze** the report. The absorption costing report presents you with a list of all manufactured goods within the selected month, as well as the calculated appropriations and costs to revert for

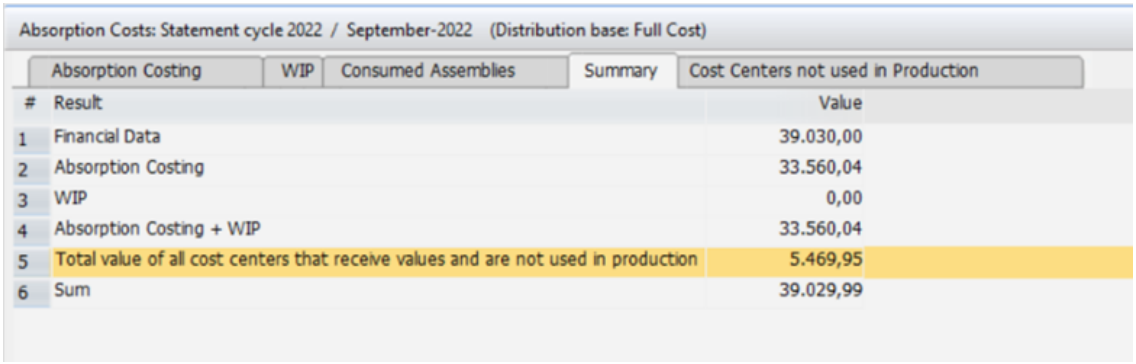
© 2026 Boyum IT Solutions A/S

each one of them. Remember that appropriations come from financial data distributions, and costs to revert from costs booked to the goods according to the resource cost rates. The difference between non-total and total columns is that non-totals represent values before discounts and additions due to "Consumed Assemblies" (explained in 6) and totals represent values after applying these discounts and additions.



Window bab_absorpt_wip2.psr

3) Check the **Summary** tab. Through the summary, you can understand how your financial values are distributed to your manufactured products in three main groups:
   - **Absorption Costing**: values that Business Performance can absorb into the products during the absorption costing execution for the selected month, as the goods were processed and received on stock.
   - **WIP**: values kept open for future months because the goods were not received on stock (production process incomplete).
   - **Absorption Costing + WIP**: if everything is correct, this value will be exactly the same as the financial data, since all manufacturing costs must be appropriated to production. One common source of differences is because direct Cost Centers receiving costs were not used in production, so they have no production orders to distribute their contained values. If this happens, you will see a value different from 0 under "Total value of all cost centers that receive values and are not used in production.

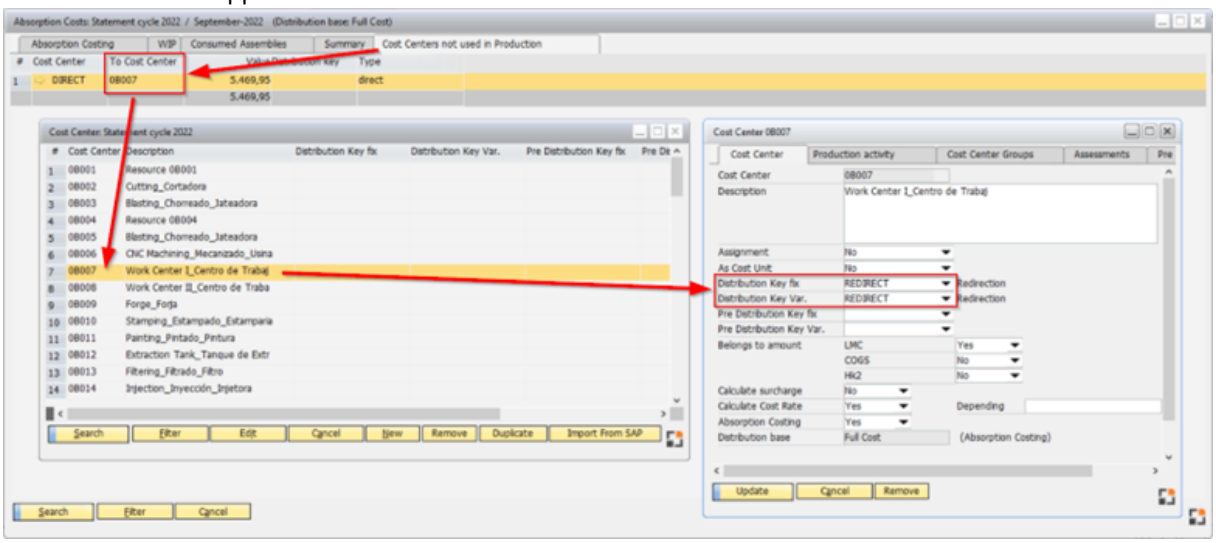


Window bab_absorpt_wip2.psr

4) Whenever you have a value different from 0 under "Total value of all cost centers that receive values and are not used in production", check the tab "Cost Centers not used in Production" to find out who they are. Then, assign them Distribution Keys (not Pre-Distribution, or values received from indirect Cost Centers might remain on them) to redirect their values to the other direct Cost Centers. Remember to erase this Distribution Key from the Cost Centers' master data after you complete the absorption costing run.

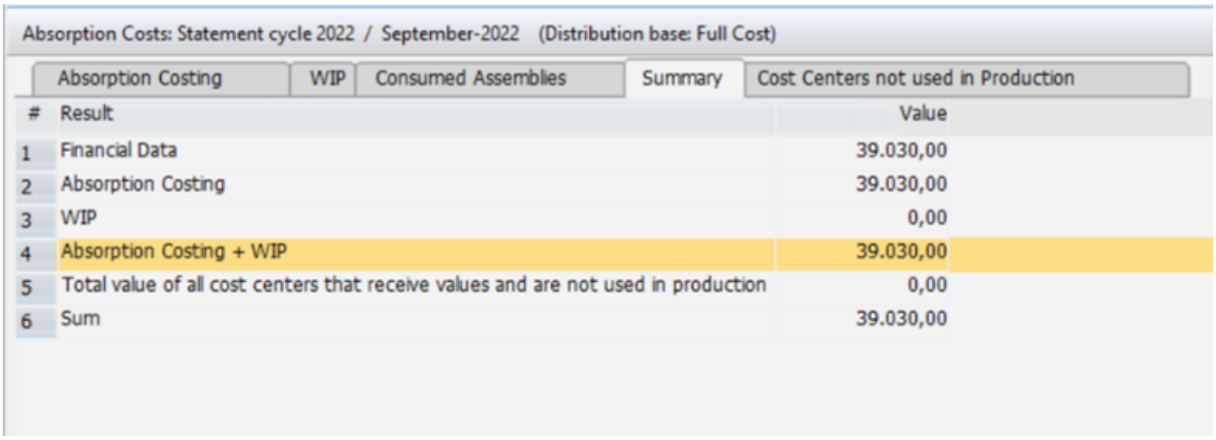
© 2026 Boyum IT Solutions A/S

Important note: After setting the Distribution Keys, you must execute the Cost Calculate process again and reopen the Absorption Costing report with "New Calculation" set to "Y". If not, no values distribution will happen.



Window bab_absorpt_wip2.psr

If you followed all these steps correctly, the Summary report should now show the full financial value under "Absorption Costing + WIP".



Absorption Costs: Statement cycle 2022 / September-2022 (Distribution base: Full Cost)

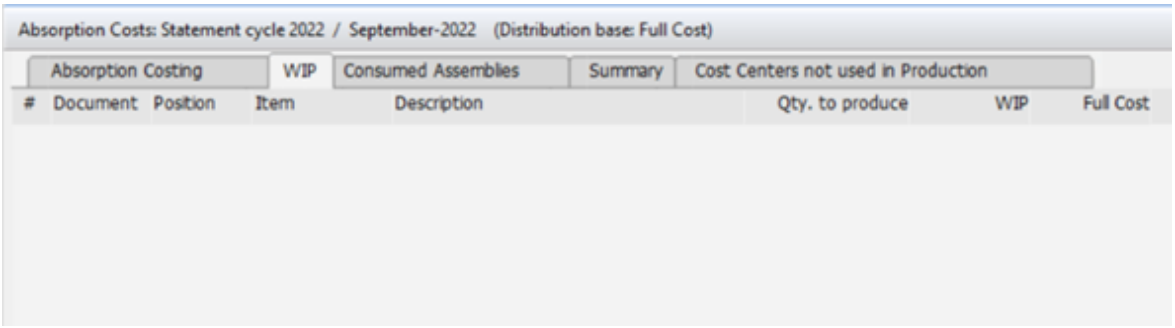
Absorption Costing | WIP | Consumed Assemblies | Summary | Cost Centers not used in Production

#	Result	Value
1	Financial Data	39.030,00
2	Absorption Costing	39.030,00
3	WIP	0,00
4	Absorption Costing + WIP	39.030,00
5	Total value of all cost centers that receive values and are not used in production	0,00
6	Sum	39.030,00

Window bab_absorpt_wip2.psr

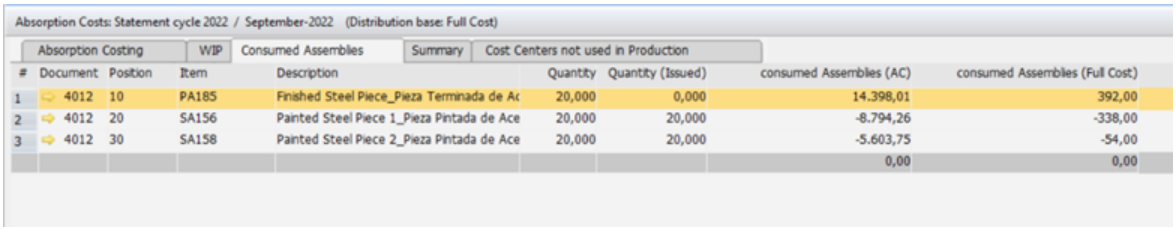
5) The **WIP** tab contains all production orders for products whose manufacturing process could not be completed during the month. These products consumed production resources, thus requiring a share of the total manufacturing costs, but are not on stock so to be reevaluated. Beas, in this case, will keep them open until the next periods when they are finally received on stock, a situation in which you will see values coming from previous months to increase appropriation amounts. If all your items in production were received on stock until the end of the month (at least through partial receipts for the work done), WIP will be empty.

© 2026 Boyum IT Solutions A/S



Window bab_absorpt_wip2.psr

6) The **Consumed Assemblies** tab details all sub-assemblies that were produced and consumed during the month to be incorporated into other products. This is needed to prevent these assemblies from receiving a direct appropriation, which would send values to COGS due to the items not being on stock anymore. With this behavior, Beas can roll up manufacturing costs throughout assemblies until the last level is received on stock. You will see negative amounts for consumed sub-assemblies and positive amounts for the assemblies who consumed them.



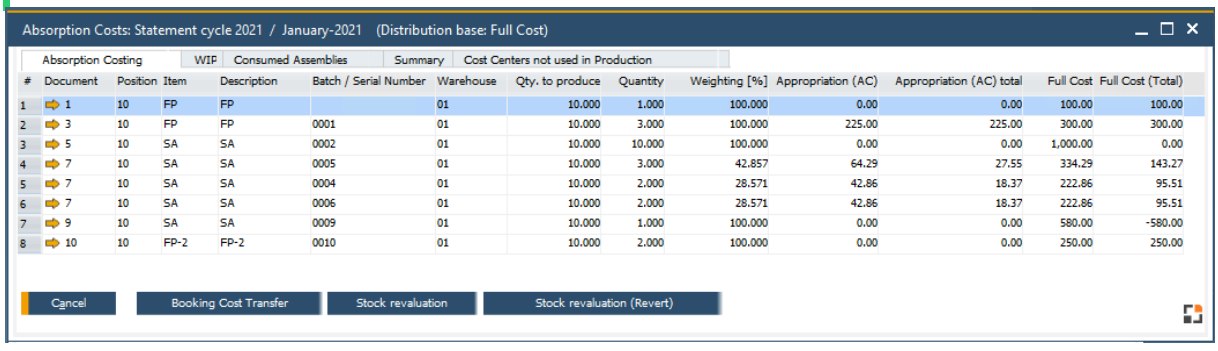
Window bab_absorpt_wip2.psr

4.2.9.1.8.2 Absorption Costing

This tab shows all items / work orders for which the costs will be appropriated in the currently calculated month.

Window settings are supported.

PATH: Financials > Business Performance > Results > Reports > "Absorption Costing" > Absorption costing tab.



Window bab_absorpt_wip2.psr

© 2026 Boyum IT Solutions A/S

Field Descriptions

Column	Description
Document	Work order number.
Position	Work order position.
Item	Item code.
Description	Item description.
Batch/Serial number	Item batch or serial number. If the item is not receipted, the column is blank.
Warehouse	Code of the warehouse, where the item is stored. If any stock transfers are created for the items after their production, the transactions are identified to calculate the final balance in each warehouse.
Qty. to produce	Planned quantity of the work order.
Quantity	Quantity produced or transferred to the warehouse in the selected line.
Weighting(%)	Percentage of the product in each warehouse in relation to the total produced quantity.
Appropriation (AC)	Calculated value appropriated to each work order multiplied by weighting.
Appropriation (AC) total	The total appropriated value for the item: values from the previous month, value kept open for the next month, discounts and additions.
Marginal Cost/Full Cost	Production costs linked to the selected work order in the current month. ***See*** Marginal and full costs concept.
Marginal/Full Cost Total	Production costs linked to the selected work order in the current month + the cost of work orders from the previous months, discounting work orders that were consumed in other productions, and summing up the assemblies that those work orders consumed. ***See*** Marginal and full costs concept.

Buttons

Button	Description
Booking Cost Transfer	Function to book the clearing of the cost accounts and register the values to appropriate in the costs to absorb account. After this is executed for a branch, it cannot be executed again for the same branch. After pressing start, the journal entry is created.
Stock revaluation	Function to absorb the costs into the produced items. After this is executed for a branch, the absorption cannot be performed for the same work orders again.

© 2026 Boyum IT Solutions A/S

Button	Description
	If any of the items are not receipted, the Appropriate (AC) value is displayed as 0 and the value is kept for future months. At the moment of the revaluation, SAP Business One checks the inventory and absorb the values into the item stock account or into the price difference account (that should be defined as COGS). SAP Business One always considers the current inventory to calculate what value should go into stock or into the price difference account, therefore, it's recommended to execute the absorption costing process as soon as the month ends, in order to avoid stock differences between the stock at the end of the month and the stock at the date when the revaluations are performed. Click the Closed Stock Revaluation to review the revaluations already performed.
Stock revaluation (Revert)	Function to revert the standard production costs automatically appropriated into the work orders. After this is executed for a branch, the standard costs reversal cannot be performed for the same work orders again. If any of the items are not receipted, the value to revert is displayed as 0 and the value is kept for future months. At the moment of the revaluation, SAP Business One checks the inventory and reverts the values from the item stock account or from the price difference account (that should be defined as COGS). SAP Business One always considers the current inventory to calculate what value should be reverted from stock or from the price difference account, therefore, it's recommended to execute the absorption costing process as soon as the month ends, in order to avoid stock differences between the stock at the end of the month and the stock at the date when the revaluations are performed. Click the Closed Stock Revaluation to review the revaluations already performed.

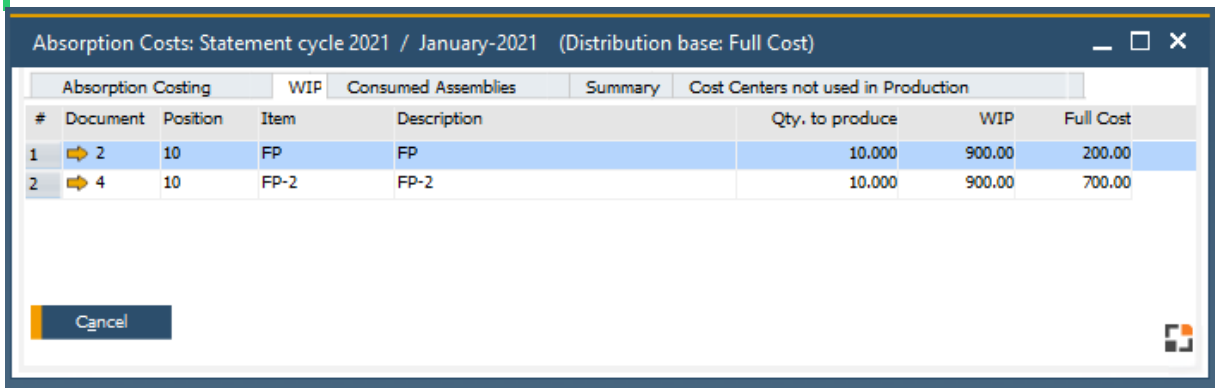
4.2.9.1.8.3 WIP

This tab shows work orders with production data (time receipts) and no stock receipts for the currently calculated month, whose values will be kept open for the calculations in the following months.

Window settings are supported.

© 2026 Boyum IT Solutions A/S

PATH: Financials > Business Performance > Results > Reports > "Absorption Costing" > WIP tab.



Window bab_absorpt_wip2.psr

Field descriptions

Field	Description
Document	Work order number
Position	Work order position number
Item	Item number
Description	Item description
Qty. to produce	Quantity to be produced
WIP	Open absorption cost for the work order in defined currency. ***See*** WIP concept
Full Cost	Full cost ***See*** Marginal and full costs concept.

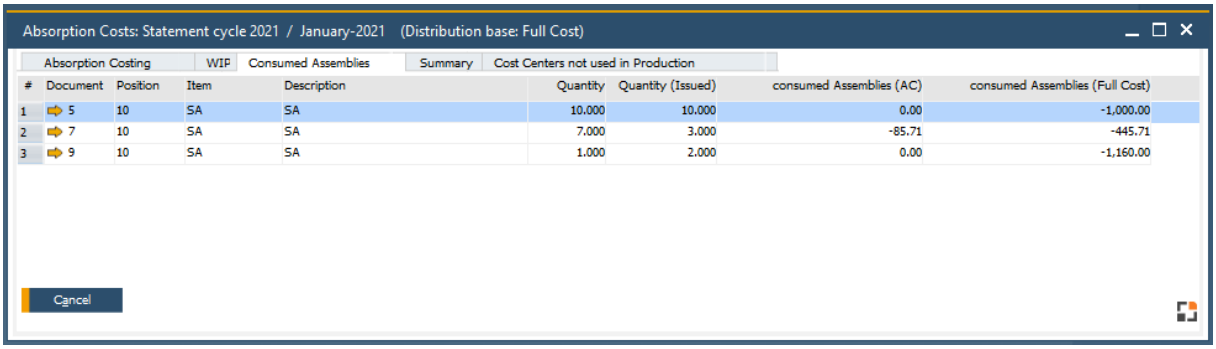
4.2.9.1.8.4 Consumed Assemblies

This tab shows all items produced and received in stock in the current month and consumed as sub-assemblies on an higher level work order in the current month.

Note: This tab only contains data for Batch/Serial-managed items.

PATH: Financials > Business Performance > Results > Reports > "Absorption Costing" > Consumed Assemblies tab.

© 2026 Boyum IT Solutions A/S



Window bab_absorpt_wip2.psr

Window settings are supported.

Field descriptions

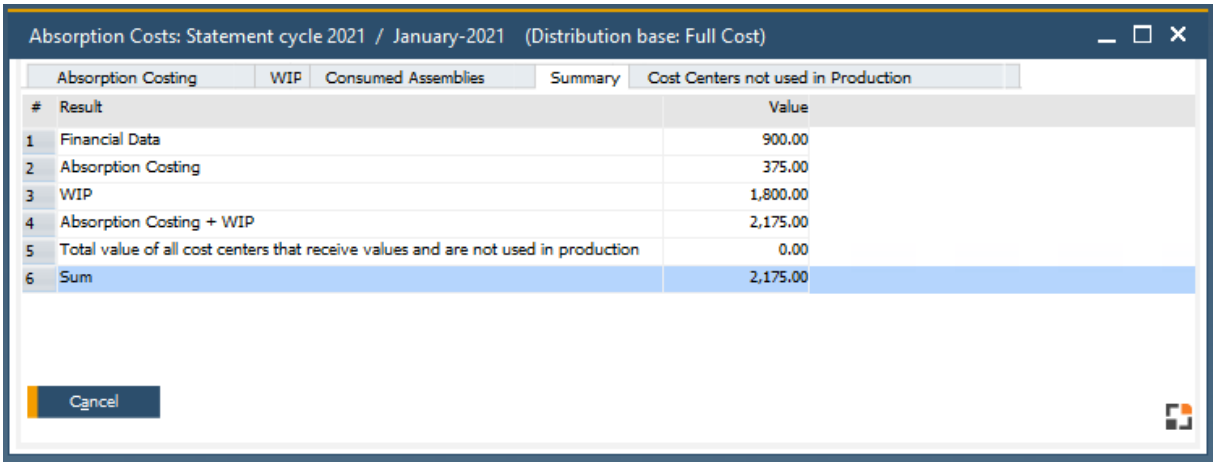
Field	Description
Document	Work order number
Position	Work order position number
Item	Item number
Description	Item description
Quantity	Planned quantity
Quantity (Issued)	Issued quantity
Qty. to produce	Quantity to be produced
Consumed Assemblies (AC)	Consumed assemblies – actual cost: appropriation value for absorption costing
Consumed Assemblies (Marginal/Full Cost)	Consumed assemblies – full cost: Labor and machine (L+M) production costs transferred between the work orders. ***See*** Marginal and full costs concept.

4.2.9.1.8.5 Summary

This tab displays the summary of the calculation for the current month and compares it to the financial data.

PATH: Financials > Business Performance > Results > Reports > "Absorption Costing" > Summary tab.

© 2026 Boyum IT Solutions A/S



Window bab_absorpt_wip2.psr

4.2.9.1.8.6 Cost Centers not used in Production

This tab displays the financial postings on cost centers mapped to Absorption costing that were not linked to any beas time receipts in the currently calculated month and have no distribution keys associated to them.

PATH: Financials > Business Performance > Results > Reports > "Absorption Costing" > Cost Centers not used in Production tab.

Window bab_absorpt_wip2.psr

Window settings are supported.

Field Descriptions

Field	Description
Cost Center	Source Cost Center from which distribution is started.
To Cost Center	Cost center receiving values from the Distribution key
Value	Distribution key value. Distributed value is based on the defined Distribution Base in the Statement Cycle definition: - Full Cost - Marginal Cost
Distribution key	Depending on the usage for the cost center. Name of Distribution key or Pre-Distribution key ***See*** Distribution key
Type	Values: • Distribution

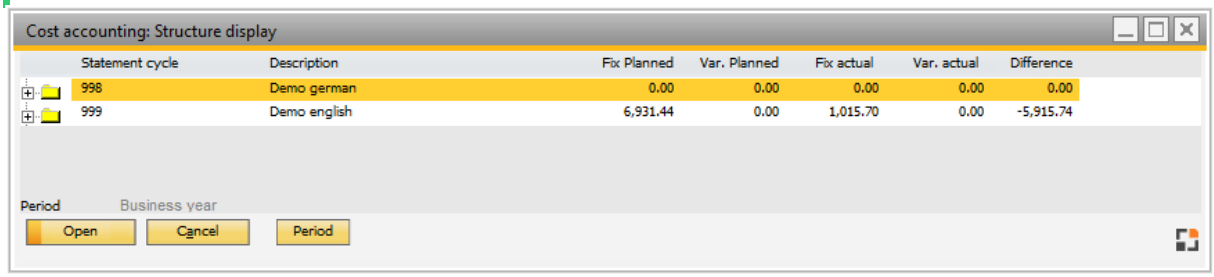
© 2026 Boyum IT Solutions A/S

Field	Description
	• Pre-Distribution • Direct ***See*** Cost Center definition

4.2.9.2 Structure display

The costs are broken down as structure. Any number of layers can be defined as cost center groups. The "Period" function can be used to configure the period for which the costs are displayed.

PATH: Financials > Business Performance > Results > Structure display.



Window bab_struktur.psr

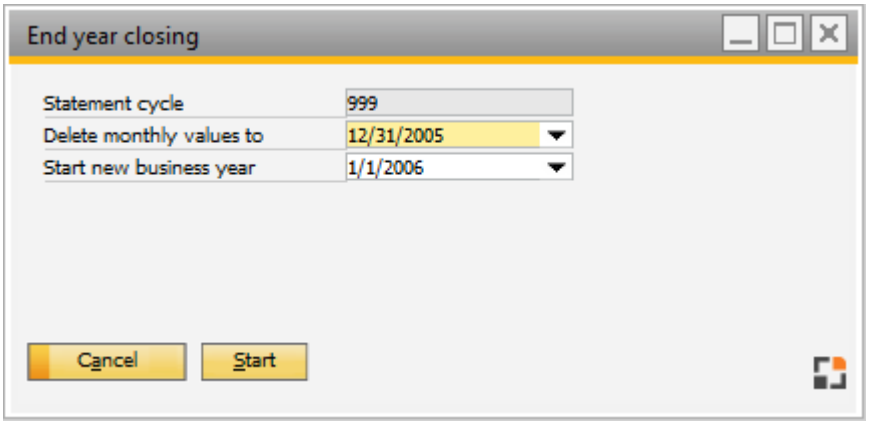
Field	Meaning
Statement cycle	Display defined statement cycles.
Description	Description statement cycle.
Fix planned	Fix planned costs.
Var planned	Variable planned costs.
Fix actual	Fix actual costs.
Var actual	Variable actual costs.
Difference	Determined difference between fix and variable costs.

4.2.9.3 Perform year end closing

Here the change from the current financial year to a new one is carried out for Business performance. Change the dates first and then start the change of year. Click the **Start** button to close the year. A pop-up system message confirms the successful closing of the year.

PATH: Financials > Business Performance > Results > End-year closing.

© 2026 Boyum IT Solutions A/S



Window bab_jahreswechsel_edit.psr

Statement cycle:

The current accounting area. All data will be imported into this area.

Delete Monthly Values to:

All previously accounted financial accounting data, payroll data and wages up to this date will be deleted.

Start new business year:

The date used as the date of the new business year is used to determine the annual result.

© 2026 Boyum IT Solutions A/S

5 Sales - AR

In the sales module you can find the Beas function Precalculation integrated.

Quotation, Sales order
- Deliver
- Capable-to-Promise (CTP)
- Available-to-Promise (ATP)
- Print SAP Document

Precalculation
- Edit Precalculation
- Pre-calculation extended view
- Lot Size and View per

All Purchase documents support the
- Macro Print solution
- Project / Tasks
- Item Version
- Beas Bin Location system
- Product configurator (Sales order / Quotation)
- Configurator (Sales order / Quotation)
- Work order creation (Sales Order)

and many more

Extended functions in sales and purchase areas

The following functions are available for all document types:

Function	Description
Inventory history	Call up inventory history for the current row.
Item master extended	Open Beas – item master sheet.
Entry and final remark	In this window (Form Id 60072) you can enter a text in RTF form using right-click. In the stored Crystal document set up printing the remark as RTF for these fields.

© 2026 Boyum IT Solutions A/S

Function	Description
	Note: SAP Business One does not support RTF. That is why in SAP Business One – Window "Entry and final remark" the text is not displayed correctly. If you set up everything correctly, the printout will also be correct.

Training unit 09 Calculation

5.1 Quotation, Sales order

SAP Business One window. Only the additional Beas functions are described. Right-click on a item row opens the right-click menu:
Macro Print solution supported

- Additional functions are available, but they are displayed only under the following conditions:

Functions for copy and edit are available only if the document exists: "Copy calculation" is possible only if a calculation was stored before.

In the Configuration wizard you can set up the visibility of various features. ***See*** Configuration wizard – Sales.

Using customer-specific script in postopen-event of the respective document type you can disable features:

setvar=ib_confignew=false	Configuration: new.
setvar=ib_configfromnew=false	New from configuration.
setvar=ib_configedit=false	Configuration: edit.
setvar=is_treetype_list	Treetype-list for item. Items with treetype S,T,A forbidden for the configurator via right-click-menu (standard).

© 2026 Boyum IT Solutions A/S

setvar=ib_calcnew=false	Precalculation: new.
setvar=ib_calccopy=false	Precalculation: copy.
setvar=ib_calcedit=false	Precalculation: edit.
setvar=ib_calcprice=false	Calculate price. Additional settings in `il_calcprice`.
setvar=il_calcprice=0	Define the price field. 0=normal, 1=gross profit base
setvar=ib_deliver=false	Deliver sales order.
setvar=ib_reservation=false	Reserve.
setvar=ib_project=false	Define project assignment.

Example

Sales order – disable all Precalculation features:

```
windowevent open
setvar=ib_calccopy=false
setvar=ib_calcedit=false
setvar=ib_calcnew=false

// Treetype "T" (Template), call of Configurator via right-click-menu allowed
setvar=is_treetype_list=S,A
end event
```

Notes on setup of SAP Business One

Beas needs to access some fields in quotation or sales order. These fields must be visible and editable.

Affected fields:

Field	Description	UDF Name
Configuration	Used for product configuration.	beas_vri
Variant	Used for variants A-Z.	beas_shortvariant

© 2026 Boyum IT Solutions A/S

Calculation	Enter the calculations number here.	beas_precalcnr
Drawing number	Used when working with a document specific drawing number.	beas_znr
Task	Used for Project – task assignment.	beas_prjud
I-Version	Used for item versions.	beas_ver

If one of these fields is required but not available in the view, an error is displayed:
Error in SAP FORM. Details: Col. Name: .... SAP ERROR: Item – Form item is not editable ...

To enable editing, open in the respective window "**Window settings" > "Table**" – select the fields and switch to visible and editable.

Available functions

Overview of all additional Beas functions inside Sales Order and Pre-Invoice.

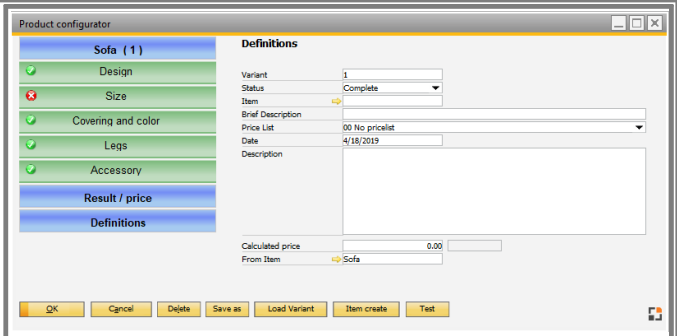
Column License: This function is only available if one of the following licenses is active:

Function	License	Document type	Meaning
Inventory History	Beas basic	all	Opens the inventory history for this item. ***see*** Inventory history
Extended Item master	Beas basic	all	Opens the extended item master.
Deliver	Beas basic	Sales Order	Opens the delivery menu for external operation. Deliver reserved items A simplified "deliver" window is opened. Batches, Serial numbers and bin location are supported. This feature is available only if goods has been reserved (reservation system needs to be enabled). Note Available functions for delivery: - Delivers all the reserved goods - Use SAP B1 Pick List and Beas WebApp "Pick&Pack" - Use Beas WebApp Pick Delivery

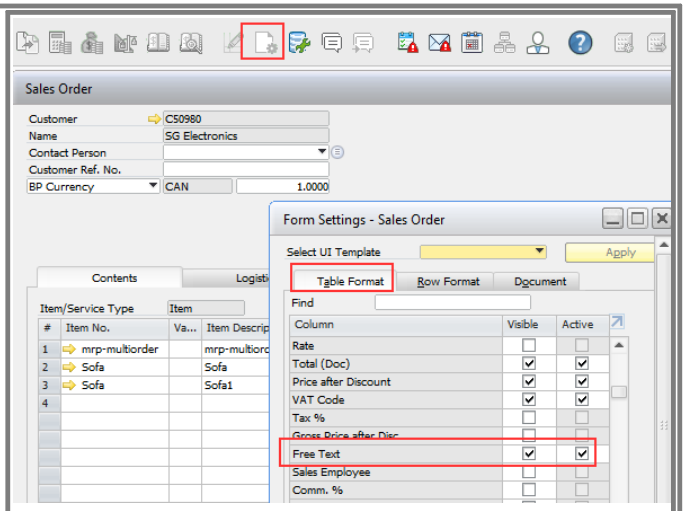
© 2026 Boyum IT Solutions A/S

			see Deliver
Reservation	Beas basic	Sales Order	Fix reservation of goods Function is only visible if - Reservation system has been activated - the sales order was saved and is not open or canceled - Variable `ib_reservation` is not `false` (use to disable the function) This function runs in parallel to the SAP Business One-reservation function with the following features: - Reservation of planned inflow (work orders) - Support of scanners - Easy reservation down to batch/serial number/bin level, as well as, for simple items Reserved goods can be used only in Beas-delivery function. ***See*** function Deliver. **IMPORTANT:** This option is not available when Produmex WMS is installed in the system. ***See*** Reservation system Reservation list Configuration wizard – Reservation Production – Link **Reservation with deactivated reservation function** If the reservation system is disabled and you need to withdraw goods from the warehouse, the required quantity can be entered to the field "withdraw from warehouse".
Configuration: new	Product configurator	Sales Order	Open the configuration window (product configurator)

© 2026 Boyum IT Solutions A/S

	or Product Configurator sales	Sales Quotation	 *Window prd_links2.psr* This only works if a configuration definition was created for the selected item first. ***See*** Product Configurator If you created a configuration, beas writes back in the sales document (related to settings). - Item Description, Price, Configuration Id and Long description. - if you create a new item for this Configuration, beas writes back only the item code, but not the configuration id. Reason: The configuration is defined for the original item (example Sofa) and not for the created item. For using this, you must make the fields in Sales Order / Quotation visible: - Item Description (Column 3) - Unit Price (Column 14) - Configuration (Column U_beas_vri) - Free Text (Column 163)

© 2026 Boyum IT Solutions A/S

			 *Window beasgui_sbo.psr* ***See*** Product Configurator
Configuration: edit	Product configurator or Product Configurator sales	Sales Order Sales Quotation	Open the stored configuration. ***See***: New configuration.
Calculation: New	Beas basic or Product Configurator sales	Sales Order Sales Quotation	Creates a new pre-calculation for order related items. **Working with Precalculation** The Precalculation allows to calculate an existing item or to build up a complete new calculation. You have full access to the BoM, the routing and the planning data of the item, it is copied here and can be changed completely, without having an impact on the master data. You can perform a quotation costing from SAP Business One. To do so, a calculation can be opened directly from an SAP Business One offer. After having configured and calculated the proposed item, the price is determined and can be entered in the offer. If the offer is accepted, a production order can be created from the calculation.

© 2026 Boyum IT Solutions A/S

			The customer number, item number, quantity and item description are transferred to the Precalculation from the Sales order. If the calculation is saved and closed, the calculation price of the first lot size is entered to the sales order. In field "Calculation" the "Calculation number 2" is entered, and thus linked to the sales order line. Product configurations and variants are supported. If you save the calculation, the system asks "Enter 500 as sales price in sales document?" The system uses the price saved in calculation schema position "Sales price", type "Sales price according to input" ***See*** Product Configurator Variant **Note:** Function is only available if no calculation number was entered in the field "calculation". To create a new calculation, simply remove the number from that field. If this is an item with a configuration, calculation can be created only AFTER the configuration definition. **Note:** Using the calculation, the item can be adapted for a specific sales order. Therefore, the item is produced customer-specific and order-related. For this reason, no Precalculations for stock-related assemblies can be created from here. For stock-related items the function is hidden. ***See*** Precalculation

© 2026 Boyum IT Solutions A/S

Calculation: copy	Beas basic or Product Configurator sales	Sales Order Sales Quotation	Copy the existing calculation, save it with a new number and open the calculation window with the new calculation.
Calculation: edit	Beas basic or Product Configurator sales	Sales Order Sales Quotation	Open the stored Calculation.
Calculate price	Beas basic or Product Configurator sales	Sales Order Sales Quotation	Create a pre-calculation and transfer the price Function can be called only if: • assembly is order related (Item-scheduling ID = order related) • in quotations or sales orders • no precalculation exists • no product configuration definition was stored, or a configuration which has been calculated already exists • the document was not closed **Customization:** If you define variable `ib_pricecalc` with false, the option will not be available Function starts as invisible in the background; Precalculation determines a price and enters it in the price field. Use variable `il_calcprice` to determine where to enter the price: 0 (= Standard): unit price 1 = Gross Profit Base Price

© 2026 Boyum IT Solutions A/S

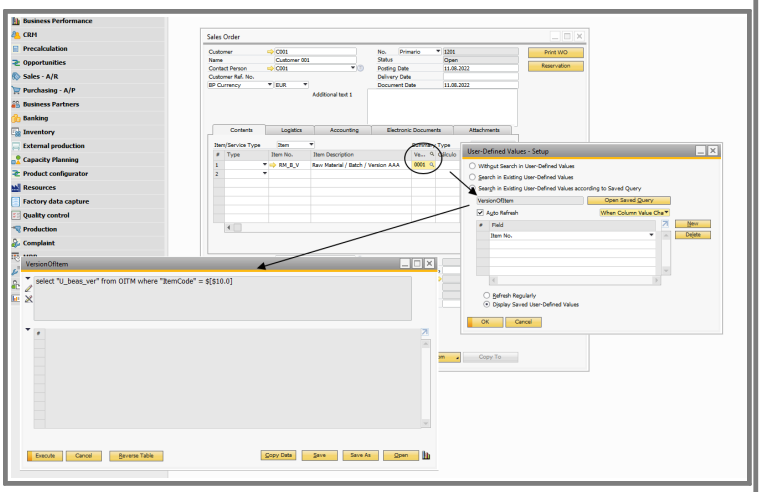
			Variables can be stored in an open Event of the respective document.
			
			Example: disable function
			`windowevent open`
			`setvar=ib_calcprice=false`
			`end event`

Work order: new	Beas basic or Product Configurator sales	Sales Order Reserve Invoice	Create work order for the selected row. Function is available first after saving the sales order. By right-clicking outside the table you can create work orders for all rows of the sales order. The window "Sales order to work order" opens. This is only available if you have a Beas basic license. Conditions for work order creation: - sales order must be saved - item is a production item - Configuration wizard > Sales > Work order was not disabled. - It is not a Sales-item, Template-item or Assembly (OITM.TreeType may not be S, T or A) - the user has access to create work orders Notes: **SBO Production BoM**: Even if no SAP Business One Production BoM was stored, it is not considered in Beas **Production Warehouse**: Warehouse is selected according to the standard rules for the work order warehouse logic used in the sales order to work order functionality.
Work order: edit	Beas basic	Sales Order Reserve Invoice	Open or edit assigned work order. If a work order for the respective row was already created, it is displayed.

© 2026 Boyum IT Solutions A/S

			Function is available only if it was not disabled in Configuration wizard > Sales and the access for the production has been granted.
Work order: display	Product Configurator sales	Sales Order	Displays a work order.
Project Assignment	Beas Project	Sales Order	Assign the sales order line to a Project Activity.

Additional fields:

Field	Meaning
Item No.	Provide Item number. **IMPORTANT:** The default I-Version in the Item Master Data is **NOT** assigned automatically in sales/purchase documents. To insert I-Version automatically, use the standard SAP "Formatted search" function: **Automatic I-Version insertion:** 
Variant simple	Determines which type of variant to use. Only supported for order-related manufacturing. ***See*** Variants *rdr1.U_beas_shortvariant*
Configuration	Selected configuration. ***See*** Product configurator *rdr1.U_beas_vri*
Calculation	Number of Precalculation linked to the sales order line. ***See*** Function "new calculation" *rdr1.U_beas_precalcnr*

© 2026 Boyum IT Solutions A/S

Field	Meaning
Priority code	Affects the order recommendation report. It has a higher priority than the code in item master. ***See*** Configuration wizard > MRP wizard > Computation Order recommendation report *rdr1.U_beasprior*
Desired delivery date	For production planning: desired delivery date. *rdr1.U_beas_requestdel*
Confirmed delivery date	For production planning: delivery date confirmed Allowed values: Y=Yes, N=No *rdr1.U_beasdelconfirm*
withdrawal from warehouse	Take stock from warehouse for order related items If you want to deliver an order-related item from a warehouse, you must define this amount here. Otherwise the system attempts to deliver this from an order-related work order. ***Example:*** You need 10 Pcs from an order-related item. You want to deliver 6 from stock and want to produce 6. If you deliver 6 Pcs from Stock, the system wants to produce 10 Pcs. Only if you define "withdrawal from warehouse" = 6, the system calculates correctly: We need additional 4 Pcs.

Language:

SAP Business One does not support multilingual setting for UDF Fields. It is only possible to define one language per database.

If the wrong language was defined, you can change this in the Configuration wizard.

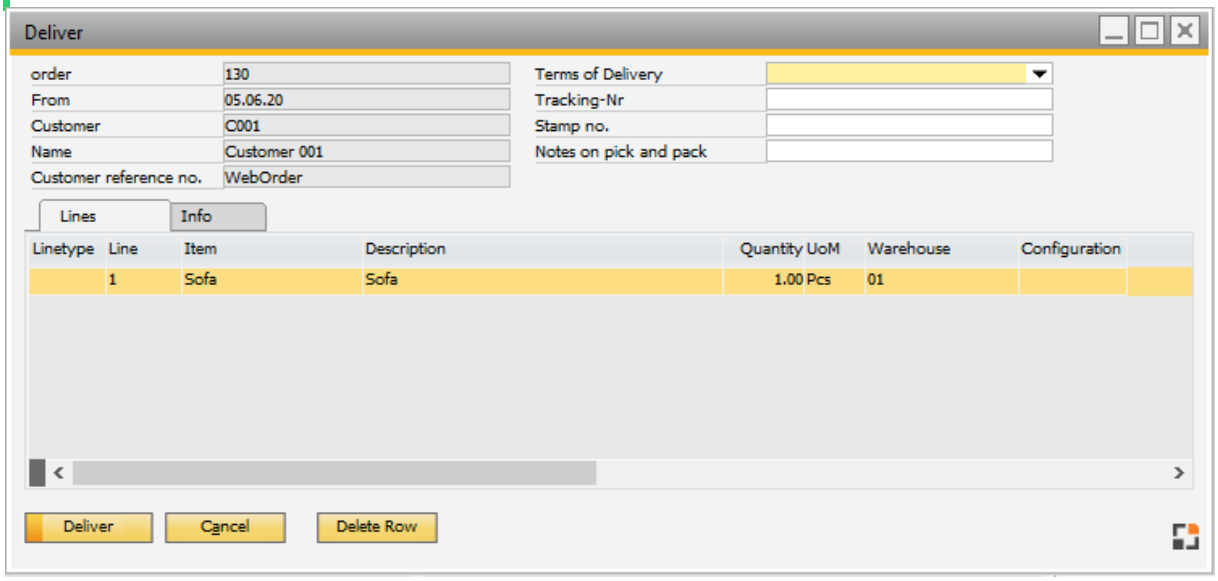
5.1.1 Deliver

In Sales order > right-click > "Deliver", you can deliver reserved items.

Additional information for the delivery can be entered here, which will then be transferred to the subsequent document.

© 2026 Boyum IT Solutions A/S

PATH: Sales > Sales order > right-click on an item > "Deliver"



Window shipping_ delivery_ header.psr

Field	Description
Order	Order number
From	Creation date
Customer	Customer ID
Name	Customer name
Customer reference no.	Customer reference
Terms of Delivery	Selection from stored conditions
Tracking Nr.	Tracking number for shipping
Stamp no.	Stamp number
Notes on pick and pack	Remarks for picking and packing can be entered here

The bottom view lists the items to be delivered for this shipment.

Additional remarks can be stored in the "Info tab".

Buttons

Field	Description
Deliver	A Delivery note is created. The information entered here will be transferred there.
Cancel	Close the window without saving changes.
Delete row	Delete the selected row.

© 2026 Boyum IT Solutions A/S

Limitations:

Preassigning quantities for batch/serial-managed items is not supported. We recommend using WebApp Pick Delivery for that purpose.

Reservations are not checked by the system.

No combination of several sales orders to one delivery note.

No SAP or WMS Bin support.

See:

Quotation, Sales order

Reservation list

Reservation

Cross reference

5.1.2 Capable-to-Promise (CTP)

With the Capable-to-Promise, the expected delivery date can be determined based on forward resource-scheduling and consideration of existing resource reservations.
This function is only available with active APS License.

What does Capable-to-Promise System (CTP System) mean?

A capable-to-promise (CTP) system is a system that helps companies anticipate demand and match it to their peak production and capacities. Using a CTP system allows a business to create a balance between what it can produce and what customers and clients are requesting.

CTP is a global way of looking at demand and capacity.
The system takes into consideration a lot of factors including raw materials for products, inventory, transportation, labor and supply chain issues.

Considering all these, the CTP system helps to deliver accurate predictions for a given company.
The system was named "Capable-to-Promise" because it measures the capability of a company to promise reliable results to a buying community.

The difference between Available-to-Promise (ATP) and Capable-to-Promise (CTP)

The basic dfference between the two systems is that while ATP looks at the availability of materials, ignores time reservation,
CTP assesses the extra components, considers labor availability, the capability of the business fleet and how materials work through a supply chain.

© 2026 Boyum IT Solutions A/S

To achieve this, CTP may consult several production departments for useful information to assess delivery possibilities.
For details on Available-to-Promise in Beas ***see*** next chapter, ATP.

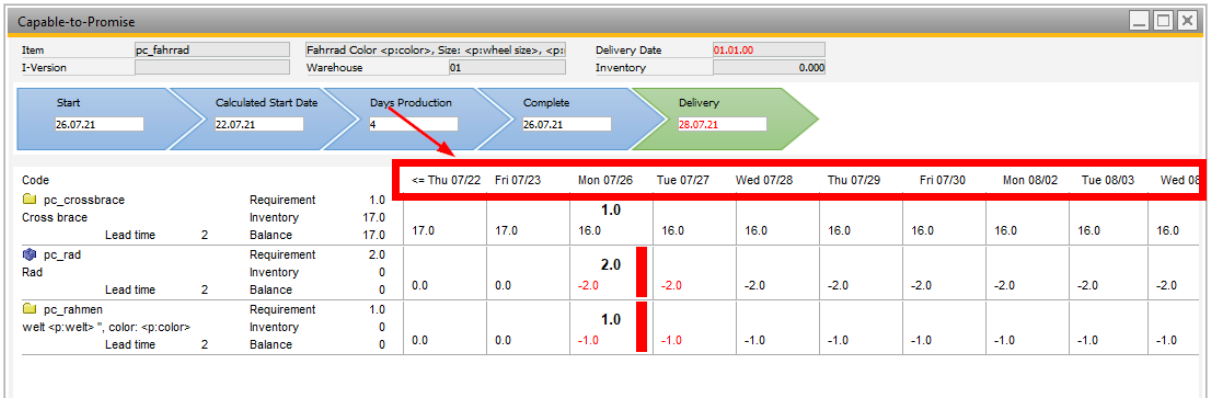
For Configuration ***See*** Configuration Wizard > Sales.

PATH: Sales – A/R > Sales Order/Sales Quotation > right-click on an item > select "Capable-to-Promise".

The information in the right window section is grouped by Days/Weeks based on the calculated value of the "Days Production" field in the process flow bar in the top section.
Days Production: Displays the number of days necessary to complete production of an item.

"Days production" < 15: The information is grouped by days.
"Days production" > 15 * 7: The information is grouped by Months.
"Days production" > 15 AND < 15*7: The information is grouped by Weeks.

In the below example, grouping is according to days:



Window atp_view.psr

The Beas CTP:

- Creates a forward calculation for the assembly.
- Checks availability of resources and material for the complete order-related sub-structure of the assembly.
- Displays the possible delivery date.
- Displays material- and resource information needed for this assembly.

© 2026 Boyum IT Solutions A/S

What you need for using CTP:

APS License
Correct planning data inside the system
Actual MRP

Limitations

The CTP uses the Default MRP function to calculate lead time.
It is a resource planning tool.
The CTP cannot determine the actual delivery date. It is only an auxiliary tool for the seller. A more precise statement can be determined using the APS.

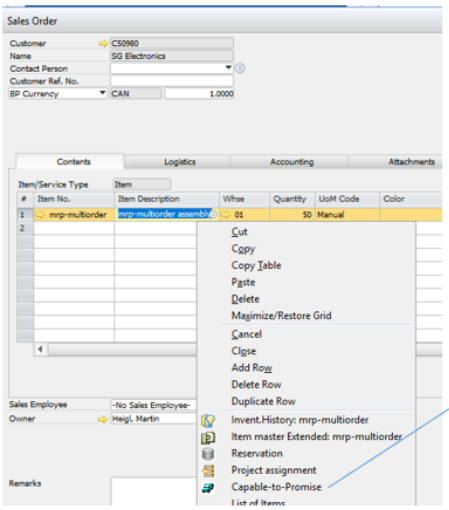
The CTP
- Ignores Variants (Formulas and Scripts), Configurations and Precalculation, but supports Short Variant (A-Z) and Item Version control.
- Ignores formulas inside Bill of Materials and Routing positions.
- Ignores routing related Bill of Materials Positions.
- Ignores resource reservation from other sales order if work order does not exist.
- Material check is based on last MRP run and it does not check the actual material situation.

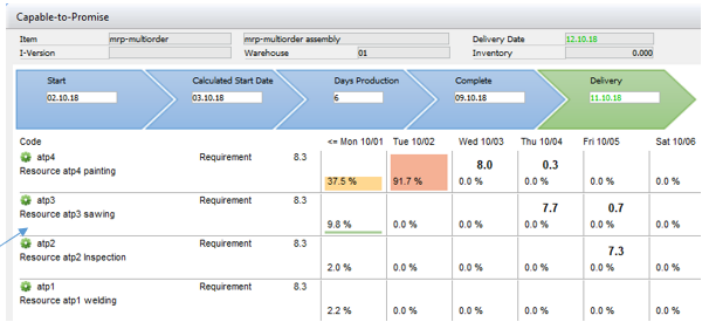
Before you start:

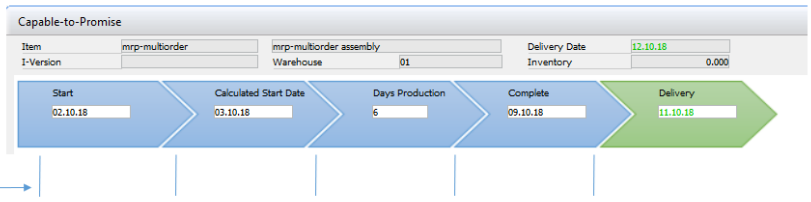
- CTP can deliver correct information only if all data are correct.
- Define a default MRP (***see*** Configuration wizard) and calculate this every day.
- Calculate work orders in APS every in day and use forward calculation. If resource reservations are in the past, the result cannot be correct.

The CTP working process:

© 2026 Boyum IT Solutions A/S







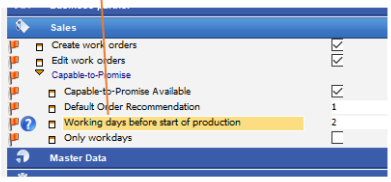
today

Date available for the needed first resource and material position

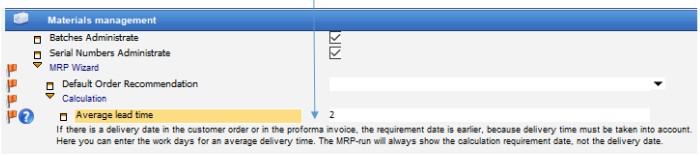
Production end

Delivery Date =
Complete date + Avg lead Date

Duration time for complete production

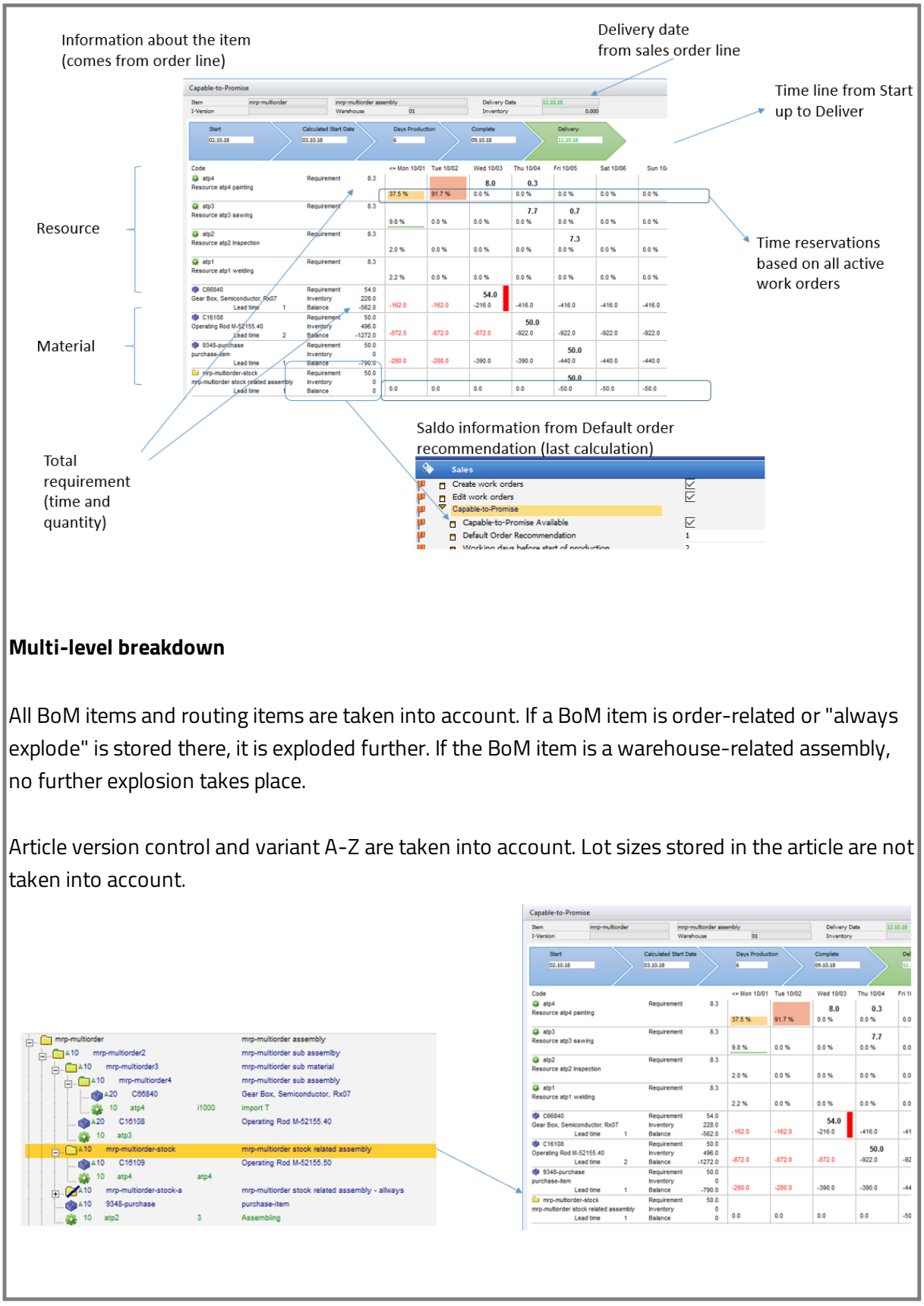


Days counted in workdays; based on beas factory basis calendar.



Days counted in workdays; based on beas factory basis calendar

© 2026 Boyum IT Solutions A/S



Multi-level breakdown

All BoM items and routing items are taken into account. If a BoM item is order-related or "always explode" is stored there, it is exploded further. If the BoM item is a warehouse-related assembly, no further explosion takes place.

Article version control and variant A-Z are taken into account. Lot sizes stored in the article are not taken into account.

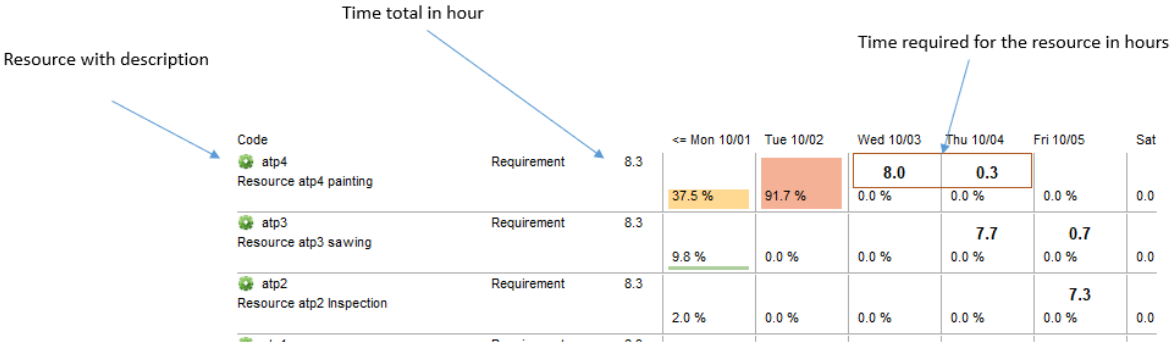
© 2026 Boyum IT Solutions A/S

Forward Calculation

Forward scheduling with consideration of existing production orders (in production, planned orders etc.) is used. It is not planned to infinity (= CTP). Forecast or existing sales orders are not taken into account here (MRP2).
The original APS forward scheduling is used. The default settings are not changeable. It always uses forward calculation.
The default is the routing. All stored rules and optimization functions are considered, including parallel tools and resources and resource optimization.

Sub-assemblies are expanded first. You can only expand the assembly when all sub-assemblies have been completed.

Resource View in CTP



Time reservation from active work orders in this time period
(first column is all from past up to this date)

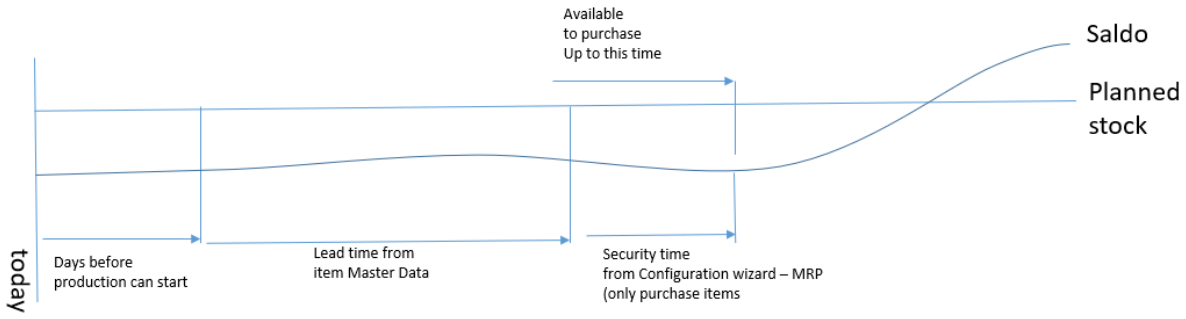
All in %, related to Plan capacity for this time period (day, week, month)
if reserved time > 100%, beas display 100%.

Color: Green ≤ 20%, Yellow ≤ 80%, Red > 80%

© 2026 Boyum IT Solutions A/S

Material consideration

The CTP takes the availability of the material into account. The Reference is the result of the last material requirements calculation of the MRP definition stored in the CTP.
Depending on the MRP definition, sales orders and forecasts are taken into account. You can use the same MRP as the reference that is used in the item history.
If an Item (Material or stock-based assembly) is not available, the lead time stored in the item is used.



All days in work days based on basic factory calendar

C66840		Requirement	54.0			**54.0**			
Gear Box, Semiconductor, Rx07		Inventory	228.0						
Lead time	1	Balance	-562.0	-162.0	-162.0	-216.0	-416.0	-416.0	-416.
C16108		Requirement	50.0				**50.0**		
Operating Rod M-52155.40		Inventory	496.0						
Lead time	2	Balance	-1272.0	-872.0	-872.0	-872.0	-922.0	-922.0	-922.
9348-purchase		Requirement	50.0					**50.0**	
purchase-item		Inventory	0						
Lead time	1	Balance	-790.0	-280.0	-280.0	-390.0	-390.0	-440.0	-440.
mrp-multiorder-stock		Requirement	50.0					**50.0**	
mrp-multiorder stock related assembly		Inventory	0						
Lead time	1	Balance	0	0.0	0.0	0.0	0.0	-50.0	-50.0

Saldo time line

RED Color : Material not available AND not possible to deliver
Black: Material available OR there is enough time to purchase this item
Red rectangle: This material is the reason of the delay

5.1.3 Available-to-Promise (ATP)

With the Available-to-Promise, the expected delivery date can be determined based on forward resource-scheduling and consideration of existing resource reservations.
This function is for all companies without APS License.

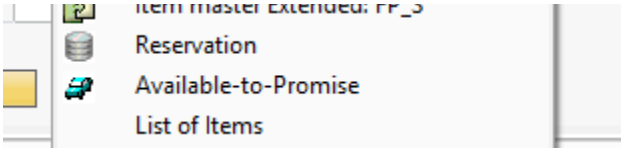
▣ What does Available-to-Promise System (ATP System) mean?

An available-to-promise (ATP) system is a system that helps companies anticipate demand and match it to their peak production and capacities. Using a ATP system allows a business to create a balance between what it can produce and what customers and clients are requesting.

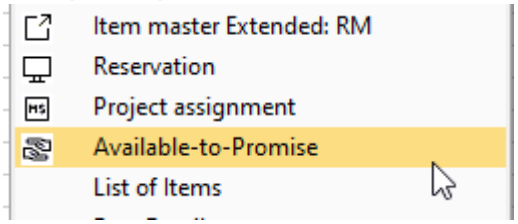
© 2026 Boyum IT Solutions A/S

ATP is a global way of looking at demand and capacity. The system takes into consideration a lot of factors including raw materials for products, inventory, transportation. Considering all these, the ATP system helps to deliver accurate predictions for a given company.

You can access ATP in SAP Business One if you do not own an APS License by opening a **Sales Order/Sales Quotation > right-click** on an assembly line:



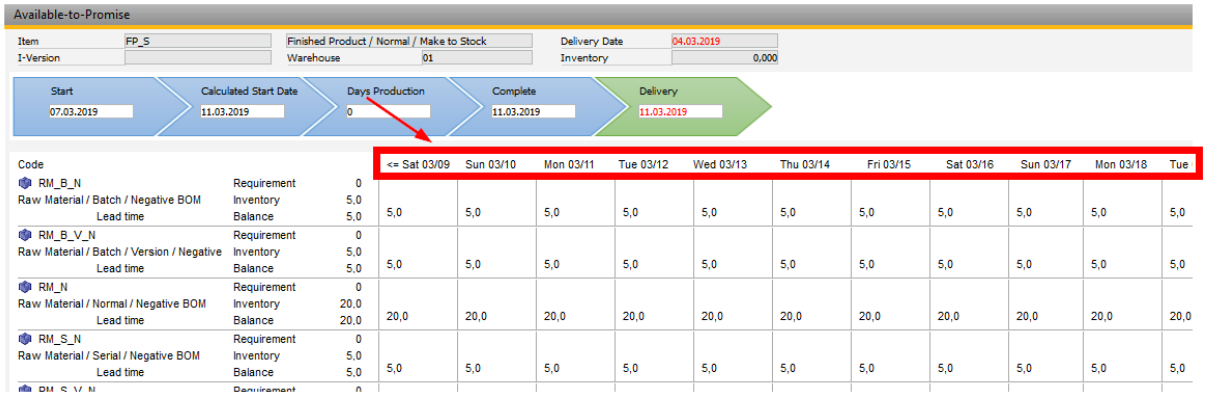
in **Boyum Style**:



The information in the right window section is grouped by Days/Weeks based on the calculated value of the "Days Production" field in the process flow bar in the top section.
Days Production: Displays the number of days necessary to complete production of an item.

"Days production" < 15: The information is grouped by days.
"Days production" > 15 * 7: The information is grouped by Months.
"Days production" > 15 AND < 15*7: The information is grouped by Weeks.

In the below example, grouping is according to days:



Window atp_view.psr

© 2026 Boyum IT Solutions A/S

For further details on differences between Capable-to-promise (CTP) and Available-to-Promise (ATP) functions, ***see*** CTP vs. ATP in previous chapter.
For Configuration ***See*** Configuration Wizard > Sales

The Beas ATP:

- Creates a forward calculation for the assembly.
- Checks availability of resources and material for the complete order-related sub-structure of the assembly.
- Displays the possible delivery date.
- Displays material- and resource information needed for this assembly.

What you need for using CTP:

No APS License
Correct planning data inside the system
Actual MRP

Limitations

The ATP uses the Default MRP function to calculate lead time.
It is a resource planning tool.
The ATP cannot determine the actual delivery date. It is only an auxiliary tool for the seller.

The ATP
- Ignores Variants (Formulas and Scripts), Configurations and Precalculation, but supports Short Variant (A-Z) and Item Version control.
- Ignores formulas inside Bill of Materials and Routing positions.
- Ignores routing related Bill of Materials Positions.
- Ignores resource reservation from other sales order if work order does not exist.
- Material check is based on last MRP run and it does not check the actual material situation.

Before you start:

- ATP can deliver correct information only if all data are correct.

© 2026 Boyum IT Solutions A/S

- Define a default MRP (***see*** Configuration wizard) and calculate this every day.
- Calculate work orders every day and use forward calculation. ***See*** APS. If resource reservations are in the past, the result cannot be correct.

For more information on the complete process ***see*** CTP.

5.1.4 Print SAP Document

Beas has an own framework to print SAP transaction documents as Quotation, Sales Order, Purchase order or Invoice.
Use Beas Print System only,
- if SAP integrated system is not optimal.
- if you cannot use B1 Print & Delivery

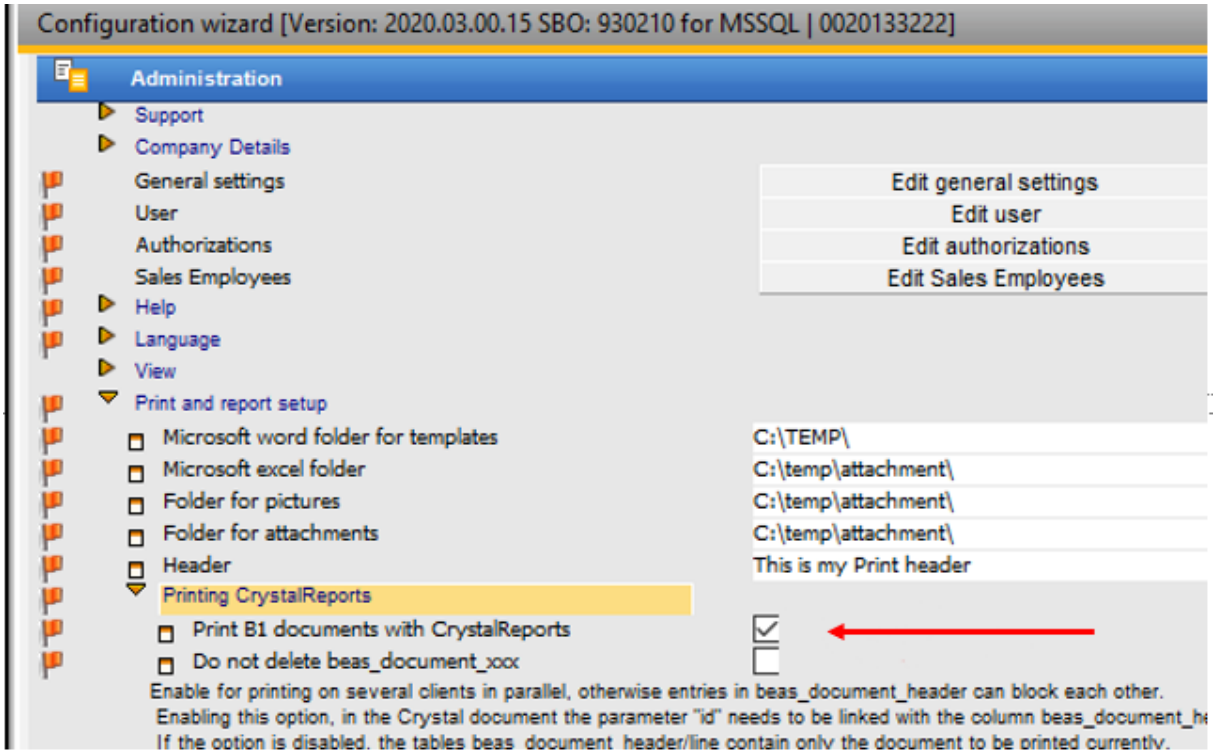
What is special in Beas Print solution?

Advantages:
- Multi-language support
- Possible to use only 1 report for all documents
- Simple Crystal report creation
- All macro functionalities are inside

Disadvantages :
- This module is "in maintenance": We support this, but are not working on a new functionality, because we have the product B1 Print & Delivery with more functionality.
- The document must be saved before you can print it.

How to use:
1. Activate Beas Print solution

© 2026 Boyum IT Solutions A/S



2. Now the system is activated.

if you click on Preview icon in SAP document, the system displays the Crystal report.

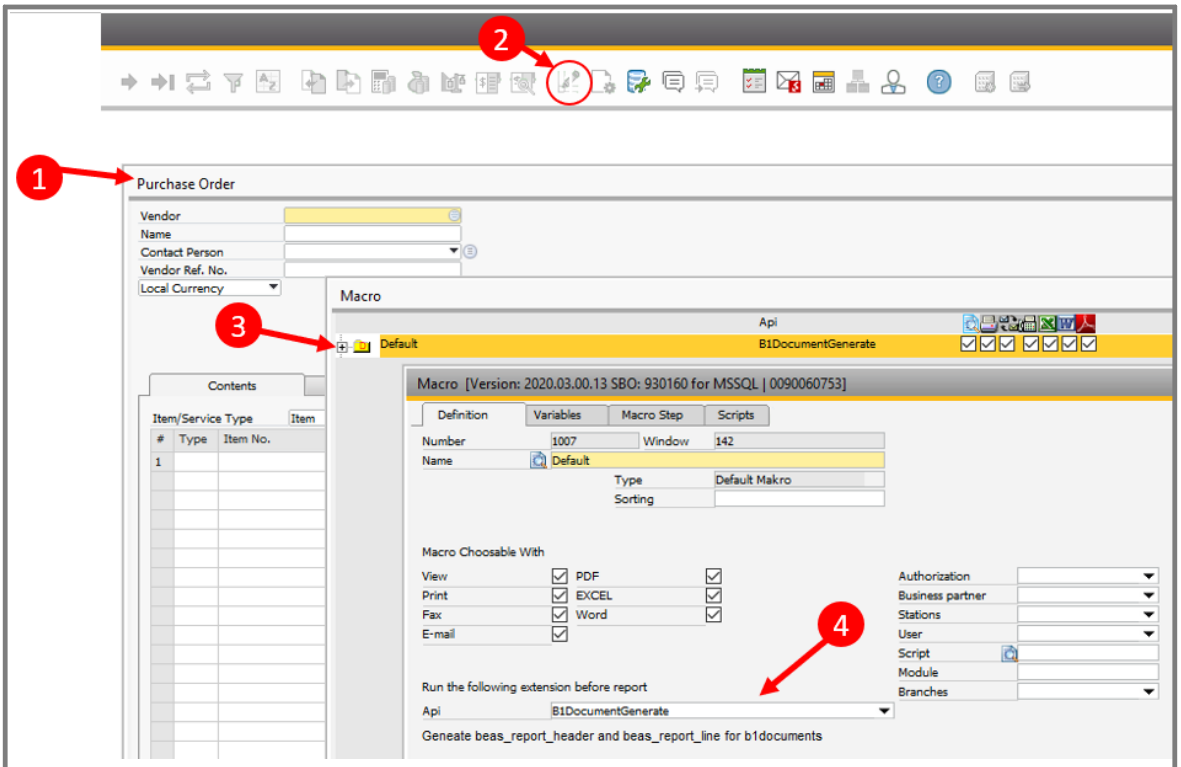
Configuration

The Report is a normal Beas Macro.

You can change it if you click on this icon.

Special: You must define the API "B1DocumentGenerate". If this is activated, the system generates the table "BEAS_DOCUMENT_HEADER" and "BEAS_DOCUMENT_LINE". You can find all relevant information about the current document in both tables.

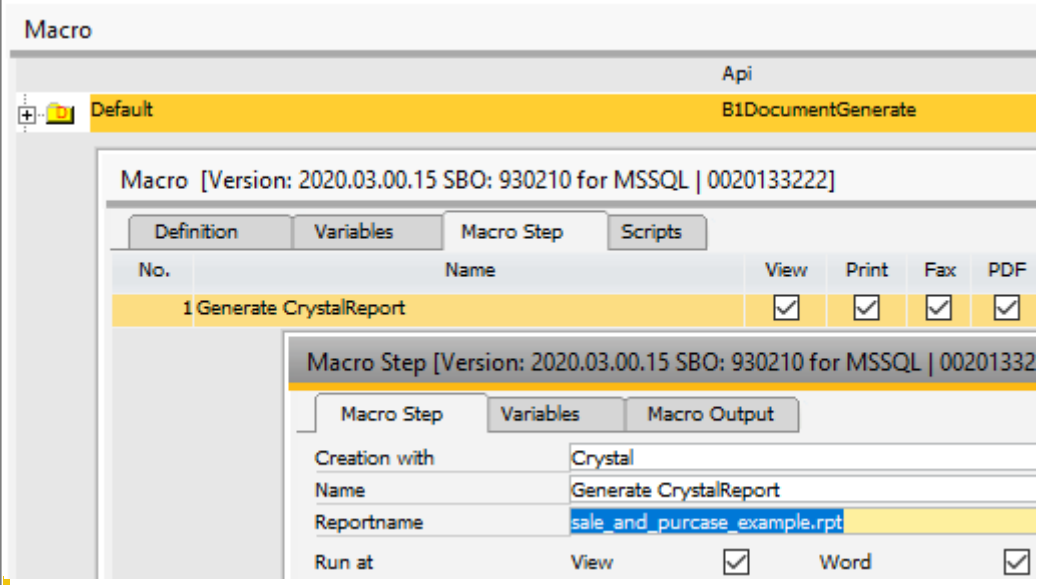
© 2026 Boyum IT Solutions A/S



The Default macro use the report "sale_and_purchase_Example", saved in folder **c:\program files(x86)\beas software\beas\program\report**

You can copy this to the project folder and can change this report.

If you change the file name, you must insert the new name in the Report name of the default report.

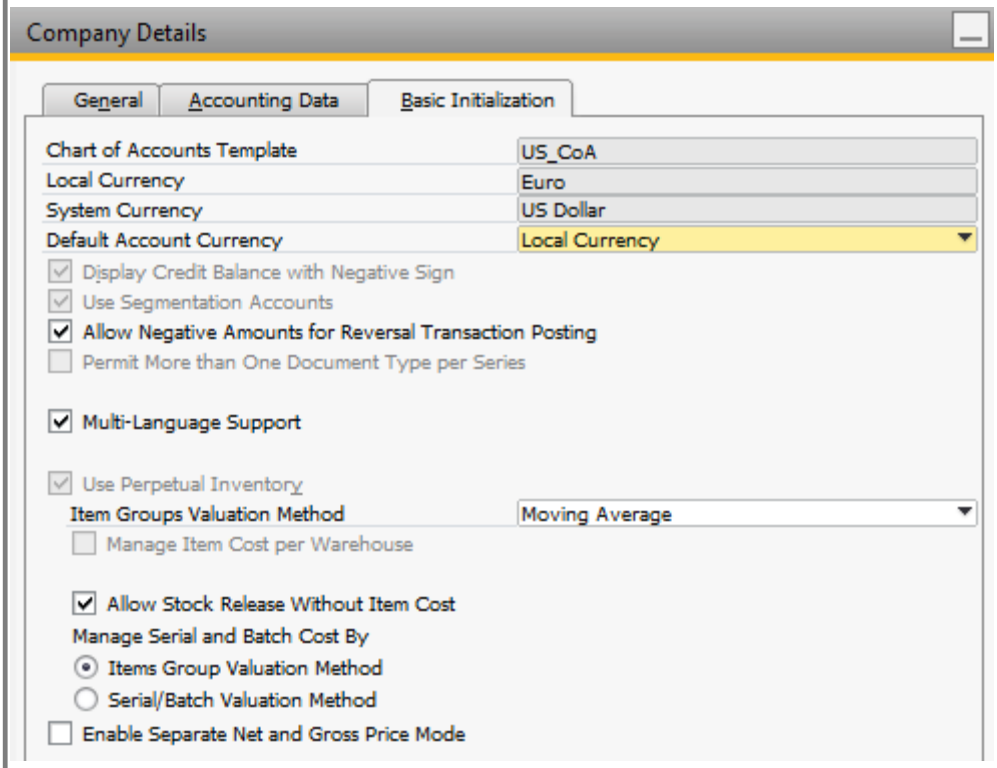


Note: Default macros are not replaced after Program update. This macros are changeable.

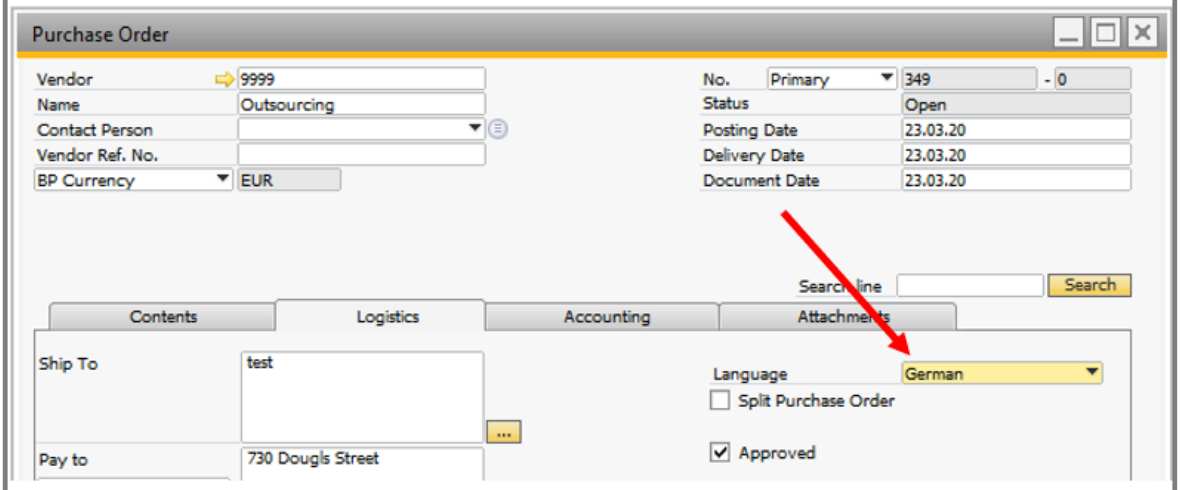
© 2026 Boyum IT Solutions A/S

- Multi language

SAP Business One Multi-language is supported.

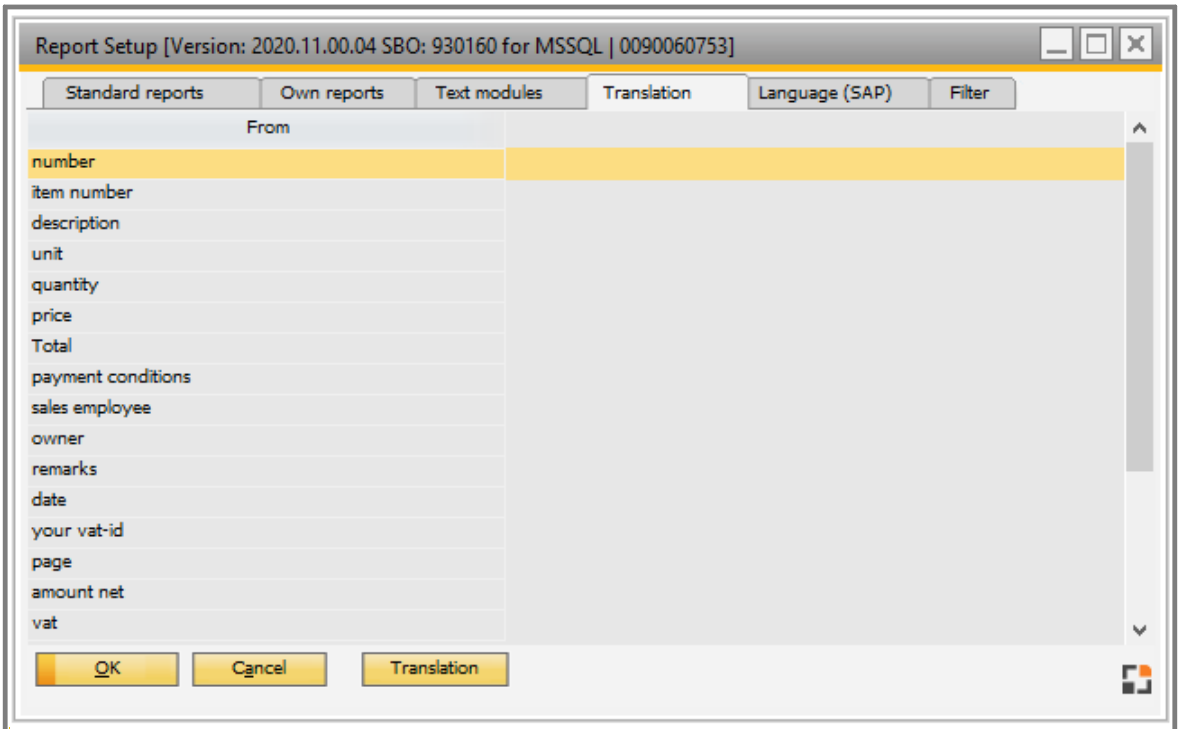


The report will be printed in the language defined in **Purchase Order > Logistics tab > "Language":**



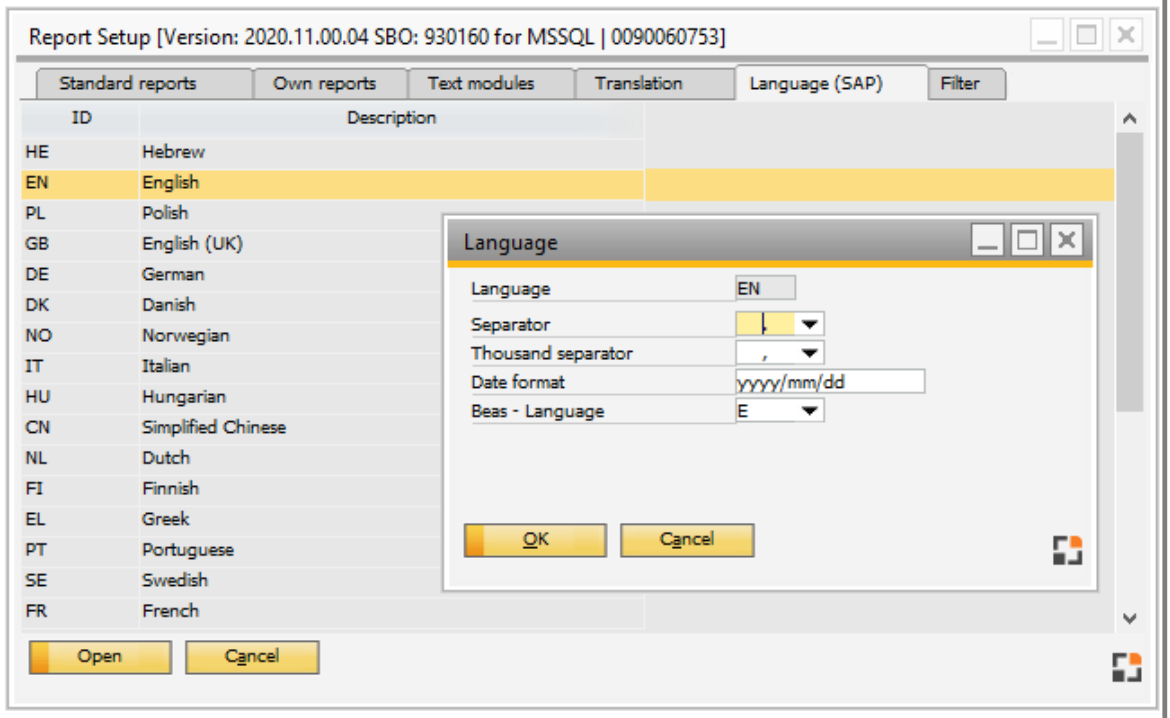
In Report setup you can define the translation from your own pool of expressions:

© 2026 Boyum IT Solutions A/S



Note: Beas always translates from German to other languages. If you use keywords in another language, you must define it here in this window.

In tab language (SAP) you can define the Beas translation language, number and date format.



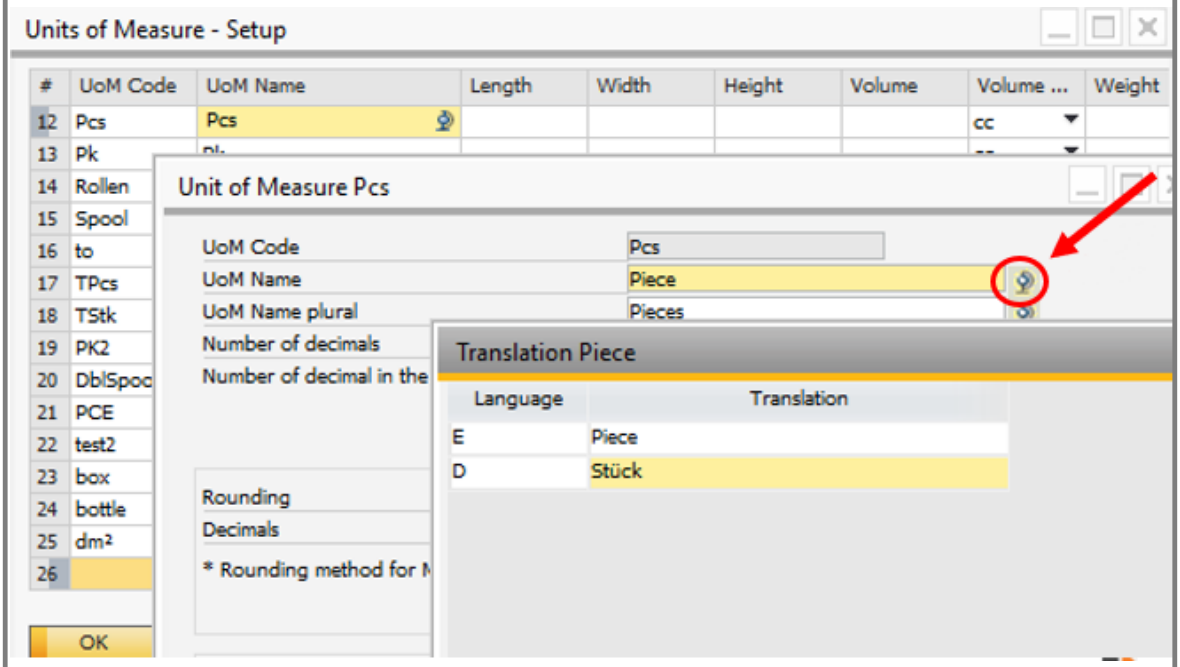
For more information ***see*** Date and Number format.

© 2026 Boyum IT Solutions A/S

Translate Unit of Measurements

Open **Units of measurement > right click > extended > click on translate icon**

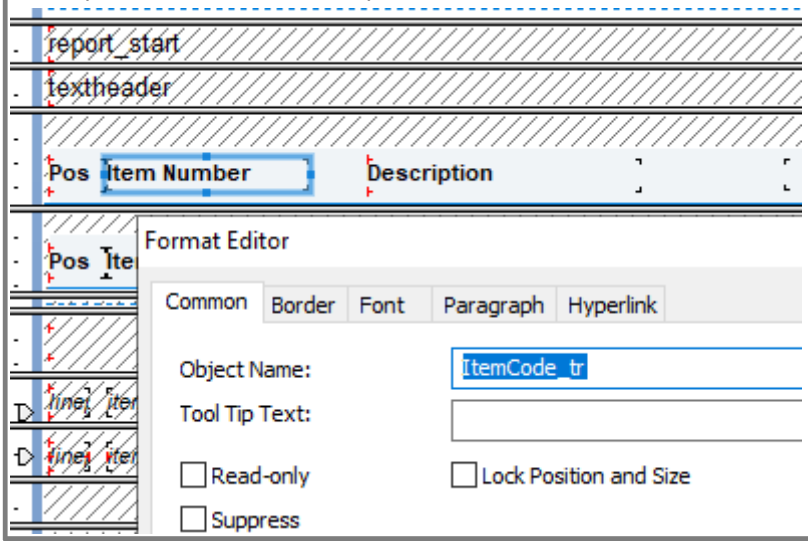
Here you can define the translation from UoM Description in all other languages.



Crystal Report

In Crystal report all text objects must have an object name with Postfix "_tr"

If this postfix is defined, the system tries to translate this word.



© 2026 Boyum IT Solutions A/S

5.2 Precalculation

PATH: Sales – A/R > Precalculation.

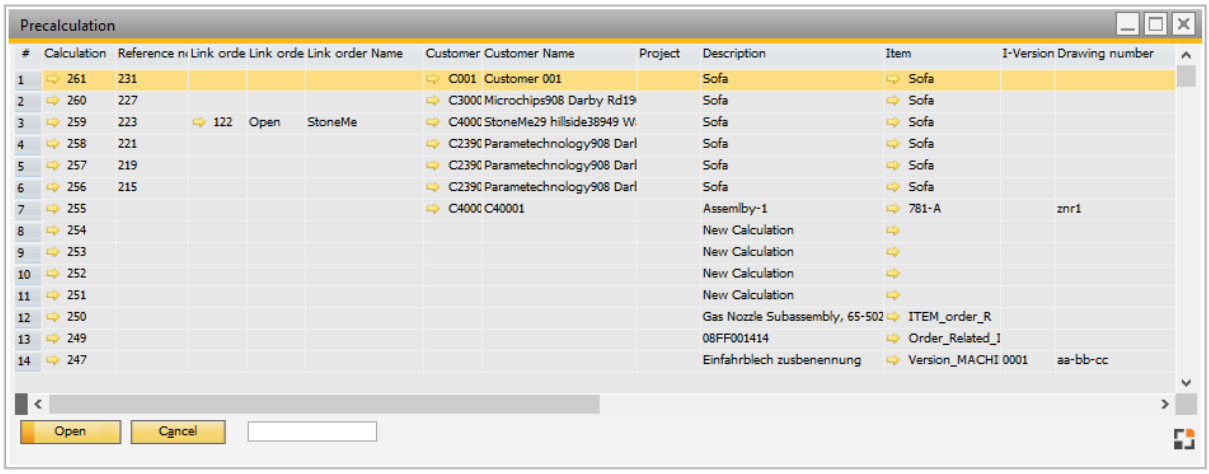
In the Precalculation list you see all created precalculations

See Concept Precalculation

Precalculation: Introduction

Window settings and templates supported. You need access to create Precalculation. It is part of the Basic or the Configurator License.

From this window you can create new calculation, can edit or delete entries.



Window pk_haupt_browse_alle.psr

Field	Meaning
Calculation	Continuous calculation number.
Reference no	Reference number If a calculation is created from a quotation or a sales order it receives a separate reference number which is stored in the quotation/order in this field. The reference number is saved in "Calculation" *(RDR1.U_BEAS_PRECALCNR)* **Note:**

© 2026 Boyum IT Solutions A/S

Field	Meaning
	As long there is a reference (link), the calculation may not be deleted. To remove the link, delete the reference number in sales order or quotation.
Link order Link order Name Link order Status	Information from linked sales order If a sales order is linked to the calculation via reference number, the link is displayed here. Column "Calculation" *(RDR1.U_BEAS_PRECALCNR)* Use the yellow arrow to open the sales order. "Name" is the customer name "Status" the current status of the sales order Fields can be enabled via Window settings. *beas9.1-004-068-000*
Customer	Customer.
Customer Name	Customer Name.
Order	Order number.
Description	Item description.
Item	Item number.
I-Version	Item version.
Drawing number	Drawing number.
Customer Item	Customer's Item number.
Customer Drawing number	Customer's Drawing number.
Info	Free text.
Changed by	Employee, who made changes.
Change date	Date of change.
Change reason	Reason for change.
Schema	Calculation schema.
Project	Project.
Variant	Variant, if available.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Variant Description	Short description of the used variant.
Configuration	Configuration ID.

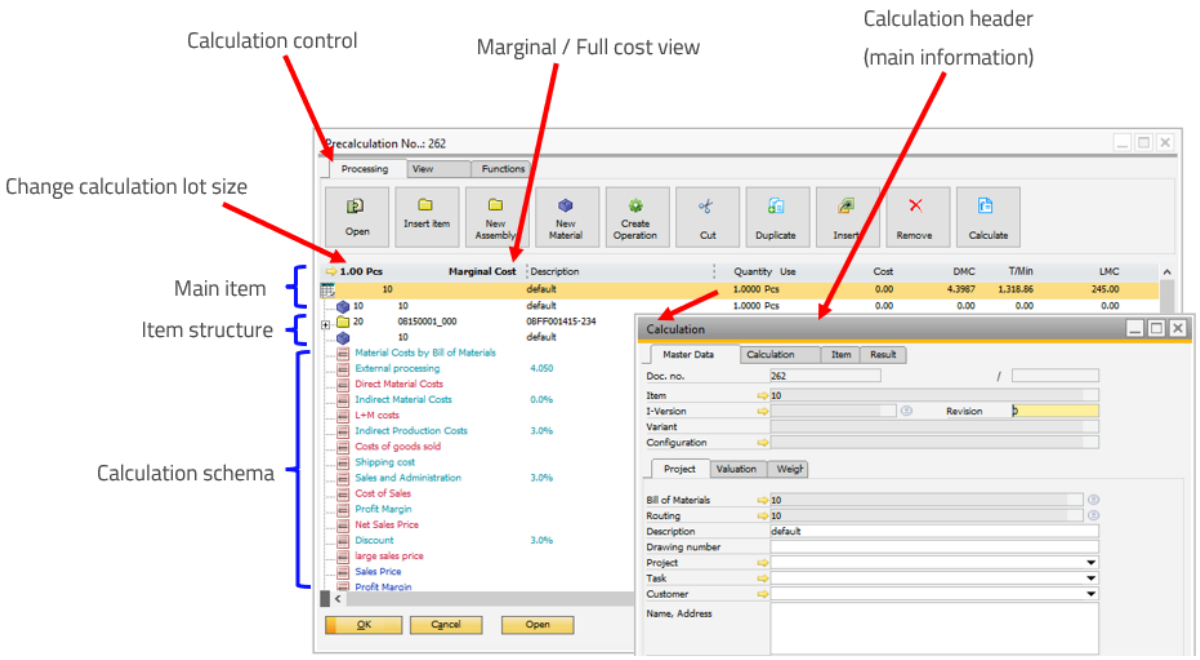
5.2.1 Edit Precalculation

This is the main calculation window, which you can open from different places (***see*** Precalculation)

This is a structure view.

First line is the item, which you want calculate. Behind this line all calculation settings defined. ***See*** Precalculation header

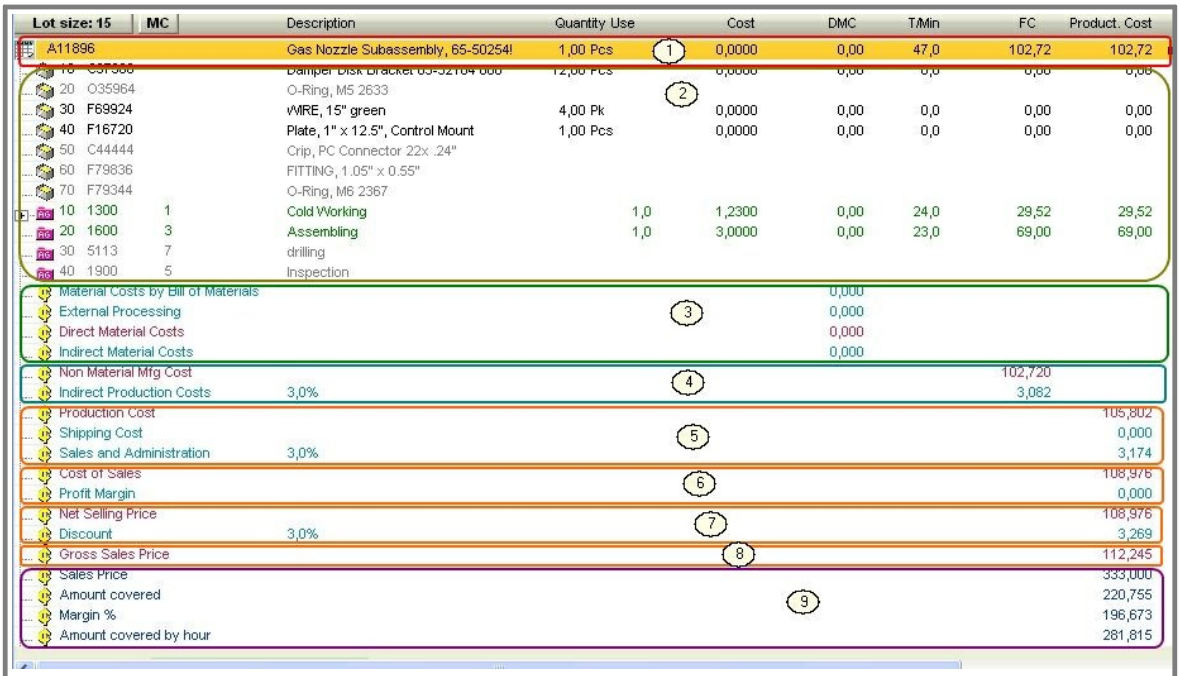
All control elements are available in the Ribbon bar. ***See*** Precalculation Control



Structure of Precalculation

A calculation consists of multiple areas.

© 2026 Boyum IT Solutions A/S



Areas

1	Item to be calculated. The details of the calculation can be edited here. After double click the master data of the item is displayed and the calculation parameters. ***See*: Header**:
2	**Detail area**: BoMs, routing positions, external operations, tool, etc. A BoM position can also be an assembly. In this case, this has no purchase price, as it consists of the sum of its BoM and routing. All material prices and costs from the routing positions are added up here. Surcharges are not considered here. **Material**: Click on a position to open the editing window for material. **Operation sequence**: open a copy of master data to edit. The system does not use count of decimal place defined in unit of measurements. ***See*** Rounding concept Gray lines: Item is not active or the quantity is 0. Note: Beas processes max. 6 decimal places. If the calculated quantity is smaller, the row is displayed as inactive.u ***Example:*** Quantity 0.003 per 100 000 pieces = 0,000 000 03, is rounded to 0 in this case.
	The calculation schema takes effect from this position.

© 2026 Boyum IT Solutions A/S

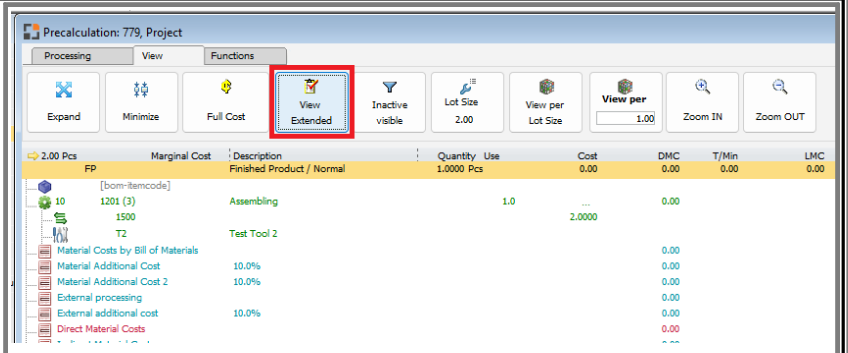
1	Item to be calculated. The details of the calculation can be edited here. After double click the master data of the item is displayed and the calculation parameters. ***See*: Header**:
	For each area, a sum can be created separately and reused in multiple areas (price list creation, assembly valuation, etc.).
3	**Material cost area**: display of the calculated material costs, external operation costs, and material surcharges. The individual sums do not have to match the total material figure from area 2, as individual areas (e.g. material costs without external operation costs, which are added at material costs) can be displayed separately in the calculation schema.
4	**Non Material Mfg Cost**: All production costs or parts thereof (time types, time type groups) are added here. The material costs are not included in the sum.
5	**Production Cost**: The production and material costs are calculated from here. Any further surcharges can be defined here.
6	**Cost of Sales**: The surcharges on the calculated cost of sales are defined from this area. Cost of sales = production costs (material + production + surcharges) + surcharges on the production price.
7	**Net Selling Price**: Further total.
8	**Gross Sales Price**: Further total.
9	**Price from Offer**: The sales price, which can be entered in the header (double-click in area 1). A conversion to Per hour or Sales income is performed here.

If somewhere in the structure three dots are displayed instead of a number, that means several cost rates have been stored.

Columns

Field	Description
Description	Describes the entry (item description, operation description).
Quantity	Quantity/requirement converted Displays required total Quantity in Production UoM per "View Per" setting, calculated by defined Lot size

© 2026 Boyum IT Solutions A/S

Field	Description
	 Count of decimal places: ***See*** rounding concept In Bill of Materials window the Quantity is in Input UoM. The Factor define the conversion to Production UoM, which is used in the Structure view. *Beas 2020.06 and earlier:* This is the Quantity from Material * View per. All other settings are ignored.
Costs	Direct costs (material, resource costs per time unit).
DMC	Total material costs per display unit.
T/Min	Total time requirement in minutes per display unit.
LMC	Total production costs per display unit.
COGS	Sum of material and production costs in detail area.
Drawing Number	Drawing number of the item.
Match Code	Match Code.
DIN	DIN .
Material Group	Material Group.
Raw Material	Raw Material.

Supported functions

The Beas Precalculation supports the following functions:

- Short item versions
- Item version control
- Configurator

© 2026 Boyum IT Solutions A/S

- Variant system
- Tool calculation
- Standard price list, extended and special price list, different valuation methods
- Create work order from Precalculation

Note: You cannot create a new item / item structure from Precalculation.

Customization:
The structure view is not customizable. But you can create own calculation objects

Rounding, Unit of measurement

Rounding in calculation

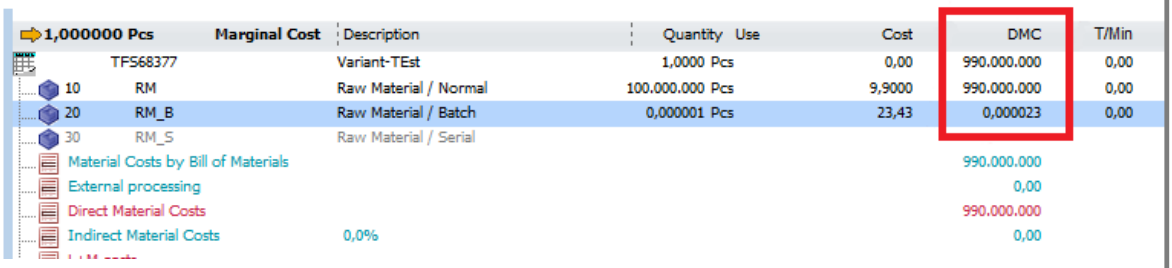
The calculation calculates all values and consistently rounds them to 6 decimal places.

Display

As figures are displayed in different units (e.g. per 1 or per 1000) and the prices that are stored e.g. per 1000 must also be displayable per 1,
the required number of decimal places is calculated for each number separately for the view.
For values under 0.1, a view is displayed with up to 6 decimal places. For values over 1 million, no decimal places are displayed, allowing both small values and large values to be displayed with optimal use of space.

Why:

The Precalculation is a structure view. It is not possible to change the size of fields. The space for every field is limited.
With this concept it is possible to display high and low prices optimally in a limited space.



1,000000 Pcs	Marginal Cost	Description	Quantity Use	Cost	DMC	T/Min
TPS68377		Variant-TEst	1,0000 Pcs	0,00	990.000.000	0,00
10 RM		Raw Material / Normal	100.000.000 Pcs	9,9000	990.000.000	0,00
20 RM_B		Raw Material / Batch	0,000001 Pcs	23,43	0,000023	0,00
30 RM_S		Raw Material / Serial				
Material Costs by Bill of Materials					990.000.000	
External processing					0,00	
Direct Material Costs					990.000.000	
Indirect Material Costs		0,0%			0,00	

Example:

Operation 1, job time: 3 minutes per 10000 pieces, costs: 1 € per minute
Operation 2, job time: 20 hours, costs: 65 € per hour

View setting: 2 digits

© 2026 Boyum IT Solutions A/S

Calculation view per 1 piece:
Op 1: Price = 0,0003 €
Op 2: Price = 1300,00 €

Calculation view per 100 000:
Op 1: Price = 30,00 €
Op 2: Price = 130.000.000 €

In this example you can see that depending on the amount or view the number of decimal places is of high importance.
In the chemical industry, where values well below 1/1000% are used, the correct view is imperative.

Rounding decimals:

> 9,999,999	0 decimal place
> 10	2 decimal places
>= 1	4 decimal places
0 - 1	6 decimal places

- Limitations and Performance

A structure view is not customizable. Column width is only changeable left of Description and Quantity.
Direct excel export is not possible

The calculation is a complete In memory solution. With many additional optimization concept the system can calculate entries in very short time
It support up to 10 000 Lines without performance issue. If you must calculate more items, it's better to deactivate the online calculation.

Important: Beas does not support UoM Price lists in Precalculation.

5.2.1.1 Precalculation Controls

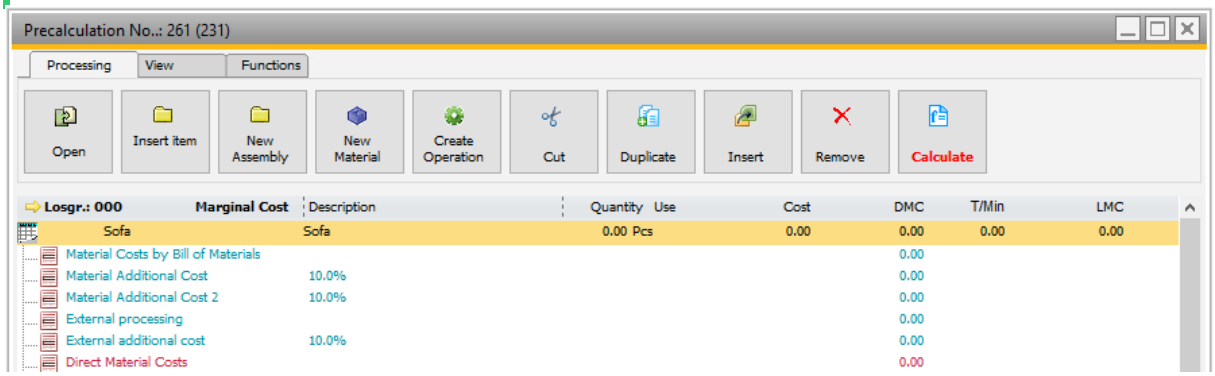
The main functions for precalculation can be called with the button bar in the header.

The following tabs are available:

© 2026 Boyum IT Solutions A/S

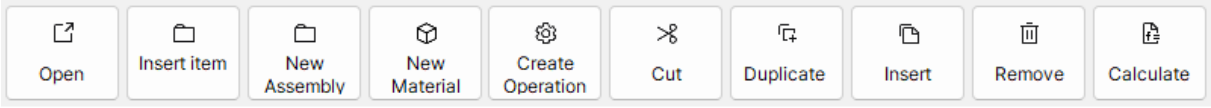
Name	Meaning
Processing	Edit the current calculation (add, change, delete, etc.)
View	View functions (lot size, view by chose quantity, full / marginal costs, etc)
Functions	Valuation, Calculation, Import

PATH: Sales – A/R > Precalculation > **Open** precalculation.



Window pk_struktur.psr

Boyum Style design:



Buttons below:

Button	Description
OK / Update	OK: Save and close the window. Update: If change were made in the calculation, the text changes to "update". Clicking on it, everything is completely recalculated and saved - even if the automatic calculation is turned off. Then the text is reset to "OK". Exception: if the calculation is called from the item master page, this button is hidden.
Cancel	Close window without saving changes
Open	Open current precalculation edit window.

Processing tab

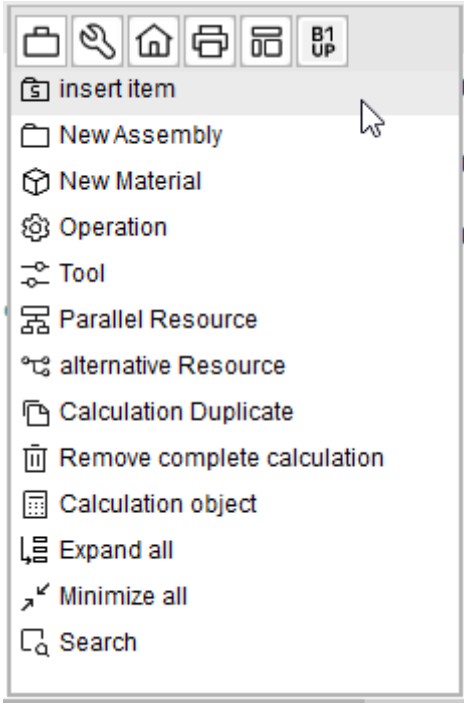
© 2026 Boyum IT Solutions A/S

View tab
Functions tab
Right-click menu > second tab
Buttons in the bottom of the window

5.2.1.1.1 Processing tab

This first tab of the precalculation edit window has the controls for changing BoM, Routing related components of the calculation and remove the calculation itself.

The right-click menu can be called from any BoM or Routing line in the Precalculation structure.



Field/Function	Meaning
Open	Button to edit the currently selected item (corresponds to double-click on an item or push button "open entry") in the structure. Special feature: When editing the first entry, the window for calculation details opens. This option is disabled if the calculation was called from item master.

© 2026 Boyum IT Solutions A/S

Field/Function	Meaning
Insert Item	Opens a item selection window. The items selected (and possibly their substructure) are inserted at the current position.
New assembly	Insert a new assembly, which does not yet exist in the item master.
New material	Insert a new purchase part, which does not yet exist in the item master.
(Create) Operation	Insert new operation for the material.
Tool	Add new tool to the selected operation.
Parallel resource	Add a parallel resource to the selected operation.
Alternative resource	Add an alternative resource to the selected operation.
Cut	Cut the selected position and its substructure. It remains at a new location as long as it is not inserted.
Duplicate	Copy the selected position and its substructure.
Insert	Insert the previously cut or copied position.
Remove	⊟ Delete row, structure or calculation **Cursor on first row** If the cursor is on the first row, the complete calculation is deleted. Deletion is prevented if: - there is a reference (via reference number) to a sales order or to a quotation - calculation is linked to a work order position - the variable "`e_kalkdel`" was set to "N" - `windowevent userdel` returns "return failure" or sets the variable "value" to -1 Before deletion there is a double security query also in case of master/slave relation. Alternative, parallel resources and tools are removed along with removing an operation. **Cursor on a different row:**

© 2026 Boyum IT Solutions A/S

Field/Function	Meaning
	Current row or its substructure is deleted.
Remove complete calculation	Delete the entire calculation structure.
Calculate	Recalculate the entire calculation.
Calculation Object	Opens the Calculation objects list of the actual Calculation Schema. Click **Choose** after selecting an object to add it to the precalculation structure. *Window pk_typen_search.psr*
Expand/Minimize all	Expand/Minimize the complete Precalculation structure
Search	Open the Search query window

See

View tab

Functions tab

Right-click menu: 2nd tab

Right-click menu: 3rd tab

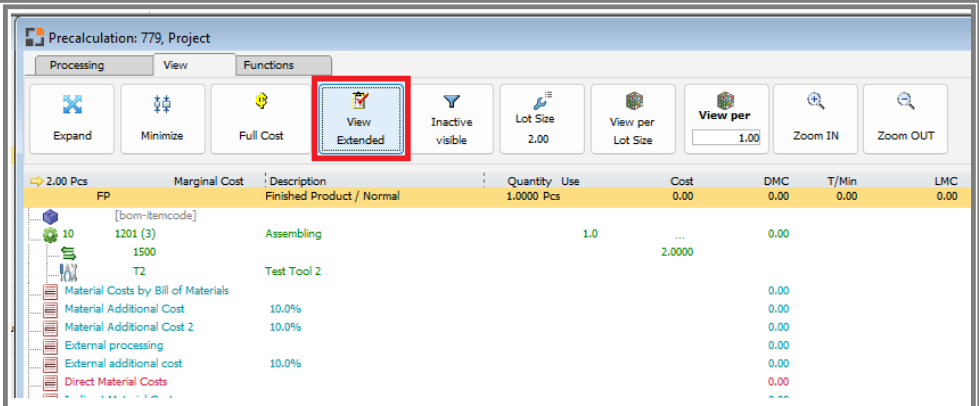
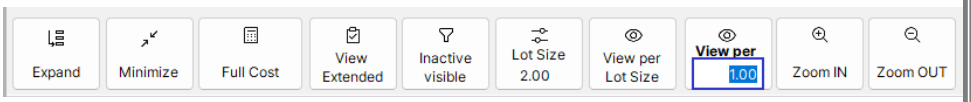
5.2.1.1.2 View tab

This tab has the controls for the Precalculation view.

Field descriptions

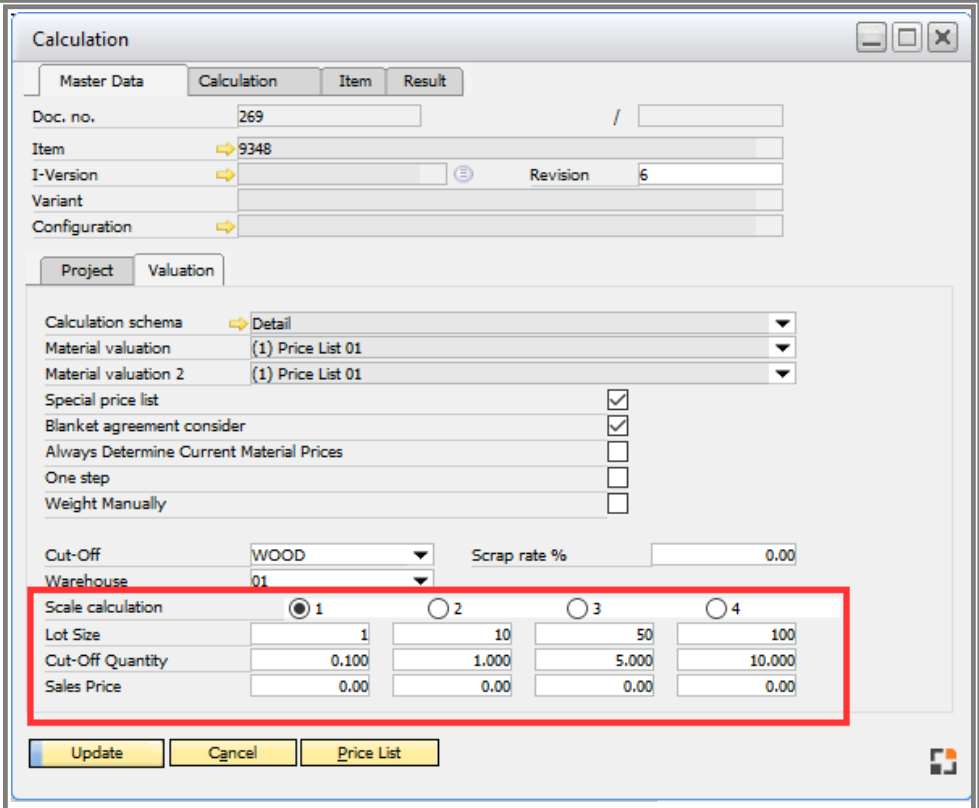
Field	Meaning
Expand	Expand structure
Minimize	Minimize structure
View Default/Extended	Toggle between standard and extended view. Function is only available if "calculation schema per assembly" has been activated in the calculation schema. The default view displays standard calculation without showing additional costs. The extended view displays the results that were deposited in the calculation schema in the "View" tab. For more information ***see*** Pre-calculation Extended view.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	 *Window pk_struktur.psr* **Boyum Style design:**  Calculation per assembly webinar.
Full / Marginal Costs	Toggle between full and marginal costs. Only available in Default view.
Lot size	View / Calculate at lot size (toggle between 4 different lot sizes).
Inactive visible/invisible	Show/hide inactive calculation objects
View per Lot Size	Switch between max. 4 defined lot size and define the View A calculation can be made simultaneously in a maximum of 4 lot sizes. The default lot size is the calculation lot size as per the item master - Calculation. If the calculation is called up from a quotation or an order, the quantity stored there is the lot size. For further information on lot sizes ***see*** Lot size - concept. This is the maximum individual quantity that can be produced without interruption.

© 2026 Boyum IT Solutions A/S

Field	Meaning



View per

With "View per" you can define, for which count you want to see the price.

Example 1:

You must create a quotation for 1, 10, 50 and 100 and need the price per 1.

1. Define Lot size 1,10, 50 and 100
2. Define View per to 1

Now you can display the cost per 1 for different quantities.

Example 2:

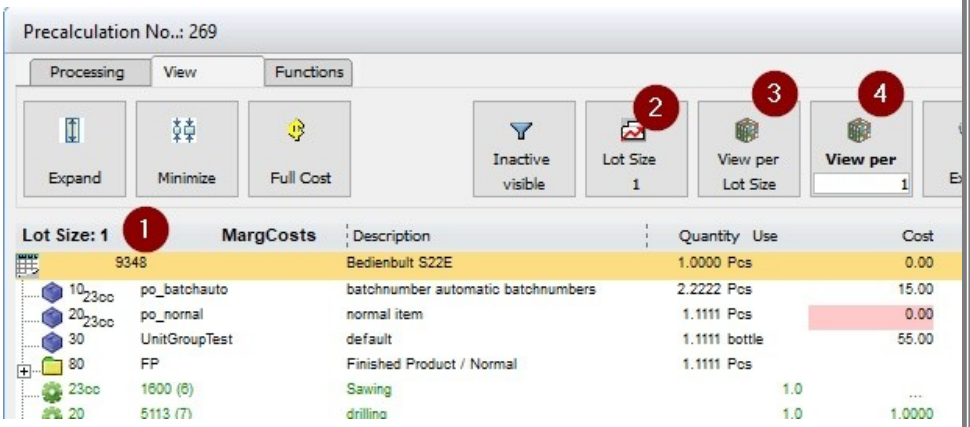
You have a max. lot size for 100 Pcs and must create a quotation for 1000 Pcs and you need the total price for 1000

1. Define Lot size 100
2. Define View per to 1000

Now you can the the total costs for 1000

In this case the system multiplicity the setup times, fix times and fix surcharges with 10, because you must produce this product 10 times to deliver 1000 Pcs.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	Switching between lot sizes and view Change Lot size - in calculation view on text "Lotsize" (1) - in tab "view" - Lotsize (2) Change View In tab "view" click on - (3) "View per Lot size": display always total costs by lot size - (4) "View per x": you can insert the count of Pcs, for which you see the price, example "1" means: Display the price per Pcs.  If the subassembly has a lot size, too, this will be considered under following conditions:
Zoom IN / OUT	Zoom into / out of the view by magnifying or diminishing the screen content.

Functions

Field/Function	Meaning
Open	Button to edit the currently selected item (corresponds to double-click on an item or push button "open entry") in the structure. Special feature: When editing the first entry, the window for calculation details opens. This option is disabled if the calculation was called from item master.

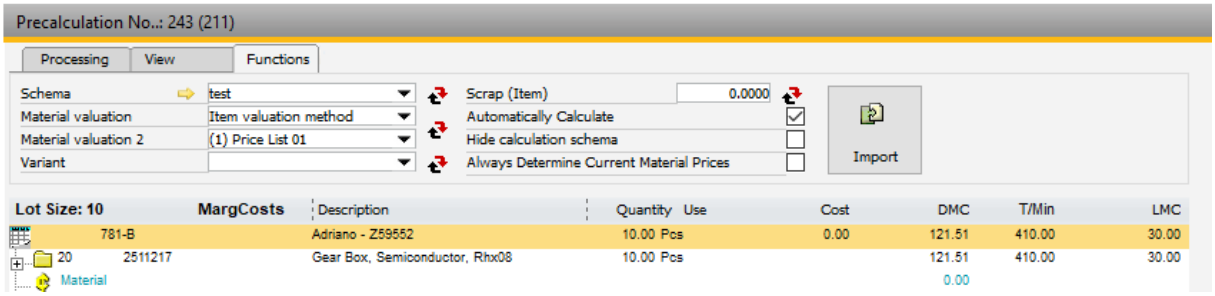
© 2026 Boyum IT Solutions A/S

Field/Function	Meaning
Update	Save changes made in the precalculation structure.
Insert Item	Opens a item selection window. The items selected (and possibly their substructure) are inserted at the current position.
New assembly	Insert a new assembly, which does not yet exist in the item master.
New material	Insert a new purchase part, which does not yet exist in the item master.
Operation	Insert new operation for the material.
Tool	Add new tool to the selected operation.
Parallel resource	Add a parallel resource to the selected operation.
Alternative resource	Add an alternative resource to the selected operation.
Cut	Cut the selected position and its substructure. It will remain as long as it is not inserted at a new location.
Duplicate	Copy the selected position and its substructure.
Insert	Insert the previously cut or copied position.
Remove	Delete row, structure or calculation **Cursor on first row** If the cursor is on the first row, the complete calculation is deleted. Deletion is prevented if: - there is a reference (via reference number) to a sales order or to a quotation - calculation is linked to a work order position - the variable "`e_kalkdel`" was set to "N" - `windowevent userdel` returns "return failure" or sets the variable "value" to -1 Before deletion there is a double security query also in case of master/slave relation. Alternative, parallel resources and tools are removed along with removing an operation.

© 2026 Boyum IT Solutions A/S

Field/Function	Meaning
	Cursor on a different row: Current row or its substructure is deleted.
Remove complete calculation	Delete the entire calculation structure.
Calculate	Recalculate the entire calculation.
Calculation Object	Opens the Calculation objects list of the actual Calculation Schema. Click **Choose** after selecting an object to add it to the precalculation structure. *Window pk_typen_search.psr*
Expand/Minimize all	Expand/minimize the complete Precalculation structure
Search	Open the Search query window

5.2.1.1.3 Functions tab



Field descriptions

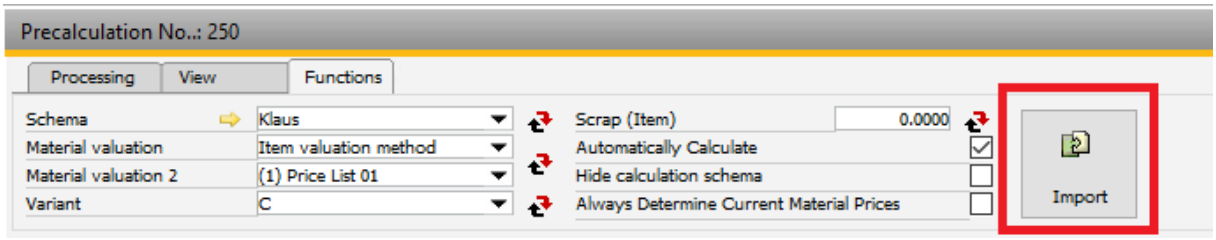
Field	Meaning
Schema	Change or update the calculation schema. Double-click the yellow arrow to edit the calculation schema.
Material valuation	Change or update valuation. Use the "replacement" icon . to read in prices new. All further settings are considered as Material valuation 2. ***See*** Precalculation – Material – Purchase price **Note**: Beas only supports price list with numbers 1–99. Price lists with internal id > 99 are not supported.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Material valuation 2	Second valuation method in case the first one does not return a price. If there is still no price determined, the row is marked red and a warning message is issued. ***See*** Configuration wizard – Precalculation *beas9.0-000-003-010*
Variant	Change variant. If the Configuration Wizard – Master Data – Item – Variant **per item** is disabled and below this setting under "Variant" a calculation schema or alternative pricing is stored, then changing the variant in the calculation, the calculation schema and valuation may also be changed.
Scrap (Item)	There you can change the scrap for all items.
Automatically calculate	If this option is disabled, no automatic calculation will be performed when something is changed in the calculation. In this case, the re-calculation can be started manually. (**Tab Edit > button Calculate**)
Hide calculation schema	If this check box is selected, the calculation schema is hidden.
Always determine current material price	Current determination purchase price. If active, the material price and the price for external service are always determined using the current price list. The setting is applied from calculation schema. Note: The current determination of the prices takes a lot of time. For this reason, the calculation does not start automatically. For this you have to click the button "Calculate" after a change. Precalculations use actual price ***See*** Calculation schema

Upper Buttons

© 2026 Boyum IT Solutions A/S



Boyum Style "Import" button icon:

Button	Function

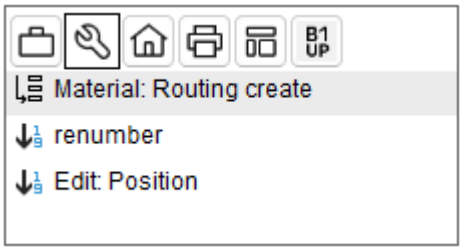
Import	Import BoM from text file
	Imports BoM and routing positions from a simple text file.
	Setup of the import file:
	
	Corresponds a CSV format
	Column separator:Char 9 (Tab)
	Row separator: Char 13+ Char 10 (CrLf)
	
	The columns are independent from the line types. The line type will be defined in the first column. The line type "BoM position" is used if no line type is stored.
	
	BoM:
	`Linetyp = B <char 9> ItemCode <char 9> Quantity`
	Or
	`ItemCode <char 9> Quantity`
	
	Routing position
	`Linetyp = O <char 9> RoutingId <char 9> SetupTime <char 9> WorkingTime`
	
	Click to select a text file in following format: Item (Tab) Quantity (linefeed) Item (Tab) Quantity.
	(Tab) = Ascii-character "9" (linefeed) = Ascii-character 13 and 10.

© 2026 Boyum IT Solutions A/S

Button	Function
	Note: BoM items are inserted to the current position. If the cursor is on an assembly, the BoM is inserted to that assembly. If the cursor is on a BoM item, imported items are inserted before that position. After import, the complete calculation BoM is renumbered and prices are read in again according to the set up pricing. If an assembly is stored in the import file, the assembly is broken down during import. If an item was not created before it is imported nevertheless.

5.2.1.1.4 Right-click menu: 2nd tab

Right-click menu: 2nd tab

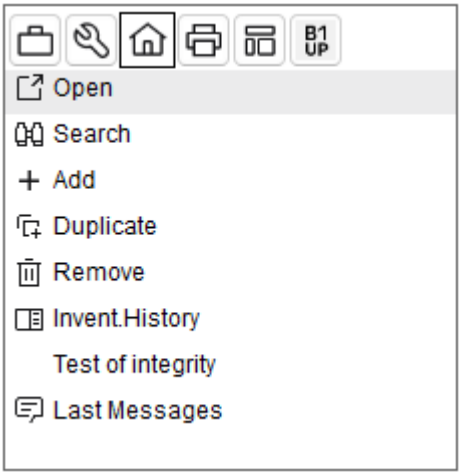


Function	Description
Material: Routing create	Create routing for the current BoM For this a new window opens. For each material position, multiple operations can be defined. The existing routings are removed and the new ones are inserted after the selection.
Renumber	Routings and BoM's are renumbered.
Edit position	Activate / deactivate the direct input of position number in structure view Alternatively: Double click on the position number Hereby, you can assign the position number in the structure directly. These are alpha numeric and do not determine the order. The order can be changed via Drag&Drop. Precalculation Position Number

© 2026 Boyum IT Solutions A/S

5.2.1.1.5 Right-click menu: 3rd tab

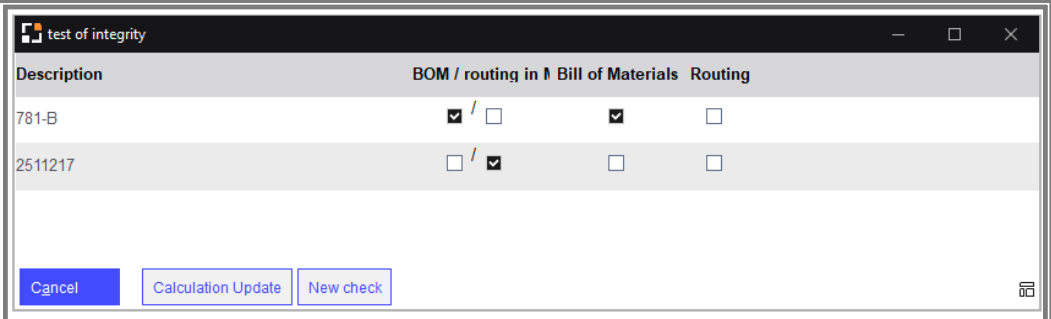
Right-click menu: 3rd tab



Function	Description
Open	Open the current entry for editing. Select the first line for editing details.
Search	Full text search over the entire calculation.
Add	Insert New Object - depending on the current position. **Note:** In the surcharge area an object can only be inserted if it was enabled by the current calculation schema.If the first row selected, this button has no function.
Duplicate	Copy the selected position and its substructure.
Invent.History	Opens the inventory history for the selected item.
Test of integrity	The opening window displays differences between master data definition and calculation object. **Important:** Validation is only executed when precalculation does not have a defined BoM list or Routing. In this case, the system checks the master data of main item to verify if the master data has a BoM or Routing list definition.

© 2026 Boyum IT Solutions A/S

Function	Description



Window pk_vollst_browse.psr

Field Descriptions

Field / Function	Description
BoM / Routing in master data	Bill of Materials and Routing defined the Item Master Data
Bill of materials	Bill of Materials defined in Precalculation
Routing	Routing defined in Precalculation
Calculation Update	Refresh calculation information in the calculation screen.
New check	Reload information on BoM/Routing integrity in the current screen.

5.2.1.2 Precalculation Header

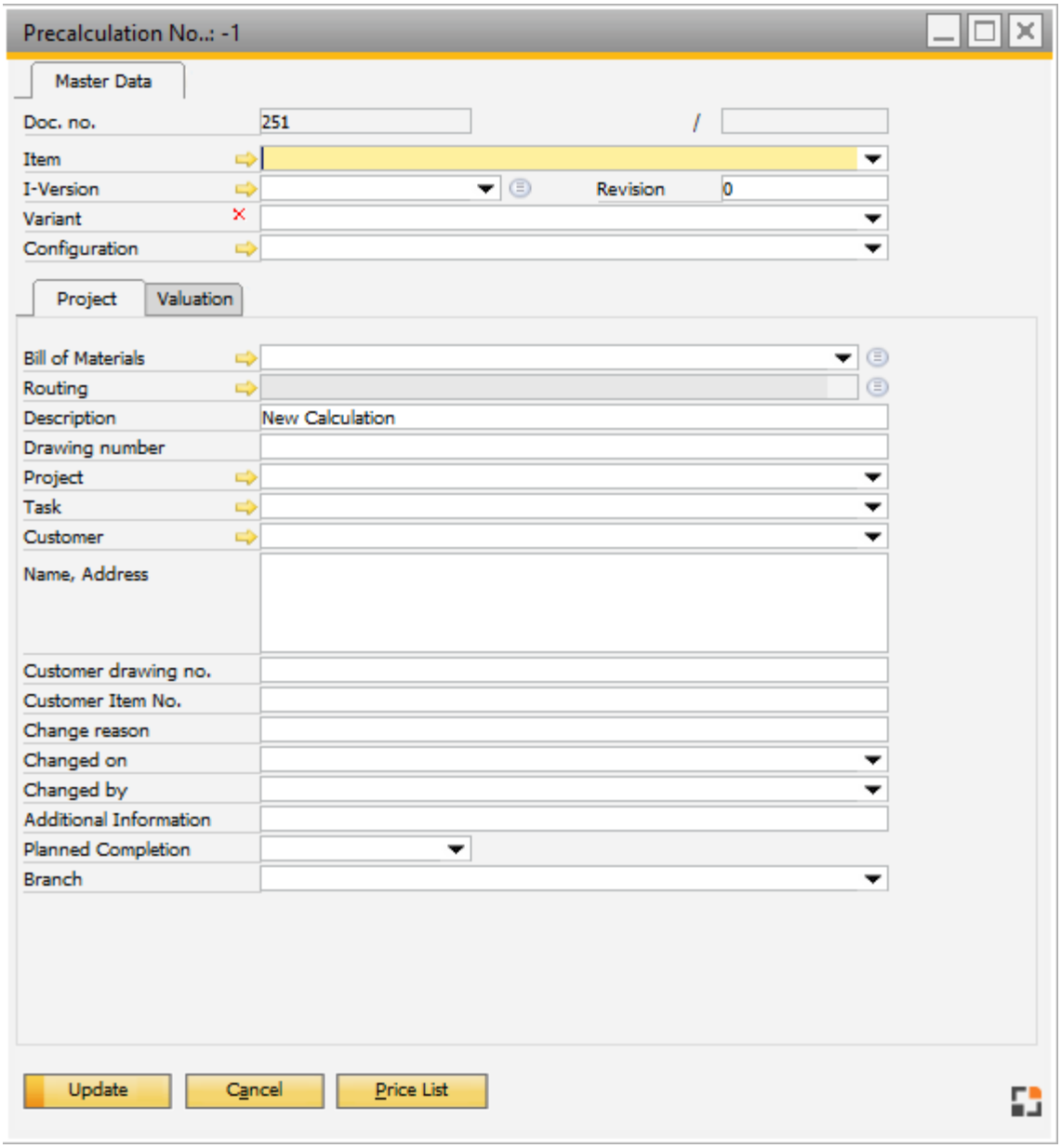
All properties of a Precalculation can be defined in the header. The Item field is mandatory.

PATH: Sales – A/R > Precalculation > **Open** precalculation > **Open** calculation.

This window opens from various locations:

- if you create a new calculation from a sales order
- if you create a new calculation from a sales–precalculation
- if you make a double-click on the first row in the precalculation

© 2026 Boyum IT Solutions A/S



Window pk_haupt_edit.psr

Master data header

Feld	Description
Doc.No. (Ref.No)	Calculation number and quotation or order allocation number. The first number is a sequential, unique number which is automatically assigned. The second number is only assigned if the calculation was created from a quotation or order. This number is also entered in the quotation or order.
Item	Item number.

© 2026 Boyum IT Solutions A/S

I-Version	Item – Version number Item version number as per version number determination, if item version control was enabled. The following information is determined based on version: • BoM • Routing • Description • Drawing number ***See*** Item master – I-Version
Revision	Revision number of the calculation (text only).
Variant	Item variant.
Configuration	Link to a configuration.
Tab Project	Project definitions
Tab Valuation	Lot size, Valuation, Tools
Tab Weight	Values regarding weight: net weight, gross weight, UoM and Factor.

Additional header tabs

Tab	Description
Calculation	Opens more tabs with display fields: **Scale prices**: Required time, material and manufacturing costs, contribution margin, and so on per scale. ***See*** Material scale prices **Cost Element:** Time types with marginal and full costs, and surcharges. ***See*** cost elements. **Cost element:** view stored cost element groups.
Item	Opens a copy of item master data, which can be changed for this calculation.
Result	View the results of all calculation objects.

Price list: The button opens the price list window of the selected item in the calculation.

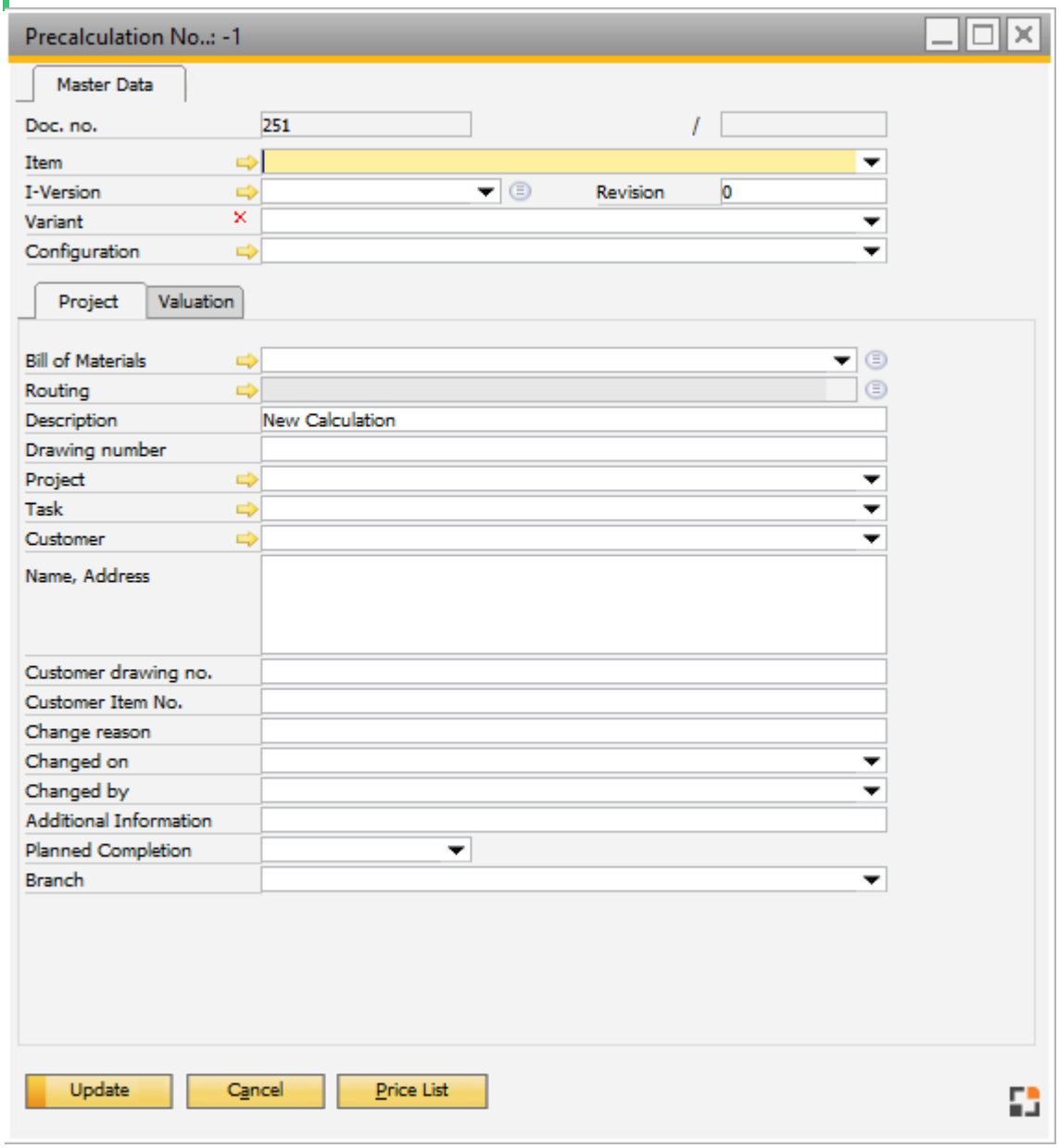
Window artikel_edit_preisliste.psr

© 2026 Boyum IT Solutions A/S

5.2.1.2.1 Project

Insert project related information for the Precalculation.

PATH: Sales – A/R > Precalculation > **Open** precalculation > **Open** calculation.



Project tab

Field	Description
Bill of Materials	The BoM to be used for the breakdown

© 2026 Boyum IT Solutions A/S

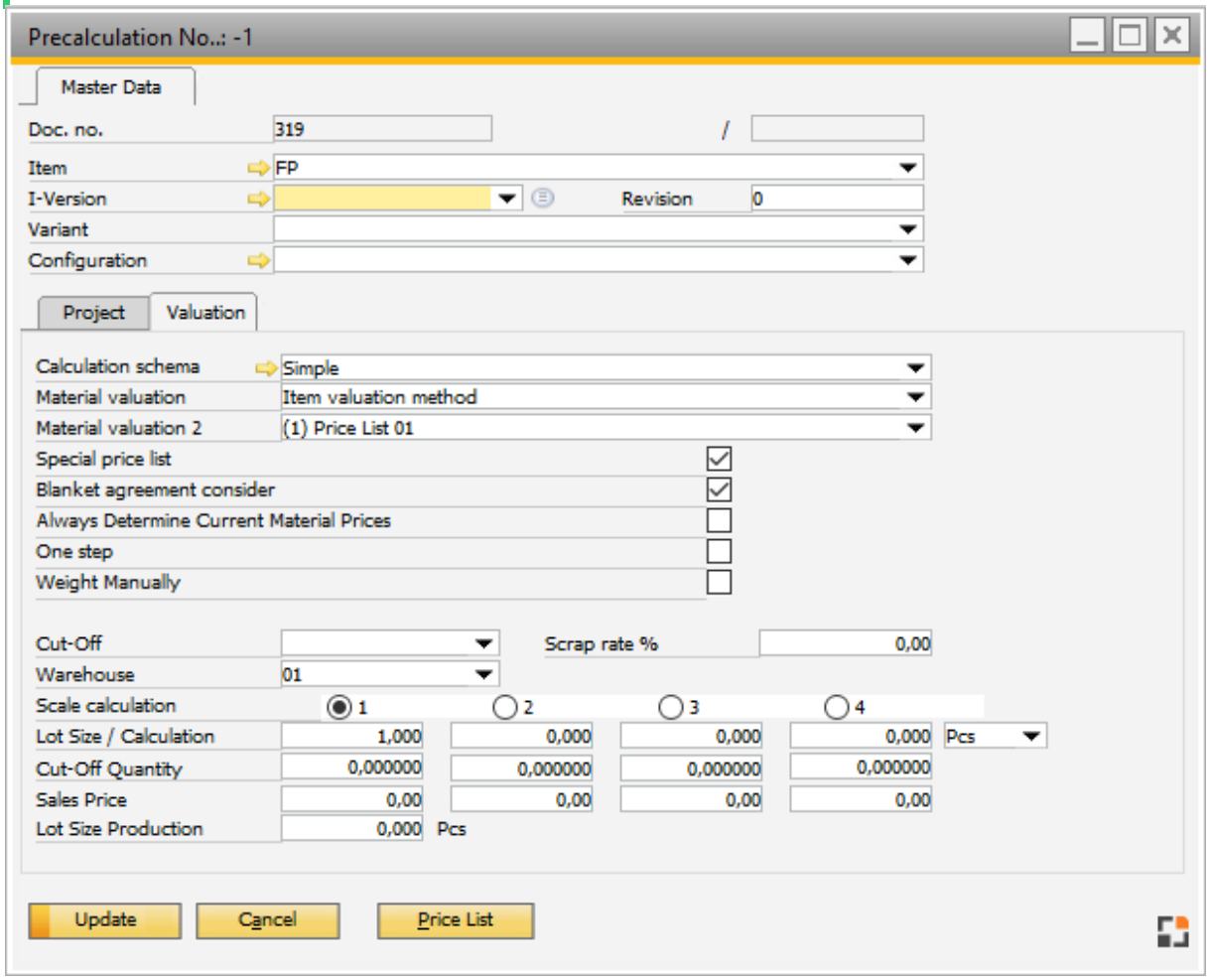
	The BoM to be used for the breakdown of the assembly can be selected in this field. It is stored in the item or item version. This fields is only visible if Item version control was activated. This field can only be edited when a new calculation is being created.
Routing	Routing to be used for breakdown The Routing to be used for breakdown of the assembly can be selected in this field. It is stored in the item or item version. This fields is only visible if Item version control was activated. This field can be edited only when creating a new calculation and and the Routing directly selectable option is enabled.
Description	Item description or description of the item version.
Drawing number	Item drawing number or drawing number of the item version.
Project	Link to a project.
Task	Link to a task.
Revision	Revision number.
Customer	Drop-down field for a customer number.
Name, Address	Display or input field from customer master data.
Description	Item description.
Drawing Number	Drawing number from master data. This field is editable
Customer drawing number	Input field for text.
Customer item	Input field for text.
Change Reason	Input field for text.
Changed on	Date selection drop-down.
Changed by	Drop-down field.
Additional Information	Input field.
Planned completion	Date selection drop-down.
Branch	Assigned branch (only with activated multi-branch solution)

5.2.1.2.2 Valuation

Insert valuation related information for the Precalculation

© 2026 Boyum IT Solutions A/S

PATH: Sales – A/R > Precalculation > **Open** precalculation > **Open** calculation > (lower) Valuation tab.



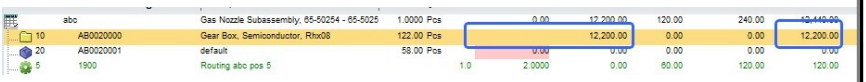
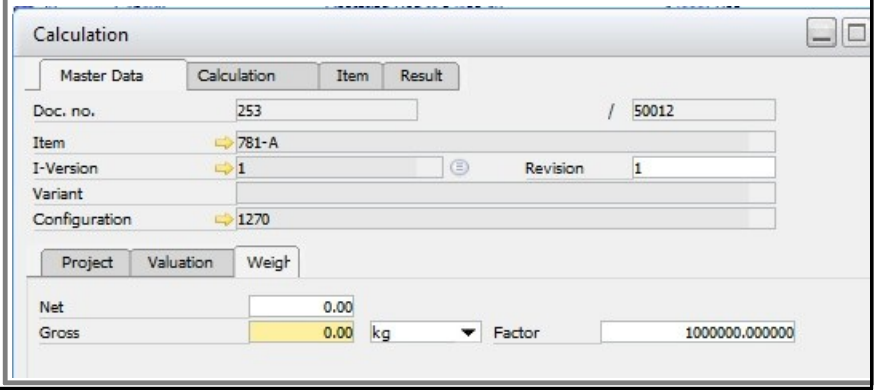
Window pk_haupt_edit.psr

Field	Description
(Calculation) Schema	The calculation schema to be used. The default schema is the calculation schema defined in the item master data, then, if no schema is set, the Configuration Wizard setting is used. **Configuration Wizard > Calculation > Precalculation** If no schema is specified, the default schema Std is used. The calculation schema specifies how the costs are summarized and which surcharges should be added. For more information ***see*** Costing objects.
Material valuation	⊟ Determine material valuation

© 2026 Boyum IT Solutions A/S

	Determines the material valuation used. The default schema is defined in the Configuration Wizard. ***See*** Configuration wizard – Material pricing. This can only be set up when creating a new calculation. Subsequent change is possible in the main Pre-caluation window > "Functions" tab. Does not affect valuation for external operations. These are set up in the Configuration Wizard. For concept pricing, ***see*** Precalculation material purchase price.
Special price lists	Consider special price lists? For a new calculation the setting from the configuration wizard applies and can be changed for each calculation separately. Note: The setting does not affect valuation for external operations. These are set up in the Configuration Wizard. ***See*** Configuration wizard – Special price lists Precalculation – Material – Purchase price
Consider blanket agreements	Determines whether blanket agreements are taken into consideration.
Always determine current price of material	Determines, whether the pricing of material is always determined according to the current price list. The settings are read from the calculation schema. ***See*** Calculation schema
One Step	Activates One Step calculation mode If activated, a single-level calculation is performed, that is, sub-assemblies are not further broken down. *Off*: Calculates the assembly and all sub-assemblies. The complete calculation is expanded.

© 2026 Boyum IT Solutions A/S

	On The calculation expands only the top level of the item structure and calculates sub-assemblies as materials.  **Attention**: This option is only changeable when a new calculation is created and cannot be modified in existing calculations. *beas 9.3 PL 1*
Weight manually	Enables to enter the weight manually, otherwise it is calculated automatically If activated, the weight can be entered manually as net and gross in the Weight tab. If disabled, the calculation uses the weight from the item master data. 
Cut-off	Cut-off flag, copied from the item master. A different flag can also be selected. For more information on scrap, ***See*** Scrap. If the scrap is changed, the scrap quantities are automatically recalculated. The scrap value is only considered for the assembly to be calculated. For sub-assemblies, their scrap value is not considered as this is lot size-dependent on the sub-assembly, which is not always specified.

© 2026 Boyum IT Solutions A/S

Scrap %	Scrap factor stored in the item master. If this is changed, the scrap quantities are automatically recalculated.
Warehouse	If Price per warehouse is enabled during initialization, the warehouse indicated here is used as default, as long as no withdrawal warehouse is defined in the BoM. ***See*** Precalculation – Material – Purchase price
Calculation with scales	Up to 4 different lot sizes can be specified. Specify the lot size the result is to be displayed for. Calculations are always performed with all lot sizes in the background.
Lot size / Calculation1...4	Up to 4 lot sizes can be stored that costs, material and time is calculated for The first lot size corresponds to the calculation lot size stored in the item master data. It is possible to define Lot size in Production UoM or Inventory UoM. If you change to "Inventory UoM", the system automatically calculates the lot size based on Production UoM. You can switch between both units every time without losing Lot size Information. ***See*** Concept Lot size
Cut-off quantity 1...4	For every lot size, the scrap quantity dependent on quantity, is calculated automatically using the scrap flag and scrap factor. The scrap quantity does not affect the quantity to be calculated. It only affects the material requirement and resource time, and therefore the costs. Scrap quantities are only considered for in-house production. They are ignored for purchased items.
Sales price 1...4	A sales price can be entered for every lot size. This is required for the breakeven analysis. It is also possible to input the sales prices in the Calculation tab, as the calculated sales price is already displayed here.
Lot Size Production	Define the Lot size Production for main level. ***See*** Concept Lot size

© 2026 Boyum IT Solutions A/S

5.2.1.3 Bill of Materials

It is possible to add new materials to a precalculation or edit existing entries.

PATH: Sales – A/R > Precalculation > "**Open**" precalculation > "Processing" tab
> "New Material" to create a new entry for material, which current not exists

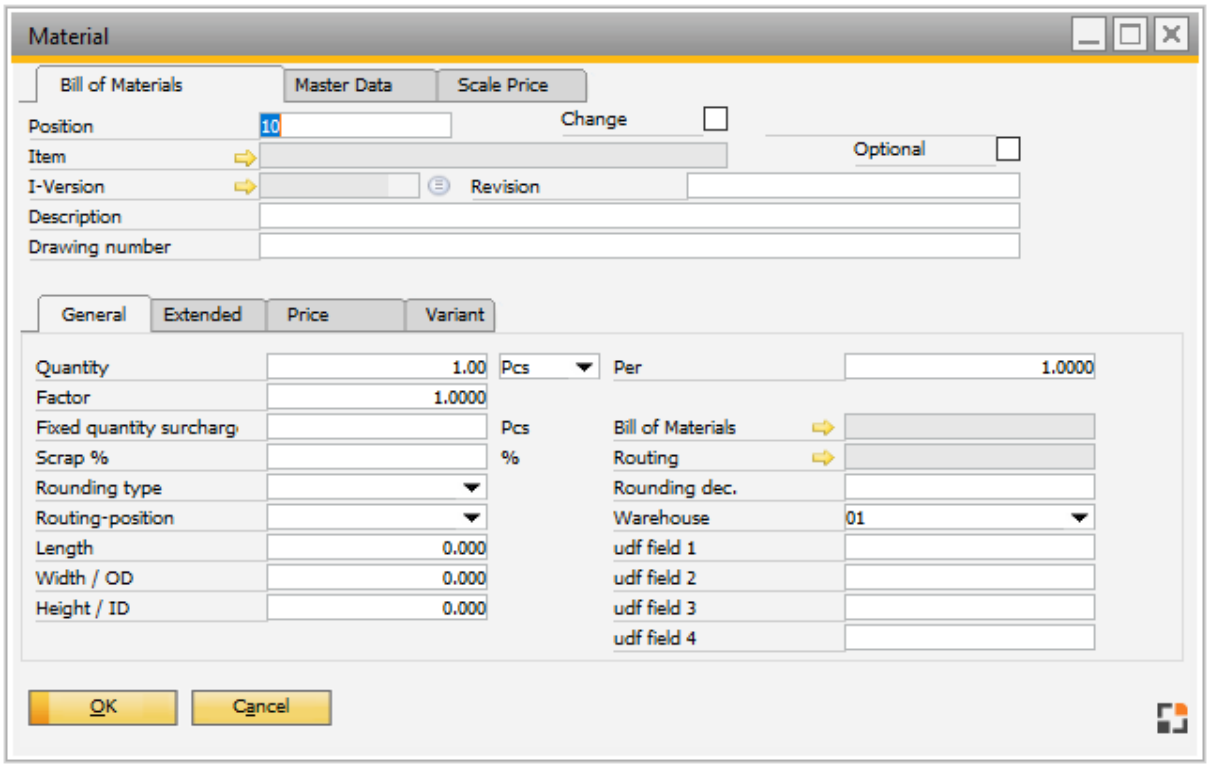
or > "New Assembly" to create a new entry for assembly, which current not exists

or > "Insert Item" to insert Material or Assembly, which currently exists

or > double-click on a material line

or > **Open / Add** new entry button

Bill of Materials tab



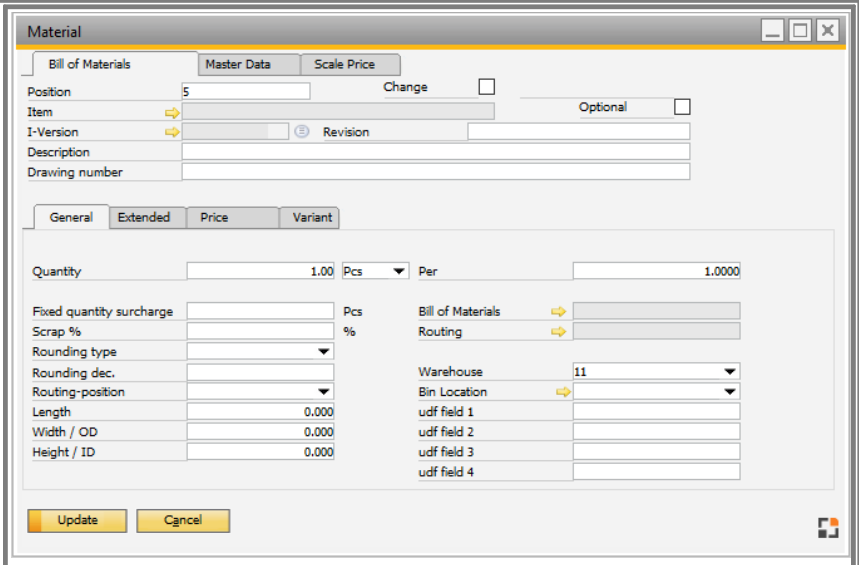
Window pk_material.psr

Tabs

Tab	Description
Bill of Materials	⊟ General information

© 2026 Boyum IT Solutions A/S

Tab	Description



Window pk_material.psr

Field Descriptions

Field	Description
Position	***See*** Position number. This is a text information and does not define the order.
Change	Can be enabled manually. It shows that changes have been made. In structure view, the entry is then marked with a green dot.
Item	***See*** Item number. Not changeable. In case of a new item, the field is empty. The item is created only when the work order is created. In other cases, this is the copy of the previously selected item. Change in master data tab are not written back to the original data set.
I-Version	Item Version number. ***See*** Item Version.
Optional	This is an optional entry. It is displayed, but not summarized in the end sum.
Revision	Revision number.
Description	***See*** Item description.
Drawing	***See*** Drawing number.

© 2026 Boyum IT Solutions A/S

Tab	Description

number	
Warehouse	Code of the Warehouse where the item is stored.
Bin Location	Bin location number - available for bin-managed warehouses. Only valid "Bin Locations" for the selected warehouse are allowed. After changing the warehouse, the bin location content is set to empty in this field. **Work Order BoM and Precalculation:** A work order created from an Item, or Precalculation copies this field automatically for the BoM. If there is not enough stock to pre-assign quantities from this, pre-defined bin location, Beas continues to pre-assign them from further bin locations based on the sorting rules.

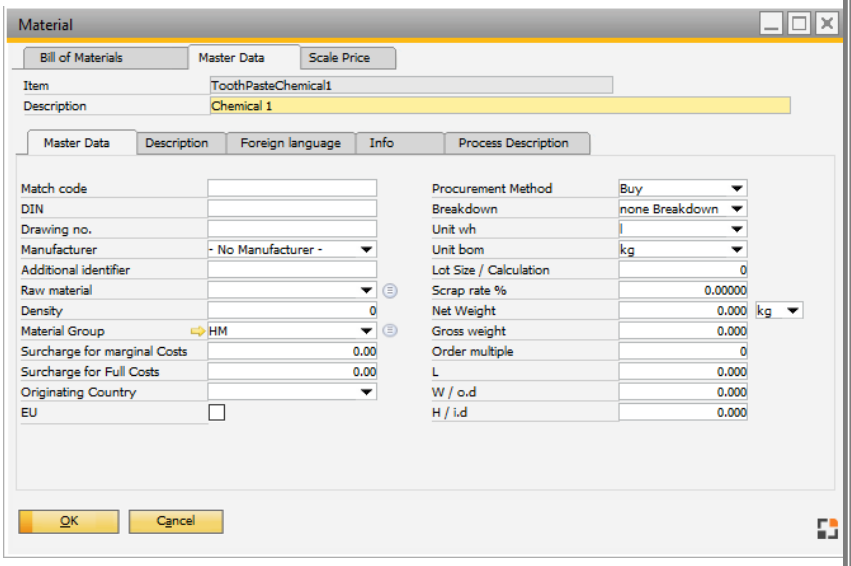
Tabs

Tab	Description
General	Main BoM Information. ***See*** Bill of Materials General
Extended	Extended BoM information. ***See*** Bill of Materials Extended
Price	Price calculation. ***See*** Bill of Materials Price
Variant	Variant information. ***See*** Bill of Materials Variant

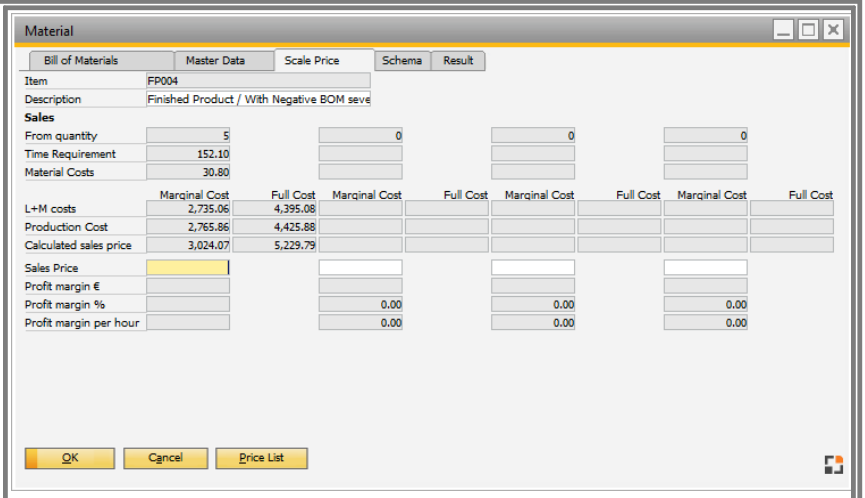
Functions:

Function	Description
Invent.history	Opens the Inventory history window for the item.
Cross reference	Opens the Cross Reference for item window.

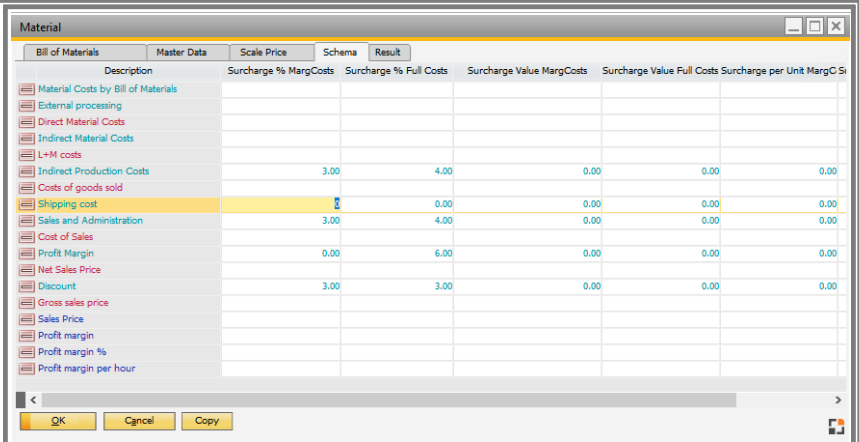
© 2026 Boyum IT Solutions A/S

Tab	Description
Master Data	Item Master Data from this Bill of Material position A copy of operation master data is displayed. Any changes made here only affect the calculation.  *pk_material_s2.psr* *back to* Precalculation Material
Sales Price	Price calculation (Result for sub assembly) Display of scale prices. The selected item is displayed. Only the item designation can be changed here. Below the deposited scale prices are displayed.

© 2026 Boyum IT Solutions A/S

Tab	Description
	 *pk_material_staffel.psr* Note: Only visible if - "Calculation schema per assembly" was activated in the currently used Calculation schema. - The current Bill of Materials position is an assembly. The system displays the result in the same unit as defined in Lot size. Display calculated Costs based on the current schema for all defined lot sizes. It is also possible to insert the sales price for this assembly lot size. *back to* Precalculation Material
Schema	Schema definition for current Bill of Material position In this window you can change Surcharge for every Schema object related to the assembly from the chosen Bill of Materials position.

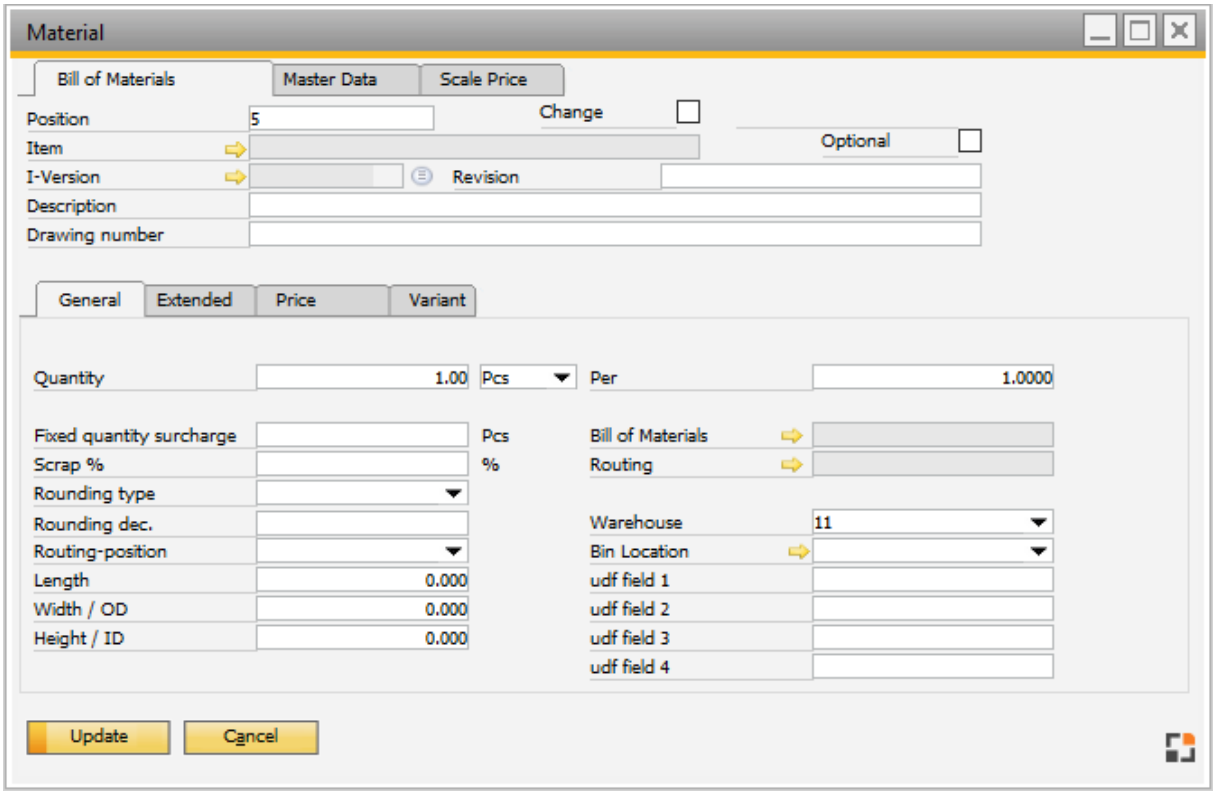
© 2026 Boyum IT Solutions A/S

Tab	Description
	 *pk_material_schema.psr* Note: Only visible if - "Calculation schema per assembly" was activated in the currently used Calculation schema. - The current Bill of Materials position is an assembly.
Result	Result by Schema for current Bill of Material position *pk_material_schema_result.psr*

© 2026 Boyum IT Solutions A/S

Tab	Description
	Note: Only visible if - "Calculation schema per assembly" was activated in the currently used Calculation schema. - The current Bill of Materials position is an assembly.

5.2.1.3.1 Bill of Materials Data



Window pk_material.psr

Field Descriptions

Field	Description
Position	***See*** Position number. This is a text information and does not define the order.
Change	Can be enabled manually. It shows that changes have been made. In structure view, the entry is then marked with a green dot.
Item	***See*** Item number. Not changeable. In case of a new item, the field is empty. The item is created only when the work order is created.

© 2026 Boyum IT Solutions A/S

	In other cases, this is the copy of the previously selected item. Change in master data tab are not written back to the original data set.
I-Version	Item Version number. ***See*** Item Version.
Optional	This is an optional entry. It is displayed, but not summarized in the end sum.
Revision	Revision number.
Description	***See*** Item description.
Drawing number	***See*** Drawing number.
Warehouse	Code of the Warehouse where the item is stored.
Bin Location	Bin location number - available for bin-managed warehouses. Only valid "Bin Locations" for the selected warehouse are allowed. After changing the warehouse, the bin location content is set to empty in this field. **Work Order BoM and Precalculation:** A work order created from an Item, or Precalculation copies this field automatically for the BoM. If there is not enough stock to pre-assign quantities from this, pre-defined bin location, Beas continues to pre-assign them from further bin locations based on the sorting rules.

Tabs

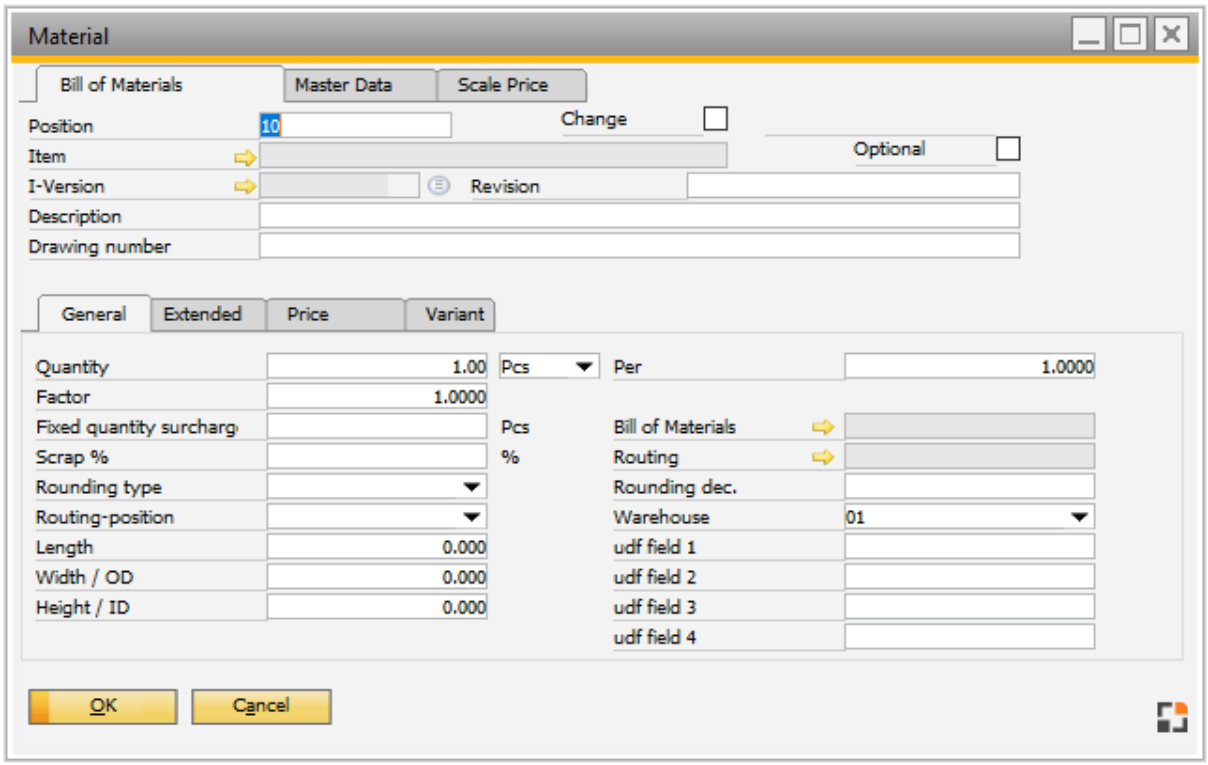
Tab	Description
General	Main BoM Information. ***See*** Bill of Materials General
Extended	Extended BoM information. ***See*** Bill of Materials Extended
Price	Price calculation. ***See*** Bill of Materials Price
Variant	Variant information. ***See*** Bill of Materials Variant

Functions:

Function	Description
Invent.history	Opens the Inventory history window for the item.
Cross reference	Opens the Cross Reference for item window.

© 2026 Boyum IT Solutions A/S

5.2.1.3.1.1 Bill of Materials General



Window pk_material.psr

Field descriptions

Field	Description

Quantity	Requirement in Input units
	Determines the requirement in input UoM per assembly in input unit (***See*** Input UoM , Units of measure)
	
	Calculation of total quantity
	The total quantity is always in inventory UoM
	Calculation is
	
	`total quantity = input UoM`
	`* Conversion factor to production UoM`
	`* Scrap % (formula: see scrap%)`
	`* Conversion factor to inventory UoM`

© 2026 Boyum IT Solutions A/S

Field	Description

```
* (Quantity from work order position * Conversion factor to
inventory UoM)
: Quanity per (see per)
+ fixed quantity surchase
```

IMPORTANT: When an UoM Group is defined for an item, the UoM Conversion is applied based on SAP definitions and NOT the conversions defined in Beas.

- Not planned Material position (Quantity = 0)

  You can define Material position with Quantity = 0

  Example: For Material positions which you need only in processes related to the business work flow or production processes of a company.

  Valuation

  In precalculation / post calculation you can define if Beas should valuate this Plan/Real cost. ***See*** Configuration Wizard Value negative quantity.

- By-products, coproducts, disassembly (negative quantity)

  Sometimes the user needs to indicate that several products are a result of a work order. These products can be:

  - Co-product: Usable product, automatically generated during the production of the main product.
  - By-product: A product that occurs incidentally or undesirably during the manufacturing of the main product.
  - Dismantling: Disassembling of assemblies and returning components to the inventory.

  In these cases, the BoM quantity is entered as a negative entry.

  Negative BoM quantity behavior

Procedure or module	Negative Bom quantity is treated as
Order recommendations	Planned receipts.
Backflushing	Posted automatically or manually.
Work order structure	Displayed in the same color as assemblies but with another icon. Displayed positive (as receipt).

© 2026 Boyum IT Solutions A/S

Field	Description

Procedure or module	Negative Bom quantity is treated as
Posting	Manually, backflushed or posted in via collective receipt. ***See*** Collective receipt.
Merging work orders	Individual receipts are inserted as negative BoM items and posted correctly to the WIA account.
Sales order	Negative items can be reserved for sales orders.
Pre-calculation	Valued according to Configuration wizard > Precalculation > Value negative quantity.
Post-calculation	Valuation based on post-calculation is not possible.

Order related sub assemblies

A Bill of materials position can be a sub-assembly with own Bill of materials list and Routing position.

How to manage this in the areas:

Procedure or module	Result
Pre-calculation	Bill of materials defined as receipt (negative costs) Valued according to Configuration wizard > Precalculation > Value negative quantity. Routing positions cannot produce negative costs. These are always zero.
Post-calculation	**Planned cost:** Bill of Materials: negative costs Routing position: zero **Real costs:** Bill of Materials: Sum of all transactions Routing position: Sum of all time receipts. It can only be positive value.

Configuration example for disassembling:

For disassembling, there is no main product. Use a service item (not storage-

© 2026 Boyum IT Solutions A/S

Field	Description

related) and define the resulting products in the BoM. Expected quantities are entered as negative.

```
Service item
|_ Product 1
|_ Product 2
```

Configuration example for a by-product:

For by-products indicate a main product on top level. This way you can work with off-cut and reuse waste material.

```
Main item
|_ Material
|_ By-product
```

Information on field names

Area Master Data

Quantity input UoM	BEAS_STL.INPUT_QTY If the stored value is NULL, MENGE_VERBRAUCH will be used. In th entry window, INPUT_QTY is entered, using INPUT_FACTOR the column MENGE_VERBRAUCH is calculated.
Input UoM	BEAS_STL.INPUT_UNIT Input UoM
Factor	BEAS_STL.INPUT_FACTOR Conversion factor from input unit to production UoM
Quantity Production UoM	BEAS_STL.MENGE_VERBRAUCH Requirment in production UoM. Reference quantity for all following calculations
Production UoM	OITM.U_me_verbr Production UoM from item master
Quantity warehouse	BEAS_STL.MENGE_LAGER Requirement in Inventory UoM – Information only
Inventory UoM	OITM.InvNtryUom

© 2026 Boyum IT Solutions A/S

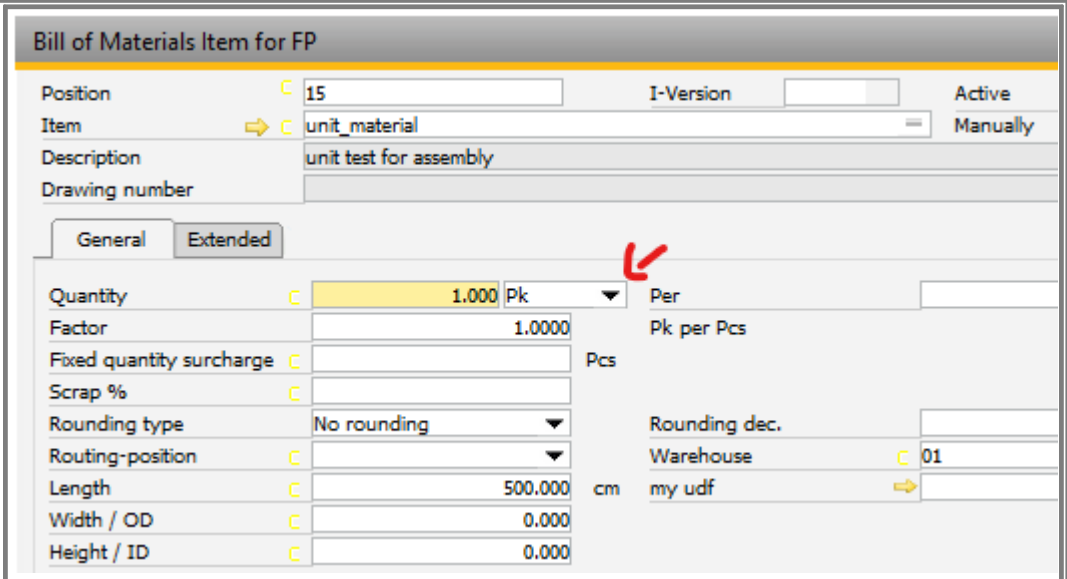
Field	Description
	<table><tr><td></td><td>Inventory UoM as per item master</td></tr></table> *INPUT_QTY, QUANTITY_USE* Note: If an issue or receipt document is created for this position or the position has order-related sub-assemblies, it is not possible to change the quantity. *INPUT_QTY, QUANTITY_USE*

Quantity per ..	Defines in which unit the quantity specification takes.
	
	The quantity specification relates to the assembly quantity x the factor specified here.
	At quantity 2 and "Quantity per 10 pieces", 2 pieces are needed per 10 assemblies. The default for "Quantity per" can be stored in the options.
	
	Requirement (quantity per) means: how much material is needed per assembly (quantity given in "quantity per")
	Assembly quantity "1" relates to the consumption unit of the assembly
	BoM quantity relates to the consumption unit of the BoM item
	
	Quantity per = 0
	`Entered quantity = Total quantity`
	Note: It is recommended to use "fixed quantity surcharge" instead of 0.
	
	Quantity per = 1
	`Entered quantity * Assemblies to be produced in Production UoM`
	
	Quantity per > 1
	`Entered quantity * Assemblies to be produced in Production UoM`
	`: Quantity per`
	MENGE_JE

Unit	Determines the unit of the quantity to be entered This is the field right of Quantity without title. Here you can choose the Unit of Measurement, in which you want to define the needed Quantity (***See*** field Quantity) Standard is Production UoM ***See***: Units of measure

© 2026 Boyum IT Solutions A/S

Field	Description



Inventory / Bill of Materials

It is possible to change this field every time and to every UoM which is defined in the Unit of measurement.

UoM Group is defined in defined item

If a Unit of Measurement Group is defined in the Master Data of this Material, you can choose only an UoM defined in the UoM Group. It is not possible to change the Factor in this window.

Related to the conversion formula and current values of this BoM Position, the system calculates the Quantity in Production UoM and then the Inventory UoM.

UoM Group is not defined in the item

If the item does not have a UoM Group, you can choose every UoM.

You can define a factor between this input unit and production unit only if the defined UoM is not the Production UoM of this item.

Note: Beas ignores length/width/height change as these are part of the Conversion factor - formula.

If you change the UoM factor in the item master data, or if you change the formula in the UoM, it does not affect the existing Bill of materials positions. The system takes the conversion factor defined in this window.

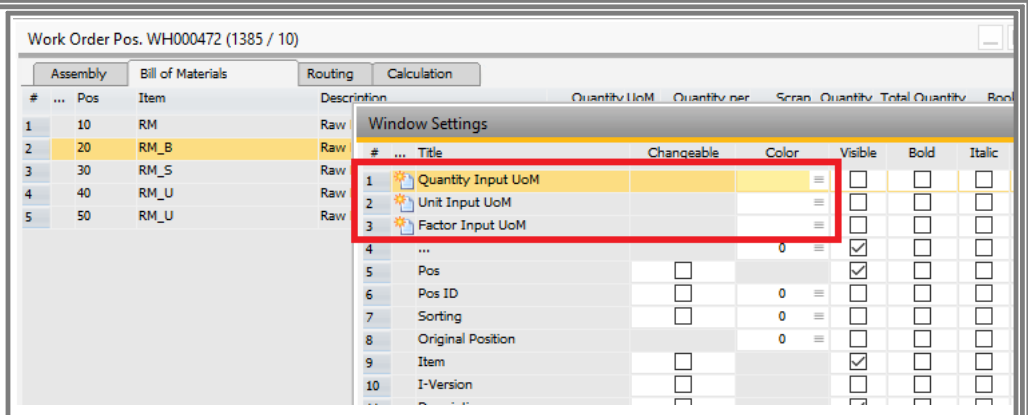
If you create a work order and the UoM Group is not defined, the system ignores

© 2026 Boyum IT Solutions A/S

Field	Description
	the UoM and UoM Factor definition, and always works with production UoM. Related to the conversion factor, the system calculates the Quantity in Production UoM and then the Inventory UoM. Precalculation It is possible to change this field every time and to every UoM, which is defined in the Unit of measurement. if a Unit of Measurement Group is defined in the Master Data from this Material, you can choose only an UoM defined in the UoM Group. Note: It is important that a UoM Conversion factor is defined in UoM Conversion. Related to the conversion formula and current values of this BoM Position, the system calculates the Quantity in Production UoM and then the Inventory UoM. Work order In **Work order > Bill of Materials** the input unit is only changeable: - if no transaction exists - a Unit of Measurement Group is defined in the Master Data from this Material You can choose only UoM if - Defined in the Unit of Measurement Group - UoM Conversion exists for this UoM and Inventory UoM If you change the Input unit, the Quantity will be calculated based on quantity in production UoM and on the Conversion formula defined in the UoM Conversion. If you change the Quantity in input UoM, the system calculates the quantity in production UoM and in inventory UoM based on UoM Conversion. If you change the quantity with BeasScript or import hub, the system overwrites the Input Unit with Production UoM. If you refresh the work order, the system overwrites the Input Unit with Production UoM. In Work order Bill of Materials you can activate the Input Unit via window settings. But this fields is not changeable.

© 2026 Boyum IT Solutions A/S

Field	Description



If you change the quantity in Production UoM, the system overwrites the Input unit with Production UoM.

UoM Conversion

If Unit of Measurement Group is defined in the Master Data of this Material, the system tries to use the conversion factor defined in the UoM Group.

If it is not stored there, the system searches the UoM Conversion table. If it does not exist, the system searches the opposite in the same table and creates the formula

"1 : [the defined formula]

If the opposite does not exist, the system returns an error and continues with Conversion factor 1.

Note on UoM Groups

In Bill of Materials you can define the Quantity in Input Unit. This will be converted in Production UoM and this in Inventory UoM.

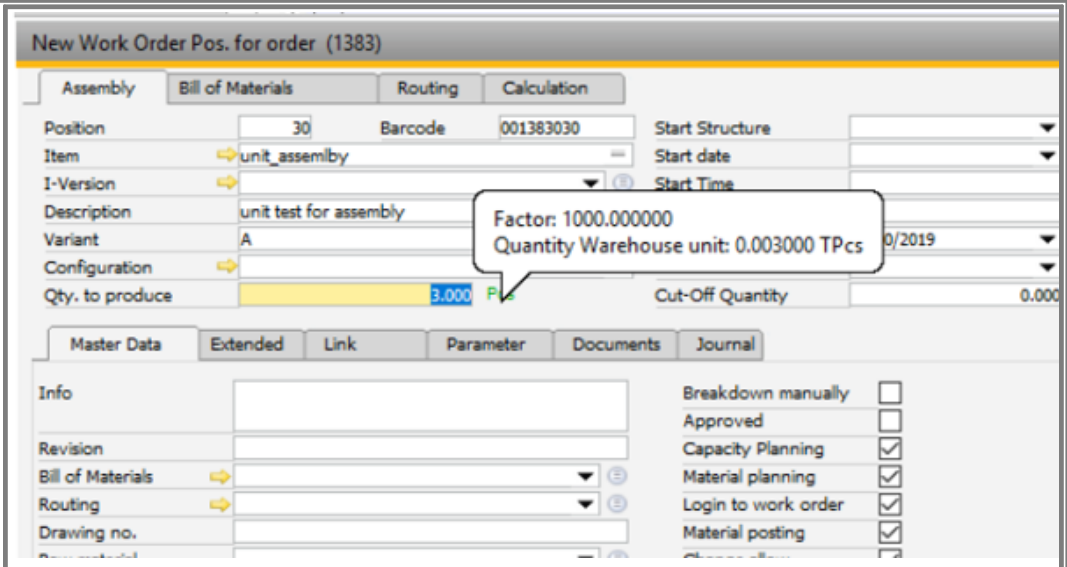
Problem: If the Production UoM is not the same as the Inventory UoM and the Input UoM is not Production UoM, the system cannot find an entry in the UoM Group. In this case, the system searches for the conversion in the UoM Conversion table to convert the quantity from Input Unit to production Unit.

Unit factor and UoM Tool tip

In the work order position, the system displays the unit in green which means that the unit factor is inside (***see*** image below). Moving the mouse over this field, the system displays a tool tip with information on the factor and the UoM (***see*** image below).

The system can calculate with 20 decimals rounded up to 6 decimals for display.

© 2026 Boyum IT Solutions A/S

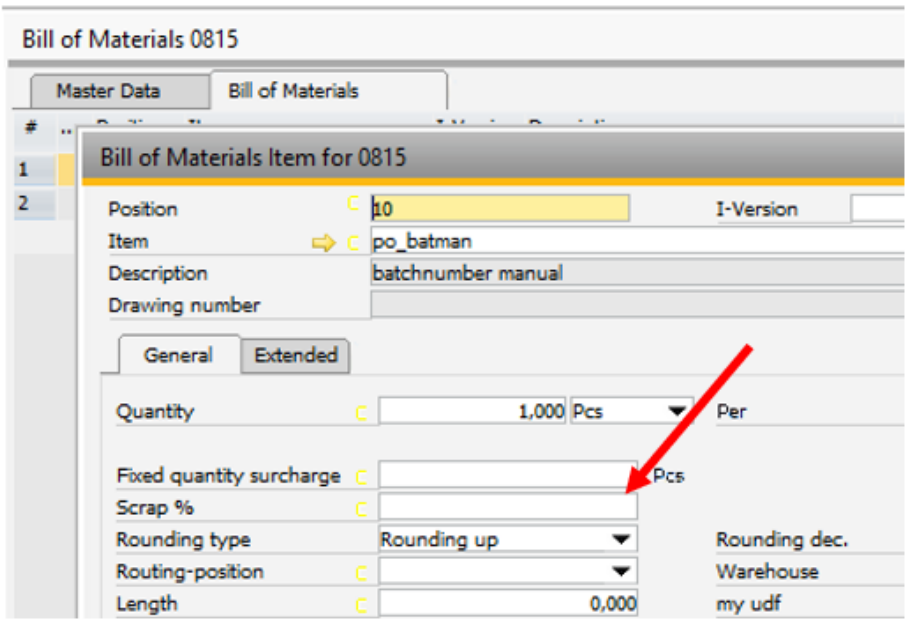
Field	Description
	 When you change the UoM, the system calculates the Quantity and the factor automatically (***see*** image below). The new Quantity is based on the current production unit. NOTE: This is only possible if a Conversion factor was defined previously). ***Example:*** Conversion: 1 TPcs =1000 Pcs Old Qty = 2000 Pcs Change UoM to TPcs. The System display Quantity = 2 TPcs If the Quantity in TPcs is changed, the system calculate the Production UoM and from this the Inventory UoM If length/width/height, density or item code self is changed, the base quantity is always the quantity in Production UoM and the system always calculates the quantity in the Production UoM and Inventory UoM.
Factor	Conversion factor between entry unit and consumption unit Only in Master Data and Precalculation: Displayed only if consumption unit and entry unit are different. Enter the conversion factor between the quantity indicated here and the consumption unit. Quantity is divided by the indicated factor.

© 2026 Boyum IT Solutions A/S

Field	Description
	12 decimal places are supported. ***Example*** Quantity 10, Factor 5 Results in a Requirement of 2 in consumption units of the material position per consumption unit if the assembly. Note: The "Exceeding planned quantity allowed" production configuration setting affects the Conversion factor: The Minimum/Maximum percentage is calculated based on total quantity. ***see*** Configuration setting. *BEAS_STL.INPUT_FACTOR*
Fixed Quantity surcharge	Defines a fixed and unique quantity surcharge Share of the surcharge – used for the Precalculation and production. The scrap factor at assemblies relates not the assembly, but only to its material requirement. The scrap is calculated per lot size: ***Example:*** Assembly lot size 500, required 1000, scrap 1 in assembly equals to 1 per 500 = 2 There is a total requirement of 1002 if a material 1x per assembly is required This value will be calculated in production and cannot be changed.
Scrap %	Determines Percentage of scrap Indicate material scrap which is added to the calculated requirement.

© 2026 Boyum IT Solutions A/S

Field	Description



Note:

This field is visible in Master Data and Precalculation.

In Work orders you can see the calculated scrap.

Set the formula to be used in the Configuration Wizard.

Available formula definitions:

`Scrap = Quantity * ( Scrap % )` (= default setting)

`Scrap = Quantity / ( 1 - Scrap%/100 )`

Example:

Definition with `Scrap = Quantity * ( Scrap % )`

Requirement: 10 Pcs

Scrap: 10%

Total requirement: 11 Pcs

Definition with `Scrap = Quantity / ( 1 - Scrap% / 100 )`

Requirement: 10 Pcs

Scrap 10%

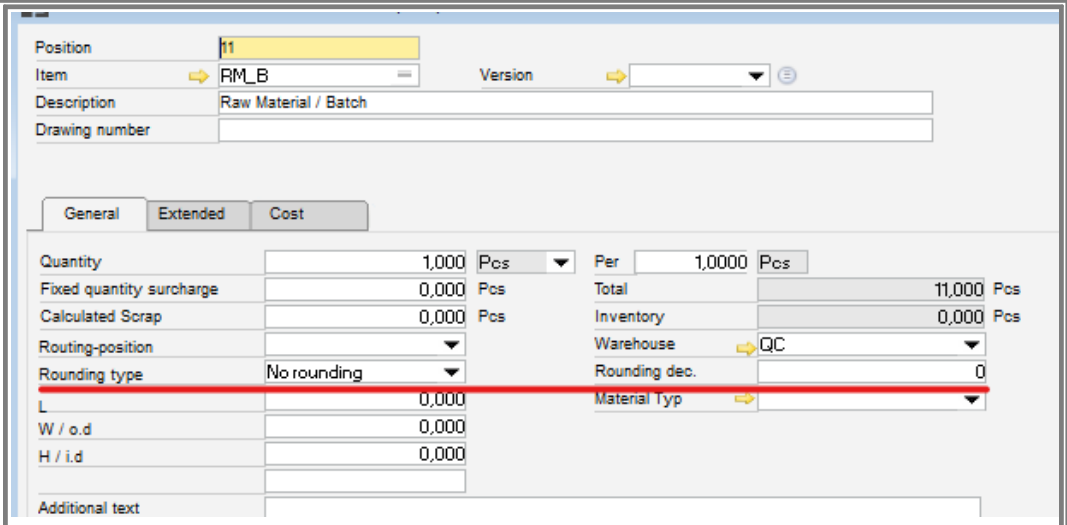
Total requirement:

© 2026 Boyum IT Solutions A/S

Field	Description
Scrap %	Calculated from scrap values This value is calculated when the work order is created. It cannot be changed; it is a one-time surcharge. (Assembly quantity * BoM quantity) + "calculated scrap" If the assembly quantity is changed, the "calculated scrap" does not change. To re-calculate, a Work order update is required. ***See*** - scrap factors in routing, ***see*** Routing - material scrap - scrap of superordinate assembly or phantom assembly, ***see*** Scrap - offcut factor of superordinate assembly or phantom assembly, ***see*** Offcut factor For purchase parts additionally - scrap as per master data, ***see*** Scrap - off-cut factor as per item master, ***see*** Offcut factor Note: If in BoM position "Do not post scrap" is activated, scrap will not be determined. ***See***: Master data – edit BoM Offcut Option consider offcut
Rounding type Rounding dec.	Determines the rounding rule The rounding rule can be defined here:

© 2026 Boyum IT Solutions A/S

Field	Description



Available settings:

No rounding	There is no rounding defined.
Round up	The number is rounded up. The exact decimal place can be defined in "Rounding Dec." ***Example:*** You have defined 1 piece per 18: the factor is then = 0.055556 If you multiply 0.555556 x (17+1) = 1.000008 After this you apply a round up --> The final result is 2.
Round off	
Rounding at 5	From 0,5 (1 Decimal place) or 0,5 (2 Decimal places) will be rounded up. Lower will be rounded off ***Examples:***

Requirement	Decimal place	Rounded
1,45	2	1,45
1,45	1	1,50

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>
<table>
<tr><th>Requirement</th><th>Decimal place</th><th>Rounded</th></tr>
<tr><td>1,45</td><td>0</td><td>1,00
Note: Only the last decimal place is considered. Thus, there is no rounding up of the second decimal place.</td></tr>
<tr><td>1,49</td><td>0</td><td>1</td></tr>
<tr><td>-1,5</td><td>0</td><td>-2</td></tr>
<tr><td>-1,45</td><td>0</td><td>-1</td></tr>
<tr><td>-1,45</td><td>1</td><td>-1,5</td></tr>
</table>
</td></tr>
<tr><td>multiple of</td><td>Always the multiple will be formed, which will be indicated in "Rounding Dec."
Example:
Multiple order of 4
4, 8, 12, 16 is counted
At quantity 3 is rounded to 4
At quantity 4 the quantity 4 remains unchanged
At quantity 5 is rounded to 8

Example:
Multiple order of 10
10,20,30,40 is counted
At quantity 1 is rounded to 10
At quantity 10 the quantity 10 remains unchanged
At quantity 11 is rounded to 20</td></tr>
</table>

Example 1:
A palette per 100 pieces is required
Quantity of requirement corresponds 0.01 palette per piece. But at least one palette has always to be required and from 101 pieces even 2 palettes. The BOM position will be adjusted as following for this:
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Quantity: 0,01 Rounding type: multiple of Rounding Dec. 100 ***Example 2:*** A half piece is required. because there is no half piece. It must always be rounded up to 0 decimal place because there is no half piece. Thus a requirement of 0,8 will actually be rounded up to 1 piece. The following setting occurs: Rounding type: round up Rounding Dec: 0 Note: Negative statement of decimal places are not supported. Rounding results are always in Inventory UoM.
Routing-position	Determines the routing position for which the material is required For backflushed material, the material is issued on receipt of this routing position. The MRP run and APS consider the start date of this operation when calculating the material requirement. **Phantom assembly group:** Routing-assignments work with restrictions for nested phantom assemblies: The routing assignment of the above located main assembly group always applies instead of the phantom assembly group assignment within a sub-phantom assembly group. **Master data:** Which routing is to be used can be defined in the BOM. The routing with the same ID will be used if none have been defined. A checking of the assignment is not possible because a routing can be assigned to multiple Bill of materials. The assignment will not be checked even at a change of a routing.

© 2026 Boyum IT Solutions A/S

Field	Description
	Production: Assignment is always done at the routing of the current production position.
Total	Calculated total quantity in Inventory UoM Only in Work order Bill of Material window More information see concept "Total Quantity"
Inventory	Current Inventory in Inventory UoM on Warehouse, which defined in field "Warehouse". Only in Work order Bill of Material window

Warehouse	Default warehouse for planning and backflushing
	If a warehouse is specified, the material is issued from this warehouse by default when backflushing. Warehouse information is mandatory.
	You can choose any warehouse defined for this item, and active on item-warehouse side and active on warehouse side.
	It is allowed to select a warehouse, which is locked for issue transactions.
	
	MRP checks the warehouse defined in the BoM Position.
	Precalculation: It is possible to select locked warehouses.
	
	If the material position is an order-related sub-assembly, the system creates a new work order position for this sub-assembly but does not take the warehouse from the Bill of materials position.
	For the new work order position, the system uses the standard rules for warehouse definition. ***See*** warehouse rules.
	Example:
	Assembly A, default Warehouse 01
	BoM Order-related Assembly B, default Warehouse = 01, Bill of Materials Warehouse 07
	
	If you create a work order:
	`Work order Position 10: Assembly A = Warehouse 01`
	`Bill of Material Position 10: Warehouse 07`
	`Work order Position 20: Warehouse 01`
	
	Note: At "Production backflushing" you can specify an issue warehouse which has a higher priority.
	See Production backflushing

© 2026 Boyum IT Solutions A/S

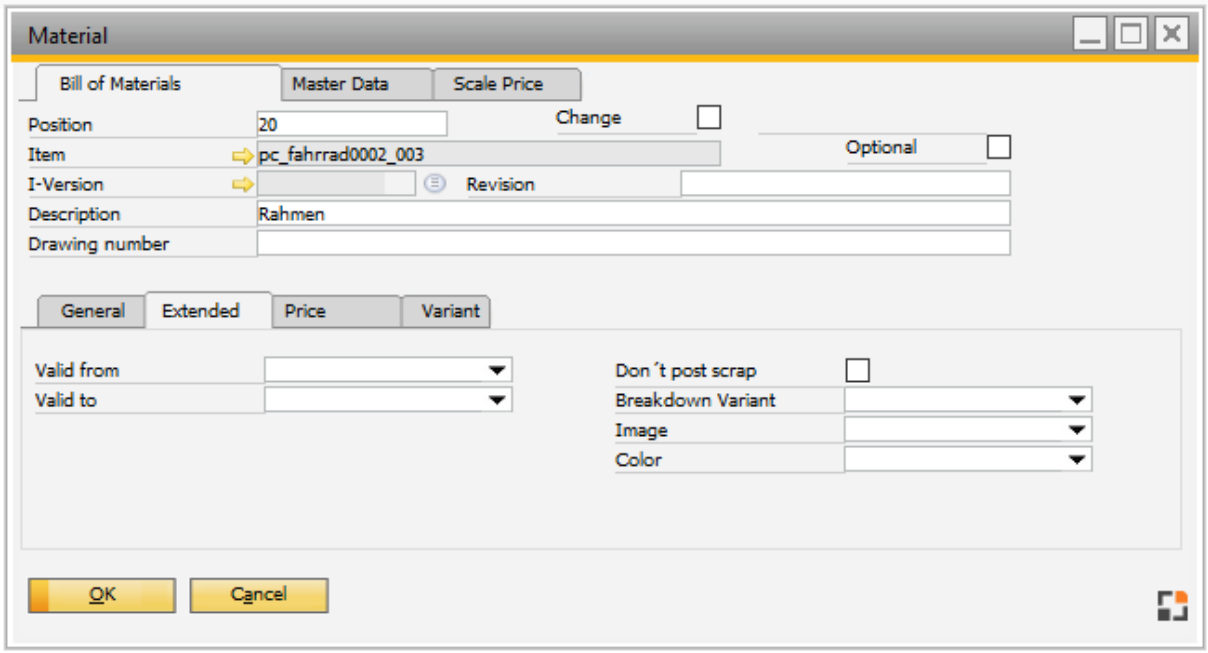
Field	Description
Bin Location	Bin location number - available for bin-managed warehouses. Only valid "Bin Locations" for the selected warehouse are allowed. After changing the warehouse, the bin location content is set to empty in this field. **Work Order BoM and Precalculation:** A work order created from an Item, or Precalculation copies this field automatically for the BoM. If there is not enough stock to pre-assign quantities from this, pre-defined bin location, Beas continues to pre-assign them from further bin locations based on the sorting rules.
Length Width / OD Height / ID	Length, width, height or outer/inner diameter Determines the measurements of the materials. The requirement of the consumption unit can be indicated. The required quantity in warehouse unit can be defined in Quantity unit - Conversion The measurement can be indicated in the conversion. e.g. Requirement: 100mm (Consumption unit) Conversion to piece: 1 piece = 1000mm A requirement of 0.1 piece is then determined.
Completed	Production: defines the position as "completed" It is set automatically according to the settings if the default quantity has been reached. The completed BOM positions are no longer considered in the material requirement list and MRP.
Info	Any information This field is unnamed in the basic installation. The name of the field can be configured in **Configuration Wizard > Master Data > Bill of Materials > View > Info Field**.
Closed	Close this Bill of Materials position Only available in Work order Bill of Material position Displays if the Position is closed or not if this position not closed, you can close this position

© 2026 Boyum IT Solutions A/S

Field	Description
	If you want to reactivate this Bill of Material position, you must choose "right mouse click" – "Position re-activate"

5.2.1.3.1.2 Bill of Materials Extended

In this tab you can define validity of the material, scrap and variant related information and define display features.



Window pk_material.psr

Field descriptions

Field	Description
Valid from - to	Set validity of the material If no date was entered, it is valid always, otherwise only in the specified period. **Precalculation:** Precalculation date serves as reference. In Precalculation, all BoM positions are displayed but only the valid ones are valued.

© 2026 Boyum IT Solutions A/S

Field	Description

	Production
	
	Depending on **Configuration wizard > Production > Capacity planning > Default calculation method**
	
	Calculation backwards:
	Delivery date serves as reference. It is checked only at work order creation. If the delivery date is changed subsequently, there is no second check as long as the work order is not updated.
	
	Item-Processing time:
	The Delivery date of the respective assembly serves as reference. The item-processing time of the respective assembly will always be used for the calculation of the completion date of a sub-assembly *(beas 9.1 PL: 08)*.
	
	Creation via ue_api_wo
	The parameter "validdate" can be defined additionally, if the work order will be created via the API. *(beas 9.1 PL: 08)*
	`declare=wo=ue_api_wo`
	`wo=set=validate=<mydate>`
	`// .. normal script to create or refresh a work order`
	
	Sales order in Order recommendation
	At breakdown of the assemblies the delivery date of the sales order is used, minus the average delivery time, stored in the Configuration wizard.
	
	Special case: **Configuration wizard > Production > Capacity planning > Default calculation method = Default calculation method**
	The calculated date of requirement of the respective sub-assemblies is used as reference date for sub-assemblies.
	
	Example 1
	A supplier changes the item number from a given date

© 2026 Boyum IT Solutions A/S

Field	Description
	Pos 10: previous item number until date x Pos 20: new item number from date x+1 ***Example 2*** At date x additional material is required. If larger changes are needed, we recommend to use item version control.
Don't post scrap	☐ If enabled, scrap quantity is not taken into account If this option is enabled, the scrap or offcut indicated for this position will not be taken into account. ***Example of use:*** Production position Quantity100, Scrap/Offcut 10 100 pieces in the package In BoM next to components the packaging size can be indicated. Scrap shall not refer to packaging but only to the components. In this case enter: 1 package per 100 pieces, Activate "Do not post scrap" *beas9.1-004-067-000*
Breakdown Variant	☐ Define the short variant for order related sub assembly If you define a short variant (A-Z), the system uses this for complete order-related sub-structure With this flag you can overwrite the Short variant Information from previews level This field is only visible if the Item of this Bill of Materials position is an order-related assembly. ***Example:*** Sales Order A001 with Variant B BoM SubA002 (order related Item) "Breakdown with Variant" = empty

© 2026 Boyum IT Solutions A/S

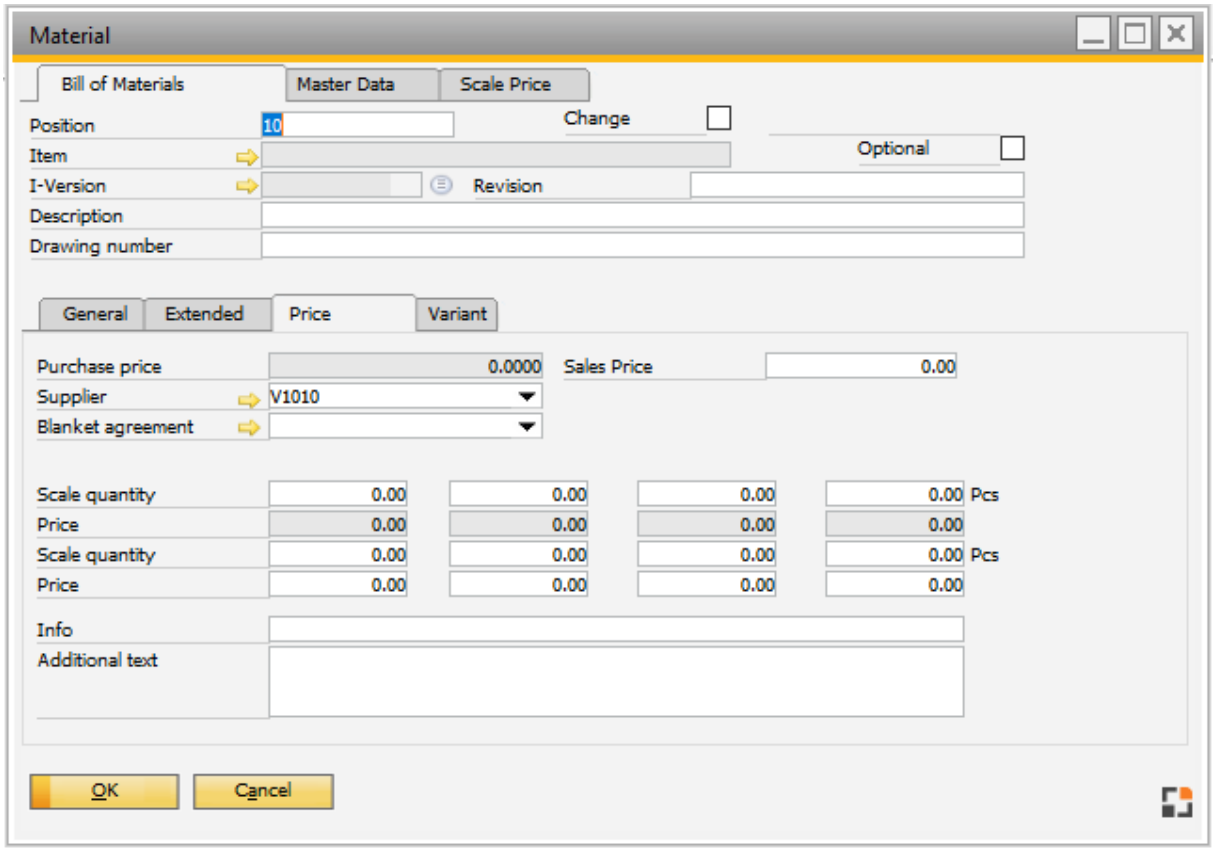
Field	Description
	In this case the system uses Variant B for breakdown "SubA002" Sales Order A001 with Variant B BoM SubA002 (order related Item), "Breakdown with Variant" = C In this case the system uses Variant C for breakdown "SubA002" *beas 9.3 PL 2*
Image, Color	Define a bitmap icon and font color for the material to be displayed in the precalculation structure.

back to Precalculation Header

5.2.1.3.1.3 Bill of Materials Price

In this window the price and additional information related to a Bill of materials position can be defined.

© 2026 Boyum IT Solutions A/S



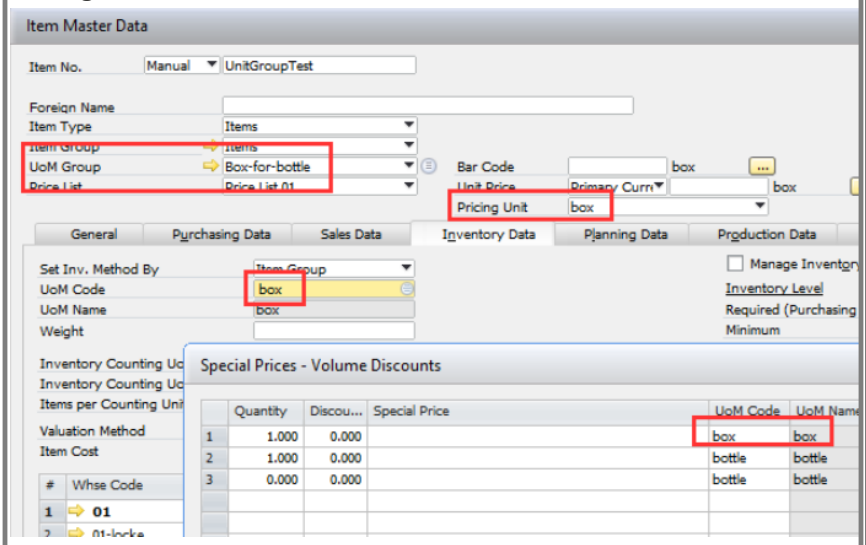
Window pk_material.psr

Field	Description
Purchase price	Purchase price of material in system currency. Determined at the moment of calculation according to the defined pricing. Prices in other currencies are converted to home currency. If pricing returns 0, a second pricing can be stored. ***See*** Configuration wizard – Material pricing Scale prices If a scale price is stored, it has a higher priority. ***See*** Material scale prices Special price lists If special price lists are taken into account and a supplier was selected, they have a higher priority. ***See*** Configuration wizard – Special price lists Blanket agreements Blanket agreements are considered, if

© 2026 Boyum IT Solutions A/S

Field	Description
	a) Agreement type is "specific" and confirmed, b) Special price lists are considered, c) In Configuration wizard consideration of blanket agreements was enabled . ***See*** Configuration wizard – Calculation – Precalculation. Price per warehouse If "price per warehouse" was defined in the basic initialization, and "item valuation method" was selected for pricing, the following priority rule applies: 1. warehouse as per BOM item. 2. warehouse as in calculation (***see*** header). 3. default warehouse of the item. UoM Prices Note: Beas supports Item Unit Groups in the following way: **Price list: last purchase price** *(Beas 2022.09)* Item without Unit Groups always takes price in Inventory UoM. Item with Unit Groups: In the Item Master data you can define the Purchase Unit, Pricing unit and Inventory unit. You can create a purchase order in many different UoMs and SAP saves the last purchase price for every UoM separately. This means: You can have many different last purchase prices. Beas supports price definition in a different unit of measure than the inventory unit. *(Beas 2025.04)* If a last purchase price exists in the pricing unit of this item, it has higher priority. Beas converts this price automatically to price in Inventory unit. **Other price lists, special price lists** Beas does not support property "Pricing Unit". The system ignores all

© 2026 Boyum IT Solutions A/S

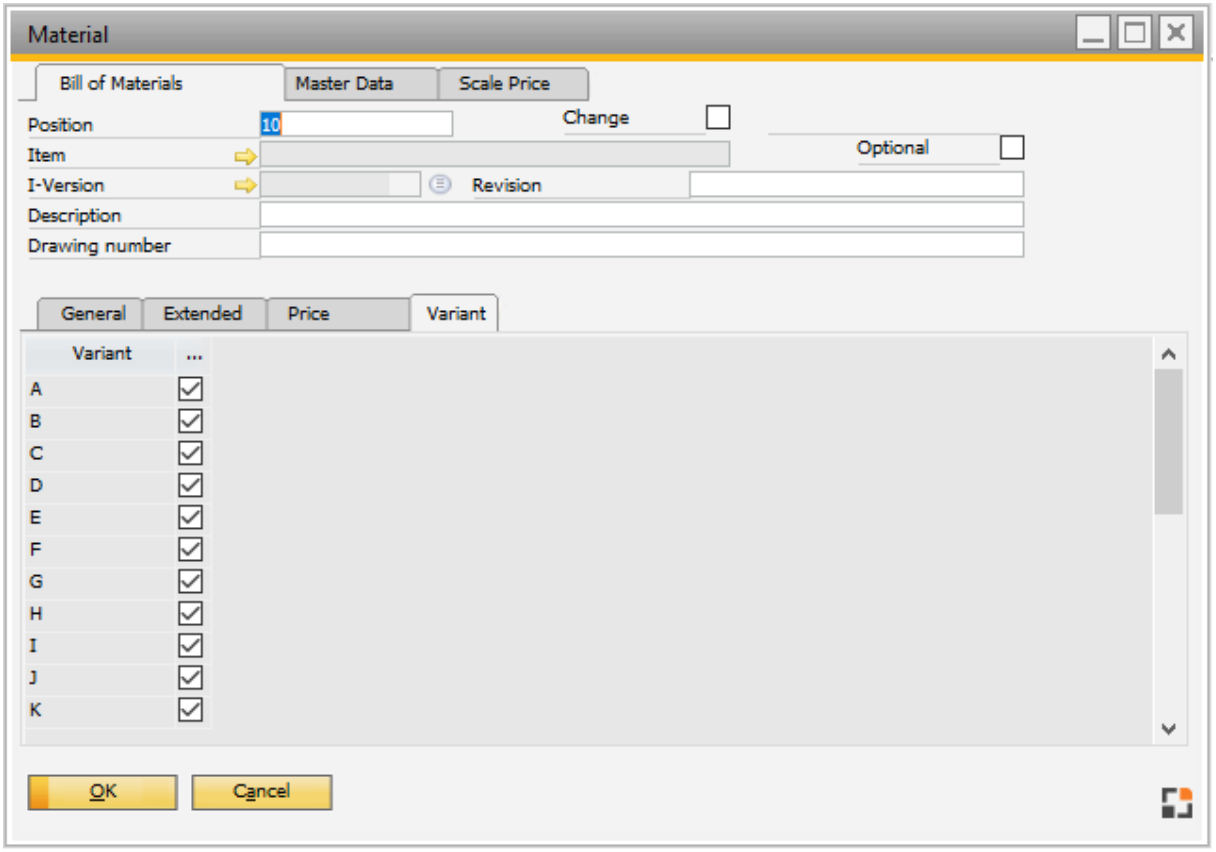
Field	Description
	special price lists if the pricing Unit is not the stock unit. Beas reads a price from a price list or special price list only if Item-Pricing Unit, Item-UoM Code and Price list UoM Code are the same.  Update prices Prices are determined at the moment of calculation and they are not changed anymore. This makes a manual correction possible. You can nevertheless change the pricing subsequently and read in the prices again: ***See*** Precalculation controls – valuation. Negative BoM items Negative BoM items have a different pricing, which can be set up. Configuration wizard – Material pricing negative BoM.
Sales price	
Supplier	Select supplier from the drop-down list.
Blanket agreement	Link to blanket agreement.
Scale quantity	The system also displays the UoM, in which you have to define the Scale quantity. ***See*** image on top. The Unit is always the Inventory UoM of this Material.
Price	After the calculation is completed, customer prices are saved in these price fields.

© 2026 Boyum IT Solutions A/S

Field	Description
	Attention: When Consider Price list setting is active in the Configuration wizard, only the first 8 values of customer definition are saved here. All other prices defined in the customer are ignored. When Always determine current material price setting is active, you need to click Calculate manually to see the updated prices.
Info	Free information field.
Additional text	Free text field.

5.2.1.3.1.4 Bill of Materials Variant

In this tab you can define for which Variant the Bill of Materials position is active.



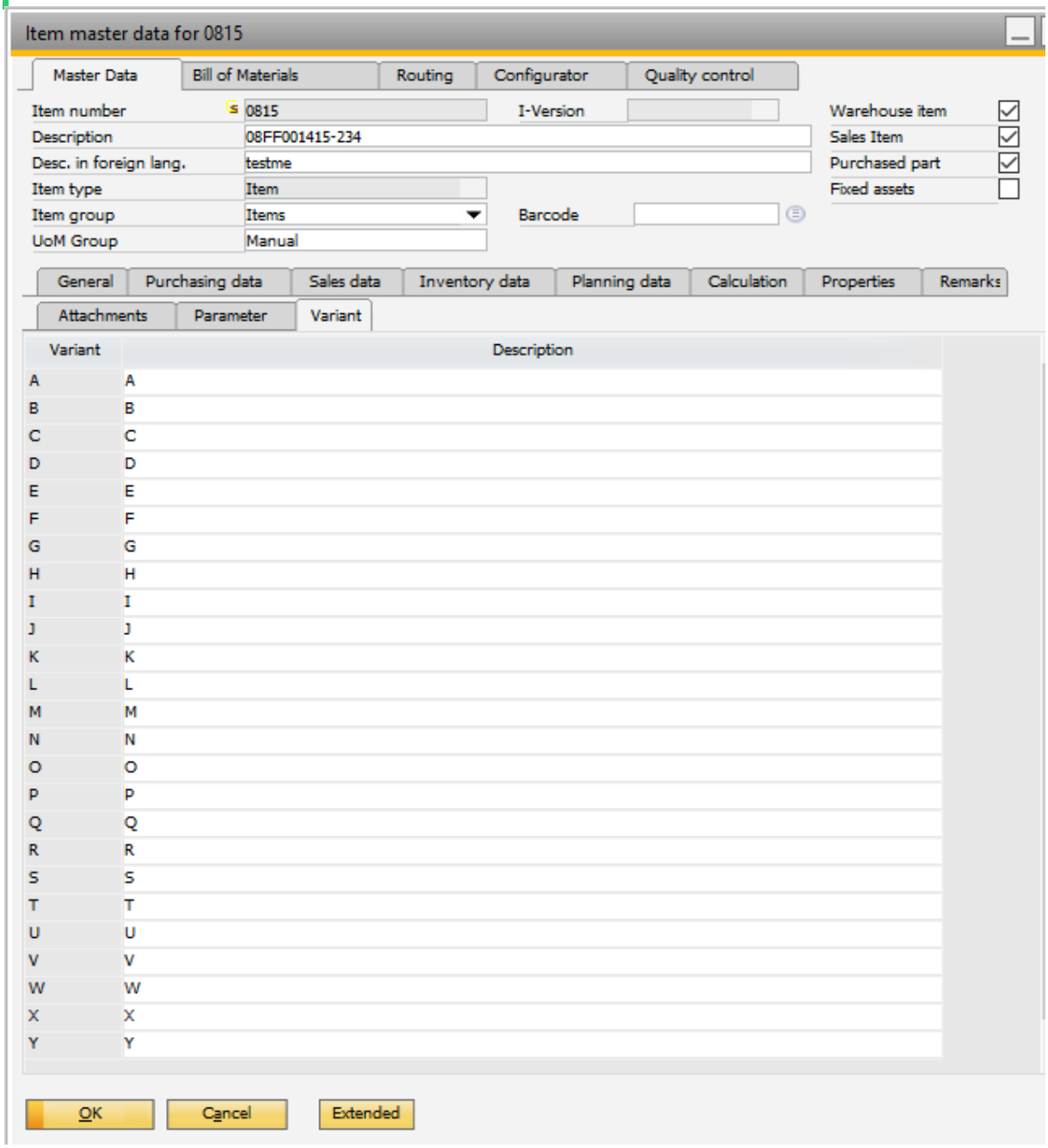
Window pk_material.psr

In this window you can define up to 26 variants. It is accessible from the Item Master for XXX window.

© 2026 Boyum IT Solutions A/S

Example:

PATH: Inventory > Item report > Item Master Data > "Master Data" tab > "Variant" sub-tab.



Window artikel_edit.psr

Tab "Variant"

Field	Description

© 2026 Boyum IT Solutions A/S

Variant	Possible variants (A–Z).
Description	Description of the variant.

Before you can select variants for BoM and Routing, you must enable them in the view: **right-click > Window settings.** Scroll down in the new window and select the variants you want to have displayed. These settings apply globally and not per item, that means even if you only have 5 variants of an item, you must always enable the maximum number of options.

Select then the BoM or Routing tab, to create the different BoMs or Routing positions for each variant. Using check boxes you can assign each BoM item or operation to the variants. All BoM items can be added or removed to any variant.

Tab "BoM" and "Routing"

(only visible when enabled in window settings).

Field	Description
V-A	Variant assignment (BoM for "A").
V-B	Variant assignment (BoM for "B").
.....	
V-Z	Variant assignment (BoM for "Z").

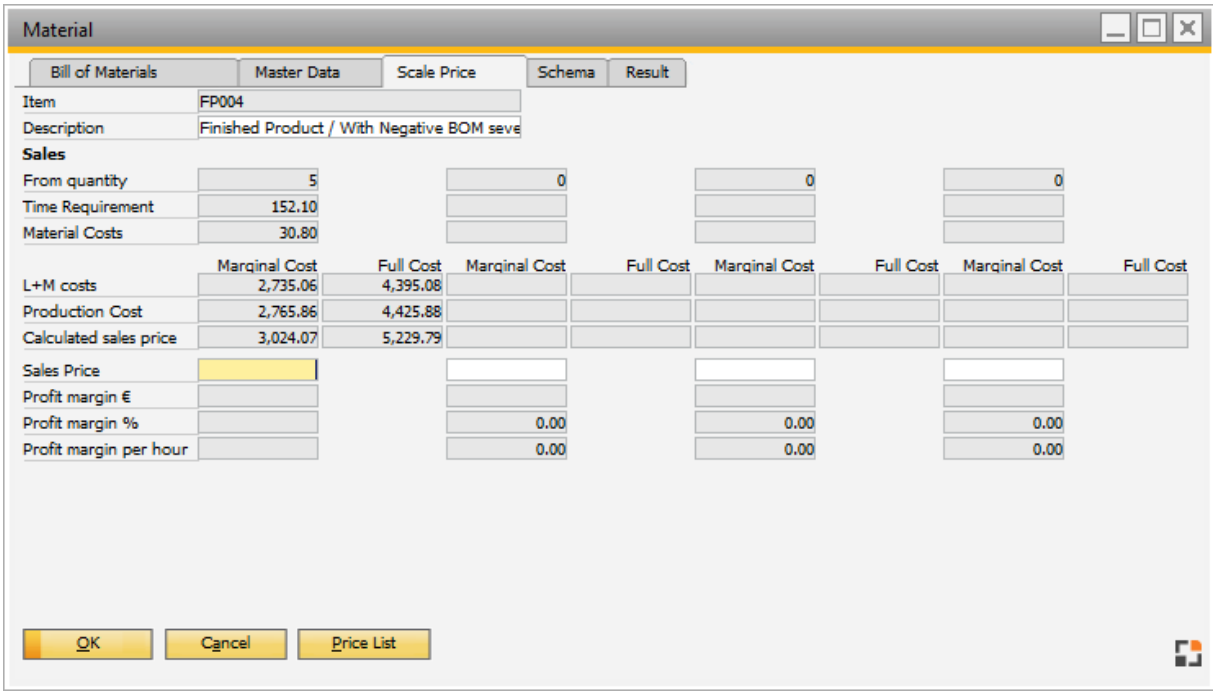
back to Item Master

5.2.1.3.1.5 Material Scale Price

Display of scale prices. The selected item is displayed. Only the item designation can be changed here.

Below the deposited scale prices are displayed.

© 2026 Boyum IT Solutions A/S



pk_material_staffel.psr

Note:

Only visible if

- "Calculation schema per assembly" was activated in the currently used Calculation schema.
- The current Bill of Materials position is an assembly.

The system displays the result in the same unit as defined in Lot size.

Display calculated Costs based on the current schema for all defined lot sizes.

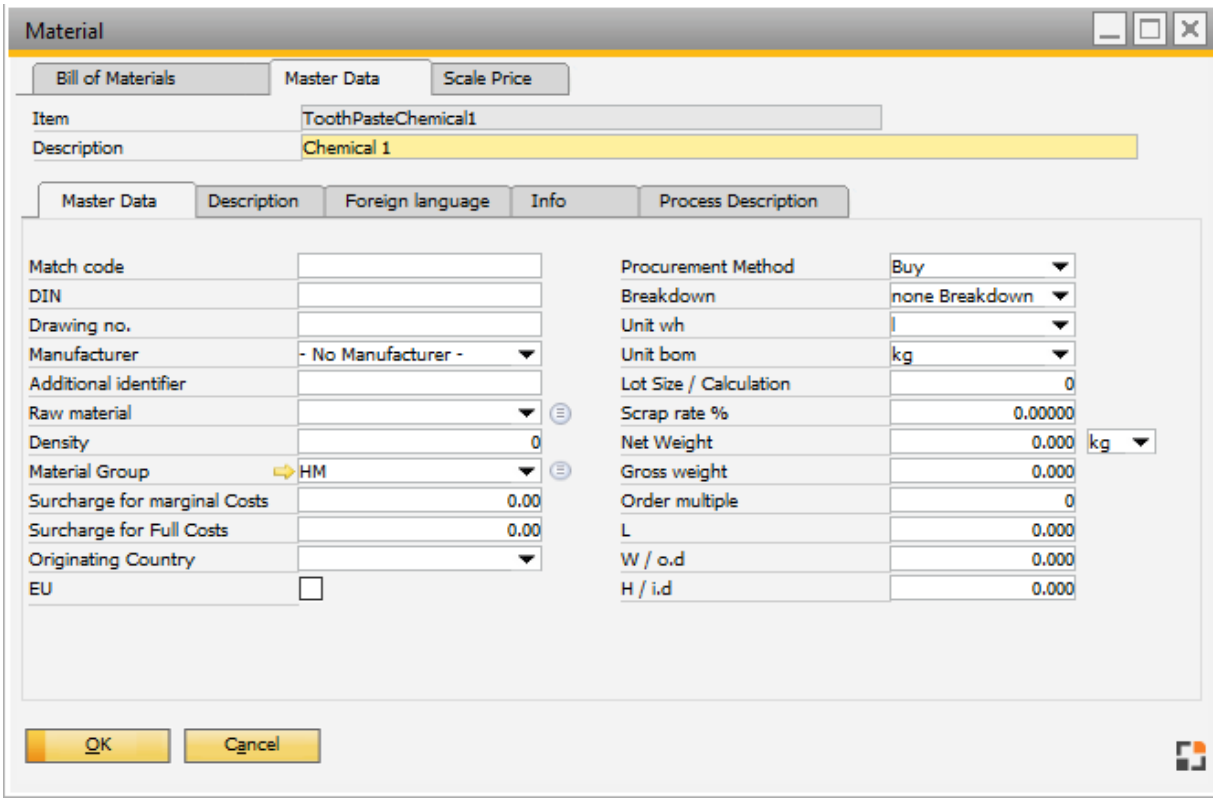
It is also possible to insert the sales price for this assembly lot size.

back to Precalculation Material

© 2026 Boyum IT Solutions A/S

5.2.1.3.2 Material Master Data

A copy of operation master data is displayed. Any changes made here only affect the calculation.



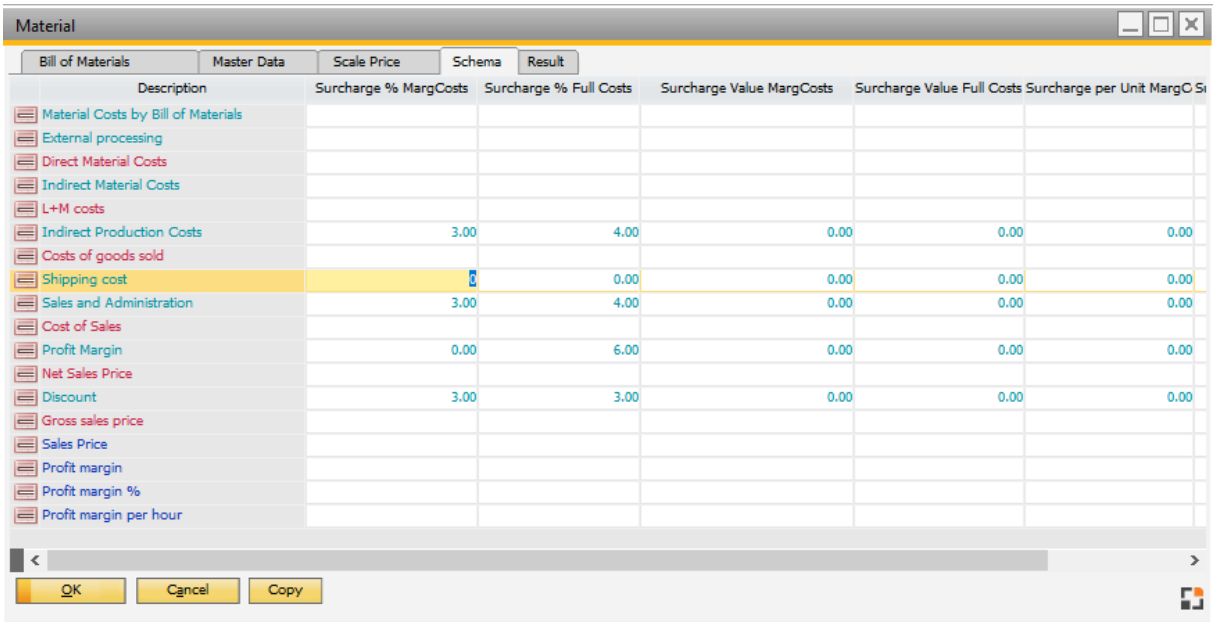
pk_material_s2.psr

back to Precalculation Material

5.2.1.3.3 Material Schema

In this window you can change Surcharge for every Schema object related to the assembly from the chosen Bill of Materials position.

© 2026 Boyum IT Solutions A/S



pk_material_schema.psr

Note:

Only visible if

- "Calculation schema per assembly" was activated in the currently used Calculation schema.
- The current Bill of Materials position is an assembly.

© 2026 Boyum IT Solutions A/S

5.2.1.3.4 Material Result

pk_material_schema_result.psr

Note:

Only visible if

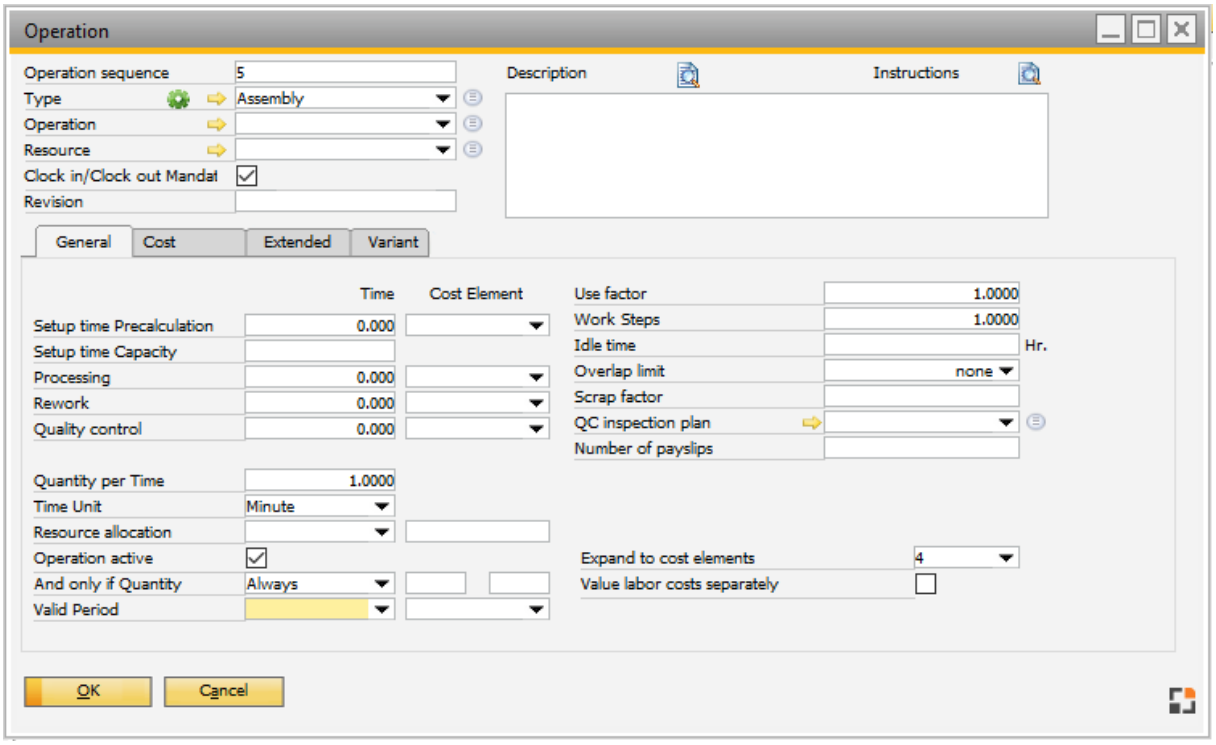
- "Calculation schema per assembly" was activated in the currently used Calculation schema.
- The current Bill of Materials position is an assembly.

5.2.1.4 Operation

In this window you can edit an operation position in Precalculation.

PATH: Sales A/R > Precalculation > **Open** Precalculation > "**Create Operation**" function

© 2026 Boyum IT Solutions A/S



Window pk_arbplanos.psr

Header

Field	Description
Operation sequence	Position number The position number is counted in increments of 10. ***See*** Configuration wizard to set up. The field is alphanumeric with 20 digits. **Note** The order is not related to a position number, but defined in the list of BOMs by Drag&Drop. It reflects the order of entry by default. Position number cannot be unambiguous. The field "internal position number" (BEAS_APL.POS_ID) shows the internal, continuous and unique ID. **Operation catalog:** In the operation catalog there are no operation numbers, only a catalog ID.

© 2026 Boyum IT Solutions A/S

	Precalculation, routing and work order: In these functions you can edit the alphanumeric and the numeric position number. *BEAS_APL / BEAS_FTAPL.POS_TEXT* Variants with script Left of the position field you can open the script window by clicking the formula icon ("display formula fields") Call-up is also possible via right-click – script. **The following variables are available:** **Variable** / **Description** `e_belnr_id, e_belpos_id` – Work order, Work order position `e_aktiv` – Routing position active J/N `e_routingid` – Routing Id `e_itemcode` – Itemcode `e_quantity` – Quantity in regional format `e_source` – "routing" `e_info1` – Info for current routing position ***See*** Variant generator – Script. Note: This function is only available if the Variant generator was activated in the Configuration wizard.
Type	Select a type from the drop-down. The / icon opens the Operation types editing window.
Operation	Select an operation from the drop-down.The / icon opens the operation catalog definition. This can be used to adopt the information stored in the master data/operation, thus accelerating input.
Resource	The work station, personnel group, machine or machinery group or also external operation supplier or person on or through which the operation

© 2026 Boyum IT Solutions A/S

	is conducted. The / icon opens the Resources editing window. In routing and work order routing, it is mandatory to specify a resource. In operation catalog the resource is optional. ***See*** Resources.
Active	Only in Work order routing position > Operation sequence XXX editing window.
Clock in/Clock out Mandatory?	Defines whether clocking (factory data recording) is mandatory. Check box. This is important when calculating the last operation. Definition: The last operation is the position in which "Clocking mandatory" is active for the last time. If, for instance, the finished assembly is entered at the last operation (depending on the setting), it can be determined this way (necessary if the last operation is "Take down", for instance, but it is not clocked). If the last operation is NOT reportable, receipt is performed here for the last reportable routing, and not for the "Receipt for last routing" option. ***Example***: 10 not reportable 20 reportable 30 reportable 40 not reportable First operation is position 20 and position 30 is the last position. To the other position a report is possible, but not mandatory. Therefore these are not taken into account at the checking of rules.
Revision	Add text - only for information.
Description	Description of the activity. It is possible to add several lines, (max. 16 000 characters). An external editor is opened by double-clicking the field or single-clicking the / icon next to "Description".

© 2026 Boyum IT Solutions A/S

You can insert formulas which create your description while creating a work order:

Customizing the routing description, Item name or additional BoM text

In addition, in the operation description, additional information on the BoM, or item, information from a formula or variant can also be stored in the description of a routing.

Placeholders can be inserted into routing descriptions for this purpose. These placeholders begin with < and end with >. All variables as well as separate formulas, tables, types of origin, etc. can be inserted.

The origin itself is defined in the placeholder using **origin type** and "**:**".

The type "Script" is used if the type of origin is not specified.

TYPE	Description
f:	Origin is a formula, e.g. <f:MyFormula>
t:	Origin is a table, e.g.. <t:tab4711>
i:	From assembly – item master: e.g. <i:itemname> = Item name
v:	Variable which can be defined as necessary: e.g. <v:var0815>
c:	Beas-script. Can be defined as a type of origin definition, e.g.: <c:e_belnr_id> Document number from work order, <c:e_aplatz_id> = resource ID of the routing position
p:	Parameter from a variant. <p:so_sofa_length>

Example of an operation description.

```
<c:e_quantity> * Cutting to size according to drawing numbe
Color: <v:u_color>, length: <v:length>, width: <v:width>
```

with:

© 2026 Boyum IT Solutions A/S

	e_quantity: e.g. from beas Script the value "5" gives u_dnr: Drawing number, e.g. "ZN 078 12345" u_color: e.g. red length: e.g. 20 width: e.g. 10 the following information results in the field "Description": 5 * Cutting to size according to drawing number ZN 078 12345 Color: red, length: 20, width: 10 **External operations** For external operations the entered text is transferred to the service description. For further information ***see*** collective order – description. Format needs to be considered.
V-A ... V-X	Short variants. Set hooklet to make this row available as variant Right-click on the title row: - selection: all - selection: delete This is to select/deselect the check boxes for all lines.
Instructions	Additional text field. The instructions field can be edited in Routing position using clicking the icon. The icon is displayed red when any text is stored. You can use different a text format, set up in Configuration wizard. **Note**: Changing the text format in the Configuration Wizard has no effect in existing entries.

Note: The prices on sub-assemblies with negative quantity is set to zero for operations (including parallel operations).

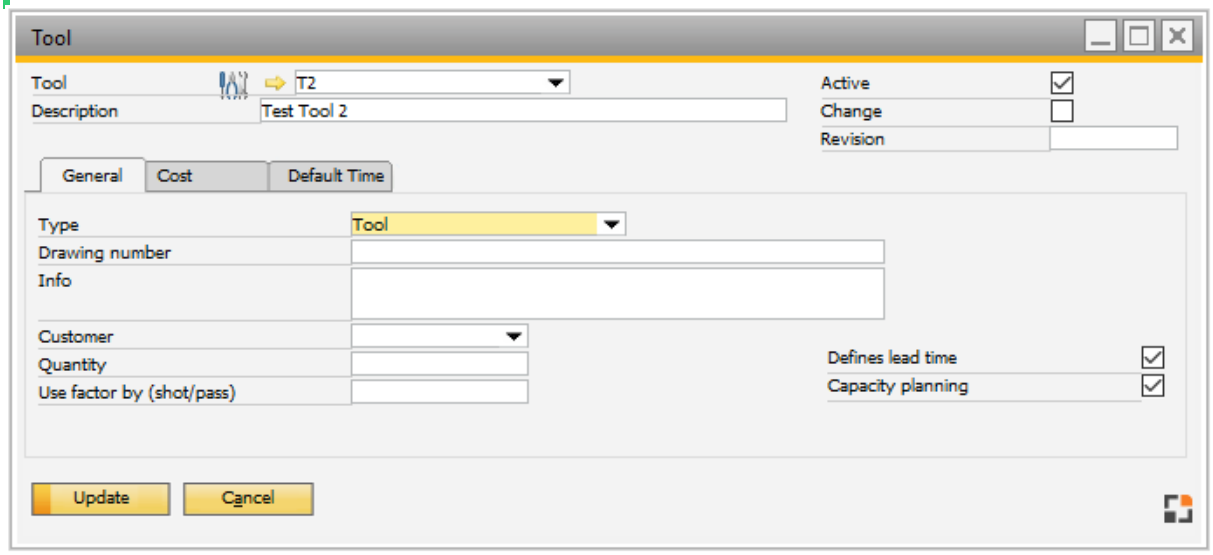
back to Precalculation

5.2.1.4.1 Precalculation Tool

In this window you can add a tool to a Precalculation operation.

© 2026 Boyum IT Solutions A/S

PATH: Precalculation > Open a calculation > Precalculation structure > right-click on an operation >"Tool"



window pk_wkzpsr

Header

Field	Description
Tool	Field used to assign the tool to perform this operation. This field is mandatory. When selecting "Auxiliary tool", the tabs disappear, as they are not considered in cost calculation or in capacity planning. ***See*** Tool Administration
Description	Field used to display the tool description. This field cannot be changed because it automatically comes from the chosen tool.
Active	Check box field used to set the tool as active in the routing. Enabling the active flag makes the tool available for selection at productions operation. If it is deactivated, selection is not possible. If it is still in use, it is blocked in planning together with its use.
Change	Activate check box to allow changes.

© 2026 Boyum IT Solutions A/S

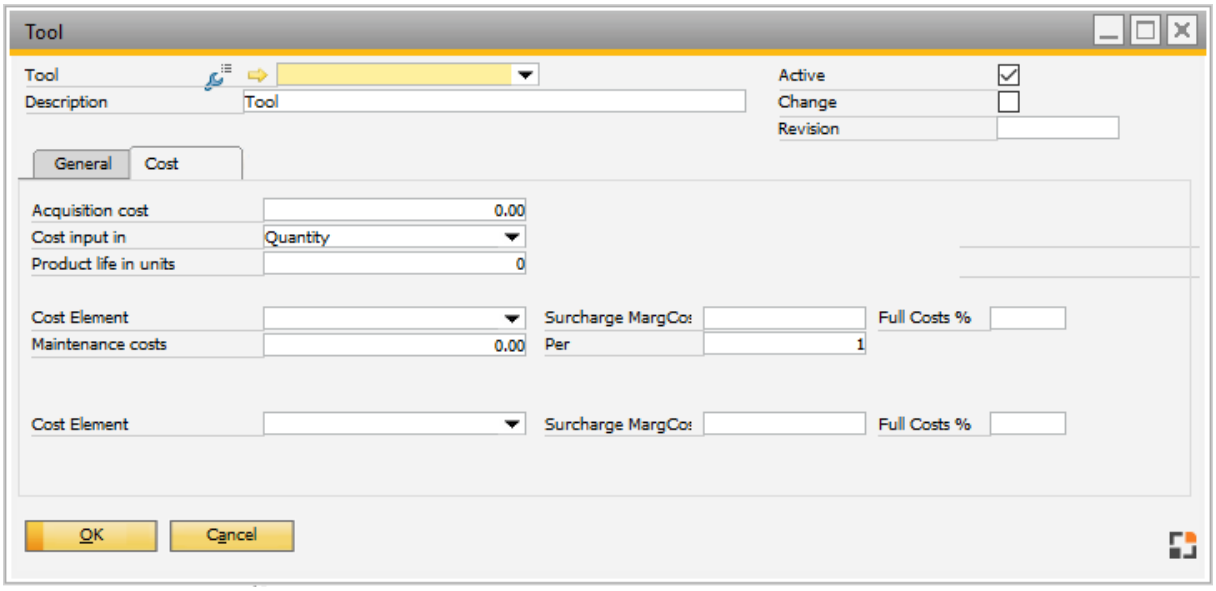
Field	Description
Revision	Version ID for information. E.g. "Tool Revision 1", "Tool Revision 2" etc.

General tab Default tab

Field	Description
Type	Type of tool. Selected automatically based on which tab the in **Inventory > Tool Administration** the tool was created: Tools or Utilities.
Drawing number	The technical drawing number. This field cannot be changed because it is read from the chosen tool.
Info	Additional free text information on the tool entry.
Supplier	Select a business partner if the tool belongs to a customer, was sent to a provider, or is used to manufacture parts that will be sold to a specific customer.
Quantity	Enter quantity of tools.
Defines lead time	Activate to define lead time for the tool. If enabled, the "Default tab" appears to enter time/unit and cost element related information.
Capacity planning	Activate to consider the tool in capacity planning.
UDF 1–4	User-defined fields.

Cost tab

© 2026 Boyum IT Solutions A/S



window pk_wkzpsr

Field	Description
Acquisition cost	Purchase or production costs in home currency. The allocation of a tool's depreciation to the goods that were manufactured using it.
Cost input in	Defines whether the maintenance interval specifications refer to time or quantities.
Product life in units	Defines the lifespan per Production UoM of the assembly to be produced.
Cost Element	Cost element to which the tool costs should be written in the calculation and costing analysis.
Surcharge MargCost	Determines the marginal cost rate per "Cost per".
Full Costs %	Determines the full cost rate per "Cost per".
Maintenance costs / per	Refers to "Maintenance Costs". Defines the factor that the maintenance costs refer to.

Default time tab

This tab is only visible if **General tab > "Defines lead time"** radio box was activated.

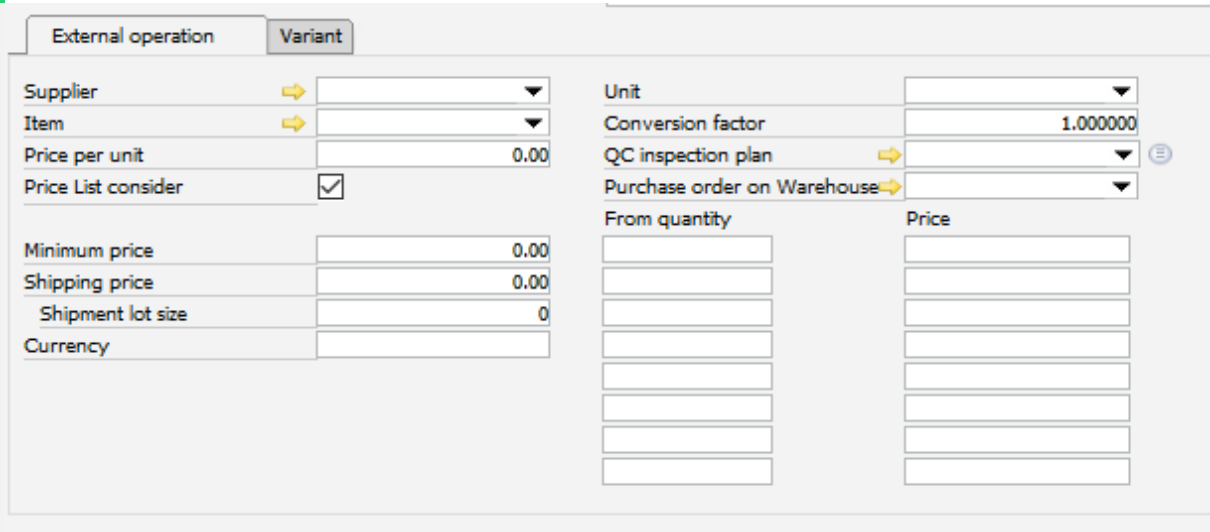
See field descriptions in **Routing > General tab**.

See Tool Administration

© 2026 Boyum IT Solutions A/S

5.2.1.4.2 External Operation

PATH: Sales A/R > Precalculation > **Open** Precalculation > "**Create Operation**" function > External tab



Window pk_arbplanos.psr

The "External Operation" tab is only visible if an external operation has been selected as a resource. An external operation can consist of a pure service (the entry is then on this page only) and / or possess a proprietary throughput time and debit the capacity of a resource, as well as allow costs to arise (entry in General tab)

For further information ***See*** External production.

Field	Description
Supplier	Default supplier Assign the supplier linked to this external operation If specified, it is loaded by default in purchase orders or quotations. Pricing considers the special price list of the supplier if no price was specified for unit price. Suppliers are available depending on settings "select supplier" Clicking on the will open the Business Partner Master Data window. Note: By default, Beas allows to predefine an item for purchase order creation. If the field is filled, it is protected in the purchase order.

© 2026 Boyum IT Solutions A/S

Field	Description
	Pricing depends on **Production > External production > Purchase and provision.** - Pricing for purchase - supplier selection - consider special price list
Item	Assign a non-warehouse item to manage all external operation transactions like purchase orders. If no unit price is specified, pricing is carried out for this item. Clicking on the will open the Item Master data window. Specify service item Only non-inventory-managed items are used for purchasing a service. No material is posted except when provision parts are used. Pricing: ***See*** Pricing for purchase. In purchase, the unit of the item is used. Note: The system ignores UoM Group definition of this item. It is always allowed to choose any UoM for the routing position.
Price per unit	Set the price for purchase orders. Service price per price factor. ***See*** Pricing for purchase.
Price List consider	Check box. Allows Beas to consider pricing, extended price lists, special price lists and blanket orders. ***See*** Pricing for purchase.
Price factor	Include a factor to be used according to the price per unit defined. **Note**: If "Price list consider" is enabled, "Price factor" is hidden, as prices in price list are always stored per Inventory UoM of the service item.
Minimum price	Set a minimum price for the purchase order If the total unit price is below the minimum price, the value specified here is used. ***Example***: €10 € per 1000 units, minimum €30.

© 2026 Boyum IT Solutions A/S

Field	Description
	For 1000 units €30 is calculated (minimum price). For 10000 units €300 is calculated (unit price higher than minimum price).
Shipping price	Transport surcharge Set the transportation price to be included in the total price. Payable per transport lot size. ***Example***: €10 € per 1000 units, minimum price €30, transport price €100, lot size 5000 1000 units are €30 + €100 transport price = 130 € For 10000 units: €300 € €200 € transport price (2 x lot size) = €500 .€
Shipment lot size	Set the lot size that can be shipped. ***See*** transport price. ***Example:*** 10€ per 1000 units, minimum price 30€, transport price 100€, lot size 5000 1000 units are 30€ + 100€ transport price = 130€ For 10000 units: 300€ + 200€ (transport price x 2 lots) = 500€
Currency	Specifies the currency in which the amounts are expressed. If no currency is used, the local currency is used.
Cost element	Change the account in which the standard costs from the external operation is booked. If a cost element is stored, and in the cost type an account is stored, costs arising at goods receipt are booked to the WIP account. ***See*** External operation goods receipt, Cost types.
Unit	Unit in which the purchase is registered Usually you purchase in units of the service item as prices are stored in this unit. ***See*** next Field description in this table titled "Conversion factor".
Conversion factor	Conversion factor between time receipt unit and assembly unit In the purchase the warehouse unit of the service item is usually indicated. There you can define the conversion factor between consumption unit of the item to be produced and the warehouse unit

© 2026 Boyum IT Solutions A/S

Field	Description
	of the service item. ***Example*:** Production UoM of the assembly: `pieces` Inventory UoM service item: `kg` Conversion factor: `3` For a requirement of `60 pieces, 20kg` of service items `(60 : 3)` needs to be purchased. **Note:** By default, Beas allows to predefine a conversion factor for purchase order creation. If the field is filled, it will be protected in the purchase order. For more Information ***See*** Collective Purchase Order – Quantity.
QC-inspection plan	Define if this external operation has to be inspected by the quality control team when producing the item or performing the task and link to stored QC-inspection plan. Clicking on the opens the the editing screen of the selected plan, and clicking the opens the list of QC inspection plans.
Purchase order on Warehouse	Define the warehouse for purchase order. If you create the purchase order, the system takes this warehouse for the purchase order. This is the own warehouse for the invoice or/and ship back warehouse. For more Information ***see*** Collective Purchase Order.

Additional fields in Precalculation

Warehouse	Determines the warehouse of the service item. This is required for pricing, if you work with "price per warehouse".
from Quantity / Price	Only visible if "consider price list" was activated. Up to 4 quantity-dependent prices can be entered. Quantities are given in units of the service item.

© 2026 Boyum IT Solutions A/S

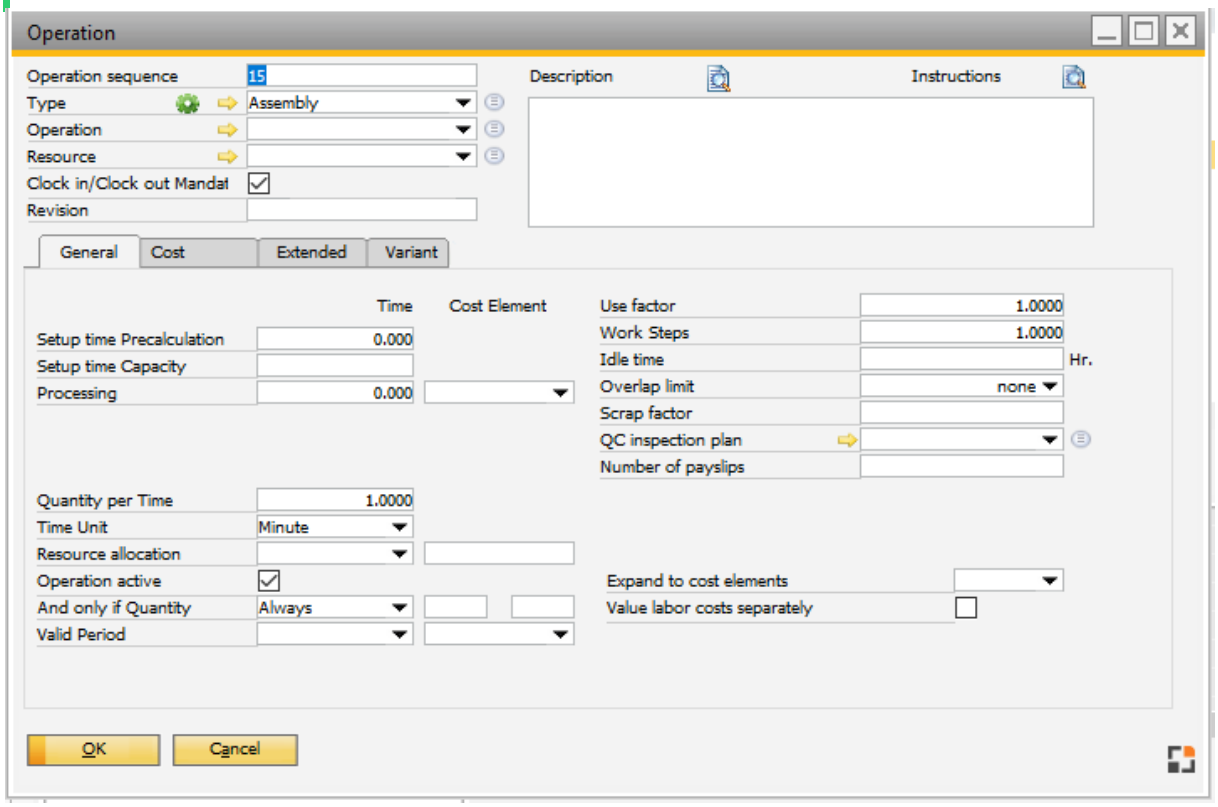
See

Collective Purchase Order

5.2.1.4.3 General

In this tab you can perform general settings for an operation position in Precalculation.

PATH: Sales A/R > Precalculation > **Open** Precalculation > "**Create Operation**" function > General tab



Window pk_arbplanos.psr

Field	Description
Setup time	Setup time for Pre- and post-calculation The setup time in hours or minutes is taken into account in production and costing analysis as well as in Precalculation. Note: Designation can be changed in Configuration wizard – Resource –

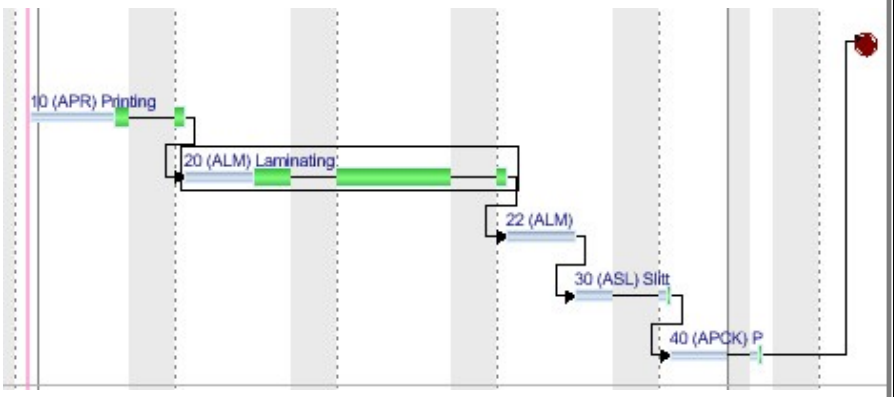
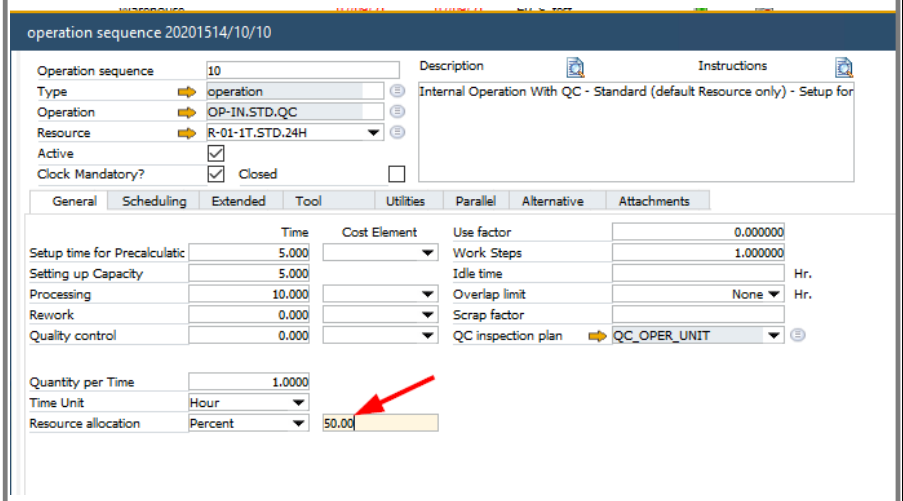
© 2026 Boyum IT Solutions A/S

	Definition Time types. **Precalculation and Lot size** Setup time is calculated per calculation lot size. ***Example:*** Lot size 10, setup time=5 minutes, calculated: 19 pieces Result: total setup time 10 minutes or 0,52 per piece If a sub-assembly has its own calculation lot size, it will be taken into account. ***See*** Precalculation – View and lot size. **Production and lot size** If a work order is created automatically (e.g. via order recommendation report or sales order to work order, a separate work order position per item-lot size is created. The setup time indicated here refers to the lot size in item master. **Separate reporting of setup times** If "Extend to cost elements" was set to 2 or more in the Resource, the setup time can be reported separately via FDC and evaluated separately in calculation. Enter the cost element to which the accrued costs are posted.
Setup time Capacity	The set-up for scheduled capacity in hours or minutes is considered in capacity planning and throughput time calculation. This setting has an effect on calculation of target time.
Mach+Labor Time/unit	The actual processing time per work step. The field designation can be changed in **Configuration wizard > Master Data > Resources > Time types** or via Ctrl+ double-click in the text field. Times are specified in units "Times in ..." (hour/minute) and refer to "Times per .. " finished parts taking account of the utility and work steps in units of usage of the assembly. The Cost Element field specifies the cost element for which the planned or accumulated costs should be totaled, facilitating detailed analysis. Tools that determine the throughput time and also alternative operations

© 2026 Boyum IT Solutions A/S

	can only influence the job time (processing time). ***See*** Calculation of planned time.
Secondary, main time	Secondary time and main time. In addition to the job time, two other secondary processing times can be specified if "Extend to cost element" is set to 3 or 4 in the resource. The secondary processing times are designated in Configuration Wizard or via Ctrl+Double click in the text field. ***See*** Concept Time types.
Quantity per Time	Determines the assembly quantity the time refers to. Enter to which assembly quantity (Production UoM) the time refers to. Thus you can indicate even short lead times correctly. ***Example:*** Lead time 0,0001 minutes per piece To make it more readable, you can enter 1 minute per 10000 pieces If it is a fixed time, enter 0 at "quantity per", that means this time is needed only once per lot size. Same effect as for setup time. ***Example:*** Lot size 10 Production 50 pieces Time = 2 Minutes per 0 Total time: 5 lot sizes a` 2 minutes = 10 minutes **Fix Quantity: Quantity per Time = 0** This means you need the time per lotsize ***Example***: 3 Minute per 0, you produce 100 Pcs. The System calculates 3 Minutes for all 100 Pcs. For additional information on lot sizes ***see*** Precalculation – Display and lot sizes.

© 2026 Boyum IT Solutions A/S

Time Unit	Unit of time in which times are stored – hours or minutes. The default can be stored in the options.
Resource Allocation	The extent of utilization of a resource. Determines the utilization of the available resource capacity.  ***See*** Default Calculation type: Reallocate forward.  **Type** / **Description** Number: Number of resources used (subject to the prerequisite that the resource exists more than once, e.g. if the resource is a group of persons. Where 2 is input for 5 persons, the resource of 2 persons is scheduled at most. Note: If this is not 1, the system uses the calculation method Exploit Full capacity for this routing position. Percent: Percentage utilization of the resource.

© 2026 Boyum IT Solutions A/S

Type	Description
	Example 1: Group of 6 persons. At a utilization of 50% the resource of 3 persons is used at most. ***Example 2***: Machine which is only partly utilized. To extend the throughput time, a lower utilization can be specified here. If 20% is specified, throughput time is quadrupled while costs remain the same. Note: If this is not 100%, the system uses the calculation method Exploit Full capacity for this routing position.
Simple	Default setting: For "Simple", only one resource is 100% utilized.

Note:

For Detailed planning (i.e. a resource should be planned to the minute) the option must be set to "Simple".

Operation active

Determines whether the operation is active and can be used

You can set here whether the operation should be included. Apart from Yes/No, a condition is also possible, such as production quantity greater, in between or smaller than a specification defined here.

Example: The operation in which a small machine has been defined should only be used when the production quantity is smaller than 30. If it is greater, an operation should be used in which a large machine with a respectively higher set-up time but smaller mach+labor time is stored. Quantities refer to "per units of usage" of assembly.

Note: This switch is only visible if in the Configuration wizard – Routing – Operation field show is activated.

Operation catalog:

In operation catalog this field is not available.

Routing:

In routing it can be set up depending on the quantity:

© 2026 Boyum IT Solutions A/S

Yes: Always active.
No: Not active.
Quantity bigger: Only active if quantity exceeds the given value.
Quantity smaller: Only active quantity falls below the given value.
Quantity between: Only active if the quantity is between two given values.

Thus you can activate a routing depending on the quantity.

Example:
Depending on the quantity, a certain resource is to be used.

until 10 kg (active quantity < 10 kg): Resource "small bowl", planned duration: 10 minutes
from 10 kg (active quantity > 10 kg): Resource "big bowl", planned duration: 20 minutes

Field description
The value is saved in `aktivformel` with the following configuration `Id=Value1=Value2`
G = "Quantity bigger"
K = "Quantity smaller"
Z = "Quantity between"
N = "Not active"
J = "Active" (Default)

If the field is empty, the entry is treated as active.
Example: Only active for quantity between 10 and 20 "`Z=10=20`"

Note regarding variants / formulas

Only the following values may be returned here if a formula has been stored via the – icon: Y for "Active" or N "Not active". "bigger", "smaller" or "between" are not allowed via the formula system.

Generate Work order

© 2026 Boyum IT Solutions A/S

By defining value "N" in the formula, the system does not insert the routing position in the Work order. This is to be activated in **Configuration wizard > Production > Create >** Apply inactive work order sequence.

Generate Precalculation

In Precalculation the system always transfers inactive routing positions. *(beas 9.3 PL 2)*

Generate new Item (Product Configurator)

By defining the value "N" in the formula, the system does not insert the routing position in the Work order. This is to be activated in **Configuration wizard > Production > Product Configurator >** Apply inactive work order sequence *(beas 9.3 PL 2)*

Active field as Script

If you click in field Pos on – icon, you can define all fields with `setvar=e_[fieldname]=value`

If you want to disable a routing position, use the following script: `setvar=e_aktiv=N`

With *beas 2020.02* the Variable "`e_aktivformel`" is not supported.

Pre-calculation

In Precalculation there is an active-field and an "only if quantity" .... The second field has the same meaning as in routing. The operation is only active if the condition is met.

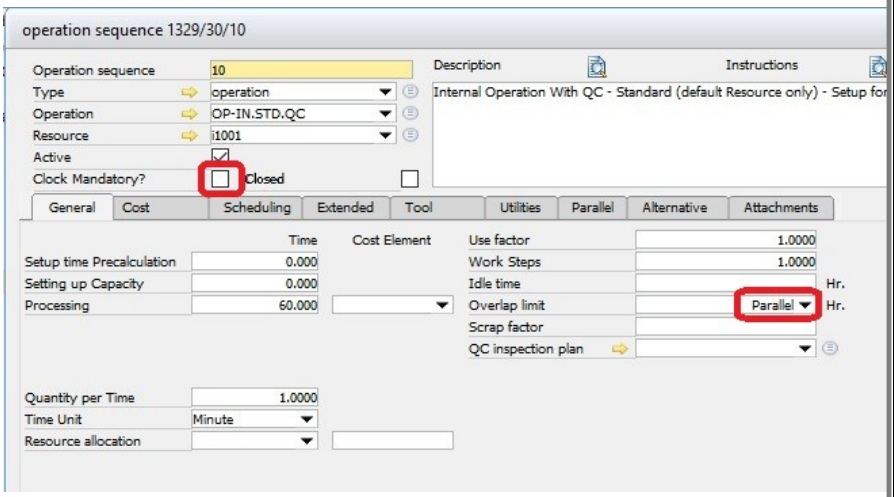
Work order

Only active routing positions are transferred to the work order. If you make a selection in the Configuration wizard to accept inactive routing positions as well, these will be transferred to the work order, and deactivated.
You cannot log on to these operations and they do not cause time

© 2026 Boyum IT Solutions A/S

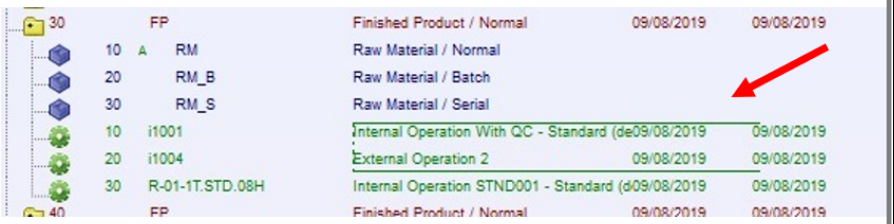
	demand. This switch can be disabled manually.
Valid Period	In Precalculation Operation: Select the From - To dates of a validity period.
Use factor	Determines the use factor of the operation If several parts are produced with only one work step, the use factor is higher than 1. ***Example*** Cut a plate with a saw Duration: 1 minute Result: 2 plates, per 1 plate, only 30 seconds are required. Use factor in this case:2 ***Example 2:*** Injection molding with 12 nozzles. One process creates 12 parts, the use factor is 12 in this case. ***See*** Calculation of planned time.
Work steps	Works opposite to the use factor. Define how many work steps are needed for one part If several steps are needed to finish one part you can enter the number here ***Example:*** Tighten 10 screws. Per screw, 15 seconds are needed. Piece time is `15 seconds` Work steps `10` Total time `15 * 10 seconds = 150 seconds` ***See*** Calculation of planned time
Idle Time	Idle time in hours in which the semi-finished part must not be further processed, e.g. drying time, cooling etc. `|--- Transfer time --| |-- Planned time --| |--- Idle`

© 2026 Boyum IT Solutions A/S

	time---| The resource is available at this time for other orders. There are no arising costs . Forward Scheduling: The next sequence of operations can begin only after the idle period. The idle time should not be used for the extension of lead times. It is recommended to use transit time (***see*** resources). By default, factory calendar and resource calendar are not considered. These can be taken into consideration by changing the settings in the Configuration wizard.
Overlap Limit	The overlap time to the next operation is stored in hours. By using overlap settings, you can define the delay for the subsequent work sequence or define to start it in parallel. Unlike parallel resources, the subsequent work sequence can be moved freely. You can define the overlap limit in **Routing position > Overlap limit**. Choose "Parallel", "No" or insert the number of hours/minutes manually. If this is defined in Position 10, the next position will be parallel. This means: "Clocking mandatory" must be disabled, because you can start with Position 20 before closing Position 10.  *Window fert_arbplanos_edit.psr*

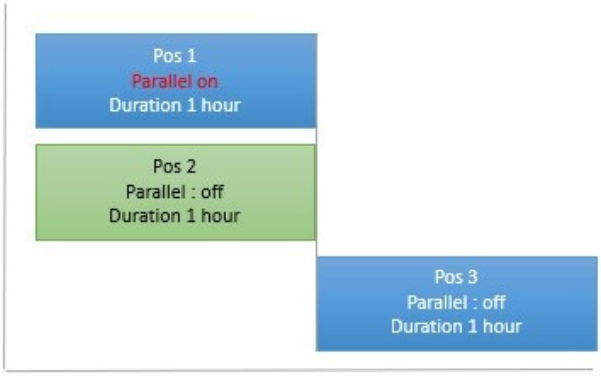
In Item Structure view you can see parallel / overlap limit information in this way:

In this example in Position 10 the "Overlap limit" is defined:

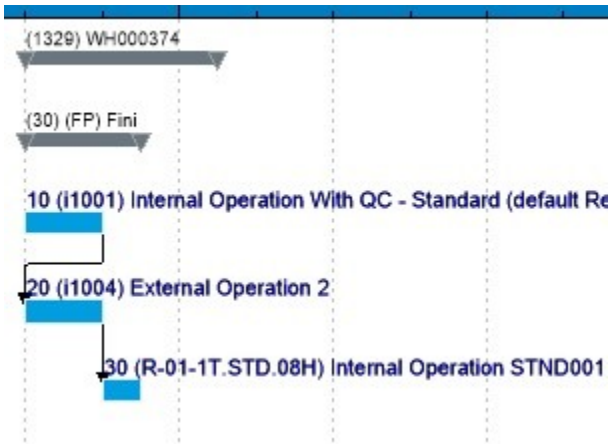
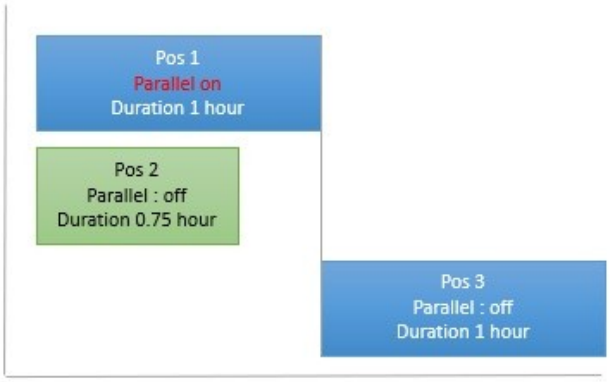
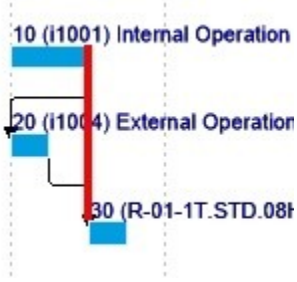


Note:

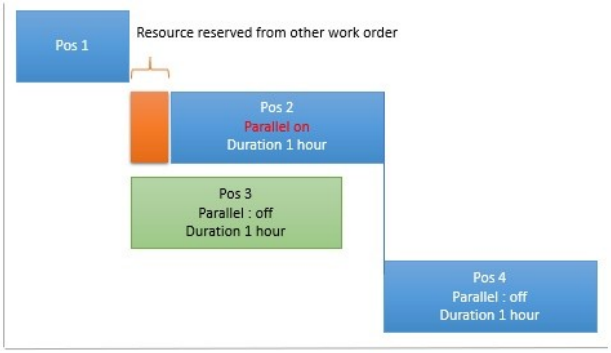
Overlap calculation runs correctly only with forward calculation.

Value	Meaning
0	No overlap.
Parallel	Next Routing position will have same or next possible start date Forward calculation The earliest start date of the following operation can be the same as the first one or the next possible start. The next possible start may also be earlier than the one of the previous operation. ***Example 1 :*** Pos 1 is defined as parallel, so Pos 2 can start parallel to Pos 1 

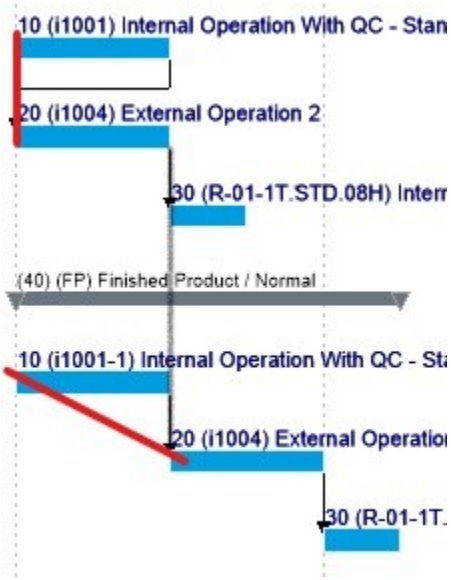
© 2026 Boyum IT Solutions A/S

Value	Meaning
	View in Beas  Start of 3. routing position is after the end of the latest parallel routing position. ***Example 2***: Pos 2 needs less time than Pos 1.  View in Beas  Start of next routing position is always after the end of the latest parallel routing position.

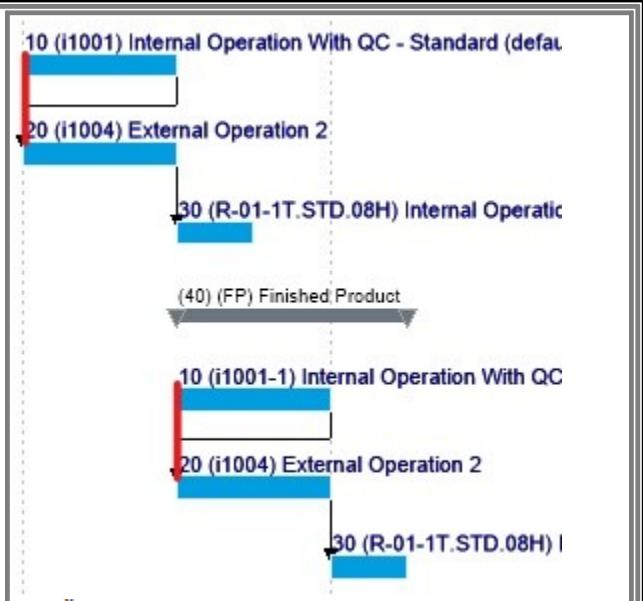
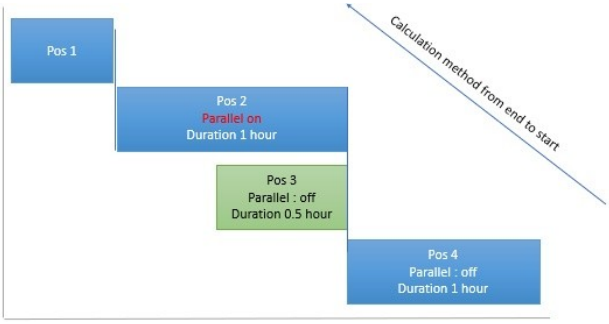
© 2026 Boyum IT Solutions A/S

Value	Meaning
	Example 3: *Scenario:* Position 3 is parallel to Position 2, but after Position1 finishes, resource for Pos 2 is not available. For example Resource is reserved by another work order. If the resource is not available immediately, the routing position starts at the next available time. In this example, the position 3 can start **BEFORE** the first position:  ***Example 4:*** Scenario: 2 work order positions. Both WOs have defined the 2. operation as parallel. Start date is same. First operation has different resource, but the second parallel operation has same resource for both WOs. Explanation: The parallel resource uses the start date, on which the resource is free. For the first WO this is the time when operation 1 starts. In the second work order position you see that the start date of second operation does not start together with the first operation. The reason is that WO 1 already occupies the

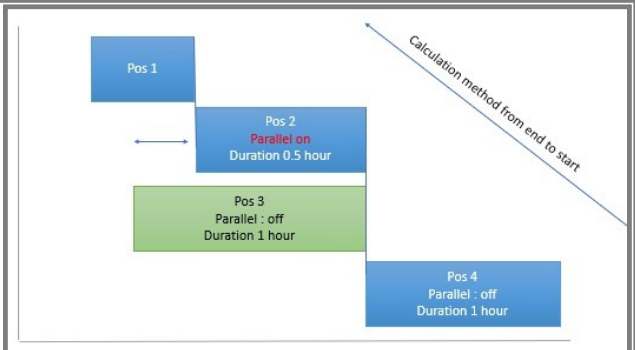
© 2026 Boyum IT Solutions A/S

Value	Meaning
	resource. So the second operation of WO can only start after the operation 2 of WO 1 stopped. In that case the the second operation does not start parallel but delayed:  You can set parallel-defined operations to always run in parallel in the Configuration wizard. Result with setting "Overlap limit = fix" Start date of Pos 40 on Resource i1001-1 start later, because the next resource i1004 is not available before.

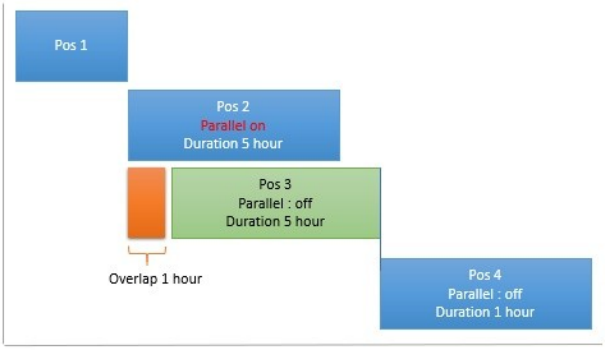
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 ***See*** APS fix parallel routing positions Backward Calculation The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration. Parallel resource: The system calculates the following:  If duration of Pos 2 is less than that of Pos 3, then Pos 1 ends with the start of Pos 2.

© 2026 Boyum IT Solutions A/S

Value	Meaning
	 In this case, the system is working different from forward calculation. If you work with backward calculation, the first parallel position must have the longest duration. Differences between parallel resource and parallel operation Parallel resource: - is always parallel - 100 % - Parallel resource have always same start / end time - Use Parallel resource, if you don't need this resource 100% (Example: A worker is the "parallel resource", but is working on 4 machines in parallel. In this case he must invest only 25% for his time for this operation) Parallel Operation: - is not always parallel. Only if the resource of parallel operation is available - can have different work time - can work with resource optimization - can have own parallel resource, tools and so on
> 0 Overlapping	Overlap of the following routing position or assembly if it is the last routing position. Forward Calculation

© 2026 Boyum IT Solutions A/S

Value	Meaning
	The Overlap time define, when the next operation can be started. The time, which you define, is the delay in hours/minutes, until the next operation starts. The defined time is the earliest time. **Example:** 2 hours means, the next operation can start - 2 hours after start current operation or after end of this current operation (if the current operation is less than 2 hours) - if resource of next operation is not available after 2 hours, then at the time, when the resource is available. **Example:** In this scenario the start date of the third routing position is the real start date of the second routing position + defined overlapping time in hours, here 1 hour.  An overlap is specified in hours – based on a 24-hour day. The specified overlap always applies to the following routing position. The overlap time is not bound to a resource calendar. This is purely hour-based time excluding time reservations or other factors.

© 2026 Boyum IT Solutions A/S

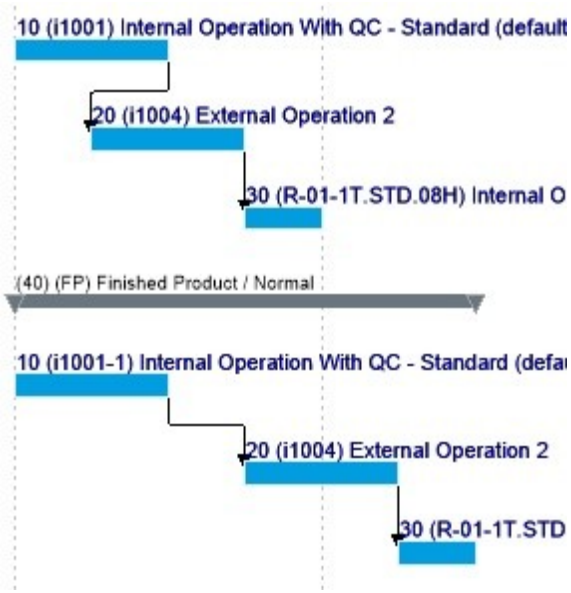
Value	Meaning
	The overlap time begins AFTER the transit time. The next routing position cannot possess a transfer time, otherwise it will be appended to the transfer time.

Example:

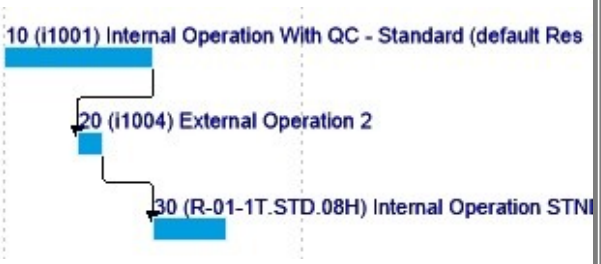
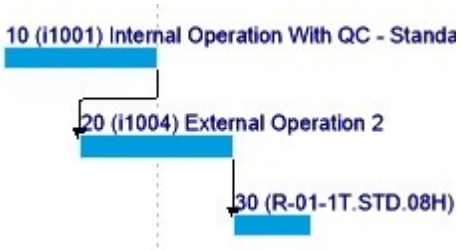
Scenario: 2 Work orders, same routing plan. In first operation different resources. Overlap limit = 0.5 hours

First work order: Position 20 start 0.5 hours after start of position 10

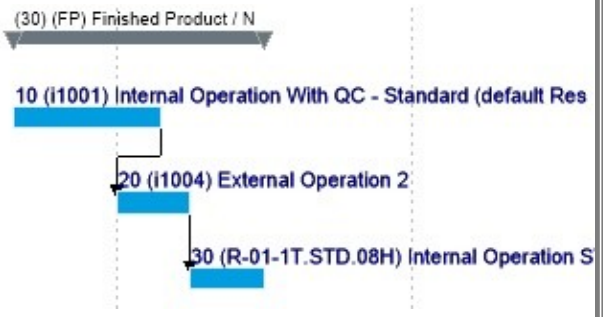
Second work order: Position 20 start later, because the time is reserved from first work order



© 2026 Boyum IT Solutions A/S

Value	Meaning
	If you want, that the overlap have always exact the same overlap time, a setting is available. ***See*** Configuration wizard ***Example:*** Scenario: Work time of second work order position is less than the work time of the first operation. In the first operation, overlap time is defined:  In this case you're ready with second routing position before you're ready with first routing position. But you can start with third routing position only, if all parallel / overlapped routing positions are done. In this case after end of Routing position 10. Backward calculation In a simple example the result of backward calculation is same as forward calculation Example: Work time 1 hour, overlap 0.5 hour in first operation  But is the duration of second operation is not same as first operation, then the result is different

© 2026 Boyum IT Solutions A/S

Value	Meaning
	to forward calculation: The system calculate backward: First 30, then 20 - from 20 the overlap is calculated (Start time from Operation 20 + Overlap time from Operation 10 = End time from Operation 10.  Alternative for backward calculation is "forward late as possible" Note: The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration.

Note:

The last operation corresponds to the last "reportable operation".

If an overlap is also configured in the last operation, Beas does not recognize this as the last operation.

However, the automatic assembly receipt or adjustment of the backflushed material depends on this.

Overlapping using assemblies

Assemblies can also overlap in an order-related structure.

Example:

```
        |- Main assembly -|
|--- Subassembly -|
```

© 2026 Boyum IT Solutions A/S

	Start date of the main group is normally the end date of the last routing position of the subassembly. If this last routing position has an overlap, this is also considered. ***Important***: If an overlap is entered in the last routing position, it is no longer recognized as the "last routing position" in the backflushed posting transactions.
Scrap Factor	Scrap factor related to this routing position in % In this field an additional Scrap factor on routing position level can be defined. This is calculated as (Mach+Labor) / 100 * Scap Factor Example: Production 8 Pcs Setup Time = 60 Minute Labor Time = 10 Minute Scrap Factor = 5 % Total Time = 60 + (8 * 10) + (8 * 10 : 100 * 5) = 144 Min.
QC Inspection Plan	Store a QC-inspection plan in operation If a QC-inspection plan is stored, – depending on the settings – a QC order will be created. ***See*** Configuration wizard Measured values can be registered via QC-order, Terminal or WEB-Apps. If respective rules are defined, the release of the next operation may depend on that. ***See*** Configuration wizard – FDC – login rules ***See*** QC-inspection plan Quality control order
Number of payslips	Information field – if applicable, for information on number or pay slip

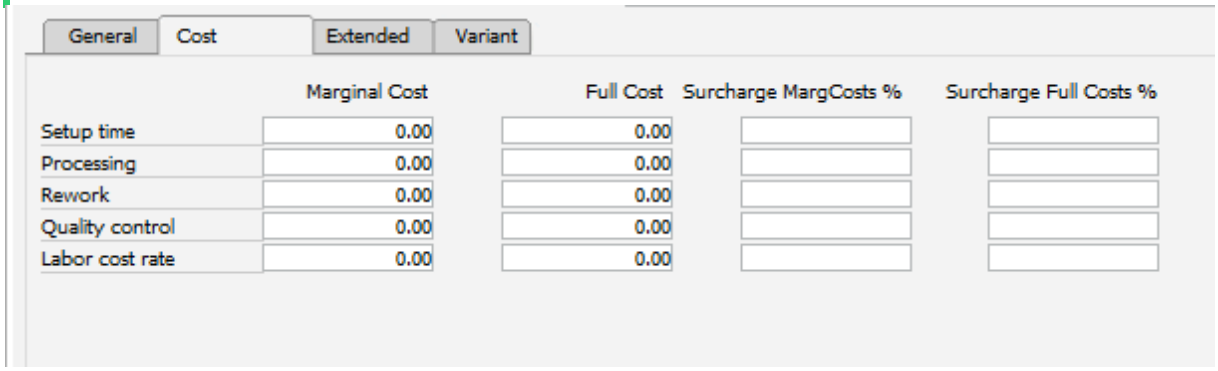
© 2026 Boyum IT Solutions A/S

	printouts.
Expand to Cost Elements	In Precalculation Operation: Select the number of cost rates. The default is one cost element (processing time), which can represent a mixed calculation of machinery and personnel costs. Select the number of cost elements you are to use in Precalculation, update the window, and the selected cost elements appear in the Costs tab. ***See*** more details in Costs.
Value Labor costs separately	In Precalculation Operation: If this option is activated, a separate cost rate can be stored for personnel costs and the "Labor cost rate" field appears in the Cost tab. ***See*** also Costs.

5.2.1.4.4 Cost

In this tab you can define Marginal and Full cost of the cost elements selected in the General tab. You can also provide the surcharge marginal cost rates and surcharge full cost rates per each cost element.

PATH: Sales A/R > Precalculation > **Open** Precalculation > **Create Operation** function > Cost tab



Window pk_arbplanos.psr

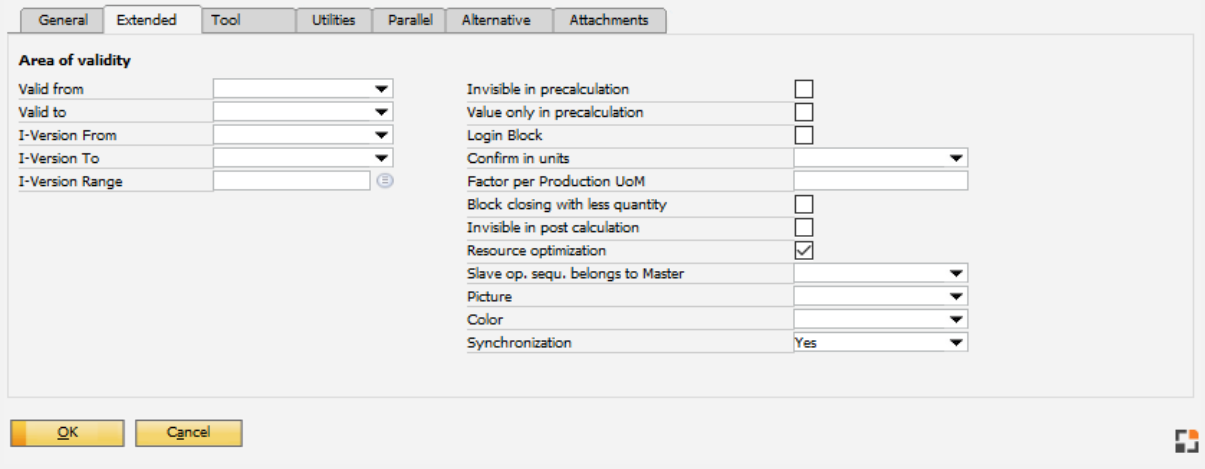
See Concept Marginal Costs and Full Costs.

5.2.1.4.5 Extended

In this tab you can perform extended settings for an operation position in Precalculation.

PATH: Sales A/R > Precalculation > **Open** Precalculation > "**Create Operation**" function > Extended tab

© 2026 Boyum IT Solutions A/S



Window pk_arbplanos.psr

Field descriptions

Field	Description
Valid from / to	Define the Valid Date Area. If no date was entered, it is valid always, otherwise only in the specified period. **Precalculation:** Precalculation date serves as reference. In Precalculation, all BoM positions are displayed but only the valid ones are valued. **Production** Depending on **Configuration wizard > Production > Capacity planning > Default calculation method** Calculation backwards: Delivery date serves as reference. It is checked only at work order creation. If the delivery date is changed subsequently, there is no second check as long as the work order is not updated. Item-Processing time: The Delivery date of the respective assembly serves as reference. The item-processing time of the respective assembly will always be used for the calculation of the completion date of a sub-assembly *(beas 9.1 PL: 08)*.

© 2026 Boyum IT Solutions A/S

Field	Description

	Creation via ue_api_wo
	The parameter "validdate" can be defined additionally, if the work order will be created via the API. *(beas 9.1 PL: 08)*
	`declare=wo=ue_api_wo`
	`wo=set=validate=<mydate>`
	`// .. normal script to create or refresh a work order`
	
	Sales order in Order recommendation
	At breakdown of the assemblies the delivery date of the sales order is used, minus the average delivery time, stored in the Configuration wizard.
	
	Special case: **Configuration wizard > Production > Capacity planning > Default calculation method = Default calculation method**
	The calculated date of requirement of the respective sub-assemblies is used as reference date for sub-assemblies.
	
	Example 1
	A supplier changes the item number from a given date
	Pos 10: previous item number until date x
	Pos 20: new item number from date x+1
	
	Example 2
	At date x additional material is required.
	If larger changes are needed, we recommend to use item version control.

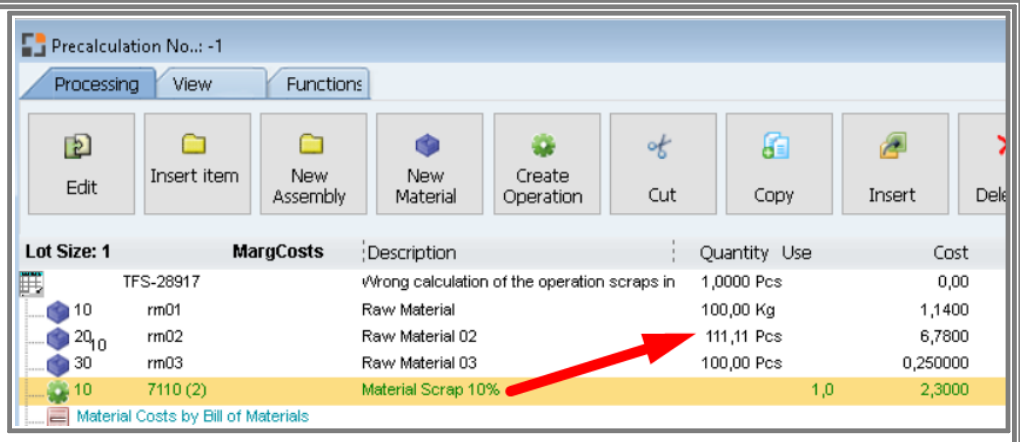
I-Version From	Field used to select the first I-Version to be taken into account in a range.
I-Version To	Field used to select the last I-Versions to be taken into account in a range.
I-Version Range	Field used to select the specific I-Versions to be taken into account. Clicking on the will open the Multiple selection window to choose several versions.
Scrap of Material %	Material scrap % In **Routing position > Extended** you can define the Scrap of Material related to a

© 2026 Boyum IT Solutions A/S

Field	Description
	routing position. ***Example:*** You must produce and fill 6 kg of paste. 15% is lost during filling. Now you must calculate how many liters of paste are needed. **Calculation** Correct formula is: Quantity: (100 – Scrap %) * 100 If you need 6 kg of finished product, you need 6 kg : (100 - (0.15) * 100 = 7.059 kg paste If you see the opposite: I fill 7.059 kg paste and lose 15% = 7.059 - (7.059 / 100 * 15) = **6 kg** In the **Configuration wizard >** "Behavior for Routing Scrap of Material % affects" you can define how the program should work. The "Exceeding planned quantity allowed" affects BoM position - material scrap: The Minimum/Maximum percentage is calculated based on total quantity. ***see*** Configuration setting. The following settings are available: Only the linked material is affected by the Scrap % setting Result see this example:

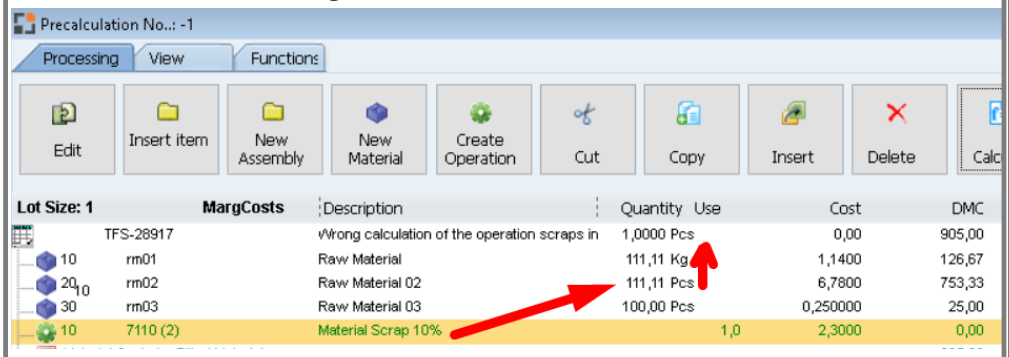
© 2026 Boyum IT Solutions A/S

Field	Description

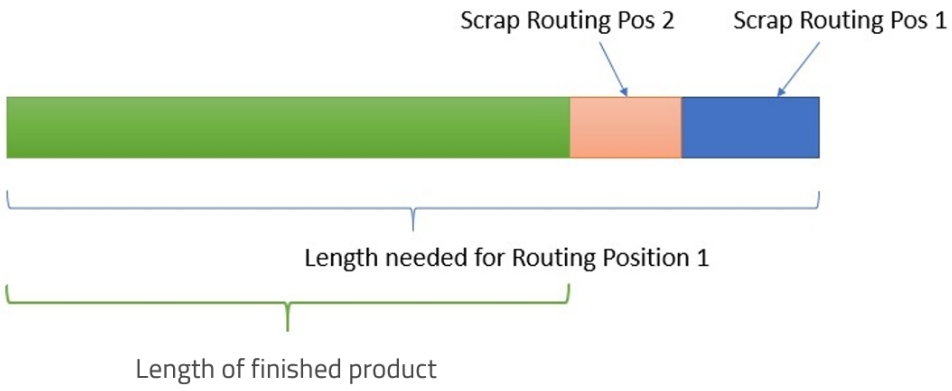


All materials under the last linked materials are affected

This is the Standard setting



Example: When a bar is sawed, a scrap rate of 10% may incur. If the material is ground, the bar becomes even shorter, that is a longer length must be cut beforehand,



Example:

© 2026 Boyum IT Solutions A/S

Field	Description

We need a finished product with a length of 250 mm.

We start with 308.65 mm - sawn : scrap 10% = 277.78.
Continue with 277.78 mm - ground : scrap 10% = 250 mm.

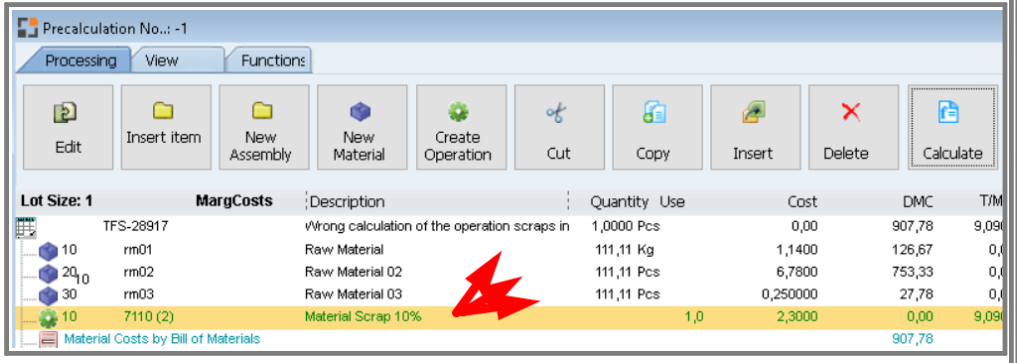
Routing Position	Material	Quantity	Scrap %
10 sawed	bar	308.65 mm	10
20 ground		277.78	10
30 QC		250 mm	

Calculation

Correct formula is: Quantity : (100 – scrap%) * 100

Position 20 we need 250 : (100 – 10) * 100 = 277.78
The value is entered into the production BOM item, column "calculated scrap" as fix value.

All materials are affected by the Scrap % setting



Notes:

- This field is only visible when the parameter in **Configuration wizard > Master data > routing > "operation related material scrap**" is enabled.
- The Item Report – Item Structure report does not support Material Scrap factor on Routing Level.

© 2026 Boyum IT Solutions A/S

Field	Description
	• Enable this option only if absolutely necessary; the computation will take considerably longer. • In Work orders this field is blocked, because scrap of material is determined only at the moment of creating the work order. • When checking which routing positions are considered, the following criteria apply: - Validity date - Active (no formula, no quantity check) - Variants (A–Z) Not checked: - Variants formulas, Product configurations
Personal allowance %	Define the rate of personal allowance. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Recovery time %	Define the rate of recovery time. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Efficiency Rate %	Define the rate of Efficiency rate. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Invisible in Precalculation	Control the visibility The position is inserted in the calculation but not valued and also not displayed, i.e. these are available here but completely invisible. Creating a work order from calculation, this operation will be inserted. Different behavior applies to "blocked operations". These are not included into the work order. *Field in Document: precalc_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 2* *Example:* *0*00000 = Pos 1 = 0 = Off *1*00000 = Pos 1 = 1 = On
Value only in	Control the Visibility "only in pre-calculation" If this option is active, the position is only valued in the Precalculation, but is not

© 2026 Boyum IT Solutions A/S

Field	Description
Precalculation	transferred to the work order and is also ignored in the scheduling function in the material requirements list. *Field in Document: workorder_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 2* *Example:* *00**0**000 = Pos 2 = 0 = Off* *01**1**0000 = Pos 2 = 1 = On*
Block Login	Block the login or receipt of order times If active, the affected resource is not reserved and a logon/logoff or time-related message of any type is blocked (the "Clocking mandatory" option must be deactivated). *Field in Document: workorder_lock* *Field in Database: BEAS_FTAPL.FLAGS, Pos 3* *Example:* *000**0**00 = Pos 3 = 0 = Off* *001**1**000 = Pos 3 = 1 = On*
Confirm in units	Confirm in Units Determines in which UoM quantities will be reported for this operation sequence via the terminal. ***Example***: Production Unit = kg Confirm unit = Liter, Factor = 1.2 If you create a time receipt with 1 Liter, you confirm 1,2 kg in production unit This is considered in Production Time Receipt External production - Collective Purchase Order.
Factor per Production UoM	Unit conversion factor Determines the conversion factor between time receipt unit and the production unit of the Assembly ***Example:*** Example: Production Unit = kg Confirm unit = Liter, Factor = 1.2

© 2026 Boyum IT Solutions A/S

Field	Description
	If you create a time receipt with 1 Liter, you confirm 1,2 kg in production unit
Block closing with less quantity	If active, the planned quantity needs to be posted If this option is enabled, the operation can only be completed with a time receipt if: - the full planned quantity was reached - the reported quantity of the previous operation (mandatory to report) was reached, the quantity is larger than 0 and the previous operation is closed. Note: The operation can be closed at any time. *Field in Document: workorder_minqtylock* *Field in Database: BEAS_FTAPL.FLAGS, Pos 4* *Example:* *000**0**00 = Pos 4 = 0 = Off* *000**1**00 = Pos 4 = 1 = On*
Invisible in post-calculation	Define the visibility on post-calculation. If active, the position is hidden in the post-calculation – for planned and actual cost calculation. *Field in Document: postcalc_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 5* *Example:* *00000 = Pos 5 = 0 =*
Resource optimization	Activate resource optimization. If enabled: If the stored resource is part of a resource group, at scheduling, the resource is automatically selected from the group with the shorted lead time. Note: Option can only be changed if the APS has been licensed. ***See*** Resource group Alternative Resources *Field in Document: resourcenoptimization*

© 2026 Boyum IT Solutions A/S

Field	Description
	Field in Database: BEAS_FTAPL.FLAGS, Pos 6 *Example:* *000000 = Pos 6 = 0 = Optimization is on* *000001 = Pos 6 = 1 = Optimization is off*
Slave op. sequ. belongs to Master	Define which operation is the master-operation for this operation It is possible to define a master operation. An order time receipt is done automatically on all operations if a quantity or time has been receipted via the master operation. Thus a receipt can be done for multiple operations at once. ***Example:*** Master-operation 10 Slave-operation 20 Slave-operation 30 If an order time receipt is done on master-operation 10, so is an receipt done on position 20 and 30, as well. Important: A concatenation of multiple operations is not possible, which means that a master-operation cannot be a slave-operation at the same time. **Notes:** Master-Slave operations are not connected to or affect parallel resources or parallel working. Not supported in WebApps and by the "Open QC Order after transaction" setting. **Master-Slave operations - time receipt creation** **IMPORTANT NOTE:** When the user defines Master-Slave operations when creating a Time receipt for a "master" operation, Beas first generates all Time receipts for the slave operations, and *then* the time receipt for the master operation. Due to this sequence, if something fails during the time receipt process of the master operation, the previous Time receipts are **not** rolled back.

© 2026 Boyum IT Solutions A/S

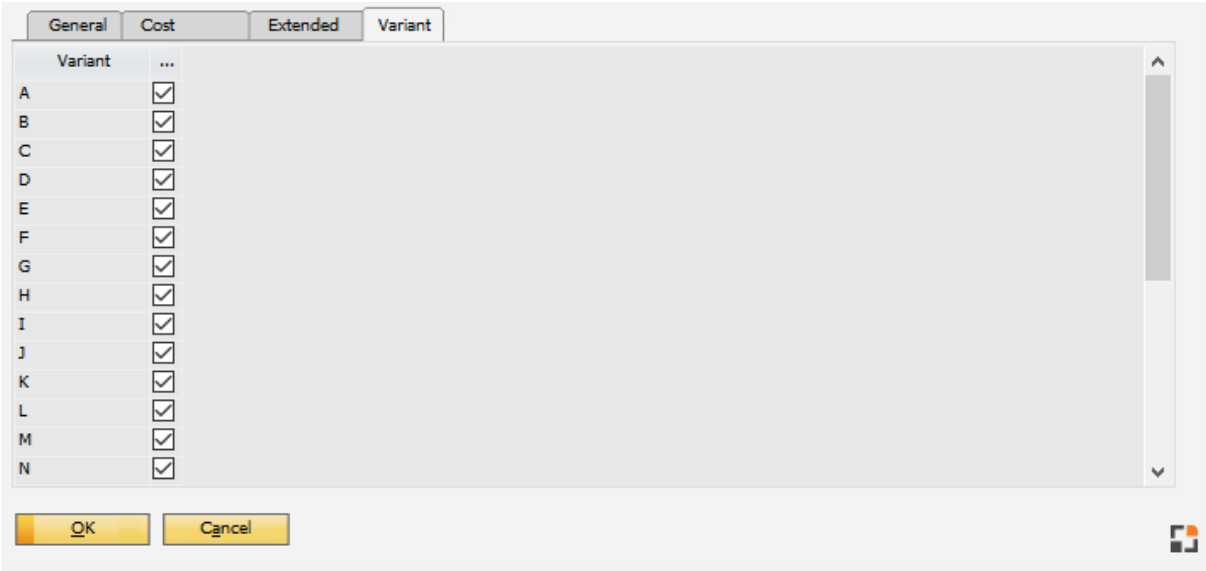
Field	Description
	Working with master slave ***See***: Configuration wizard - Master-Slave
Not selectable	Only operation catalog: If active, the entry is hidden and can no more be selected.
Image	Image for this operation, for better recognizability ***See*** Image selection.
Color	With this color the operation is displayed in all screens. ***See*** Color selection.
Synchronization	Determine the behavior at import At import or inserting a routing position, the routing is always deleted completely and re-imported. Use the settings to manipulate the behavior on routing position level. **yes:** Position will be deleted before the import **do not delete:** Position will not be deleted, but can be overwritten **no:** Position will not be deleted and cannot be changed.

5.2.1.4.6 Variant

In this tab you can select up to 26 variants of the item to be considered in the Precalculation process.
All variants are loaded in a Precalculation at all times. In the header of the calculation, the variant to be calculated currently can be selected. All BoM positions and routing positions not belonging to the currently selected variant are grayed out and not evaluated.
It is not possible to change Variant settings in the Precalculation.

PATH: Sales A/R > Precalculation > **Open** Precalculation > "**Create Operation**" function > External tab

© 2026 Boyum IT Solutions A/S



Window pk_arbplanos.psr

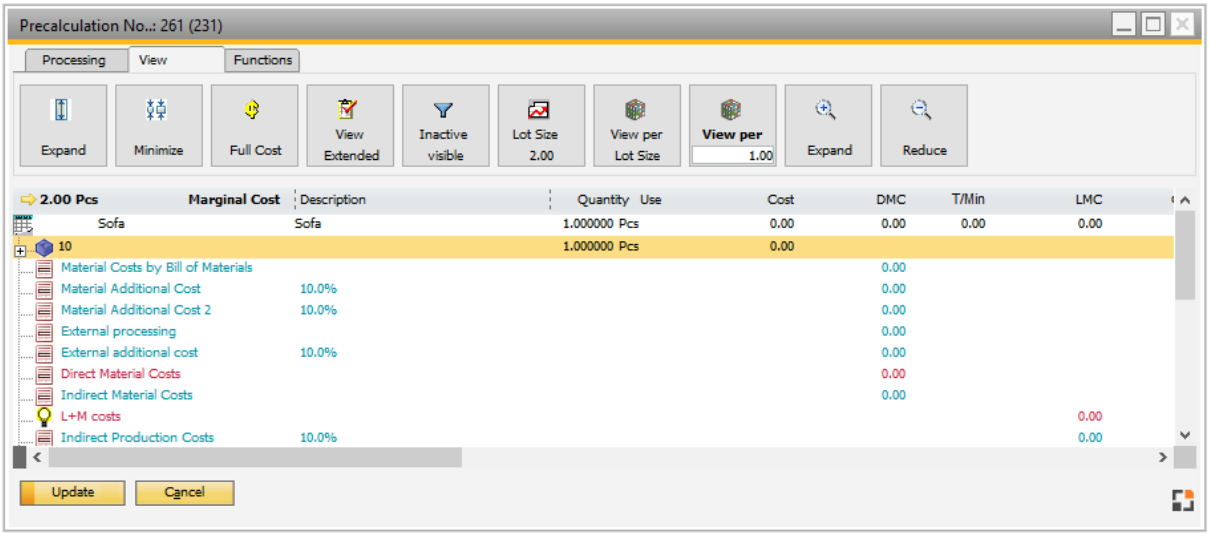
See also:

Variants production

5.2.2 Pre-calculation extended view

With the "Precalculation extended view", all results of the calculation schema can be displayed per assembly in a horizontal arrangement.

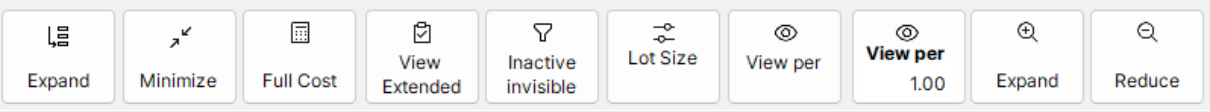
PATH: Sales – A/R > Precalculation > **Add** > select "View" tab. > click "View Extended" button.



Window pk_struktur.psr

© 2026 Boyum IT Solutions A/S

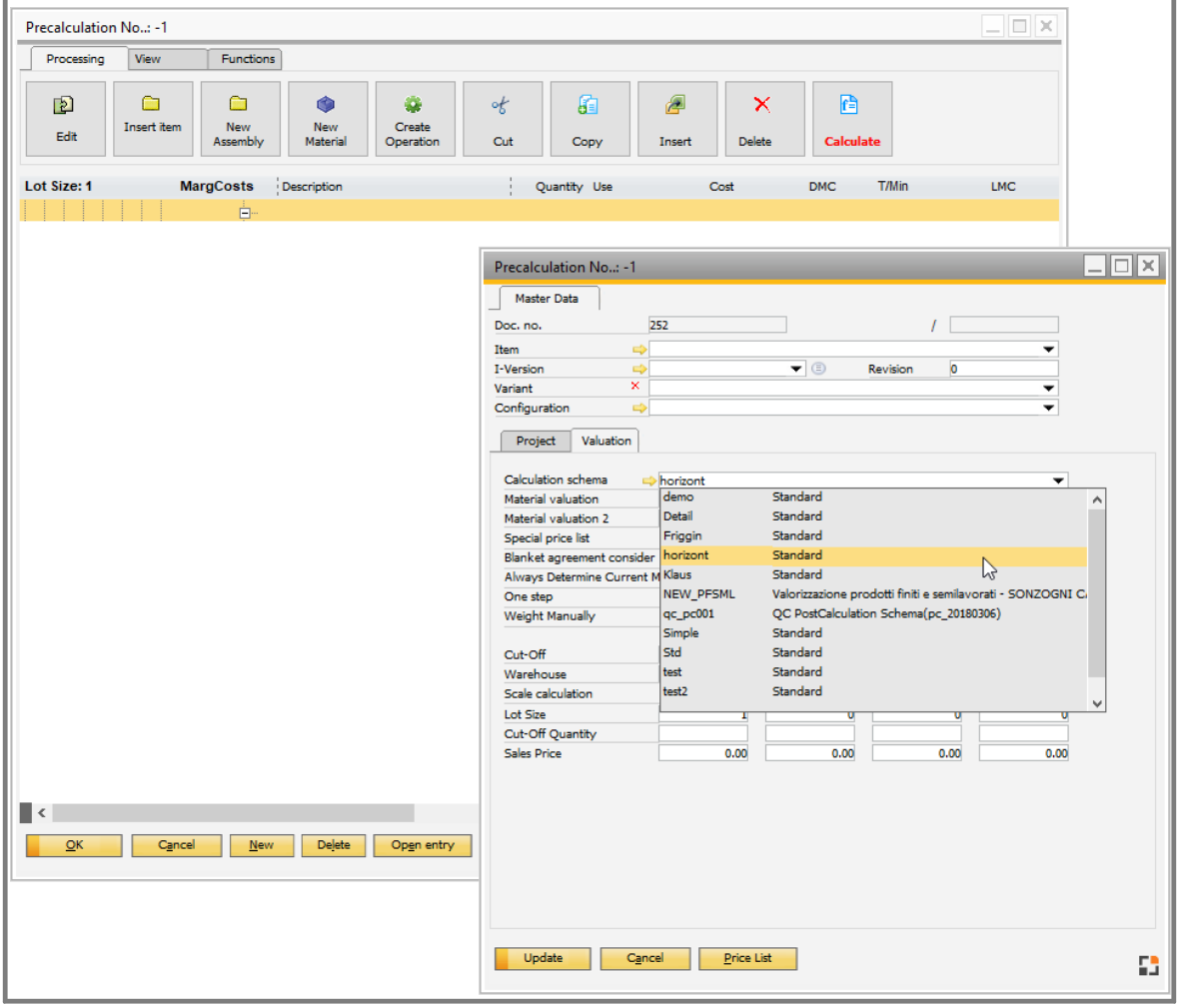
Top bar function icons in Boyum Style design:



To see the desired cost objects in the Extended view, the following steps are required:

1. Select a Calculation schema for the calculation.

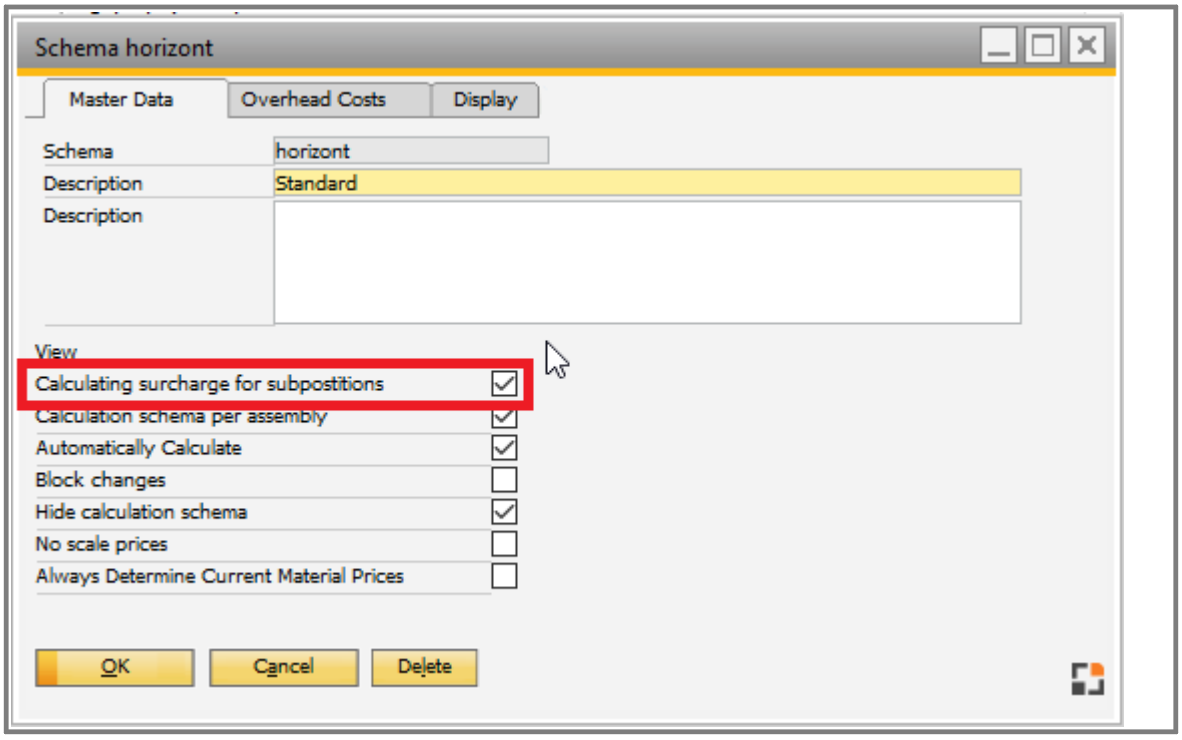
After adding a new Precalculation, select a Calculation schema from the drop-down field in the "Valuation" tab.



2. Enable "Calculating surcharge for sub-positions" in the Calculation schema.

Click on the yellow arrow left of the Calculation schema drop-down (***see*** point 1. above), and enable the calculation of surcharges in the Schema edit window:

© 2026 Boyum IT Solutions A/S

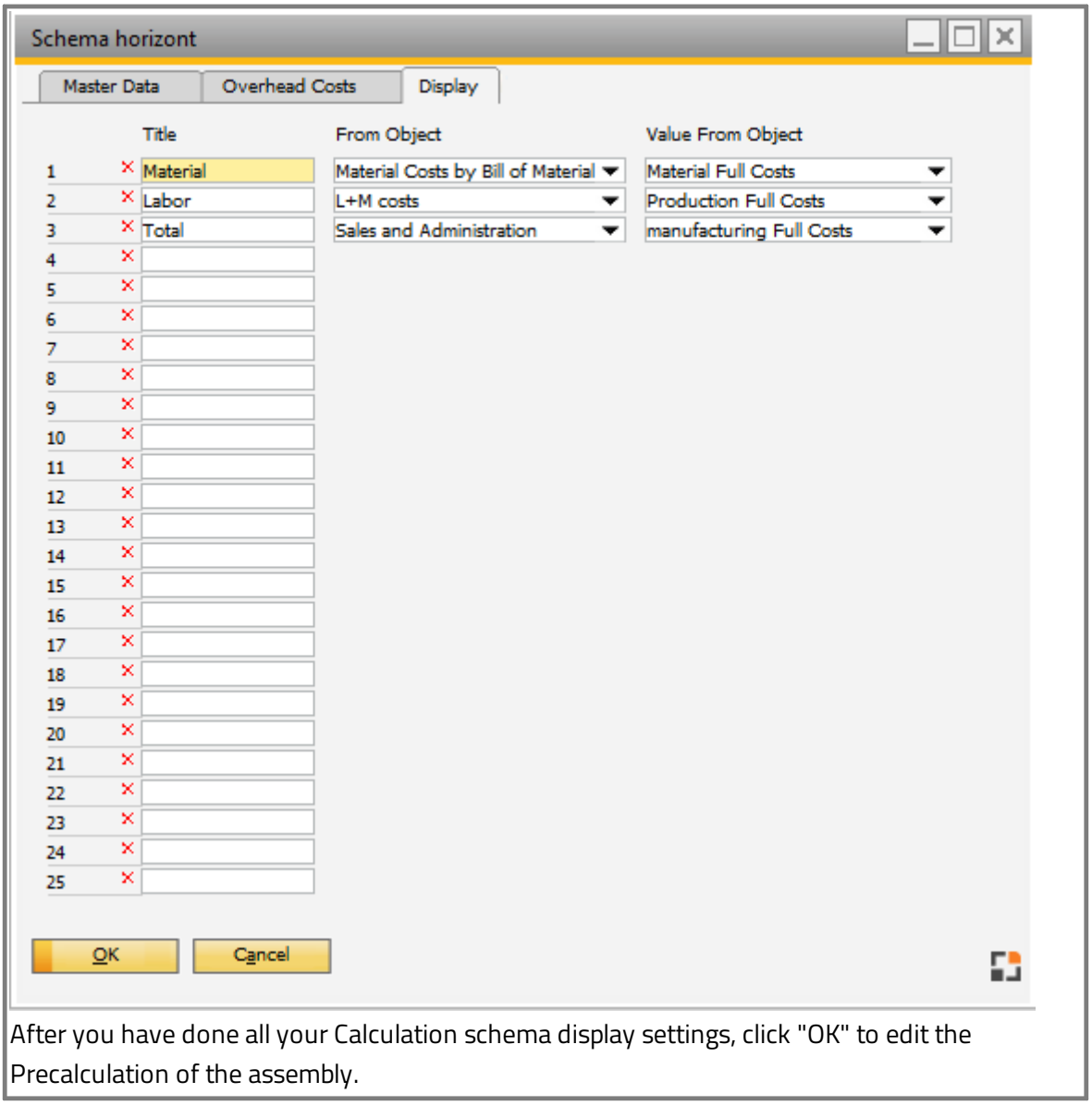


3. Define values to be displayed in Calculation schema > Display tab.

The objects that you select in **Calculation schema > Display** (***see*** image below) appear in the Precalculation extended view.

In this example below, we select Material, Labor and Total costs with their additional costs to be displayed:

© 2026 Boyum IT Solutions A/S



After you have done all your Calculation schema display settings, click "OK" to edit the Precalculation of the assembly.

4. Add item(s) with the "Insert item" button from the header.
5. Switch to "View Extended" in the **Precalculation > View** control bar.

Example:

In our example (***see*** above: **Image 1.**) we are displaying the precalculation details for two assemblies – the two versions of the item "VA-Level2-Sep".
By double-clicking an assembly, you can edit Calculation schema details separately for each item in a separate window "Material".

See:

Beas Calculation per Assembly Webinar

© 2026 Boyum IT Solutions A/S

Example display tool:

The tool costs have to be shown separately in the result list of the batch-precalculation or batch-postcalculation:
1. Entry in result field 1: "Tool costs"
2. Creation of the cost type
3. Assign the tool costs in this cost type (Tool administration)
4. Calculation schema: New overhead costs object type "Cost type", cost type "Tool" select, save as "Tool costs"

From all tool costs will be displayed in the column "Tool costs".
See: Tool

See

Calculation schema – Surcharge calculation per item
Precalculation – Extended view
Calculation schema

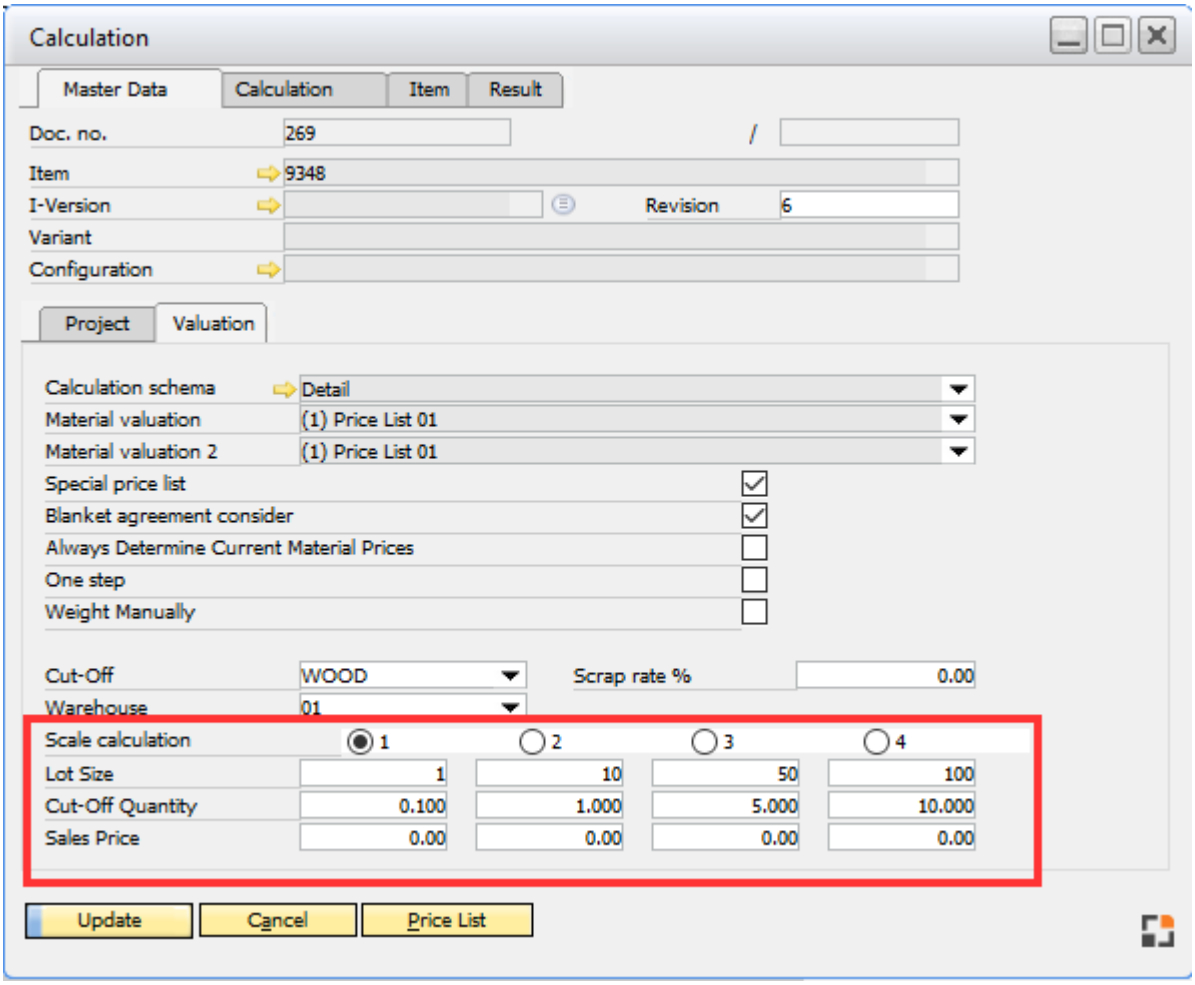
back to Precalculation

5.2.3 Lot Size and View per

A calculation can be made simultaneously in a maximum of 4 lot sizes. The default lot size is the calculation lot size as per the item master - Calculation.
If the calculation is called up from a quotation or an order, the quantity stored there is the lot size.
For further information on lot sizes ***see*** Lot size - concept.

This is the maximum individual quantity that can be produced without interruption.

© 2026 Boyum IT Solutions A/S



View per

With "View per" you can define, for which count you want to see the price.

Example 1:

You must create a quotation for 1, 10, 50 and 100 and need the price per 1.

1. Define Lot size 1,10, 50 and 100
2. Define View per to 1

Now you can display the cost per 1 for different quantities.

Example 2:

You have a max. lot size for 100 Pcs and must create a quotation for 1000 Pcs and you need the total price for 1000

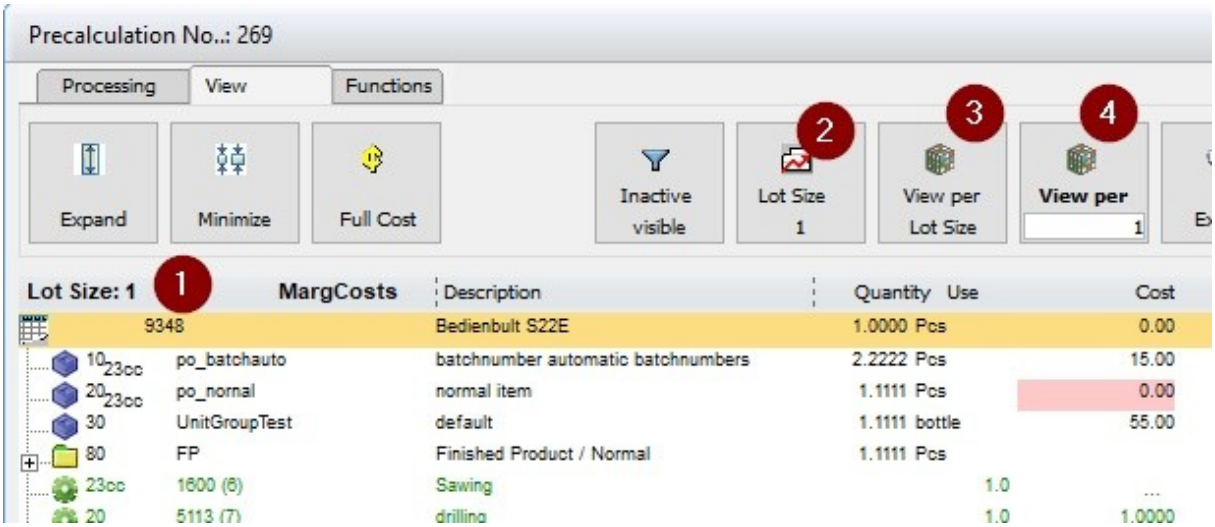
1. Define Lot size 100
2. Define View per to 1000

© 2026 Boyum IT Solutions A/S

Now you can the the total costs for 1000
In this case the system multiplicity the setup times, fix times and fix surcharges with 10, because you must produce this product 10 times to deliver 1000 Pcs.

Switching between lot sizes and view

Change Lot size
- in calculation view on text "Lotsize" (1)
- in tab "view" - Lotsize (2)
Change View
In tab "view" click on
- (3) "View per Lot size": display always total costs by lot size
- (4) "View per x": you can insert the count of Pcs, for which you see the price, example "1" means: Display the price per Pcs.



If the subassembly has a lot size, too, this will be considered under following conditions:

© 2026 Boyum IT Solutions A/S

6 Purchase - AP

Purchase order (SAP)
Goods Receipt PO
Supplier complaint

All Purchase documents support the
- Macro Print solution
- Project / Tasks
- Item Version
- Beas Bin Location system

Extended UDF's

Beas adds additional UDF's into documents, which are filled when the document is created in Beas.

Field	Description
Personnel	Personnel number (currently logged on in Terminal, WebApps or linked Personnel-SAP-User
Beas Version	Beas Versions used for the posting
Origin	Origin type **Kind** / **Meaning** B – Goods receipt Purchase PM – Purchase Material PS – Purchase External operation

6.1 Purchase order (SAP)

Beas insert extended functions inside SAP Purchase order.

Additional options for purchase orders pop up via right-click.

© 2026 Boyum IT Solutions A/S

If the material is linked to an external operation, the right-click pop-up menu displays two new entries:

- (1) External procession details: [material] (wo/position/routing)
- (2) External processing details

(1) Open a new window with information for all materials

(2) Open a new window with information for the selected line only

PATH: Purchasing – A/P > Purchase Order.

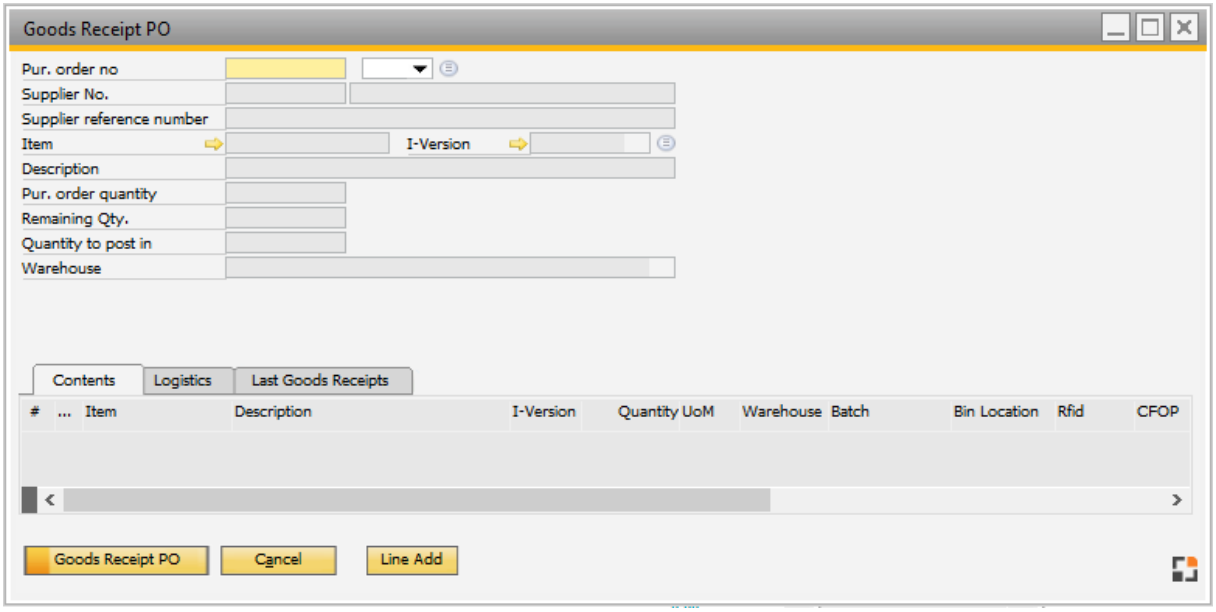
Window beasgui_sbo.psr

For more information ***see*** Production – external work order process

6.2 Goods Receipt PO

Goods receipt is a replacement function for SAP Business One – **Purchase > Good receipt PO**. This function is ideal to be employed directly at the goods receipt location and supports, apart from supplied parts lists, optimal batch support and serial numbers support, quality control, label printing and some other important functions. Goods receipt creates a regular goods receipt delivery note in SAP Business One.

Multiple Goods Receipt purchase window (default)



Window mw_goodsreceiptpo_edit.psr

© 2026 Boyum IT Solutions A/S

Special Functions:

- Several purchase order rows can be posted in with one goods receipt document
- Posting in several batches, only one goods receipt row is created.
- Summary of different purchase orders is not possible
- All good receipts which has been created on this station via this window are displayed in tab "previous good receipts". Own good receipt function created via SAP B1 or good receipts, which has been created on other stations, are not be displayed here.
- Support Beas, SAP and WMS Bin Management

Single Variant

There are two functions: You can set up the one to be used in **Configuration wizard > Materials management > Goods receipt > Goods receipt type.**

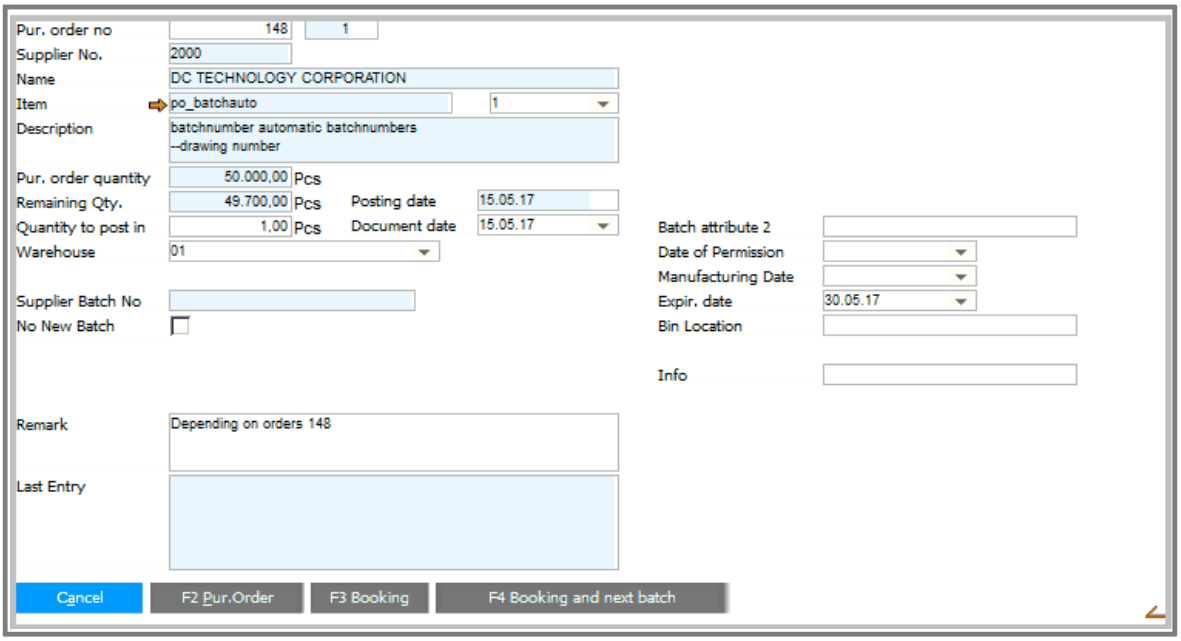
Attention:

Do not use this Variant. This window is in maintenance and this will not be supported in the future.

This is still available only for reasons of compatibility and will be replaced by the "Multiple".

- Per purchase order row one goods receipt is created.
- For each batch a goods receipt is created.
- Several serial numbers can be posted in with one goods receipt.
- **SAP functionalities newer than SAP 9.0 are NOT supported.**

© 2026 Boyum IT Solutions A/S



Field description

Apart from the order information, additional fields are shown – depending on the item type.

Window settings are available

Note: Localization in this window is not supported.

Field	Meaning
Purchase order number	Select from open purchase orders or purchase requests (switch on the right to open the window open purchases) You can insert the number manually or you can choose this from a list. If you insert the number manually, you can insert only a Purchase order, not Pre-Invoice or Quotation number. If a Document number exists more than once, Beas uses the last document.
Supplier number	Supplier number
Supplier reference number (only for GO type multiple)	Free text
Name	Supplier name

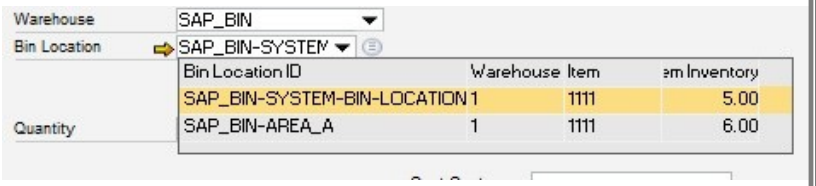
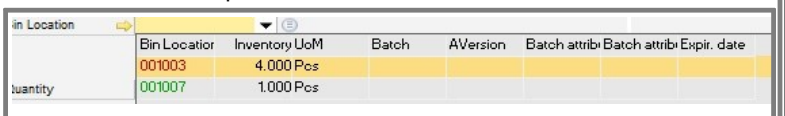
© 2026 Boyum IT Solutions A/S

Field	Meaning
Item	Item
Item description	Item description
Pur. order quantity	Purchases quantity
Remaining quantity	Remaining quantity
Quantity to post in	Quantity to be posted in now. **Warning:** All quantities are shown in the purchasing UoM. The number of decimal places depends on Master data – Units of measure. If per line serial numbers are entered, this field displays the current total quantity according to the sum of all quantities from entries below. Notes on serial numbers: In item master series tab you can set up whether serial numbers are generated automatically or not. Serial numbers are generated manually. If serial numbers are entered per line, these fields show the current total quantity. Automatically generated serial numbers. The quantity can be specified. Serial numbers are generated only at the moment of goods receipt. Number generation is set up in Configuration wizard – Materials management - Goods receipt – Serial numbers.
Date of entry (Only type "single")	The date for the entry. It is normally the current day. Depending on the settings (goods receipt type simple or multiple) this field is to be found under logistics tab.
Reference date	Corresponds to Tax date in SAP document.
Warehouse	Target warehouse Warehouse stored in purchase order.

© 2026 Boyum IT Solutions A/S

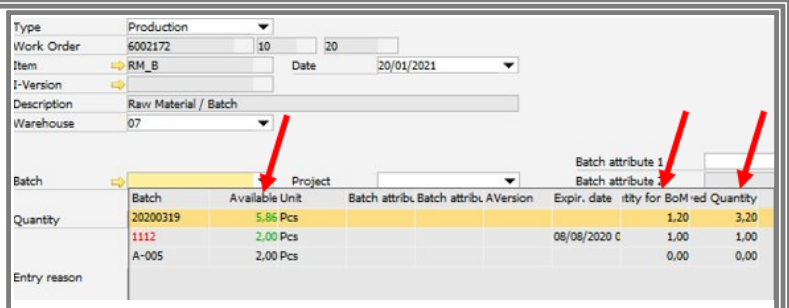
Field	Meaning
	Representing the primary inventory. Depending on the setting, the quality control warehouse is set up automatically. If a goods receipt warehouse is defined, depending on the rules the associated goods receipt warehouse is entered. Limitations: - SAP Bin Warehouse supported. But it is not possible to make a receipt on different Serial- or Batch Numbers with the same base document line. - Beas Warehouses: The same base line purchase document cannot be received in 2 different bin locations. - WMS bin warehouses are supported, but the same base line purchase document cannot be received in 2 different bin locations. - WMS Warehouses: System creates separate lines for each entry, which means that only 1 entry can be assigned for each base line. ***See***: Configuration wizard – Quality control – Goods receipt Edit warehouse master data
Bin location	Determines to which bin location the goods are posted at receipt. Supported: Beas and SAP Bin Management ***See*** Receipt on bin location Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components: **Arrow icon** /

© 2026 Boyum IT Solutions A/S

Field	Meaning
	List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location.  **The selected drop-down option displays the following information in receipt documents:** • Bin Location • Warehouse Area • First item in this bin location • Stock of the first item in this bin location The list can be modified in the Configuration wizard. **The selected drop-down option displays the following information in issue documents:** • All stock information of all bin locations with batch- and serial number information. • ⊟ Reserved Batch quantities information  The drop-down contains information on reserved quantities in 3 columns:

© 2026 Boyum IT Solutions A/S

Field	Meaning



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

- Notes: Beas Bin Warehouse

© 2026 Boyum IT Solutions A/S

Field	Meaning

	The Definition of the bin location is mandatory.
	Notes: SBO Bin Warehouse
	If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
	This is entirely managed by SAP Business One.
	
	Drop-down for volume or weight is not supported. Columns are always 0.
	beas 9.3 PL 2
	Notes: WMS Bin Warehouse
	Bin location is mandatory.
	Drop-down for volume and weight not supported.
	Customizing of the drop-down list in Beas 9.3 PL 2 or newer release
	This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.
	
	The following priorities are considered:
	1. Window-related customization (`windowevent setbindropown`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	In the `e_bindropdownbsl` variable, the ODATA command can be defined.
	It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.
	
	The standard functions for receipt and issue are as folows:
	`file stockmanagement.src`
	`function binreceiptdropdown`

© 2026 Boyum IT Solutions A/S

Field	Meaning

```
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$mask=1
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

© 2026 Boyum IT Solutions A/S

Field	Meaning

	The following priorities are considered:
	1. Window-related customization (`windowevent`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:
	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end function`
	
	LIMITATION: The receipt process linked with a purchase order is not able to create receipt for the same line into 2 different bin locations at the same time. As a workaround for this, the user can generate the receipt document in 2 steps or receipt full quantity in one bin location and move the required quantity to a different location after the receipt is created.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Expiry date	Only possible for batch or serial number items. Determines the expiration or end of warranty date. This date is calculated automatically. Setup in Item master > batch tab or Serial number tab
Supplier Batch No	Only possible for batch or serial number items. A supplier batch number can be specified here. At batch: Entered in the field Supplier batch of the batch. If the field "No new batch" is active, the batch entered here is also used as internal batch number. For serial number: Next to the serial number, the batch is entered in the field "Batch".
Serial number	Different depending on selected "Type "in Configuration wizard. ⊞ Goods receipt type single There are three options: 1. Automatic generation If there is no entry, the numbers are generated automatically. Automatic number generation is set up in Configuration > Materials Management. 2. Manual entry The numbers can be separated with commas, e.g. 10004,100023,100Z3 etc. 3. Manual determination of the automatic generation A template is defined which determines the structure of the serial numbers. *The counter is enclosed by { and } . Example of piece count 3: {0010} results in 0010, 0011, 0012 A5-3{002}X results in A5-3002X,A5-3003X,A5-3004X ⊞ Goods receipt type multiple **1. Automatic generation** No serial number can be entered. Quantities > 1 not possible. Serial numbers are generated with the document.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	2. manual determination Serial numbers are entered or scanned and confirmed with TAB/ENTER. Jump to next entry. Quick entry If a lot of serial numbers are to be entered, numbers can be added one by one: after one click the next serial number is added as a new line. Using bar code scanners, the scanner can be configured for adding a key after each read. Then, the user only needs to read all bar codes – no more action is necessary. After the reading has been finished, click on the "**goods receipt**" button to create the document. This function is only allowed with the following parameters: poincomingtyp set to "M". It works with manual serial items only, because for automatic serial items the window does not show a message with the complete serial number information.
Batch	Entry of the batch This field is only visible if "Manual batch entry" or "Batch according to material" has been set in the Batch tab of the item master. The batch number for the item to be posted can be defined here. The quantity and the batch are indicated on "Add row" and then the next batch is captured if multiple batches are posted. Capture of more batch attributes 1. Right-click on the list. 2. Select Window settings. 3. Fields "Batch attribute 1" as well as all other fields, which are

© 2026 Boyum IT Solutions A/S

Field	Meaning
	required are set to "Visible" and "Changeable" . 4. These fields can now be edited directly in the list.
No new batch (Only type "single")	Only for batch items. No automatic generation of the batch number takes place if this is activated. Instead, the batch number entered in delivery batch No. is used. Otherwise the next number is automatically generated. For more on the batch number ***see*** Batch Management.
CFOP	CFOP Tax code Affects only Brazilian localization. The field is displayed only if a code was stored (table OCFP).
Remarks	Input field for remarks.
Last entry	Last posting entry.
UDF 1–15	User-defined fields Note: The information entered in these fields is saved in the table "BEAS_PLANDOCUMENT_LINE", but not in any other UDFs in Beas. Modification is available by customization.

Only displayed for Goods receipt type "multiple"

Lower tabs

Content: Previously entered items which are to be posted in with the same document.

Archive: Previous goods receipts created on this work station.

Logistics:

Field	Meaning
Posting date	The date for the entry. It is normally the current day.
Document date	Creation date of the selected document.
Remark	Free text.
Label	Only for compatibility reasons. Can be used for own Macros.

In the lower list items selected for posting are displayed. With a click on the deletion icon they

© 2026 Boyum IT Solutions A/S

can be removed. Click the goods receipt button to perform the posting.

Functions

Function	Meaning
Line Add	To post in a second item. Previously entered values are displayed below, the upper fields are emptied for new entries. If for a document row more than one inflow was added (e.g. a second batch) the second entry is locked and the selected stock of the first row is used, because for a goods receipt only one warehouse may be selected per document line.
Goods receipt PO	Execute the posting.
Cancel	Close window without saving changes.
Post and new batch	Only for Goods receipt Type "single" and batch-managed items. If an item was entered after posting, the screen not reset. You can easily record the next batch for the same order.

Process

1. Select the order with F2.
2. Enter posting quantity.
3. Execute the order by pressing F3.

(Note: In SAP Business One-environment F-keys cannot be used. These are available only when Beas is started outside SAP Business One)

If a provision parts list exists, it is queried afterwards.

See Provision parts.

Quality control

If a quality control order is stored in the item, it is created immediately after completing the goods receipt. Depending on the settings in Configuration wizard - Quality control - Goods receipt the quality control order is opened immediately.

Automated document printing

Right-click menu > Layout

© 2026 Boyum IT Solutions A/S

Field	Meaning
Preview	Via preview the last printed document can be viewed and printed.
Layout	Opens the Macro window. If in this window a Macro named "default" is stored, it is printed automatically after the goods receipt has been finished. Usually, API "B1DocumentGenerate" is used to access the table "beas_document_header/beas_document_line". If you do not want to use this API, read the internal document number from variable "e_docentry".

Additional Macro parameters for document printing

e_cardcode	Business partner
e_docentry	Internal goods receipt document number (docentry)
e_itemcode	Item number
e_batchnum	Generated batch number
e_whscode	Warehouse
e_quantity	Quantity
e_remark	Note
e_qcorder	Quality control order

Manual document printing

For document printing a corresponding document must be deposited in the Macro settings. The name can be freely assigned.

After creating the goods receipt document, via preview or print icon the last created document can be printed.

Extended fields in purchase

The following fields are filled in SAP Business One – delivery note

Field	Description
Personnel	Personnel number (currently logged on in Terminal, WEB Apps or linked Personnel-SAP-User
Beas Version	Beas Versions used for the posting

© 2026 Boyum IT Solutions A/S

Origin	Origin type. For goods receipt via beas always "B"

See

Provision parts

Configuration wizard - Quality control - Goods receipt

Configuration wizard - Materials management - Goods receipt

6.2.1 Provision parts

In this window provision parts defined in item master are issued.

Process:

This function is similar to the external operation concept of Beas. It can be processed without a work order.

1. Auxiliary material is posted to a suppliers account (manually), which may be a normal warehouse used as "external warehouse".
2. A purchase is created for the finished part.
3. The external supplier produces the finished part and delivers it.
4. Goods receipt – the finished part is posted in. Provision parts are issued from the warehouse (the external one) indicated in the BoM.

Provision parts are defined in the item master by setting the scheduling ID to "provision part" and adding the needed material to the BoM.

IMPORTANT:

Provision parts:

- do not support Beas, SAP and WMS Bin management.
- do not support batch numbers or serial numbers.
- are only available in single goods receipt.
- is in maintenance. End of development.
- not available in multi-line goods receipt PO or in web app solution.
- Beas does not calculate MRP Sub-assembly requirements for items defined as "Provision parts".

© 2026 Boyum IT Solutions A/S

See

Goods receipt with provision

6.2.2 Open purchase orders

Selection window for open purchase orders and reverse invoices. In the selection window, next to the purchase orders, now reserve invoices can be accessed, sort by clicking the column header.

Field	Description
#	Number in list
Type	Purchase / advance invoice
Document	Document number
Line	Document line
Supplier	Supplier number
Name	Supplier name
Date of purchase	Date of purchase
Supplier Ref. no.	Supplier's reference number
Item	Item number
Description	Item description
Quantity	Total purchase quantity in warehouse units
Unit	Warehouse unit
Open	Remaining quantity, without goods receipt
Delivery date	Date of delivery of the purchase order
Calendar week	Calendar week of delivery date (format YYYY/WW (Y=Year, W=Week) referring to the Factory calendar.
Match code	Match code
DIN	DIN
Drawing number	Drawing number from purchase order or advance invoice. If nothing was stored, drawing number from item master
Catalog	Business partner catalog number

Use the search field on the bottom for full text search in columns:

Supplier (number and name)

Supplier ref.nr.

© 2026 Boyum IT Solutions A/S

Item (number and description)
Document number

back to goods receipt

6.3 Supplier complaint

Here you can enter a supplier complaint.

see
Complaint types
Internal complaint

back to Goods receipt

© 2026 Boyum IT Solutions A/S

7 Inventory

Inventory management was extended with a fully integrated bin location management.
Different warehouses with special properties can be managed.
An item can be posted to bin locations already at goods receipt. The visualization provides a quick overview on stock.
Inventory transactions can be performed easily, and batches and serial numbers are supported.

SAP Item Master Data
Item report
Item structure
Item master
Bill of materials
Routing
Bin Locations (SAP)
Warehouse Management
Inventory transactions
Tool Administration
Item management

Beas webinar: Building Blocks: Complete process (BoM, Routing, item Master data)
Beas webinar: Item Version Control
Beas Version Status Control – new in Beas 9.2 PL:00
Training unit 14 bin location management ("Save linke as...")
BoM Rounding function

Transactions
Warehouse choose bin code

7.1 SAP Item Master Data

This documentation is to describe the complete Item Master Data Window with all SAP- and Beas functions.
You can set up the SAP window view with integrated Beas functions in the Configuration wizard as default.

© 2026 Boyum IT Solutions A/S

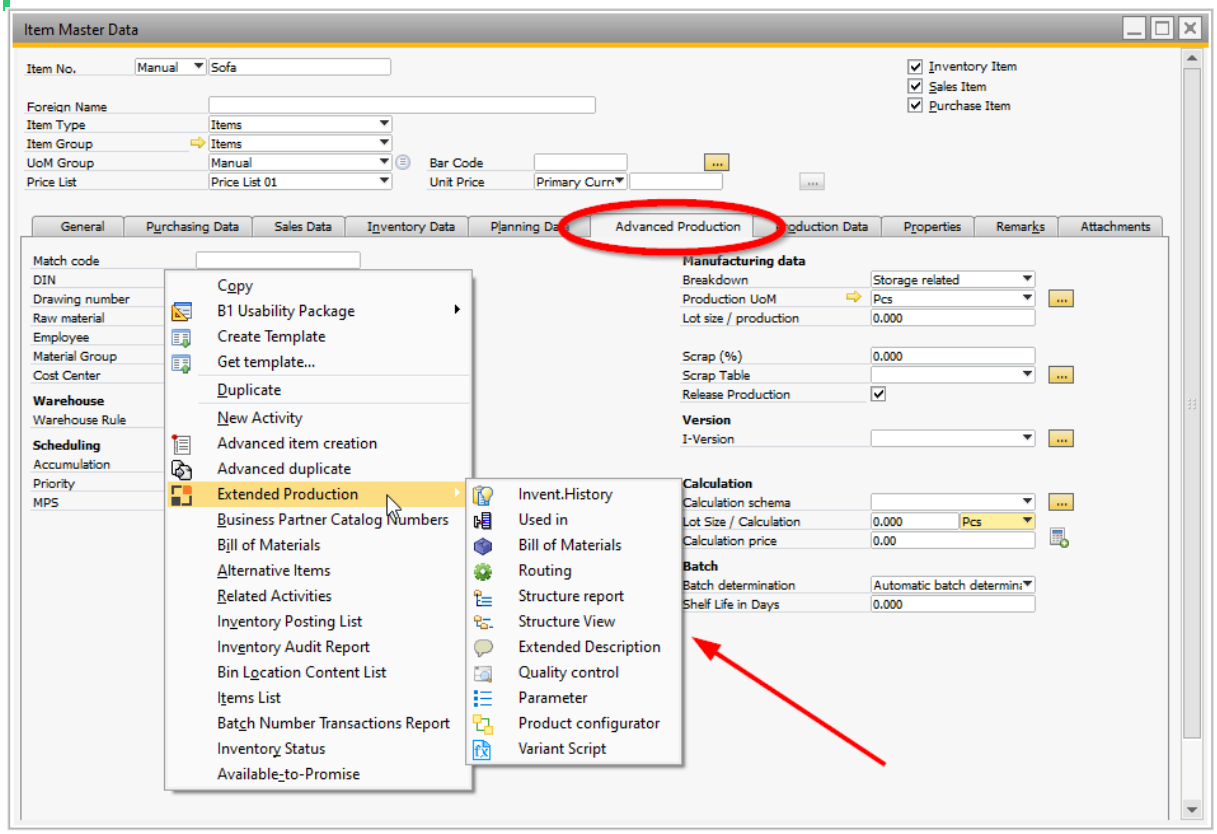
As of Beas 2020.12 Beas always opens the SAP Item Master Data if you click on a yellow arrow linked with Item master data in Beas Forms and SAP Forms.

The Advanced Production tab in the SAP Item Master Data window is a collection of all Beas functions integrated inside the SAP functionality. The window also includes a right-click menu with Extended production options.

Data Validation:

The validation and deletion of related Beas Tables is possible without Beas running.

PATH: Inventory > Item Master Data



Overview

General

Purchasing Data

Sales Data

Inventory Data

© 2026 Boyum IT Solutions A/S

Advanced Production

- General
- Warehouse Rule
- Scheduling
- Manufacturing Data
- Version control
- Calculation
- Batches / Serials

Planning Data

Production Data

Properties

Remarks

Attachments

Overview of changes and additional functions

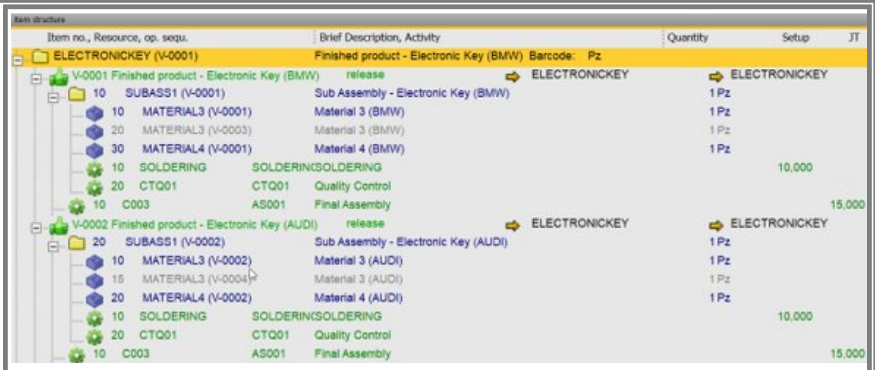
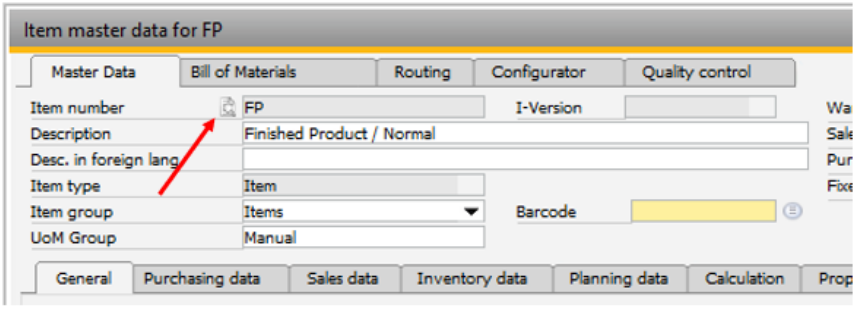
- New Tab Advanced Production
- Advanced Duplicate / Item creation function
- Advanced right mouse click Menu
- Unit of Measurement (all tabs): Check correct name
- Add/Update check additional rules
- F1 Function

7.1.1 Header - SAP Item Master

Field Description

Field	Description
Item Number	Unique item ID Define the internal item number with max. 50 characters. Limitation: Not all characters are allowed. ***See*** key fields. **Variant production**

© 2026 Boyum IT Solutions A/S

Field	Description
	 If formula fields are set to "visible", the icon appears left to item number.  Click on it, to store a script for creating BoM and routings. **Formula icons** **Icon** / **Boyum Style icon** / **Description** Function Table Script and other Variants Empty formula Text edit disabled. Double-click to open the script editor. Located left of Item number in Item Master data.

© 2026 Boyum IT Solutions A/S

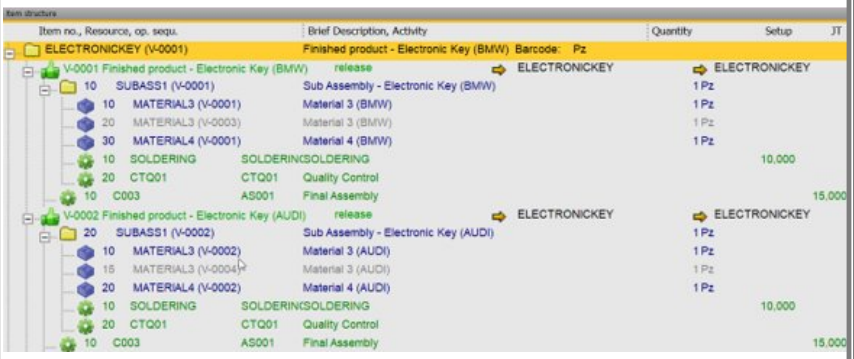
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Icon</th><th>Boyum Style icon</th><th>Description</th></tr>
<tr><td></td><td></td><td>Text edit - script is inside. Double-click to open the script editor.
Located left of Item number in Item Master data.</td></tr>
</table>

Note: This function is only available if the Variant generator is activated in the Configuration wizard.

See more details in Formulas, Tables, Variables and BeasScript.
</td></tr>
<tr><td>Serial ID</td><td>Only display of the used serials (number range for new items)</td></tr>
<tr><td>I-Version</td><td>Version number of the item

Note: Only for Serial- and Batch-managed Items

Managing version controlled items allows to have multiple reviews of an item, with eventually a BoM and a routing associated to each version. It is possible to keep control over the usability of a version on different levels of the company processes and have a track record of the revision changes over time.

Default of the current item version

If you work with the extended item version, indicate the item version to be used in the order recommendation report or creating work</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	orders. If item version is defined, it is mandatory to define the default version in this field. This field is protected if the current item is not a batch- or serial-managed item. **Compatibility:** In old Beas versions it was possible to use Item Version control for all item types. We disabled this functionality, because a stock-managed control by Item Version is only possible for Batch- and Serial-managed items. If you use Item Version Control for other items, the field "Item Version" is not protected. But for these items the system does not check the correct Item Version in transaction documents. Note: If you delete Item Versions and the item is not Serial/Batch managed, the system protects the Item Version field. If Item Version is active, it is not possible to switch Item Administration from "Serial/Batch" to "Normal". MRP can return wrong result if you work with item version and non-batch/serial managed items. ***See*** Datacheck. ***See*** VIDEO: Item Master Data - I-Version field VIDEO: Item Master Data - I-Version field Edit versions/variants (I-Version)
Barcode	Input of the European item Number (EAN) or item bar code. Any other bar code can also be printed. The bar code can have up to 16 digits. When a bar code is entered, the program checks if it already exists in other items. In this case, it is not allowed to leave the field. You need to enter a unique bar code to save

© 2026 Boyum IT Solutions A/S

Field	Description
	it. Note: In case you wish to use bar code scanning in WebApp Terminal 2.0, you must set up 14-digit GTIN (EAN) bar codes. ***See*** WebApps 2.1 GS1-128 bar code support GTIN (EAN-14) bar codes
Description	Input of the description of the item This is the Item Name which you can see in every window If Item Version is activated and you create a document, the Item Name defined in the Item Version will be used. If Variant Generator is activated and this item is part of the Bill of Materials, the system replaces all placeholder <...> from the description. ***See*** Variant description
Description in foreign language	Input of the description of the item in a foreign language. This description can be copied to documents for foreign language business partners.
Item type	Select from the following options: • Item - Use this option to define items in SAP Business One. • Work - Use this option in the service module to calculate the time required to perform a task. • Travel - Use this option in the service module to calculate the time that a service engineer is on the road. • Fixed assets (not available for selection in Beas) Note: Beas has its own resource administration. Item types "travel" and "work" is not used and therefore not supported. "Fixed asset" items are hidden in Beas, a processing is only possible in the fixed assets module.

© 2026 Boyum IT Solutions A/S

Field	Description
Item Group	Divide items into groups Each item is only assigned to one group. The accounts to be charged are stored in the item group, when item group specific account definition is activated. The Item Group field is used later for reports and analyzes. If the user has extended authorization for routing of BOM this field is blocked. ***See*** User authorizations - extended.
UoM Group	Unit of measure group. ***See*** Concept UoM Group
Warehouse Item	Determine whether the item is inventory-controlled The corresponding item can be used in warehouse management by selecting the Warehouse Item option. For example, inventory transactions such as transfers can only be performed for warehouse items. If an item is only defined as a warehouse item, this item cannot be sold or purchased. Note: To define an item as a non-warehouse item, remove the flag for warehouse items. Typical non-warehouse items are e.g. services, electricity or personnel costs. The additional costs incurred by non-warehouse items are listed in the production order. The default valuation method must always be used for non-warehouse items; in addition, an expense account must be assigned to these items (except in the case of an item group). Warehouse items can be converted into non-warehouse items and vice verse, as long as: • No transactions have been posted for the item • No documents exist for the item, e.g. quotations, sales orders, purchase orders, incoming or A/R down payment requests, or draft documents Note: Series or batch items cannot be defined as non-warehouse items.
Sales Item	A sales item is sold to a customer. If an item has been defined as a sales

© 2026 Boyum IT Solutions A/S

Field	Description
	item, a sales order can be created for a customer. This category also includes services, as these are neither purchased nor warehoused.
Purchase items	Purchase items are bought by a supplier. If an item has been defined as a purchase item, a purchase order can be created, for example.
Fixed Assets	Select this option to define an item as a fixed asset, i.e. as an item which can only be bought. Not changeable in this form. Please use Extended (SAP Business One Item window)
UDF	It is possible to activate 4 UDF fields in the Configuration wizard. Note: The item master data is not a Beas table. You must link an SAP UDF field. For more information see Configuration wizard.

7.1.2 Extended Production Right-Click Menu

This right-click menu stores all Beas functions that are relevant for the item. The functions that appear in this right-click menu are equivalent to the different tabs and functions of the Beas item master window.

This menu is available with basic license.

You can only see functions and fields which are available for this item type and which are activated in the Configuration wizard.

PATH: Inventory > Item Master Data > right-click menu > **Extended Production** > entries

Overview of right-click functions

Function	Description	Visibility
Invent. History	Opens the inventory history for the item.	Always
Used In	Opens the "Used In" Beas window of previous versions, but with 2 tabs: - "Bill of Materials" - "Documents"	Always
Bill of Materials	Definition of Bill of material for Production.	Rules Procurement Method is

© 2026 Boyum IT Solutions A/S

Function	Description	Visibility
		"Make" or Breakdown = "Provision Parts" and Item Version control is is disabled or Version Administration is "default" and In **Administration > Setup > General > Users > right-click > Extended > Extended** you can define additional rules for access to BoM and Routing. The user must have access. If case of no definition, the user always has complete access.
Routing	Definition of Routing positions.	Rules Procurement Method is "Make" or Breakdown = "Provision Parts" and Item Version control is is disabled or Version Administration is "default" and In **Administration > Setup > General > Users > right-click > Extended > Extended** you can define additional rules for access to BoM and Routing.

© 2026 Boyum IT Solutions A/S

Function	Description	Visibility
		The user must have access. If case of no definition, the user always has complete access.
Structure Report	Manage the structure report for the item.	Rules Procurement Method is "Make" or Breakdown = "Provision Parts" and Item Version control is is disabled or Version Administration is "default" and In **Administration > Setup > General > Users > right-click > Extended > Extended** you can define additional rules for access to BoM and Routing. The user must have access. If case of no definition, the user always has complete access.
Structure View	Open the Beas Item structure window.	Rules Procurement Method is "Make" or Breakdown = "Provision Parts" and Item Version control is is disabled or Version Administration is "default"

© 2026 Boyum IT Solutions A/S

Function	Description	Visibility
		and In **Administration > Setup > General > Users > right-click > Extended > Extended** you can define additional rules for access to BoM and Routing. The user must have access. If case of no definition, the user always has complete access.
Extended Description	Additional Remarks, Pictures and Attachments for the current item.	Always
Quality Control	Store and manage QC inspection plans.	Always
Parameter	With user-defined parameters you can add further details to the item.	**Configuration wizard > Master data > Item > Display > Item master > Manage parameters.**
Product Configurator	Store configurations for an item.	Visible when the Product Configurator module is available for the user.
Variant	Define names for Variant A-Z	Visible when **Configuration wizard > Production > Activate Variants Generator** parameter is active and in "Confirm" Mode in SAP BusinessOne.
Variant Script	Allow to define Bill of Materials and Routing positions by script.	Visible when defined in Script for Item variant.

back to Item Master Data
go to Advanced Production tab

© 2026 Boyum IT Solutions A/S

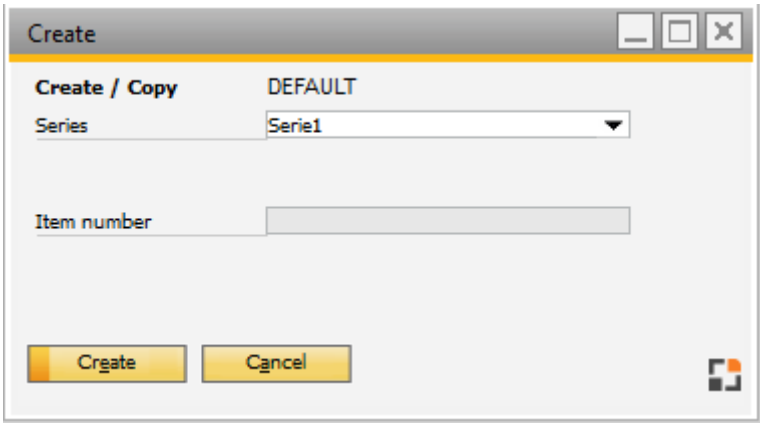
7.1.2.1 Advanced duplicate / item creation

PATH: Inventory > Item Master Data > right-click menu > Advanced duplicate / item creation

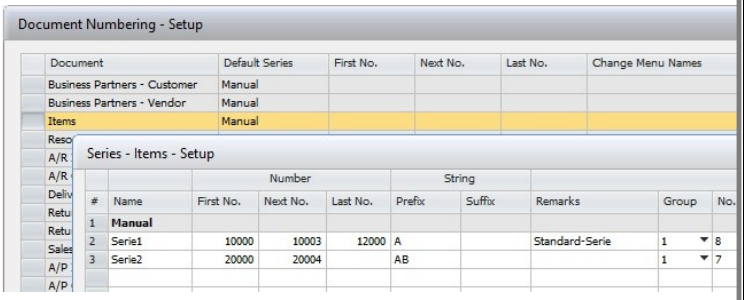
In this window you can create or copy new items.

When creating an item, Beas always makes a copy of the item and copy all item information linked to it e.g. Bill of materials, routing, quality control information, warehouse information, but no stock.

The base item is defined in **Configuration wizard > Master data > Item > Default item**
In this way it is possible to work with templates.



Window artikel_new

Field	Meaning
Series	Choose the Document Numbering of item generation In SAP Business One **> Administration > System Initialization > Document Numbering > Setup** you can define the Series for an item  The field "Series" is only visible, if additional Series are

© 2026 Boyum IT Solutions A/S

	defined. If you choose a series, the field "item number" is locked, because Beas will create the next number automatically.
Item number	Item number of the new item Selecting series, no entry of item numbers is possible. Note: Not all characters are allowed. ***See*** key fields.

Working with Item Generation

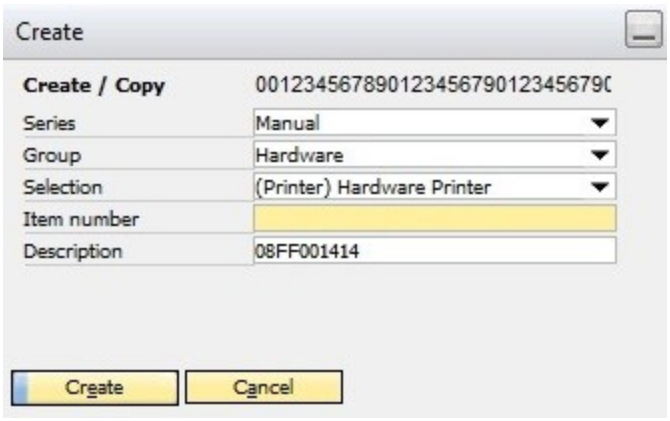
With the item generation function it is possible to define templates or item number / description generator.

See Generate Item

With this item generation the creation of items can be more automated.

Example: Generate item numbers and description related to a 2-Level item number generation.

Additionally, it is possible to use another template item related to the chosen Group/Selection.



Window artikel_new

Additional fields related to Item generation settings:

Field	Meaning
Group	The Item Generation Group
Selection	The Second Level for Item Group

© 2026 Boyum IT Solutions A/S

Description	The new description

Technical information

Beas uses the DI-API. The copy function does not exist.
Beas exports the source item to XML and imports this XML via DI-API.

It is not compatible with Item Version Control. It makes only a copy of the Bill of materials and Routing which have the same number as the item number.

Beas copies the following tables:
OITM, BEAS_STL, BEAS_APL, BEAS_APL_WKZ, BEAS_STL_HEADER, ABEAS_APL_HEADER, BEAS_ITEM_VERSION, BEAS_OITM_PARAMETER, BEAS_OITM_PRODUKTKONFIGURATOR, BEAS_QSVERWEIS

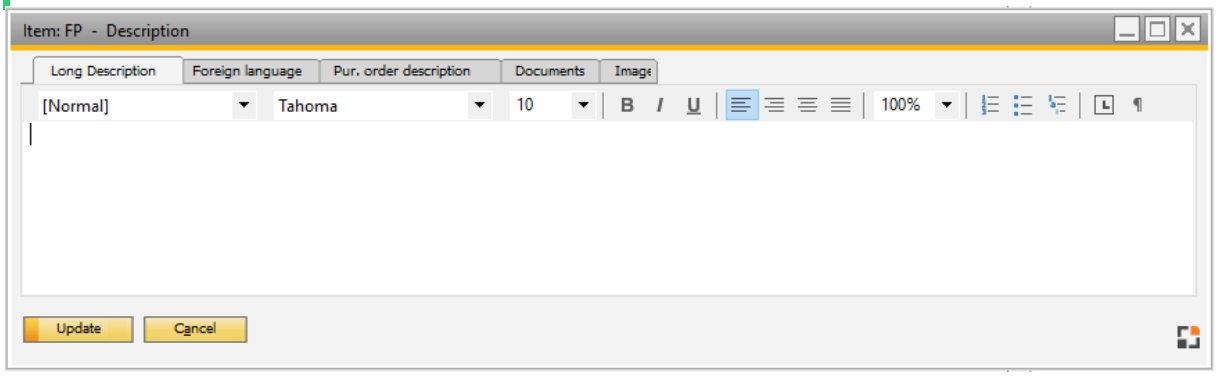
See Item generation

Limitation: SAP Item master attachments are not copied together with the Item Duplication functionality in Beas.

7.1.2.2 Extended Description

In this window you can provide additional description for the item in text or RTF format.

PATH: SAP Item Master Data > right-click > Extended Production > Extended Description.



Window artikel_description.psr

Tab descriptions

Tab	Description
Long Description	A long description of the item, which can also be entered in RTF format

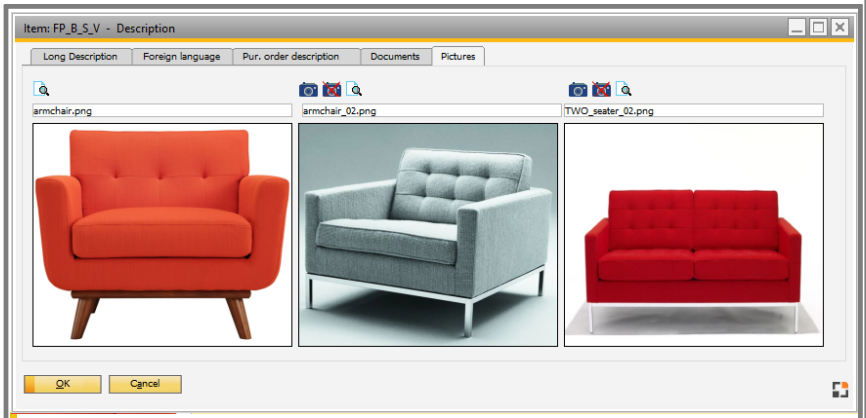
© 2026 Boyum IT Solutions A/S

Tab	Description
	(**Configuration Wizard > Master Data > Item > Use of RTF input fields**). This text can also be printed on sales documents. Extended information relating only to the rich text entry objects is only active as long the text is edited; it is not saved. **Important**: SAP Business One cannot read RTF format. If long description is entered in RTF format, it can only be displayed in Beas layouts and documents.
Foreign language	Long description for foreign languages. Can also be printed on sales documents in the case of a foreign language. Input in RTF format is also possible here.
Pur. order description	Long description for output on order forms, which can also be entered in RTF format (**Configuration Wizard > Master Data > Item > Use of RTF input fields**).
Attachments tab	⊟ Three documents or images can be stored. The pictures/documents stored here are available in the FDC terminal. The last used folder is opened. This is saved per window and workstation. Use the Pre-view window to view the first attachment. **Important**: In order for every SAP user to have access to the attachments, it is necessary to place the attachments in a shared folder and give the users rights to access the folder. Beas only creates a link to the attached file.
Documents	Any number of documents can be stored. The reference to the document (directory, document name) is stored, not the document. If a document was added here, it can be called from from different windows e.g. logon order (after WO selection), Pool list – logon work order or via app "Display documents". ⊟ **Details** Beas supports two kinds of documents: - Documents stored in SAP Business One (only view) - Documents stored in Beas You can add new documents, add remarks – these documents are not visible in SAP Business One

© 2026 Boyum IT Solutions A/S

Tab	Description
	Important: the documents must be in a released network directory. Note: Attachments saved in the SAP Business One screen are displayed in the Beas window (extended master data). They can be opened, but not renamed or deleted. Files attached in the Beas window are not displayed in the SAP Business One window. Sorting and filtering by cross reference is available. **Field and button descriptions** **Fields** **Field** / **Description** No. — A unique serial number is assigned to the document. The field is editable. **Behavior** When you add a new line, the numbering continues from the highest value. ***Example:*** You have 5 documents in line 1–5. If you change line No. "2" value to "53", the value of the next added line will be "54". Info — Free, editable field to provide further, short information on the linked document. Cross Reference — File path - Directory and file name - of the linked document. Available — Radio box for information: - **Active**: Reference is valid, the file is available. - **Inactive**: Reference is invalid,

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Tab</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>document was not found or there is no access right to the specified directory.</td></tr>
</table>
Available buttons
<table>
<tr><th>Button</th><th>Description</th></tr>
<tr><td>New</td><td>The button opens a new line where you can attach a new document reference to the item. For behavior, see field "No." above.</td></tr>
<tr><td>Delete</td><td>Remove linked document from the list.</td></tr>
<tr><td>Choose file</td><td>Select a document to link to the item from a released network directory.</td></tr>
<tr><td>Open</td><td>Open selected document to view.</td></tr>
</table>
</td></tr>
<tr><td>Pictures</td><td>Add two more images to the description of the item.
 

Note: the main image can only be added/deleted in the Remarks tab.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

back to Item Master Data
go to Advanced Production tab

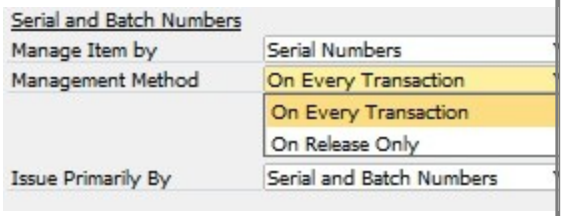
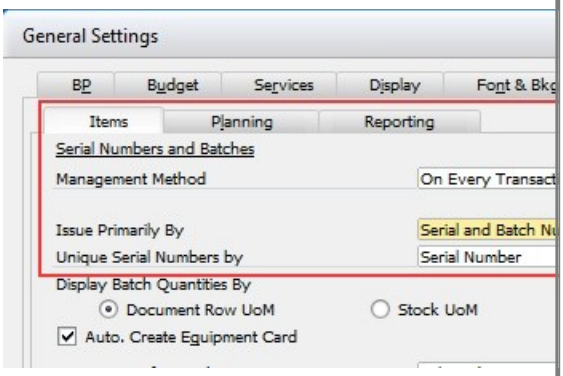
7.1.3 General

In this tab you can manage general, item-related information.

PATH: Inventory > Item Master Data > General

Field	Description
Tax Liable	Flag to identify whether the item is taxable. If this option is selected, the tax group can be defined on the Purchase Data tab.
Do Not Apply Discount Groups	Defines whether the item is submitted for discount definitions. For more information ***see*** SAP Documentation.
Manufacturer	Enter a manufacturer if the item is a brand product. You can assign an item to only one manufacturer.
Additional Identifier	Enter additional information about the item.
Shipping Type	Enter the means of transport and mode of transport to be used to perform the shipment.
Serial and Batch Numbers - Manage Item by	Method to receive and release items: Defines how to use batches or serial numbers material issue or material receipt documents. material issue and material receipt in producti • None (Default): Method if the item has neith batch. • Serial Numbers: Method for managing the s • Batches: Method for managing the batches **Limitation:** - Only "Management Method "On Every Tran - Primary issue: Only by "Serial and Batch Nu - Modifications of "Manage Item by" are **not** are created with the existing type of item.

© 2026 Boyum IT Solutions A/S

Field	Description
	 General settings – Stock Only the following combinations are supporte Manage Method "On Every Transaction" Issue Primary by "Serial and Batch Numbers" Unique Serial Numbers by "Serial Number"  **Notes:** It is not possible to change this field - If Item Version is activated - Stock is available - Batch- or Serial number related items are cr
Track Location of Serial Numbers	Activate Track location of items with serial numbers (Disable it!)

© 2026 Boyum IT Solutions A/S

Field	Description
	PRODUMEX WMS - Only visible if Produmex WMS is running. If it is checked, Produmex keeps track of the location of items with serial numbers (both SAP serial numbers and Produmex serial numbers) by forcing the stock to be on an SSCC. The serial number is linked to that SSCC. Note: To enable "Track location of Serial Numbers" in the Item master data, a LUID is mandatory otherwise the production goods receipt will not be possible.
Active	Period in which item is active. Remarks: add any further information.
Inactive	Period in which item is inactive.
Advanced	Opens both upper switches (if disabled, only one is available).

Note: The following fields appear in the Beas Item Master Data for purchase items, but they are **NOT** visible in the SAP form:

- Withdrawal document
- Made-To-Order
- Allocate
- Gross weight

If you wish to make any of these visible, you can activate them by Ctrl+Shift+U (display UDF).

go to Advanced Production tab

7.1.4 Purchasing Data

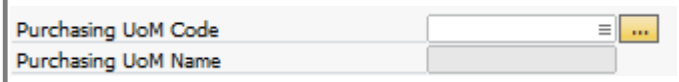
In this tab you can manage purchasing data for the item.

PATH: Inventory > Item Master Data > Purchasing Data

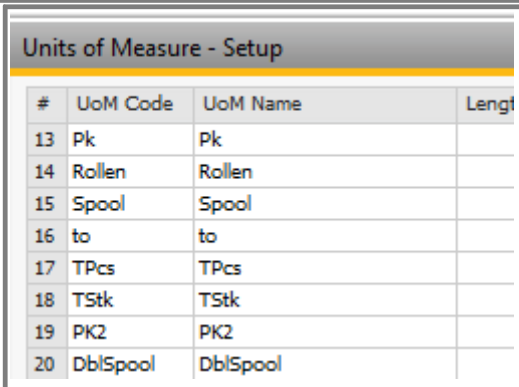
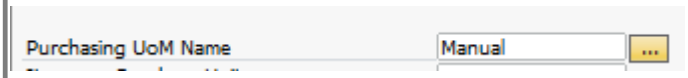
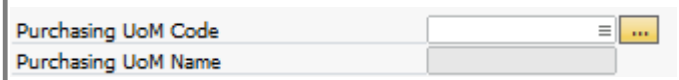
© 2026 Boyum IT Solutions A/S

Field	Description
Preferred Vendor	Input of preferred supplier for the item or selection of a supplier from the list. For every recommendation, the system proposes this value automatically. Here you can define additional vendors. Enter the preferred vendor for the item, or select a vendor from the list. Each time SAP Business One creates a recommendation, it enters the value automatically. "Preferred Vendor" is used in MRP as the default supplier. Beas displays Preferred vendors always on top of lists.
Mfr. Catalog No.	Input of catalog number of the item from the default supplier catalog. This number is displayed in the purchase and sales documents.
Purchase UoM Name	Input of unit of measurement for Purchase documents SAP Business One standard does not support defined UoM Definition in item master Data. The UoM is only a name. With Beas integration, the name is the UoM ID. It must be defined in Unit of Measure Setup. Beas can work correctly only if UoM Code and UoM Name are exactly the same: Units of Measure - Setup # / UoM Code / UoM Name / Lengt 13 / Pk / Pk 14 / Rollen / Rollen 15 / Spool / Spool 16 / to / to 17 / TPcs / TPcs 18 / TStk / TStk 19 / PK2 / PK2 20 / DblSpool / DblSpool The system checks the existence of UoM Code in all UoM name fields.

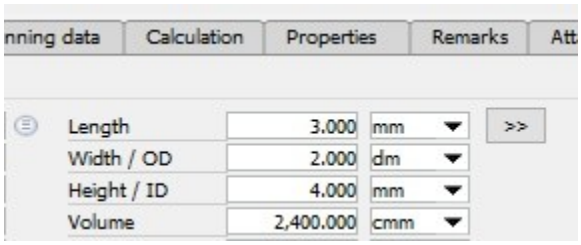
© 2026 Boyum IT Solutions A/S

Field	Description
	It inserts the correct Code or make the field empty if the UoM Code does not exist. ***Example:*** If you insert "sp" + TAB, the System inserts "Spool" Use the golden button with three points to choose the UoM from the list. Note: Many Beas functions, especially MRP and Work order can only work properly if the correct UoM is defined. **Working with UoM Group** If a UoM Group is activated, the system displays two UoM fields. Beas always uses Purchasing UoM name and does not support the code.  This only works if UoM Code and UoM Name are the same. **UoM Code general** ***See*** Concept of UoM
Items per Purchase Unit	Definition of quantity per packaging UoM.
Packaging UoM Name	Input of unit of measurement for Purchase documents SAP Business One standard does not support defined UoM Definition in item master Data. The UoM is only a name. With Beas integration, the name is the UoM ID. It must be defined in Unit of Measure Setup. Beas can work correctly only if UoM Code and UoM Name are exactly the same:

© 2026 Boyum IT Solutions A/S

Field	Description
	 The system checks the existence of UoM Code in all UoM name fields. It inserts the correct Code or make the field empty if the UoM Code does not exist.  ***Example:*** If you insert "sp" + TAB, the System inserts "Spool" Use the golden button with three points to choose the UoM from the list. Note: Many Beas functions, especially MRP and Work order can only work properly if the correct UoM is defined. **Working with UoM Group** If a UoM Group is activated, the system displays two UoM fields. Beas always uses Purchasing UoM name and does not support the code.  This only works if UoM Code and UoM Name are the same. **UoM Code general** ***See*** Concept of UoM
Customs Group	If the purchased part is imported, the custom group is entered. The

© 2026 Boyum IT Solutions A/S

Field	Description
	customs duties can be calculated with this. Select custom group from the list, re-define one to create a new custom group.
Tax Type	Selection of a tax group which is used to specify the tax to be used for country-specific tax calculation: • No tax • Regular tax (default) • Use Tax
Length/Width/Height/Volume	Define Length / Width / Height and Volume for this item related to the Purchase Area (not the Inventory UoM). Enter the dimensions of the purchase item. If you defined the units of measure when you configured the system, enter the measurements and press TAB and the system automatically enters the measurements of the purchase item. In addition, enter the values for the length, width, and height to calculate the volume of the item. Alternatively, you can enter the volume value without entering the length, width, or height. The System automatically calculates the "Volume" if you change one of the other fields-  Beas uses this information for Warehouse – Bin Management – Calculate Volume. Click on "**>>**", if you want to copy this information to the Sales Area. **Attention:** If you try to modify "purchase" or "sales" dimensions by setting any of them to "0", some SAP versions return the following error: `256000267 di-api the unit of length, width, height or weight cannot be set if length, width, height or weight is 0` In this case, you can only modify these values in the standard SAP Item Master Data window.
Weight	Input of the net weight

© 2026 Boyum IT Solutions A/S

Field	Description
	Weight. Enter the weight of the item, followed by the weight measure. Note: This is used as reference weight in Beas bin location management for transactions. If used with weight calculation in bin location management, it should not be changed here.
Factor 1-4	Input of the quantity, which is a multiple of various factors. If e.g. a fence is purchased, the corresponding default dimensions must be considered. Factors 1–4 Enter the quantity which is a multiple of several factors. For example, if you buy a fence, you have to consider its measurement standards. The Factor fields are used as variables, so you can enter the proper values to calculate the appropriate quantity. The default value is one (1). The values that you enter in the item master data appear on marketing documents. The factor fields are used as variables so that the corresponding values can be entered into these fields for calculation of the relevant quantity. (1) is displayed as a suggested value. The values entered in the item master data are displayed in the documents.

go to Advanced Production tab

7.1.5 Sales Data

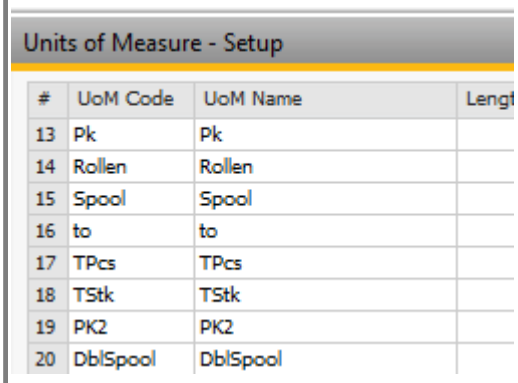
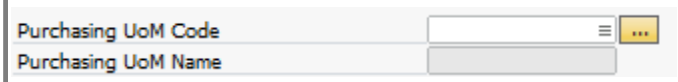
In this tab you can manage Sales Data for the item.

PATH: Inventory > Item Master Data > Sales Data

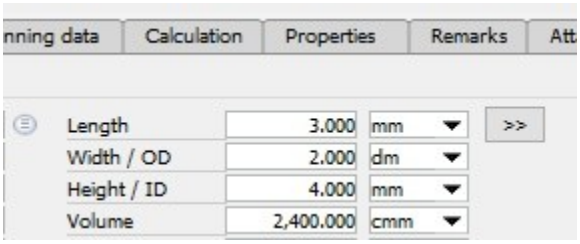
Field Description

Field	Description
Sales UoM	Input of UoM Name SAP Business One standard does not support defined UoM Definition in item master Data. The UoM is only a name.

© 2026 Boyum IT Solutions A/S

Field	Description
	With Beas integration, the name is the UoM ID. It must be defined in Unit of Measure Setup. Beas can work correctly only if UoM Code and UoM Name are exactly the same:  Units of Measure - Setup | # | UoM Code | UoM Name | Lengt | | --- | --- | --- | --- | | 13 | Pk | Pk | | | 14 | Rollen | Rollen | | | 15 | Spool | Spool | | | 16 | to | to | | | 17 | TPcs | TPcs | | | 18 | TStk | TStk | | | 19 | PK2 | PK2 | | | 20 | DblSpool | DblSpool | | The system checks the existence of UoM Code in all UoM name fields. It inserts the correct Code or make the field empty if the UoM Code does not exist. Purchasing UoM Name Manual ***Example:*** If you insert "sp" + TAB, the System inserts "Spool" Use the golden button with three points to choose the UoM from the list. Note: Many Beas functions, especially MRP and Work order can only work properly if the correct UoM is defined. **Working with UoM Group** If a UoM Group is activated, the system displays two UoM fields. Beas always uses Purchasing UoM name and does not support the code.  Purchasing UoM Code Purchasing UoM Name This only works if UoM Code and UoM Name are the same.

© 2026 Boyum IT Solutions A/S

Field	Description
	UoM Code general ***See*** Concept of UoM
Items per Sales UoM	Input of item quantity per sales UoM .
Packaging UoM (Sales)	Input of packaging UoM for sales, which is a multiple of the unit of measure.
Qty. per Packaging UoM	Definition of quantity per packaging UoM.
Length, width A/D, height I/D, volume	Dimensions Define Length / Width / Height and Volume for this item related to the Purchase Area (not the Inventory UoM). Enter the dimensions of the purchase item. If you defined the units of measure when you configured the system, enter the measurements and press TAB and the system automatically enters the measurements of the purchase item. In addition, enter the values for the length, width, and height to calculate the volume of the item. Alternatively, you can enter the volume value without entering the length, width, or height. The System automatically calculates the "Volume" if you change one of the other fields-  Beas uses this information for Warehouse – Bin Management – Calculate Volume. Click on "**>>**", if you want to copy this information to the Sales Area. **Attention:** If you try to modify "purchase" or "sales" dimensions by setting any of them to "0", some SAP versions return the following error: `256000267 di-api the unit of length, width, height or weight cannot be set if length, width, height or weight is 0`

© 2026 Boyum IT Solutions A/S

Field	Description
	In this case, you can only modify these values in the standard SAP Item Master Data window.
Net Weight	Input of the net weight.
Factor 1-4	Input of the quantity, which is a multiple of various factors If e.g. a fence is sold, the corresponding default dimensions must be considered. The factor fields are used as variables so that the corresponding values can be entered into these fields for calculation of the relevant quantity. (1) is displayed as a suggested value. The values entered in the item master data are displayed in the documents.

go to Advanced Production tab

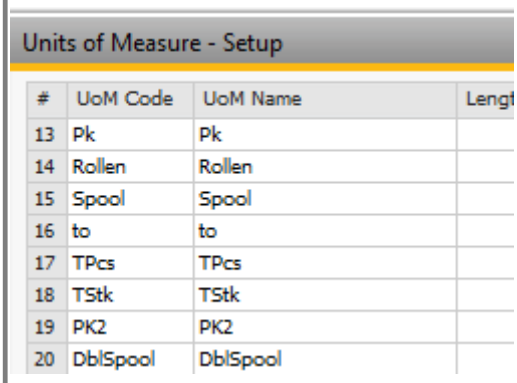
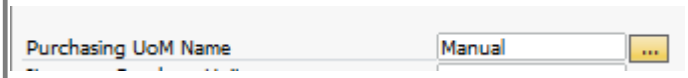
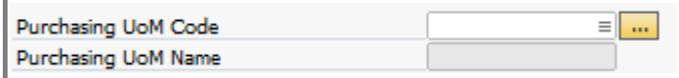
7.1.6 Inventory Data

In this tab you can manage Inventory information for the item.
This is visible only if in case of warehouse-managed items.

PATH: Inventory > Item Master Data > Inventory

Field	Description
Set G/L Accounts By	Selection of default G/L account method from the available options for the item: • Warehouse - All G/L accounts defined on warehouse level. • Item group - All G/L accounts defined on item group level. • Item level - All G/L accounts defined on item level.
UoM Name	Defines the unit of measure of the item when it is stored and inventory is managed, e.g. crate, carton, box. Only visible when "UoM Group" is not set to Manual. If this field is left empty, the field Production UoM will also be empty, and Beas shows no decimals in the Item Structure Report and does not display the Unit of Measure field when this material is included into another item's Bill of Materials. SAP Business One standard does not support defined UoM Definition in item master Data. The UoM is only a name.

© 2026 Boyum IT Solutions A/S

Field	Description
	With Beas integration, the name is the UoM ID. It must be defined in Unit of Measure Setup. Beas can work correctly only if UoM Code and UoM Name are exactly the same:  Units of Measure - Setup | # | UoM Code | UoM Name | Lengt | | --- | --- | --- | --- | | 13 | Pk | Pk | | | 14 | Rollen | Rollen | | | 15 | Spool | Spool | | | 16 | to | to | | | 17 | TPcs | TPcs | | | 18 | TStk | TStk | | | 19 | PK2 | PK2 | | | 20 | DblSpool | DblSpool | | The system checks the existence of UoM Code in all UoM name fields. It inserts the correct Code or make the field empty if the UoM Code does not exist.  Purchasing UoM Name Manual ... ***Example:*** If you insert "sp" + TAB, the System inserts "Spool" Use the golden button with three points to choose the UoM from the list. Note: Many Beas functions, especially MRP and Work order can only work properly if the correct UoM is defined. **Working with UoM Group** If a UoM Group is activated, the system displays two UoM fields. Beas always uses Purchasing UoM name and does not support the code.  Purchasing UoM Code ... Purchasing UoM Name This only works if UoM Code and UoM Name are the same.

© 2026 Boyum IT Solutions A/S

Field	Description
	UoM Code general ***See*** Concept of UoM
Weight	Input of the net weight Weight. Enter the weight of the item, followed by the weight measure. Note: This is used as reference weight in Beas bin location management for transactions. If used with weight calculation in bin location management, it should not be changed here.
Valuation Method	This option is only relevant for continual inventory management. Selection of one of the following options: Moving average Moving average - This method is based on the calculation of the average costs for the item in each purchasing and sales transaction.SAP Business One calculates it automatically in the background. Beas returns this price at pricing, it is always calculated in home currency. Standard Standard pricing allows to select a fixed price which will be used for all transactions. The standard price is stored in Item master / inventory data / item costs. The price can be changed only as long as no journal entries exist. The price is always stored in home currency. As soon a journal entry exists, the standard price can be changed only via **Inventory > Inventory transactions > Inventory revaluation**. FIFO Another continual inventory management system in which the first goods purchased are the first sold or issued without consideration of the current goods movements.The valuation method can only be changed as long as no material has been posted. **Pricing Precalculation:** For Fifo the following formula is used:

© 2026 Boyum IT Solutions A/S

Field	Description
	Total value of all items currently in stock - valued by Fifo : total stock = average value This value is used as default for all calculations and for posting in material and assemblies. For issue Fifo principle applies. If there is no stock, the last purchase price is used as reference. Series / Batches From SAP Business One 9.1 the valuation method "Series / Batches is available. This is a moving average method per series/batch. **Pricing Precalculation:** The average price of all batches in stock is determined. This value serves as default for all calculations and for posting in material or assemblies. For issue, the average pricing per batch applies. If there is currently no stock, the last purchase price is used as reference.
Item Cost	Input of the costs of the item for the default calculation method. The value is updated and calculated for all inventory entries in the Moving Average and FIFO fields.
Manage Inventory by Warehouse	This option is used to specify the calculation method for minimum and maximum inventory quantities. If the flag is set, the total quantity of the fields Minimum warehouse stock, Req. warehouse stock and Max. warehouse stock is displayed in the warehouse table.
Inventory Level	Set of fields used to define the inventory level required to be ordered and stored. SAP Business One has three fields for determining the optimal inventory levels, Required (reorder point), Minimum, and Maximum. Fields Required and Minimum are considered by MRP for calculating the purchases recommendation. If you need to define these

© 2026 Boyum IT Solutions A/S

Field	Description
	values by Warehouse you have to do it in the Standard SAP Business One Item Master Data window, inventory tab.
Required (Purchasing UoM)	Input of the required inventory levels for this warehouse. Value deposited in purchasing unit, it is supported in order recommendation report, if no minimal stock was entered. The quantity required to reach to the minimum warehouse stock is displayed in the Required (purchasing UoM) field. If the release of warehouse stock under the minimum limit is selected in the document settings, the system issues warnings if the minimum warehouse stock is not reached. The system does not permit further input of inventory documents if the warehouse stock has reached the maximum quantity.
Minimum	Input of the minimum warehouse stock quantity for this warehouse.
Maximum	Input of the maximum warehouse stock quantity for this warehouse.

Set Default Whse: SAP function to define the warehouse as a default for the item.

go to Advanced Production tab

7.1.7 Planning Data

In this tab you can manage MRP scheduling for the item.

PATH: Inventory > Item Master Data > Planning

Field	Description
Planning Method	Determines the planning method of the item This switch must be activated if item procurement is to be verified through the MRP run (Beas). Selection of one of the following options: • Scheduling (MRP): Planning item procurement with the scheduling system • None: Item procurement is not planned via scheduling, and no production order or order recommendation is created for the item.

© 2026 Boyum IT Solutions A/S

Field	Description
	If dealing with an assembly, it is broken down independent of planning method. Its subordinated items can create a demand in order recommendation report. In BoM you can override the planning method. For more notes ***see*** BoM - Planning.
Procurement Method	Defines the mode of procurement **Make** – Scheduling creates production order recommendations for the item. All higher-level items should be defined as manufacturers so that the requirement can be calculated for the subordinate items during scheduling. In the case of a bill of materials for sales or assembly, no actual production order is output for the higher-level items, only the requirements for the subordinate items. **Buy** – Scheduling creates purchase order recommendations for the item. The Buy method should be selected for the subordinate items of the lowest level of the Bill of materials for items which are not part of the Bill of materials.
Component Warehouse	In MRP calculations, the application needs to determine the warehouse of the required component items. For more information ***see*** SAP Documentation.
Order Interval	Select one of the defined intervals or select **Define New** to open **Order Interval** – Setup window. For more information ***see*** SAP Documentation.

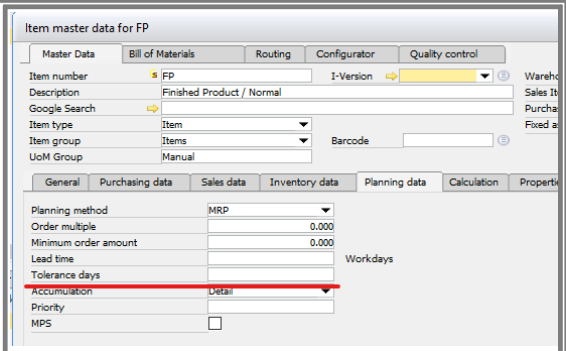
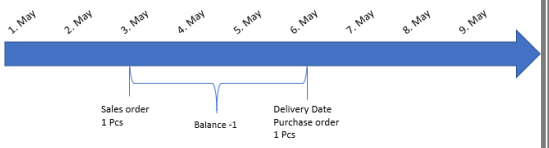
© 2026 Boyum IT Solutions A/S

Field	Description
Multiple order	Determine the multiple order for purchases and MRP requirement coverage calculation Enter a numeric value specifying the lot size for scheduling. Relates to inventory unit. This affects work order and purchase order generation via the MRP run. ***Example***: Multiple order = 10 Purchase order quantity 8 is input or transferred. It is not proposed to increase the quantity to 10. ***Example***: Multiple order = 10, production lot size = 5 Production quantity 8 is input or transferred. It is not proposed to increase the quantity to 10. 2 work orders are created for every 5. Multiple orders are considered in MRP - requirement coverage calculation. ***See*** MRP wizard – Breakdown replenishment – Consider multiple orders.
Minimum Order Qty	Enter a value, specifying the minimum lot size Generally, at least the specified amount is purchased. This is a default, no fixed value. Quantity is in Inventory unit Affected - Scheduling: Create purchase orders - Breakdown sub-assemblies. ***See*** MRP wizard – Breakdown replenishment – Consider multiple orders.
Lead Time	Input of the number of work days from the date of the order to the date of goods receipt. This value can be calculated automatically for in-house production. ***see*** calculate resources

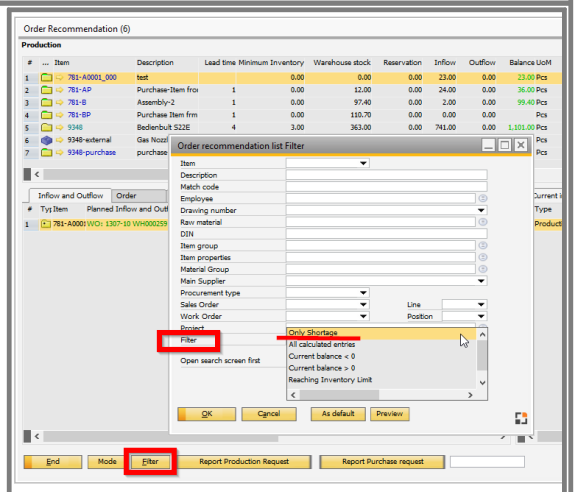
© 2026 Boyum IT Solutions A/S

Field	Description
	Resource and lead time calculation video The lead time for in-house parts is calculated according to quantity in the MRP run (this can be optionally deactivated in the MRP run). You can set up lead time to be used instead of operation times in general. ***See*** Configuration wizard – Capacity planning Lead time is always specified in work days. A lead time of 0 days is marked as an "error" by the data check. For assemblies the lead is the production time of the assembly without consideration of sub-structures. ***Example:*** Given structure: - X011 with 3 days --- contains order related X012 with 2 days ------- contains storage related X013 with 4 days Lead time for X011 in sum 5 days (order related) Total lead time 9 days, if X013 is not covered from stock
Tolerance Days	Number of work days for allowed shortage In **Item Master Data > Planning Data tab** you can define Tolerance days.

© 2026 Boyum IT Solutions A/S

Field	Description
	 Related to order scheduling: If there is negative stock in the time line, the item will be shown as shortage in MRP. Here you can enter the number of days. Negative balance is tolerated. ***Example:*** Stock = 0 Sales order = 3rd May Purchase order delivery date = 6th May Material comes 3 days late  If the tolerance date for this item is defined with 3 days or more, the result is: OK If the tolerance date is < 2, MRP must display this piece of information. In MRP the filter "Only shortage" means: Display all entries which have a negative balance in the timeline.

© 2026 Boyum IT Solutions A/S

Field	Description
	 **(MRP Filter - Predefined Filter)** In this example the item has a balance of 0, but a negative balance between 3rd and 6th May MRP displays this item if the item has "tolerance days" < 3 days. MRP does not display this item if the item has a "tolerance days" > 3 days. **Negative Balance in past** Negative Balance in the past is ignored entirely. The calculation for the time area starts from the current Date. ***Example:*** Today is 5th May Sales Order is 3rd May Delivery = 6th May The system calculates: Balance is negative from 5th – 6th May = 1 day.

go to Advanced Production tab

© 2026 Boyum IT Solutions A/S

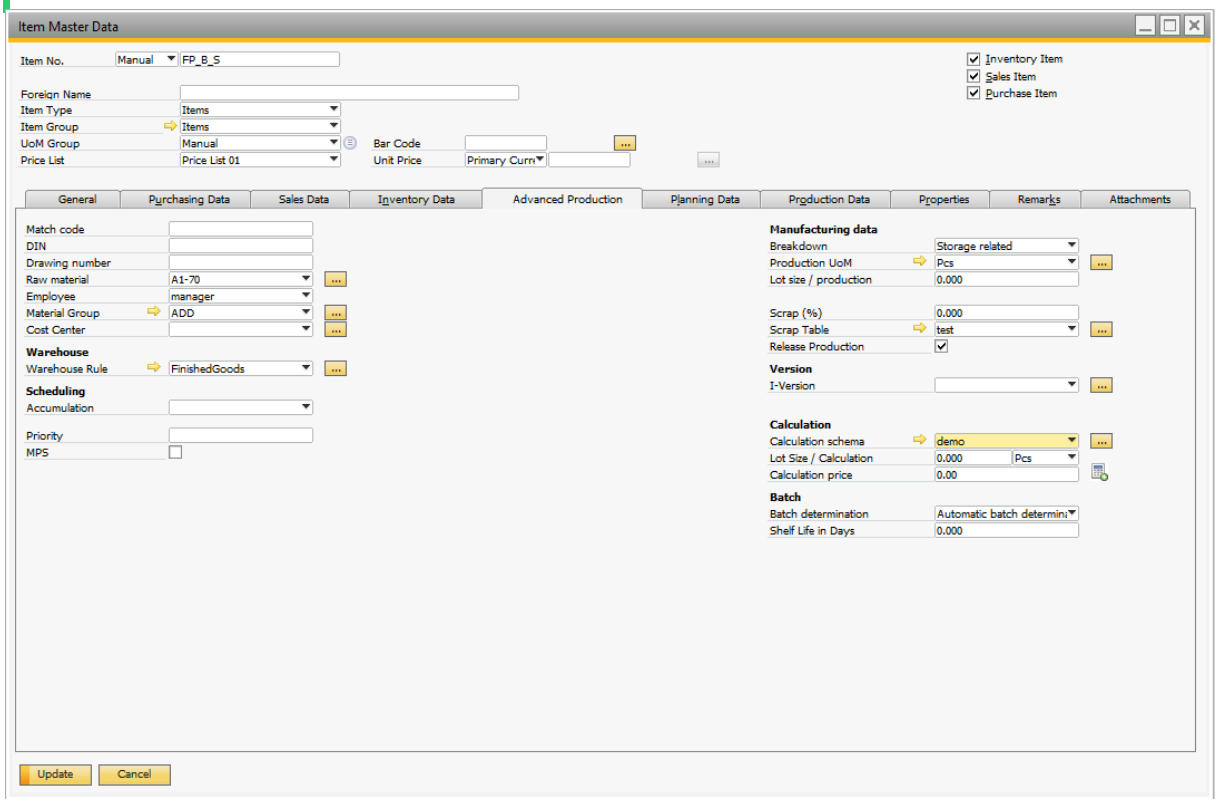
7.1.8 Advanced Production

This tab stores all types of additional Beas-specific information.
The tab becomes visible by activating SAP integration in the Configuration wizard.

The logic is to store all Beas functions in one tab.
Beas fields for these functions are grouped by areas: General, Warehouse, Scheduling, Manufacturing Data, Version, Calculation, Batches, Serials (***see*** image below.)

By choice, these related fields can be moved to any desired place in the Item Master window with the help of **SAP > Tools > "Edit form UI..."** function.
The tables of the collected functions are available in certain drop-down menus and you can access editing windows by clicking the yellow arrow left of the fields (***see*** image below.)
To access all tabs and/or functions of the old Beas Item Master Data window, ***see*** Extended Production Right-Click menu.

PATH: Inventory > Item Master Data > Advanced production



General

© 2026 Boyum IT Solutions A/S

Additional information about the item

Warehouse

Additional rules

Scheduling

Additional Planning information

Manufacturing Data

Advanced Production information

> Note: Certain entries are only visible related to Breakdown ID.

Version

All information for Item Version control

Only visible for batch- or serial-managed items.

> Note for old installations: It is possible to activate this for all item types.

Calculation

Calculation properties. Only possible for Items with **Planning Data > Procurement Method = Make**

Or if activated in Configuration Wizard - Calculation - Precalculation - Calculation purchase items.

Serial/Batch Numbers

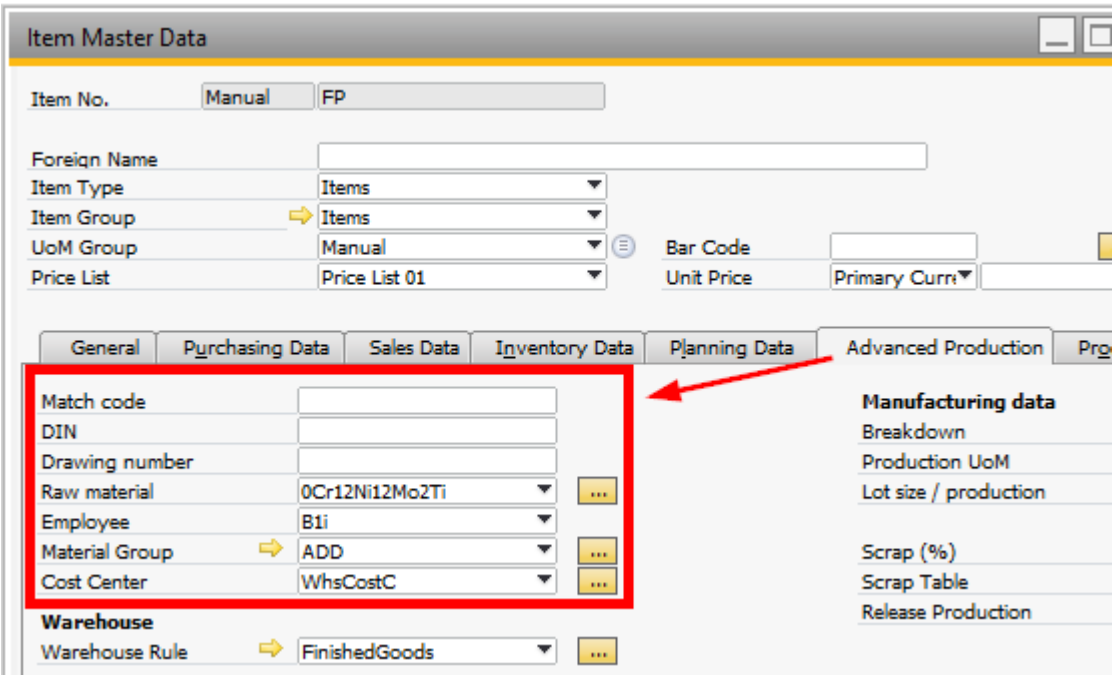
Additional Properties for Serial/Batch-managed items. Only available for these type of items.

back to Item Master Data

7.1.8.1 Advanced General

This section of the Advanced Production tab includes Beas fields associated with general information regarding the item.

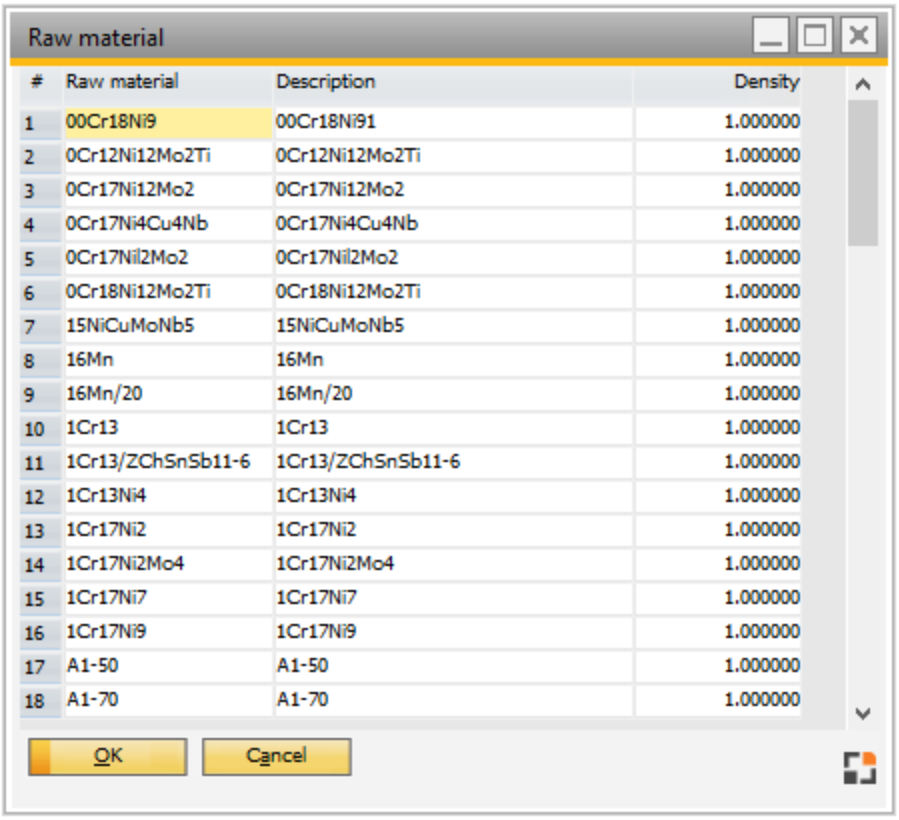
© 2026 Boyum IT Solutions A/S



Field	Description
Match Code	The match code serves as search field to sort and display the part master data according to a criterion created by the user. The match code can be an abbreviation of the initials of supplier/customer name and location or the name of a parts family. All alphanumeric symbols are allowed; the sort order is number-digit. Furthermore, the match code is the key in the info list of the part master.
DIN	This text field serves to document DIN numbers if the master part is a standard part and is registered in a standardization institute.
Drawing number	Technical drawing number. This is shown in Beas at all key locations. This field can be used for filtering and searching in several Beas windows.
Raw material	The button with [...] opens the Raw Material definition. ⊟ Raw material the item is made of Raw Material info defines the raw materials of an item. In the Raw Material definition you can define the Raw Material Id, the Description, Density, up to 4 Properties and a price. Access: Edit Raw Material, License: Basic License, Windows setting are supported.

© 2026 Boyum IT Solutions A/S

Field	Description
	You can define the raw material in the item master data and Bill of materials position.



Window basis_wst_browse.psr

Example for Raw Material:

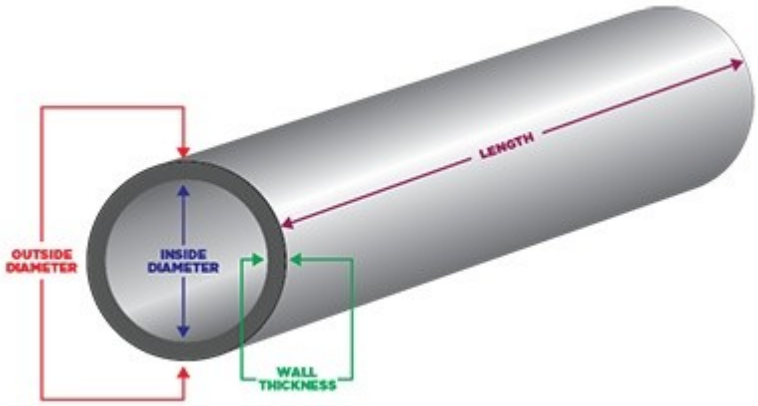
A sheet of metal is made of aluminum or iron.

A pipe is made of plastic or stainless steel.

Used for

- Work order Variant system: Define Raw Material by formula.
- Work order Variant system: Define Machine: permitted number of rpm .
- Calculation: Calculate price by Raw Material (own formula system).
- Work order report: Report additional properties for example Melting temperature.
- Conversion between the units of quantity if the density stored in the raw material is required for this. ***See*** Unit of Measurement – Conversion.

© 2026 Boyum IT Solutions A/S

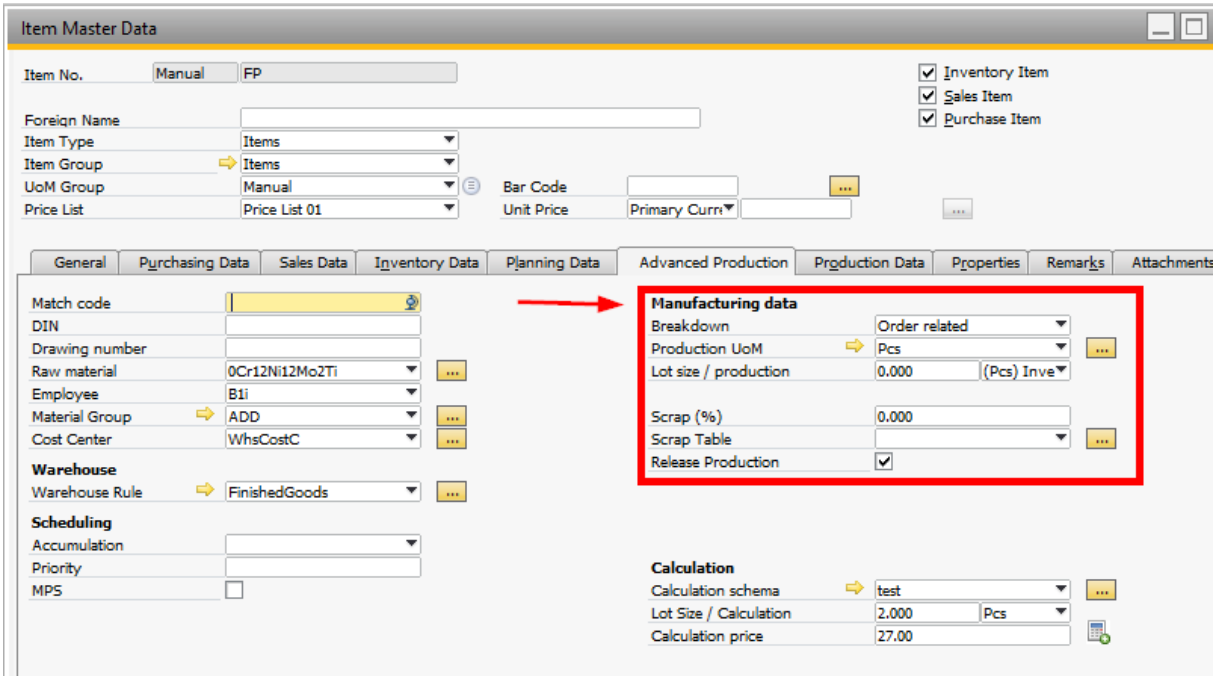
Field	Description
	Example: Pipe in a Bill of Materials Position Inventory UoM is kg Consumption is Pcs with length, height and width.  Formula: `((length * od * pi()^2) - (length * id * pi()^2) ) * density` For more information ***see*** Unit of Measures.
Employee	Employee responsible for maintaining the item master data.
Material Group	The button with [...] opens the Material group browse window. The yellow arrow left of the field opens the Material Group editing window. Divide the item into groups Beas offers a grouping possibility with the Material Group field. This group is useful for filtering, searching, production planning, programming (since it is integrated with MRP and APS on the sorting and filtering options), and for the calculation function (a surcharge rate can be linked to each Material Group). The material surcharge is stored for Precalculation. ***see*** Material Group If the user has extended authorization for routing or BoM, this field is locked. ***See*** Authorization – Extended
Cost Center	Button: Cost Center window SAP

© 2026 Boyum IT Solutions A/S

back to Item Master Data

7.1.8.2 Advanced Warehouse

This section of the Advanced Production tab includes Beas fields associated with warehouse-related information.



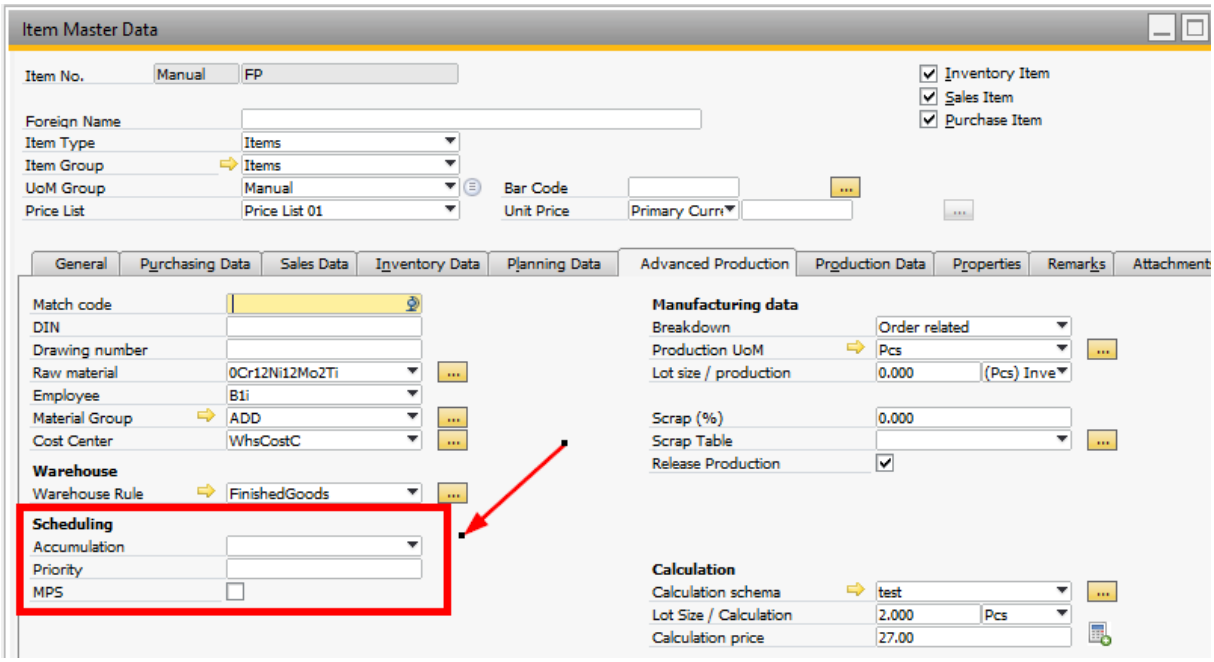
Field	Description
Warehouse rule	A group of warehouse rules can be stored. ***See*** Warehouse rules. Select a warehouse from the drop-down. Once you select the Warehouse rule, the yellow arrow appears left of the field. Click the arrow to edit the warehouse rule. Click the [...] button to open the warehouse rules list.

back to Item Master Data

© 2026 Boyum IT Solutions A/S

7.1.8.3 Advanced Planning

This section of the Advanced Production tab includes Beas fields associated with MRP scheduling.



Field	Description
Accumulation	Relates to view / calculation in the MRP run **Detail** Every requirement originator (forecast, purchase order, sales order, etc.) is displayed separately. This setting makes sense if purchasing on an order basis or in the case of high-quality goods. **Day / week / month / sum** The requirement originators are accumulated according to the period selected here: e.g. requirement per day – only the accumulated quantity issued and received per day / week / month is displayed in the MRP run in this case, not the requirement originator. Performed for "Sum" setting. If detailed specification of the requirement originator or resource is not necessary and high data volumes are incurred, this type of

© 2026 Boyum IT Solutions A/S

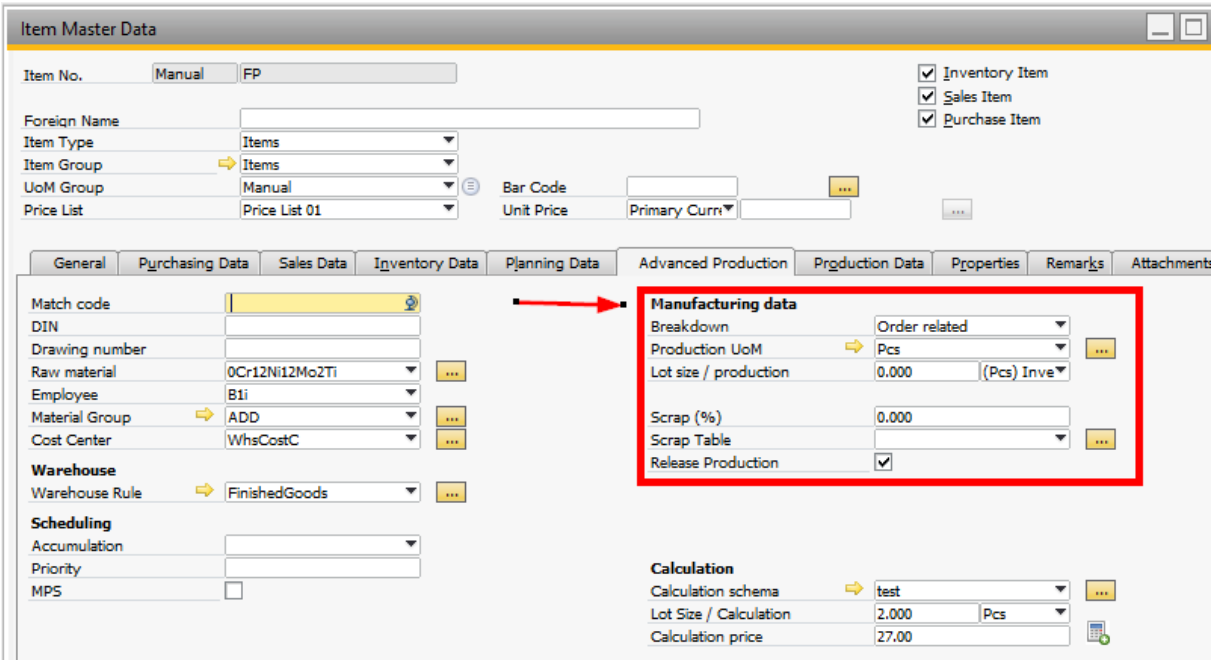
Field	Description
	accumulation is recommended. The calculation time is shortened, and the view is easier to understand. **Note** This setting is available in MRP, as well. The rule with the highest summation applies in every case. Purchase order for several instances of the same Item with different delivery dates is supported. The items therefore appear in several lines in Order recommendation. ***See* MRP scenario > Detail > Peggings**. ***Example:*** Item: Detail, MRP: Day: summed by day Item: Tag, MRP: Detail: only this item is summed by day Item: Tag, MRP: Month: summed by month ***see*** MRP Wizard – Planning scenarios – Detail Calculation duration
Priority	MRP runs can be sorted by priority. If a material has a high priority and a requirement, the requirement-originating assembly also receives the corresponding priority. You can configure whether a high or low number displays a high priority in the Setup Wizard (ascending or descending).
MPS	Activate if an item is scheduled via MPS.

back to Item Master Data

7.1.8.4 Advanced Manufacturing data

This section of the Advanced Production tab includes Beas fields associated with Manufacturing data.

© 2026 Boyum IT Solutions A/S



Field	Description
Breakdown	Define the Breakdown type. ***See*** Concept breakdown
Production UoM	The unit of measure for consuming this item when it is a component of another items bill of materials during production. ***See*** Edit item's unit of measure All other units are managed in the Purchase Data, Sales data and Inventory Data tab or centrally using the orange arrow in the "Units of Measure" window. Quantity units for production In master data the BOM quantities and the work order quantities are always indicated in production UoM The unit can be used in which material was actually withdrawn: for example storing in liters, but withdrawal in kg. In all functions, where required quantity and

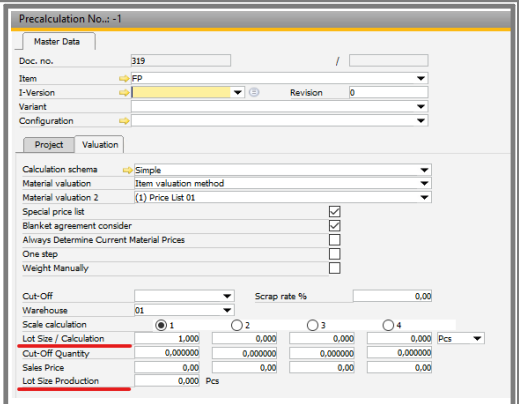
© 2026 Boyum IT Solutions A/S

Field	Description
	stock are indicated, the total stock is always displayed in inventory UoM, as otherwise no comparison of planned quantity, posted quantity and stock would be possible. A special case is single material posting There, the withdrawal quantity can be given in production UoM, which is converted to Inventory UoM immediately. The conversion from inventory UoM to production UoM is defined in Quantity units – Conversion Note: All other units are managed in Purchase/Sales/Inventory tabs or using the orange arrow in window "Quantity units" The [...] button opens the SAP UoM setup table. The yellow arrow opens the Beas Unit of Measure editing window.
Lot size / production	Production lot size in warehouse unit. Define the max. Lot size for production in Inventory or Production UoM ***See*** concept Lot size **Limitations** If the lot size produces more than 10 Positions, the system asks if you want to continue. If the lot size produces more than 200 Positions, the system cancels the process with a message: *' Lot size is set to <losgr>. This corresponds to <summ> Positions created. Max. allowed are*

© 2026 Boyum IT Solutions A/S

Field	Description
	however <limit> positions. Creation is aborted (LimitLotSize)' It is possible to increate the limitation. Note on sub-structures: Lot sizes of order related sub-structures are considered only if activated separately. ***See*** Configuration wizard – Production – Create new. If the count of the created positions is larger than the limitation, the system ignores the lot size in the last position and displays an error message (*LimitLotSize)* ***Example***: 1000 Pcs, Lotsize = 1. 200 Positions created. Position 1-199 for 1 Pcs and Position 200 with 801 Pcs MRP Calculation: Ignores Production Lot size while calculating requirement based on sales order, forecast and other documents. Precalculation - Lot Size Precalculation supports Production Lot size **Lot size - Precalculation** - "Calculation lot size" is the default lot size for the calculation. - "Production lot size" is the maximum lot size and is relevant for the calculation of fix costs.

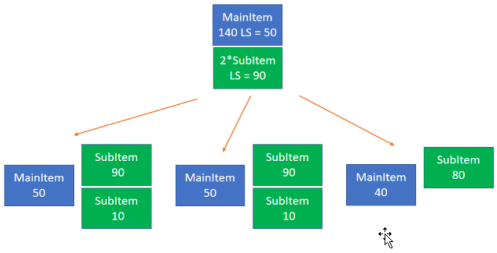
© 2026 Boyum IT Solutions A/S

Field	Description
	 *Window pk_haupt_edit.psr* The production lot size affects: - Setup times in a Bill of materials position. - Fixed times (Quantity per = 0) in routing positions. - Fixed surcharges. - Purchase prices (special price list). - Price per lot size In sub-components the calculation uses the production lot size. If you activate Configuration wizard > Production > Create > Sub-assemblies: Consider production lot size, the system uses the production lot size defined in the sub-component, otherwise the lot size of the main item. ***Example:*** Routing position 10 Min setup time, 5 Min Mach+Labor time Lot size calculation: 100, Production: 0 (ignore it) `Cost = 10 Min + 100* 5 Min = 510 Minutes * cost rate`

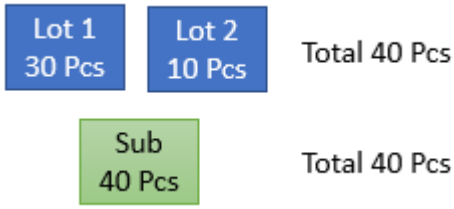
© 2026 Boyum IT Solutions A/S

Field	Description
	Total 100 Pcs Total 10 Min Lot size calculation: 100, Production: 30 In this case we must calculate the production `30 + 30 + 30 + 10 = 4 times`. `Cost = 4*10 Min + 100*5 Min = 540 Minutes * cost rate` Working with sub-assemblies If consider Sub Assemblies is activated, the system split the sub-assemblies too ***Example:*** Production 40 Pcs, Lot size 30 Pcs Sub assembly is order related, Production lot size = 0 Pcs (no lot size) This case is a WO position-related process. If an order-related sub-assembly has its own lot size, the system checks this, as well - but always per production level

© 2026 Boyum IT Solutions A/S

Field	Description
	from the parent item. ***Example*** : Lot size 20 Pcs In this case the setup time will be multiplicated with 4 in the sub assembly **2. Example for order-related sub-assembly:** - Main and sub-item are order related, the lot size of the main item is 50 - We need the sub-assembly 2 times per main item, the lot size of the sub-item is 90 - We want to produce 140 Units of the main item  <u>Result:</u> - We need to produce 3 lots for Main item (50 + 50 + 40) - For the first and second lot of the main item we need 2 lots of the sub-item (90 + 10) - For the last lot of the main item we need 1 lot of the sub item (80) <u>Stock-related</u> if the sub-assembly is stock-related, the sub-assembly ignores the lot size from

© 2026 Boyum IT Solutions A/S

Field	Description
	the parent assembly:  if the stock related sub-assembly has its own lot size, the system uses it without relation to the lot size of the parent item. Note: This is working differently than in Beas 2020.11 or older. If you need the old functionality, you can change this in a user event. ***See*** Script documentation.
Cut-off %	Portion of cut-off Only available when Mode of Procurement is defined as "Buy". This field is used to define a percentage of the material that is wasted when it is used as raw material for production. For example: if Cut-Off (%) is set to "10" and the item is linked to a Bill of Material with the quantity of "50", Beas changes the quantity to "55" in the position when a Work Order is created ("50" from Bill of Materials plus "5" from 10% cut-off rate). Cut-Off (%) is also considered while calculating cost in the pre-calculation functionality. Video: Scrap on Item Level ***see*** Scrap, Calculated scrap, Option consider cut-off, Production item – cut-off

© 2026 Boyum IT Solutions A/S

Field	Description
Scrap %	Portion of scrap This value is used for Precalculation. Only available when Mode of Procurement is defined as “Produce”. Scrap factor for assemblies relates to the material requirement for an assembly rather than the assembly. **Assemblies:** Scrap factor for assemblies is not related to the assembly requirement, but only to the material requirements of this subassembly. In Precalculation, there are only an information on quantity for BoM item and assembly. This creates an additional requirement for the assembly. If then a work order is created, the behavior may vary. **Phantom assembly** Scrap factor is calculated and entered as "calculated scrap" into the BoM item and taken into account. **Order-related Item** BoM Order related items do not apply the scrap factor. The system generates a work order position for the order related item and the scrap factor is applied to the sub work order BOMs only. **Purchase part:** The scrap factor is calculated in the work order as total value, added to the cut-off value and other scrap factors and entered to the BoM column calculated scrap.

© 2026 Boyum IT Solutions A/S

Field	Description
	Precalculation: entered in **Master Data > scrap** and also taken into account. Note: For using order time receipt function and reporting scrap ***See*** Configuration wizard – Backflushing Video: Scrap on Item Level ***see*** Concept Scrap, Calculated scrap, Option consider cut-off, Production item – cut-off
Cut-off / Scrap Table	Cut-off factor and cut-off surcharge of the item. Define item based scrap on table level. The Scrap defined in Scrap/Cut-Off Table The scrap factor affects: purchase parts: "calculated scrap" assemblies: material requirement of the subassembly sub-assemblies: surcharge for scrap in sub-components Note • using order time receipt function and reporting scrap ***See*** Configuration wizard – Backflushing • no consideration in Precalculation Video: Scrap on Item Level ***see*** Concept Scrap, Calculated scrap, Option consider cut-off, Production item - cut-off Click the [...] button to open the Cut-off table.
Release Production	Release for production? If disabled, no work order may be created for this item.

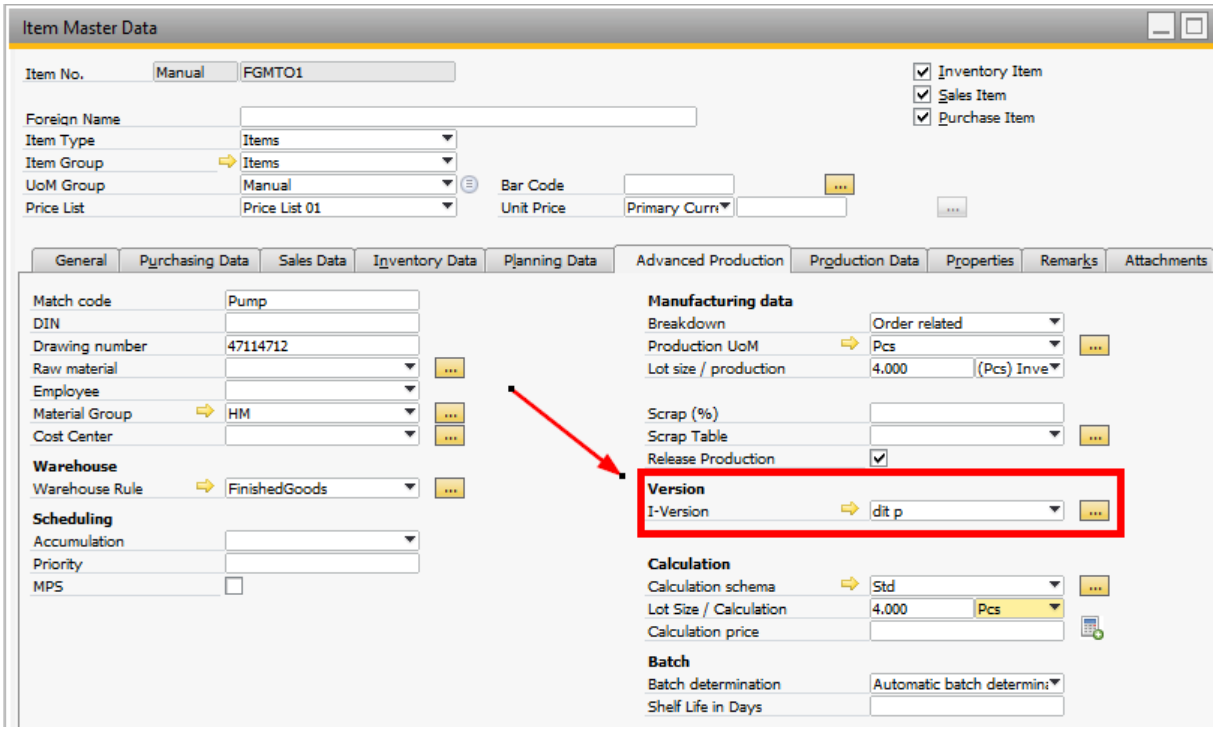
© 2026 Boyum IT Solutions A/S

Field	Description
	See WO Document position.

back to Item Master Data

7.1.8.5 Advanced - Version

This section of the Advanced Production tab includes Beas fields associated with Item-version management.



Field	Description
I-Version	Select an item version from the drop-down. The yellow arrow opens the Item version editing window. The [...] button opens the I-Version browse window with a list of existing versions of the current item.
Administration	⊟ Methods of item administration Here you can define how the BoM and routing

© 2026 Boyum IT Solutions A/S

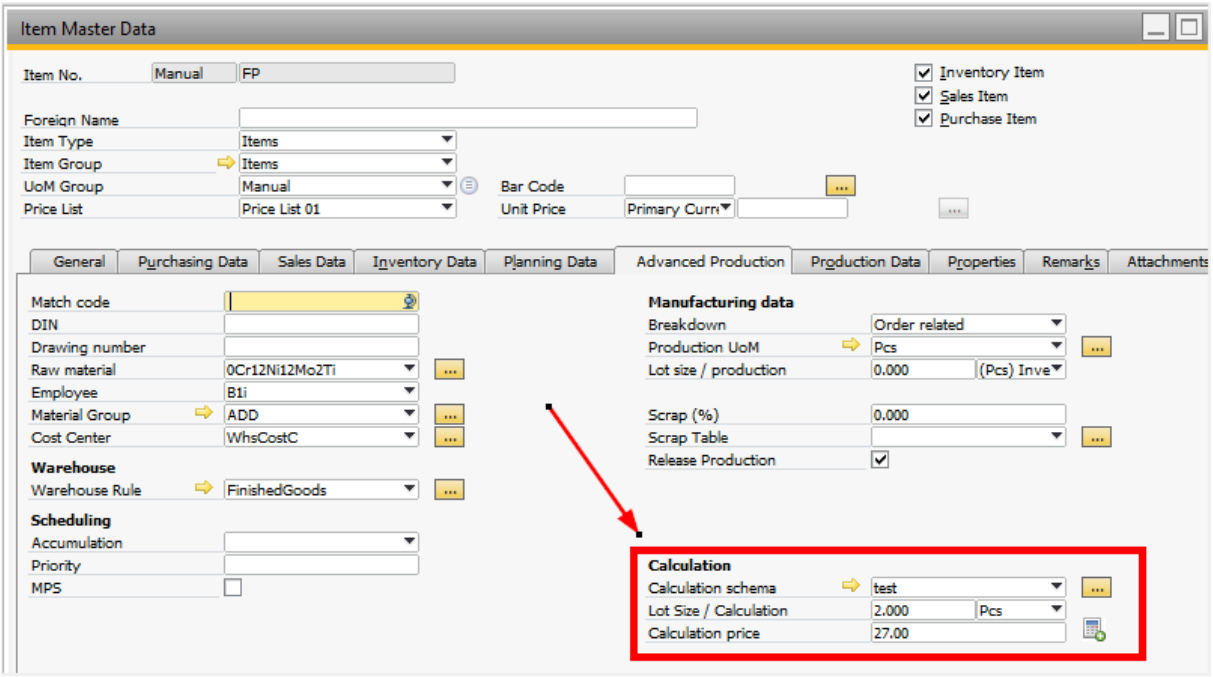
Field	Description
	are linked to the item. Only editable if an Item, a batch, or serial managed item and a Version is defined. **Default** = ID of BoM and routing are the same as the item ID. **Extended view** = like default, but in structure view the BoM / routings are displayed per version. This setting affects only the display. **Separate BOM** = Item ID, BoM ID and routing ID can be different. In the item version you store which BoM is to use for the item and for the version. In the BoM you define which routing to use. To activate this field: 1. Click icon right of Item Version – open list of all Item Versions 2. Define a version and go back to the item window 3. Choose the Administration (this field) and update the window. Now full functionality is available for this item.

back to Item Master Data

7.1.8.6 Advanced Calculation

This section of the Advanced Production tab includes Beas fields associated with Precalculation.

© 2026 Boyum IT Solutions A/S



Field	Description
Calculation schema	Default – Calculation schema. Defines which calculation schema to be used for Precalculation and work order valuation. Work order creation: If Calculation schema is defined in the Configuration wizard the Beas ignores the setting in Item Master data. If no Calculation schema is defined in the Item Master Data and Configuration Wizard, Beas uses Schema "Std". ***See*** Configuration wizard Calculation schema. The [...] button opens the window listing all existing Calculation schemas. The yellow arrow opens the Calculation schema editing window.

© 2026 Boyum IT Solutions A/S

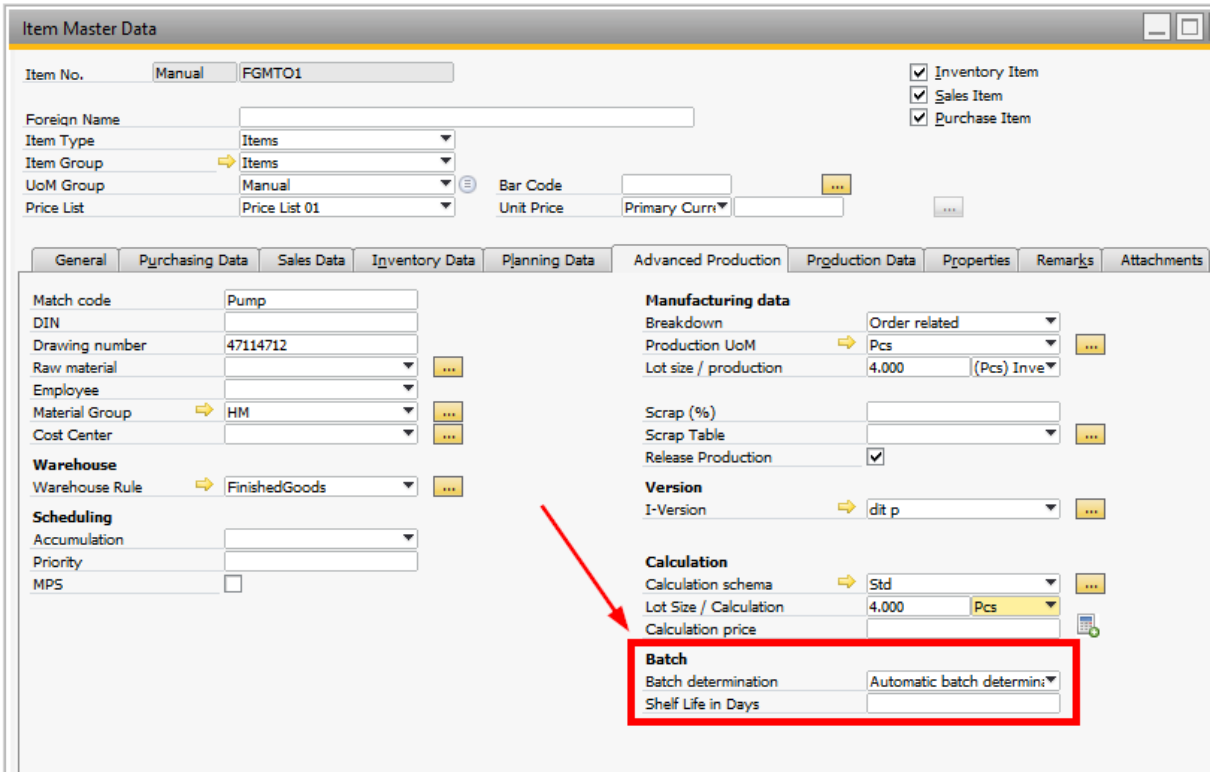
Field	Description
Lot size / Calculation	Predefined calculation lot size in warehouse units. Define a batch size for calculations. Pre-calculations can be executed using predefined batch sizes. Batch Calculation always uses the Lot size defined in this field. The Unit of measure is displayed. This can be defined per Inventory or Production UoM ***See*** Concept Lot size
Calculation price	Manually include a price to be used as reference for postings and calculations. However, after running a Batch Calculation process, Beas updates this field with the actual calculation value. The Unit of measure is displayed right of the field. ***See*** Edit batch-calculation – fill calculation price The calculator icon opens the Beas "Calculation tab" in a separate window.

back to Item Master Data

7.1.8.7 Batch

This section of the Advanced Production tab includes Beas fields associated with Batches.

© 2026 Boyum IT Solutions A/S



Field	Description
Batch determination	Determination options Set up batch determination Beas can generate the batch automatically for a receipt transaction. Here you can set up whether the batch is entered manually or generated automatically when posing in material. **Batch according to material**

© 2026 Boyum IT Solutions A/S

Field	Description
	If this option is selected, Beas creates the batch of the finished product with the same number as the batch of the last consumed material. **Example:** ***Example 1*** Assembly: "Paste y in container x" Bill of Materials: Paste y line 10 1. issue: batch aaa 2. issue: batch bbb If "Paste y in container x" is now produced and posted in, the batch number of "Paste y" of the last posting, that is batch "bbb" is assigned. ***Example 2*** Assembly: "Paste y in container x" Bill of Materials: Line 10, Material A001 (Batch-related) Line 20, Material A002 (Batch-related) Last Issue Line 20, A002, Batch aaa The System uses "aaa" as Batchnumber ***Example 3*** Last Issue Line 10 - A001, Batch aa1 and Line 20 – A002, Batch aa2 The System uses "aa1", because it is the first position **Temporary sorting issue:** At present the system is using the "BEAS_FTSTL"."POS_ID" as sorting, not the correct Sorting field "SortId". If you change the order inside the BoM, the program may not work properly. We are planning to fix this in Beas 9.3 PL 2 HF 1

© 2026 Boyum IT Solutions A/S

Field	Description
	Example: Booking according to material

© 2026 Boyum IT Solutions A/S

Field	Description
	Automatic batch determination Batches are generated automatically. Beas creates a batch number for the item based on the parameter in the Configuration wizard. **Enter batch manually** If activated, manual batch input is always performed for this item. **Attention**: Manual input is not supported at receipt creation by WEB Service. **Selection:** Manually – (*oitm.u_batchroh=M or NULL*) = Default Automatic – (*oitm.u_batchroh=N*) Batch according to material (only batches) – (*oitm.u_batchroh=J*) ***see*** Batch generation Configuration wizard – Materials management – Batch administration Configuration wizard – Goods receipt – Batches Production – Valuation and posting of the assembly – Batch administration Materials management – Manual postings – Batches
Shelf life in days	Defines the number of calendar days that are added to the items production date for calculating its expiration date. If a receipt is performed via Production or a Quality Control, release is performed, the shelf life date is reset from release. If the Manufacturing date is blank, the current date is used for calculation. If a manufacturing date is entered in the any receipt window, the date of expiry is calculated automatically (calendar days of shelf life are added to manufacturing date). ***see*** Batches to be verified

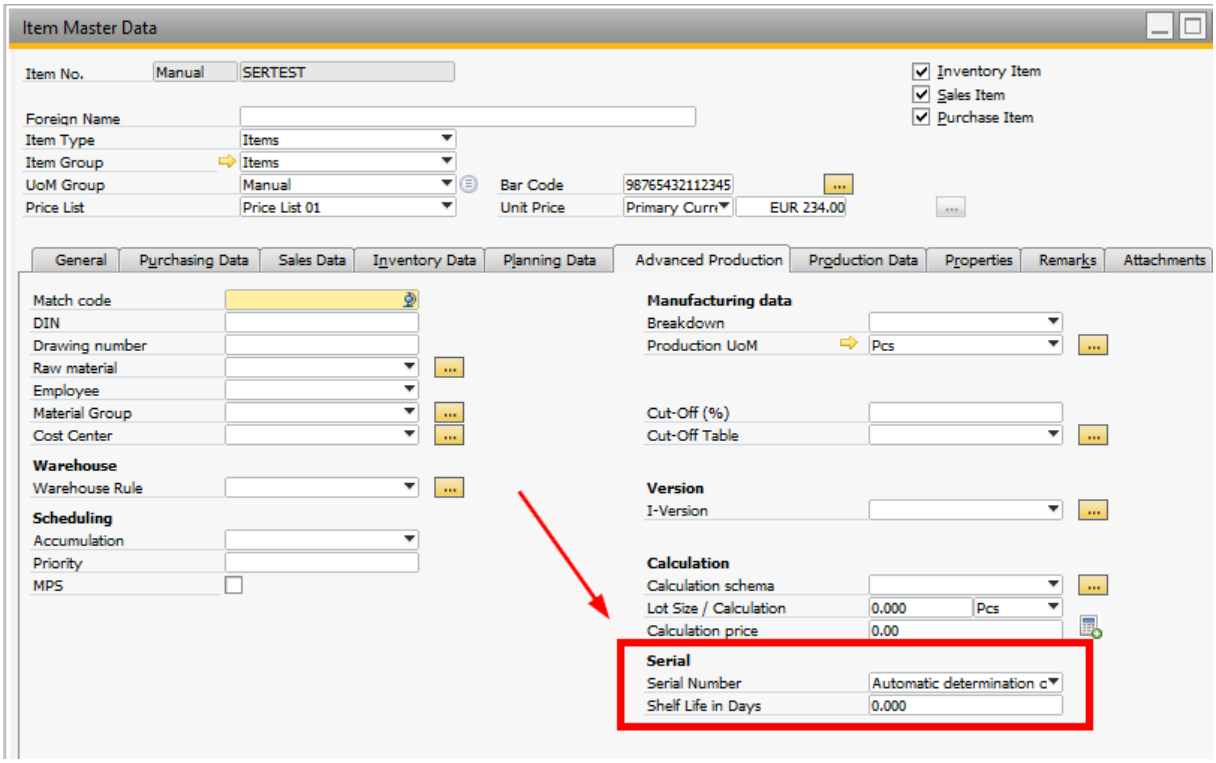
© 2026 Boyum IT Solutions A/S

Field	Description
	Calculation process: 1. Click on the calculator icon right of the field to open a calculator pop-up window. 2. Calculate the days, then click **Copy to Field** button and the result is copied in the field. 3. Click **Close** to close the calculator pop-up window.

back to Item Master Data

7.1.8.8 Serials

This section of the Advanced Production tab includes Beas fields associated with Serials.



Only visible for serial number related items.

Field	Description
Serial number	⊟ Set up determination of serial number.

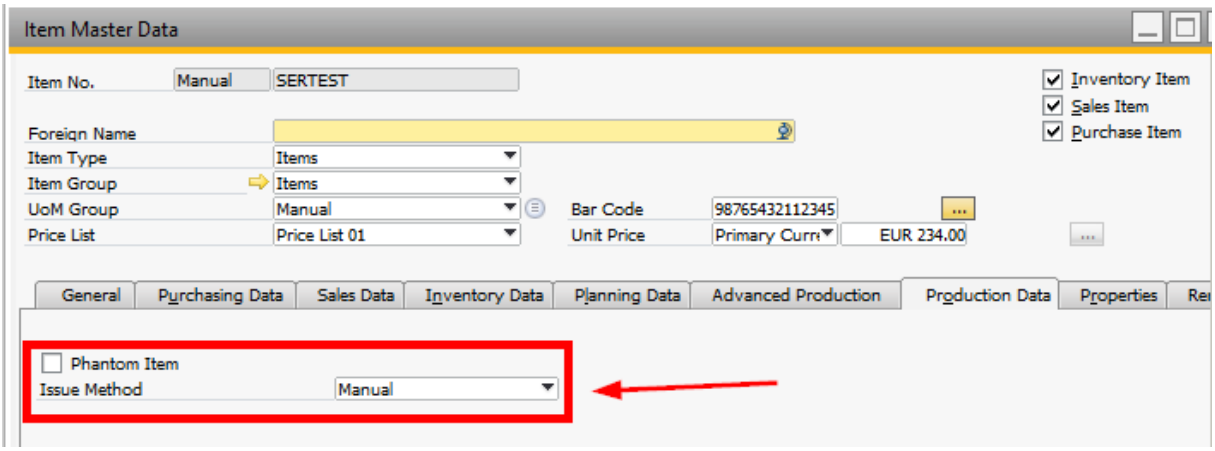
© 2026 Boyum IT Solutions A/S

	Automatic determination of serial number. Serial number is generated automatically at **Goods receipt** and **Production > Post in assembly** and in other functions. This is necessary, if working with automatic serial number reservation. ***See*** Serial number reservation For automatic generation the generation template needs to be defined in Configuration wizard. ***See*** Configuration wizard - Serial numbers Configuration wizard - goods receipt (*oitm.u_batchroh='N'*) Manual entry of serial number Serial numbers are defined manually. Automatic serial number reservation is not possible. (*oitm.u_batchroh='N'*) Default: manually (*oitm.u_batchroh='M' or NULL*) ***See*** Goods Receipt – Quantity Configuration wizard – Serial number reservation Batch generation
Shelf Life in Days	Defines the amount of days that are added to the items production date for calculating its expiration date. If a receipt is performed via Production or a quality control release is performed, the shelf life date is reset from release. Counted from production date - if empty, it is counted from today. If a manufacturing date is entered in the Goods receipt window, the date of expiry is calculated automatically. (calendar days of shelf life are added to manufacturing date).

© 2026 Boyum IT Solutions A/S

back to Item Master Data

7.1.9 Production Data



The Beas relevant fields in this SAP tab are:

Field	Description
Phantom item	Is it a phantom item? Phantom items only define the Bill of materials and routing, have no inventory maintenance and can be neither purchased nor sold. An assembly can have any number of phantom items, finally used to combine the Bill of materials and routing according to the assembly principle. **Note**: A phantom item is an item type in Bill of materials which only has a technical or structural function. Phantom items are not actual components or intermediate assemblies, so they are defined as non-warehouse items. For example, a company produces different laptops as finished good, and all different laptop models use the same set of cables: monitor connector, power connector, HDMI cable. It is easier to group the set of cables as a phantom

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>item in Beas, so you do not have to assign the cables to each Bill of materials separately. To do so, we have to create the Bill of materials with all required cables, and link the phantom item as a component of all laptop models. After creating a Work Order, Beas only includes the phantom item structure (Bill of Materials and Routing) and not the item as an assembly.</td></tr>
<tr><td>Issue method</td><td>Defines the issue method.

Defines the way the item is issued in production: backflushing (automatically) or manually.

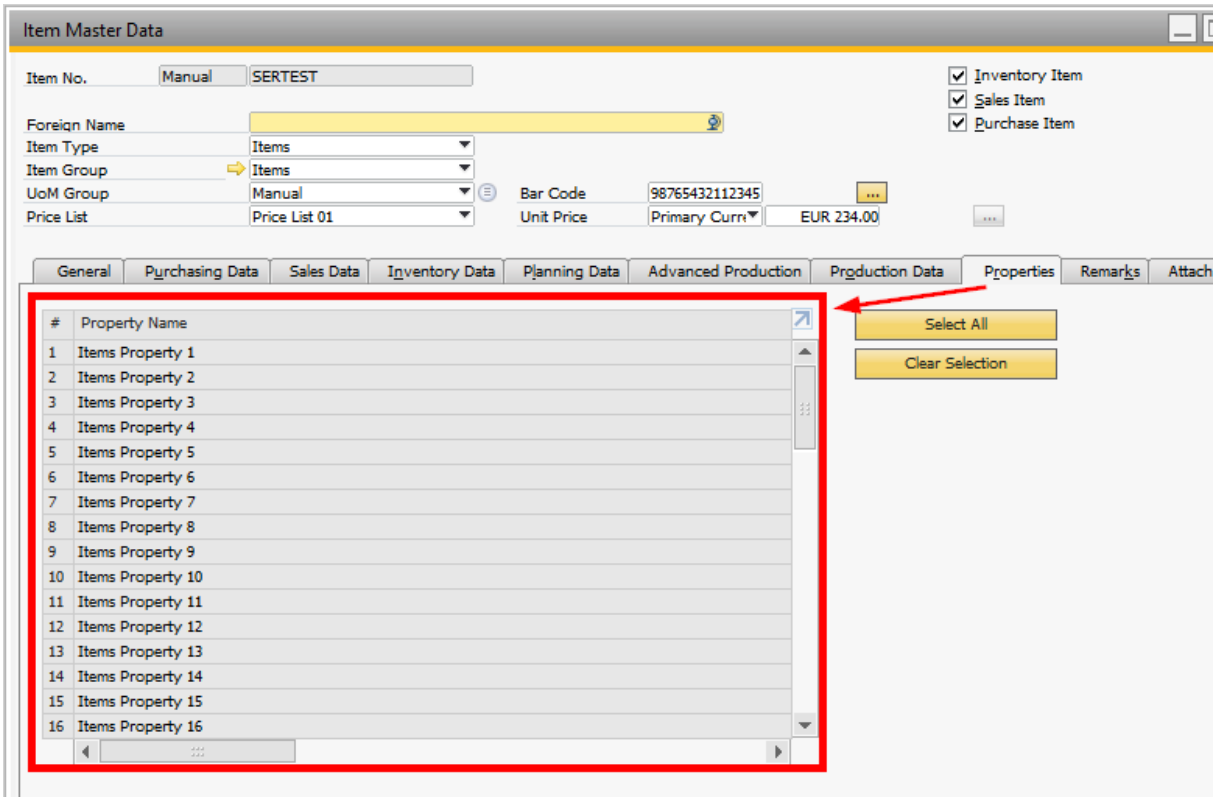
<table><tr><th>Setting</th><th>Description</th></tr><tr><td>Manually</td><td>The components are manually output to the production order without considering the output of the product.</td></tr><tr><td>Backflushing</td><td>The components are automatically issued to the production order once completion of the higher-level item is reported. (e.g. reporting the last operation, Goods receipt of the assembly or via Materials Management – Backflush).</td></tr></table>
Serial number- or batch number-managed items cannot be set to "Backflushing". However, if this type of item should generally be removed with backflushing, it can be activated in the Configuration Wizard.
see Backflushing - Also post batches
Webinar 8/2017, Part Configuration</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

back to Item Master Data

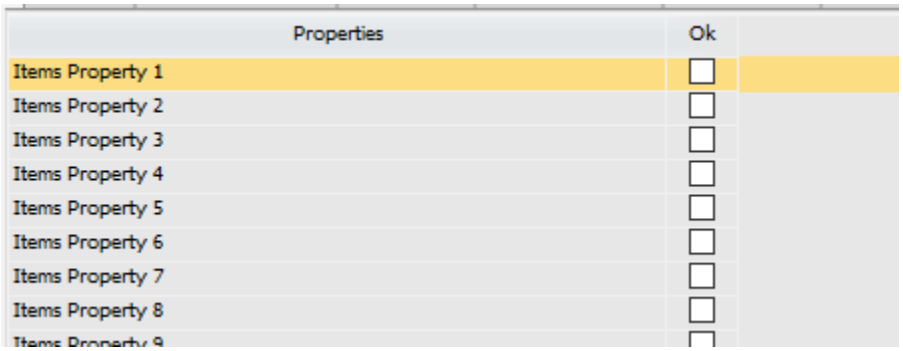
7.1.10 Properties

PATH: Inventory > Item Master Data > Properties



Use the Properties tab to assign individual features to the displayed item.

Up to 60 characteristics can be activated in SAP Business One for items.
The individual characteristics can be activated or disabled in this tab.



© 2026 Boyum IT Solutions A/S

Buttons:

Select All: Select all properties.

Clear selection: Delete selected properties.

back to Item Master Data

7.1.11 Remarks

PATH: Inventory > Item Master Data > Remarks

In this tab you can add your remarks to the item and insert a main image.

Note: Image 1 can only be changed in this tab.

To add further descriptions and more images, use the Extended description function.

back to Item Master Data

7.2 Item report

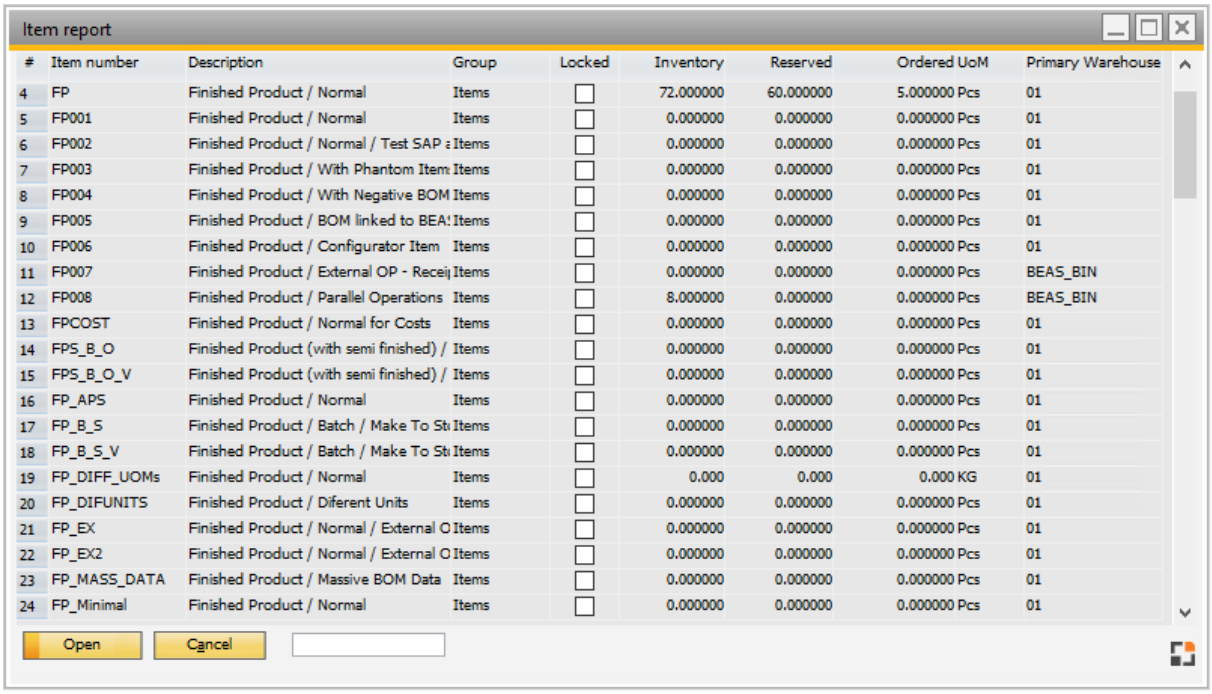
The item list is a selection list showing all available item entries.
The list is adjustable individually via window settings and templates.

Create new items
Item Batch Changes
Inventory History
Item cross Reference

Own reports can be created here using templates. Sum formation of inventories is possible via window settings. *(beas 9.2 PL: 06)*

PATH: Inventory > Item report.

© 2026 Boyum IT Solutions A/S



Window artikel_ browse.psr

Description of the most important fields

Field	Description
Item number	Item number
Item version	Stored Item version
Description	Item description
Group	Item group
Locked	Item locked (y/n)
Inventory	Current inventory
Reserved	Total quantity of reserved goods (Value from beas reservation system)
Ordered	Sum of currently ordered quantities
Unit of measure	Unit of measure of the item
Primary warehouse	Primary warehouse of the item

In the entry field you can search for: item number, designation, external designation, drawing number, match code.

Double-click on an entry to open Item Master Data.

Functions

© 2026 Boyum IT Solutions A/S

Field	Description
Open	Edit selected item.
Search	Extended search function
Add	Create new item
Remove	Delete item
Duplicate	Duplicates the item in the BoM, routing and all other linked information. Note: Button is only visible if this has been enabled in **Configuration wizard > Master data > Item > View > Item structure > Allow copy**.
Cross reference	Shows the Cross reference for this item.
Reports	Open Reports window.
Inventory history	Shows all planned inflows and outflows. ***See*** Inventory history.

see

Item master data

Inventory History

Item Cross Reference

Data record selection

Window

Templates

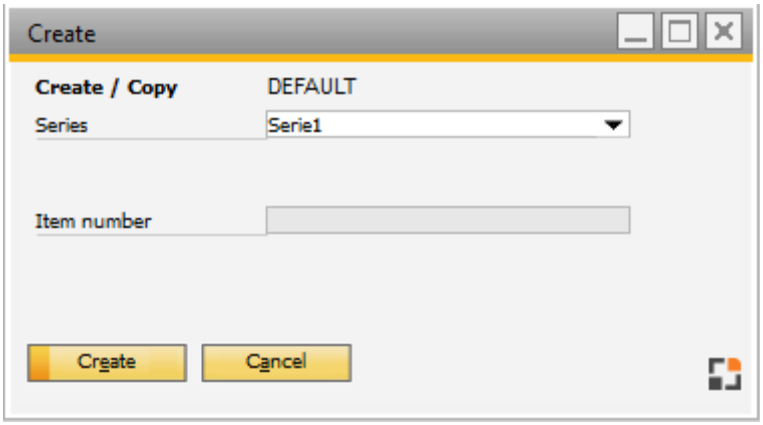
7.2.1 Create new items

In this window you can create or copy new items.

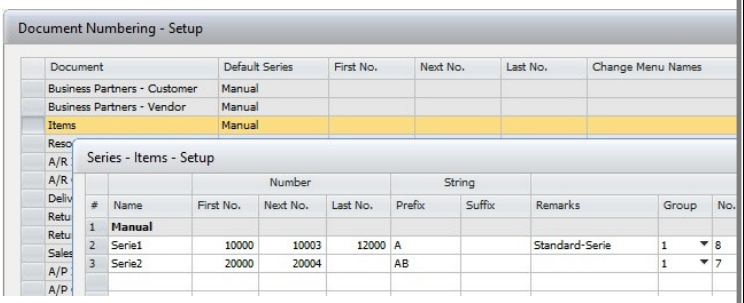
When creating an item, Beas always makes a copy of the item and copy all item information linked to it e.g. Bill of materials, routing, quality control information, warehouse information, but no stock.

The base item is defined in **Configuration wizard > Master data > Item > Default item**
In this way it is possible to work with templates.

© 2026 Boyum IT Solutions A/S



Window artikel_new

Field	Meaning
Series	Choose the Document Numbering of item generation In SAP Business One **> Administration > System Initialization > Document Numbering > Setup** you can define the Series for an item  The field "Series" is only visible, if additional Series are defined. If you choose a series, the field "item number" is locked, because Beas will create the next number automatically.
Item number	Item number of the new item Selecting series, no entry of item numbers is possible. Note: Not all characters are allowed. ***See*** key fields.

© 2026 Boyum IT Solutions A/S

Working with Item Generation

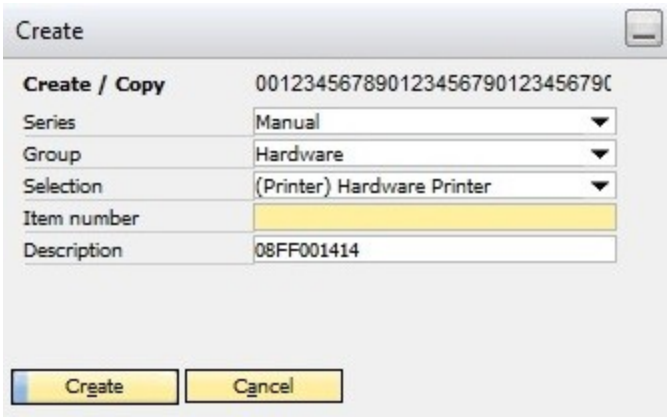
With the item generation function it is possible to define templates or item number / description generator.

See Generate Item

With this item generation the creation of items can be more automated.

Example: Generate item numbers and description related to a 2-Level item number generation.

Additionally, it is possible to use another template item related to the chosen Group/Selection.



Window artikel_new

Additional fields related to Item generation settings:

Field	Meaning
Group	The Item Generation Group
Selection	The Second Level for Item Group
Description	The new description

Technical information

Beas uses the DI-API. The copy function does not exist.
Beas exports the source item to XML and imports this XML via DI-API.

It is not compatible with Item Version Control. It makes only a copy of the Bill of materials and Routing which have the same number as the item number.

Beas copies the following tables:

© 2026 Boyum IT Solutions A/S

OITM, BEAS_STL, BEAS_APL, BEAS_APL_WKZ, BEAS_STL_HEADER, ABEAS_APL_HEADER, BEAS_ITEM_VERSION, BEAS_OITM_PARAMETER, BEAS_OITM_PRODUKTKONFIGURATOR, BEAS_QSVERWEIS

See Item generation

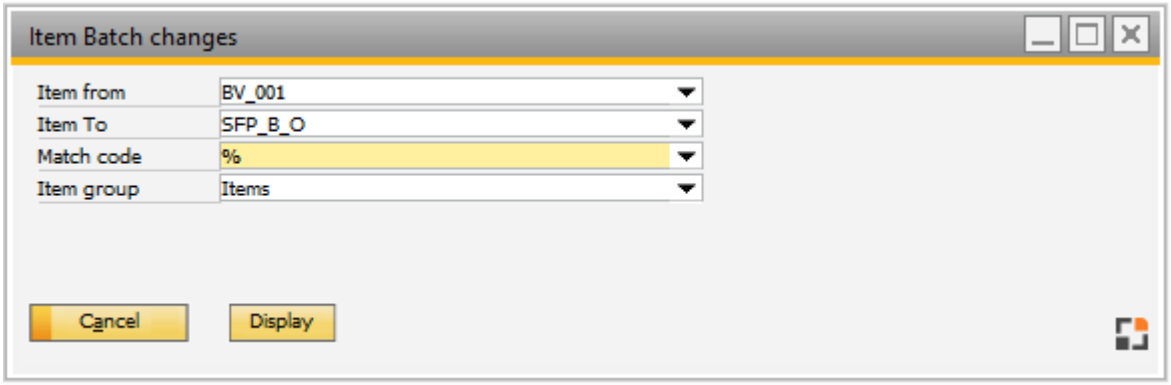
7.2.2 Item Batch Changes

The item batch change function enables changes to several properties in one go.

The sequence is as follows:

1. Setting of search criteria, dependent on item numbers
2. Selecting the item number to change
3. Defining the fields and properties to change, respectively

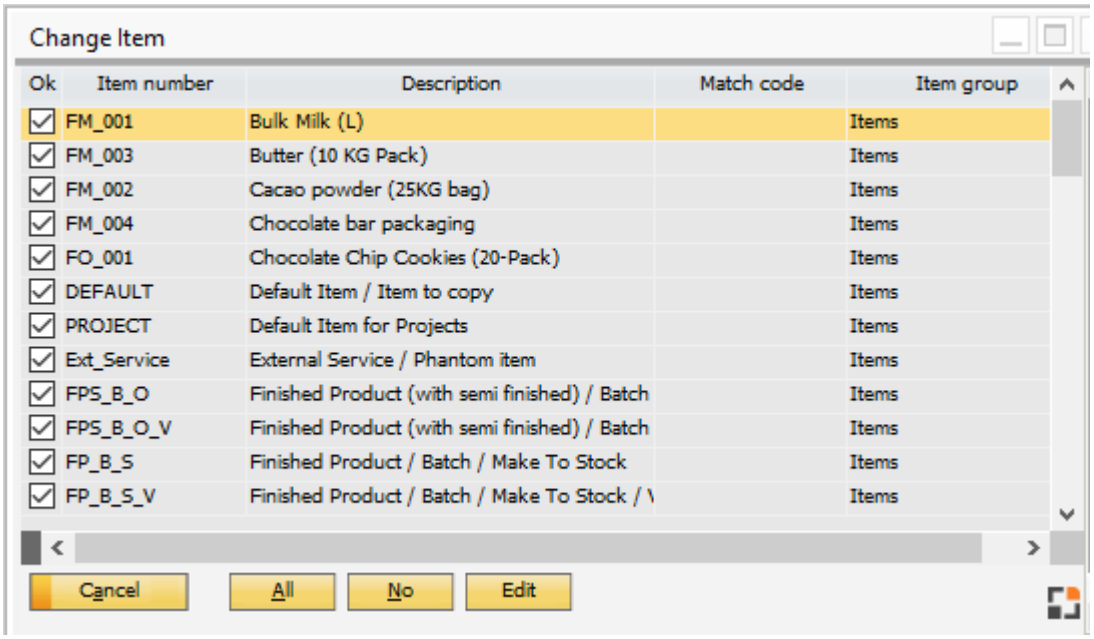
Call this function via **Master Data > Item Structure > right-click > second tab > select item batch change.**



Window artikel_batch_aend_suchen.psr

Select the items to be modified using the selection criteria, then click **Display** to list the results:

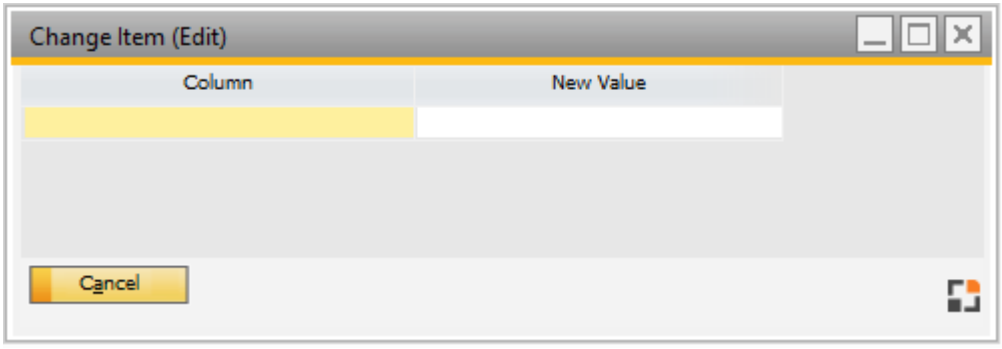
© 2026 Boyum IT Solutions A/S



Window artikel_batch_aend_auswahl.psr

Change

The items to be changed have to be selected in the result list. Then, select **Edit**.



Window artikel_batch_aend_ausfuehren.psr

In this window, select the field to be modified in the "Column" field, and select the new field value in "New Value".

Changes are possible for the following fields:

- Unit Inventory
- Unit BoM
- Item Group
- Profit Center
- Primary Inventory

© 2026 Boyum IT Solutions A/S

- Lot Size for Calculation
- Calculation Template

"Start Change" immediately performs the changes.

back to item master

7.2.3 Inventory History

The inventory history can be accessed from almost any location where items are shown.
For example:

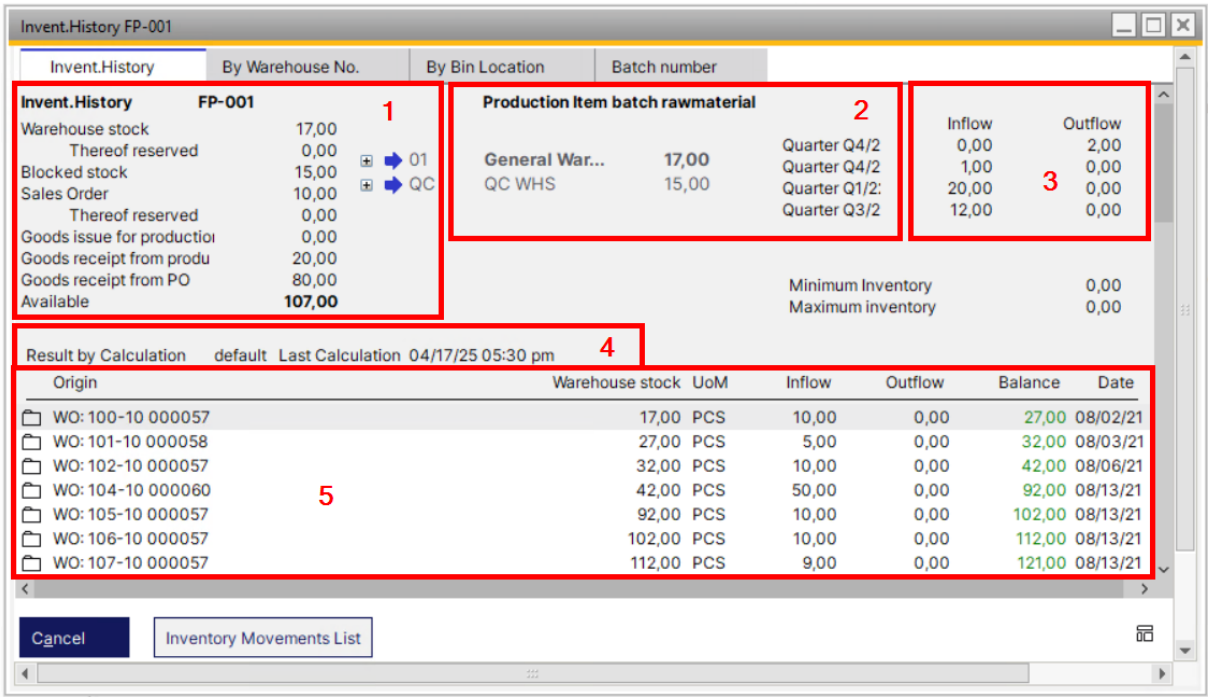
> PATH: Inventory > Item structure > Select an item > right-click > Invent.history

Tabs

Bin Location inventory
By Warehouse No.
By Bin Location
By Batch
By Serial
I-Version
Reservation list

Configuration of Inventory history

© 2026 Boyum IT Solutions A/S



Window_artikel_teilekonto.psr

1 Current stock – for batches and serial number in a structure view. Note: this area is not printed out if you print the view.	**2** Current stock – for batches and serial number in a structure view. Note: this area is not printed out if you print the view.	**3** Total of inflow and outflow without consideration of transactions.

© 2026 Boyum IT Solutions A/S

kartreservationsvithoutforeqastsorbreak		

© 2026 Boyum IT Solutions A/S

covrcfcustcrercrcers.Nctrelatedtcdcnput		

© 2026 Boyum IT Solutions A/S

action displayed in areas, the document statusi		

© 2026 Boyum IT Solutions A/S

s d i s p l a y e d .		

4 Notes on MRP scenario in area **5**

Note: MRP results with Item versions are not displayed in this area.

5 MRP scenario: (planning view) Result of last MRP run, which has been defined as standard MRP run.

Important: It shows the moment of the calculation. Following the rules, which have been defined in MRP wizard, customer orders are broken down, forecasts are taken into account and other parameters have effect. The result has nothing to do with the current stock and status displayed in the upper area (**1**).

View the upper area for current actual stock.

Field description current report of stock and reservations **(1)**

All Quantities in Inventory UoM

Field	Description
Warehouse stock	Inventory across ALL storage locations except blocked storage locations.
Thereof reserved	Reserved goods of type "warehouse reservation" (Beas reservation system) **WMS integration:** This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Blocked stock	Total inventory of blocked batches or in blocked warehouses. If MRP wizard in stored Standard MRP run it was set up, that blocked batches are available, these will not be displayed here. If the option is disabled, blocked batches are displayed as usual blocked stock.
Sales order	Planned issue for customer orders and reserve invoices. Determined by SAP Business One *OITM.committed*

© 2026 Boyum IT Solutions A/S

Field	Description
Thereof reserved	Reserved quantity for customer orders.
Goods issue for Production	Planned issue for production Planned quantity as per BoM, minus already posted quantity plus canceled quantity. Only work orders are considered which are visible, not completed and not blocked. Planned work orders are not considered. Note on post calculation: As reference serves the Total Quantity *BEAS_FTSTL.TOTALQUANTITY_WHSUNIT* less all already performed issues and receipts. For computation the SQL Procedure `beas_invhistory` is used. Blocked work orders *BEAS_FTHAUPT.SPERRUNG<>'J'* are considered if they are planned orders *BEAS_FTHAUPT.PLANNINGORDER=1* Planned quantity as per BOM, less already posted quantity plus canceled quantity. Only work orders are considered which are visible, not completed and not blocked. Planned work orders are not considered. Negative planned quantities are ignored. These are part of "goods receipt from production". If position is not closed and you post out more quantity than planned, it produces a negative quantity. ***Example***: Planned: 10, Post out 15 = -5
Goods receipt from production	Planned receipt from production Summary of planned receipt from production minus already posted and manually reported quantities plus canceled postings. This is the sum of Production Positions and Bill of material positions with negative quantity. Only work orders are considered which are visible, not completed and not blocked. Planned work orders are not considered.

© 2026 Boyum IT Solutions A/S

Field	Description
	If position is not closed and you post in more quantity than planned, it produces a negative quantity. ***Example***: Planned: 10, Post in 15 = -5
Goods receipt from PO	Planned receipt from purchase orders, determined by SAP Business One (Field "ordered". Use the MRP wizard to configure whether unreleased orders should be considered.
Available	Warehouse stock minus reservations plus planned receipt.

Functions

Function	Meaning
Print	Open printer selection to print the current view. Note: stock report (middle part) is not printed.
Inventory Movements List	Open Inventory Movements List.
Document open	Open the assigned document, which was marked in the lower list.

Window settings are available.

7.2.3.1 Bin Location Structure

The "Bin Location Inventory" tab is active inside the Inventory History window if bin location is active for an item.
The tab displays stock information per every warehouse and bin location in a structure view.

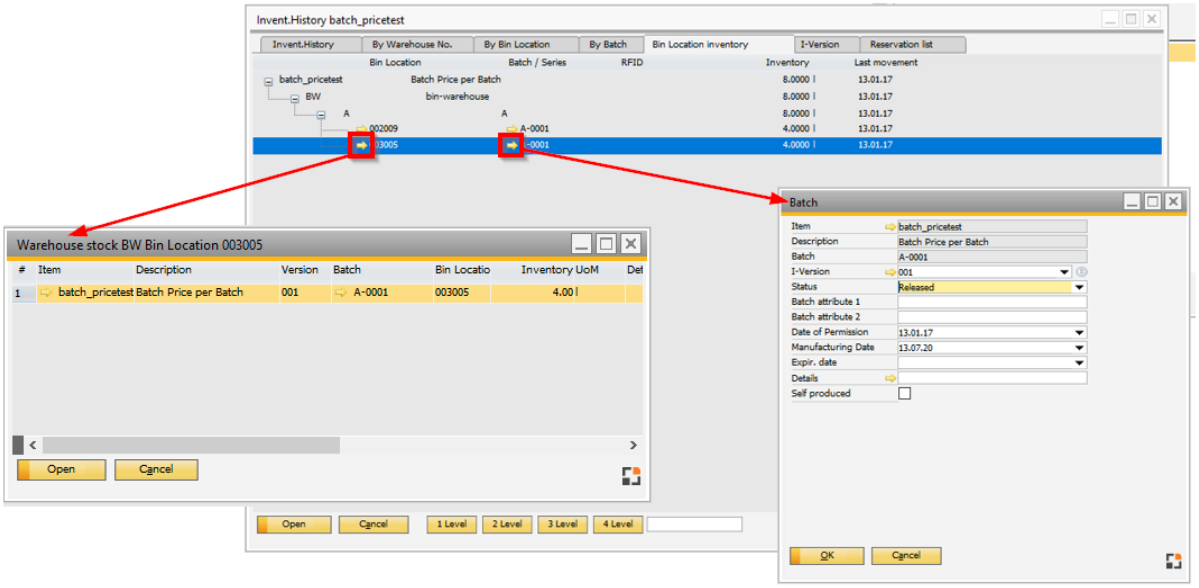
Functions:

- SAP Bin Management Support (since Beas 9.3 PL 02)
- Beas Bin Management support
- Link to Bin Location
- Link to Batch / Serial Number
- Search function by Batch / Serial number and Bin Location
- WMS Bin Management support (since *Beas 9.3 PL 02 HF2*)

With the yellow arrows you can access stock information on materials per bin location and batch/serial number details (***see*** image below).

© 2026 Boyum IT Solutions A/S

PATH: Inventory > Item structure > Select an item > right-click > Invent.history > Bin Location inventory tab

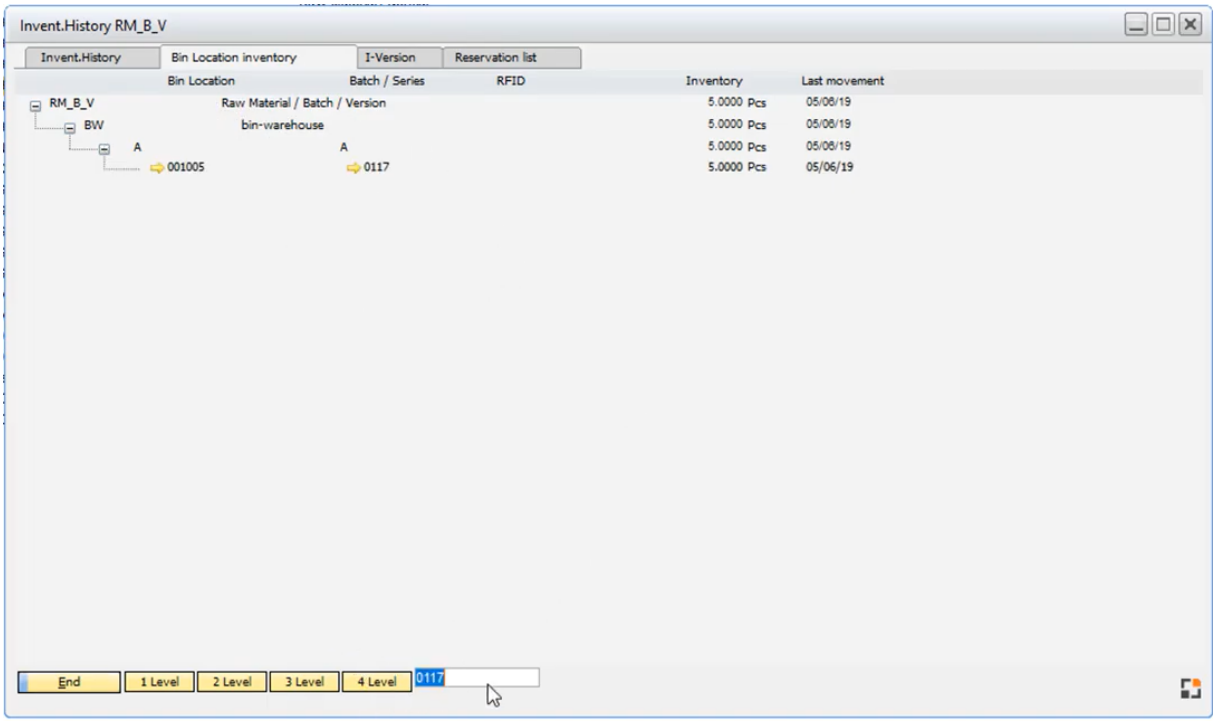


Controls:

Level 1–4: You can expand the structure view to several levels from warehouse information to bin locations and stock information (***see*** image above).

Search field: Search by batch/serial number, bin location and warehouse for stock information. (***see*** image below: Batch number "0117" is entered. Result: only the searched batch is displayed in a structure view)

© 2026 Boyum IT Solutions A/S



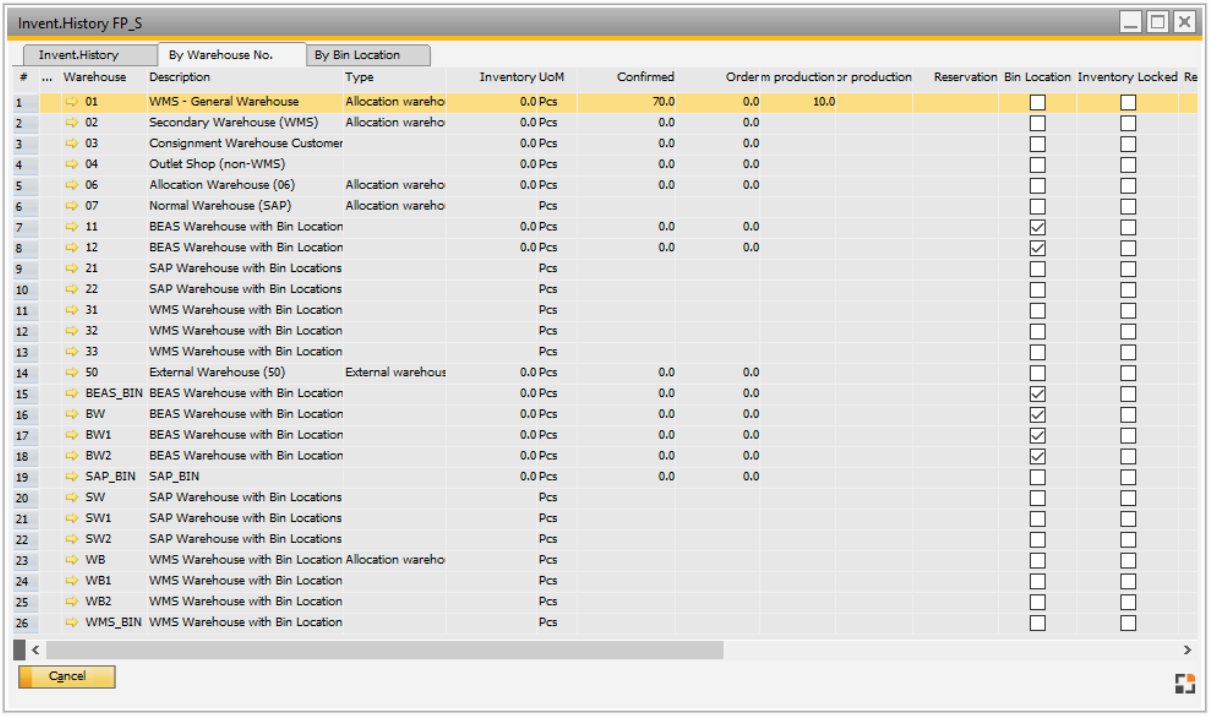
back to Inventory history

7.2.3.2 By Warehouse No.

In this tab you can see item inventory history listed according to warehouse numbers.

PATH: Inventory > Item structure > Select an item > right-click > Invent.history > By Warehouse No. tab

© 2026 Boyum IT Solutions A/S



#	...	Warehouse	Description	Type	Inventory	UoM	Confirmed	Order	m production	or production	Reservation	Bin Location	Inventory Locked	Re
1		01	WMS - General Warehouse	Allocation wareho	0.0	Pcs	70.0	0.0	10.0			☐	☐	
2		02	Secondary Warehouse (WMS)	Allocation wareho	0.0	Pcs	0.0	0.0				☐	☐	
3		03	Consignment Warehouse Customer		0.0	Pcs	0.0	0.0				☐	☐	
4		04	Outlet Shop (non-WMS)		0.0	Pcs	0.0	0.0				☐	☐	
5		06	Allocation Warehouse (06)	Allocation wareho	0.0	Pcs	0.0	0.0				☐	☐	
6		07	Normal Warehouse (SAP)	Allocation wareho		Pcs						☐	☐	
7		11	BEAS Warehouse with Bin Location		0.0	Pcs	0.0	0.0				☑	☐	
8		12	BEAS Warehouse with Bin Location		0.0	Pcs	0.0	0.0				☑	☐	
9		21	SAP Warehouse with Bin Locations			Pcs						☐	☐	
10		22	SAP Warehouse with Bin Locations			Pcs						☐	☐	
11		31	WMS Warehouse with Bin Location			Pcs						☐	☐	
12		32	WMS Warehouse with Bin Location			Pcs						☐	☐	
13		33	WMS Warehouse with Bin Location			Pcs						☐	☐	
14		50	External Warehouse (50)	External warehous	0.0	Pcs	0.0	0.0				☐	☐	
15		BEAS_BIN	BEAS Warehouse with Bin Location		0.0	Pcs	0.0	0.0				☑	☐	
16		BW	BEAS Warehouse with Bin Location		0.0	Pcs	0.0	0.0				☑	☐	
17		BW1	BEAS Warehouse with Bin Location		0.0	Pcs	0.0	0.0				☑	☐	
18		BW2	BEAS Warehouse with Bin Location		0.0	Pcs	0.0	0.0				☑	☐	
19		SAP_BIN	SAP_BIN		0.0	Pcs	0.0	0.0				☐	☐	
20		SW	SAP Warehouse with Bin Locations			Pcs						☐	☐	
21		SW1	SAP Warehouse with Bin Locations			Pcs						☐	☐	
22		SW2	SAP Warehouse with Bin Locations			Pcs						☐	☐	
23		WB	WMS Warehouse with Bin Location	Allocation wareho		Pcs						☐	☐	
24		WB1	WMS Warehouse with Bin Location			Pcs						☐	☐	
25		WB2	WMS Warehouse with Bin Location			Pcs						☐	☐	
26		WMS_BIN	WMS Warehouse with Bin Location			Pcs						☐	☐	

Window artikel_bestand_nach_lager.psr

Field descriptions

Field	Description
...	Bitmap image
Warehouse	Warehouse number
Description	Description
Type	Type of warehouse, for example Allocation warehouse, external warehouse, QC warehouse etc.
Inventory	Inventory in the individual warehouses
UoM	Unit of measure
Confirmed	Confirmed quantity
Order	Ordered quantity
Goods receipt from production	Goods receipt from production information
Goods issue from production	Goods issue from production information
Reservation	Reservation information
Bin Location	Check box: if active, bin location is active in this warehouse.

© 2026 Boyum IT Solutions A/S

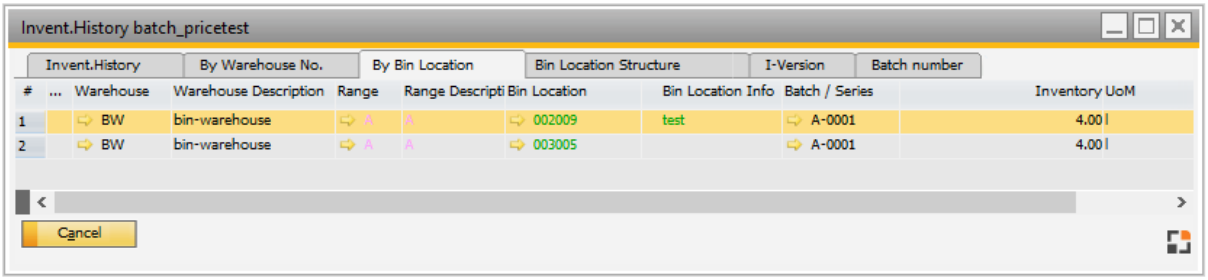
Field	Description
Inventory locked	Check box: if active, inventory for this item is locked in this warehouse.
Reservation	Radio box: if active, item is reserved in this warehouse.
Valuation	Valuation quantity
Maximum	Maximum inventory level
Minimum	Minimum inventory level
Requirement	Required inventory level
Warehouse inactive	Check box: if active, warehouse is inactive
Street	Warehouse address field for street name.
Additional address	Warehouse address - additional information
Zip Code	Warehouse address - postal code
City	Warehouse located in this city.
Country	Warehouse located in this country.

back to Inventory history

7.2.3.3 By Bin Location

In this tab you can see item inventory history listed according to Bin locations. The tab is only visible if stock is available on bin-managed warehouses.

PATH: Inventory > Item structure > Select an item > right-click > Invent.history > By Bin Location tab



Window artikel_bestand_nach_lagerplatz.psr

Field	Description
...	Bitmap image

© 2026 Boyum IT Solutions A/S

Field	Description
Warehouse	Warehouse number
Warehouse Description	Description - type of warehouse
Range	Warehouse area - can be opened for editing with the yellow arrow.
Range description	Warehouse area description
Bin Location	Bin Location - can be opened for editing with the yellow arrow.
Bin Location info	Bin Location information
Batch/Serials	Batch/Serial number
I-Version	Item version number
Inventory	Number of items per bin locations
UoM	Unit of measure

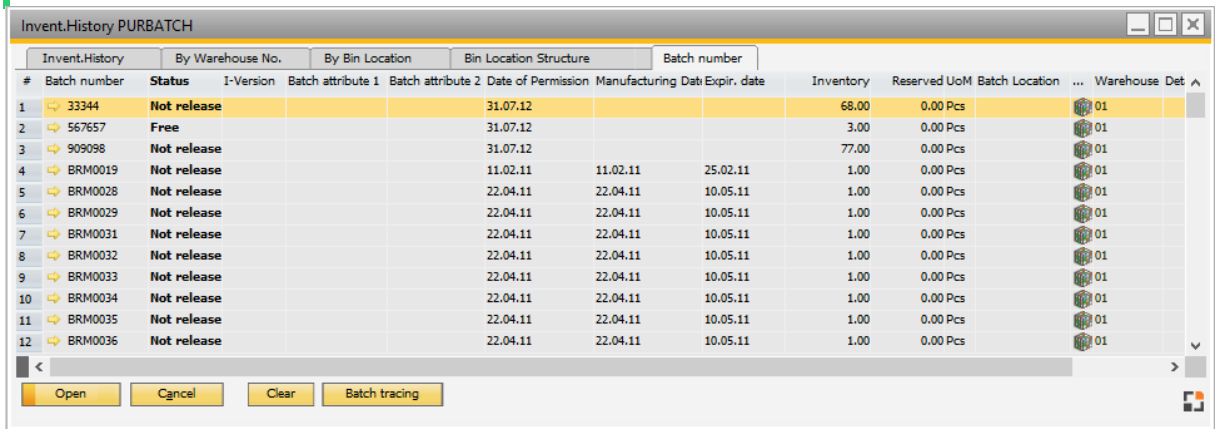
Window settings are available.

back to Inventory history

7.2.3.4 Batch numbers

In this tab you can see item inventory history listed according to batches. The tab is only visible for batch-managed items.

PATH: Inventory > Item structure > Select an item > right-click > Invent.history > By Batches tab



Window artikel_bestand_nach_charge.psr

Field descriptions

Column	Description

© 2026 Boyum IT Solutions A/S

Item number	Item number
I-Version	Item version
Batch	Batch number
Description	Item description
Warehouse	Current warehouse
Bin location	Bin location code
Status	Not released / Free / Locked / access denied
Inventory	Current stock of the bin location
Reserved	Reserved quantity of the bin location (if there are no bin locations, quantity of the warehouse)
Self produced	Check mark shows if the item batch was produced
UoM	Unit of measurement
Batch attribute 1	Free text
Batch attribute 2	Free text
Expiration date	Expiration date
Manufacturing date	Manufacturing date
Date of permission	Date of permission
Location	Batch specific information. Can be used for location description, if bin location management is not used.
Details	Free text
Customer name	Customer name from first order (filled in from SAP)

Functions

Function	Description
Batch tracing	Open the Batch tracing report for the selected batch.

Customization option:

Add Manual Issue function by activating this script:

```
//
if=<rowcount>=0=ende
setvar=cbatchnum=<obtn_distnumber>
setvar=cmenge=<obtq_quantity,#0.000000>
setvar=cme=<dw_1.item.oitm_invntryuom.value>
setvar=cfrage=chargber$Soll die Charge <cbatchnum> bereinigt werden und der
Restbestand von <cmenge> <cme> ausgebucht
```

© 2026 Boyum IT Solutions A/S

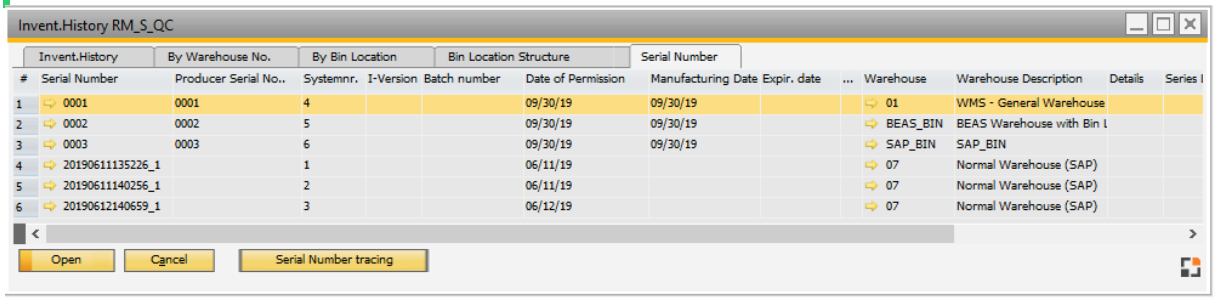
```
werden?$cmenge=<quantity,#,#0.0000>,cme=<select "U_me_lager" from "OITM" where
"ItemCode"='{itemcode}'>,cbatchnum=<batchnum>
question=<cfrage>==ende
// MANUELL BUCHEN AKTIVIEREN
setvar=buchen_einaus=ausbuchen
setvar=buchen_menge=<obtq_quantity,#0.0000>
setvar=buchen_batchnum=<obtn_distnumber>
setvar=buchen_itemcode=<obtn_itemcode>
setvar=buchen_typ=C
setvar=buchen_konto=<setup:fert_bereinigung>
setvar=buchen_ref2=<spr:Bereinigung>
setvar=buchen_whscode=<obtq_whscode>
object=ue_materialwirtschaft=warenausgang
if=<return>=-1=ende
setitem=quantity=0
retrieve=retrieve
//
```

back to Inventory history

7.2.3.5 Serial numbers

In this tab you can see item inventory history listed according to serials. The tab is only visible for serial-managed items.

PATH: Inventory > Item structure > Select an item > right-click > Invent.history > By Serials tab



Window artikel_bestand_nach_serie.psr

Column descriptions

Column	Description
Item number	Item number
I-Version	Item version
System number	System number
Serial number	Serial number
Description	Item description
Producer Serial No.	Serial number used at production.

© 2026 Boyum IT Solutions A/S

Warehouse	Current warehouse
Inventory	Current stock of the bin location
Reserved	Reserved quantity of the bin location (if there are no bin locations, quantity of the warehouse)
Self produced	Check mark shows if the item batch was produced
UoM	Unit of measurement
Batch attribute 1	Free text
Batch attribute 2	Free text
Expir. date	Expiration date
Manufacturing date	Manufacturing date
Release Date	Date of release
Serial Location	Batch/Serial-specific information. Can be used for location description, if bin location management is not used.
Details	Free text
UDF	user-defined fields

Window settings and templates are available.

back to Inventory history

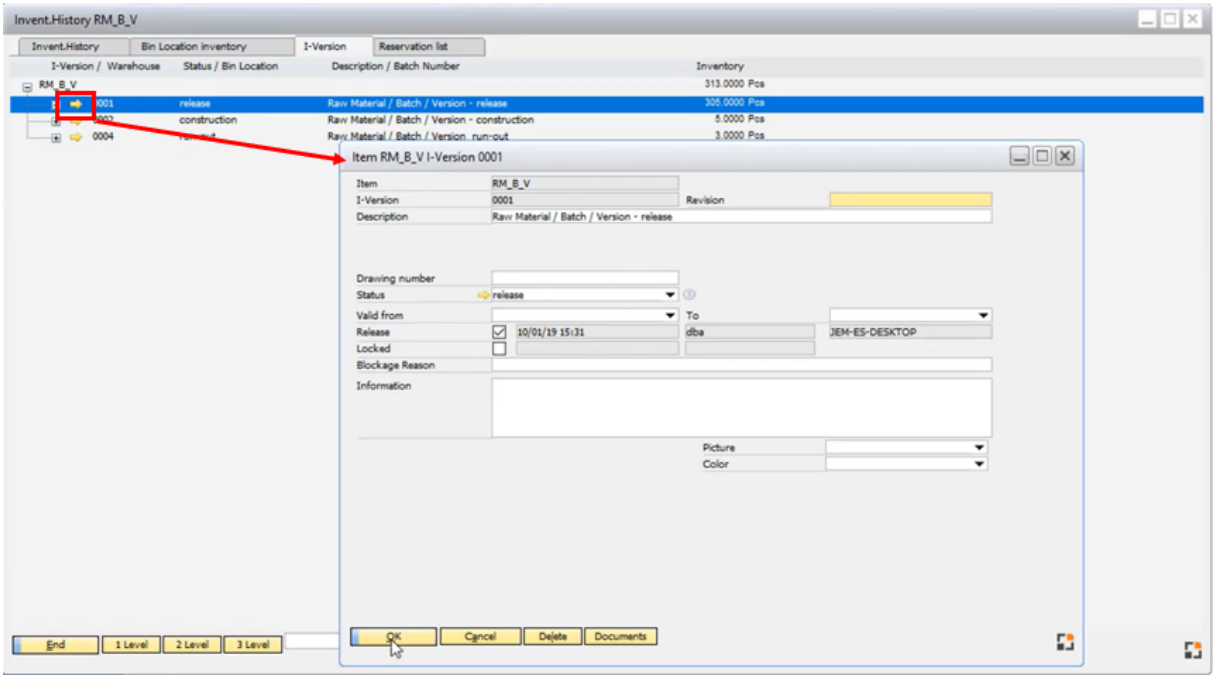
7.2.3.6 I-Version tab

This tab provides an overview of all available Item versions currently on stock. You can access all stock information for an Item version per warehouse and bin location.
Important: This tab is displayed ONLY for batch/serial-managed items and if Item version for the item is active!

Functions:
- Overview of all Item Versions currently on stock
- Stock information by Item Version
- Bin Location information
- Link to Batch / Serial Number
- Link to Bin Location
- Link to Item Version
- Search function by Batch/Serial, Warehouse and Item Version

© 2026 Boyum IT Solutions A/S

With the yellow arrow you can access detailed information on the selected version (***see*** image below).



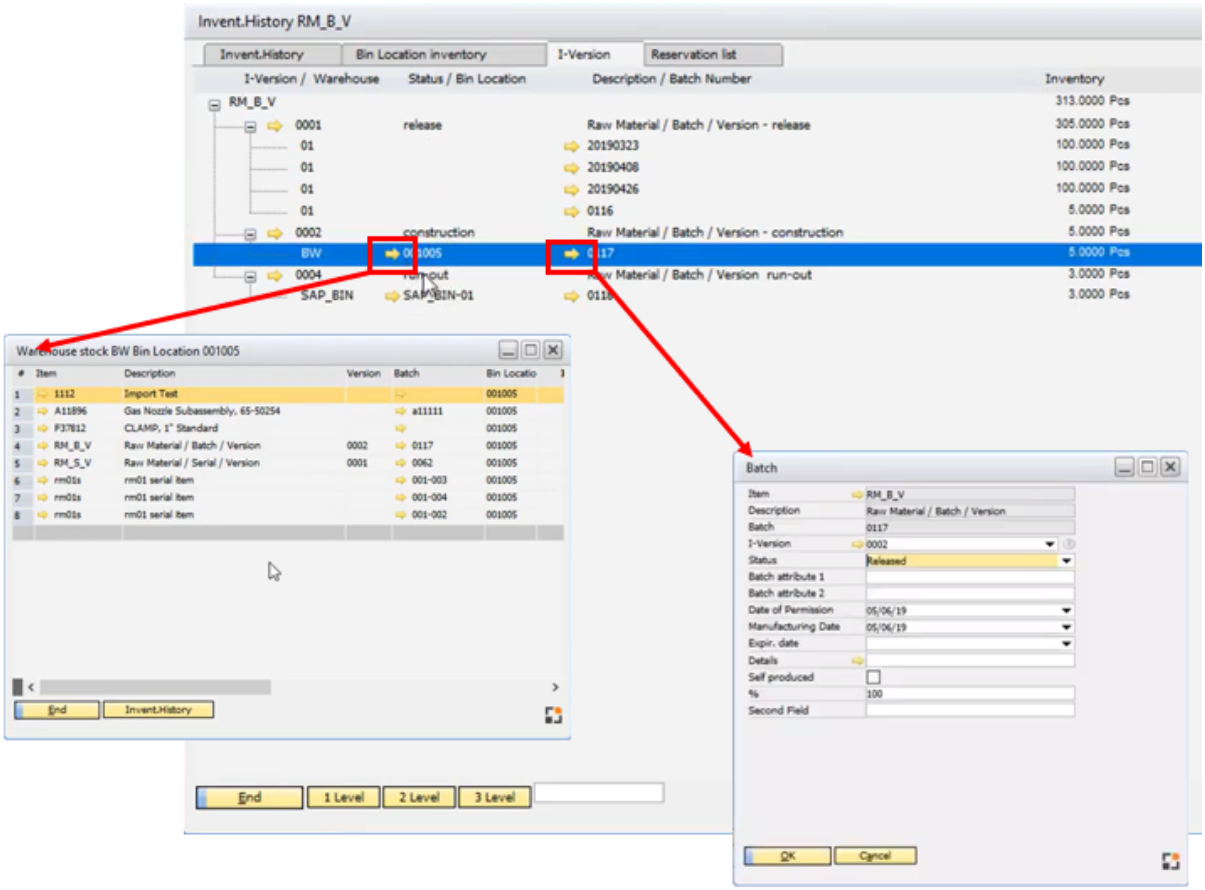
Controls:

Yellow arrow: It opens the windows for bin location and batch/serial information details (***see*** image below).

Level 1–4: ***see*** Bin Location Inventory tab.

Search field: Search by Item version, batch/serial number, warehouse or bin location. Also ***see*** Bin Location Inventory tab.

© 2026 Boyum IT Solutions A/S



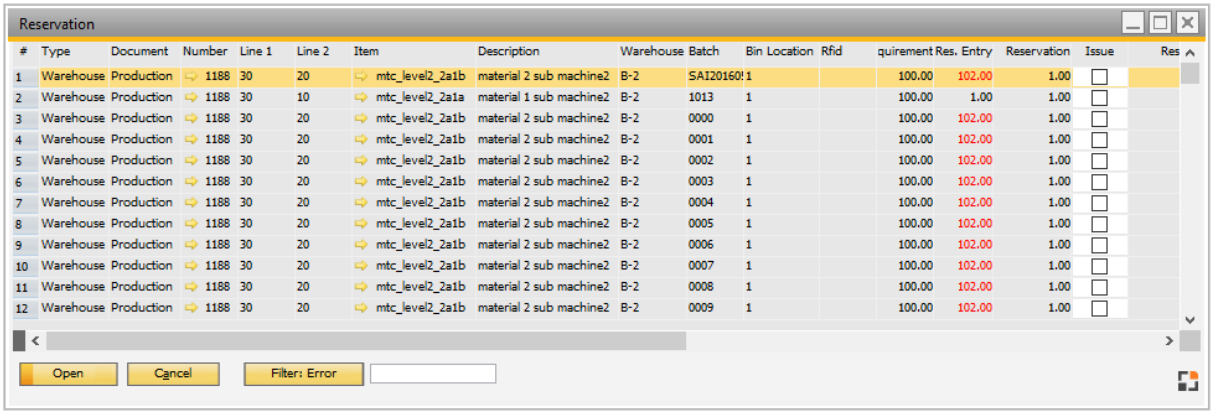
back to Inventory history

7.2.3.7 Reservation list

All active reservations are displayed and can be deleted here. Multiple selection and deletion are possible. Only warehouse reservations, no receipt reservations are displayed. Currently, only the Beas reservation system is supported. Each row represents a reservation on item/batch/bin location level for a pegging.

For transactions, use the issue and reservation window.

© 2026 Boyum IT Solutions A/S



Window reservation_ browse.psr

Column	Meaning
Type	Reservation type.
Document	Document type: customer orders, work order
Number	Document number.
Line 1	Work order position .
Line 2	Work order position assembly line.
Item	Item number.
Description	Item description.
Warehouse	Current warehouse.
Batch	Batch.
Bin location	Bin location.
Requirement	Remaining requirement of pegging.
Res. Entry	Quantity reserved in total for that pegging. If this entry is large than the requirement it is displayed in red and marked as wrong.
Reservation	Quantity of the current reservation for that entry (item/batch/bin) depending on pegging. If this entry is larger than the current stock, it is displayed in red and marked as wrong. For reservation type "receipt" this column is hidden.
Reservation Total	All reserved batch quantity. **WMS Integration:** The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".
Locking level	The WMS locking type that reserved this material. **WMS integration:**

© 2026 Boyum IT Solutions A/S

	Beas displays the WMS locking type with which the material was reserved. The supported WMS locking types: - Batch - LUID - Detail For more information, ***see*** our Beas-WMS integration documentation. ***See*** also: WMS documentation of the locking function (PATH: **Produmex WMS Fields and Settings > 6.1.1. Locking > 1. Inventory lock**)
OK	Allows direct issue If this check box was ticked, the marked line can be issued directly, by clicking the button "issue". The button is displayed, when at least one line was marked. You can mark only reservations, which are - Of type "warehouse" - Linked to a work order *(beas 9.0 PL: 07)*
Res. Entry	Reservation for that (item/batch/bin) independent from pegging. If this entry is large than the current stock it is displayed in red and marked as wrong. For reservation type "receipt" this column is hidden.
Inventory	Stock of this item/batch/bin. For reservation type "receipt" this column is hidden.
UoM	Unit of measurement.

Functions

Function	Meaning
(Reservation) Open	The button opens the "Reservation" window for the selected item.
Remove	Delete the reservation. **WMS integration:** The button is only available for WMS locks by "Detail". The deletion of other supported locking types (Batch and LUID) is not supported.

© 2026 Boyum IT Solutions A/S

Cross reference	Opens Item cross reference.
Invent. history	Opens Inventory history.
Filter: Error	Only entries marked as wrong are displayed. Filter applies only for displayed entries. Reservation type "receipt" is not displayed. Click the binoculars right below to display all entries (Filter: All).
Change log	Open the Change log.
Search (input field)	Enter a term to search for the following • Item Number ("BEAS_RESERVATION_LINE"."ItemCode") • Match Code ("OITM"."U_match") • Item description ("OITM"."ItemName") • Base Doc Entry ("BEAS_RESERVATION_LINE"."BASE_DOCENTRY") • Batch ("BEAS_RESERVATION_LINE"."BatchNum") • Bin Code ("BEAS_RESERVATION_LINE"."BINCODE") *(beas9.0-000-002-003)*
Issue	Issue marked reservations directly Button (located top left) is displayed only if at least one reservation row was marked using the check box. It is possible to issue the reserved entry directly. ***See*** Column "OK". *(beas 9.0 PL: 07)*
Reservation Conflicts	Opens a screen to resolve conflicts of reservation/locking between Beas and WMS systems. The Configuration wizard setting to Integrate WMS reservation system is linked for activation. *Window wms_reservationconflic.psr*

Window settings are available.

Reservation window

Sales order: Hard stock reservation

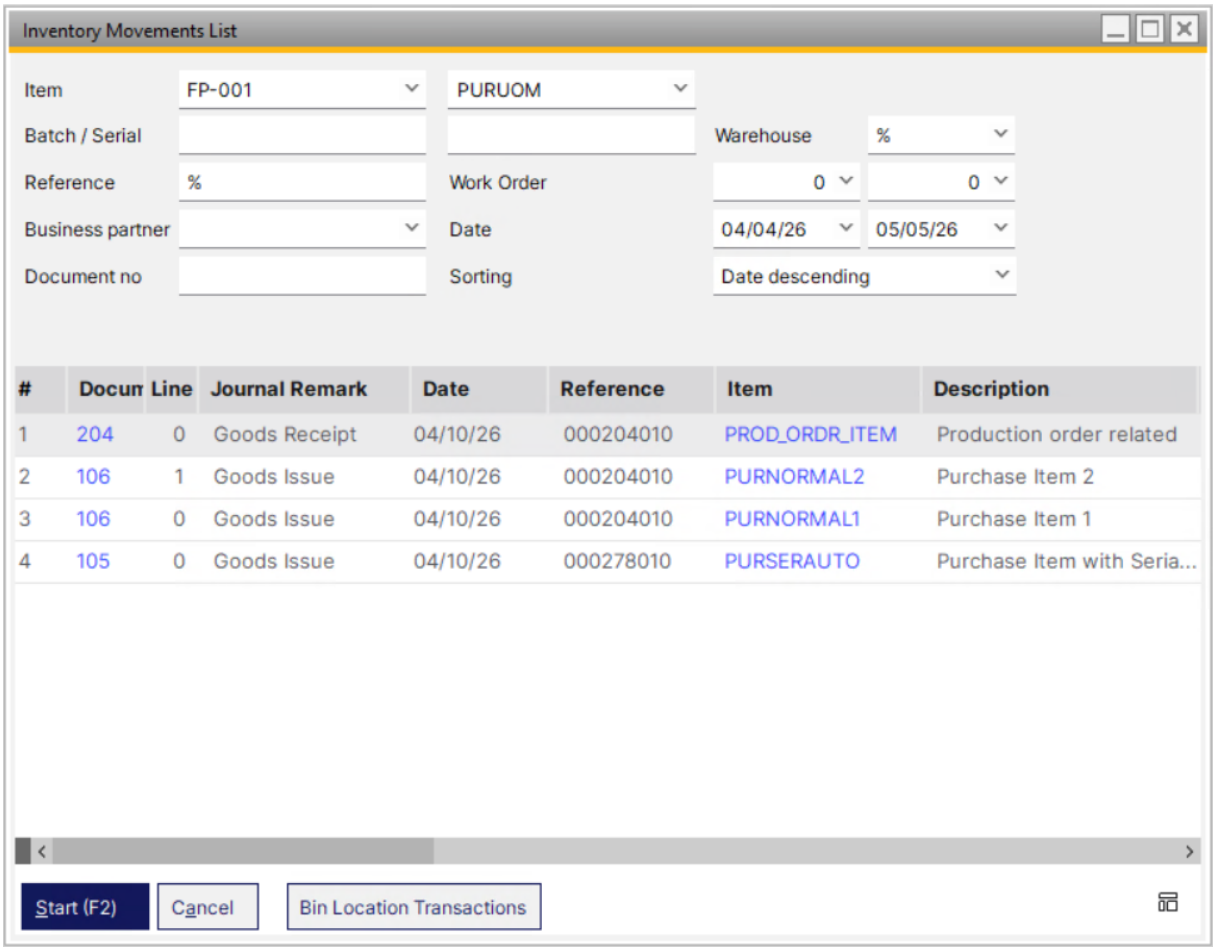
back to inventory

7.2.3.8 Inventory Movements List

All postings of this item are displayed. This list can be called from different places, for example from work order item or inventory history.

The Inventory Movements list is based on the "B1_OinmWithBinTransfer" View.

© 2026 Boyum IT Solutions A/S



Window mw_buchen_journal_master.psr

NOTE: This window can return the information in several lines when the FIFO method is in use, or the listed batch/serial items are managed by several prices. ***See*** Issue Line field described below.

Entry fields in the upper can be used as filters:

Field	Description
Item – item	Filter from item ... to item
Batch / Serial number	Filter items by batch or serial number
Warehouse	Show only for this warehouse
Reference	Show only this reference
Work orders from ... to	Filter from ... to work order
Business partner	Show only this business partner
Document number	Show only this document number

© 2026 Boyum IT Solutions A/S

Date	Filter from ... to date
Sorting	Adjustable sorting (drop down)

After selecting filters, click on "Start". In the area below, results are displayed.

Field	Description
Document	Document number
Journal remark	Reason of journal entry (goods receipt, stock evaluation)
Date	Entry date
Reference	Reference
Item	Item ID
Description	Item description
Batch / Serial number	Batch / Serial number of the item
Receipt	Total quantity inflow
Issue	Total quantity outflow
Warehouse	Item warehouse
Price	Information price as per posting document. Note: only a price for information. The actual posting price cannot be determined for technical reasons.
Inventory Currency	The main currency stored in the system. The information is read from SAP's "B1_OinmWithBinTransfer.InvPLCurrency" database field.
Inventory Price	The price of the invoice when it is different than the price defined in the origin document. The information is read from SAP's "B1_OinmWithBinTransfer.InvPLPrice" database field.
Receipt Line	Calculated purchase quantity for each batch/serial item inside the document line. When you create a document line in SAP, it may contain different costs for each single unit of the line. This column together with the "Calculation price" reflect the cost applied to this number of pieces.

© 2026 Boyum IT Solutions A/S

	Make visible/hide this column using the Window settings right-click option. ***See*** **Item Master data > Inventory data tab > Valuation method** setting.
Issue Line	Calculated issue quantity for each batch/serial item inside the document line. When you create a document line in SAP, it may contain different costs for each single unit of the line. This column together with the "Calculation price" reflect the cost applied to this number of pieces. Make visible/hide this column using the Window settings right-click option. ***See*** **Item Master data > Inventory data tab > Valuation method** setting.
Currency	Currency of information price
Remark	Free text
Customer name	Customer name
Customer	Customer ID
Project	Free text
User	Registered user who performed that posting. Note: for Terminal or WEB users, normally the "manager" or "B1 APi User", who was set up in the Configuration wizard. Registered user, who made that entry
Personnel, Name, Station	Personnel number and name of the employee. If Terminal or WebApps were used for posting, the personnel number is stored in posting document. The following documents are affected: - receipt - issue - transfer - goods receipt

© 2026 Boyum IT Solutions A/S

	In this case, the Personnel number and the name is displayed of the user logged on in WEB-Apps or Terminal. Additionally, the name of the work station is displayed for these transactions.

Bin location transactions show details of a posting, which bin location, which batch etc.

Support to older Beas versions:
If you want to report entries created with older Beas versions add the following script to enable variable "lb_displayoldentries":

```
global function form_opened
setvar=lb_displayoldentries=1
return true
end global
```

back to inventory history

7.2.3.8.1 Bin location transactions

All data of a item posting is displayed here.

Field	Description
Item	Item number
Batch	Batch number
Warehouse	Warehouse name
Bin location	Bin location
Quantity	Posted quantity

back to journal

7.2.4 Item cross Reference

The item cross-reference is used to check where the item is used.

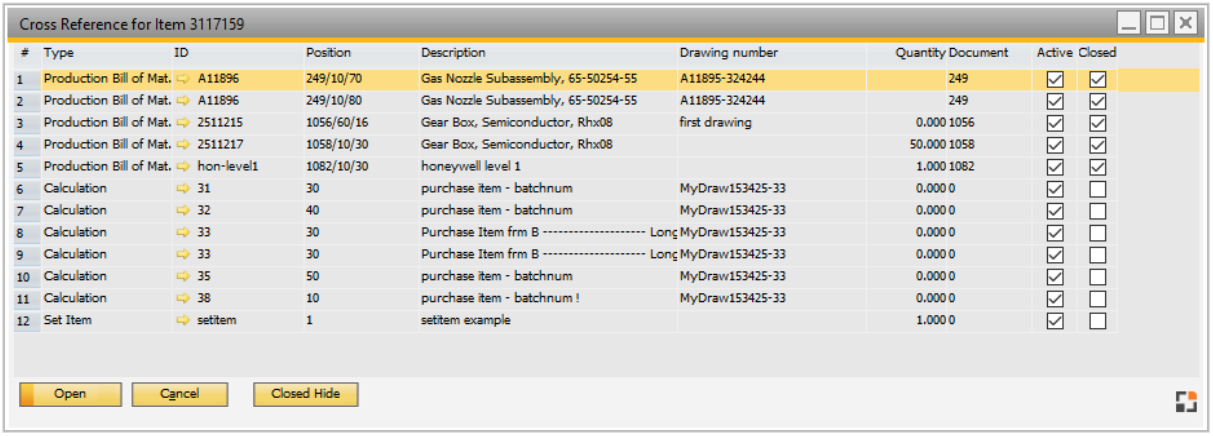
The following entries are searched:
- Item Bill of Materials
- Production – assembly

© 2026 Boyum IT Solutions A/S

- Production – BoM
- Calculation
- Set item BoM
- Resources – consumables
- Tool allocation
- Sales order
- Delivery Note
- Invoice
- alternative material

Other points of use are not searched.

The list is called up via **Master data > Item list or Master data > Item structure > Right-click > Cross-reference**, or **Item report > Reference** button.



Window artikel_ verwendungsnachweis.psr

Field descriptions

Field	Meaning
Type	In which area the item was found
ID	Document number of the linked document or the linked item
Position	Document position, Production BoM item or depending on type, linking information
Description	Depending on linkage, designation of the linked item or document
Drawing number	Drawing number of the linked document
Quantity	Order quantity or quantity requirement for linked items

© 2026 Boyum IT Solutions A/S

Document	internal document number
Closed	If the document is closed, the check box is ticked. Click the button **Closed** **Hide** to hide closed documents from this list.
Active	If the document or the affected item is active, the check box is ticked.

Window settings are available.

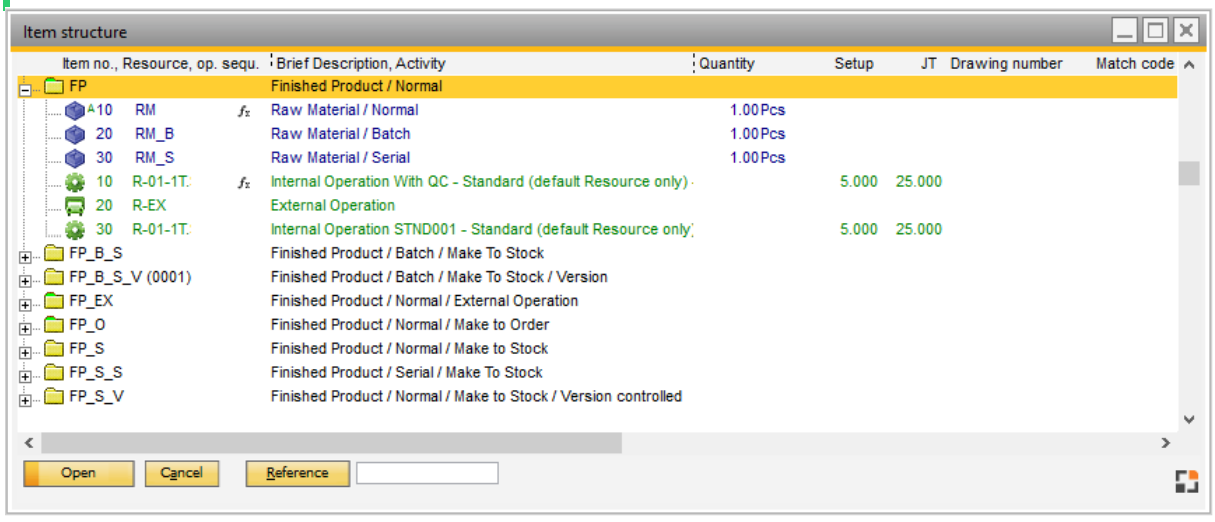
back to Inventory history

See:
Item report
Item structure

7.3 Item structure

This view is the dashboard for administration of items, the complete structure of items and item versions.
From this form you can create and change all items, Bill of materials and routing.
The list displays locked and not active items, as well. The system ignores **General settings > Inventory > Display inactive items**.
With Drag and Drop or copy and paste you can change the order of BoM / Routing positions or you can search inside the structures.

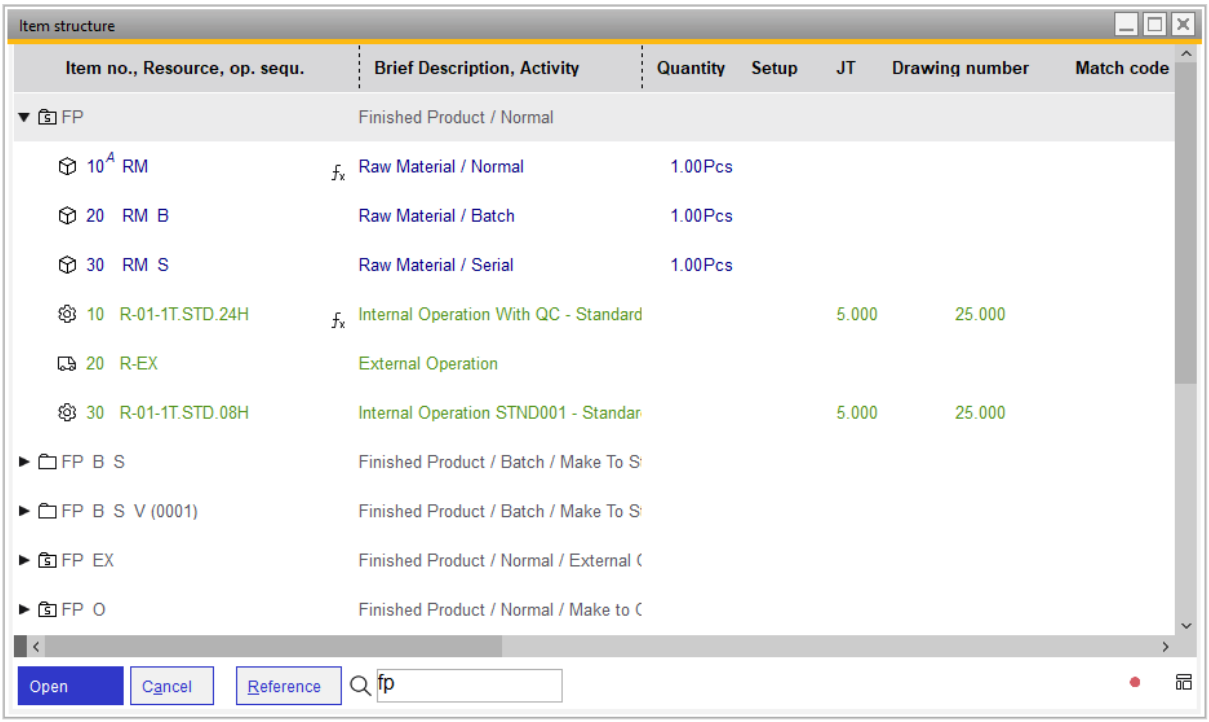
PATH: Inventory > Item structure.



Window artikel_struktur_browse

© 2026 Boyum IT Solutions A/S

Boyum Style:



Access

You need Access to "Edit item" (ARTEDIT)

And access to the item, Bill of materials or / and routing.

For more information on item related access ***see*** Rights Extended

Customization

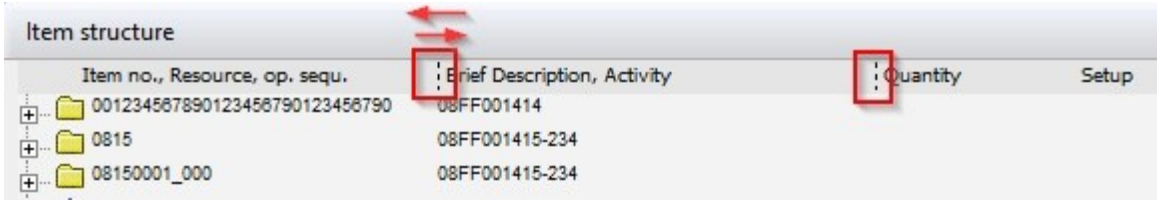
This is a structure view.

It is not possible to change the view itself.

Only Field Description is changeable. For more information ***see*** Configuration Wizard – Master Data – Item – Display – Item Structure

Column width is adjustable using the vertical line in the header at

- item code and description
- description and quantity



the new position is saved per current user

© 2026 Boyum IT Solutions A/S

Export

It is not possible to export this view. Use for export the Structure report.

In this view it is possible to expand the complete item

Item
Material, BoM item
Sub-assembly
Material of the sub-assembly (max. 20 nested levels)
Operation of the sub-assembly (max. 20 nested levels)
Operation Item
Tool, alternative or parallel resources

The item entries are shown through symbols. Double-click an entry to open Item Master Data
For more information on the meaning of the symbols, ***see*** Work order.
Additional bitmap images are shown in the item structure:

Icon	Boyum Style icon	Meaning
		Inventory-based in-house production (turquoise font in MRP)
		Order-related in-house production (blue font in MRP)
		Bill of Materials Item
		SAP Bill of materials item (Sales, Templates, Assembly, Production). Set visibility in Configuration wizard.
		Operation (various icons depending on type)
		BoM position deactivated
		Item master record (assembly, purchased item) locked.
f_x	f_x	Formula flag: Small "F": Formula, table, or script stored (in bill of materials, routing or item) This icon is on right side of the item number. ***See*** more details and icon variations in Formulas, Tables, Variables and BeasScript.

© 2026 Boyum IT Solutions A/S

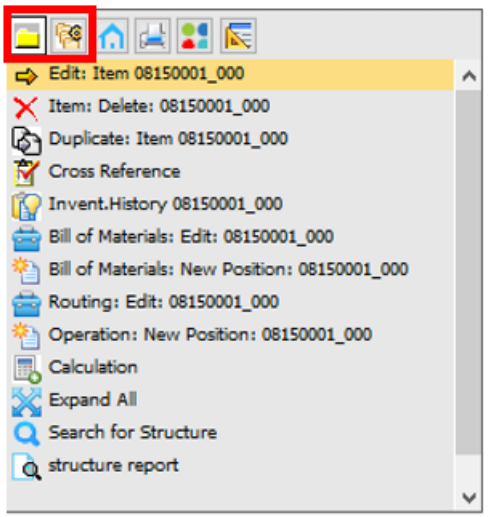
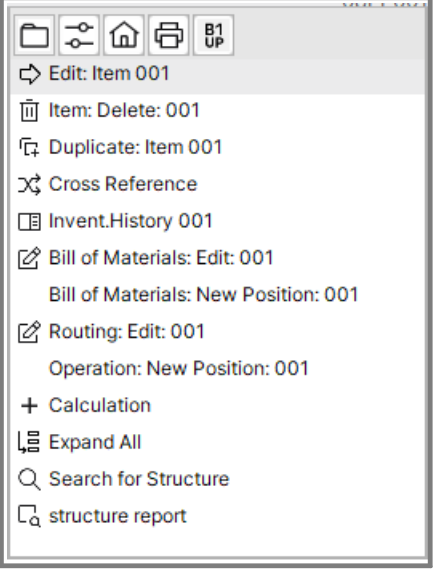
Icon	Boyum Style icon	Meaning
		Phantom item
		(green A) BoM position is backflushed. **Boyum Style**: An "A" with tool tip is displayed right top off the BoM position number.
		(Red number) BoM position belongs to specified position. **Boyum Style:** The number (10 in the icon image) shows the link to the specific position.
		Variant flag: a small red "V" flag appears on the bottom left side of the item icon. It marks that a variant is inside the item. **Boyum Style:** A "V" is displayed right top off the BoM position number. Only visible when short variant is defined.
		Parallel operation
		Tool
		Alternative resource
		SET item (SAP Business One BoM type set item)
		On Routing Position: The Resource inside the Routing position is not active. In Boyum Style (Beta), the inactive resource is grayed out.

- Right-click menu

Right-click menu

With the Right-click menu you can edit, delete, duplicate or insert an item, BoM or operation sequence in the Item structure. The available functions of the menu depend on the entry type (BoM or routing). The following two tables provide a detailed list of the entries found in the first two tabs of the right-click menu.

© 2026 Boyum IT Solutions A/S

Traditional styles:	Boyum Style icon
	

1. / tab:

Icon	Boyum Style icon	Function	Visible at	Description
		Item: Edit: xxx	BoM entries and item versions	Opens Item master for the selected item.
		Item: Delete: xxx Cut Selection Operation: Delete xxx	BoM and routing entries	Deletes selected item. Deletes selected entry. Deletes selected routing position.
		Duplicate item xxx	BoM entries	Selected entry is copied and created as new item with a new ID to be entered. New creation window opens.
		Cross reference	BoM entries	Opens Item cross reference.
		Invent. history	BoM entries	Opens Inventory history.
		Routing: Edit: xxx	Routing	Opens Routing edit header

© 2026 Boyum IT Solutions A/S

			entries	window
		Bill of Materials: Edit: xxx	BoM entries	Opens Bill of Materials edit header window
		Calculation	Produce items and item versions	Creates a Precalculation for the selected item/assembly.
		Expand all	BoM and routing entries	Expand the selected entry completely All BoM positions are expanded down to the 5th level. This limit can be changed in Configuration wizard. **Note:** This function is very intensive computationally, and it can take a lot of time to manage for huge amounts of data. Instead of expanding very large structures, where you can easily lose the overview, it is recommended to use the function "structure search".
		Search for structure	BoM and routing entries	Search is performed not only on item level, but also in sub-BoMs. If the string is found, the structure is expanded and the cursors land on the item. You can search for: item number,

© 2026 Boyum IT Solutions A/S

				drawing number, match code etc.
		Structure report	BoM and routing entries	Opens Structure report .
		Operation: new Position: xxx	Routing	Opens new Routing position for xxx screen to configure and add a new routing position to the selected item.
		Bill of Materials: New Position: xxx		Opens the New Bill of Material Row for xxx screen. Here you can add further Bill of materials to the selected item.
		Entry: Edit	Resources	Opens the Parallel Resource editing window.
		Resource: Edit	Resources	Opens the Resource Master data window.
		Operation: Edit: xxx position	Routing	Opens the Routing position for xxx window.
		Copy Selection	Routing, Bill of Material	Copies the selected item. Once the copy selection has been made, it has to be inserted in the desired position with the / "copy insert" right-click entry.
		Tool Edit: xxx	Tool entries	Opens the Tool Administration window for the selected tool.
		Entry Edit: xxx	Tool entries	Opens the Routing information to edit for the selected tool.

© 2026 Boyum IT Solutions A/S

		Utilities Edit: xxx	Utility entries	Opens the Utilities editing window for the selected utility.
		Entry Edit	Utility entries	Opens the Routing information to edit for the selected utility.
		Copy insert in: (xxx)	Item, Bill of Material, Routing (after copy)	After clicking / "Copy selection", this entry inserts the copied position to the desired position of an item.

2. / tab:

Icon	Boyum Style icon	Function	Visible when	Description
		Item Batch changes	BoM entries	Mass change function for items. ***see*** Item batch change.
		Bill of Materials: Batch Changes	BoM entries	Mass change function for BoMs. ***see*** Batch change.
		Bill of Materials: list of differences	BoM entries	Compare Differences between two BoMs.
		Operation: Batch changes	BoM entries	Mass change function for routings. ***see*** Routing batch change.
		Calculate resources	BoM and routing entries	Necessary material and resources are calculated and saved accumulated if the option is enabled. For assemblies, the lead time can be calculated based on item master settings in the General and Planning tabs.

© 2026 Boyum IT Solutions A/S

				See Calculation
		Bill of Materials: Duplicate to	BoM entries	Selected BoM entry is copied to another BoM item.

back to Item structure

Function	Description
Search	Open selection screen for search criteria.
Open	Open entry.
Add	Create new item Note: a default item is copied ***See*** Create new items.
Remove	Delete item.
Reference	Open Cross reference.
Search field	Search for the following terms. Item number, Item designation, Drawing number and External designation.

See

Structure windows

Window

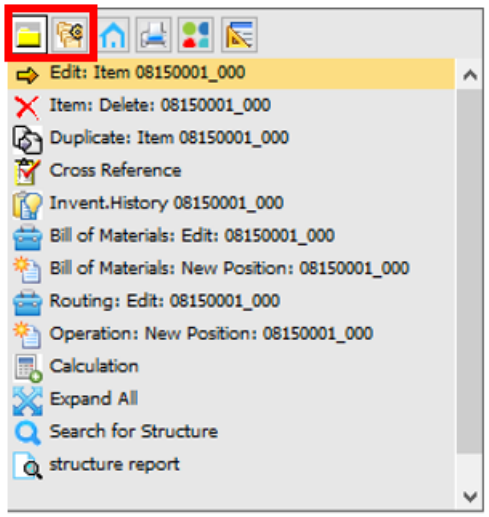
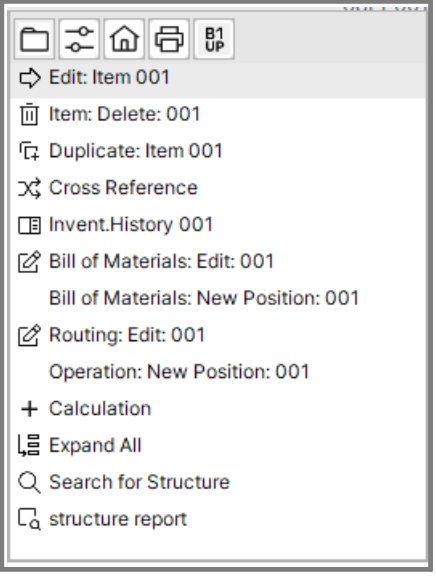
Item Master

7.3.1 Item structure right click menu

Right-click menu

With the Right-click menu you can edit, delete, duplicate or insert an item, BoM or operation sequence in the Item structure. The available functions of the menu depend on the entry type (BoM or routing). The following two tables provide a detailed list of the entries found in the first two tabs of the right-click menu.

© 2026 Boyum IT Solutions A/S

Traditional styles:	Boyum Style icon
	

1. / tab:

Icon	Boyum Style icon	Function	Visible at	Description
		Item: Edit: xxx	BoM entries and item versions	Opens Item master for the selected item.
		Item: Delete: xxx Cut Selection Operation: Delete xxx	BoM and routing entries	Deletes selected item. Deletes selected entry. Deletes selected routing position.
		Duplicate item xxx	BoM entries	Selected entry is copied and created as new item with a new ID to be entered. New creation window opens.
		Cross reference	BoM entries	Opens Item cross reference.
		Invent. history	BoM entries	Opens Inventory history.
		Routing: Edit: xxx	Routing entries	Opens Routing edit header window

© 2026 Boyum IT Solutions A/S

		Bill of Materials: Edit: xxx	BoM entries	Opens Bill of Materials edit header window
		Calculation	Produce items and item versions	Creates a Precalculation for the selected item/assembly.
		Expand all	BoM and routing entries	Expand the selected entry completely All BoM positions are expanded down to the 5th level. This limit can be changed in Configuration wizard. **Note:** This function is very intensive computationally, and it can take a lot of time to manage for huge amounts of data. Instead of expanding very large structures, where you can easily lose the overview, it is recommended to use the function "structure search".
		Search for structure	BoM and routing entries	Search is performed not only on item level, but also in sub-BoMs. If the string is found, the structure is expanded and the cursors land on the item. You can search for: item number, drawing number, match code etc.

© 2026 Boyum IT Solutions A/S

		Structure report	BoM and routing entries	Opens Structure report .
		Operation: new Position: xxx	Routing	Opens new Routing position for xxx screen to configure and add a new routing position to the selected item.
		Bill of Materials: New Position: xxx		Opens the New Bill of Material Row for xxx screen. Here you can add further Bill of materials to the selected item.
		Entry: Edit	Resources	Opens the Parallel Resource editing window.
		Resource: Edit	Resources	Opens the Resource Master data window.
		Operation: Edit: xxx position	Routing	Opens the Routing position for xxx window.
		Copy Selection	Routing, Bill of Material	Copies the selected item. Once the copy selection has been made, it has to be inserted in the desired position with the / "copy insert" right-click entry.
		Tool Edit: xxx	Tool entries	Opens the Tool Administration window for the selected tool.
		Entry Edit: xxx	Tool entries	Opens the Routing information to edit for the selected tool.
		Utilities Edit: xxx	Utility entries	Opens the Utilities editing window for the selected utility.
		Entry Edit	Utility entries	Opens the Routing information to edit for the

© 2026 Boyum IT Solutions A/S

				selected utility.
		Copy insert in: (xxx)	Item, Bill of Material, Routing (after copy)	After clicking / "Copy selection", this entry inserts the copied position to the desired position of an item.

2. / tab:

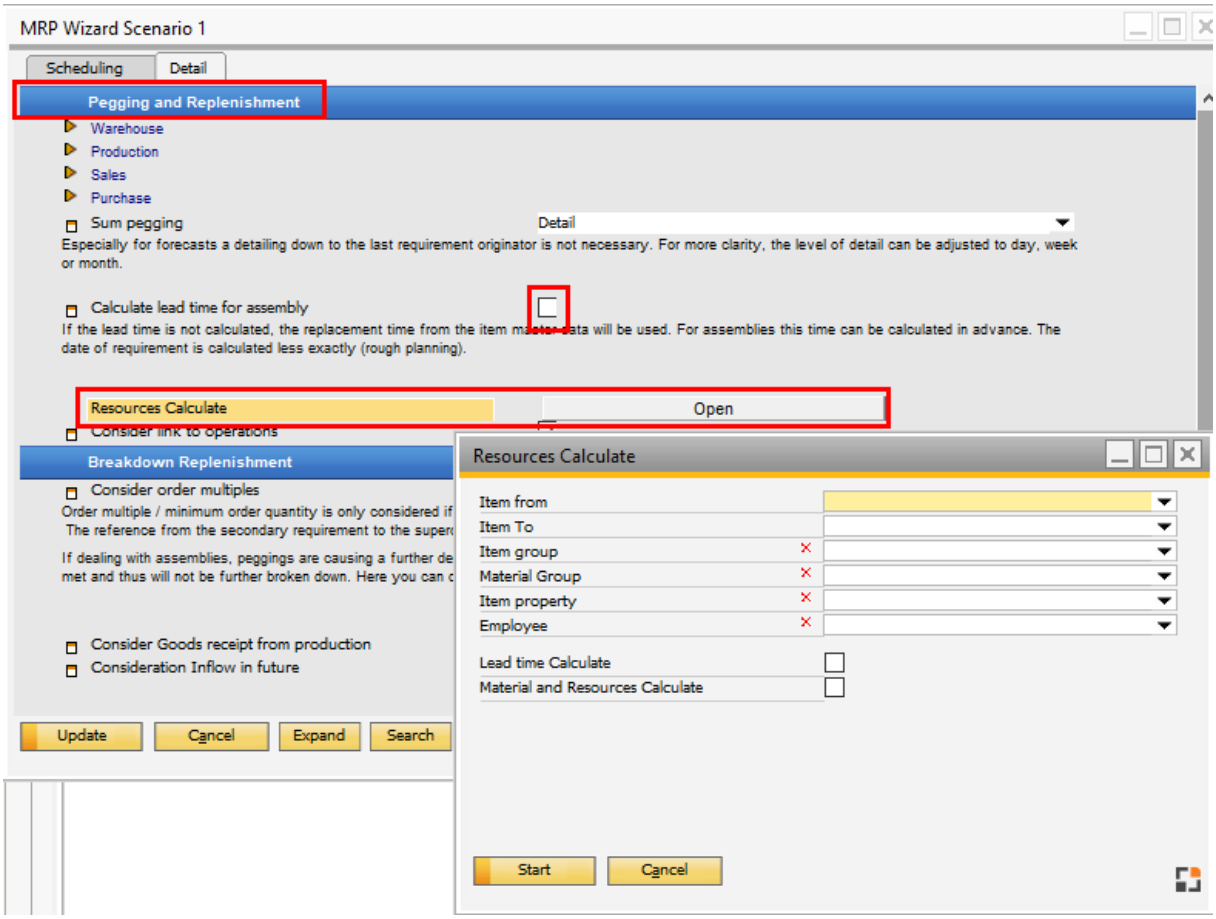
Icon	Boyum Style icon	Function	Visible when	Description
		Item Batch changes	BoM entries	Mass change function for items. ***see*** Item batch change.
		Bill of Materials: Batch Changes	BoM entries	Mass change function for BoMs. ***see*** Batch change.
		Bill of Materials: list of differences	BoM entries	Compare Differences between two BoMs.
		Operation: Batch changes	BoM entries	Mass change function for routings. ***see*** Routing batch change.
		Calculate resources	BoM and routing entries	Necessary material and resources are calculated and saved accumulated if the option is enabled. For assemblies, the lead time can be calculated based on item master settings in the General and Planning tabs. ***See*** Calculation
		Bill of Materials: Duplicate to	BoM entries	Selected BoM entry is copied to another BoM item.

back to Item structure

© 2026 Boyum IT Solutions A/S

7.3.1.1 Calculation

In this window, the material and resource requirement and the replenishment time can be calculated in advance for an assembly:



artikel_resourcenberechnung.psr

This window can

- Calculate lead time for item master data
- Calculate Bill of Materials and Resource, which you need for fast forecast calculation in MRP
- Create table for Material and resource with complete material and resource requirements

Which assemblies to calculate can be selected with filters on item, item group etc using a (AND)-conjunction

Calculation lot size: The calculation lot size is the "Lot size / production", defined in the item master data.

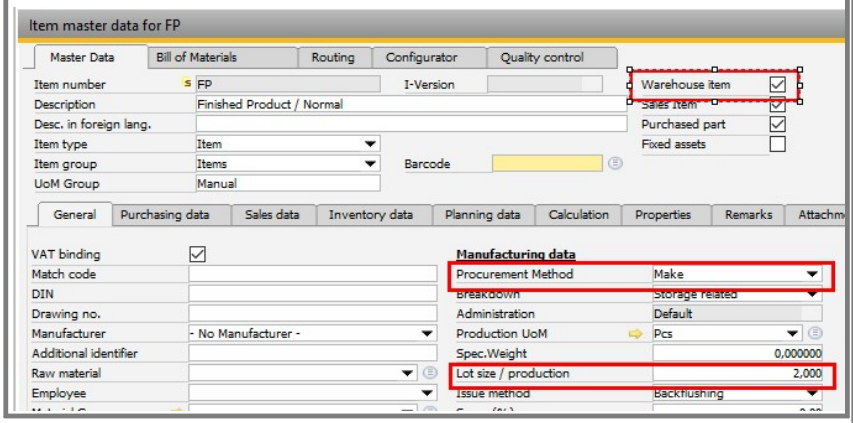
© 2026 Boyum IT Solutions A/S

Calculation date: Every calculation needs a delivery day. The system uses today + 100 calendar days as delivery day. It uses this day to check which Bill of Materials position or Routing position is active (Field Extended / Valid from / to). It uses the resource planning for the next 100 days. Calculation is standard backward calculation. If the resource calendar is not calculated, the system performs this automatically (*beas 2020.02*)

Configuration/Variant System: Configurations and Variants (formulas and scripts) are ignored in the same way as in MRP.

Short Variant: The system always uses the short variant A.

I-Version: If item version is used, the system always uses the I-Version which was defined as default I-Version in item master data.

Function	Description
Item from / to	⊟ Selection filter for Item area Note: Only items are calculated, which - not marked as deleted - Procurement Method is "Make" - Flag "Warehouse item" is active 
Item group	Additional filter item group
Item property	Additional filter item property
Employee	Additional filter Employee defined in item master data
Lead time calculate	⊟ if active, it calculates the lead time for an assembly Enabled: lead time is calculated based on the stored routing of the complete work order structure (order- and stock-related). Duration is the pure "production time" in work days. The result is entered in the field "lead time"

© 2026 Boyum IT Solutions A/S

	- Stock for stock related items is not checked. The system always calculates the complete structure - Use Resource calendar from today + 100 at End of Production (Configuration wizard, default 3pm) and calculate backward. - Result is duration day in calendar days. The system converts this to work days and saves this in the field "Lead Time" in the item master data. The result is always based on "Lot size / production" Converting to work days is always based on the main calendar. Note: if either this or the Material and Resources Calculate setting (***see*** below) is not active, no calculation occurs. ***See*** item master - planning data

Material and Resources Calculate	if active, it calculates material and resource requirement
	Material requirement and resource requirement is calculated based on the stored routing of the complete work order structure related to the manufacturing lot size. The required material and resource times are calculated for the complete production.
	
	The result is saved to the following tables:
	`BEAS_OITM_MATERIAL`
	`BEAS_OITM_RESOURCEN`
	
	Quantities and times are stored scaled down per quantity unit.
	
	Note: Material requirement of the purchase parts and storage related assemblies is saved. The requirement of order related assemblies is not saved, as these are neutral for balance calculation.
	
	IMPORTANT: if either this or the Lead time Calculate setting (***see*** above) is not active, no calculation occurs.

To perform the computation on a regular basis, you can create an activity.

© 2026 Boyum IT Solutions A/S

See

lead time and material requirement calculation

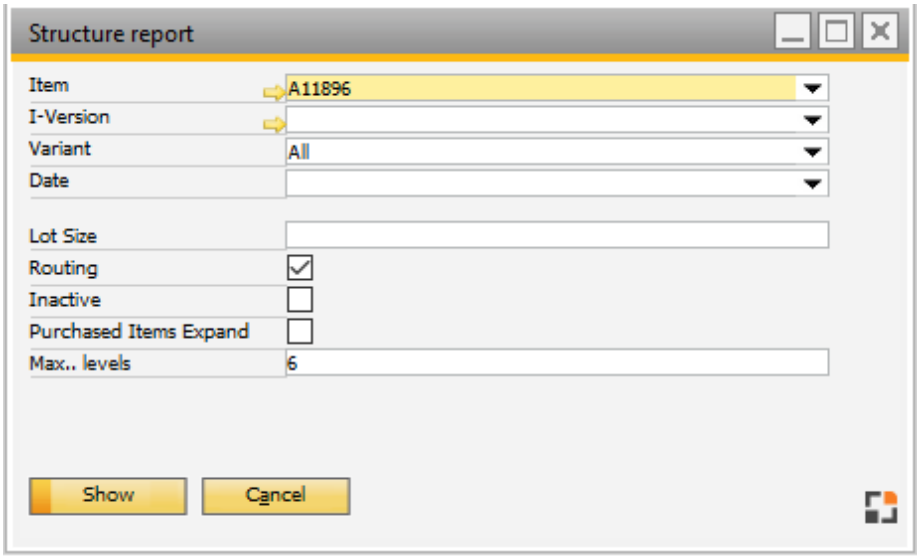
Item structure right-click menu

MRP wizard

MRP – Planning scenarios – Detail – Forecasts

7.3.1.2 Structure report

Via item list and item structure you can call up the structure report. *(beas 9.1 PL: 08)*
The report "item structure" accesses the same function.



artikel_strukturexport

Query parameters

Field	Description
Item	Select the item to display.
I-Version	Select the I-Version to display. If empty, the version stored in item will be used.
Variant	Select variant(s) to display (A-Z). ***See*** Variants
Date	In BoM and routing you can store the validity period. Here you can define the period for report creation.
Lot size	Define for which amount to create the report (usually the lot size)
Routing	How to display the routing: **no** – no display **normal** – as in item structure

© 2026 Boyum IT Solutions A/S

	no — no display **per BoM** — routing positions are displayed directly under the assigned BOM positions
Inactive	Enable check box to show inactive items in the report.

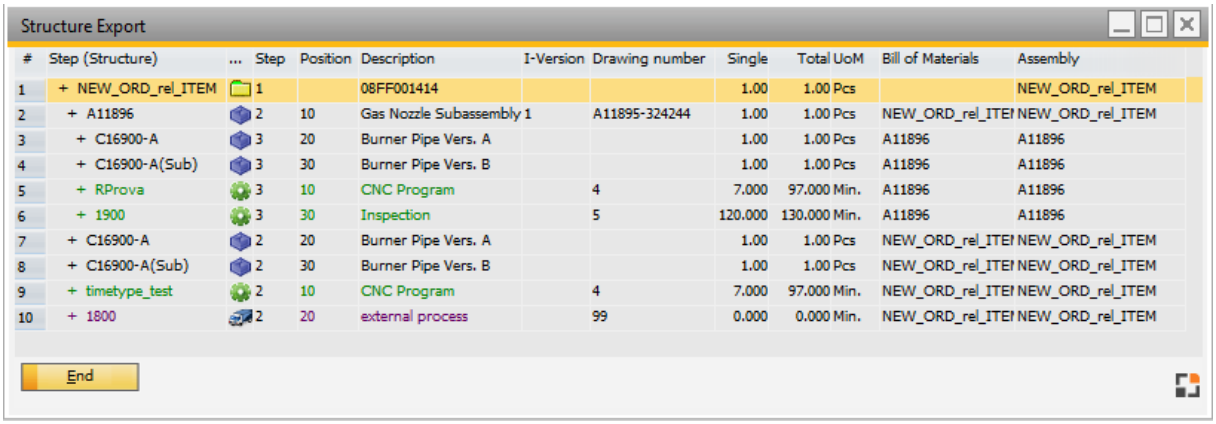
Purchase parts expand	If enabled, purchase parts with a Bill of materials will also be expanded.
	Default: off
	This setting does not affect first level.
	
	Example:
	Item "a" is a purchase item
	Item "a" has a Bill of Materials position "b" (also a purchase item)
	Item "b" has a Bill of Materials position "c" (also a purchase item)
	
	If this setting is disabled, you see
	`a +`
	`  | - b`
	
	if this setting is enabled, you see
	`a +`
	`  | + b`
	`  |  | - c`

Max. levels	Define the number of structural levels to be displayed by the report.

Report view (Structure Export)

Click the Button "Show" to view the report. Window settings and Templates are supported.

It is a table form. Structures to expand are indicated by a Plus-characters.



artikel_strukturexport_view

© 2026 Boyum IT Solutions A/S

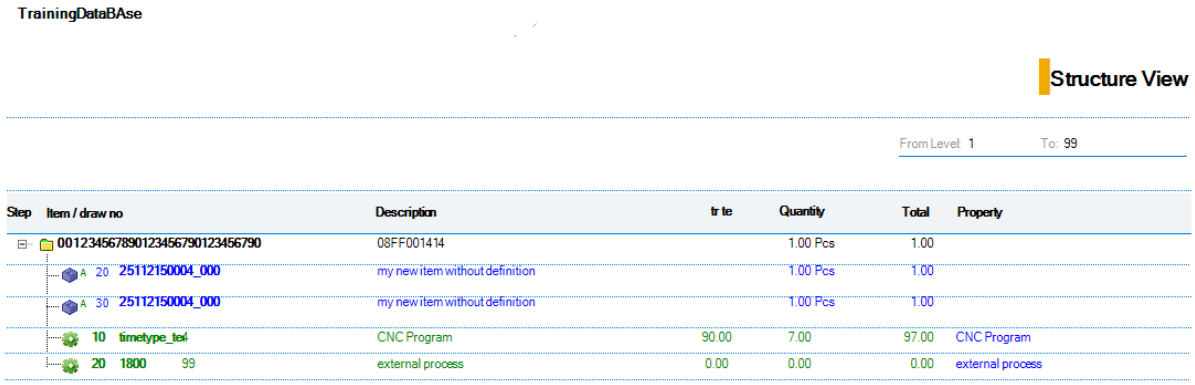
Important fields

Function	Description BOM position	Description Routing position
+	Click on + to toggle the structure depth	Display depending on selection: for BoM, material is displayed for routing, the resource
Level (Structure)	Next to the + icon (structure depth),the item number is displayed	
...	Icon stored in BoM and routing	
Level	Structure level	
Position	Alphanumeric position from BoM or Routing	
Pos Id	Internal position ID	
Item	Item number	resource ID
Designation	Drawing number from I-Version or from item	Activity
I-Version	I-Version ID according to BoM position	
Drawing number	Drawing number of item or I-Version	Operation number
Single	Requirement of a BoM position in item Production UoM per assembly unit	Job time in minutes per "Quantity per" Production UoM
Total	Total quantity per lot size Note: production lot sized in sub-assemblies are not taken into account. There may be different results than in Precalculation. Note: scrap factors are not considered.	Total required time per lot size
%	Percentage of BoM position of total quantity. Works only, if all positions have the same UoM.	
BoM	Used BoM	

© 2026 Boyum IT Solutions A/S

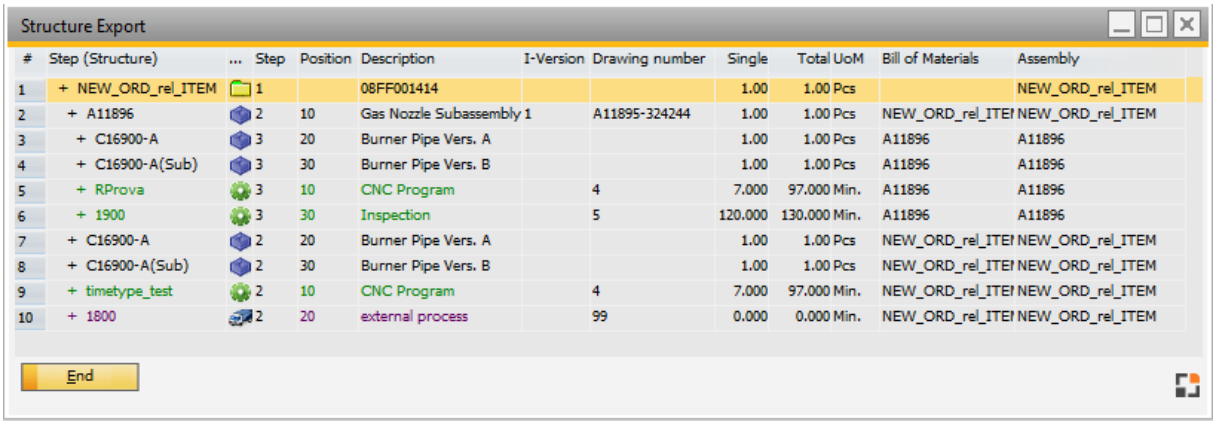
Assembly	Entry belongs to which assembly	
Type	50 = it is a BoM position	52 = routing position

Item Report as Crystal Report



Item Report as Beas Window

Item Structure > right-click > Item Structure Export



artikel_strukturexport_view

The structure export displays the total structure for one item, for one I-Version, for one period of validity or for a variant.

Further fields are available via Window settings.

- Notes:

Tools, alternative or parallel operations are not considered, the same applies for all connected rules. Scrap factors are not considered.

© 2026 Boyum IT Solutions A/S

Phantom assemblies are displayed like normal ones.
Authorizations for item and material groups are considered. If a user has no right to view a certain BoM, it is not displayed.

- Technical information

In table "BEAS_REPORTAUSWERTUNG" a report will be generated, the Variable "id" is returned. Use select * from "BEAS_REPORTAUSWERTUNG" where "ID"=<id> order by "NR" to put put the report.

ID
Art=50 = BoM position
Art=52 = Routing position

If this window is called up from a report (e.g. **Reports > Item structure**), clicking on "display" the window is closed and a Crystal report is opened.

7.4 Item master

The item master is a parallel function to SAP Business One-item master, but it provides the features for production management in separate tabs.
Beas uses this window. It can be accessed from SAP Business One item master window by right-click - Extended production.

The item master contains the following tabs:

Description of tab

Tab	Meaning
Master Data	All basic settings for an item entry.
Bill of Materials	- Item – BoM items. Tab is visible only if Item versions control was disabled (default). In this case the BoM number is linked firmly to the item.
Routing	- Definition of operations Tab is visible only if Item versions control was disabled (default). In this case the routing number is linked firmly to the item.
Configurator	Definition of the configuration for this item.

© 2026 Boyum IT Solutions A/S

Quality control	Define QC-inspection plans to be used for this item *(from beas9.0-000-003-000).*

Details are provided in the following chapters.

Continue to Master Data.

For editing item data the authorization "edit items" is required. Extended authorization control can be set up for routing and BoM.

See

User rights administration

Item versions control

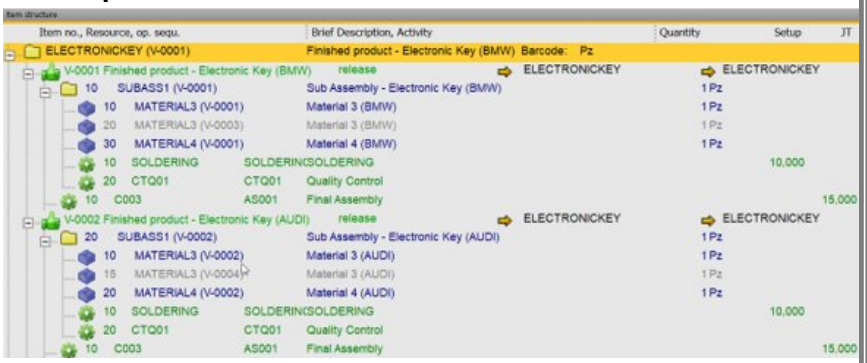
7.4.1 Master Data tab

All basic settings for an item entry are made in the item master.

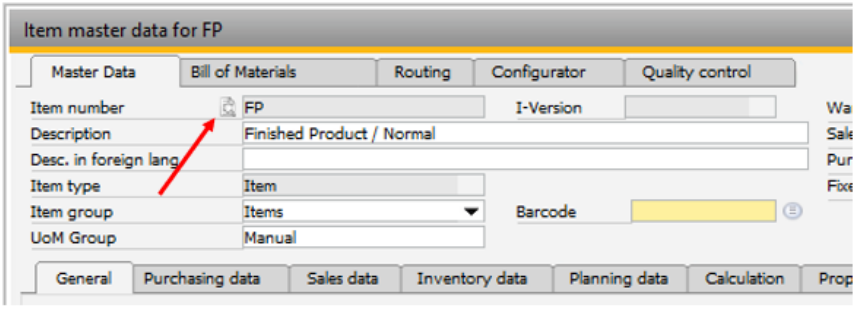
PATH: Inventory > Item structure/Item report > double-click an item > Item Master data for XXX.

Header

Field Description

Field	Description
Item Number	Unique item ID Define the internal item number with max. 50 characters. Limitation: Not all characters are allowed. ***See*** key fields. **Variant production**  If formula fields are set to "visible", the icon appears left to item number.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>


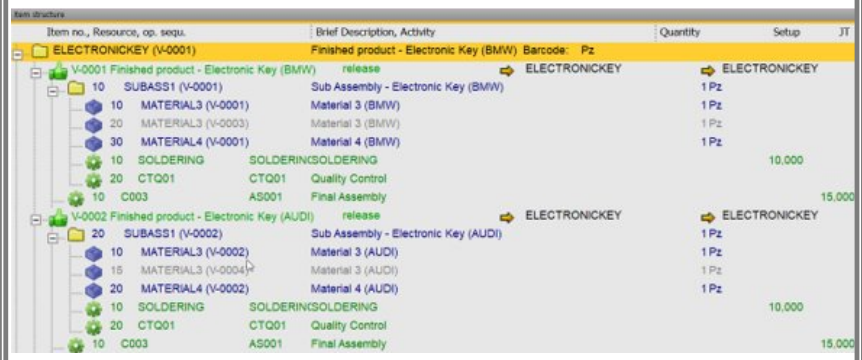
Click on it, to store a script for creating BoM and routings.

Formula icons
<table>
<tr><th>Icon</th><th>Boyum Style icon</th><th>Description</th></tr>
<tr><td>fx</td><td>fx</td><td>Function</td></tr>
<tr><td>fT</td><td>fT</td><td>Table</td></tr>
<tr><td>fS</td><td>fS</td><td>Script and other Variants</td></tr>
<tr><td>fx</td><td>fx</td><td>Empty formula</td></tr>
<tr><td></td><td></td><td>Text edit disabled. Double-click to open the script editor.
Located left of Item number in Item Master data.</td></tr>
<tr><td></td><td></td><td>Text edit - script is inside. Double-click to open the script editor.
Located left of Item number in Item Master data.</td></tr>
</table>

Note: This function is only available if the Variant generator is activated in the Configuration wizard.

See more details in Formulas, Tables, Variables and BeasScript.
</td></tr>
<tr><td>Serial ID</td><td>Only display of the used serials (number range for new items)</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
I-Version	Version number of the item Note: Only for Serial- and Batch-managed Items Managing version controlled items allows to have multiple reviews of an item, with eventually a BoM and a routing associated to each version. It is possible to keep control over the usability of a version on different levels of the company processes and have a track record of the revision changes over time.  Default of the current item version If you work with the extended item version, indicate the item version to be used in the order recommendation report or creating work orders. If item version is defined, it is mandatory to define the default version in this field. This field is protected if the current item is not a batch- or serial-managed item. **Compatibility:** In old Beas versions it was possible to use Item Version control for all item types. We disabled this functionality, because a stock-managed control by Item Version is only possible for Batch- and Serial-managed items.

© 2026 Boyum IT Solutions A/S

Field	Description
	If you use Item Version Control for other items, the field "Item Version" is not protected. But for these items the system does not check the correct Item Version in transaction documents. Note: If you delete Item Versions and the item is not Serial/Batch managed, the system protects the Item Version field. If Item Version is active, it is not possible to switch Item Administration from "Serial/Batch" to "Normal". MRP can return wrong result if you work with item version and non-batch/serial managed items. ***See*** Datacheck. ***See*** VIDEO: Item Master Data - I-Version field VIDEO: Item Master Data - I-Version field Edit versions/variants (I-Version)
Barcode	Input of the European item Number (EAN) or item bar code. Any other bar code can also be printed. The bar code can have up to 16 digits. When a bar code is entered, the program checks if it already exists in other items. In this case, it is not allowed to leave the field. You need to enter a unique bar code to save it. Note: In case you wish to use bar code scanning in WebApp Terminal 2.0, you must set up 14-digit GTIN (EAN) bar codes. ***See*** WebApps 2.1 GS1-128 bar code support GTIN (EAN-14) bar codes
Description	Input of the description of the item This is the Item Name which you can see in every window

© 2026 Boyum IT Solutions A/S

Field	Description
	If Item Version is activated and you create a document, the Item Name defined in the Item Version will be used. If Variant Generator is activated and this item is part of the Bill of Materials, the system replaces all placeholder <...> from the description. ***See*** Variant description
Description in foreign language	Input of the description of the item in a foreign language. This description can be copied to documents for foreign language business partners.
Item type	Select from the following options: • Item - Use this option to define items in SAP Business One. • Work - Use this option in the service module to calculate the time required to perform a task. • Travel - Use this option in the service module to calculate the time that a service engineer is on the road. • Fixed assets (not available for selection in Beas) Note: Beas has its own resource administration. Item types "travel" and "work" is not used and therefore not supported. "Fixed asset" items are hidden in Beas, a processing is only possible in the fixed assets module.
Item Group	Divide items into groups Each item is only assigned to one group. The accounts to be charged are stored in the item group, when item group specific account definition is activated. The Item Group field is used later for reports and analyzes. If the user has extended authorization for routing of BOM this field is blocked. ***See*** User authorizations - extended.
UoM Group	Unit of measure group. ***See*** Concept UoM Group
Warehouse Item	Determine whether the item is inventory-controlled

© 2026 Boyum IT Solutions A/S

Field	Description
	The corresponding item can be used in warehouse management by selecting the Warehouse Item option. For example, inventory transactions such as transfers can only be performed for warehouse items. If an item is only defined as a warehouse item, this item cannot be sold or purchased. Note: To define an item as a non-warehouse item, remove the flag for warehouse items. Typical non-warehouse items are e.g. services, electricity or personnel costs. The additional costs incurred by non-warehouse items are listed in the production order. The default valuation method must always be used for non-warehouse items; in addition, an expense account must be assigned to these items (except in the case of an item group). Warehouse items can be converted into non-warehouse items and vice verse, as long as: • No transactions have been posted for the item • No documents exist for the item, e.g. quotations, sales orders, purchase orders, incoming or A/R down payment requests, or draft documents Note: Series or batch items cannot be defined as non-warehouse items.
Sales Item	A sales item is sold to a customer. If an item has been defined as a sales item, a sales order can be created for a customer. This category also includes services, as these are neither purchased nor warehoused.
Purchase items	Purchase items are bought by a supplier. If an item has been defined as a purchase item, a purchase order can be created, for example.
Fixed Assets	Select this option to define an item as a fixed asset, i.e. as an item which can only be bought. Not changeable in this form. Please use Extended (SAP Business One Item window)
UDF	It is possible to activate 4 UDF fields in the Configuration wizard. Note: The item master data is not a Beas table. You must link an SAP UDF field. For more information see Configuration wizard.

© 2026 Boyum IT Solutions A/S

Description of tab

Tab	Meaning
General	General information or definition of the item.
Purchase data	Purchase-related information on the items.
Sales data	Sales-related information on the items.
Inventory data	Entry and display of the warehouse data on the item.
Planning data	Input of planning- and production-related information.
Calculation	Storage of Precalculation data.
Characteristics	Allocation of individual features to the item displayed .
Remarks	Storage of comments on the item displayed .
QC inspection Plan	Definition of QC inspection plans *(until beas9.0-000-002) .*
Parameter	Storage of any further information and description of the product according to any user-definable parameters.
Variant	Name of the variant A-Z. is only visible, if the "Variant per item" is defined in the configuration wizard. Note: Variants are always sorted by A-Z in lists also at a definition instead by the title which is stored in the item master ***See*** variants, configuration wizard
Batch	Extended batch information
Series	Extended serial number information

Right-click menu functions

Function	Description
Report	Open a list of stored reports for master data.
Copy Bill of Materials+Routing	An assembly can be selected here. Its bill of material and/or routing is added to the active assembly. This function is not available for template and set items.
Change Log	Change log for Bill of materials and routing. Note: Changes in the item are executed via SAP Business One. That is why these are not included in Beas change log. The item change log is accessible **SAP Business One > Item screen > Menu Tools > Change log**.
Invent. History	Direct access to the Inventory movements .

© 2026 Boyum IT Solutions A/S

Function	Description
Cross Reference	Cross-reference of the item.
Formula Allocation for Active Input	Store a formula (or other parameter) in active field (or click on the orange "C") Store a formula (or other parameters) in the active field. Note: This function is only available if the Variant generator is activated in the Configuration wizard.
Display Formula fields	Display formula fields icons If variant production is activated, you can use this to activate the formula fields. Note: This function is only available if the Variant generator is activated in the Configuration wizard.
used in	Displays in which assemblies the item or the assembly is used. The complete sub-structure is checked.

back to item master

see

Window

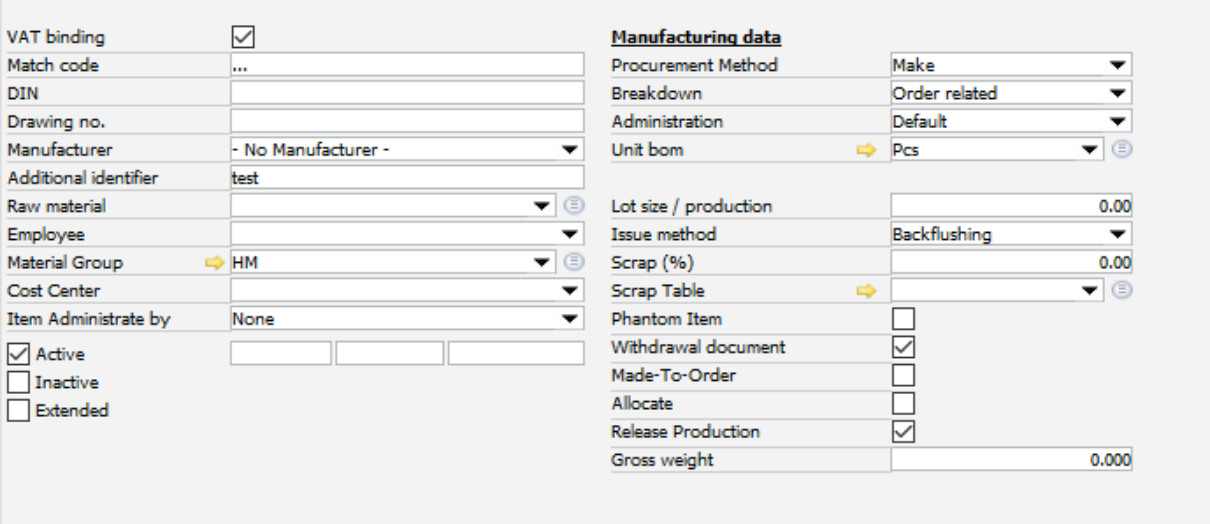
User rights

7.4.1.1 General

Field Description

PATH: Inventory > Item structure/Item report > double-click an item > Item master data for XXX > Master Data tab > General tab.

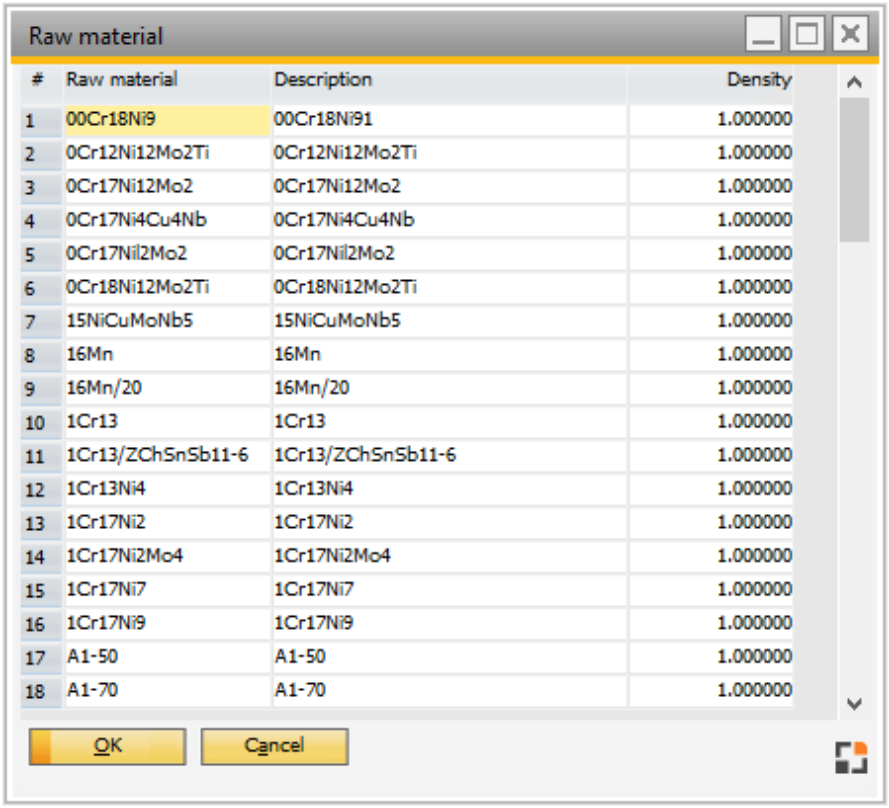
© 2026 Boyum IT Solutions A/S



Window artikel_edit.psr

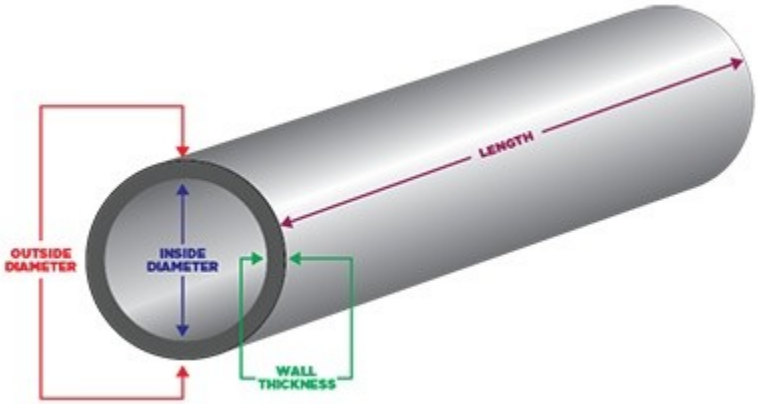
Field	Description
VAT-binding	Flag to identify whether the item is taxable. If this option is selected, the tax group can be defined on the Purchase Data tab.
Match Code	The match code serves as search field to sort and display the part master data according to a criterion created by the user. The match code can be an abbreviation of the initials of supplier/customer name and location or the name of a parts family. All alphanumeric symbols are allowed; the sort order is number-digit. Furthermore, the match code is the key in the info list of the part master.
DIN	This text field serves to document DIN numbers if the master part is a standard part and is registered in a standardization institute.
Drawing No.	Technical drawing number. This is shown in Beas at all key locations. This field can be used for filtering and searching in several Beas windows.
Manufacturer	Enter a manufacturer if the item is a brand product. You can assign an item to only one manufacturer.
Additional identifier	Enter additional information about the item.
Raw Material	Raw material the item is made of Raw Material info defines the raw materials of an item. In the Raw Material definition you can define the Raw Material Id, the Description, Density, up to 4 Properties and a price. Access: Edit Raw Material, License: Basic License, Windows setting are

© 2026 Boyum IT Solutions A/S

Field	Description
	supported. You can define the raw material in the item master data and Bill of materials position.  *Window basis_wst_browse.psr* ***Example*** for Raw Material: A sheet of metal is made of aluminum or iron. A pipe is made of plastic or stainless steel. Used for • Work order Variant system: Define Raw Material by formula. • Work order Variant system: Define Machine: permitted number of rpm . • Calculation: Calculate price by Raw Material (own formula system). • Work order report: Report additional properties for example Melting temperature. • Conversion between the units of quantity if the density stored in the

#	Raw material	Description	Density
1	00Cr18Ni9	00Cr18Ni91	1.000000
2	0Cr12Ni12Mo2Ti	0Cr12Ni12Mo2Ti	1.000000
3	0Cr17Ni12Mo2	0Cr17Ni12Mo2	1.000000
4	0Cr17Ni4Cu4Nb	0Cr17Ni4Cu4Nb	1.000000
5	0Cr17Nil2Mo2	0Cr17Nil2Mo2	1.000000
6	0Cr18Ni12Mo2Ti	0Cr18Ni12Mo2Ti	1.000000
7	15NiCuMoNb5	15NiCuMoNb5	1.000000
8	16Mn	16Mn	1.000000
9	16Mn/20	16Mn/20	1.000000
10	1Cr13	1Cr13	1.000000
11	1Cr13/ZChSnSb11-6	1Cr13/ZChSnSb11-6	1.000000
12	1Cr13Ni4	1Cr13Ni4	1.000000
13	1Cr17Ni2	1Cr17Ni2	1.000000
14	1Cr17Ni2Mo4	1Cr17Ni2Mo4	1.000000
15	1Cr17Ni7	1Cr17Ni7	1.000000
16	1Cr17Ni9	1Cr17Ni9	1.000000
17	A1-50	A1-50	1.000000
18	A1-70	A1-70	1.000000

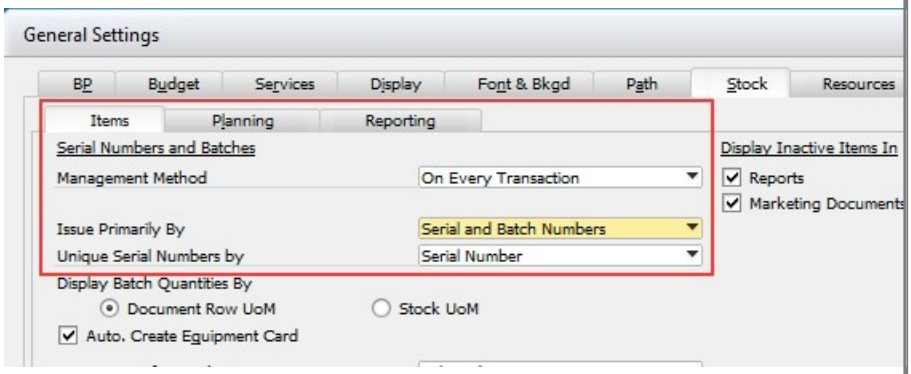
© 2026 Boyum IT Solutions A/S

Field	Description
	raw material is required for this. ***See*** Unit of Measurement – Conversion. Example: Pipe in a Bill of Materials Position Inventory UoM is kg Consumption is Pcs with length, height and width.  Formula: `((length * od * pi()^2) - (length * id * pi()^2) ) * density` For more information ***see*** Unit of Measures.
Employee	Employee responsible for maintaining the item master data.
Material Group	Divide the item into groups Beas offers a grouping possibility with the Material Group field. This group is useful for filtering, searching, production planning, programming (since it is integrated with MRP and APS on the sorting and filtering options), and for the calculation function (a surcharge rate can be linked to each Material Group). The material surcharge is stored for Precalculation. ***see*** Material Group If the user has extended authorization for routing or BoM, this field is locked.

© 2026 Boyum IT Solutions A/S

Field	Description
	See Authorization – Extended
Cost Center	Profit center, cost center in cost accounting The entered cost center can be transferred to the posting document for production postings. ***See*** Configuration wizard – Assembly – Account determination
Item Administrate by	Method to receive and release items: Defines how to use batches or serial numbers for items when creating material issue or material receipt documents. This will have impact on material issue and material receipt in production processes. • None (Default): Method if the item has neither a serial number nor a batch. • Serial Numbers: Method for managing the serial numbers of the item. • Batches: Method for managing the batches of the item. **Limitation:** - Only "Management Method "On Every Transaction"is supported. - Primary issue: Only by "Serial and Batch Numbers" is supported. - Modifications of "Manage Item by" are **not** supported after transactions are created with the existing type of item. General settings – Stock Only the following combinations are supported: Manage Method "On Every Transaction"

© 2026 Boyum IT Solutions A/S

Field	Description
	Issue Primary by "Serial and Batch Numbers" Unique Serial Numbers by "Serial Number"  **Notes:** It is not possible to change this field - If Item Version is activated - Stock is available - Batch- or Serial number related items are created.
Valid	Date range for specifying the validity period for the item.
Active	Period in which item is active.
Inactive	Period in which item is inactive.
Extended	Opens both upper switches (if disabled, only one is available).
UDF 1-4	Displays up to 4 free fields To use these: 1. Create UDF's in SAP Business One for an item 2. Go to: **Configuration wizard > Item > View > Item master** 3. Enter designation for UDF 4. Click on cogwheel icon right to UDF 5. Select the UDF you created in "UDF Column" . *(beas 9.1 PL: 08, item_udf)*

Manufacturing data (Right side)

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Procurement Method</td><td>Defines the mode of procurement

Make – Scheduling creates production order recommendations for the item.

All higher-level items should be defined as manufacturers so that the requirement can be calculated for the subordinate items during scheduling. In the case of a bill of materials for sales or assembly, no actual production order is output for the higher-level items, only the requirements for the subordinate items.

Buy – Scheduling creates purchase order recommendations for the item.

The Buy method should be selected for the subordinate items of the lowest level of the Bill of materials for items which are not part of the Bill of materials.</td></tr>
<tr><td>Breakdown</td><td>How the Bill of materials/routing is broken down (exploded)

Details

In manufacturing and Beas, breakdown or explosion is the action of breaking apart the Bill of materials for each assembly or sub-assembly into its components. Differentiating between make-to-stock and make-to-order items helps in defining a production strategy. It also defines a combination of scenarios on production planning and execution processes.

The breakdown Variant is defined in Item Master Data > General tab > Manufacturing Data > Breakdown.
Note on APS: If no Breakdown method is defined, the item will not be considered correctly in the APS calculation.

The following Variants are available:
<table><tr><th>Breakdown</th><th>Procurement Method</th><th>Description</th></tr><tr><td>non</td><td>buy</td><td>Ignores Bill of materials</td></tr></table></td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description

Breakdown	Procurement Method	Description
breakdown		Recommended to be used when the item is a general purchase ("buy") item, which normally has no Bill of materials attached to it. Therefore, this item is considered as a purchase item. In work orders it is used for finished goods with mode of procurement set to buy, Beas considers all BoM positions as purchase items and suggests to create a purchase order, in case there is not enough in stock of that item. **Limitation:** When this type of breakdown is used with Produce ("make") items, all information of the Bill of Materials will be ignored.
provision parts	buy	Bill of materials define the provision Items that are included in the purchase item. ***Example***: If you buy an engine from a supplier, and it always comes with a can of motor oil and a gallon of coolant. In this situation, you still need to keep track of how many cans of motor oil and gallons of coolant you have on inventory. The *Provision parts* option is used to define these types of item. This option allows to insert additional items in the bill of materials list so at the moment the goods receipt is issued for the purchase order, Beas suggests and completes the goods receipt for the existing provision parts. For Buy items, MRP generates purchase order recommendations. For Produce items, MRP generates production order recommendations. **Limitation in MRP:** Beas does not calculate MRP Sub-assembly requirements

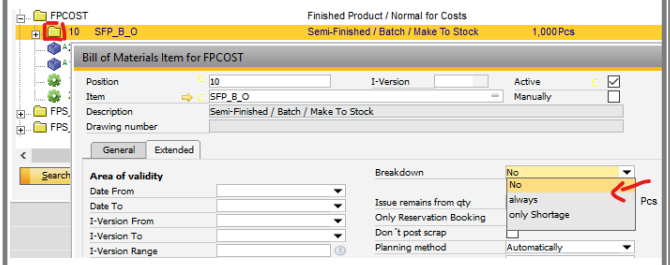
© 2026 Boyum IT Solutions A/S

Field	Description

Breakdown	Procurement Method	Description
		for items defined as "Provision parts". ***see*** Provision parts Goods receipt with provision
storage related	make	for storage related production or order related production This is an assembly for storage- or order-related manufacturing. Sub-assemblies are produced separately or order-related. • You can define a configuration • You can define a short variant • You **cannot** create a precalculation • You can plan stock in MRP • You can use the produced assembly for other orders Video **Storage-related production** Use MRP for creating a work order. **Order-related production** For order-related production the activation of the reservation system is mandatory. Finished goods Activate Production - Reservation - Receipt reservation only at : always Working with MRP: - Click on the Sales order and

© 2026 Boyum IT Solutions A/S

Field	Description

Breakdown	Procurement Method	Description
		create work order for this Sales order Semi-Finished goods Assemblies can be produced order-related, when the respective option was selected in **BOM item > breakdown.**  The setting has no effect when the work order is created by the calculation functionality. The possible settings are: - No: No work order positions will be created for the semi-finished goods - Always: Works exactly like order-related semi-finished goods - Only shortage: Creates order positions only if there is not enough inventory In order recommendation report these assemblies will still be created as stock-related assemblies. ***See*** BoM position - breakdown
order related	make	**only order-related** This is an assembly that is produced by order, that is: The sub-assemblies are produced together with the main assembly.

© 2026 Boyum IT Solutions A/S

Field	Description

Breakdown	Procurement Method	Description

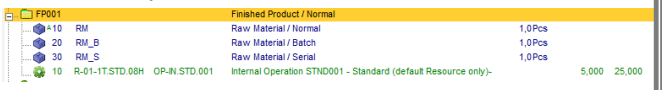
Note: Only order-related!

- You can define a configuration in the Sales order.
- You can define a short variant in the Sales order.
- You can create a precalculation in the Sales order and can change the substructure inside the precalculation. You can use the definition in precalculation for order-related work orders.
- You can create an order-related work order.
- You **cannot** plan stock in MRP.
- You **cannot** use the produced assembly for another order in a simple way.
- Maximum structure level: 20 levels.

Concept for order-related finished good products

An order-related finished product has Bill of Materials and Routing.

Use this only for Sales order



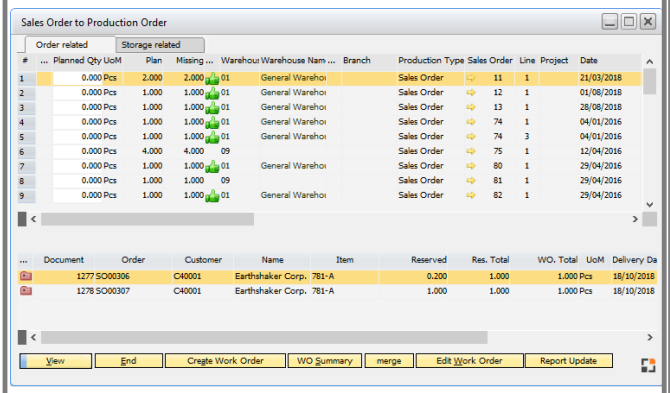
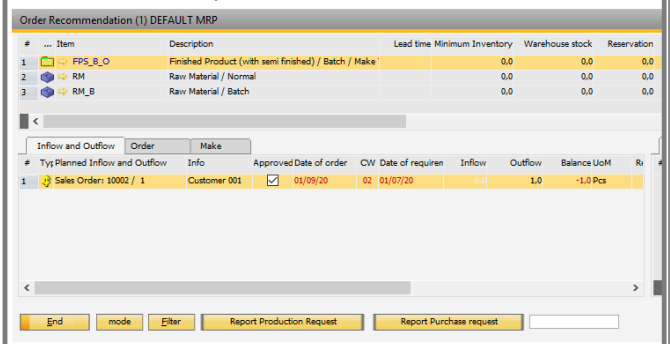
In Sales order you can create Precalculation or/and Configurations or/and Short variants.

You can change the Bill of Materials/Routing in Precalculation.

Notes:

Do not use MRP for planning the request.

© 2026 Boyum IT Solutions A/S

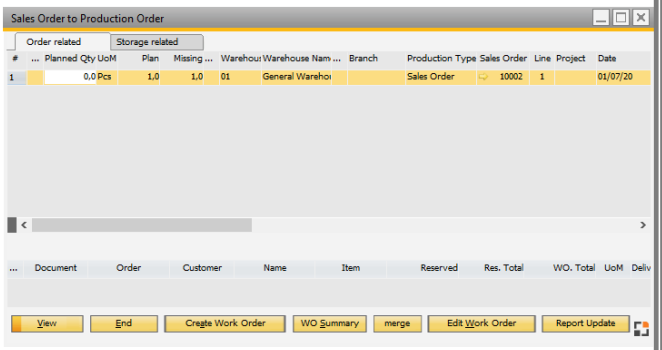
Field	Description
	<table><tr><th>Breakdown</th><th>Procurement Method</th><th>Description</th></tr><tr><td></td><td></td><td>Do not work with lot size. It is always order-related. **Create work order** Work order created via Sales order to Work order.  You can see order-related items in MRP, but the MRP has a "stock view". It is not possible to plan the requirement for order-related items in the MRP. **MRP** In MRP you can see the sales order and it is possible via double-click to produce order-related. But the MRP is item related. Do not use it to manage order-related requirements.  </td></tr></table>

© 2026 Boyum IT Solutions A/S

Field	Description

Breakdown	Procurement Method	Description

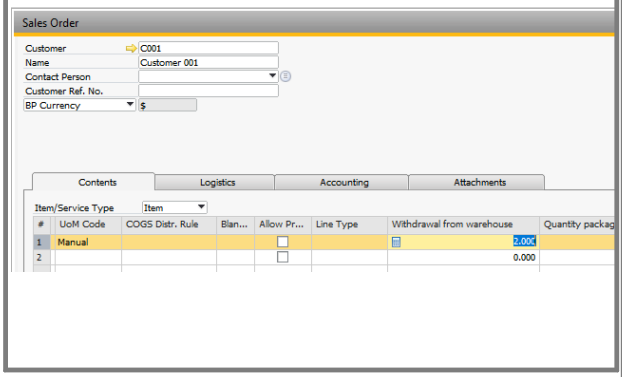
Use the window "Sales Order to production Order" This window has order-related view. You can create work orders directly and only see entries that do not have enough production orders. Here the system ignores the stock because of the order-related view:



Special cases

- Deliver from stock

Example: You produced an order-related finished goods, but the customer canceled the order.
Now the item is on stock.
If you have a new sales order with the same product, you can define the quantity which you want take from stock in **Sales order > column "Withdrawal from Warehouse"** .



© 2026 Boyum IT Solutions A/S

Field	Description
	Breakdown / **Procurement Method** / **Description**

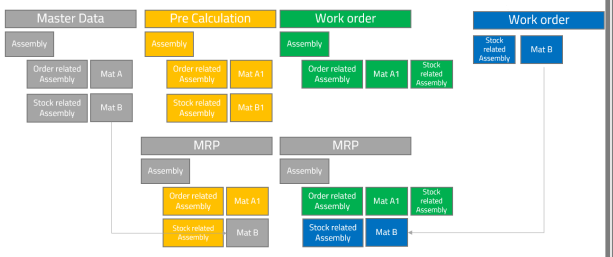
Note:

Use this functionality only for special cases. This is not the original idea of order-related production.

Order related Precalculation

In the MRP, order-related assemblies receive their data from the work order and stock-related assemblies from the item master data.
Therefore, the MRP ignores changes made in the precalculation for stock-related assemblies.

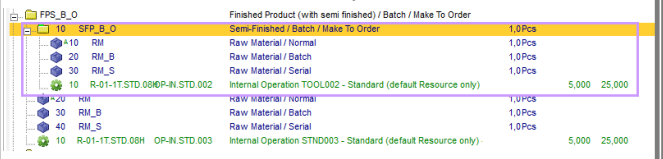
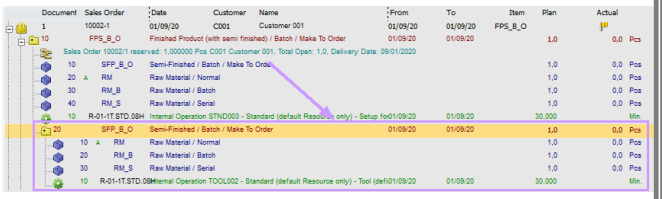
In the following video we describe the complete process:



Concept order related Semi-Finished items

Use order-related semi-finished products if you want to produce this item only for an order or stock-related finished product.
You can produce the order-related semi-finished product as Finished product for a sales order, but not on stock.
In MRP you can see the requirements for semi-

© 2026 Boyum IT Solutions A/S

Field	Description
	Breakdown / **Procurement Method** / **Description**
	finished product, but normally this does not change the balance. In the following example you can see the semi-finished product "SFP_B_O", which is part if Finished Product "FPS_B_O" In the Finished Product the semi-finished product is defined as a Bill of Materials position.  This example produces the following work order:  Inside the semi-finished product you can insert additional semi-finished products. Beas supports max. 20 levels. Recursion: If you insert the same order-related item as Bill of Materials, the system does not break down this order-related semi-finished product. However, it is possible to create a recursive structure. Example: Recursive structure In the following example a recursive item is inside the structure:

© 2026 Boyum IT Solutions A/S

Field	Description

Breakdown	Procurement Method	Description

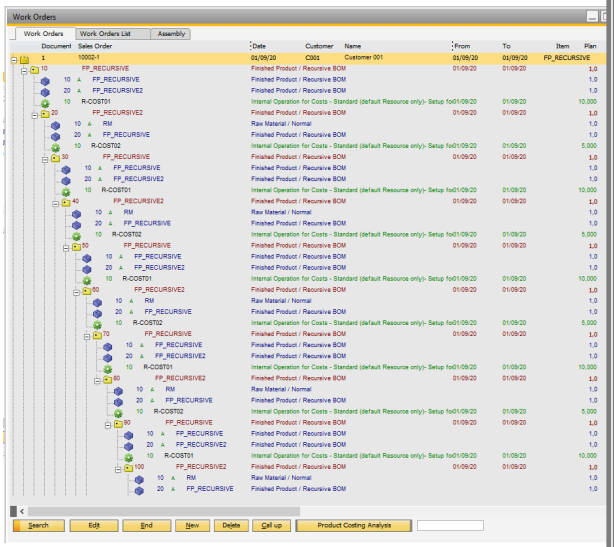
FP_RECURSIVE is inside FP_RECURSIVE. The system display sthis only as material.

Inside FP_RECURSIVE2 you can see FP_REURSIVE. In this case it produces a recursion.

This produces the following recursive production order:

FP_RECURSIVE: no breakdown

But inside "FP_RECURSIVE2" there is "FP_RECURSIVE" again, which produces the recursion, but max. up to 20 levels.



Beas displays the following error message:

© 2026 Boyum IT Solutions A/S

Field	Description

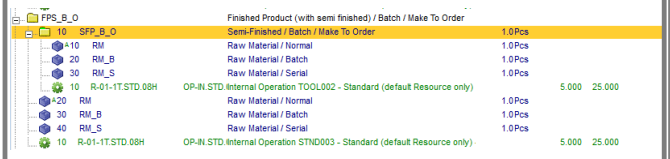
Breakdown	Procurement Method	Description

BoM explosion of more than 10 levels not possible!
Cancel sub-assembly FP_RECURSIVE

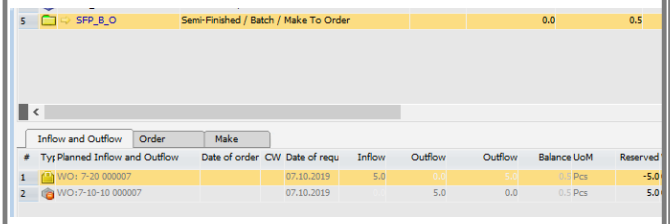
Reservations on storage related orders for order-related assemblies

For the following order-related work order, MRP displays the reservation. As it is an order-related work order, the balance of the reservation is neutral (we porduce 5 which fulfills the sales order -5).

WO:



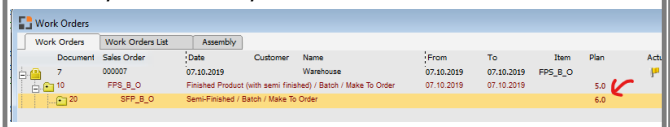
MRP:



The quantity of the work order is manually increased

WO:

Quantity is manually increased from 5-6.



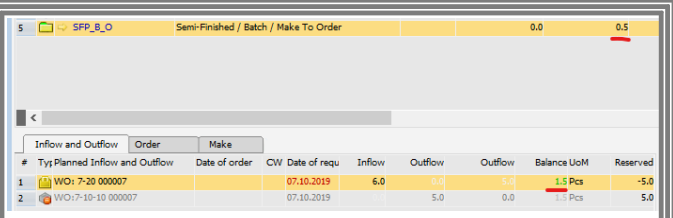
MRP:

In this case stock is produced (there was originally 0.5 in stock).

© 2026 Boyum IT Solutions A/S

Field	Description

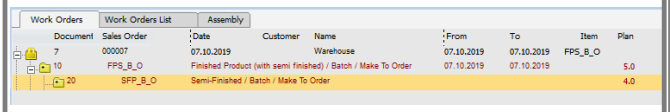
Breakdown	Procurement Method	Description



The quantity of the work order is manually decreased

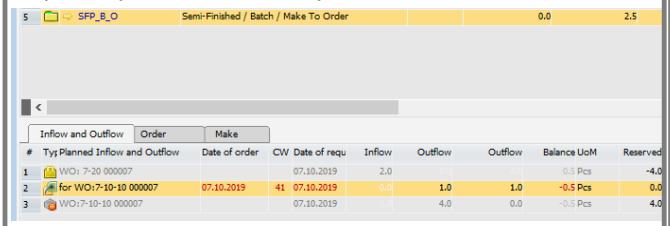
WO:

Quantity is manually decreased from 5-4.



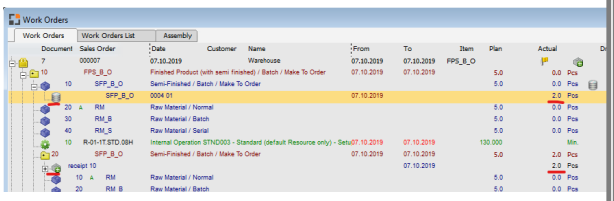
MRP:

An additional line is added to produce the additional required piece and this is produced to stock.



- Special cases
  - Partial postings in order-related sub-assemblies are ignored in the MRP balance calculation

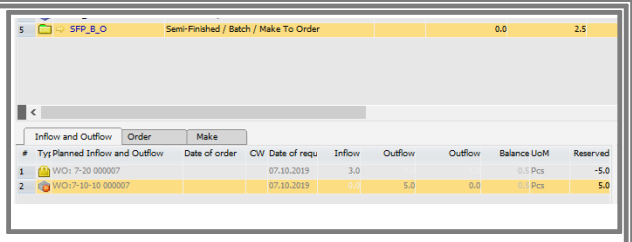
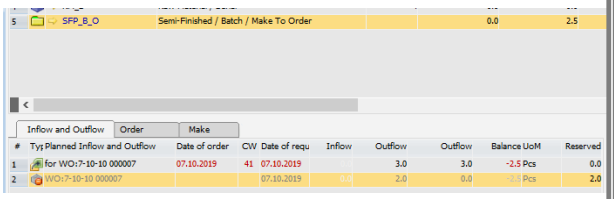
    WO: With partial posting



    MRP:

© 2026 Boyum IT Solutions A/S

Field	Description

Breakdown	Procurement Method	Description
		 Closed sub-position in order-related sub-assemblies If the sub-position is closed and the requirements are not fulfilled, a new work order is created to deliver the rest. This is a storage-related work order. WO: With closed position MRP: 
phantom assembly group	make	Item is a phantom item This is a phantom assembly, i.e. its routing and Bill of materials are part of the used assembly. If the item has the type "Pseudo item", it behaves like an item with scheduling "Phantom assembly".
set	make	Define this item as SAP Business One set item

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Breakdown</th><th>Procurement Method</th><th>Description</th></tr><tr><td>item</td><td></td><td>The Sales BoM represent a finished product assembled at the sales stage, that is, the finished product is composed of its component items only when the parent product is actually sold. The component items are stored and tracked individually in the warehouse. For both the Sales BoM, you do not manage the parent product as an inventory item, but rather as a sales item. The components can also be sales and inventory items in their own right. When you create the delivery to dispatch the customer order, the components are backflush issued from inventory. Note The components for Sales BoMs and Assembly BoMs must be sales items. The BoM will be defined in SAP Business One Bill of Material window Use a Sales BoM where there is a fixed combination of components and the customer needs confirmation of each item. The component items cannot be altered or removed from a sales order. Other items cannot be inserted between the parent and component items in the sales order. However, the quantities of the component items can be modified. Example Sharon's Garden Ltd. sells garden tools and outdoor furniture. One of her best sellers is the Metal Table set. This set is composed of one metal and glass table, six</td></tr></table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Breakdown / **Procurement Method** / **Description**
			metal chairs, and one umbrella. If she chooses the Sales BoM, the table, six chairs and one umbrella, and the Metal Table set all appear in the sales order. She can sell this set with only four chairs, but she cannot introduce a footstool as part of this set in the sales order. If she chooses the Assembly BoM, then only the Metal Table set (the parent product) is listed in the sales order. In both cases, each of the component items is tracked individually in the inventory. When you create the delivery to dispatch the customer order, the components are automatically issued from the warehouse.
	template	make	Define this item as template item The Template BoM is a bundle of items, where the parent product is the first item on the list. It does not act as a BoM once it is added to the sales document, but rather as a list of items brought together at the same time. You can update the quantity of those items, swap items, or delete them in the BOM or the sales order. The components appear below the parent as a list of items in a sales document. Use the Template BOM when you require flexibility in selecting components for a product. ***Example*** Computers can be sold as a standard unit, in which case the Production or Sales BoM is appropriate. However, to customize a sales order, use the Template BoM to allow for DVD burners, speakers, ergonomic keyboards, and so

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Breakdown</th><th>Procurement Method</th><th>Description</th></tr>
<tr><td></td><td></td><td>on.

The BoM will be defined in SAP Business One Bill of Material window</td></tr>
</table>
</td></tr>
<tr><td>Administration</td><td>Methods of item administration
<table>
<tr><td>Here you can define how the BoM and routing are linked to the item.

Only editable if an Item, a batch, or serial managed item and a Version is defined.
Default = ID of BoM and routing are the same as the item ID.
Extended view = like default, but in structure view the BoM / routings are displayed per version. This setting affects only the display.
Separate BoM = Item ID, BoM ID and routing ID can be different. In the item version you store which BoM is to use for the item and for the version. In the BoM you define which routing to use.

To activate this field:
1. Click icon right of Item Version – open list of all Item Versions
2. Define a version and go back to the item window
3. Choose the Administration (this field) and update the window. Now full functionality is available for this item.
Note: Item Version only supported by Serial or Batch managed items
If you use this with non Batch/Serial managed items, the MRP will return wrong result. More see datacheck</td></tr>
</table>
</td></tr>
<tr><td>Production UoM</td><td>The unit of measure for consuming this item when it is a component of another items bill of materials during production.
See Edit item's unit of measure
All other units are managed in the Purchase Data, Sales data and Inventory Data</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

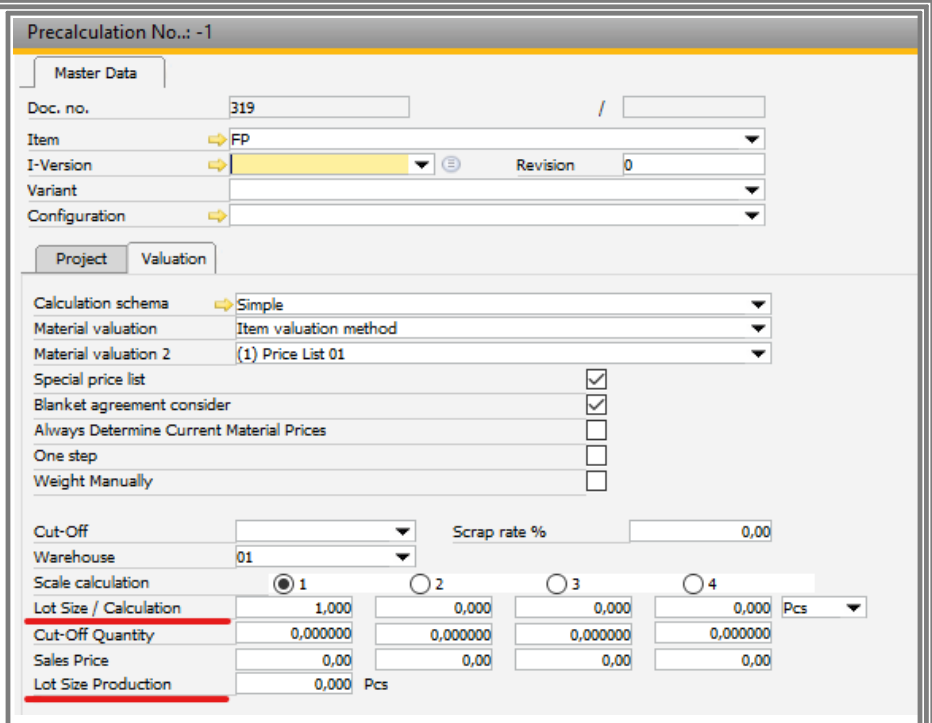
Field	Description
	tab or centrally using the orange arrow in the "Units of Measure" window. Quantity units for production In master data the BOM quantities and the work order quantities are always indicated in production UoM The unit can be used in which material was actually withdrawn: for example storing in liters, but withdrawal in kg. In all functions, where required quantity and stock are indicated, the total stock is always displayed in inventory UoM, as otherwise no comparison of planned quantity, posted quantity and stock would be possible. A special case is single material posting There, the withdrawal quantity can be given in production UoM, which is converted to Inventory UoM immediately. The conversion from inventory UoM to production UoM is defined in Quantity units – Conversion Note: All other units are managed in Purchase/Sales/Inventory tabs or using the orange arrow in window "Quantity units"
Specific weight	Defines specific weight This field can be used as a conversion field between consumption unit and warehouse unit: 1. Activate Specific Weight in **Configuration wizard > Item** 2. The specific weight field in the item master is now used as a conversion factor between the units of store and quantity. 3. Only "density" is specified in the conversion formula between units of store and usage ***see*** Master data - Units of measure If this field is disabled in Configuration wizard, density can be entered in raw material.
Lot size / Production	Production lot size in warehouse unit. Define the max. Lot size for production in Inventory or Production UoM ***See*** concept Lot size

© 2026 Boyum IT Solutions A/S

Field	Description
	Limitations If the lot size produces more than 10 Positions, the system asks if you want to continue. If the lot size produces more than 200 Positions, the system cancels the process with a message: *' Lot size is set to <losgr>. This corresponds to <summ> Positions created. Max. allowed are however <limit> positions. Creation is aborted (LimitLotSize)'* It is possible to increate the limitation. Note on sub-structures: Lot sizes of order related sub-structures are considered only if activated separately. ***See*** Configuration wizard – Production – Create new. If the count of the created positions is larger than the limitation, the system ignores the lot size in the last position and displays an error message (*LimitLotSize)* ***Example***: 1000 Pcs, Lotsize = 1. 200 Positions created. Position 1-199 for 1 Pcs and Position 200 with 801 Pcs MRP Calculation: Ignores Production Lot size while calculating requirement based on sales order, forecast and other documents. Precalculation - Lot Size Precalculation supports Production Lot size **Lot size - Precalculation** - "Calculation lot size" is the default lot size for the calculation. - "Production lot size" is the maximum lot size and is relevant for the calculation of fix costs.

© 2026 Boyum IT Solutions A/S

Field	Description



Window pk_haupt_edit.psr

The production lot size affects:

- Setup times in a Bill of materials position.
- Fixed times (Quantity per = 0) in routing positions.
- Fixed surcharges.
- Purchase prices (special price list).
- Price per lot size

In sub-components the calculation uses the production lot size. If you activate Configuration wizard > Production > Create > Sub-assemblies: Consider production lot size, the system uses the production lot size defined in the sub-component, otherwise the lot size of the main item.

Example:

Routing position 10 Min setup time, 5 Min Mach+Labor time

Lot size calculation: 100, Production: 0 (ignore it)

```
Cost  = 10 Min + 100* 5 Min = 510 Minutes * cost rate
```

© 2026 Boyum IT Solutions A/S

Field	Description

Lot size calculation: 100, Production: 30

In this case we must calculate the production `30 + 30 + 30 + 10 = 4 times`.

```
Cost = 4*10 Min + 100*5 Min = 540 Minutes * cost rate
```

Working with sub-assemblies

If consider Sub Assemblies is activated, the system split the sub-assemblies too

Example:

Production 40 Pcs, Lot size 30 Pcs

Sub assembly is order related, Production lot size = 0 Pcs (no lot size)

This case is a WO position-related process.

If an order-related sub-assembly has its own lot size, the system checks this, as well - but always per production level from the parent item.

Example : Lot size 20 Pcs

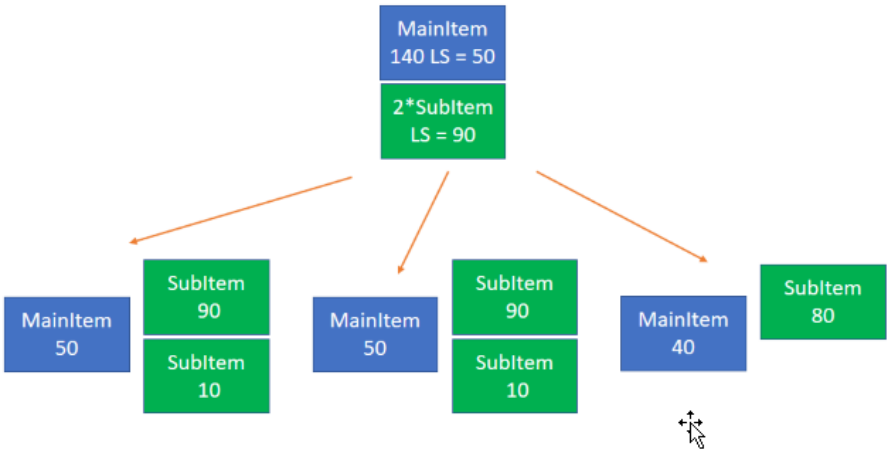
© 2026 Boyum IT Solutions A/S

Field	Description

In this case the setup time will be multiplicated with 4 in the sub assembly

2. Example for order-related sub-assembly:

- Main and sub-item are order related, the lot size of the main item is 50
- We need the sub-assembly 2 times per main item, the lot size of the sub-item is 90
- We want to produce 140 Units of the main item



Result:

- We need to produce 3 lots for Main item (50 + 50 + 40)
- For the first and second lot of the main item we need 2 lots of the sub-item (90 + 10)
- For the last lot of the main item we need 1 lot of the sub item (80)

Stock-related

if the sub-assembly is stock-related, the sub-assembly ignores the lot size from the parent assembly:

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>

if the stock related sub-assembly has its own lot size, the system uses it without relation to the lot size of the parent item.

Note:
This is working differently than in Beas 2020.11 or older. If you need the old functionality, you can change this in a user event. See Script documentation.
</td></tr>
<tr><td>Issue method</td><td>Defines the issue method.
Defines the way the item is issued in production: backflushing (automatically) or manually.

<table>
<tr><th>Setting</th><th>Description</th></tr>
<tr><td>Manually</td><td>The components are manually output to the production order without considering the output of the product.</td></tr>
<tr><td>Backflushing</td><td>The components are automatically issued to the production order once completion of the higher-level item is reported. (e.g. reporting the last operation, Goods receipt of the assembly or via Materials Management – Backflush).</td></tr>
</table>

Serial number- or batch number-managed items cannot be set to "Backflushing".
However, if this type of item should generally be removed with backflushing, it can be activated in the Configuration Wizard.
see Backflushing - Also post batches
Webinar 8/2017, Part Configuration</td></tr>
<tr><td>Cut-Off (%)</td><td>Portion of cut-off</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Only available when Mode of Procurement is defined as “Buy”. This field is used to define a percentage of the material that is wasted when it is used as raw material for production. For example: if Cut-Off (%) is set to “10” and the item is linked to a Bill of Material with the quantity of “50”, Beas will change the quantity to “55” in the position when a Work Order is created (“50” from Bill of Materials plus “5” from 10% cut-off rate). Cut-Off (%) will also be considered while calculating cost in the pre-calculation functionality. Video: Scrap on Item Level ***see*** Scrap, Calculated scrap, Option consider cut-off, Production item – cut-off
Scrap Rate %	Portion of scrap This value is used for Precalculation. Only available when Mode of Procurement is defined as “Produce”. Scrap factor for assemblies relates to the material requirement for an assembly rather than the assembly. **Assemblies:** Scrap factor for assemblies is not related to the assembly requirement, but only to the material requirements of this subassembly. In Precalculation, there are only an information on quantity for BoM item and assembly. This creates an additional requirement for the assembly. If then a work order is created, the behavior may vary. **Phantom assembly** Scrap factor is calculated and entered as "calculated scrap" into the BoM item and taken into account. **Order-related Item** BoM Order related items do not apply the scrap factor. The system generates a work order position for the order related item and the scrap factor is applied to the sub work order BOMs only. **Purchase part:**

© 2026 Boyum IT Solutions A/S

Field	Description
	The scrap factor is calculated in the work order as total value, added to the cut-off value and other scrap factors and entered to the BoM column calculated scrap. Precalculation: entered in **Master Data > scrap** and also taken into account. Note: For using order time receipt function and reporting scrap ***See*** Configuration wizard – Backflushing Video: Scrap on Item Level ***see*** Concept Scrap, Calculated scrap, Option consider cut-off, Production item – cut-off
Scrap Table Cut-Off Table	Cut-off factor and cut-off surcharge of the item. Define item based scrap on table level. The Scrap defined in Scrap/Cut-Off Table The scrap factor affects: purchase parts: "calculated scrap" assemblies: material requirement of the subassembly sub-assemblies: surcharge for scrap in sub-components Note • using order time receipt function and reporting scrap ***See*** Configuration wizard – Backflushing • no consideration in Precalculation Video: Scrap on Item Level ***see*** Concept Scrap, Calculated scrap, Option consider cut-off, Production item - cut-off
Phantom Item	Is it a phantom item? Phantom items only define the Bill of materials and routing, have no inventory maintenance and can be neither purchased nor sold. An assembly can have any number of phantom items, finally used to combine the Bill of materials and routing according to the assembly principle. **Note**: A phantom item is an item type in Bill of materials which only has a

© 2026 Boyum IT Solutions A/S

Field	Description
	technical or structural function. Phantom items are not actual components or intermediate assemblies, so they are defined as non-warehouse items. For example, a company produces different laptops as finished good, and all different laptop models use the same set of cables: monitor connector, power connector, HDMI cable. It is easier to group the set of cables as a phantom item in Beas, so you do not have to assign the cables to each Bill of materials separately. To do so, we have to create the Bill of materials with all required cables, and link the phantom item as a component of all laptop models. After creating a Work Order, Beas only includes the phantom item structure (Bill of Materials and Routing) and not the item as an assembly.
Withdrawal Document	For information only.
Made-To-Order	For information only.
Allocate	If active, this item must be made available in the allocation warehouse. The item has to be allocated to a specific warehouse in order to be available for consumption in a Work Order. ***See*** Allocation – Button Filter.
Release production	Release for production? If disabled, no work order may be created for this item. ***See*** WO Document position.
Gross Weight	For information only.

7.4.1.1.1 UoM of item

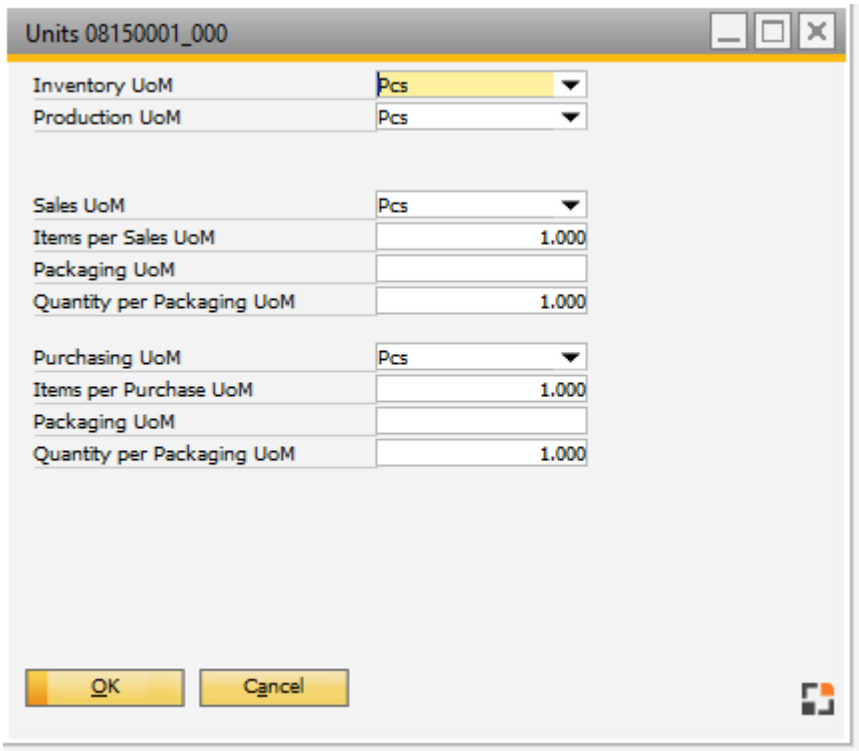
Item: Unit of measure

PATH: Inventory > Item structure/Item report > Double-click an item > Item master data for XXX > Master Data tab > General tab > double-click "Unit BoM" .

In this window you can define all UoM and factors for this item.

Note: If UoM Group is defined, you can only choose the UoM which was defined in the UoM Group.

© 2026 Boyum IT Solutions A/S



Window artikel_edit_unit.psr

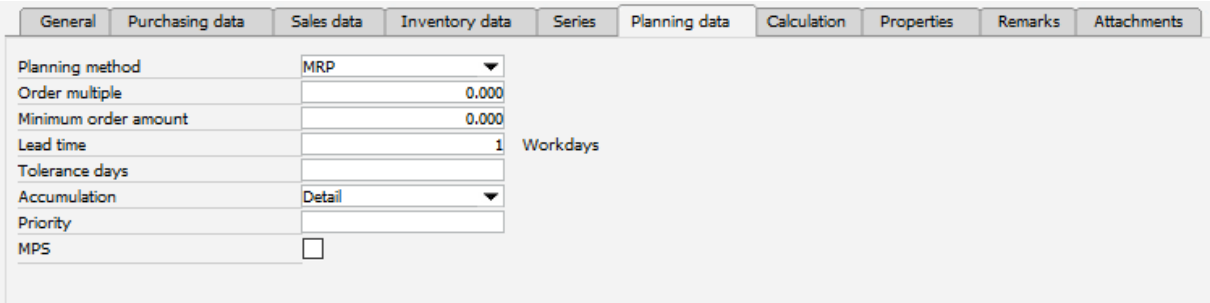
Field	Description
Inventory UoM	Unit in which the item is stored
Production UoM	Unit in which the item is withdrawn for production
Inventory counting UoM	Unit for stocktaking
Sales unit	Unit for item sales
Item per sales unit	Quantity of items per sales unit
Packaging Uom	Packaging unit of measure for selling this item
Qty per packaging uom	Quantity of items per packaging UoM at sales
Purchasing unit	Unit in which the item is purchased
Item per purchase unit	Quantity of items per purchase UoM
Packaging Uom	Packaging unit of measure for purchasing this item
Qty per packaging uom	Quantity of items per packaging UoM at purchase

See Concept of UoM

© 2026 Boyum IT Solutions A/S

7.4.1.2 Planning data

Scheduling- and production-related information is input in this tab.



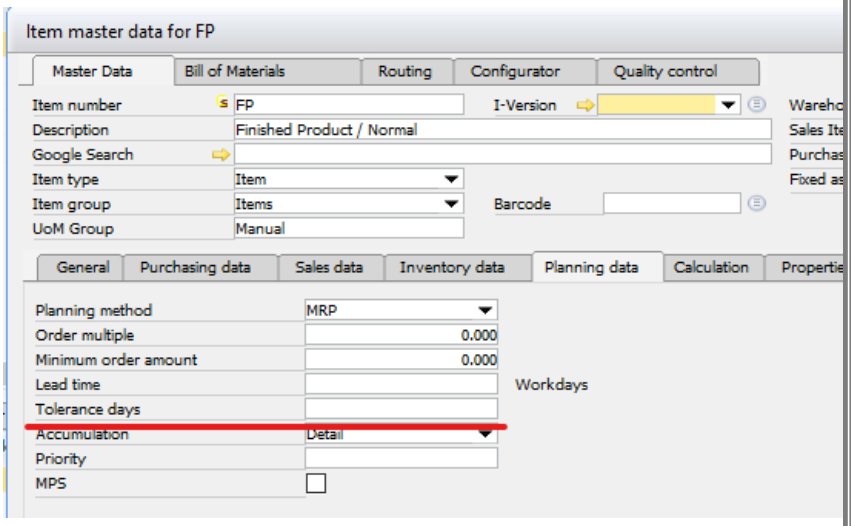
Window artikel_edit.psr

Field	Description
Planning method	Determines the planning method of the item This switch must be activated if item procurement is to be verified through the MRP run (Beas). Selection of one of the following options: • Scheduling (MRP): Planning item procurement with the scheduling system • None: Item procurement is not planned via scheduling, and no production order or order recommendation is created for the item. If dealing with an assembly, it is broken down independent of planning method. Its subordinated items can create a demand in order recommendation report. In BoM you can override the planning method. For more notes ***see*** BoM - Planning.
Multiple order	Determine the multiple order for purchases and MRP requirement coverage calculation Enter a numeric value specifying the lot size for scheduling. Relates to inventory unit. This affects work order and purchase order generation via the MRP run. ***Example***: Multiple order = 10 Purchase order quantity 8 is input or transferred. It is not proposed to increase the quantity to 10. ***Example***: Multiple order = 10, production lot size = 5

© 2026 Boyum IT Solutions A/S

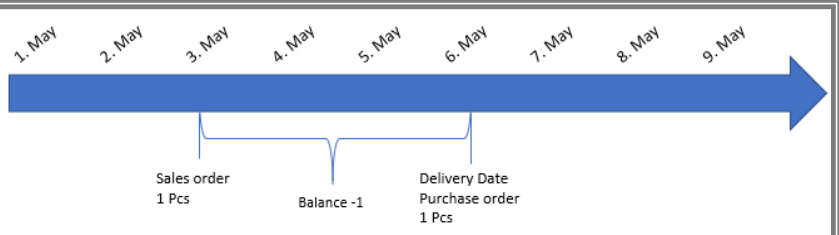
Field	Description
	Production quantity 8 is input or transferred. It is not proposed to increase the quantity to 10. 2 work orders are created for every 5. Multiple orders are considered in MRP - requirement coverage calculation. ***See*** MRP wizard – Breakdown replenishment – Consider multiple orders.
Minimum order amount	Enter a value, specifying the minimum lot size Generally, at least the specified amount is purchased. This is a default, no fixed value. Quantity is in Inventory unit Affected - Scheduling: Create purchase orders - Breakdown sub-assemblies. ***See*** MRP wizard – Breakdown replenishment – Consider multiple orders.
Lead time	Input of the number of work days from the date of the order to the date of goods receipt. This value can be calculated automatically for in-house production. ***see*** calculate resources Resource and lead time calculation video The lead time for in-house parts is calculated according to quantity in the MRP run (this can be optionally deactivated in the MRP run). You can set up lead time to be used instead of operation times in general. ***See*** Configuration wizard – Capacity planning Lead time is always specified in work days. A lead time of 0 days is marked as an "error" by the data check. For assemblies the lead is the production time of the assembly without consideration of sub-structures. ***Example:***

© 2026 Boyum IT Solutions A/S

Field	Description
	Given structure: - X011 with 3 days --- contains order related X012 with 2 days ------- contains storage related X013 with 4 days Lead time for X011 in sum 5 days (order related) Total lead time 9 days, if X013 is not covered from stock
Tolerance days	Number of work days for allowed shortage In **Item Master Data > Planning Data tab** you can define Tolerance days.  Related to order scheduling: If there is negative stock in the time line, the item will be shown as shortage in MRP. Here you can enter the number of days. Negative balance is tolerated. ***Example:*** Stock = 0 Sales order = 3rd May Purchase order delivery date = 6th May Material comes 3 days late

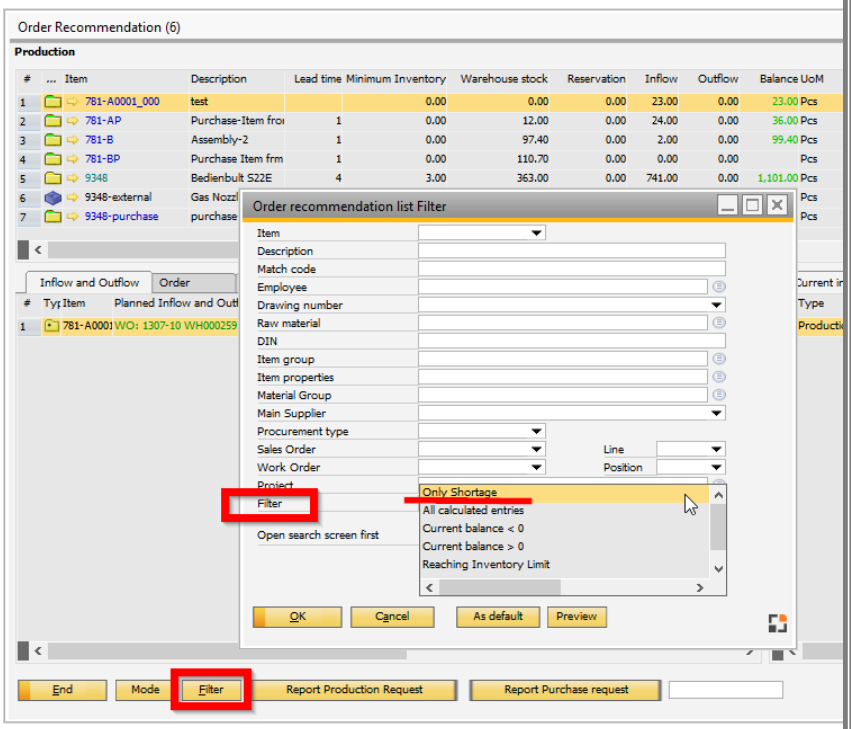
© 2026 Boyum IT Solutions A/S

Field	Description



If the tolerance date for this item is defined with 3 days or more, the result is: OK
If the tolerance date is < 2, MRP must display this piece of information.

In MRP the filter "Only shortage" means:
Display all entries which have a negative balance in the timeline.



(MRP Filter - Predefined Filter)

In this example the item has a balance of 0, but a negative balance between 3rd and 6th May
MRP displays this item if the item has "tolerance days" < 3 days.
MRP does not display this item if the item has a "tolerance days" > 3 days.

© 2026 Boyum IT Solutions A/S

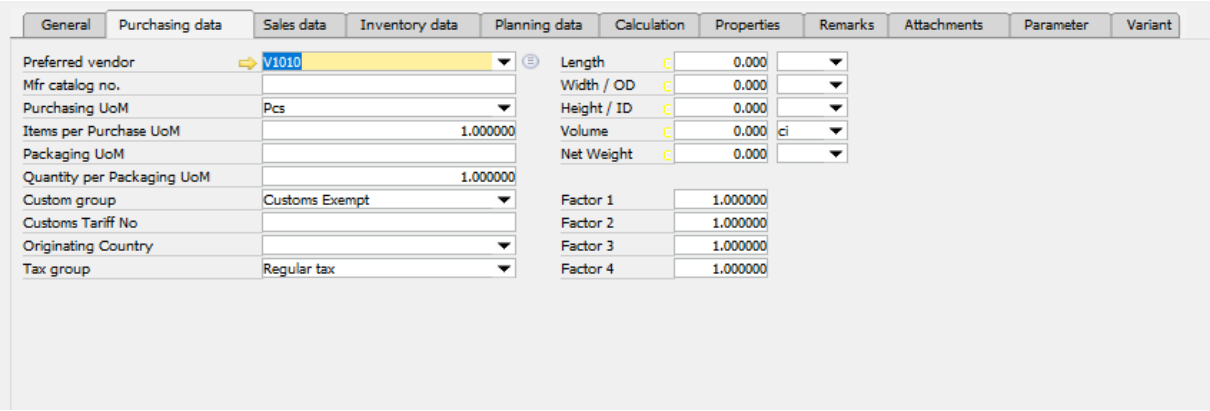
Field	Description
	Negative Balance in past Negative Balance in the past is ignored entirely. The calculation for the time area starts from the current Date. ***Example:*** Today is 5th May Sales Order is 3rd May Delivery = 6th May The system calculates: Balance is negative from 5th – 6th May = 1 day.
MPS	Activate MPS.

Note for Beas Item Master Data:
For additional fields ***see*** Advance Scheduling

back to item master

7.4.1.3 Purchasing data

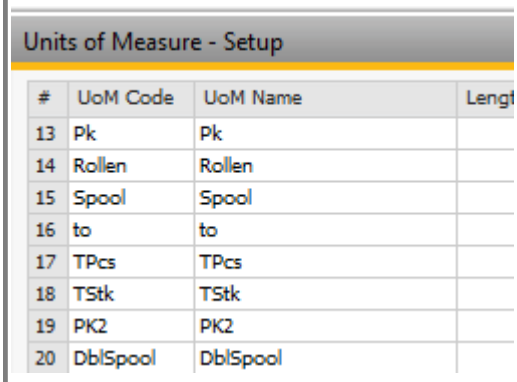
Purchase-related information on the items can be entered in this tab.



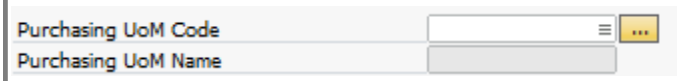
Window artikel_edit.psr

Field Description

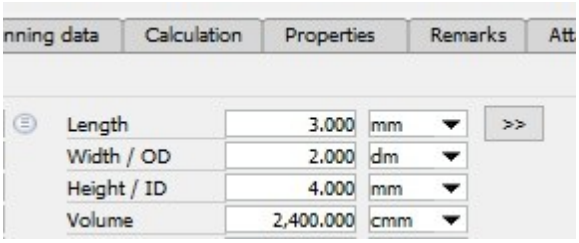
© 2026 Boyum IT Solutions A/S

Field	Description
Preferred vendor	Input of preferred supplier for the item or selection of a supplier from the list. For every recommendation, the system proposes this value automatically. Here you can define additional vendors. Enter the preferred vendor for the item, or select a vendor from the list. Each time SAP Business One creates a recommendation, it enters the value automatically. "Preferred Vendor" is used in MRP as the default supplier. Beas displays Preferred vendors always on top of lists.
Mfr catalog no.	Input of catalog number of the item from the default supplier catalog. This number is displayed in the purchase and sales documents.
Purchasing UoM Name	Input of unit of measurement for Purchase documents SAP Business One standard does not support defined UoM Definition in item master Data. The UoM is only a name. With Beas integration, the name is the UoM ID. It must be defined in Unit of Measure Setup. Beas can work correctly only if UoM Code and UoM Name are exactly the same:  Units of Measure - Setup | # | UoM Code | UoM Name | Lengt | | 13 | Pk | Pk | | | 14 | Rollen | Rollen | | | 15 | Spool | Spool | | | 16 | to | to | | | 17 | TPcs | TPcs | | | 18 | TStk | TStk | | | 19 | PK2 | PK2 | | | 20 | DblSpool | DblSpool | | The system checks the existence of UoM Code in all UoM name fields. It inserts the correct Code or make the field empty if the UoM Code does not exist.

© 2026 Boyum IT Solutions A/S

Field	Description
	 Example: If you insert "sp" + TAB, the System inserts "Spool" Use the golden button with three points to choose the UoM from the list. Note: Many Beas functions, especially MRP and Work order can only work properly if the correct UoM is defined. **Working with UoM Group** If a UoM Group is activated, the system displays two UoM fields. Beas always uses Purchasing UoM name and does not support the code.  This only works if UoM Code and UoM Name are the same. **UoM Code general** ***See*** Concept of UoM
Items per Purchasing UoM	Input of item quantity per purchasing unit.
Packaging UoM	Input of packaging UoM for purchasing, which is a multiple of the unit of measure.
Qty. per Packaging UoM	Definition of quantity per packaging UoM.
Custom group	If the purchased part is imported, the custom group is entered. The customs duties can be calculated with this. Select custom group from the list, re-define one to create a new custom group.
Customs Tariff No	The customs tariff number of the item.
Originating Country	Country of origin of the item.
Tax group	Selection of a tax group which is used to specify the tax to be used for country-specific tax calculation: • No tax • Regular tax (default)

© 2026 Boyum IT Solutions A/S

Field	Description
	• Use Tax
Length, width A/D, height I/D, volume	Define Length / Width / Height and Volume for this item related to the Purchase Area (not the Inventory UoM). Enter the dimensions of the purchase item. If you defined the units of measure when you configured the system, enter the measurements and press TAB and the system automatically enters the measurements of the purchase item. In addition, enter the values for the length, width, and height to calculate the volume of the item. Alternatively, you can enter the volume value without entering the length, width, or height. The System automatically calculates the "Volume" if you change one of the other fields-  Beas uses this information for Warehouse – Bin Management – Calculate Volume. Click on "**>>**", if you want to copy this information to the Sales Area. **Attention:** If you try to modify "purchase" or "sales" dimensions by setting any of them to "0", some SAP versions return the following error: `256000267 di-api the unit of length, width, height or weight cannot be set if length, width, height or weight is 0` In this case, you can only modify these values in the standard SAP Item Master Data window.
Net Weight	⊟ Input of the net weight Weight. Enter the weight of the item, followed by the weight measure. Note: This is used as reference weight in Beas bin location management for transactions. If used with weight calculation in bin location management, it should not be changed here.
Factor 1–4	⊟ Input of the quantity, which is a multiple of various factors. If e.g. a fence is

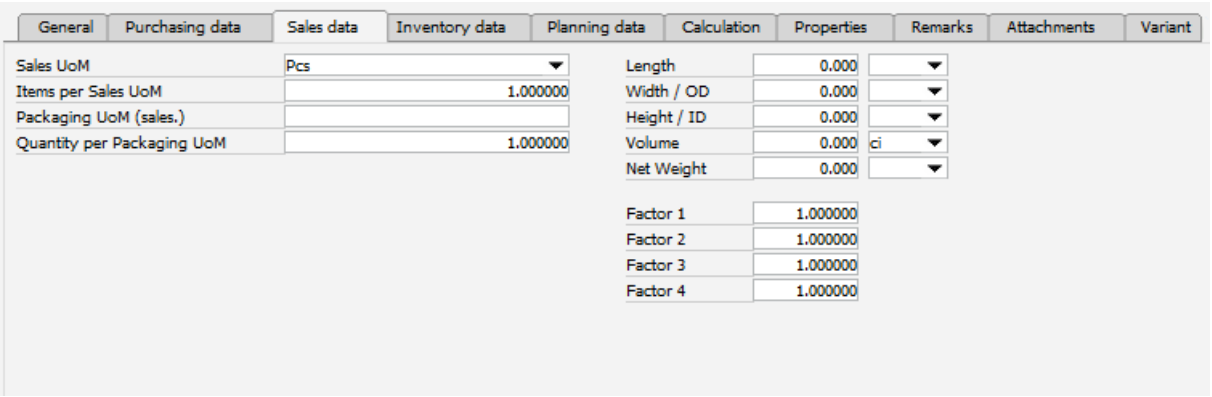
© 2026 Boyum IT Solutions A/S

Field	Description
	purchased, the corresponding default dimensions must be considered. Factors 1–4 Enter the quantity which is a multiple of several factors. For example, if you buy a fence, you have to consider its measurement standards. The Factor fields are used as variables, so you can enter the proper values to calculate the appropriate quantity. The default value is one (1). The values that you enter in the item master data appear on marketing documents. The factor fields are used as variables so that the corresponding values can be entered into these fields for calculation of the relevant quantity. (1) is displayed as a suggested value. The values entered in the item master data are displayed in the documents.

back to item master

7.4.1.4 Sales data

Sales-related information on the items can be added in this tab.

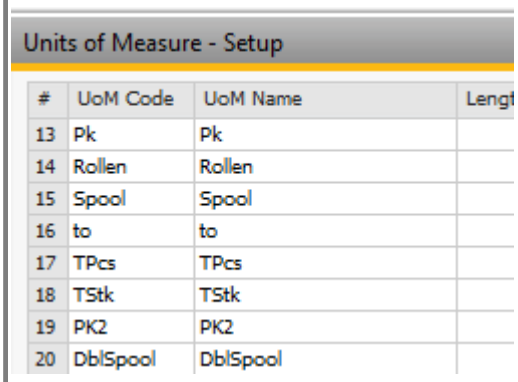
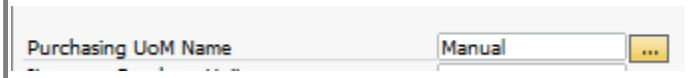
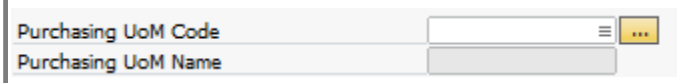


Window artikel_edit.psr

Field Description

Field	Description
Sales UoM	Input of UoM Name SAP Business One standard does not support defined UoM

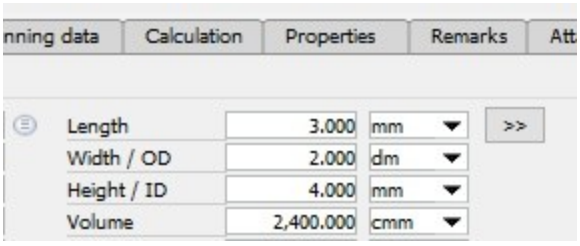
© 2026 Boyum IT Solutions A/S

Field	Description
	Definition in item master Data. The UoM is only a name. With Beas integration, the name is the UoM ID. It must be defined in Unit of Measure Setup. Beas can work correctly only if UoM Code and UoM Name are exactly the same:  The system checks the existence of UoM Code in all UoM name fields. It inserts the correct Code or make the field empty if the UoM Code does not exist.  ***Example:*** If you insert "sp" + TAB, the System inserts "Spool" Use the golden button with three points to choose the UoM from the list. Note: Many Beas functions, especially MRP and Work order can only work properly if the correct UoM is defined. **Working with UoM Group** If a UoM Group is activated, the system displays two UoM fields. Beas always uses Purchasing UoM name and does not support the code. 

Units of Measure - Setup

#	UoM Code	UoM Name	Lengt
13	Pk	Pk	
14	Rollen	Rollen	
15	Spool	Spool	
16	to	to	
17	TPcs	TPcs	
18	TStk	TStk	
19	PK2	PK2	
20	DblSpool	DblSpool	

© 2026 Boyum IT Solutions A/S

Field	Description
	This only works if UoM Code and UoM Name are the same. **UoM Code general** ***See*** Concept of UoM
Items per Sales UoM	Input of item quantity per sales UoM .
Packaging UoM (Sales)	Input of packaging UoM for sales, which is a multiple of the unit of measure.
Qty. per Packaging UoM	Definition of quantity per packaging UoM.
Length, width A/D, height I/D, volume	Dimensions Define Length / Width / Height and Volume for this item related to the Purchase Area (not the Inventory UoM). Enter the dimensions of the purchase item. If you defined the units of measure when you configured the system, enter the measurements and press TAB and the system automatically enters the measurements of the purchase item. In addition, enter the values for the length, width, and height to calculate the volume of the item. Alternatively, you can enter the volume value without entering the length, width, or height. The System automatically calculates the "Volume" if you change one of the other fields-  Beas uses this information for Warehouse – Bin Management – Calculate Volume. Click on "**>>**", if you want to copy this information to the Sales Area. **Attention:** If you try to modify "purchase" or "sales" dimensions by setting any of them to "0", some SAP versions return the following error: `256000267 di-api the unit of length, width, height or weight cannot be set if length, width, height or weight is`

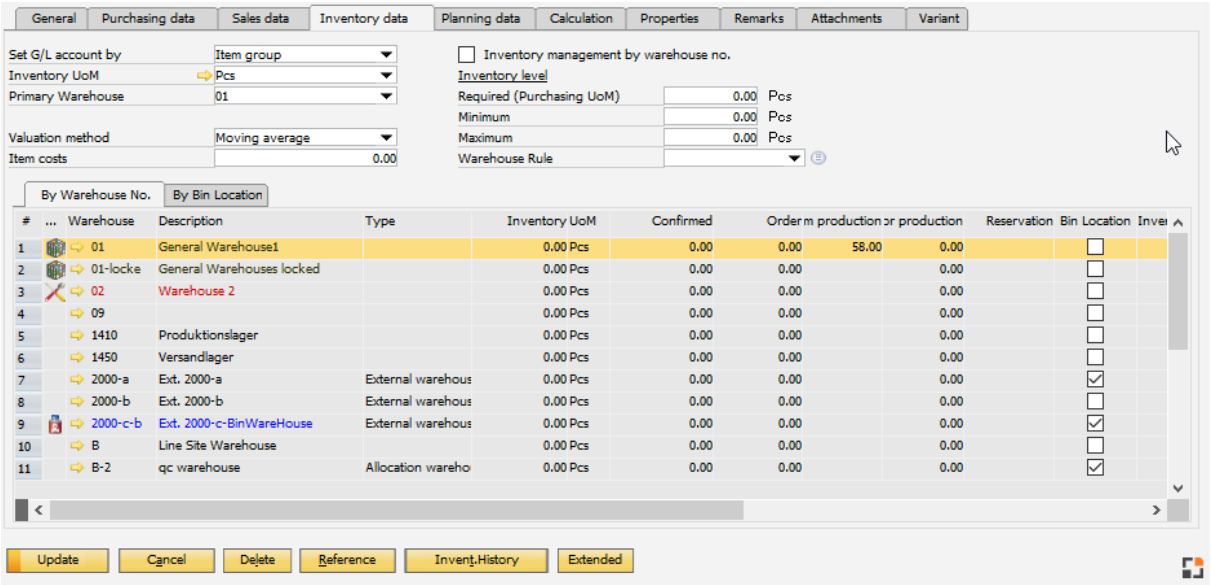
© 2026 Boyum IT Solutions A/S

Field	Description
	0 In this case, you can only modify these values in the standard SAP Item Master Data window.
Net Weight	Input of the net weight.
Factor 1-4	Input of the quantity, which is a multiple of various factors If e.g. a fence is sold, the corresponding default dimensions must be considered. The factor fields are used as variables so that the corresponding values can be entered into these fields for calculation of the relevant quantity. (1) is displayed as a suggested value. The values entered in the item master data are displayed in the documents.

back to item master

7.4.1.5 Inventory data

The warehouse data of the item are entered and displayed on this tab.

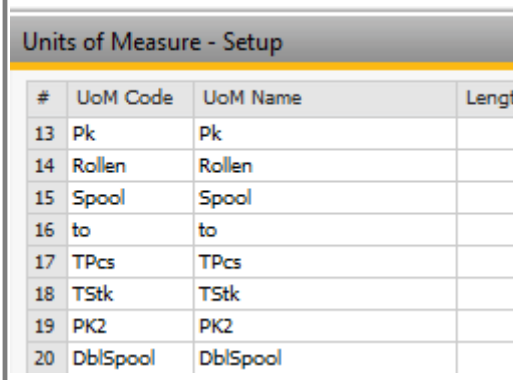
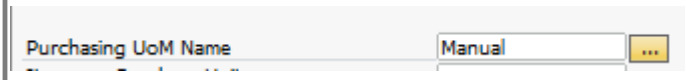


Window artikel_ edit.psr

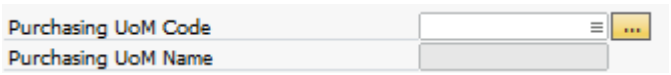
Header details

Field	Description
Set G/L accounts by	Selection of default G/L account method from the available options for the item: • Warehouse - All G/L accounts defined on warehouse level.

© 2026 Boyum IT Solutions A/S

Field	Description
	• Item group - All G/L accounts defined on item group level. • Item level - All G/L accounts defined on item level.
Inventory UoM	Defines the unit of measure of the item when it is stored and inventory is managed, e.g. crate, carton, box. Only visible when "UoM Group" is not set to Manual. If this field is left empty, the field Production UoM will also be empty, and Beas shows no decimals in the Item Structure Report and does not display the Unit of Measure field when this material is included into another item's Bill of Materials. SAP Business One standard does not support defined UoM Definition in item master Data. The UoM is only a name. With Beas integration, the name is the UoM ID. It must be defined in Unit of Measure Setup. Beas can work correctly only if UoM Code and UoM Name are exactly the same:  Units of Measure - Setup | # | UoM Code | UoM Name | Lengt | | 13 | Pk | Pk | | | 14 | Rollen | Rollen | | | 15 | Spool | Spool | | | 16 | to | to | | | 17 | TPcs | TPcs | | | 18 | TStk | TStk | | | 19 | PK2 | PK2 | | | 20 | DblSpool | DblSpool | | The system checks the existence of UoM Code in all UoM name fields. It inserts the correct Code or make the field empty if the UoM Code does not exist.  Purchasing UoM Name Manual ... ***Example:*** If you insert "sp" + TAB, the System inserts "Spool" Use the golden button with three points to choose the UoM from the list.

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: Many Beas functions, especially MRP and Work order can only work properly if the correct UoM is defined. **Working with UoM Group** If a UoM Group is activated, the system displays two UoM fields. Beas always uses Purchasing UoM name and does not support the code.  This only works if UoM Code and UoM Name are the same. **UoM Code general** ***See*** Concept of UoM
Primary warehouse	Warehouse from which postings are done by default. If in **SAP B1 Administration > System initialization > General settings > Inventory: "Auto. add all warehouses to new items**", was disabled, each warehouse will still be selectable from the drop-down, even those that are not defined in the Item Master. They will be added automatically for selection. **Note**: If no standard warehouse is defined, various functions as allocation, backflushing, pre-assignment, reservation, MRP do not work correctly.
Inventory level	Set of fields used to define the inventory level required to be ordered and stored. SAP Business One has three fields for determining the optimal inventory levels, Required (reorder point), Minimum, and Maximum. Fields Required and Minimum are considered by MRP for calculating the purchases recommendation. If you need to define these values by Warehouse you have to do it in the Standard SAP Business One Item Master Data window, inventory tab.
Warehouse rule	A group of warehouse rules can be stored. ***See*** Warehouse rules.
Valuation method	This option is only relevant for continual inventory management.

© 2026 Boyum IT Solutions A/S

Field	Description
	Selection of one of the following options: Moving average Moving average - This method is based on the calculation of the average costs for the item in each purchasing and sales transaction.SAP Business One calculates it automatically in the background. Beas returns this price at pricing, it is always calculated in home currency. Standard Standard pricing allows to select a fixed price which will be used for all transactions. The standard price is stored in Item master / inventory data / item costs. The price can be changed only as long as no journal entries exist. The price is always stored in home currency. As soon a journal entry exists, the standard price can be changed only via **Inventory > Inventory transactions > Inventory revaluation**. FIFO Another continual inventory management system in which the first goods purchased are the first sold or issued without consideration of the current goods movements.The valuation method can only be changed as long as no material has been posted. **Pricing Precalculation:** For Fifo the following formula is used: Total value of all items currently in stock - valued by Fifo : total stock = average value This value is used as default for all calculations and for posting in material and assemblies. For issue Fifo principle applies. If there is no stock, the last purchase price is used as reference. Series / Batches From SAP Business One 9.1 the valuation method "Series / Batches is available. This is a moving average method per series/batch.

© 2026 Boyum IT Solutions A/S

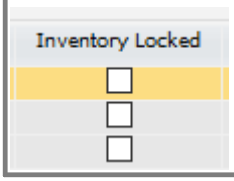
Field	Description
	Pricing Precalculation: The average price of all batches in stock is determined. This value serves as default for all calculations and for posting in material or assemblies. For issue, the average pricing per batch applies. If there is currently no stock, the last purchase price is used as reference.
Item costs	Input of the costs of the item for the default calculation method. The value is updated and calculated for all inventory entries in the Moving Average and FIFO fields.
Inventory Management by Warehouse no.	This option is used to specify the calculation method for minimum and maximum inventory quantities. If the flag is set, the total quantity of the fields Minimum warehouse stock, Req. warehouse stock and Max. warehouse stock is displayed in the warehouse table.
Required (Purchasing UoM)	Input of the required inventory levels for this warehouse. Value deposited in purchasing unit, it is supported in order recommendation report, if no minimal stock was entered. The quantity required to reach to the minimum warehouse stock is displayed in the Required (purchasing UoM) field. If the release of warehouse stock under the minimum limit is selected in the document settings, the system issues warnings if the minimum warehouse stock is not reached. The system does not permit further input of inventory documents if the warehouse stock has reached the maximum quantity.
Minimum	Input of the minimum warehouse stock quantity for this warehouse.
Maximum	Input of the maximum warehouse stock quantity for this warehouse.

Lower tabs - Stock information

Field	Description
By Warehouse No.	Warehouse stock – per warehouse.

© 2026 Boyum IT Solutions A/S

Field	Description
	Display all warehouses for the current item.

Field	Description
Warehouse	Warehouse
Inventory	Total stock of the item including blocked batches.
Unit	Unit of measure
Confirmed	Planned issue for customer orders. No breakdown of sub-components. Calculation according to SAP rules.
Ordered	Planned receipt from purchase orders. Summation according to SAP rules.
Goods receipt from production	All planned receipts are displayed without consideration of any settings (blocked work orders etc).
Goods issue for production	All planned issues are displayed without consideration of any settings (blocked work orders etc). **Important:** all previous postings for this item are considered regardless of which warehouse they were posted from. This works only if the work order was created by Beas without any changes by external programs.
Reserved	For the future reservation system: all reservations are displayed, stock related and planned receipts.
Inventory locked	The warehouse is blocked on item level. It is related to SAP Business One **> Item Master Data > Inventory Data > field Locked.** Locks the warehouse for the item and prevents you from adding the item from this warehouse to any A/R or A/P document. 
Warehouse Type	Type of warehouse. ***See*** Warehouse administration.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Warehouse Locked</td><td>Warehouse is locked. Related to SAP Business One - Warehouse - Field "Inactive".</td></tr>
</table>
</td></tr>
<tr><td>By bin location</td><td>Warehouse stock – per warehouse and bin location
Display every stock by Warehouse, Bin location, Serial- and Batch number and Item Version (I-Version).
Beas and SAP Bin locations are supported. WMS Bin locations are not supported.
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Warehouse</td><td>Warehouse</td></tr>
<tr><td>Range</td><td>Storage Area</td></tr>
<tr><td>Description</td><td>Description of the warehouse area</td></tr>
<tr><td>Bin location</td><td>Bin location</td></tr>
<tr><td>Batch/series</td><td>If batch- or serial number-managed item: the serial number or batch</td></tr>
<tr><td>RFID</td><td>Sub-ID of a batch / series</td></tr>
<tr><td>Inventory</td><td>Current inventory at this bin location with this batch / serial number</td></tr>
</table>
</td></tr>
<tr><td>By Batch</td><td>Batch inventory; only visible for batch-managed items.</td></tr>
<tr><td>By series</td><td>Inventory by serial numbers; – only visible for serial number-managed items.</td></tr>
</table>

back to item master

7.4.1.6 Batch

Only visible for batch-managed items.

Field	Description
Only at Issue	Determines the moment to request a batch number. If this field is checked, Beas only requires a batch number in output documents. Batch number is only output for a posting transaction.

© 2026 Boyum IT Solutions A/S

	Important: If this field is checked, it is not possible to manage BIN Locations for the item. For managing BIN Locations, it is mandatory to provide the batch number in the receipt documents.
Batch determination	Define the batch number Set up batch determination Beas can generate the batch automatically for a receipt transaction. Here you can set up whether the batch is entered manually or generated automatically when posing in material. **Batch according to material**

© 2026 Boyum IT Solutions A/S

If this option is selected, Beas creates the batch of the finished product with the same number as the batch of the last consumed material.

Example:

Example 1

Assembly: "Paste y in container x"

Bill of Materials: Paste y line 10

1. issue: batch aaa
2. issue: batch bbb

If "Paste y in container x" is now produced and posted in, the batch number of "Paste y" of the last posting, that is batch "bbb" is assigned.

Example 2

Assembly: "Paste y in container x"

Bill of Materials:

Line 10, Material A001 (Batch-related)

Line 20, Material A002 (Batch-related)

Last Issue Line 20, A002, Batch aaa

The System uses "aaa" as Batchnumber

Example 3

Last Issue Line 10 - A001, Batch aa1 and Line 20 – A002, Batch aa2

The System uses "aa1", because it is the first position

Temporary sorting issue:

At present the system is using the "BEAS_FTSTL"."POS_ID" as sorting, not the correct Sorting field "SortId".

If you change the order inside the BoM, the program may not work properly. We are planning to fix this in Beas 9.3 PL 2 HF 1

Example: Booking according to material

© 2026 Boyum IT Solutions A/S

	Automatic batch determination Batches are generated automatically. Beas creates a batch number for the item based on the parameter in the Configuration wizard. **Enter batch manually** If activated, manual batch input is always performed for this item. **Attention**: Manual input is not supported at receipt creation by WEB Service. **Selection:** Manually – (*oitm.u_batchroh=M or NULL*) = Default Automatic – (*oitm.u_batchroh=N*) Batch according to material (only batches) – (*oitm.u_batchroh=J*) ***see*** Batch generation Configuration wizard – Materials management – Batch administration Configuration wizard – Goods receipt – Batches Production – Valuation and posting of the assembly – Batch administration Materials management – Manual postings – Batches
Shelf Life in Days	Defines the number of calendar days that are added to the items production date for calculating its expiration date. If a receipt is performed via Production or a Quality Control, release is performed, the shelf life date is reset from release. If the Manufacturing date is blank, the current date is used for calculation. If a manufacturing date is entered in the any receipt window, the date of expiry is calculated automatically (calendar days of shelf life are added to manufacturing date). ***see*** Batches to be verified

© 2026 Boyum IT Solutions A/S

7.4.1.7 Serials

Only visible for serial number related items.

Field	Description
Serial number	Set up determination of serial number. Automatic determination of serial number. Serial number is generated automatically at **Goods receipt** and **Production > Post in assembly** and in other functions. This is necessary, if working with automatic serial number reservation. ***See*** Serial number reservation For automatic generation the generation template needs to be defined in Configuration wizard. ***See*** Configuration wizard - Serial numbers Configuration wizard - goods receipt (*oitm.u_batchroh='N'*) Manual entry of serial number Serial numbers are defined manually. Automatic serial number reservation is not possible. (*oitm.u_batchroh='N'*) Default: manually (*oitm.u_batchroh='M' or NULL*) ***See*** Goods Receipt – Quantity Configuration wizard – Serial number reservation Batch generation
Shelf Life in Days	Defines the amount of days that are added to the items production date for calculating its expiration date.

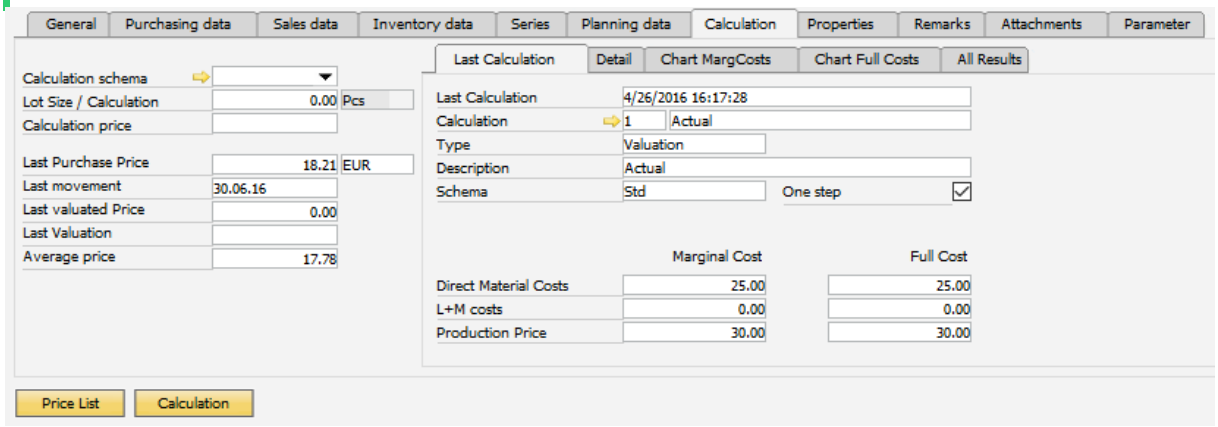
© 2026 Boyum IT Solutions A/S

	If a receipt is performed via Production or a quality control release is performed, the shelf life date is reset from release. Counted from production date - if empty, it is counted from today. If a manufacturing date is entered in the Goods receipt window, the date of expiry is calculated automatically. (calendar days of shelf life are added to manufacturing date).

7.4.1.8 Calculation

Data for Precalculation can be stored in this tab.

PATH: Inventory > Item structure/Item report > Double-click an item > Item master data for XXX > Master Data tab > "Calculation" tab.



Window artikel_edit.psr

Field Description

Field	Description
Calculation Schema	Default – Calculation schema. Defines which calculation schema to be used for Precalculation and work order valuation. Work order creation: If Calculation schema is defined in the Configuration wizard the Beas ignores the setting in Item Master data. If no Calculation schema is defined in the Item Master Data and Configuration Wizard, Beas uses Schema "Std". ***See*** Configuration wizard

© 2026 Boyum IT Solutions A/S

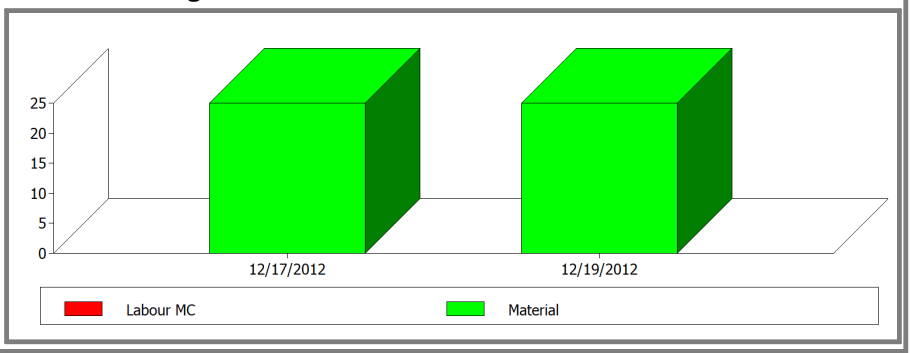
Field	Description
	Calculation schema.
Lot Size/Calculation	Predefined calculation lot size in warehouse units. Define a batch size for calculations. Pre-calculations can be executed using predefined batch sizes. Batch Calculation always uses the Lot size defined in this field. The Unit of measure is displayed. This can be defined per Inventory or Production UoM ***See*** Concept Lot size
Calculation price	Manually include a price to be used as reference for postings and calculations. However, after running a Batch Calculation process, Beas updates this field with the actual calculation value. The Unit of measure is displayed right of the field. ***See*** Edit batch-calculation – fill calculation price
Last purchase price	Last purchase price on the last receipt price incl. currency (determined from SAP Business One).
Last movement	The date of the last stock transaction for the item. This field cannot be changed.
Last valuated price	Last Determined Price using the function **SAP Business One > Warehouse Management > Inventory Reports > Inventory Valuation Report**. This has nothing to do with **Item valuation via Calculation > Batch Calculation** .
Last valuation	The date of the last execution of the **SAP Business One > Warehouse Management > Inventory Reports > Inventory Valuation Report**. This field cannot be changed.
Average Price	The current average valuation price determined by SAP Business One. This field cannot be changed. Only if price valuation is not by warehouse.

More functions

Button	Description
Price List	Editing the price list directly – item-related. ***see*** Price list button.
Calculation	Running the calculation view directly for this item. ***see*** Calculation button.

© 2026 Boyum IT Solutions A/S

If a batch Precalculation was performed, further tabs are displayed:

Tab	Description
Last calculation	Result of last batch calculation.
Detail	This tab displays detailed results of the last Batch Calculation, showing the Calculation Schema lines. Only available after executing a Batch Calculation process.
Chart of MargCosts	This tab displays a graph with the history of Batch Calculations, showing the representativeness of direct material and marginal production costs over the calculation prices. Only available after executing a Batch Calculation process. ***See*** image in toggle below: Chart MargCosts 
Chart Full costs	This tab displays a graph with the history of Batch Calculations, showing the representation of direct material and full production costs over the calculation prices. Only available after executing a Batch Calculation process.
All Results	List of all Batch Calculations executed for the item. Only available after executing a Batch Calculation.

In case of a purchased item, this tab is only displayed if Calculation of Purchased Items is activated in **Configuration wizard > Calculation > Precalculation**.

Last calculation tab

Information on the last batch calculation is displayed in this tab>

Field	Description
Last calculation	Date and time of the last calculation.
Calculation	Number and name of the batch calculation incl. call-up option.
Type	Type of calculation (simulation, valuation, etc.).
Description	Description of the calculation.
Schema	Schema used in the batch calculation.

© 2026 Boyum IT Solutions A/S

Field	Description
One step:	If activated, a single-level calculation was performed.
Direct Material Costs	Material costs at marginal and full costs without surcharges.
L + M costs	Manufacturing costs at marginal and full costs without surcharges.
Production Price	Total of material and production costs without surcharges.

Using **Beas > Calculation > Batch Calculation** a calculation can be defined the result of which is displayed here in the item calculation view.
Follow this procedure:
1. Set up batch calculation.
2. Activate "Item view" setting.
3. Run the calculation.
From the first time the calculation is run the result is available in this view.

back to item master

7.4.1.8.1 Price List button

Beas has an item-related price list view but conforms to the price lists and special price of SAP.
Beas does not support price lists dependent on other price lists.
The Beas Price list is a parallel function to SAP Business One-price lists. Extended price lists **cannot** be edited here.

NOTE: Due to conversion, rounding differences may arise.
Window settings and templates are supported.To edit, item editing rights are required.

The price list displayed is not based on Unit Groups or other definitions.

Field Description

Field	Description
Price List	Name of price list.
Origin price list	Reference or basic price list. Not supported by Beas. **Warning:** Not every scenario is permitted in SAP either.
Price	Price as per price list.
Currency	Currency.

© 2026 Boyum IT Solutions A/S

Manual	Price is maintained manually (no dependency on other price lists).

Price input is deactivated by default and can be activated using window settings.

Price Time Discounts button

Extended provides access to the extended price list, which is structured on two levels:

1. Time discounts – Price
2. Within the valuation period of the time discount, the quantity discounts

see: **SAP > Manage Time and Quantity Discounts**

The extension can only be called if the price was specified in the price list.

Time discounts

The time range, discount and price in Inventory UoM are displayed here by default.

Input / change options can be activated using the window settings. Templates are supported.

The price can also be input in purchasing and sales UoM.

As SAP does not support these units, Beas uses the units of conversion here, i.e. if the price is changed in sales UoM, the price is actually converted into Inventory UoM.

Field	Description
Item	Time discount for items.
Customer	Special price list for customer (here, always * followed by the price list number. This cannot be changed here.
Price list no.	Number of the price list.
Line no.	Line number time discount.
From date	Validity period.
To Date	Validity period.
Discount	Discount in % in relation to the price as per price list (automatically calculated if the price is entered.
Price	Price for this time range in Inventory UoM.
Currency	Currency of the price.
Sales Price	Price in sales UoM. If changed, the price per Inventory UoM and price per purchasing UoM is calculated automatically.

© 2026 Boyum IT Solutions A/S

Sales UoM	Display of sales UoM incl. conversion factor and currency (e.g.: EUR per 5000 Pcs.)
Unit	Sales UoM.
Factor	Sales UoM – Inventory UoM conversion factor.
Purchase Price	Price in purchase UoM. If changed, the price per Inventory UoM and price per purchasing UoM is calculated automatically.
Unit	Purchasing UoM.
Factor	Purchasing UoM – Inventory UoM conversion factor.
Default price	Price in price list.

Quantity discounts

Quantity discounts can be stored for a time discount range.

Field	Description
Item	Time discount for items.
Customer	Special price list for customer (here, always * followed by the price list number. This cannot be changed here.
Price list no.	Number of the price list.
Line no.	Line number time discount.
From date	Validity period.
To Date	Validity period.
Scale	Price valid from quantity (in Inventory UoM).
Discount	Discount in % in relation to the price as per price list (automatically calculated if the price is entered).
Price	Price for this time range in Inventory UoM.
Currency	Currency of the price.
Scale - sales	Price for this time range in sales UoM.
Sales Price	Price in sales UoM. If changed, the price per Inventory UoM and price per purchasing UoM is calculated automatically.
Sales UoM	Display of sales UoM incl. conversion factor and currency (e.g.: EUR per 5000 Pcs.)
Unit	Sales UoM.
Factor	Sales UoM – Inventory UoM conversion factor.

© 2026 Boyum IT Solutions A/S

Scale - purchase	Price for this time range in purchasing UoM.
Purchase Price	Price in purchasing UoM. If changed, the price per Inventory UoM and price per purchasing UoM is calculated automatically.
Unit	Purchasing UoM.
Factor	Purchasing UoM – Inventory UoM conversion factor.
Default price	Price in price list.

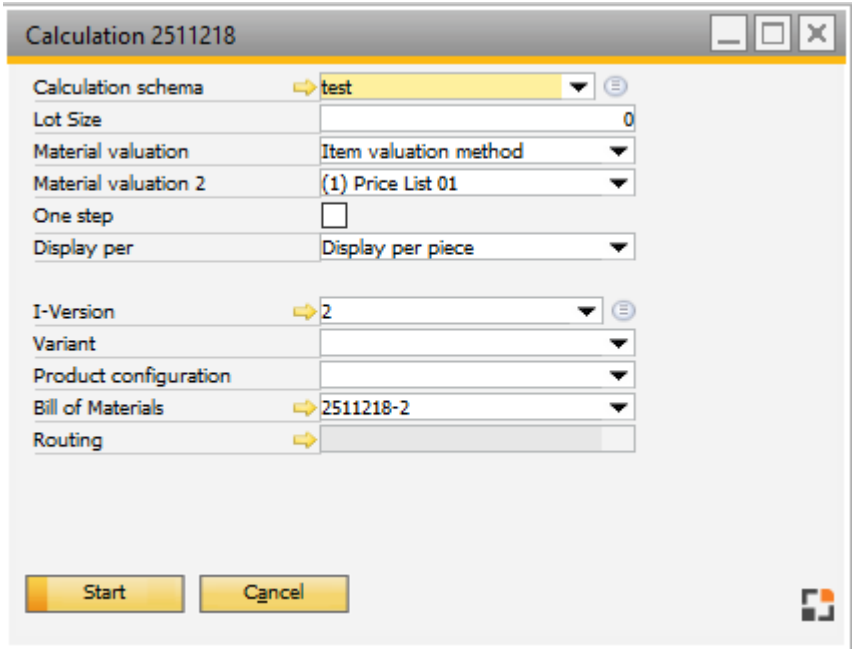
back to calculation tab

7.4.1.8.2 Calculation button

The button calls the Precalculation for the item. This calculation is only for display and cannot be saved.
In the first window you can define all parameters for the precalculation.
With the button "**Start**" Beas opens the precalculation window.

PATH: Inventory > Item structure/Item report > Double-click an item > Item master data for XXX > "Calculation" tab > "**Calculation**" button.

An intermediate window opens where you can configure further parameters. Use the icon to open the Schema Detail window.



Window pk_new.psr

© 2026 Boyum IT Solutions A/S

Field Description

Field	Description
Calculation schema	Defines which Calculation schema to use to calculate this item. ***See*** Calculation Schema.
Lot Size	You can define the Lot size in Production or Inventory UoM. Default is Production UoM.
Material Valuation Material Valuation 2	Determine the source for the direct material costs. Material Valuation 2 determines the source for the direct material costs in case any of the direct material costs is not found in the source set in Material Valuation. This setting has no effect on **External operation > Valuation of services.** The default schema is defined in the Configuration Wizard. ***See*** Setup wizard – Calculation – Costing analysis and Pricing types.
One step	If activated, only a single-level of Precalculation is performed, that is, sub-assemblies are not further broken down. If not selected, the complete BoM structure is broken down. Sub-assemblies are valued according to the selected method.
Display per	Determines how to display the results: • Display per piece (or unit) shows the calculated values for one piece. • Display per lot size (corresponds to calculation lot size) shows the calculated values for the amount of pieces set in the Lot size field. • Display per .. (factor can be entered manually) shows a new field to set the quantity of pieces for which to display the calculated values. You can define "Lot size" and "Display per" with decimal places.
I-Version	Select a specific item version for running the calculation process. This field is used to determine the BoM and routing to be used. ***See*** Item master – I-Version Item version control
Variant	Select a specific variant for running the calculation process. Up to 26 variants can be stored per item.
Product configuration	Select a specific product configuration for running the calculation process.

© 2026 Boyum IT Solutions A/S

Field	Description
Bill of Materials	The BoM to be used for the breakdown. The BoM to be used for the breakdown of the assembly can be selected in this field. It is stored in the item or item version. This fields is only visible if Item version control was activated.
Routing	Routing to be used for the breakdown. The Routing to be used for breakdown of the assembly can be selected in this field. It is stored in the item or item version. This fields is only visible if Item version control was activated. This field can be edited only when creating a new calculation and and the Routing directly selectable option is enabled.

See

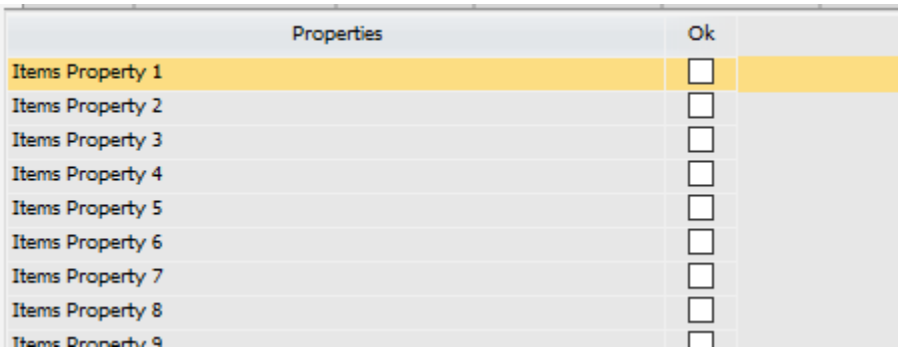
Precalculation

Item Master – calculation tab

7.4.1.9 Properties

Use the Properties tab to assign individual features to the displayed item.

Up to 60 characteristics can be activated in SAP Business One for items.
The individual characteristics can be activated or disabled in this tab.



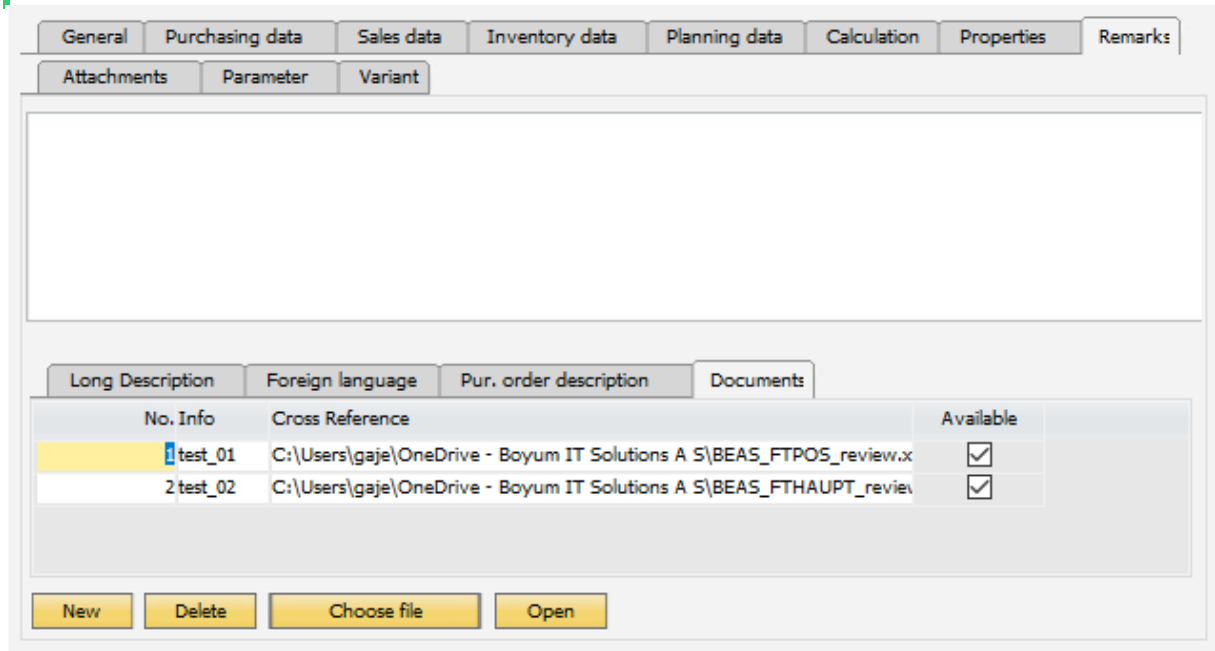
back to item master

7.4.1.10 Remarks

In this tab you can add further, descriptive information to an item. Enter long description, information in a foreign language also in RTF format, or attach documents.

© 2026 Boyum IT Solutions A/S

PATH: Inventory > Item structure/Item report > Double-click an item > Item master data for XXX > Master Data tab > "Remarks" tab.



Window artikel_edit.psr

Tab descriptions

Tab	Description
Long Description	A long description of the item, which can also be entered in RTF format (**Configuration Wizard > Master Data > Item > Use of RTF input fields**). This text can also be printed on sales documents. Extended information relating only to the rich text entry objects is only active as long the text is edited; it is not saved. **Important**: SAP Business One cannot read RTF format. If long description is entered in RTF format, it can only be displayed in Beas layouts and documents.
Foreign language	Long description for foreign languages. Can also be printed on sales documents in the case of a foreign language. Input in RTF format is also possible here.
Pur. order description	Long description for output on order forms, which can also be entered in RTF format (**Configuration Wizard > Master Data > Item > Use of RTF input fields**).
Attachments tab	⊟ Three documents or images can be stored. The pictures/documents stored here are available in the FDC terminal.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Tab</th><th>Description</th></tr>
<tr><td></td><td>The last used folder is opened. This is saved per window and workstation.
Use the Pre-view window to view the first attachment.
Important: In order for every SAP user to have access to the attachments, it is necessary to place the attachments in a shared folder and give the users rights to access the folder. Beas only creates a link to the attached file.</td></tr>
<tr><td>Documents</td><td>Any number of documents can be stored. The reference to the document (directory, document name) is stored, not the document.

If a document was added here, it can be called from from different windows e.g. logon order (after WO selection), Pool list – logon work order or via app "Display documents".
Details
Beas supports two kinds of documents:
- Documents stored in SAP Business One (only view)
- Documents stored in Beas You can add new documents, add remarks – these documents are not visible in SAP Business One
Important: the documents must be in a released network directory.

Note: Attachments saved in the SAP Business One screen are displayed in the Beas window (extended master data). They can be opened, but not renamed or deleted. Files attached in the Beas window are not displayed in the SAP Business One window.

Sorting and filtering by cross reference is available.

Field and button descriptions
Fields<table><tr><th>Field</th><th>Description</th></tr><tr><td>No.</td><td>A unique serial number is assigned to the document. The field is editable.</td></tr></table></td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Tab	Description

Field	Description
	Behavior When you add a new line, the numbering continues from the highest value. ***Example:*** You have 5 documents in line 1–5. If you change line No. "2" value to "53", the value of the next added line will be "54".
Info	Free, editable field to provide further, short information on the linked document.
Cross Reference	File path - Directory and file name - of the linked document.
Available	Radio box for information: - **Active**: Reference is valid, the file is available. - **Inactive**: Reference is invalid, document was not found or there is no access right to the specified directory.

Available buttons

Button	Description
New	The button opens a new line where you can attach a new document reference to the item. For behavior, ***see*** field "No." above.
Delete	Remove linked document from the list.

© 2026 Boyum IT Solutions A/S

Tab	Description
	<table><tr><th>Button</th><th>Description</th></tr><tr><td>Choose file</td><td>Select a document to link to the item from a released network directory.</td></tr><tr><td>Open</td><td>Open selected document to view.</td></tr></table>

back to item master

7.4.1.11 Parameter

The Parameter tab is only available if enabled in the **Configuration wizard > Master data > Item > Display > Item master > Manage parameters**.

Parameters are used to include additional information for the items. The product can be described in further detail using user-definable parameters. The information can be used in reports or in customizations for variant production. For example, parameters can include nutrition information for food items, or alloy percentage composition for metals. When creating a Work Order document for an item that contains parameters, all parameters are copied into the work order.

Variant production can access these parameters directly and use them as a reference for breaking down formulas and tables.

Field	Description
SortID	Used to sort the parameters
Parameter	Name of the parameter
Contents	Value of the parameter
UDF 1...4	Up to 4 UDF can be set up Note: UDF's set here are not copied into the UDF fields of the **Work Order Position > Parameter** tab.

Button	Description
New	Create a new parameter

© 2026 Boyum IT Solutions A/S

Button	Description
Delete	Delete the selected parameter
Delete: All	Delete all parameters for this item
Copy: from	Copy all parameters from a selected item to the current one
Window settings	Open window settings for the parameter list

back to item master

7.4.1.12 Variant

This tab is used to create a simple and limited version control for the items. Up to 26 variants can be defined for the item. This type of variant is easy to define and can be implemented simply and quickly.

- Only available if enabled in the **Configuration wizard > Master data > Item > Variant > Variants per Item**.

The variant system is fully supported by MRP, calculation and production, and can also be combined with variant production and the product configurator.

see Variants

back to item master

7.4.1.13 Report "used in"

PATH: Item master > right-click menu > list "Used in".

In two, respective tabs, this window gives an overview of which Bill of Materials and Documents the item is used in.

Field	Description
Item	Name of the Item made up of the selected Item/assembly.
I-Version	Version number.
Description	Item description.
Drawing number	Drawing number
Cross Reference	The current item used in the item/assembly mentioned in the first row.
Item group	The item group where the item is classified.
Active	Item active.
Release	Select check mark for Release production.

© 2026 Boyum IT Solutions A/S

Window artikel_revisionnumbercontrol.psr

7.4.1.14 Item version

Item version controls different versions of finished goods or sub-assemblies and helps in the phase-in or out phase-out of components.
Version control in Beas is visible in the item structure on all levels. Grayed-out materials are phase-in materials that are used for production from a specific date. Phase-out and phase-in materials are taken into account in the specific version controlled BoM (based on validity dates) and MRP is calculated accordingly.
Dedicated alert procedures can be set up in SAP Business One in order to warn procurement personnel of issued purchase orders with phase-out materials.

Example of the item version structure

Window artikel_struktur_browse.psr

Item versions (I-Version) can be stored in an item. All entries for an item are displayed in the item version list. Item versions can be edited, and documents can be stored for them.
Window settings and templates are supported.

As soon as a version entry is stored, the item administration and the release management is activated for the item. Only those version numbers are allowed to be used for the item that have been stored in the item.
For more information on management methods of item version control, ***see*** Item master, Configuration wizard.

- Notes on item version control

© 2026 Boyum IT Solutions A/S

- Inventory management by item version is only possible for batch or serial number-related items.
- The order recommendation list cannot create a balance per item version, because order recommendations are calculated per item.
- The active version in indicated in the I-Version field of the item master data, which is used as default for the work order and order recommendation, if no other version was indicated elsewhere (e.g. in sales order).
- Item version control is not supported in all areas, for example it is not available in Web Apps or Alternative Item.

Realese management

Functions

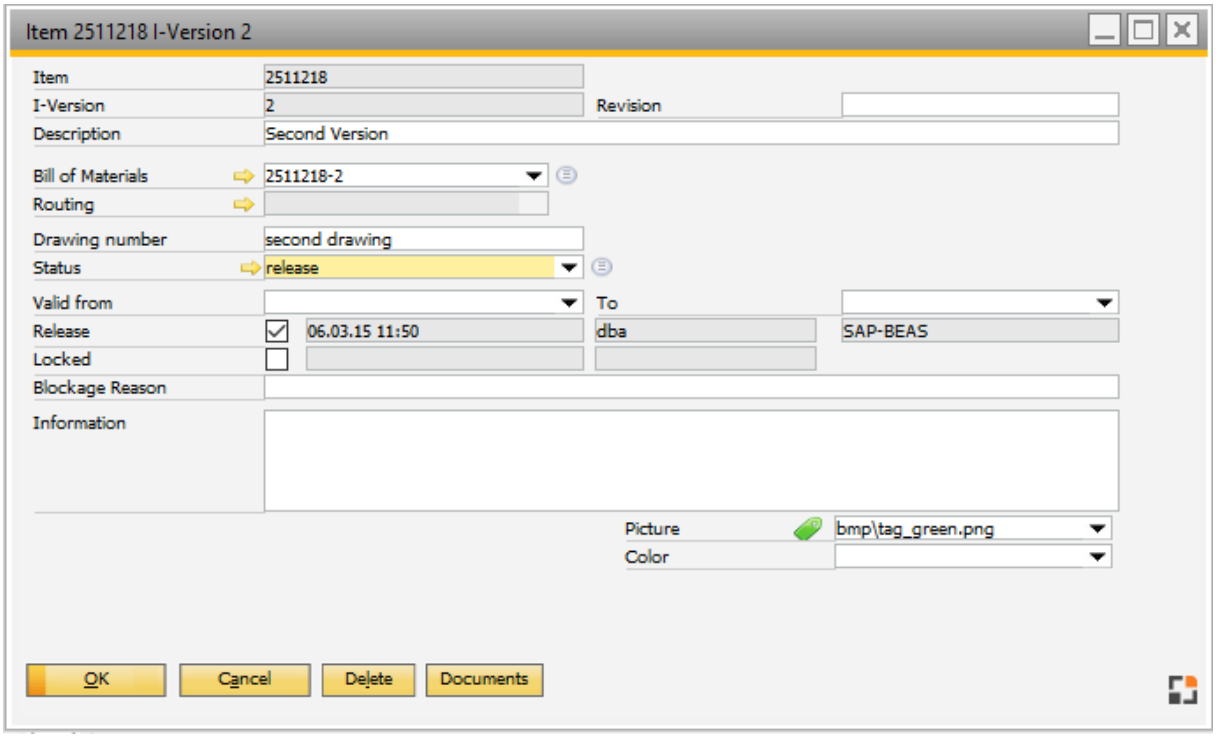
Function	Description
Open	Open the details window for an item version.
Add	Create a new item version.
Remove	Delete entry.
Duplicate	Duplicate the entry and create a new one with the following number. Function available only if you work with continuous numbering. (right-click and button) When using this function, the new duplicate appears in the top of the list in this window.
Documents	Open the documents window to store documents per item version.

7.4.1.14.1 Edit I-version

PATH: Item master data for XXX > Master data tab > header: double-click "I-Version" .

Enter or edit the details of an item version (I-version):

© 2026 Boyum IT Solutions A/S



Window artikel_ version_ edit.psr

Field	Description
Item	Item ID.
I-Version	Item version (I-Version, alphanumeric, 20 characters). This is assigned automatically. The configuration of the number template can be edited in the Configuration wizard.
Description	Version description . Displayed in most lists instead of the item description.
Drawing number	Drawing number of the item version. If this field is filled, in most lists, in work order and calculation the drawing number of the version is displayed instead of the item drawing number.
Status	Select a status for this entry. See the details of statuses and create new statuses by clicking on the selection icon on the right of the field. All release properties of the item version can be defined in the status. Default settings for creating and copying a status can be defined in the Configuration wizard. **Note**: In case a status is defined, the item version is no longer changeable. The same applies for the stored BoM and routing.

© 2026 Boyum IT Solutions A/S

BoM	Assigned BoM. This field is only visible if the *Separate Bill of Materials* option is selected in item master data. Administration field. If no BoM is stored, the BoM with the same ID as the item number is used.
Routing	The routing used for this version. This field is only visible if the *Separate Bill of Materials* option is selected in item master data Administration field. This field is not editable. You can define the routing plan in the Bill of Materials Header.
Valid from/to	Validity period of the item version. This is information only and doe not provide functionality.
Release	Release I-Version If this flag is set, the name, time and work station name are saved. The default release ID in can be set in the Configuration wizard. The release behavior can be defined in Status. This release ID can also be set in the status. **Note**: If at least one status setting exists, that controls the release ID or blocking ID, it can no longer be changed manually.
Locked	Block I-Version If this flag is set, the name, time and work station name are saved. Blocked I-versions are not displayed in selection lists and in the item structure. Manual entry of this item is still possible. Further behavior can be defined in the Status. The ID can also be set in the status. **Note**: If at least one status setting exists, that controls the release ID or blocking ID, it can no longer be changed manually.
Blockage reason	Enter a blockage reason manually.
Information	Free text field.
Picture	Icon to mark this I-version.
Color	Display color of the I-version.

Documents: The button opens the list of linked documents.

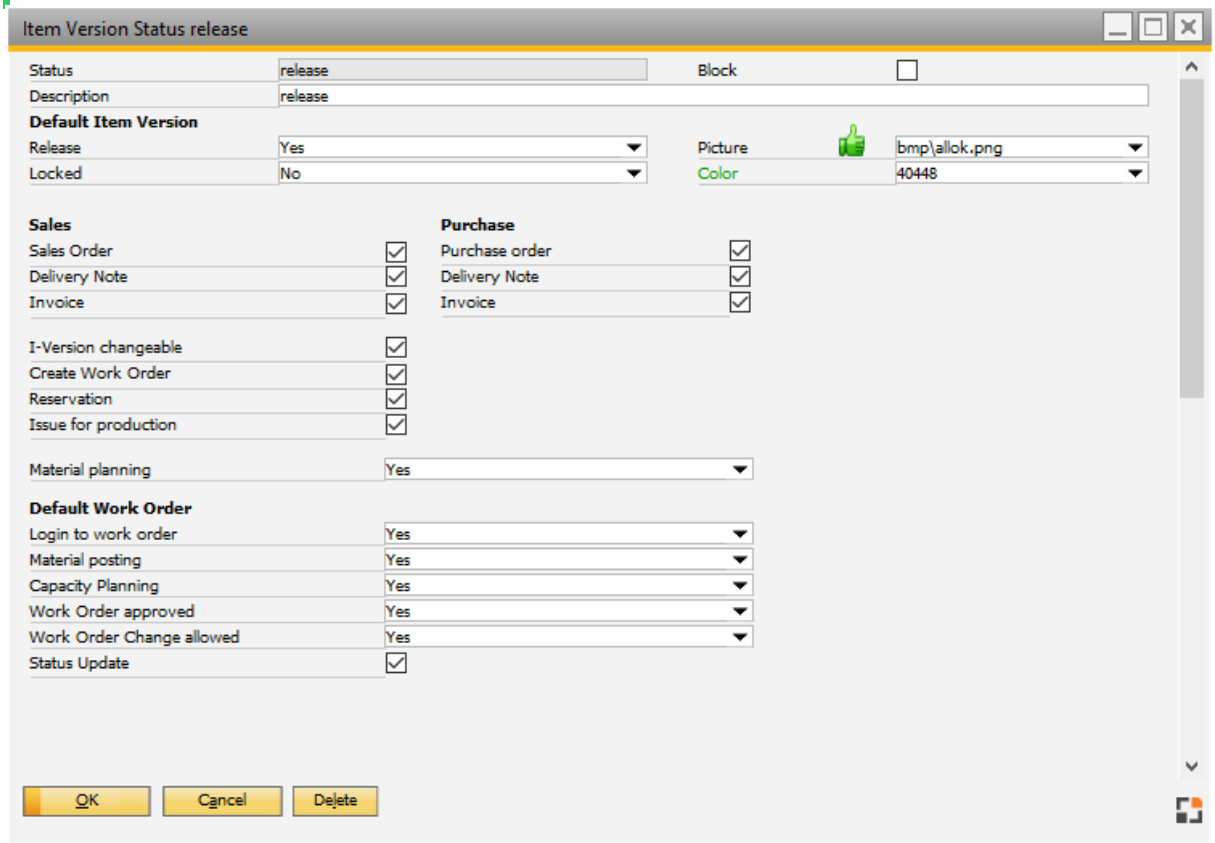
© 2026 Boyum IT Solutions A/S

7.4.1.14.1.1 Item version - Status

Item version – Status - Release management

The release administration on item version level occurs in the status administration.
Use the status administration to manage releases on item level. It can be defined whether the Bill of materials, routings and work orders can be changed.

PATH: Item master data for XXX > Master data tab > header: double-click "I-Version" > double-click "Status" .



Window artikel_version_status_edit.psr

The list can be customized using window settings and templates. The authorization to Item version – Status is necessary in order to edit the settings.

Field	Description
Status	Unique identifier. This should be a descriptive name.
Description	Long description of the status.
Block	Blocks the selection of this entry.

© 2026 Boyum IT Solutions A/S

	If the status is in use, this can no longer be changed.
Release	Defines whether the item version should be released when this status is used. **Yes / No / None change** are selectable.
Locked	Defines whether the item version should be blocked when this status is used. **Yes / No / None change** are selectable.
Sales, sales order, delivery note, invoice	Defines if a sales order, a delivery note or an invoice may be created for this item version.
Purchase order, delivery note, invoice	Defines if a purchase order, a delivery note or an invoice may be created for this item version.
I-Version changeable	Definition of the item version may be changed If this option is deactivated, the stored routing cannot be changed. But the fields in the item version are still changeable.
Create work order	Defines if a work order may be created for this item version If this option is enabled, a work order can be created for this item version, depending on "Release not check" and "Release I-Version" parameters. If this option is disabled, then the work order cannot be created manually. When creating the work order through an automated process (MRP, Data Integration Hub, BeasScript) the work order is created, but in a blocked status. The blocking can be avoided by using Production types e.g. for a sample production.
Reservation	Defines whether the item version may be reserved for a sales order or work order.
Issue work order	Defines whether if the item version may be issued for a work order.
Material planning	Defines whether the item version is to be considered in material planning. If a work order has already been created, this option affects the same option in the work order position. ***See*** Update Status. **Yes/No/None change** are selectable.

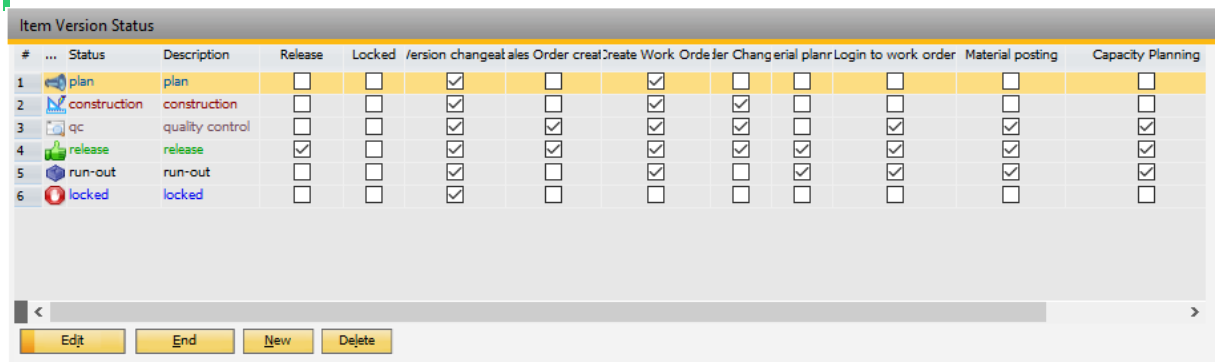
Default work order

Define which options are transferred to the work order position, after a work order was created.

© 2026 Boyum IT Solutions A/S

Login to work order	Defines whether order time receipts may be created for this item version. This option affects the same option in the work order position. ***See*** Update Status. **Yes/No/None change** are selectable.
Material posting	Defines whether material postings may be created for this item version. This option affects the same option in the work order position. ***See*** Update Status. **Yes/No/None change** are selectable.
Capacity planning	Defines whether the item version is to be considered in capacity planning (APS). This option affects the same option in the work order position. ***See*** Update Status. **Yes/No/None change** are selectable.
Work order approved	Defines whether for this item version the work order position may be approved. This option affects the same option in the work order position. ***See*** Update Status. **Yes/No/None change** are selectable.
Work order Change allowed	Defines whether for this item version, changes may be executed in the work order. This option affects the same option in the work order position. ***See*** Update Status. **Yes/No/None change** are selectable.
Status Update	If this is active, the above mentioned options are updated immediately in all work order positions where this item version is stored, as soon as this status is selected.

PATH: Item master data for XXX > Master data tab > header: double-click "I-Version" > double-click "Status".



Window: artikel_version_status_edit, artikel_version_status_browse

beas 9.1 PL: 08

Note: An automated change of item version status can be controlled by BeasScript. For example, if after creating a new version, the old one is set to inactive automatically.

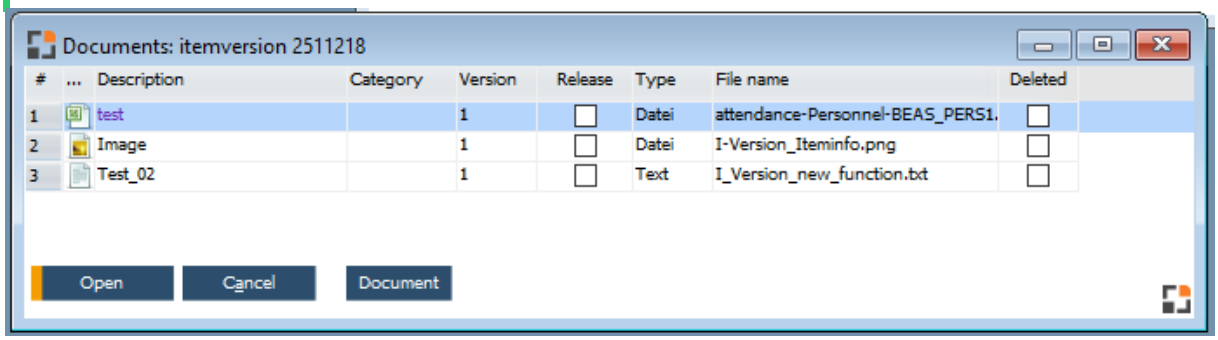
See BeasScript documentation.

© 2026 Boyum IT Solutions A/S

7.4.1.14.2 Documents

This window provides a list of documents linked to an Item Version.

PATH: Item master data for XXX > Master data tab > header: double-click "I-Version" > Documents button.



Window documents_browse.psr

Field descriptions

Field	Description
...	Icon of the document
Description	Free short text to describe the document
Category	
Version	Version number
Release	Check box indicating released version
Type	Data or text
File name	File name of the document
Deleted	Check box indicating if the file has been removed/deleted from the accessed folder.

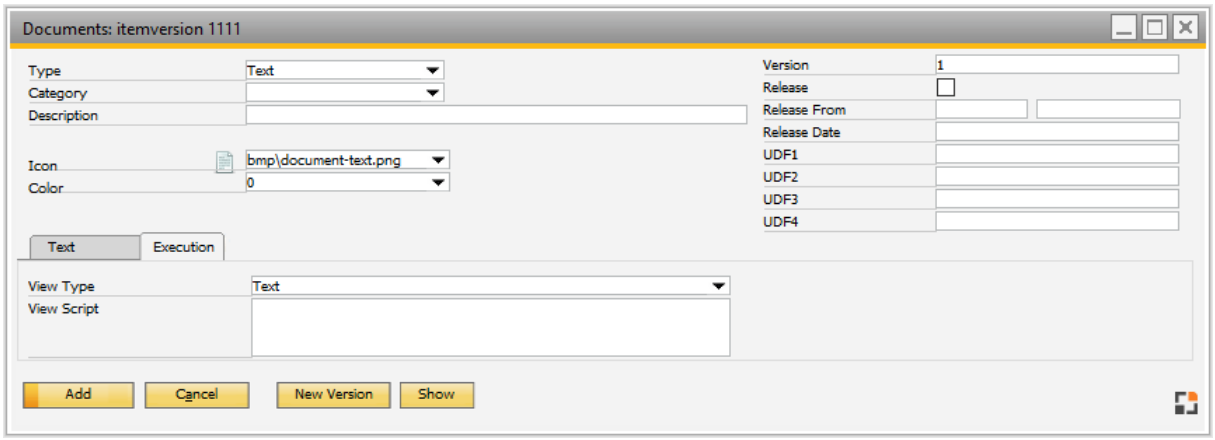
Open: Open the editing window of the linked document.
Add: Attach a document in the opening window. Available from the right-click menu.
Document: Open the system_textedit window to store a text.

7.4.1.14.2.1 Edit documents

In this window you can describe/edit and attach a document to an Item Version.

PATH: Item master data for XXX > Master data tab > header: double-click "I-Version" > **Documents** button > **Open/Add**.

© 2026 Boyum IT Solutions A/S



Window documents_ browse.psr

Field descriptions

Field	Description
Type	Text or file.
Description	Free short text to describe the document
Category	Add a category to the document and click OK - it can be selected from the dropdown at later use.
Version	Version number
Release	Activate check box to release version
Released by	
Release Date	The date when the release was done.
File	Browse the file to attach
UDF1–4	User-defined fields
Execution tab	
View Type	- Shell: The file can be viewed using the program associated with it as default in the system (similar to double-clicking in a file browser). - Text: The system opens an internal window to show the text file. - Bitmap Viewer: The system opens the image with a bitmap viewer. - Script: execute this as a BeasScript file.
View Script	When Script view type is selected, this field displays the actual script.
File name	File name
Text tab	You add further text in this tab.

© 2026 Boyum IT Solutions A/S

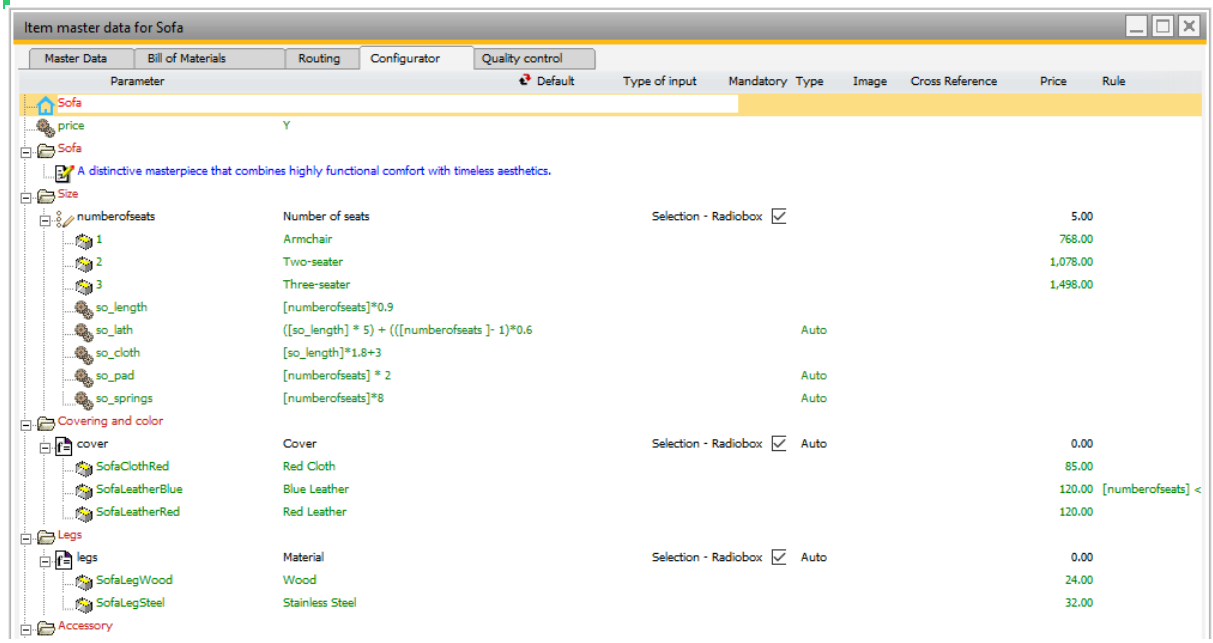
New Version: A pop-up window is displayed prompting: *'Do you want to create a new version?'*. If you click yes, another version of the document is stored for this version.
Show: Open the system_textedit window to store a text or open the file based on the "View Type" setting (***see*** field description above).

7.4.2 Configurator tab

The configuration of an item can be defined here.

Note: The tab is only visible if the module "Product configurator" was activated in the license window and the user has a valid license.

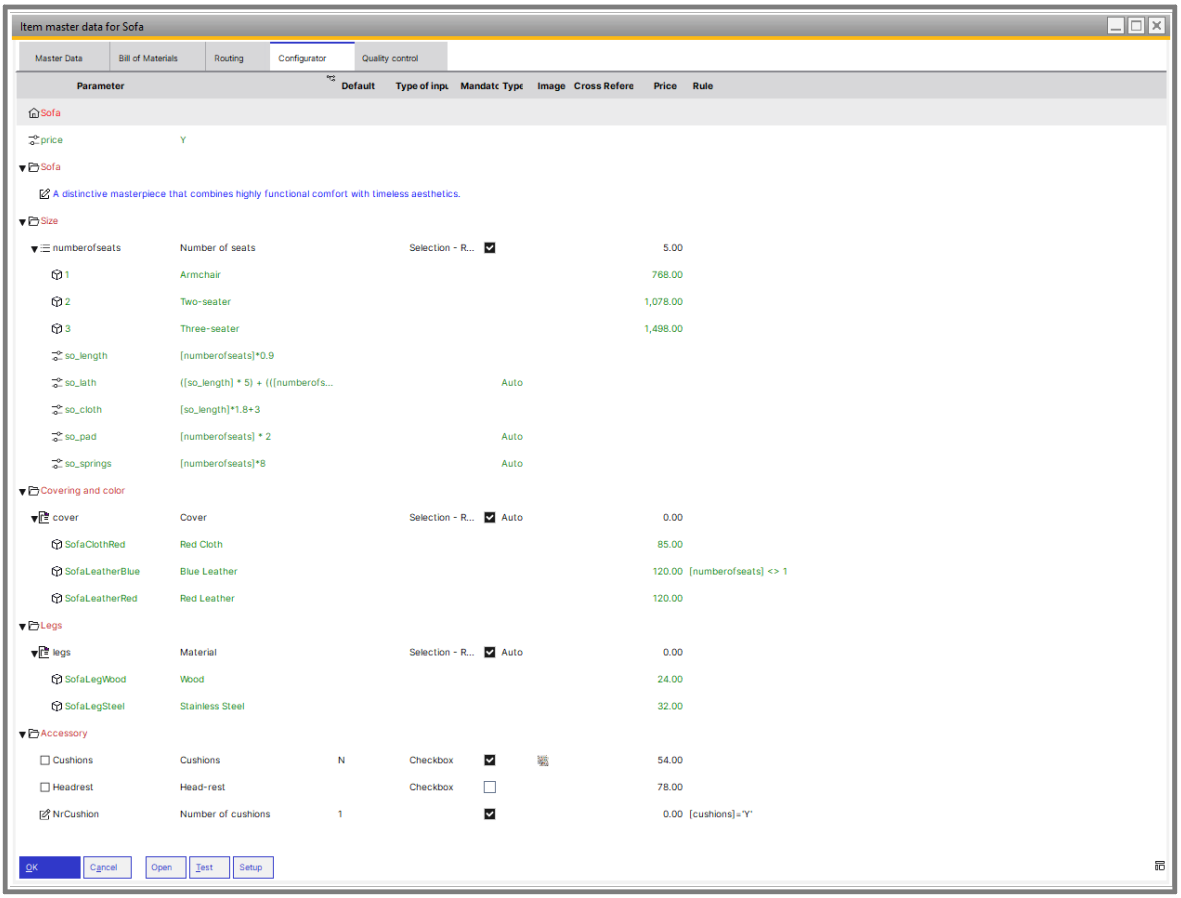
PATH: Inventory > Item structure/Item report > double-click an item > Item Master data for XXX > Configurator tab



Window artikel_edit.psr

Boyum Style configurator design

© 2026 Boyum IT Solutions A/S



Field Description

Field	Description
Parameter	Name of the object (e.g. the formula or selection).
Default	Definition of default value.
Type of Input	Definition of input as: normal, check box or selection.
Mandatory	Set field input as "Required".
Image	Image file name.
Cross Reference	Reference (referencing) via e.g. a database query.
Price	Value of fixed price. ***See*** Price - parameter
Rule	Visibility rule for the object.

Buttons:

Field	Description

© 2026 Boyum IT Solutions A/S

Parameter	Add new parameter to the configuration structure.
Open	Click to edit the configurator for the item. ***See*** Edit configurator.
Test	Opens the Configurator window.
Setup	Opens the Configurator Setup window where you can select Customer, Date, add Quantity and choose the target Variant.

see:

Configuration wizard – Production – Product configurator

back to item master

7.4.2.1 Edit configurator

The fields can vary according to object (e.g. formula, set object).

Field description of the configurator position

Field	Meaning
Name	Name of the object (e.g. the formula or selection).
Description	Description of the object.
Image	Image file name (can also be selected via the drop down list).
Size	Size setting for the selected image.

The tabs can vary according to object.

Description of tab

Tab	Meaning
Output	Specification of the output form.
Input	Specification of the input form.
Price	Price specification or price determination at run time.
Visibility rule	Definition of visibility of the object.

back to Configurator tab

© 2026 Boyum IT Solutions A/S

7.4.2.2 Output

Field Description

Field	Meaning
Form of Output	Output definition of image and title.
Long Text	Input of any required additional text.
Text1-3	Option of inputting 3 additional texts.

back to configurator tab

7.4.2.3 Input

Field Description

Field	Meaning
Required	Set field input as "Required".
Type of Input	Which input is possible in configurator. **Normal:** one line for entries. **Normal – large:** a large text field is available for input. Reaching the border, it is scrolled automatically. **Check box:** a check box to select the options is displayed. **Selection – Radio:** a radio button list displayed. **Selection – Drop down**: a reference is displayed in a drop down-list.
Default	Definition of default value.
Cross Reference	Input of a reference (referencing) via e.g. a database query.

back to configurator tab

7.4.2.4 Price

Field Description

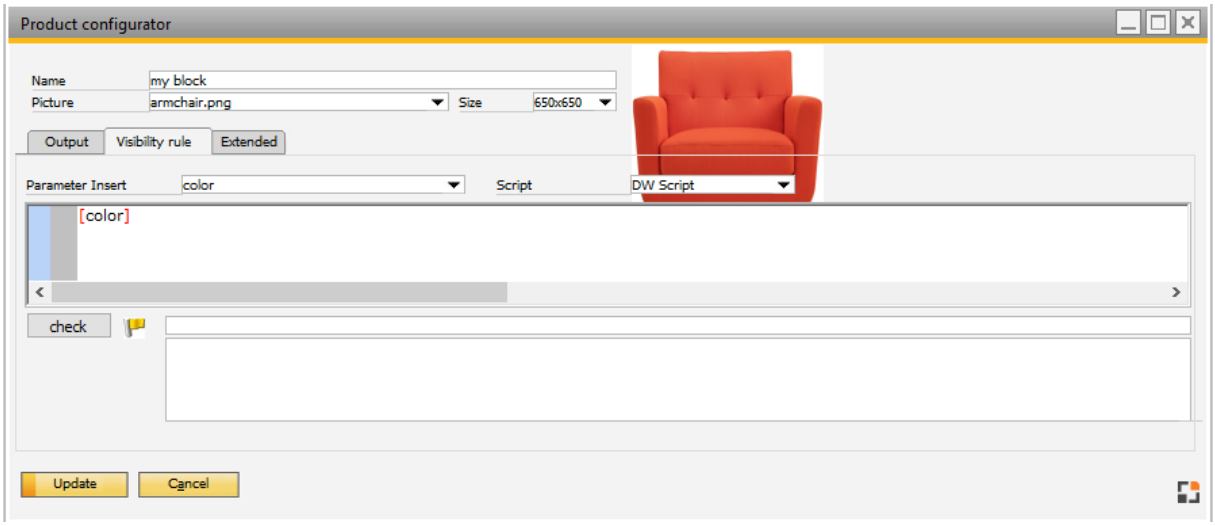
Field	Meaning
Price	Input of a fixed price. Right of the field you can find the used currency symbol, for example "$". ***See*** Price - parameter
Determine price using formula	Specifies whether price should be determined using a formula (at run time).

© 2026 Boyum IT Solutions A/S

Formula	Definition of a formula for price determination.

back to configurator tab

7.4.2.5 Visibility rule



Window artikel_produktkonfigurator_detail.psr

Field Description

Field	Meaning
Parameter insert	Selection of a previously defined parameter / input of the visibility rule. Syntax highlighting is supported in both 32/64Bit versions.
Script	Select from a pool of scripts: DW Script JavaScript Formula JavaScript VBScript Formula VBScript
Check function (button)	Possibility of syntax review of the visibility rule.

back to configurator tab

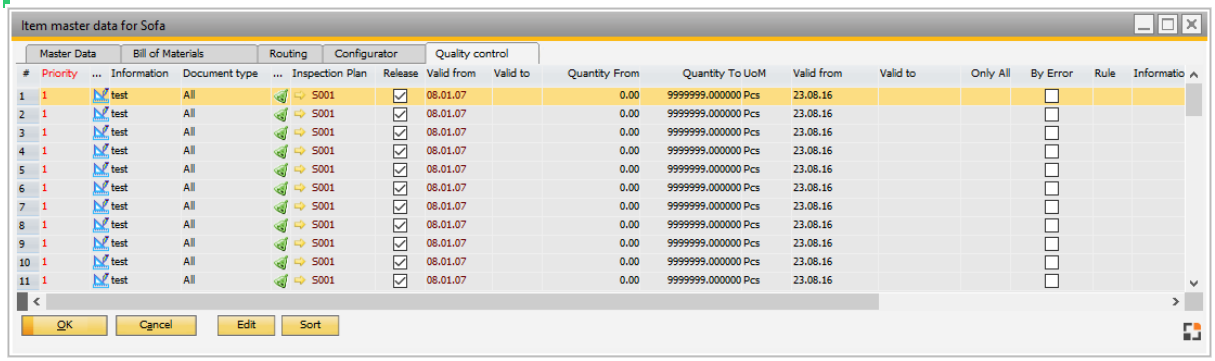
© 2026 Boyum IT Solutions A/S

7.4.3 Quality control

Inspection plans can be defined for an item. The inspection plan on top position in the list is used, matching the stored conditions.

The list is freely adjustable. ***See*** Window settings, Templates.
For Field descriptions ***see*** Item – QC-inspection plan – linkage
For editing, the authorization "Item Quality control" is required.

PATH: Inventory > Item structure/Item report > double-click an item > Item Master data for XXX > Quality Control tab



Window artikel_edit.psr

- List is sorted automatically by priority:

  Priority:

  Sorting by points
  Customer: 100 points
  Warehouse: 100 points
  I-Version: 100 points
  Document type: 50 points

  The list is sorted by the sum of points, quantity and date of validity.
  The more conditions have been defined for one entry, the higher the priority gets.

  If extended rules are active, sorting is done first after clicking the button "**Sort**". Otherwise, after every new entry.

  If updating from older Beas versions to *beas9.0-000-003-xxx:*

© 2026 Boyum IT Solutions A/S

Previous priority is similar to the new points system. After the update, sorting by points apply.

After the first call of this window it is queried whether to activate extended rule determination.

Note: If no Quality control plan is assigned to one specific item, the system checks if there is a quality control plan created with the same name as the item. In this case, the system assigns the QC plan to the Item.

See Item – QC extended rules

If Item – QC extended rules is disabled, the list can be re-sorted by click on "Information" and using Drag&Drop.

Fields

See QC Item – inspection plan – Linkage

Functions

Functions	Description
Update	Save the current sorting.
New	New entry.
Delete	Delete entry.
Edit	Open entry. ***See*** QC Item – inspection plan – Linkage.
Sort	Sort the list by Priority.

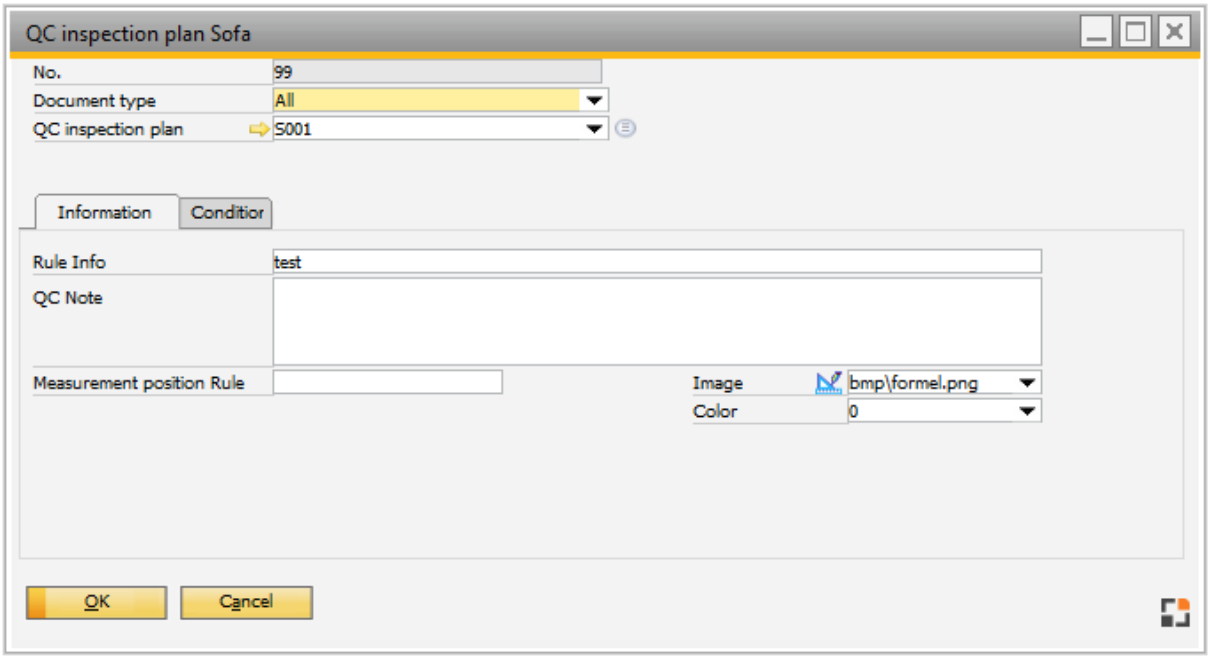
See: Quality control

7.4.3.1 QC Item-Inspection plan linkage

In this link you can store the rule and the inspection plan to be used for this item.
Creating a document, the stored inspection plan is used for the QC order to be created. If no matching entry is found, no QC order is created. If more than one entry fits, according to Priority the first one is used.

PATH: Inventory > Item structure/Item report > double-click an item > Item Master data for XXX > Quality Control tab > double-click an entry

© 2026 Boyum IT Solutions A/S



Window qs_qsverweis_edit.psr

At entry, 3 areas are to be filled:

- Information
- Condition: Creation of a QC-order can be controlled
- Rules: Determine, whether the entry is selectable

For editing, the authorization "Item Quality control" is required

Field	Description
No.	Continuous number assigned automatically.
Item	Item number, inserted automatically.
Document type	Rule applies for which document type. All = applies for all document types. **Document types** Goods receipt PO (I) – Purchase goods receipt Production (E) – Assembly posting in production Sales-Return (R) – Sales credit or offset Reaching Date of Expiry (C) – Set at "batches to be verified"

© 2026 Boyum IT Solutions A/S

	<table><tr><td>Stock transfer (T)</td><td>Stock transfer</td></tr><tr><td>Goods Receipt (M)</td><td>All manual postings</td></tr><tr><td>AP Invoice (X)</td><td>Purchase invoices</td></tr><tr><td>Goods return (Y)</td><td>Returns from purchase with negative amounts</td></tr><tr><td>Credit note (Z,O)</td><td>Credit memos</td></tr><tr><td>AR Invoice</td><td>Invoice with negative amounts</td></tr><tr><td>Delivery (P)</td><td>Deliveries with negative amounts</td></tr><tr><td>Invoices (Q)</td><td>Invoices with negative amounts</td></tr><tr><td>Batch Split (A)</td><td>Batch split</td></tr><tr><td>Batch transfer (B)</td><td>Batch transfer</td></tr><tr><td>Manual</td><td>Manual creation</td></tr><tr><td>Cancellation</td><td>Cancellation</td></tr></table>
QC-inspection plan	Stored the inspection plan to be used ***See*** QC-inspection plan.

Information

Field	Description
Rule Info	Only information.
QC note	Note is transferred to QC-order, it is specific to Item-QC-inspection plan .*(beas9.0-000-003-xxx)*
Measurement position Rule	Value is transferred to QC-order. The rule determines, which measurement positions are inserted or hidden. ***See*** QC-inspection plan – Edit measurement position
UDF1-UDF4	Free definable fields, e.g. Image and color. ***See*** Configuration Wizard.

Condition

If a matching entry was found, with this setting the creation of a QC-order can be prevented.

Only All documents	⊟ Enter interval - for every x goods receipt a QC-order will be created. Every rule has its own counter. ***Example***: 1. Rule: only every 5 goods receipts for supplier A

© 2026 Boyum IT Solutions A/S

	2. Rule: only every 2 goods receipts for supplier B For supplier A a QC-order is created for the 1., 6. and 11. goods receipt. Independent of that, for supplier B for the same item for the 1. and 3. goods receipt a QC-order will be created. *(beas9.0-000-003-xxx)*
Always by Error	⊟ Always create a QC-order after errors Only together with "Only All documents". If a QC-order is marked as faulty, independent of the above option at the next goods receipt a new QC-order is created. The counter is not reset. ***Example***: supplier A: only every 4 goods receipt a QC-order is created "always after error" is active. 1. Goods receipt O, 5. goods receipt not OK. Now for the 6. goods receipt a QC-order is created and then for the 9. goods receipt. *(beas9.0-000-003-xxx)*
Condition ÍScript	⊟ Use BeasScript to determine whether a QC-order is created return failure = do not create QC order return success = do create QC order **Available variables:**

e_qcorder	Origin document (DocNum/Linenum, Belnr_id/Belpos_id ...)
e_qcbasetype	Origin document type
e_qcbaseorder	Origin document number
e_qcbasebasetype	Origin of origin document eg. which WO in case of GR from external operation
e_qsitemcode	Item
e_qscardcode	Business partner

© 2026 Boyum IT Solutions A/S

Rules

Entry can only be selected, if the conditions are met. Tab is only visible if extended rules have been activated.

See Configuration wizard – Quality control

Field	Description
Business partners	Empty: Independent of the business partner. Otherwise only if in the respective document (Goods receipt PO, work order) the business partner is stored.
Valid from ... to	Only applies in the corresponding period.
Quantity from ... to	Only applies from the specified quantity (warehouse units).
Warehouse	Only when posted to this warehouse *(beas9.0-000-003-xxx).*
Item version	Only for this version of item. This function will be available with item versions *(beas9.0-000-005-xxx).*

See: Quality control

7.4.4 Characteristics

Up to 60 characteristics can be activated in SAP Business One for items.

The individual characteristics can be activated or disabled in this tab.

back to item master

7.5 Bill of materials

Configuration

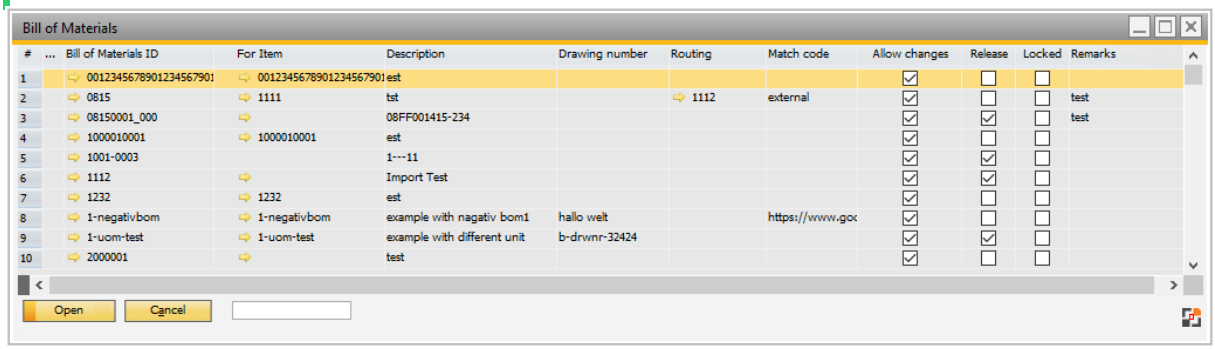
BoM List

- Edit BoM
  - BoM Positions
    - Edit BoM positions
  - Documents
- BoM batch change
- Difference BoM
- Copy BoM

© 2026 Boyum IT Solutions A/S

This list shows in which parts list the current article is located. If the parts list is in another parts list, these are also displayed. This is done up to a structure depth of 20.
This makes it possible to determine exactly which articles / parts lists are affected by the change of the article and this through all structures. This can be used e.g. for release mechanisms.

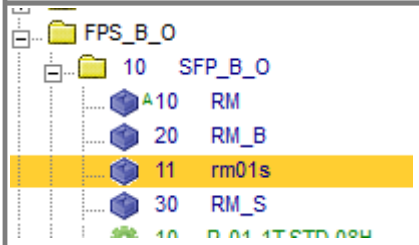
PATH: Inventory > Bill of Materials.



Window stamm_stlheader_browse.psr

Example:

Item rm01s is inside Assembly SFP_B_O and this is inside FPS_B_O
if you change rm01s, then you change all items, which use this item, example FPS_B_O

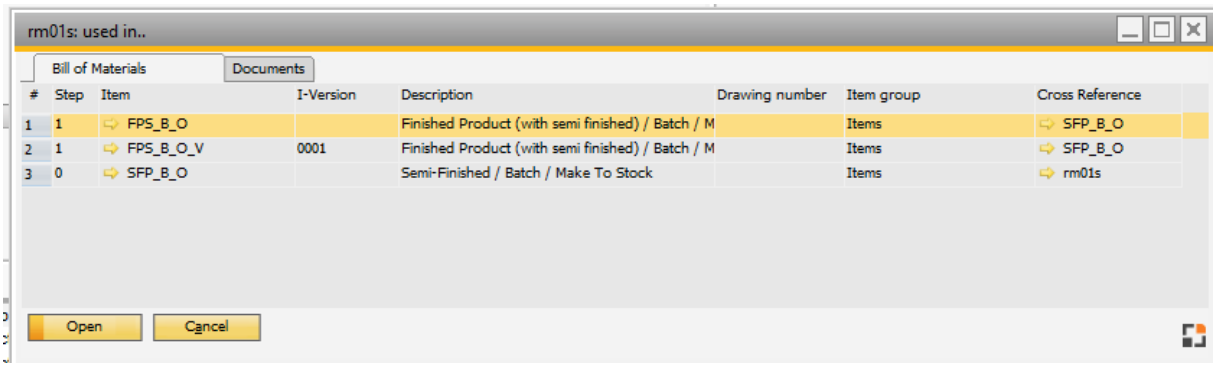
Traditional style	Boyum Style
	

In this example you can see the following result:
SFP_B_O -> from rm01s

© 2026 Boyum IT Solutions A/S

FPS_B_O -> from SFP_B_O

FPS_B_O_V Version 0001 with same assembly SFP_B_I



Window stamm_stlheader_browse.psr

Fields

The list of fields supports Window settings and Templates. ***See*** field descriptions in Bill of Materials – Edit.

Item Version supported.

Right-click functions and buttons

Function	Description
Open	Edit selected BoM.
Cancel	Close window without saving changes.
Add	Opens the Master Data window for a new Bill of Materials.
Remove	Delete selected BoM.
Search	Search field for BoM entries.
Cross Reference	Opens the BoM cross reference window.
Bill of Materials list of differences	Opens the BoM list of differences window.
Bill of Materials Batch changes	Opens the Change Bill of Materials window.
Duplicate to	Opens the Bill of Materials: Copy window.
Insert From	Opens the Bill of Materials / Routing: Import window.
Import	Opens the "CAD Import window". For more information on CAD Integration in the BOM administration ***see*** CAD Import..

© 2026 Boyum IT Solutions A/S

See

Configuration wizard BoM

BoM Rounding function

7.5.1 Edit BOM

Bill of materials

Edit BoM

BoM positions

Edit BoM positions

Alternative material

Cross reference

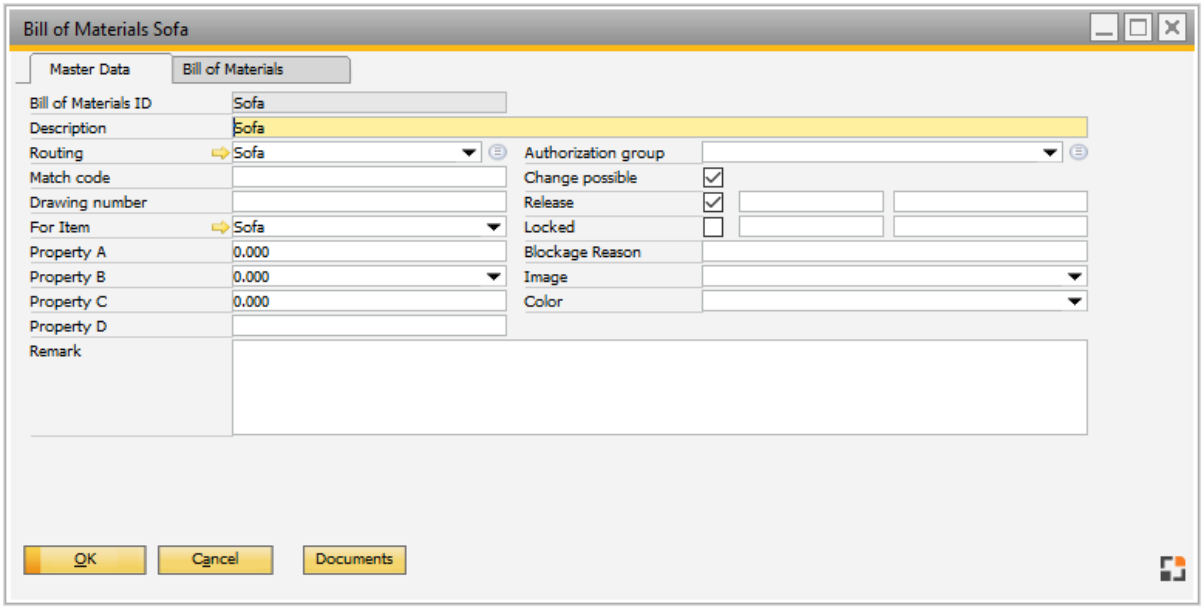
BoM Batch change

Difference BoM

Copy BoM

In this window you can enter detailed information for a Bill of Materials.

PATH: Inventory > Bill of Materials > "Master Data" tab.



Window stamm_stlheader_edit.psr

Field descriptions - Master Data tab

© 2026 Boyum IT Solutions A/S

Field	Description
Bill of Materials ID	BoM ID. The BoM can be assigned as the related item number, or free assignment is also possible. If a separate BoM is selected in the item master – administration, any BoM can be assigned. Note: One BoM can be assigned to multiple items. ***Example of use:*** The version number can also be assigned in the BoM ID: Item: 300.3042 BoM Version 1 = 300.3042-001 BoM Version 2 = 300.3042-002
For item	For which item the BoM was defined. It is a information field. Definition is not necessary, because the BoM can also be assigned to multiple items. ***See*** button "Example of use"
Description	Description.
Routing	Define the Routing Plan. In Item Master Data – Administration you can define the Version Control Administration. If you define "Separate Bill of Materials", you must link in this field the Routing position to the Bill of Material. In this field you can choose the Routing plan. If you don't define this, the system copies the BoM ID in the Routing ID field. *Beas 2020.02*
Match code	Further ID for the BoM for simplified search.
Drawing number	Drawing number.
Release	Determine the release of BoM . Only for information. BoM can be used in any case.

© 2026 Boyum IT Solutions A/S

	In the Configuration wizard you can set up, whether the BoM is released immediately after new creation / copy. ***See*** Configuration wizard. At a release, the name of the user, date and station name, will be entered, on which the release executed. The release affects on the create work order: If the BoM is not released, a related work order cannot be created, or locked. The error message *'(checkrelease5) The BoM <...> for item version <...> / <...> is not released or locked'* will be issued.
Authorization group	By clicking the icon, the Authorization group window opens.
Change possible	If active, editing for the entry is locked.
Locked	If active, locking information is displayed indicating the date and time and the personnel.
Blockage reason	The reason for locking.
Picture	Select an image to appear for this BoM in the browse window.
Color (...)	Select a color of display for the detailed information of this BoM in the browse window.
UDF 1–4	Free definable fields. (***See*** Property A-D in the image above)
Remark	Add remarks to this BoM.

Special right-click functions:

Refresh window: Refresh changes

Change log: Open the Change log for this BoM.

7.5.1.1 BOM positions

Bill of materials

Edit BoM

BoM positions

Edit BoM positions

© 2026 Boyum IT Solutions A/S

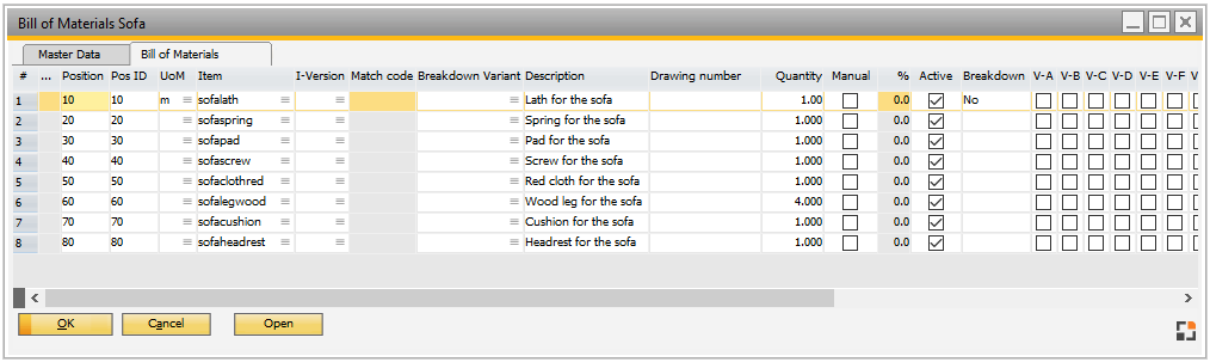
Alternative material

Cross reference

BoM Batch change

Difference BoM

Copy BoM



Window artikel_stlpos_browse.psr

Window settings and Templates are supported.

Field descriptions

Field	Description
...	Bitmap image associated with the position.
Position	BoM position number. ***See*** more details in Edit Bill of Materials.
Pos ID	BoM position ID
UoM	Inventory unit of measure
Item	Item number of material, sub-assembly or phantom item ***See*** more details in Edit Bill of Materials.
I-Version	If item version control is active, the default version number or variant is entered here. An alternative variant or version can be selected. Based on this the BoM or routing is determined (if the item is an assembly).
Description	Short name of BoM position **Master data** If "manually" is disabled, the designation of the selected item is displayed. If an I-Version was selected, the designation of the item version is

© 2026 Boyum IT Solutions A/S

Field	Description
	displayed. It is not copied to the BoM; the original designation is used at all times. If you enable "manually" you can change the designation. It will be saved, then, in the BoM position. **Note:** In BoM – list the designation cannot be changed. **Production / Precalculation** Designation of used material / Assembly, changeable.
Quantity	Number of units available.
Manual	Allows a manual entry of drawing number **Only visible in master data** If active, the drawing number and designation can be entered manually. If not, it is taken from master data of the selected I-version. You can define a default item in Configuration wizard to be used for BoM positions without existing items. If the default item is inserted into a BoM position, the switch "manually" is disabled automatically.
Routing pos	The ID of the linked routing position.
Warehouse	Code of the Warehouse where the item is stored.
Bin Location	Bin location number - available for bin-managed warehouses. Only valid "Bin Locations" for the selected warehouse are allowed. After changing the warehouse, the bin location content is set to empty in this field. **Work Order BoM and Precalculation:** A work order created from an Item, or Precalculation copies this field automatically for the BoM. If there is not enough stock to pre-assign quantities from this, pre-

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>defined bin location, Beas continues to pre-assign them from further bin locations based on the sorting rules.</td></tr>
<tr><td>BBD Options</td><td>Define Best Before Date (WMS) values

WMS Integration:

Define a "Best Before Date" (WMS) value for the Bill of materials position.
IMPORTANT: The selected value can only be applied during the Picking for Production process in WMS.

For more information on each WMS Best before date value, see Produmex WMS documentation > Produmex WMS Fields and Settings > 3.1 Bill of Materials.
<table><tr><th>Value</th><th>Description</th></tr><tr><td>D</td><td>"Due date and shelf life" (This is the old DEFAULT value in versions prior to Beas 2023.02)</td></tr><tr><td>P</td><td>"Pick date" (Default when no value is defined)</td></tr><tr><td>B</td><td>"Best before date of finished product and shelf life"</td></tr></table>
The field is hidden by default and can only be made visible after manual selection in the Window settings of the function.
Only available in the following BoM browse forms:
artikel_stlpos_browse.psr
fert_ftstlpos_browse.psr

When a Work order is created, the default values defined in the BoM master Data are copied to the Work Order BoM definition. Those values, then, can be modified for any specific WO to have different values than the standard.

Limitations: Precalculation does not support this field.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

- Sorting

The position is alphanumeric information and does not define the sorting.

Steps to change sorting:

1. Click on the field position and hold the mouse button. A right hand shaped cursor appears.
Note: the selected field may not have the focus.
2. Move the cursor with pressed mouse button to the desired row.
3. Release the mouse button.
4. The row will be moved to the new row position accordingly.

Note: The position number is not renumbered automatically. This can be executed via **right-click > renumber**.

For more information on Position number, Sorting and Field descriptions ***see*** Field description "Position"

- Example: Gas Nozzle Sub-assembly

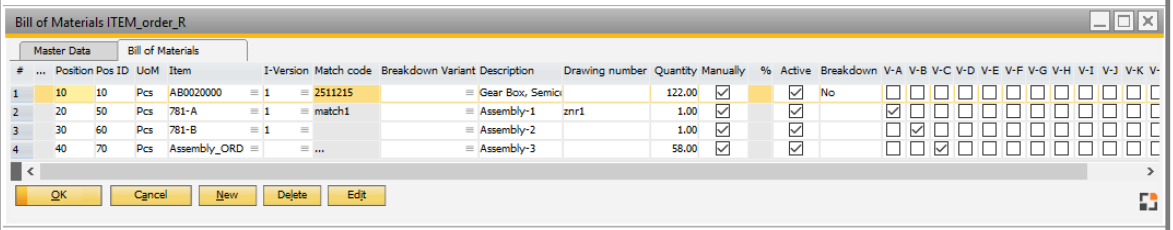
BoM contains:

12 Damper Disk Bracket
12 Crimp PC connector 22x 23"
4 Wire 15" green
1 Plate 1"x12,5" Control Mount

If several operations are needed to manufacture an item, the material can be assigned in the BoM of each operation.
Double-clicking on an item opens the editing window. ***See:*** Edit BoM item

- Variants A-Z

In this list you can define which variant (A-Z) of the BoM should be used.
To work with variants A-Z, you must make them visible via right-click > window settings.



Window artikel_stlpos_browse.psr

© 2026 Boyum IT Solutions A/S

If a check box is enabled, the BoM is considered if the selected variant is produced.
The BoM is ALWAYS considered if no check box is enabled.

Column setup: ***See*** Variants – notes on database

Working with Variants

Beas includes proprietary variant management. It is possible to store up to 26 variants for an item. The descriptions of the variants are stored directly with the item.
A variant is a fixed occurrence of the parameters defined in the item.

Define which BoM positions and routing position must be used for this variant (A-Z).
The variants (Variantenmatrix) can be inserted in the BoM or in the routing via window settings.

The following rule applies:
This position will be inserted if no variant – check box is enabled.
If at least one variant is active – check box, the position will only be inserted if the resulting check box has been selected.

Master Data | Bill of Materials

#	...	Position	UoM	Item	I-Version	Description	Quantity	Manually	Active	V-A	V-B	V-C	V-D	V-E	V-F	V-G	V-H	V-I	V-J	V-K	V-L	V-M	V-N
1		10		sofalath		Lath for the sofa	46,800	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2		20		sofaspring		Spring for the sofa	24,000	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3		30		sofapad		Pad for the sofa	6,000	☐	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4		40		sofascrew		Screw for the sofa	50,000	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5		50		SofaLeatherRed		Red leather for the sofa	19,200	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6		60		SofaLegSteel		Stainless steel leg for sofa	4,000	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Windows artikel_stlpos_browse.psr

Define variant description

Variants A-Z can be named in the item or in the configuration wizard. ***See*** Configuration wizard, Item master data

> Note: At a variant definition Variants are always sorted by A-Z in lists instead by the names which are stored in the article master.

Field definition in database and data import

The variant definition is stored in the tables `BEAS_STL.SHORTVARIANTDEF` (for BOM) and `BEAS_APL.SHORTVARIANTDEF` (for routing) as a "character string".
It consists of 26 characters with J (Active) and N (Not active)
Example: `JJNNNNNNNNNNNNNNNNNNNNNNNN` = Active for variant A and B

© 2026 Boyum IT Solutions A/S

Please note:
If there is something else in this database field or the "string" is not exactly 26 characters long, the variant will not be checked!

- Variants in sales order

To create a customer order using a specific variant, create the customer order, then select the item, and select it via the right-click-menu "variant". In the new window all variants are displayed. Select the variant which you will have for the item in the actual line of the customer order. You can select from existing variants, copy a variant, or generate a new variant by entering parameter values for this item.
Calculation: You can perform a calculation for a line, according to its variant, from a quote or order in SAP Business One. The Precalculation can be called up via right-click-menu "calculation". Parameters not defined in the variant are queried explicitly during the BoM breakdown. A calculation structure modified according to the parameters is created. The result is usually displayed in the calculation window. You can also convert it into a work order.
The resulting variant is transferred automatically to the customer order or quote line. You can then generate a work order from the customer order. The BoM and routing from the work order are then customized accordingly.

- Variants in Order recommendation list

If a work order is to be created for a sales order, the variant stored in the sales order is displayed when you switch to the "Production" tab in the bottom left window. If no variant is stored, this can be selected here if variants are stored in the item.

Requirement calculation: If no work order exists for a sales order yet, and it is an order-based item, the variant stored in the sales order is considered for the requirement calculation. In case of an assembly (warehouse-managed item), the BoM and routing positions active by default are used, i.e. you must define which default scenario should be used for requirement calculation. It is generally unreasonable to produce variant items in the warehouse.

- Variants in pre-calculation

All variants are loaded in a Precalculation at all times. In the header of the calculation, the variant to be calculated currently can be selected. All BoM positions and routing positions not belonging to the currently selected variant are grayed out and not

© 2026 Boyum IT Solutions A/S

evaluated.
It is not possible to change Variant settings in the Precalculation.

- Variants in work order

When manually creating work orders, the variant can also be selected for the assembly position if variants are stored in the item.
This only works when creating a new work order. This cannot be changed subsequently.

- Variants per warehouse

In extended warehouse master data a default variant can be created. Different variants of a product can be produced depending on the production warehouse. If a work order is created (manually or via MRP) the respective variant is inserted. *(beas9.0-000-000-006)*.
See Edit extended warehouse data

- Variants with version control

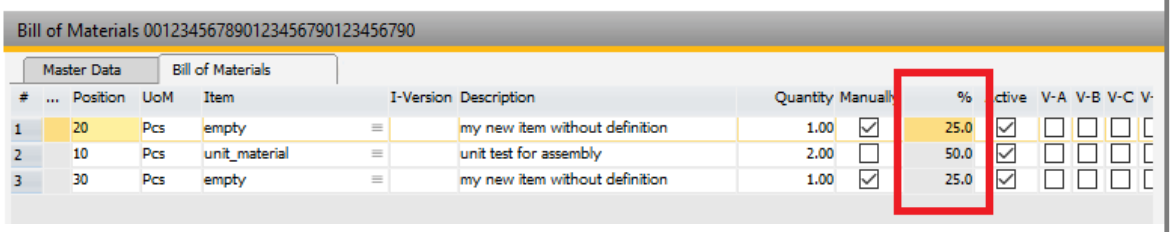
If Version control is set to "Variants", an item version corresponds to a variant. Use this if a BOM and routing needs to be defined separately for each variant. This can be performed without formulas and scripts.

- Item with BoM per item version

This list can be called up via BoM administration. If working with a separate BoM per version for this item, the tabs "BoM" / "Routing" are hidden. These can be selected via item version.

- Percentage display

It is possible to display quantities of BoM positions in %: Window settings > activate column %
The requirement of single BoM positions is displayed in %. The sum of all quantities equals 100%.



Window artikel_stlpos_browse.psr

© 2026 Boyum IT Solutions A/S

Example:
Pos 10 = 3 ml = 60%
Pos 20 = 2 ml = 40%

Calculated as follows:

```
Single quantity : Sum of all quantities * 100
```

Important:
Scrap % and fixed surcharges are not considered. If you use one of these factors, the display will not be correct.

For the calculation the consumption unit will be used. All BoM positions must have the same consumption unit, but different the warehouse unit and input unit.

Right-click menu

Function	Meaning
Open	Edit BoM item (like double-click).
Search	Open search menu.
Add	Create new BoM item.
Remove	Delete BoM item. Multiple selection and deletion is supported.
Report	Open list of stored reports.
Next entry	Jump to next entry.
Window settings	Open window settings.
Renumber BOM	⊟ BoM is renumbered The currently visible BoM is renumbered after new sorting. Increments can be set up in the Configuration wizard. Only the visible column will be numbered *(Feld "BEAS_STL.POS_TEXT")*. Internal numbering will not be changed *(Feld "BEAS_STL.POS_ID")*.
Duplicate to	Open the window "Duplicate BoM".
Insert from	Insert a copied BoM position from clipboard.
Save sorting	Sorting of position is determined by drag&drop. After moving, you can save the sorting.
Protocol	Change log.

© 2026 Boyum IT Solutions A/S

Formula assigned for active field	A formula can be stored for the selected field.
Inventory history	Open inventory history.
Difference	Query for difference BoM.
Alternative material	Add alternative material.

See

Configuration wizard BoM

Data set selection

Window

Sort function Youtube

back to item master

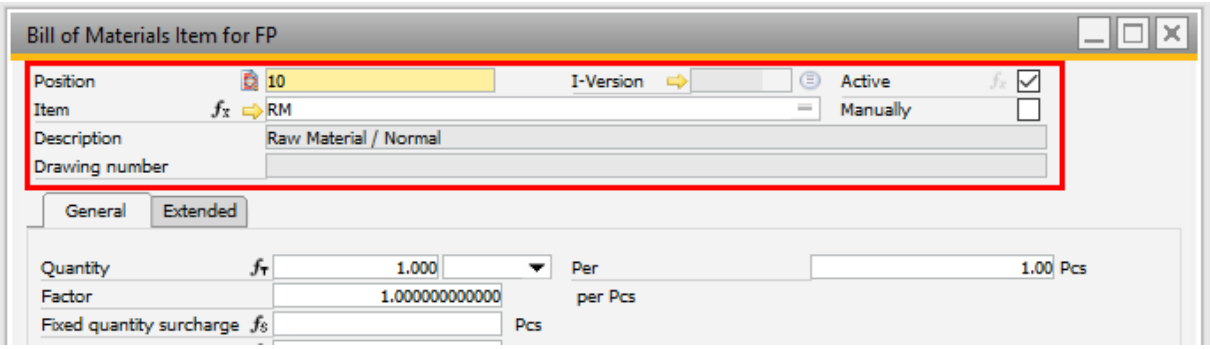
7.5.1.1.1 Edit BOM positions

Bill of materials
- Edit BoM
  - BoM positions
    - **Edit BoM positions**
      - Alternative material
  - Cross reference
- BoM Batch change
- Difference BoM
- Copy BoM

In **Bill of Materials > Edit (item)** you can add detailed BoM-specific information by filling various fields in three tabs: General, Extended and Costs. Item master data are not affected.

Header:

© 2026 Boyum IT Solutions A/S



Window artikel_stlpos_edit.psr

Header Field descriptions:

Field	Description
Position	Position number The position number is counted in increments of 10. ***See*** Configuration wizard to set up. The field is alphanumeric with 20 digits. Note: The order is not related to position number. It is defined in the list of BoMs by Drag&Drop, it reflects the order of entry by default. Position number must be unambiguous. The following fields are available: BEAS_STL.POS_TEXT = visible, alphanumeric ID BEAS_STL.POS_ID = continuous unique ID BEAS_STL.SORTID = determines sorting **Note on Update:** If you updated from an older version (Beas 9.1 PL: 07 and older) , the position text and sorting will be pre-assigned with the previous internal ID (POS_ID). **Advantages** ✓ Double Numbering possible (e.g. at maximal BoM) ✓ Simpler sorting (Drag&Drop) ✓ Changes of links to routings ✓ Alphanumeric number assignment (Project manufacturer / Connection to PLM systems)

© 2026 Boyum IT Solutions A/S

Field	Description

Example: Multiple assignment of same position number

BoM with conditions

Position text	Pos ID	Sort ID	Variant	Description
10	10	1	A	rod red color
10	20	2	B	rod bue color
10	30	3	C	rod yellow color
20	40	4		screw 6 x 40
30	50	5		screw 3 x 50

The position 10 was assigned 3 times, respectively for a variant in this example.

Only one of the 3 positions is used in dependence of the variant, so that always the correct BoM could be created with the position numbers 10-20-30 without re-numbering.

Example: Alphanumeric Position number

Alphanumeric position numbers are often assigned at complex drawings.

Important: A sorting by the alphanumeric number position is not wanted here generally, because the alphanumeric positions are also used as position ID on a technical drawing.

Position text	SortId	Description
Z1	1	Module 400o-200
A-5020	2	Module 300a-400
A-5020/1	3	Screw 3x20
A-5020/2	4	Screw 4x25

AS_APL / BEAS_FTAPL.POS_TEXT

Renumber at creating work order

The BoM can be renumbered automatically if a work order is created, but the parameter for this can be deactivated in the Configuration wizard.

© 2026 Boyum IT Solutions A/S

Field	Description

Note: For phantom items, BoM positions are always renumbered – even when the parameter is off.

Variants with script

Left to the position field you can open the script window by clicking the formula icon f_x.
Enable the fields by **right-click >"display formula fields"**

Formula icons

Icon	Boyum Style icon	Description
f_x	f_x	Function
f_T	f_T	Table
f_S	f_S	Script and other Variants
f_x	f_x	Empty formula
		Text edit disabled. Double-click to open the script editor. Located left of Item number in Item Master data.
		Text edit - script is inside. Double-click to open the script editor. Located left of Item number in Item Master data.

Important: This function is only available if the Variant generator is activated in the Configuration wizard.

See more details in Formulas, Tables, Variables and BeasScript.

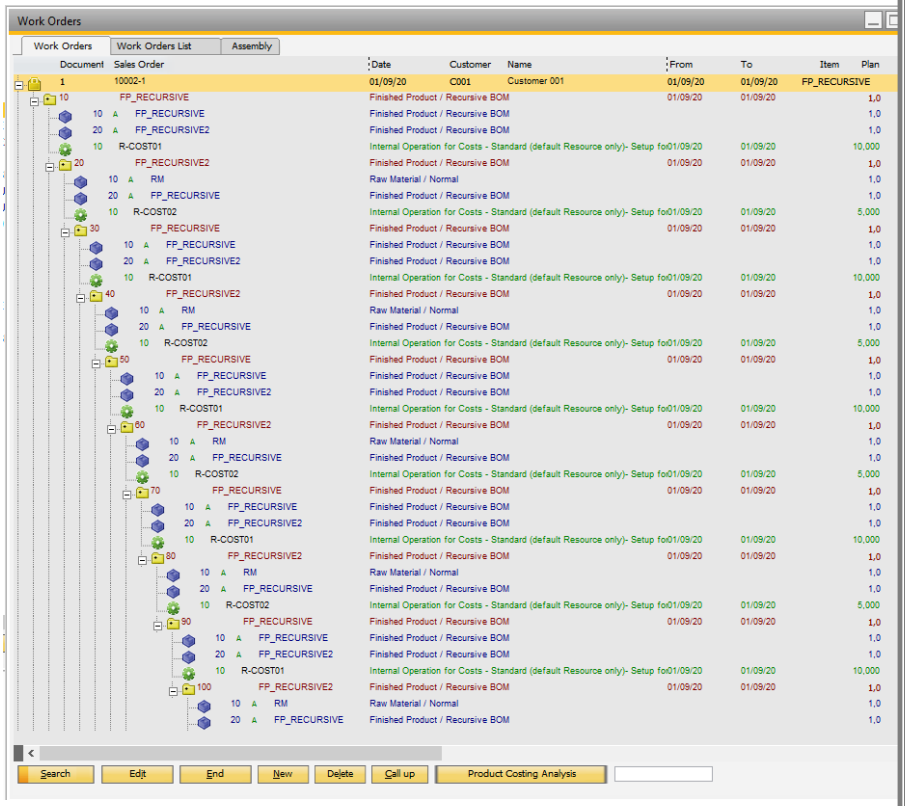
The following variables are available:

Variable	Description
`e_belnr_id, e_belpos_id`	Work order, Work order position

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Variable</th><th>Description</th></tr><tr><td>e_itemcode</td><td>The Assembly from work order position</td></tr><tr><td>e_quantity</td><td>Quantity in regional format</td></tr><tr><td>e_source</td><td>"Routing"</td></tr><tr><td>e_info1</td><td>Info for current routing position</td></tr><tr><td>e_rohitemcode</td><td>The Material from BoM</td></tr></table> ***See*** Variant generator – Script Sorting function
Item	Item number of material, assembly or phantom assembly The item number of the material, assembly or phantom assemblies needed for the assembly are stored here. Note on entry in Production - Edit BoM If an order-related assembly is added when saving the BoM position, the assembly is added to the work order. If a sub position is linked to this Bill of Materials position or a receipt or issue document for this position exists, this field is protected. Assembly and BoM - Item same (recursive) In the following example a recursive item is inside the structure: FP_RECURSIVE is inside FP_RECURSIVE. The system display sthis only as material. Inside FP_RECURSIVE2 you can see FP_REURSIVE. In this case it produces a recursion.

© 2026 Boyum IT Solutions A/S

Field	Description
	This produces the following recursive production order: FP_RECURSIVE: no breakdown But inside "FP_RECURSIVE2" there is "FP_RECURSIVE" again, which produces the recursion, but max. up to 20 levels.  Beas displays the following error message: *BoM explosion of more than 10 levels not possible! Cancel sub-assembly FP_RECURSIVE* ***See***: Item breakdown *BEAS_STL.ART1_ID*
I-Version	Version number or Item variant If item version control is active, the default version number or variant is entered here. An alternative variant or version can be selected. Based on this the BoM or routing is determined (if the item is an assembly).

© 2026 Boyum IT Solutions A/S

Field	Description
	This field is visible only if item version control was enabled. The "Active" check box to the right has to be selected. ***See*** tem version control Note on entry in Production – Edit BoM If a sub-position is linked to this Bill of Materials position, or a receipt or issue document for this position exists, then this field is protected.
Description	Short name of BoM position **Master data** If "manually" is disabled, the designation of the selected item is displayed. If an I-Version was selected, the designation of the item version is displayed. It is not copied to the BoM; the original designation is used at all times. If you enable "manually" you can change the designation. This is, then, saved in the BoM position. **Note:** In BoM – list the designation cannot be changed. **Production / Precalculation** Designation of used material / Assembly, changeable.
Drawing Number	Drawing number of BoM position **Master data** If "manually" is disabled, the designation of the selected item is displayed. If an I-Version was selected, the designation of the item version is displayed. It is not copied to the BoM, the original designation is used at all times. If you enable "manually" you can change the designation. This is, then, saved in the BoM position. **Note:** In BoM - list the designation cannot be changed. *Designation changeable from beas 9.1 PL: 08*

© 2026 Boyum IT Solutions A/S

Field	Description
	Production / Precalculation Designation of used material / Assembly, changeable.
Active	Mark check box to make the BoM active.
Manual	Allows a manual entry of drawing number **Only visible in master data** If active, the drawing number and designation can be entered manually. If not, it is taken from master data of the selected I-version. Use this option if no item is available for the position. You can define a default item in Configuration wizard to be used for BoM positions without existing items. If the default item is inserted into a BoM position, the switch "manually" is disabled automatically.

Right-click function

Function	Meaning
Add	Create new BoM position.
Duplicate	Create a duplicate of the current BoM position. Selecting this menu entry opens a dialog to "Enter new ID" for the duplication.
Remove	Delete BoM position.
Inventory Movements	Open the Inventory Movements.
Invent.History	Display inventory history for this item.
Change log	Change log for this work order.
Formula-allocation for active input	A formula or a table (only master data) can be stored directly about this in the active field.
Formula list	List of all formulas stored in this routing. Its execution sequence can also be changed (only master data).

© 2026 Boyum IT Solutions A/S

Display formula fields	Work with Variant System. The stored formulas created with the Variant generator can be displayed for the BoM.
Alternative material	Defines alternative materials.
Position re-activate	Reactivate a closed position. Only available if - Production – Bill of Materials window - Position is closed with this function you can reactivate this Bill of Material position but only if the work order position is not closed.
Last messages	Displays a log with version code and exact time of system messages with the latest on top.

General tab

Extended tab

7.5.1.1.1.1 General

Bill of materials

Edit BoM

BoM positions

Edit BoM positions

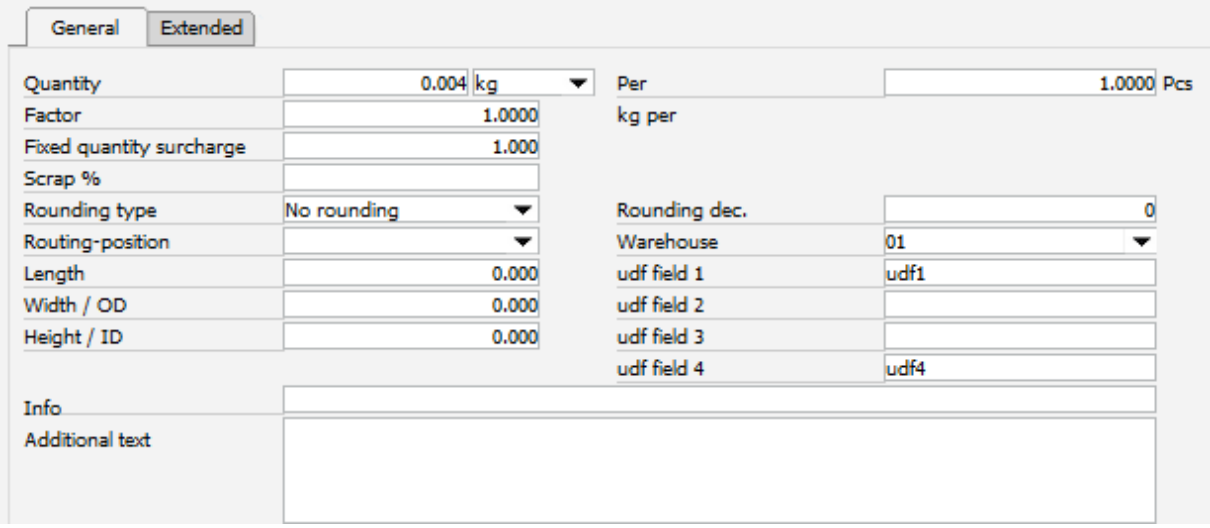
BoM position - General

BoM position - Extended

BoM position - Costs

In the General tab you can define various quantity-specific information for the BoM item:

© 2026 Boyum IT Solutions A/S



Window artikel_stlpos_edit.psr

Field descriptions

Field	Description

Quantity	Requirement in Input units
	Determines the requirement in input UoM per assembly in input unit (***See*** Input UoM , Units of measure)
	
	Calculation of total quantity
	The total quantity is always in inventory UoM
	Calculation is
	
	`total quantity = input UoM`
	`* Conversion factor to production UoM`
	`* Scrap % (formula: see scrap%)`
	`* Conversion factor to inventory UoM`
	`* (Quantity from work order position * Conversion factor to inventory UoM)`
	`: Quanity per (see per)`
	`+ fixed quantity surchase`
	
	IMPORTANT: When an UoM Group is defined for an item, the UoM Conversion is applied based on SAP definitions and NOT the conversions defined in Beas.
	
	Not planned Material position (Quantity = 0)
	You can define Material position with Quantity = 0

© 2026 Boyum IT Solutions A/S

Field	Description

Example: For Material positions which you need only in processes related to the business work flow or production processes of a company.

Valuation

In precalculation / post calculation you can define if Beas should valuate this Plan/Real cost. ***See*** Configuration Wizard Value negative quantity.

By-products, coproducts, disassembly (negative quantity)

Sometimes the user needs to indicate that several products are a result of a work order. These products can be:

- Co-product: Usable product, automatically generated during the production of the main product.
- By-product: A product that occurs incidentally or undesirably during the manufacturing of the main product.
- Dismantling: Disassembling of assemblies and returning components to the inventory.

In these cases, the BoM quantity is entered as a negative entry.

Negative BoM quantity behavior

Procedure or module	Negative Bom quantity is treated as
Order recommendations	Planned receipts.
Backflushing	Posted automatically or manually.
Work order structure	Displayed in the same color as assemblies but with another icon. Displayed positive (as receipt).
Posting	Manually, backflushed or posted in via collective receipt. ***See*** Collective receipt.
Merging work orders	Individual receipts are inserted as negative BoM items and posted correctly to the WIA account.
Sales order	Negative items can be reserved for sales orders.
Pre-calculation	Valued according to Configuration wizard > Precalculation > Value negative quantity.
Post-calculation	Valuation based on post-calculation is not possible.

© 2026 Boyum IT Solutions A/S

Field	Description

Order related sub assemblies

A Bill of materials position can be a sub-assembly with own Bill of materials list and Routing position.

How to manage this in the areas:

Procedure or module	Result
Pre-calculation	Bill of materials defined as receipt (negative costs) Valued according to Configuration wizard > Precalculation > Value negative quantity. Routing positions cannot produce negative costs. These are always zero.
Post-calculation	**Planned cost:** Bill of Materials: negative costs Routing position: zero **Real costs:** Bill of Materials: Sum of all transactions Routing position: Sum of all time receipts. It can only be positive value.

Configuration example for disassembling:

For disassembling, there is no main product. Use a service item (not storage-related) and define the resulting products in the BoM. Expected quantities are entered as negative.

```
Service item
|_ Product 1
|_ Product 2
```

Configuration example for a by-product:

For by-products indicate a main product on top level. This way you can work with off-cut and reuse waste material.

```
Main item
|_ Material
|_ By-product
```

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
Information on field names
<table>
<tr><td>Area Master Data
<table>
<tr><td>Quantity input UoM</td><td>BEAS_STL.INPUT_QTY
If the stored value is NULL, MENGE_VERBRAUCH will be used.
In th entry window, INPUT_QTY is entered, using INPUT_FACTOR the column MENGE_VERBRAUCH is calculated.</td></tr>
<tr><td>Input UoM</td><td>BEAS_STL.INPUT_UNIT
Input UoM</td></tr>
<tr><td>Factor</td><td>BEAS_STL.INPUT_FACTOR
Conversion factor from input unit to production UoM</td></tr>
<tr><td>Quantity Production UoM</td><td>BEAS_STL.MENGE_VERBRAUCH
Requirment in production UoM. Reference quantity for all following calculations</td></tr>
<tr><td>Production UoM</td><td>OITM.U_me_verbr
Production UoM from item master</td></tr>
<tr><td>Quantity warehouse</td><td>BEAS_STL.MENGE_LAGER
Requirement in Inventory UoM – Information only</td></tr>
<tr><td>Inventory UoM</td><td>OITM.InvNtryUom
Inventory UoM as per item master</td></tr>
</table>
</td></tr>
</table>
INPUT_QTY, QUANTITY_USE

Note:

If an issue or receipt document is created for this position or the position has order-related sub-assemblies, it is not possible to change the quantity.

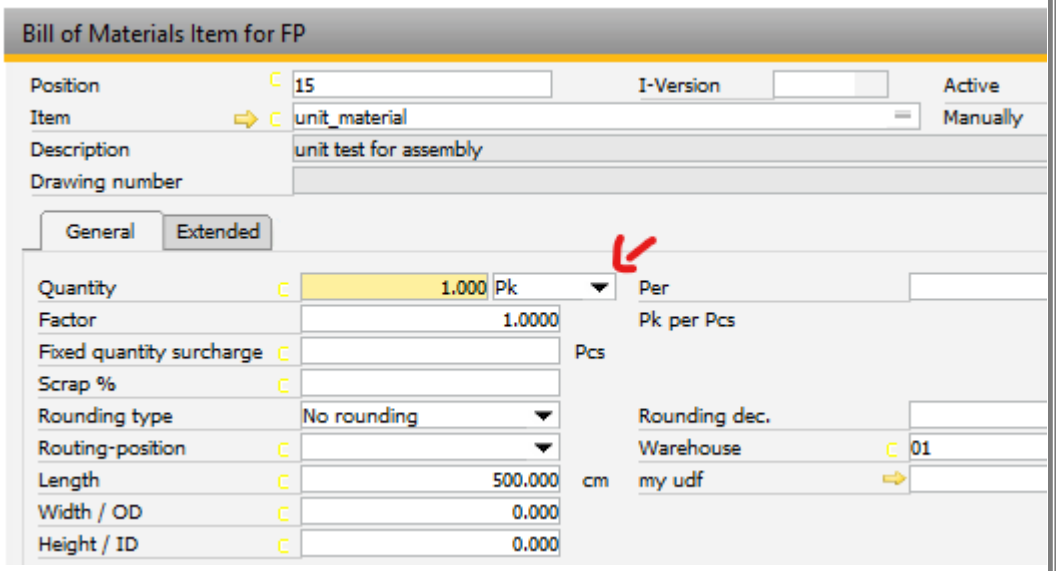
INPUT_QTY, QUANTITY_USE
</td></tr>
<tr><td>Quantity per ..</td><td>
Defines in which unit the quantity specification takes.

The quantity specification relates to the assembly quantity x the factor specified here. At quantity 2 and "Quantity per 10 pieces", 2 pieces are needed per 10 assemblies. The default for "Quantity per" can be stored in the options.
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description

	Requirement (quantity per) means: how much material is needed per assembly (quantity given in "quantity per")
	Assembly quantity "1" relates to the consumption unit of the assembly
	BoM quantity relates to the consumption unit of the BoM item
	
	Quantity per = 0
	`Entered quantity = Total quantity`
	Note: It is recommended to use "fixed quantity surcharge" instead of 0.
	
	Quantity per = 1
	`Entered quantity * Assemblies to be produced in Production UoM`
	
	Quantity per > 1
	`Entered quantity * Assemblies to be produced in Production UoM : Quantity per`
	MENGE_JE

Unit	Determines the unit of the quantity to be entered This is the field right of Quantity without title. Here you can choose the Unit of Measurement, in which you want to define the needed Quantity (***See*** field Quantity) Standard is Production UoM ***See***: Units of measure  Inventory / Bill of Materials

© 2026 Boyum IT Solutions A/S

Field	Description
	It is possible to change this field every time and to every UoM which is defined in the Unit of measurement. **UoM Group is defined in defined item** If a Unit of Measurement Group is defined in the Master Data of this Material, you can choose only an UoM defined in the UoM Group. It is not possible to change the Factor in this window. Related to the conversion formula and current values of this BoM Position, the system calculates the Quantity in Production UoM and then the Inventory UoM. **UoM Group is not defined in the item** If the item does not have a UoM Group, you can choose every UoM. You can define a factor between this input unit and production unit only if the defined UoM is not the Production UoM of this item. Note: Beas ignores length/width/height change as these are part of the Conversion factor - formula. If you change the UoM factor in the item master data, or if you change the formula in the UoM, it does not affect the existing Bill of materials positions. The system takes the conversion factor defined in this window. If you create a work order and the UoM Group is not defined, the system ignores the UoM and UoM Factor definition, and always works with production UoM. Related to the conversion factor, the system calculates the Quantity in Production UoM and then the Inventory UoM. Precalculation It is possible to change this field every time and to every UoM, which is defined in the Unit of measurement. if a Unit of Measurement Group is defined in the Master Data from this Material, you can choose only an UoM defined in the UoM Group. Note: It is important that a UoM Conversion factor is defined in UoM Conversion. Related to the conversion formula and current values of this BoM Position, the system calculates the Quantity in Production UoM and then the Inventory UoM. Work order

© 2026 Boyum IT Solutions A/S

Field	Description

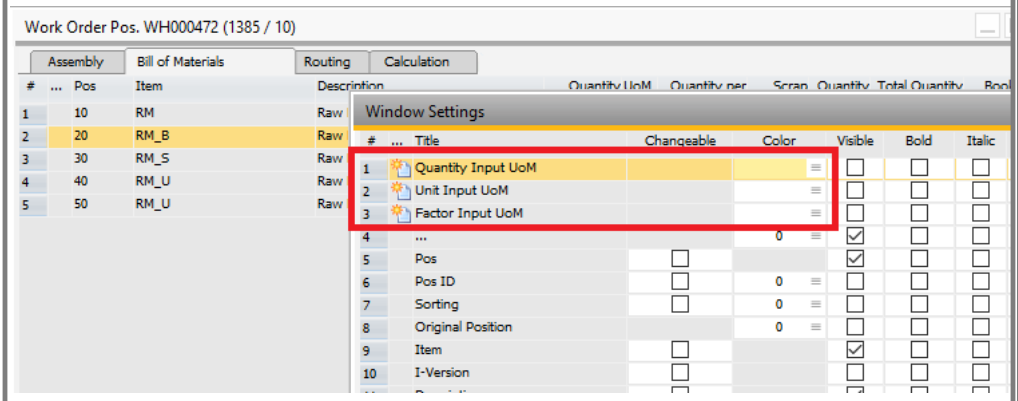
In **Work order > Bill of Materials** the input unit is only changeable:
- if no transaction exists
- a Unit of Measurement Group is defined in the Master Data from this Material

You can choose only UoM if
- Defined in the Unit of Measurement Group
- UoM Conversion exists for this UoM and Inventory UoM

If you change the Input unit, the Quantity will be calculated based on quantity in production UoM and on the Conversion formula defined in the UoM Conversion.
If you change the Quantity in input UoM, the system calculates the quantity in production UoM and in inventory UoM based on UoM Conversion.

If you change the quantity with BeasScript or import hub, the system overwrites the Input Unit with Production UoM.
If you refresh the work order, the system overwrites the Input Unit with Production UoM.

In Work order Bill of Materials you can activate the Input Unit via window settings. But this fields is not changeable.

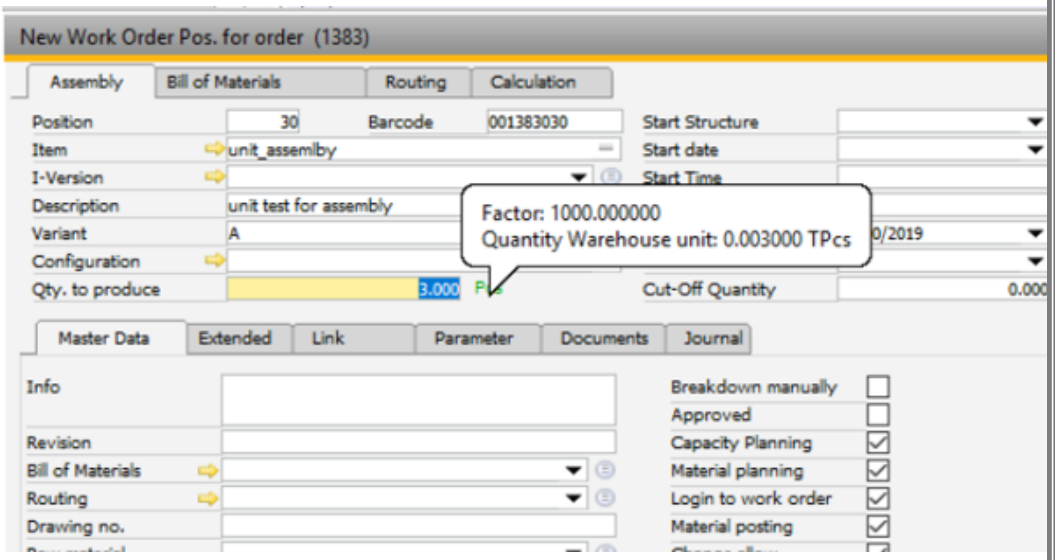


If you change the quantity in Production UoM, the system overwrites the Input unit with Production UoM.

UoM Conversion

If Unit of Measurement Group is defined in the Master Data of this Material, the system tries to use the conversion factor defined in the UoM Group.

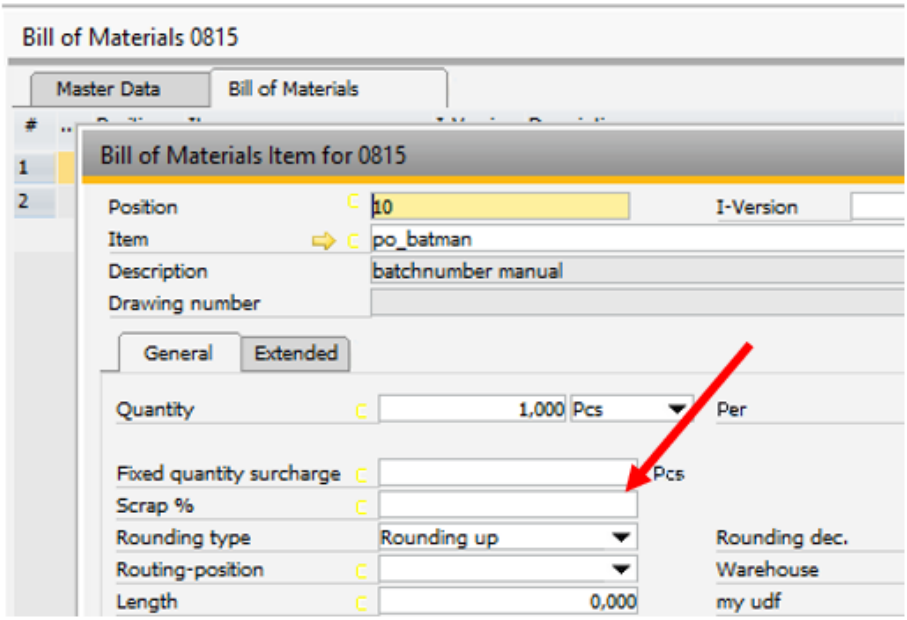
© 2026 Boyum IT Solutions A/S

Field	Description
	If it is not stored there, the system searches the UoM Conversion table. If it does not exist, the system searches the opposite in the same table and creates the formula "1 : [the defined formula] If the opposite does not exist, the system returns an error and continues with Conversion factor 1. **Note on UoM Groups** In Bill of Materials you can define the Quantity in Input Unit. This will be converted in Production UoM and this in Inventory UoM. Problem: If the Production UoM is not the same as the Inventory UoM and the Input UoM is not Production UoM, the system cannot find an entry in the UoM Group. In this case, the system searches for the conversion in the UoM Conversion table to convert the quantity from Input Unit to production Unit. **Unit factor and UoM Tool tip** In the work order position, the system displays the unit in green which means that the unit factor is inside (***see*** image below). Moving the mouse over this field, the system displays a tool tip with information on the factor and the UoM (***see*** image below). The system can calculate with 20 decimals rounded up to 6 decimals for display.  When you change the UoM, the system calculates the Quantity and the factor automatically (***see*** image below). The new Quantity is based on the current production unit.

© 2026 Boyum IT Solutions A/S

Field	Description
	NOTE: This is only possible if a Conversion factor was defined previously). ***Example:*** Conversion: 1 TPcs =1000 Pcs Old Qty = 2000 Pcs Change UoM to TPcs. The System display Quantity = 2 TPcs If the Quantity in TPcs is changed, the system calculate the Production UoM and from this the Inventory UoM If length/width/height, density or item code self is changed, the base quantity is always the quantity in Production UoM and the system always calculates the quantity in the Production UoM and Inventory UoM.
Factor	Conversion factor between entry unit and consumption unit Only in Master Data and Precalculation: Displayed only if consumption unit and entry unit are different. Enter the conversion factor between the quantity indicated here and the consumption unit. Quantity is divided by the indicated factor. 12 decimal places are supported. ***Example*** Quantity 10, Factor 5 Results in a Requirement of 2 in consumption units of the material position per consumption unit if the assembly. Note: The "Exceeding planned quantity allowed" production configuration setting affects the Conversion factor: The Minimum/Maximum percentage is calculated based on total quantity. ***see*** Configuration setting. *BEAS_STL.INPUT_FACTOR*
Fixed Quantity surcharge	Defines a fixed and unique quantity surcharge Share of the surcharge – used for the Precalculation and production. The scrap factor at assemblies relates not the assembly, but only to its material requirement.

© 2026 Boyum IT Solutions A/S

Field	Description
	The scrap is calculated per lot size: ***Example:*** Assembly lot size 500, required 1000, scrap 1 in assembly equals to 1 per 500 = 2 There is a total requirement of 1002 if a material 1x per assembly is required This value will be calculated in production and cannot be changed.
Scrap %	Determines Percentage of scrap Indicate material scrap which is added to the calculated requirement.  Note: This field is visible in Master Data and Precalculation. In Work orders you can see the calculated scrap. Set the formula to be used in the Configuration Wizard. Available formula definitions: `Scrap = Quantity * ( Scrap % )` (= default setting) `Scrap = Quantity / ( 1 - Scrap%/100 )`

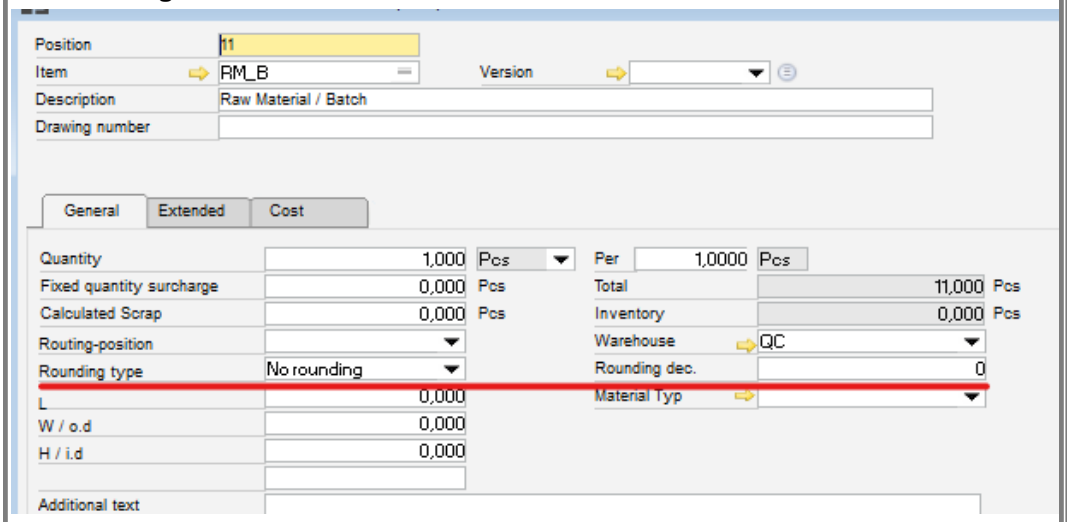
© 2026 Boyum IT Solutions A/S

Field	Description
	Example: Definition with `Scrap = Quantity * ( Scrap % )` Requirement: 10 Pcs Scrap: 10% Total requirement: 11 Pcs Definition with `Scrap = Quantity / ( 1 - Scrap% / 100 )` Requirement: 10 Pcs Scrap 10% Total requirement:
Scrap %	Calculated from scrap values This value is calculated when the work order is created. It cannot be changed; it is a one-time surcharge. (Assembly quantity * BoM quantity) + "calculated scrap" If the assembly quantity is changed, the "calculated scrap" does not change. To re-calculate, a Work order update is required. ***See*** - scrap factors in routing, ***see*** Routing - material scrap - scrap of superordinate assembly or phantom assembly, ***see*** Scrap - offcut factor of superordinate assembly or phantom assembly, ***see*** Offcut factor For purchase parts additionally - scrap as per master data, ***see*** Scrap - off-cut factor as per item master, ***see*** Offcut factor Note: If in BoM position "Do not post scrap" is activated, scrap will not be determined. ***See***: Master data – edit BoM

© 2026 Boyum IT Solutions A/S

Field	Description
	Offcut Option consider offcut
Rounding type Rounding dec.	Determines the rounding rule

The rounding rule can be defined here:



Available settings:

No rounding	There is no rounding defined.
Round up	The number is rounded up. The exact decimal place can be defined in "Rounding Dec." ***Example:*** You have defined 1 piece per 18: the factor is then = 0.055556 If you multiply 0.555556 x (17+1) = 1.000008 After this you apply a round up --> The final result is 2.
Round off	
Rounding at 5	From 0,5 (1 Decimal place) or 0,5 (2 Decimal places) will be rounded up. Lower will be rounded off ***Examples:***

© 2026 Boyum IT Solutions A/S

Field	Description

Requirement	Decimal place	Rounded
1,45	2	1,45
1,45	1	1,50
1,45	0	1,00 Note: Only the last decimal place is considered. Thus, there is no rounding up of the second decimal place.
1,49	0	1
-1,5	0	-2
-1,45	0	-1
-1,45	1	-1,5

multiple of	Always the multiple will be formed, which will be indicated in "Rounding Dec." ***Example:*** Multiple order of 4 4, 8, 12, 16 is counted At quantity 3 is rounded to 4 At quantity 4 the quantity 4 remains unchanged At quantity 5 is rounded to 8 ***Example:*** Multiple order of 10 10,20,30,40 is counted At quantity 1 is rounded to 10 At quantity 10 the quantity 10 remains unchanged At quantity 11 is rounded to 20

Example 1:

A palette per 100 pieces is required

Quantity of requirement corresponds 0.01 palette per piece. But at least one palette

© 2026 Boyum IT Solutions A/S

Field	Description
	has always to be required and from 101 pieces even 2 palettes. The BOM position will be adjusted as following for this: Quantity: 0,01 Rounding type: multiple of Rounding Dec. 100 ***Example 2:*** A half piece is required. because there is no half piece. It must always be rounded up to 0 decimal place because there is no half piece. Thus a requirement of 0,8 will actually be rounded up to 1 piece. The following setting occurs: Rounding type: round up Rounding Dec: 0 Note: Negative statement of decimal places are not supported. Rounding results are always in Inventory UoM.
Routing-position	Determines the routing position for which the material is required For backflushed material, the material is issued on receipt of this routing position. The MRP run and APS consider the start date of this operation when calculating the material requirement. **Phantom assembly group:** Routing-assignments work with restrictions for nested phantom assemblies: The routing assignment of the above located main assembly group always applies instead of the phantom assembly group assignment within a sub-phantom assembly group. **Master data:** Which routing is to be used can be defined in the BOM. The routing with the same ID will be used if none have been defined. A checking of the assignment is not possible because a routing can be assigned to multiple Bill of materials. The assignment will not

© 2026 Boyum IT Solutions A/S

Field	Description
	be checked even at a change of a routing. **Production:** Assignment is always done at the routing of the current production position.
Total	Calculated total quantity in Inventory UoM Only in Work order Bill of Material window More information see concept "Total Quantity"
Inventory	Current Inventory in Inventory UoM on Warehouse, which defined in field "Warehouse". Only in Work order Bill of Material window

Warehouse	Default warehouse for planning and backflushing
	If a warehouse is specified, the material is issued from this warehouse by default when backflushing. Warehouse information is mandatory.
	You can choose any warehouse defined for this item, and active on item-warehouse side and active on warehouse side.
	It is allowed to select a warehouse, which is locked for issue transactions.
	
	MRP checks the warehouse defined in the BoM Position.
	Precalculation: It is possible to select locked warehouses.
	
	If the material position is an order-related sub-assembly, the system creates a new work order position for this sub-assembly but does not take the warehouse from the Bill of materials position.
	For the new work order position, the system uses the standard rules for warehouse definition. ***See*** warehouse rules.
	Example:
	Assembly A, default Warehouse 01
	BoM Order-related Assembly B, default Warehouse = 01, Bill of Materials Warehouse 07
	
	If you create a work order:
	`Work order Position 10: Assembly A = Warehouse 01`
	`Bill of Material Position 10: Warehouse 07`
	`Work order Position 20: Warehouse 01`
	
	Note: At "Production backflushing" you can specify an issue warehouse which has a

© 2026 Boyum IT Solutions A/S

Field	Description
	higher priority. ***See*** Production backflushing
Bin Location	Bin location number - available for bin-managed warehouses. Only valid "Bin Locations" for the selected warehouse are allowed. After changing the warehouse, the bin location content is set to empty in this field. **Work Order BoM and Precalculation:** A work order created from an Item, or Precalculation copies this field automatically for the BoM. If there is not enough stock to pre-assign quantities from this, pre-defined bin location, Beas continues to pre-assign them from further bin locations based on the sorting rules.
Length Width / OD Height / ID	Length, width, height or outer/inner diameter Determines the measurements of the materials. The requirement of the consumption unit can be indicated. The required quantity in warehouse unit can be defined in Quantity unit - Conversion The measurement can be indicated in the conversion. e.g. Requirement: 100mm (Consumption unit) Conversion to piece: 1 piece = 1000mm A requirement of 0.1 piece is then determined.
Completed	Production: defines the position as "completed" It is set automatically according to the settings if the default quantity has been reached. The completed BOM positions are no longer considered in the material requirement list and MRP.
Info	Any information This field is unnamed in the basic installation. The name of the field can be configured in **Configuration Wizard > Master Data > Bill of Materials > View > Info Field**.
Closed	Close this Bill of Materials position

© 2026 Boyum IT Solutions A/S

Field	Description
	Only available in Work order Bill of Material position Displays if the Position is closed or not if this position not closed, you can close this position If you want to reactivate this Bill of Material position, you must choose "right mouse click" – "Position re-activate"

7.5.1.1.1.2 Extended

Bill of materials

Edit BoM

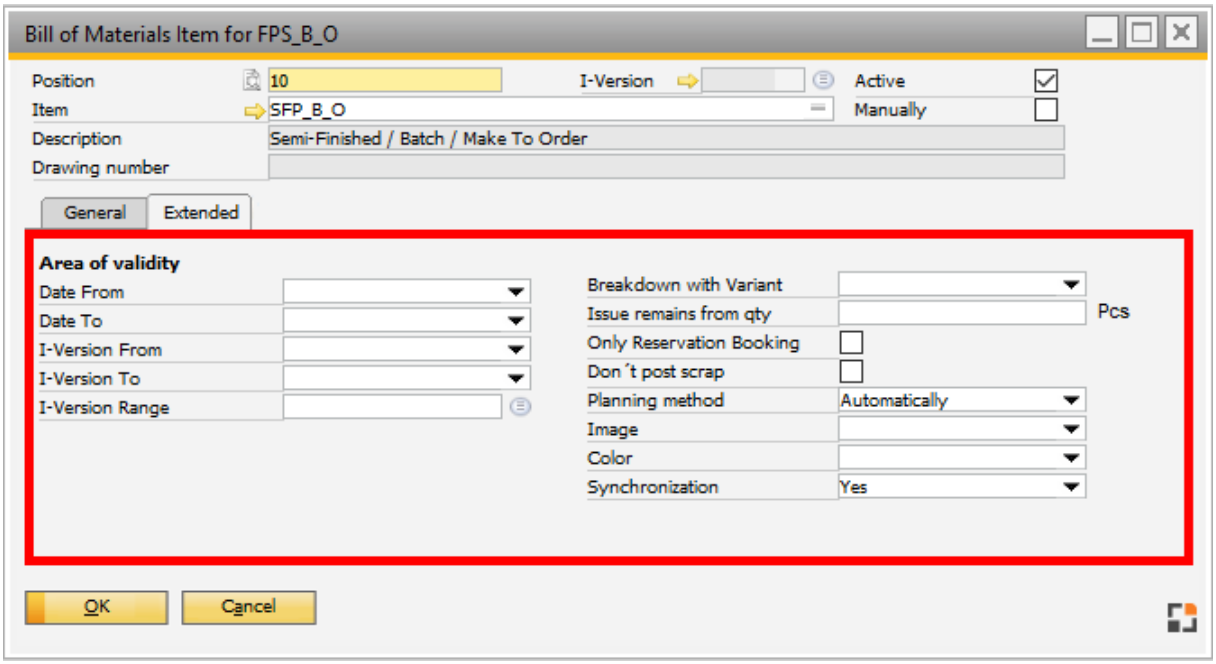
BoM positions

Edit BoM positions

BoM position - General

BoM position - Extended

BoM position - Costs



Area of validity

© 2026 Boyum IT Solutions A/S

Valid from / valid to	Time domain, in which the BoM position is valid
I-Version from	Only valid for items with an I-Version from... (alphanumeric) ***See*** Item master – I-Version.
I-Version to	Only valid for items with an I-Version to.
I-Version range	Only valid for items with I-Version within. Note: This field is not considered when running the Used in report.

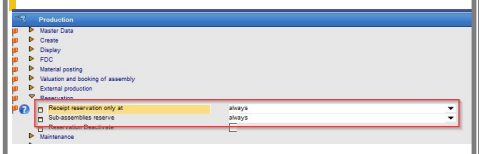
© 2026 Boyum IT Solutions A/S

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

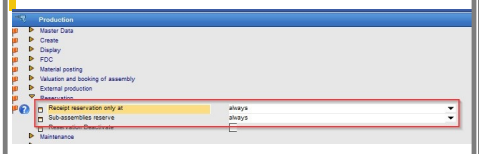
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

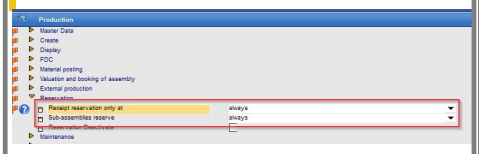
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

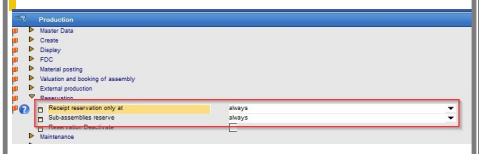
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

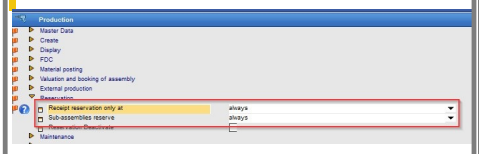
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

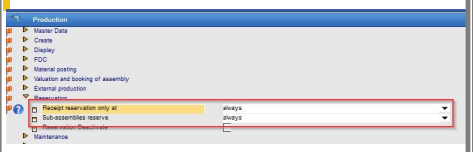
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

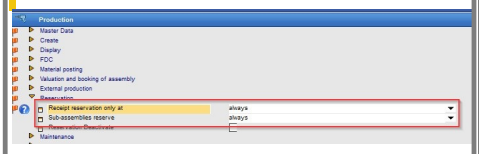
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

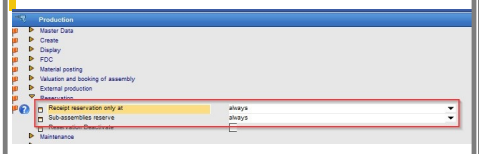
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

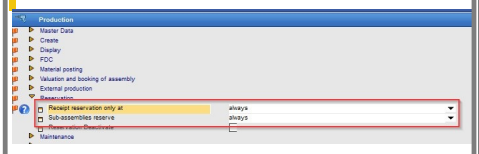
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

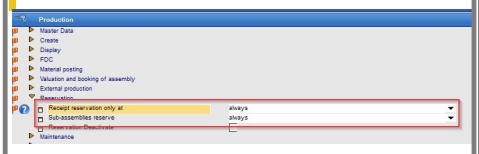
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

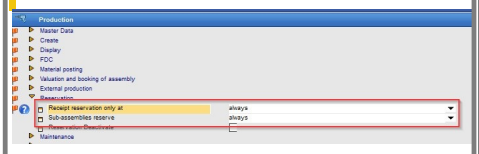
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

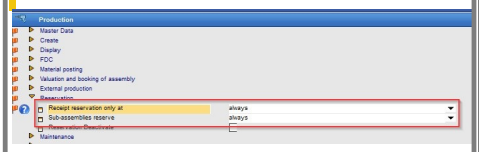
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

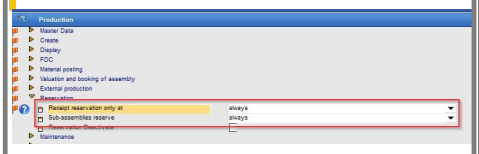
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

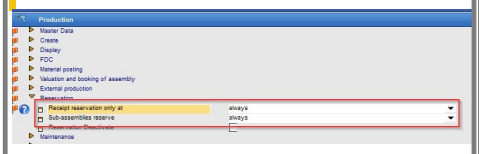
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

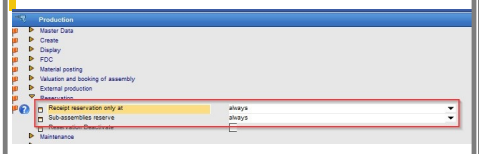
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

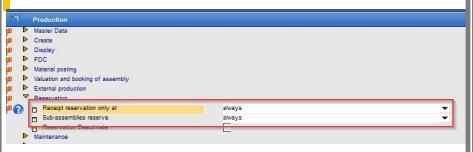
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

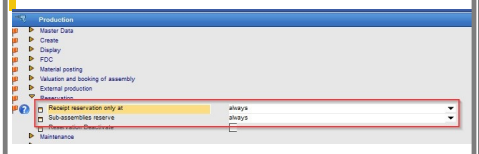
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

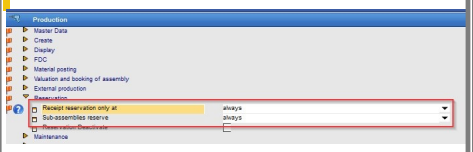
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

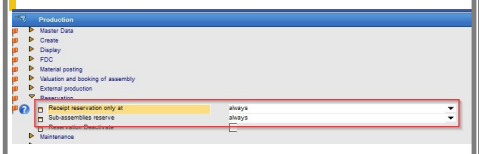
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

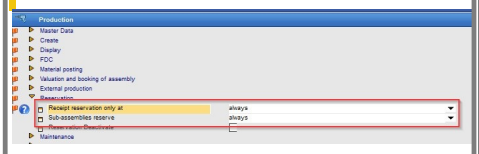
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

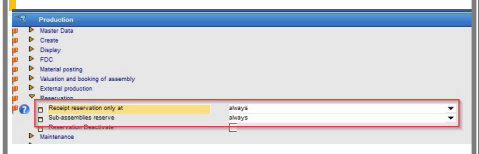
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

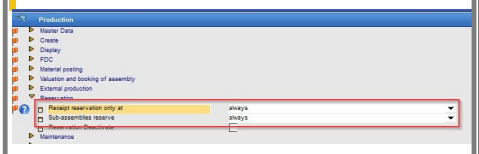
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

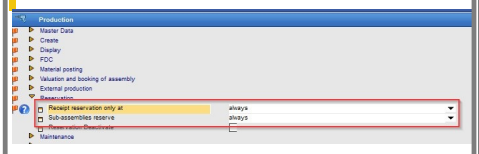
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

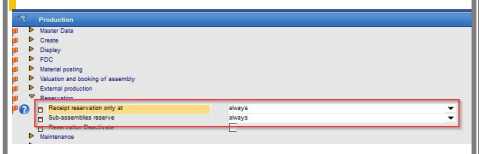
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

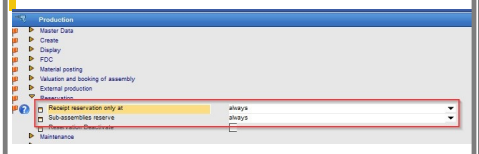
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

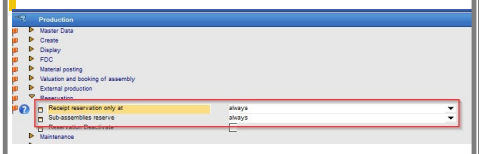
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

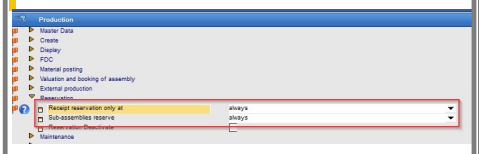
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

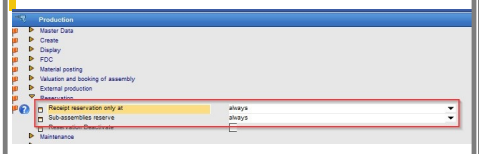
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

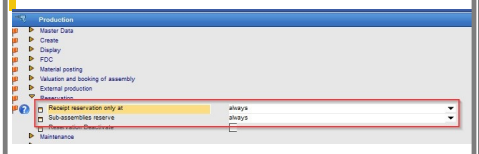
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

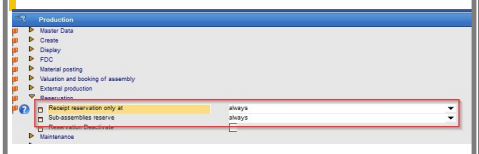
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

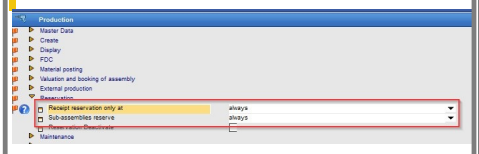
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

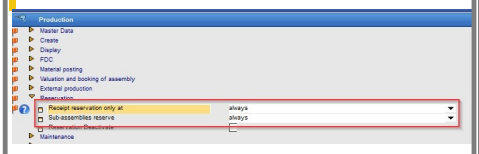
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

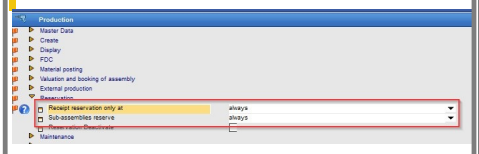
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

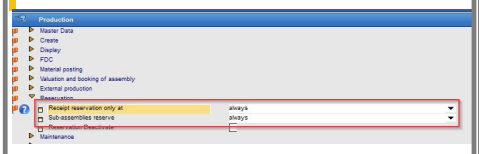
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

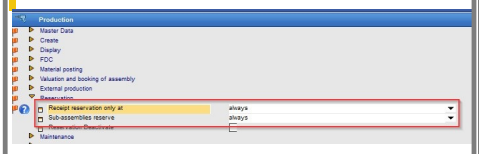
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

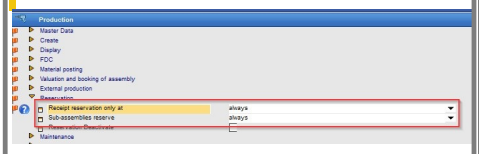
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

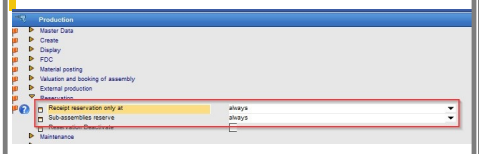
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

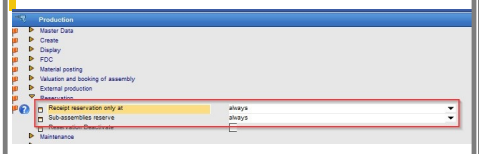
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

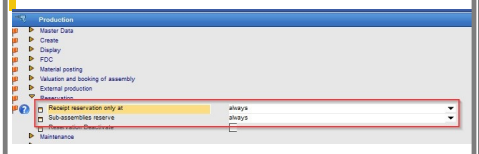
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

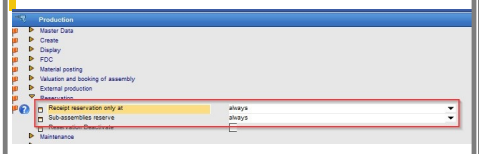
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

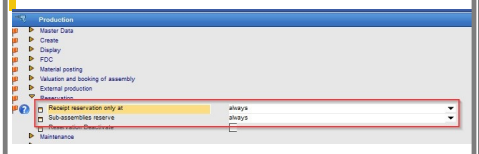
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

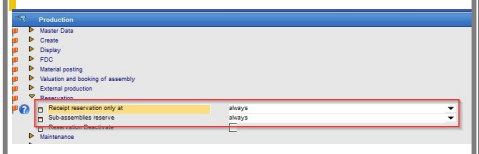
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

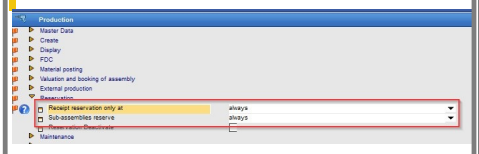
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

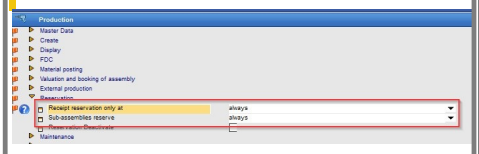
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

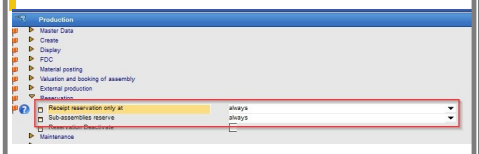
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

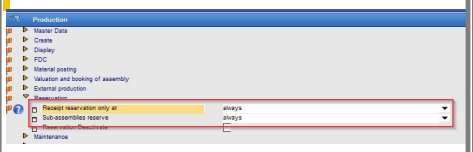
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

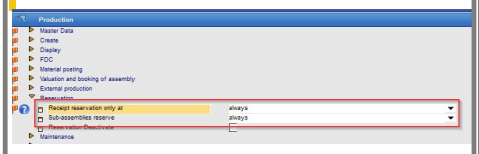
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

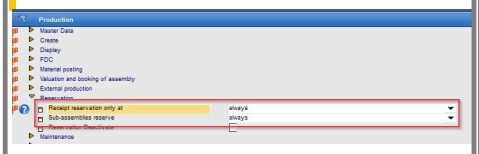
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

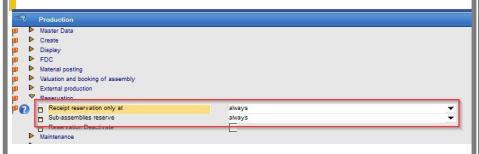
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

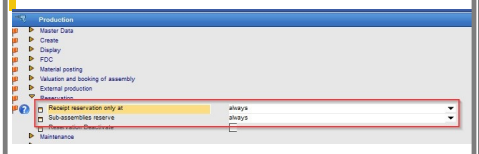
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

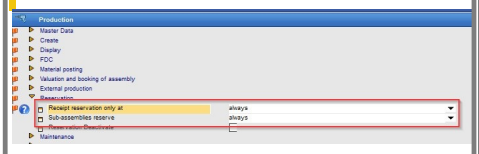
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

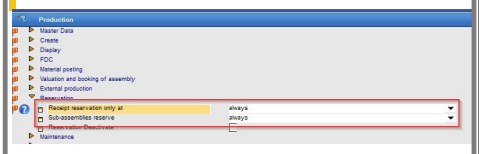
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

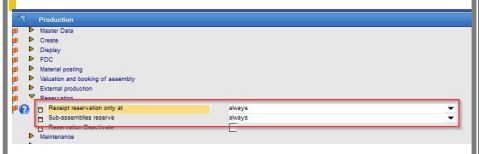
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

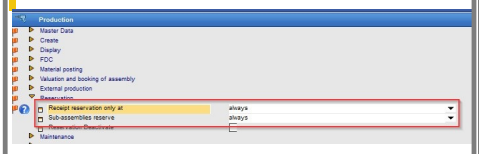
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

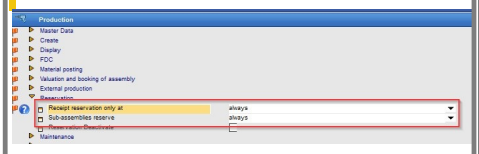
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

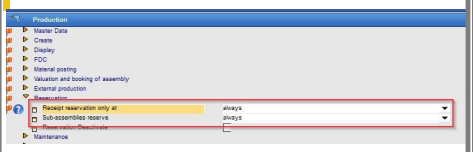
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

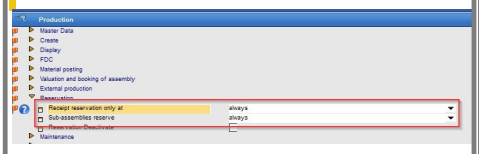
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

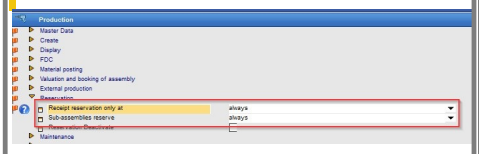
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

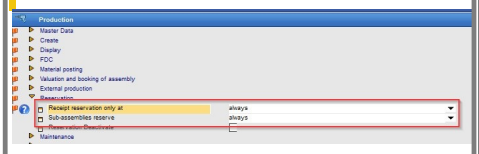
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

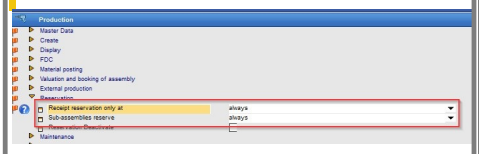
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

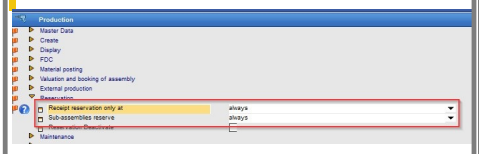
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

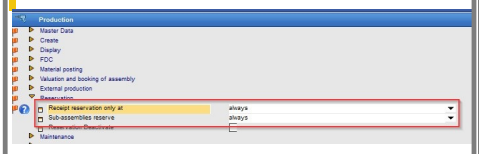
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

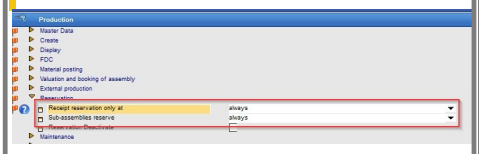
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

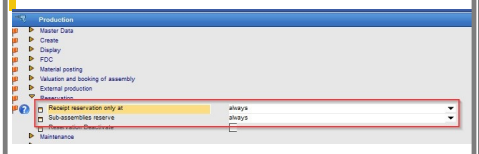
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

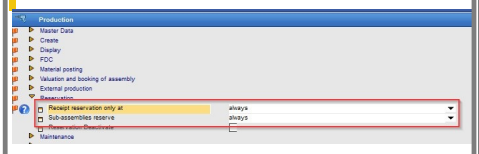
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

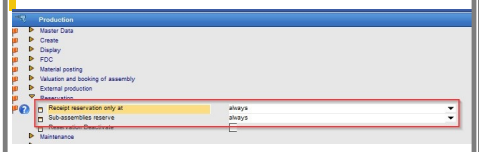
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

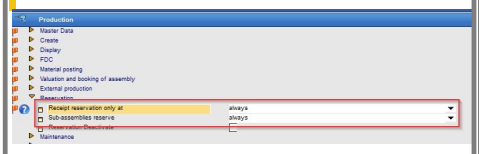
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

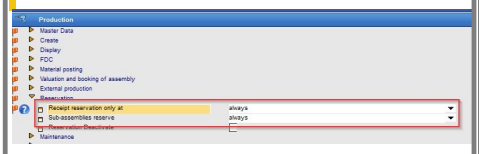
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

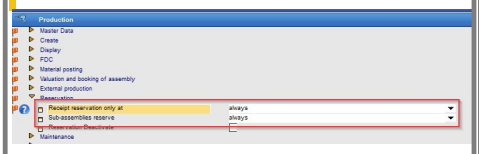
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

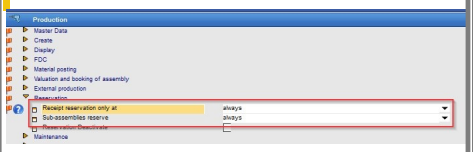
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

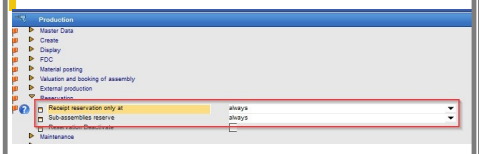
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

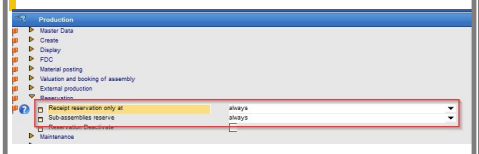
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

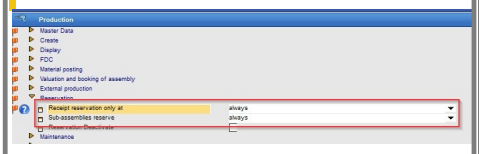
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

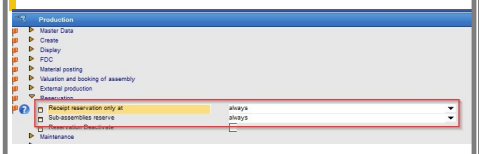
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

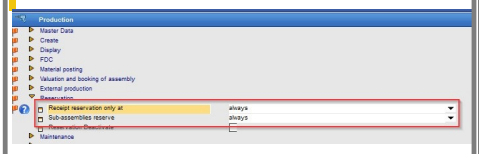
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

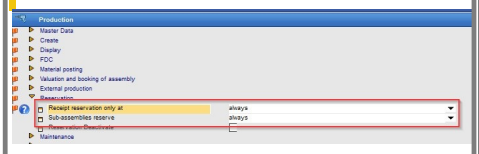
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

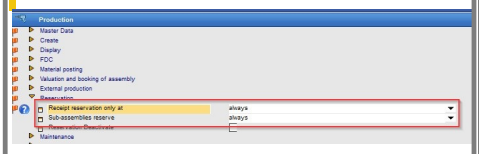
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

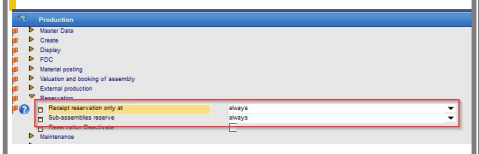
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

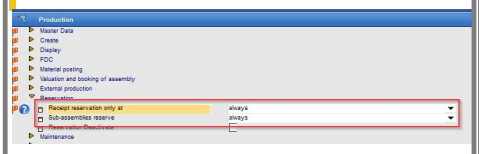
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

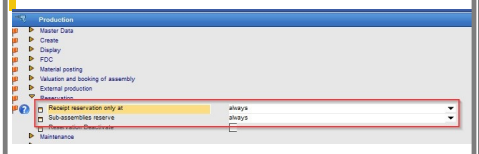
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

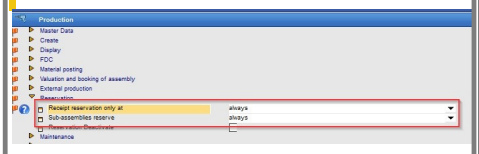
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

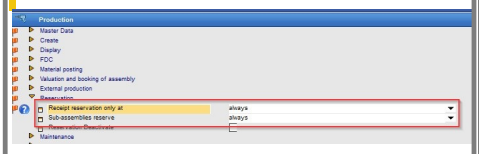
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

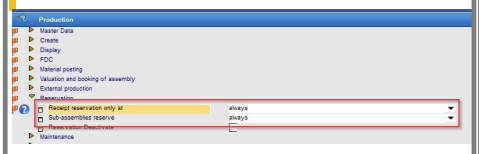
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

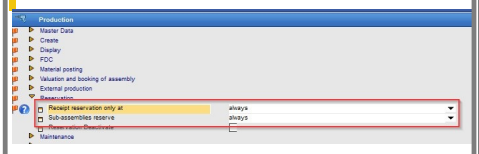
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

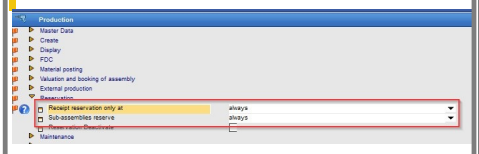
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

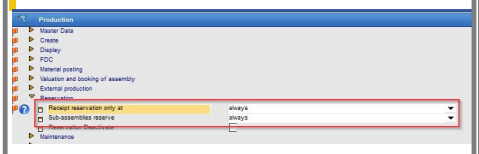
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

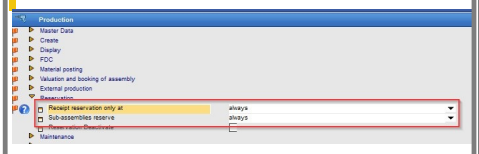
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

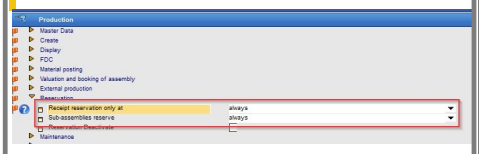
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

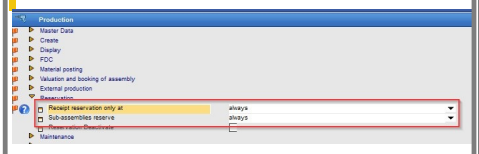
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

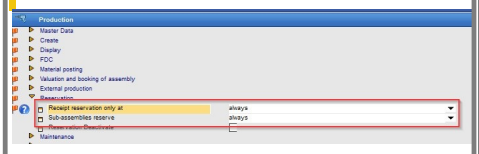
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

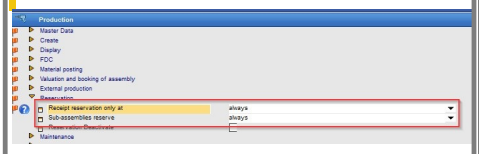
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

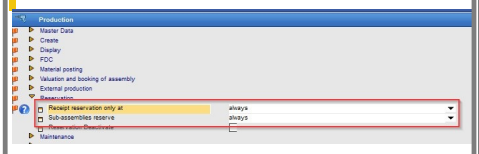
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

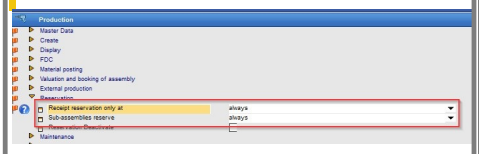
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

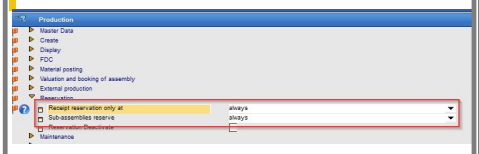
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

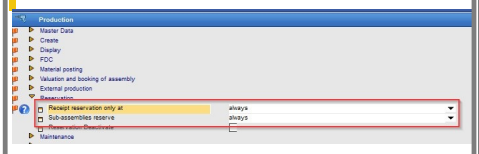
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

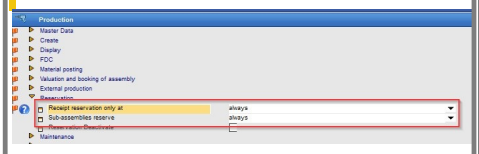
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

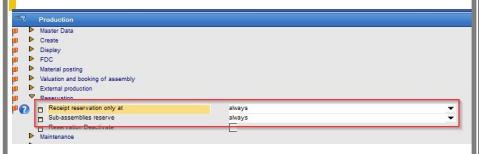
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

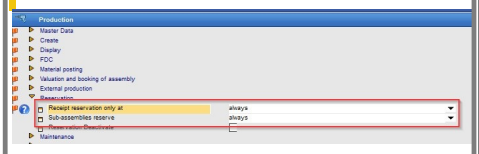
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

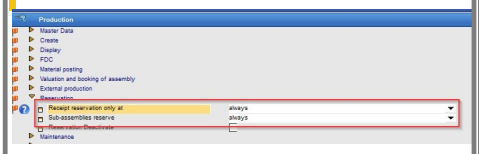
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

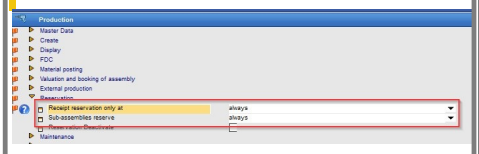
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

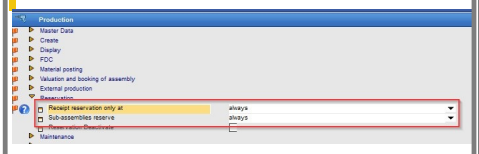
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

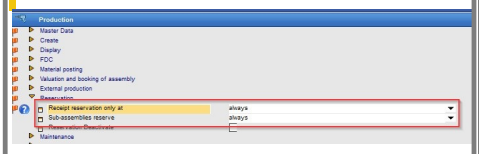
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

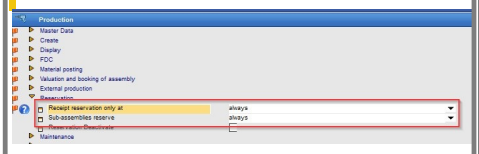
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

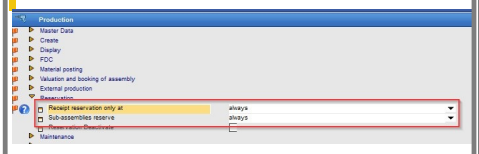
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

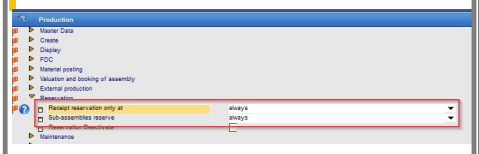
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

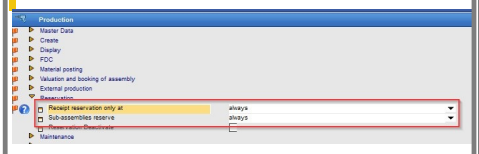
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

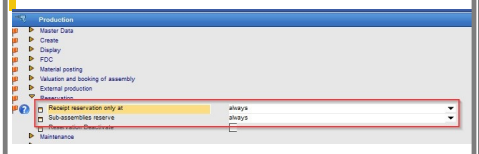
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

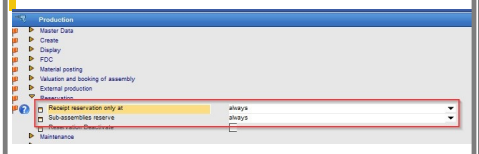
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

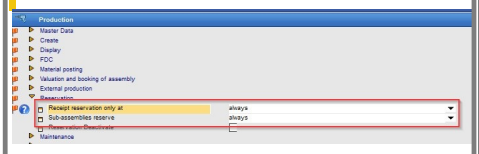
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

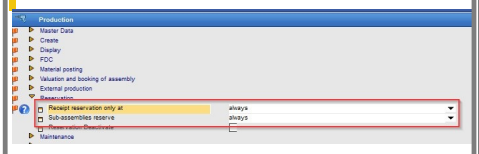
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

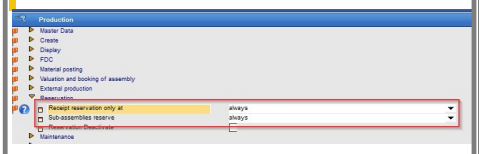
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

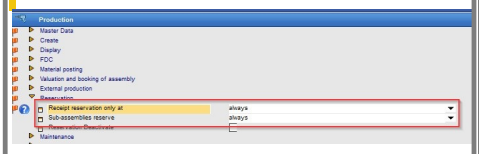
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

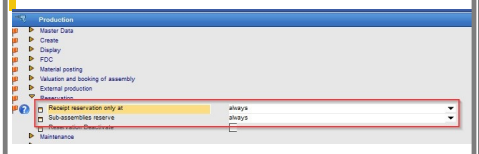
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

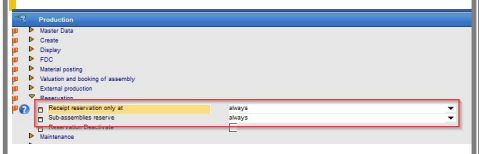
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

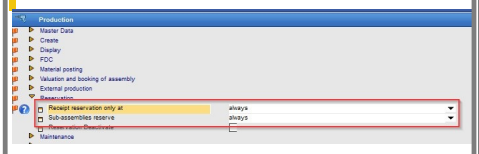
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown	Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

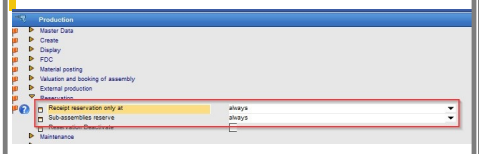
Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order.

Note:

It only functions if reservation system is active.

Receipt reservation only at = always
Sub-assemblies reserve = always



Example: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

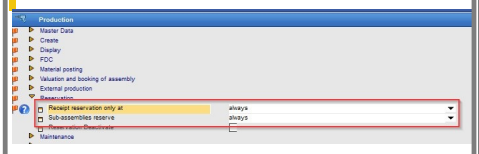
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

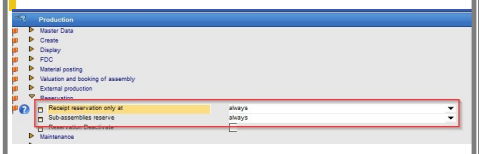
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

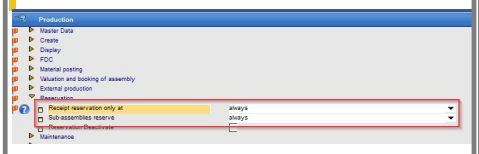
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

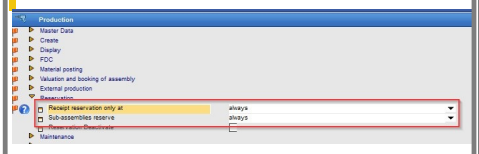
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

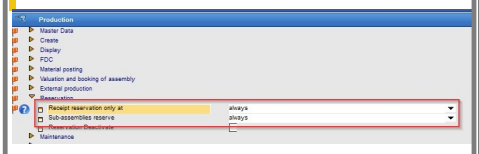
© 2026 Boyu

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

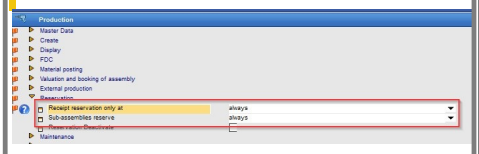
Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

Breakdown

Here it is decided whether sub-assemblies should be included in production or not.

With this option you can change a stock-related item to order-related item for this Bill of materials position.
Only in Bill of Materials (Master Data); it is not available in Precaclulation or Work order.
Only displayed if the material is a stock-related item.

Work order creation

Setting	Description
no	The Sub-assembly is not produced (stock-related production).
always	The Sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order-related inflow. Manufacturing lot size is not considered (order-related).
Only shortage	Sub-assembly is created only in case the requirement for the work order cannot be covered from stock. For this purpose, stock will be reserved for the work order. Note: It only functions if reservation system is active. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used

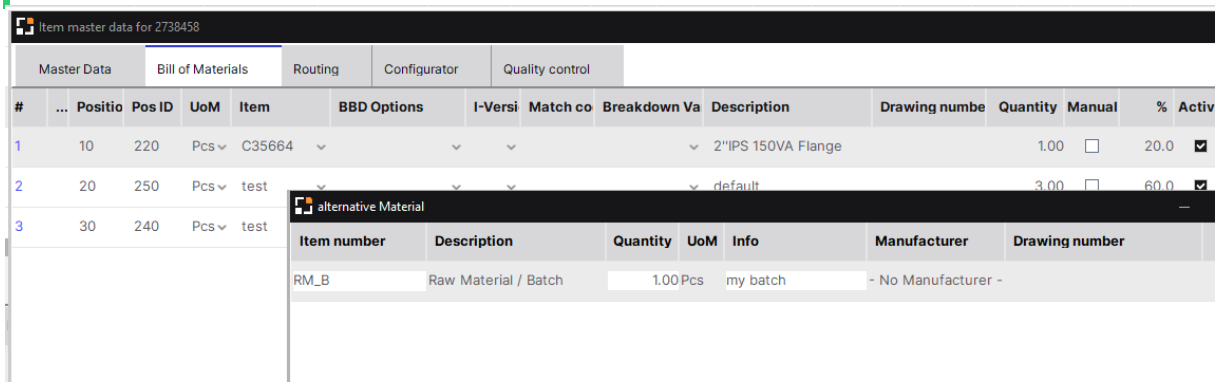
© 2026 Boyu

7.5.1.1.2 Alternative material

Bill of materials
Edit BoM
BoM positions
Edit BoM positions
Alternative material
Cross reference
BoM Batch change
Difference BoM
Copy BoM

You can insert alternative materials in the BoM of each item. You can define for example, that instead of 1 item of type A, 2 items of B may be used.
If a BoM position is opened, with right-click on the item number the item can be replaced.

PATH: Inventory > Item master data > Bill of materials tab > right-click a BoM position > select "Alternative material"



WIndow artikel_stlpos_alternativ.psr

Field descriptions

Field	Description
Item number	Item code
Description	Description
Quantity	Add default quantity for this alternative material.
UoM	Unit of measure
Info	Additional information on the alternative material
Manufacturer	Manufacturer code

© 2026 Boyum IT Solutions A/S

Field	Description
Drawing number	Drawing number

If you have deposited alternative items, these are displayed in the tree view with the replacement-icon. Click on this icon to open the selection screen in which alternative items are displayed. If you select a position, the item and the quantity is changed in the BoM.

Alternative material is displayed directly in the work order structure view as well as in the item structure, if the position is not completed and proper editing rights are granted. The item can be changed directly. Here, the quantity and the material is exchanged.
Important:
- If the exchanged material is an order-related assembly, there is no resolution of its material.
- Item Version current not supported

Note on Data configuration

Not saved in a separate data base table, but in BOM data field "BEAS_STL"."ALTERNATIVMATERIAL" with the configuration.

```
Itemcode [tab] Info [tab] Quantity [LineFeed]
```

The alternative material can be synchronized or can be imported vie the Integration Hub.

See

Bill of materials

WO structure BoM

7.5.1.2 Cross reference

Bill of materials

Edit BoM

BoM positions

Edit BoM positions

Alternative material

Cross reference

BoM Batch change

© 2026 Boyum IT Solutions A/S

Difference BoM

Copy BoM

This window displays in which item or item version the Bill of materials list is used.

This window can be called up via **Bill of materials (header) > right-click:** / **Cross-reference**.

Window settings and Templates are supported. Authorization: Item BoM *(artstl)*

Field	Description
Item	Item which contains the Bill of materials.
I-Version	The item version. If item administration has been set to "separate BoM", only the entry in the item version will be checked, otherwise it is only checked, whether BOM ID and item ID do match. For a cross reference you do not need an item version.
Description	Description of the item or item version.
Version status	Status of the I-Version.
Status Description	Long description of the status.
Release	Is the item version released.
Blocked	Is the item version blocked.
Changeable	Is the item version changeable.

7.5.2 BOM Batch change

Bill of materials

Edit BoM

BoM positions

Edit BoM positions

Alternative material

Cross reference

BoM Batch change

Difference BoM

Copy BoM

© 2026 Boyum IT Solutions A/S

PATH: Bill of Materials > batch-managed item > right-click > "Bill of Materials: Batch changes".

This function allows to change multiple BoMs simultaneously. First, select the change type and the material number to be replaced in the BoMs. This is done under tab "Substitute". Under "Add", new information are displayed.

By clicking "START", all affected BoM positions are displayed. Mark positions to be replaced/removed and click START again to start the process.

NEW: From version 9.3 PL2 this window allows to work with version-controlled items. This means that the values of items with separate Bill of materials can be updated massively. To cover this new functionality a new column is added with version information.

IMPORTANT: if one item has different version and some of its versions are linked to the main definition, these lines will be shown once with the main definition (Without any version number).

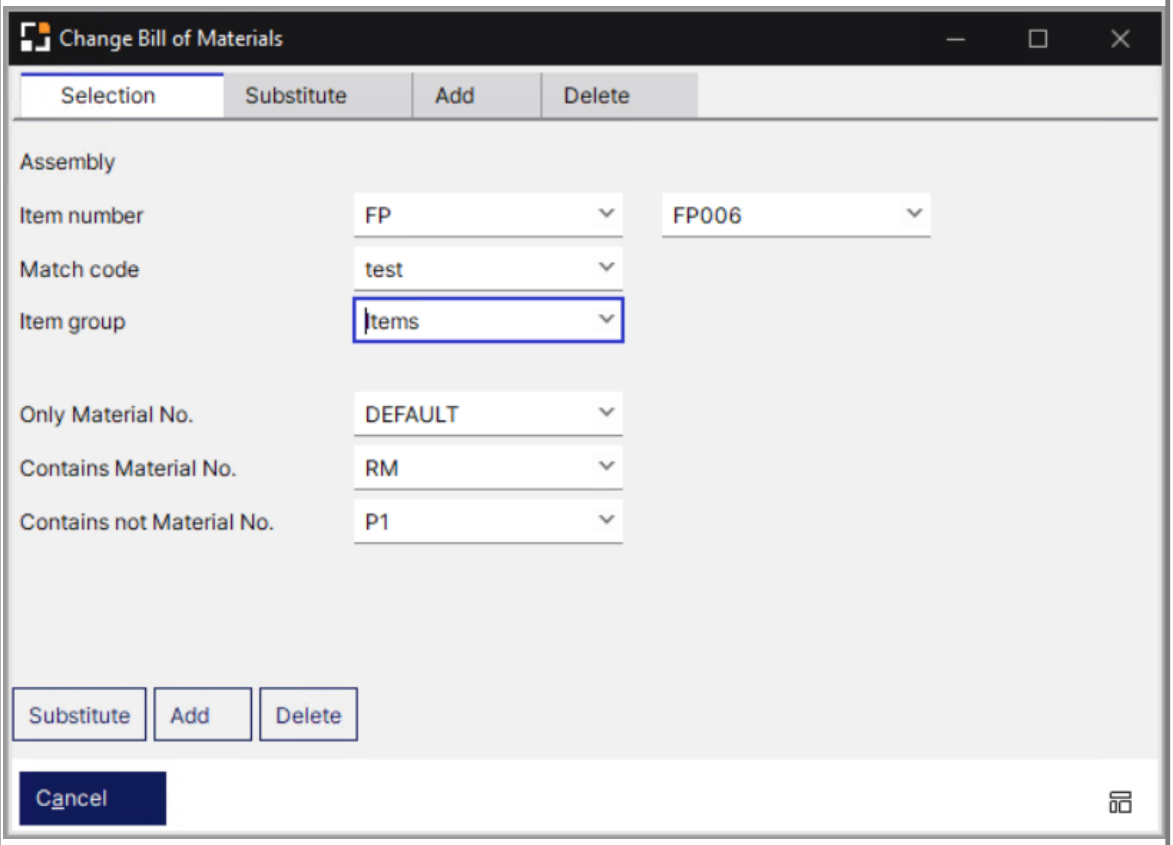
The tabs and the switch on the bottom of the window provide the same function.

Function	Meaning
Selection	Filter options by: Item number, item group, match code. Conditions such as "Only material no.", "contains" or "contains not" are available in the selection fields.
Substitute	In the right, you can select window positions for value replacement. On the left side, the new information is entered for the appropriate fields. All BoMs with the specified material number can be changed. In the selected fields (material number, quantity, additional text, etc.) the values stored here are inserted. After finishing all entries, the replacement process is started by clicking "Start".
Add	Select items to be added to the BoM. Upon selection, the item report is displayed. Data to be entered are displayed on the left side. Then new BoM is inserted wherever the previously defined material number exists. Items will be appended or inserted at the specified position. In the latter case the previous item is replaced.
Delete	Display BoM items to be deleted.

Selection tab

Select the filters to narrow down the set of BoM to change.

© 2026 Boyum IT Solutions A/S

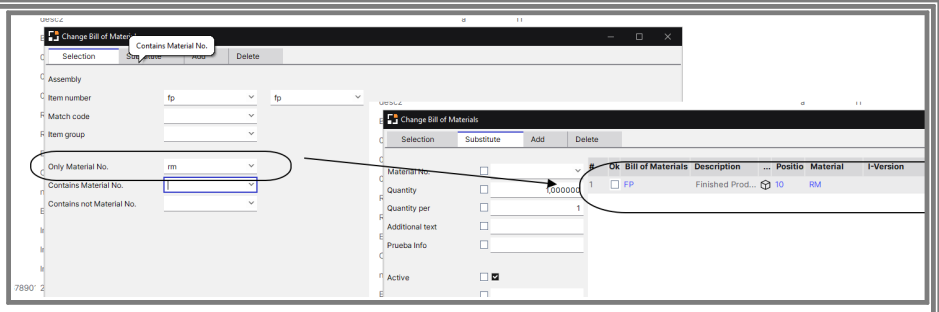


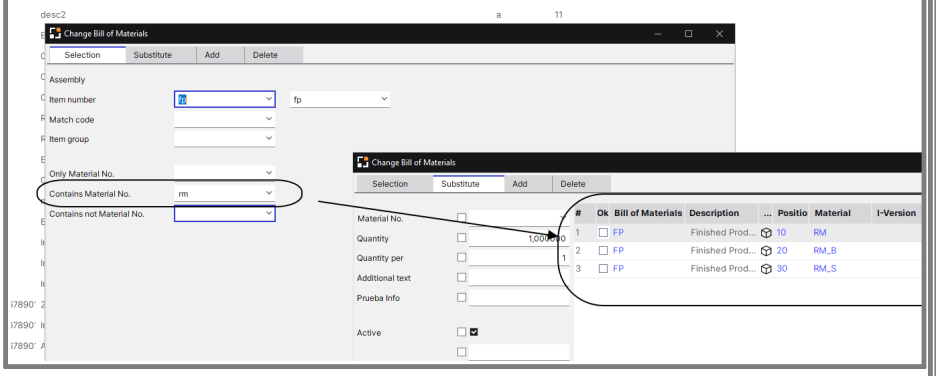
Window artikel_stlpos_batch.psr

Field Descriptions

Function	Description
Assembly	
Item number	Item number from-to: select a range between two item numbers to be filtered
Match code	Select match code
Item group	Select item group
Only Material No.	With this filter defined, the system will display only the selected material in the Substitute tab. ***Example:*** We have item FP that contains 3 materials RM, RM_B, RM_S. if we apply filter by material "RM" system will display 1 only line:

© 2026 Boyum IT Solutions A/S



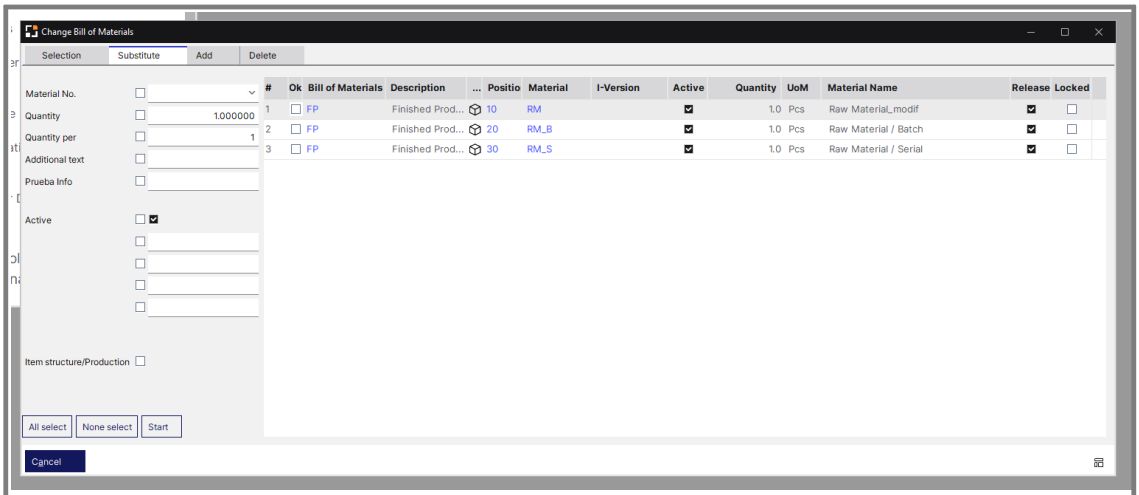
Contains Material No.	With this filter the system will display all materials related to selected item. ***Example:*** We have item FP that contains 3 materials RM, RM_B, RM_S. if we apply this filter with material "RM", the system will display 3 lines with each material: 
Contains not Material No.	This filter definition applies the exact opposite behavior to "Contains material no." that is, the system will not display any materials related to the selected item.

Buttons:

Substitute: This button opens the "Substitute" tab to start replacement of the selected BoM.
Add: This button opens the "Add" tab to add materials to the selected BoM.
Delete: This button opens the "Delete" tab to remove materials from the selected BoM.

Substitute tab

© 2026 Boyum IT Solutions A/S

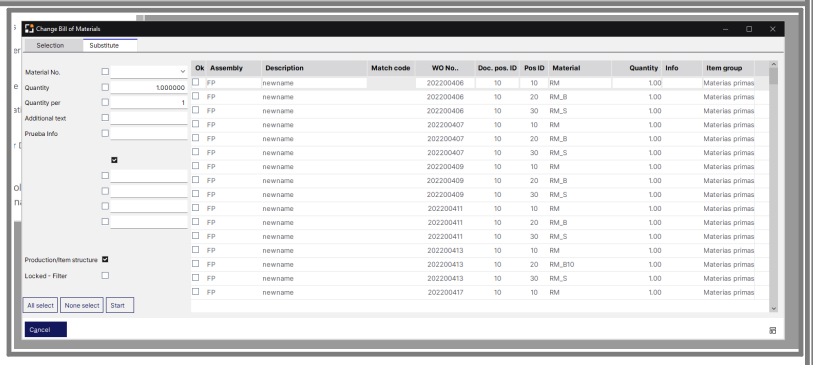


Window artikel_stlpos_batch.psr

Field descriptions

Field	Description
Material number	Select item number to insert.
Quantity	Add quantity to insert. Note: Changing the quantity, conversion factors are not considered. Quantities are specified in Production units, stored conversion factors will be removed to Input Unit and warehouse unit. (The fields beas_stl.input_qty, input_factor, input_unit will be deleted).
Quantity per	Requirement per assembly ***See*** quantity per.
Additional text	Free text.
Active (left and right box)	Left box: Set check marks to select this parameter to be changed. Right check box: Enable to set the BOM item to active. Disable to set the BOM item to inactive.
UDF 1-4	Free user-defined fields can be named in the Configuration wizard.
Ok	Selecting source item, then select "OK" at the items to substitute. Clicking the "Start" button will perform the replacement.
Production/Item structure	When check box is activated, the list shows production information. When unchecked, the list displays the item structure (***see*** above).
Locked - Filter	Visible when "Production/Item structure" field is active.

© 2026 Boyum IT Solutions A/S

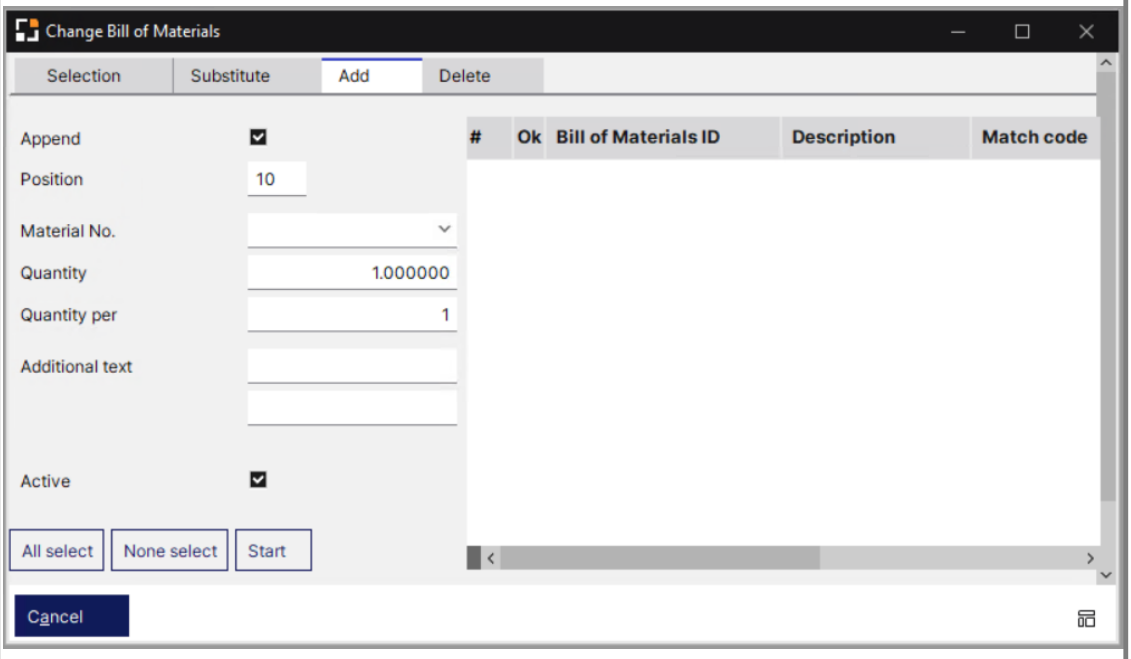
Field	Description
	 Activate check box to hide locked Work orders. When unchecked, the WO list displays locked WOs.

Buttons:

All select: Clicking this button selects all items in the list to substitute (all "OK" fields are selected).
none select: Clicking this button clears all item selections (all "OK" fields are cleared).
Start: Clicking this button starts the mass replacement.
Right-click: **Change Log** - open the Change log for this BoM.

Add tab

In this tab you can add more materials to the selected BoM.



Window artikel_stlpos_batch.psr

© 2026 Boyum IT Solutions A/S

Field descriptions

Function	Description
Append	When this check box is active, "position" field is ignored and new position ID will be generated and added at the end of existing BoM.
Position	The new item will inserted at the given position.
Material number	Selected material number for which the change applies.
Quantity	Selected quantity.
Quantity per	Requirement per assembly ***See*** quantity per.
Additional text	Free text.
Active	Check mark indicates whether the BoM items will be active or inactive after the change process. The status is changed in the "replace" tab (***See*** above).
empty fields UDF	Free user-defined fields can be named in the Configuration wizard.

Delete tab

In this tab you can delete BoM items. Select materials from the list, and press **Start**.

back to Bill of Materials tab

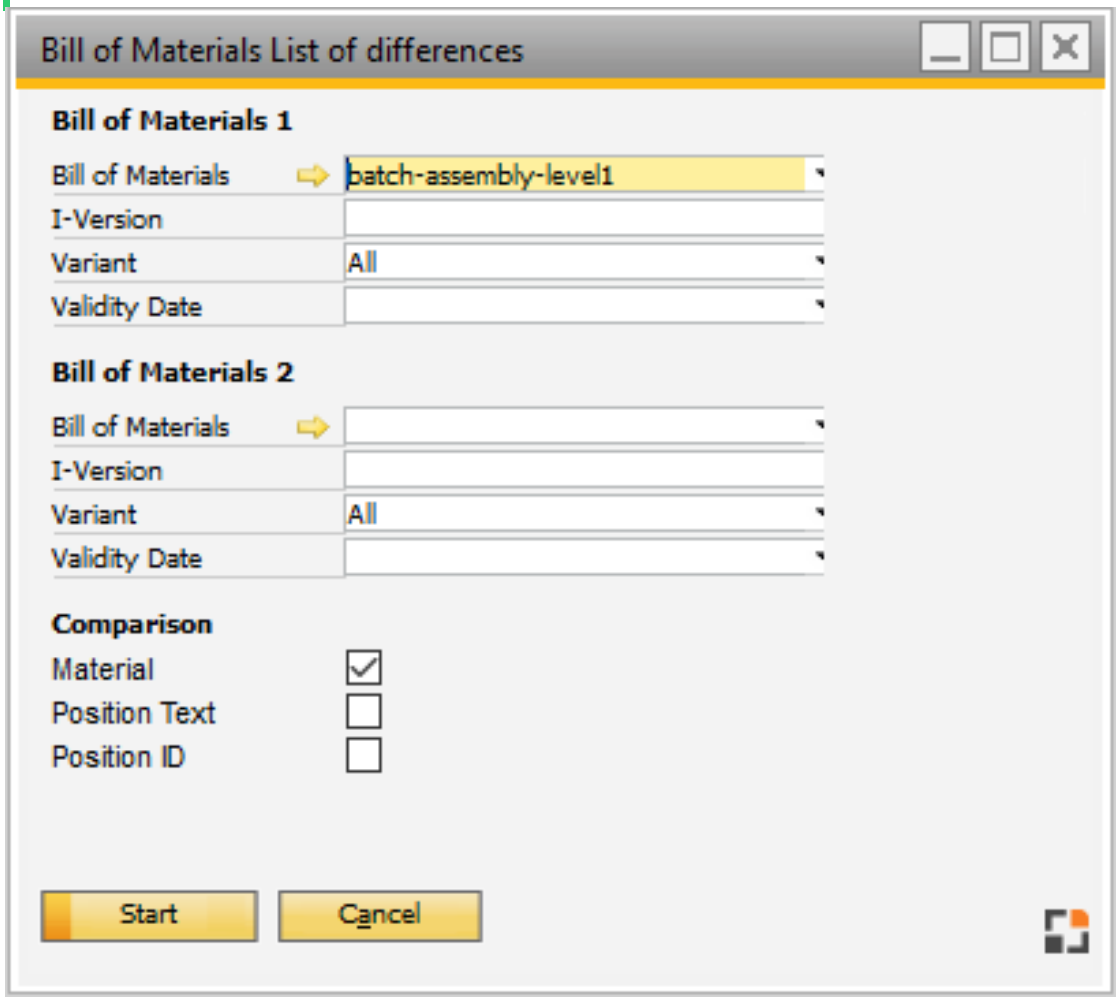
7.5.3 Difference BOM

Bill of materials
Edit BoM
BoM positions
Edit BoM positions
Alternative material
Cross reference
BoM Batch change
Difference BoM
Copy BoM

Comparison between two Bill of materials, or two Bill of materials versions, or two validity periods, or two variants (A-Z). All fields are compared.
After filling the selection fields, click "START" to create the list of differences
Reading rights for Editing Bill of Materials are required.

© 2026 Boyum IT Solutions A/S

PATH: Bill of Materials window > right-click an entry > "Bill of Materials list of differences" function.



Window artikel_stlpos_differenz_start.psr

Field	Description
Bill of Materials 1	
Bill of Materials	BoM to be compared.
I-Version	Select which I-Version of the BoM is to be compared. If an I-Version - period of validity was stored in BoM, you can determine which I-Version of BoM to use for the comparison. Thus, you can compare version within one BoM.
Variant	Select the variant (A-Z) of BoM for comparison.

© 2026 Boyum IT Solutions A/S

Validity Date	Select the period of validity of the BoM item for comparison.
Bill of Materials 2	
Bill of Materials	BoM to be compared with BoM 1. When comparing I-Versions, variants or validity periods, they may be identical.
I-Version	I-Version for comparison.
Variant	Variant for comparison.
Validity Date	Period for comparison.
Comparison	
Material	Compare material positions, that means, even if the position number does not match, but only the material numbers, a comparison is possible. **Important:** if you work with BOMs containing the same material numbers twice, the comparison will return false results.
Positions Text	Use position text field for comparison.
Position ID	Use position Id for comparison.

Resulting list of differences

Results window supports Window settings.

All determined differences in column "Differences" are displayed as comma-separated text.
If an entry was found in one BoM that does not exist in the other BoM, it will be displayed as "not available" at "difference".

Use scripts to fill template fields.

BoM comparison process:
Select an item - right-click: "Bill of Materials: List of differences" - enter a second item number. (***See*** image above.)
After clicking "Start", a table with both items and the differences in BoMs are displayed. Window settings are supported. Columns can be selected and sorted.

back to item structure

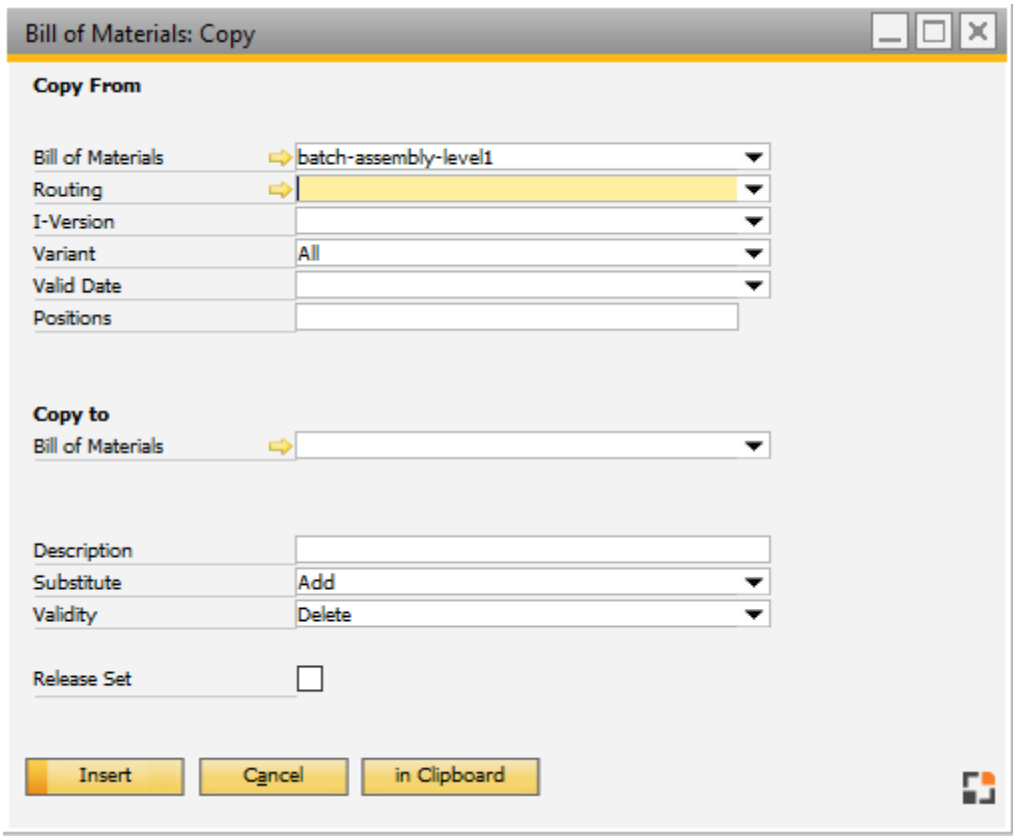
© 2026 Boyum IT Solutions A/S

7.5.4 Copy BOM

Bill of materials
- Edit BoM
  - BoM positions
    - Edit BoM positions
      - Alternative material
  - Cross reference
- BoM Batch change
- Difference BoM
- **Copy BoM**

Use this function to copy the BoM and /or the routing to another item or to several other items.

PATH: item structure > right-click > Duplicate: XXX item or BoM list view > right-click > **Duplicate to**



Window artikel_stlapl_copy.psr

Function	Description

© 2026 Boyum IT Solutions A/S

Copy from	
BoM	Selection of the BoM. All Bill of materials containing the chosen material are shown in the drop-down.
I-Version	Select I-version to be copied.
Variant	Select variant to be copied.
Valid date	Only positions valid at this date.
Positions	Select BoM positions.
Copy to	
Bill of Materials	Selection of the target BoM.
Description	Description – accepted after selection and can be changed afterwards.
Substitute	**Add**: The copied BoM is appended. **Complete substitute**: Previous BoM is replaced by a new one. **Same position ID Substitute**: Replace all BoM entries with the same internal position number. **Same position Substitute:** Replace all BoM entries with the same position text (visible position number). **Same material number Substitute:** Only same material numbers will be replaced.
Validity	This parameter allows to delete or copy certain fields to a new item. Copy: indicated validity is copied and accepted. Delete: Validity is deleted. The validated fields: - versionfrom - versionto - versionarea - Variants - Valid from - Valid to
Renumber	Select field to renumber a new BoM.
Release set	New BoM is marked as "released".

Note: A change log of the copy is created.

Button

© 2026 Boyum IT Solutions A/S

Button	Description
Insert	Insert a previously defined selection from the clipboard.
Cancel	Close the window without saving.
in Clipboard	Copy the defined selection in the clipboard to insert e.g. in another database.

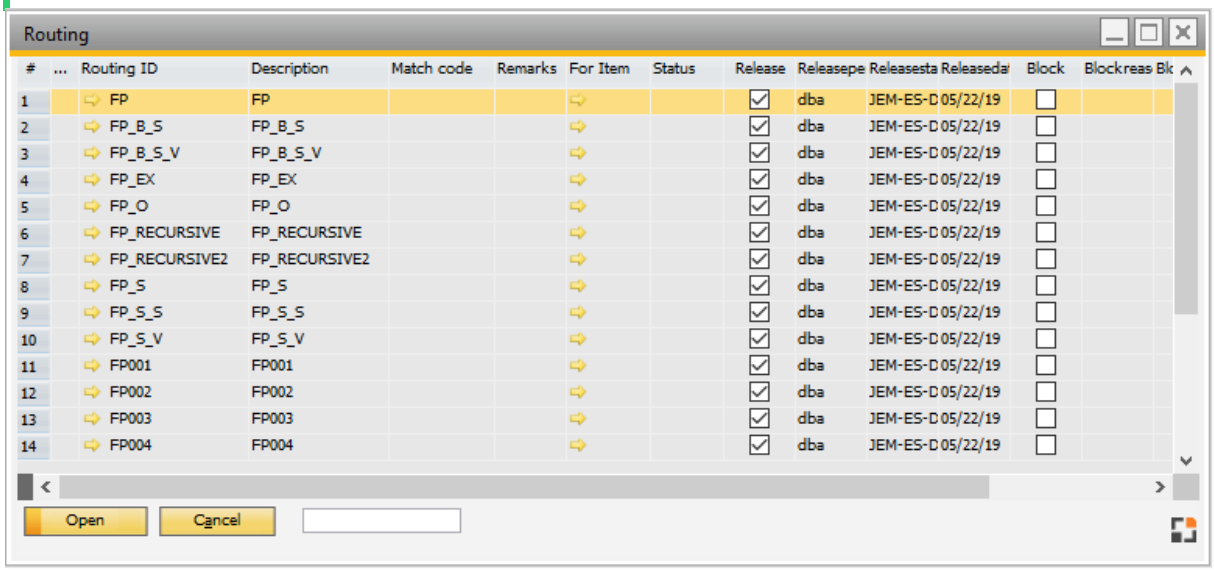
7.6 Routing

Routings can be managed here. They can be independent from item master if item version control was activated.

Routings or operations are steps or tasks used to manufacture a product, which can be carried out on internal work centers or by contracting external providers. Typically, a routing is made up of a series of operations, also called routing steps or routing positions.

The routing – description for routing catalog, routing master data, production routing and Precalculation are summed up in this documentation, because the field description differ only slightly for all areas.

PATH: Inventory > Routing



Window stamm_aplheader_browse.psr

Operation catalog - Routing - Production routing - Calculation

Edit routing

External operation

© 2026 Boyum IT Solutions A/S

General
Extended
Tools
Utilities
Parallel
Alternative
Documents
Special functions

- Linking of routings

Configuration with item version control
Routing
Edit routing
Operations
Edit operations
Documents
Operation catalog
Resources

If Item version control is disabled, the routing is firmly connected to the item. In this case, the following configuration applies:

Configuration with item version control
Item
Operations
Edit operations

See

Configuration wizard Routing
working with master slave (5 Min, 10/2017)

7.6.1 Edit routing

Routings can be edited independent from item master with the edit routing option in **Inventory > Routing** > double-click on a routing or click **Open**.

The editing window opens (***see*** below).
For further information on linking to the item or BoM ***see*** Routing.

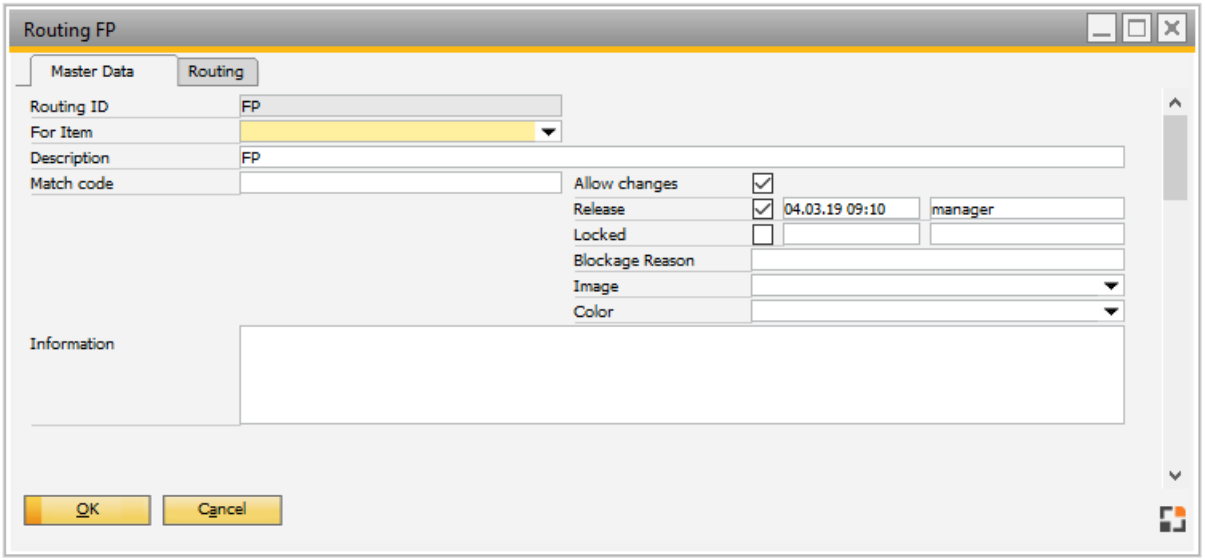
© 2026 Boyum IT Solutions A/S

Window settings and Templates are supported.

Operation catalog - Routing - Production routing - Calculation

- Edit routing
  - External operation
  - General
  - Extended
  - Tools
  - Utilities
  - Parallel
  - Alternative
  - Documents
  - Special functions

PATH: Inventory > Routing > **Open** a Routing



Window stamm_aplheader_edit.psr

Field	Description
Routing ID	Define an ID for the routing.
For item	Select the item.
Description	Define a description to be displayed for the selected routing in the list.
Match Code	Match code

© 2026 Boyum IT Solutions A/S

Allow changes	Activate check box to allow changes for this routing.
Release	Determines the release of routing. Only for information. The routing can be used in any case The exact time/date of the release and the person validating it is displayed in the field to the right. In the Configuration wizard you can set up whether the BOM is released immediately after new creation or copy. ***See*** Configuration wizard
Locked	Once selecting it, the routing is locked. The exact time/date and the person validating the locking is displayed in the fields to the right.
Blockage Reason	The reason for locking.
Image	Add an icon to be displayed at the routing.
Color	Configure a color for header-specific information of a routing in the Routing list.
Information	Add any additional information.

7.6.1.1 Routing positions

Operation catalog - Routing - Production routing - Calculation

Edit routing

- External operation
- General
- Extended
- Tools
- Utilities
- Parallel
- Alternative
- Documents
- Special functions

Individual operations, values for capacity planning, costs and production are defined in a routing. To allow an operation to be created more quickly, individual processes can be predefined in the master data under Operations.

© 2026 Boyum IT Solutions A/S

The entry can be created and edited either in a list format or in detail format.

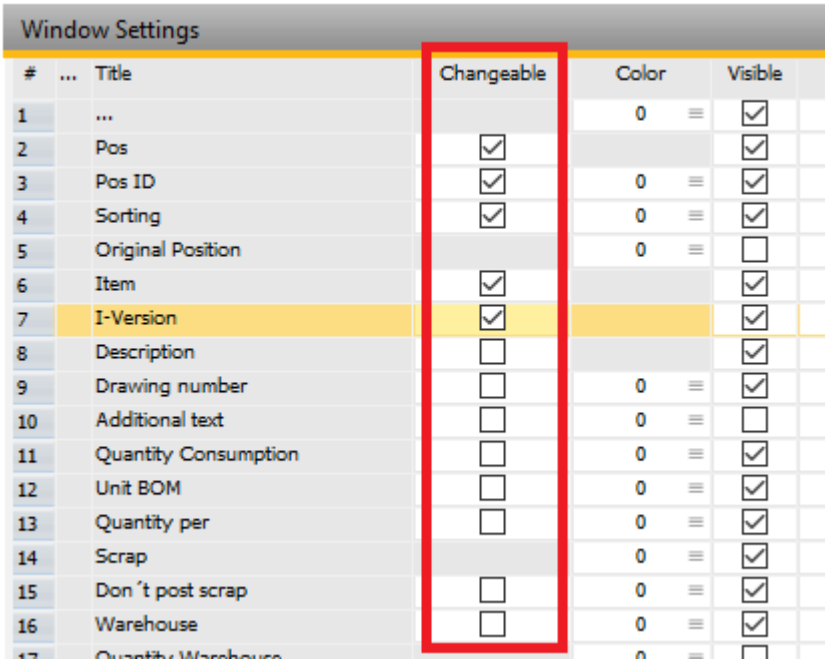
- Enable editing fields in list format

Details can be displayed in detail view or in a list view. In order to edit details in the list view, the fields must be enabled for editing.

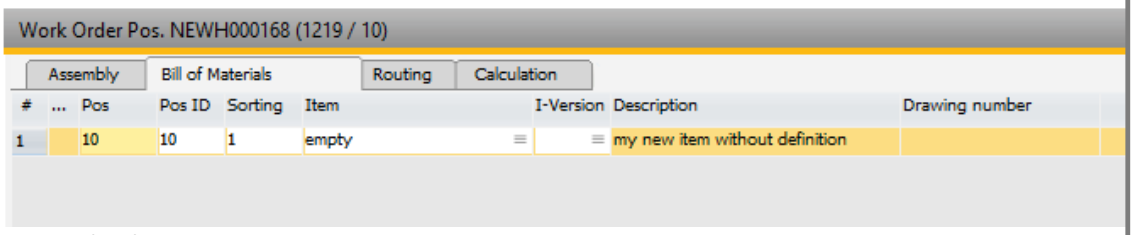
To enable editing:

1. Right-click on a line in the list view and go to **Window Settings**.
2. Set the required fields to Changeable.

This option is not available for all fields



3. Click the **Update** button, then **OK**.
4. Returning to the list view, changes are now visible and fields marked as Changeable are editable.

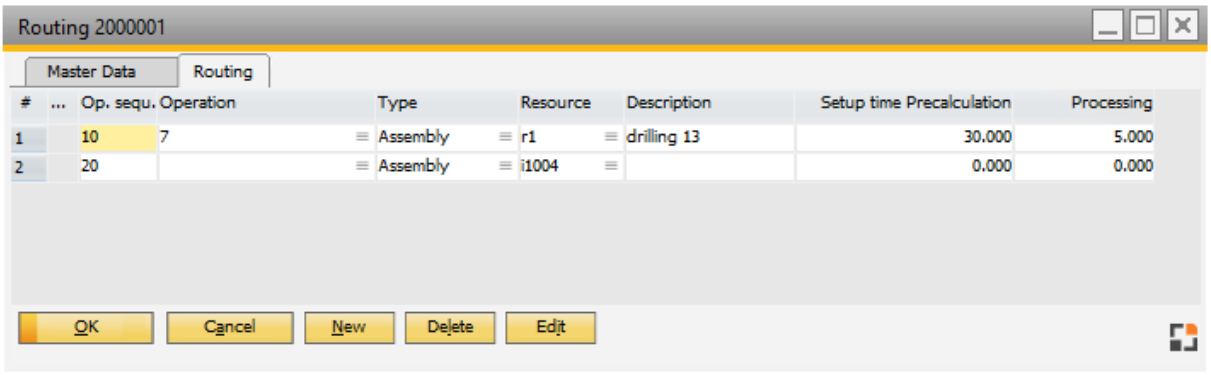


Window fert_ftstlpos_browse.psr

For the description of the fields ***see*** Edit routing.

Window settings and Templates are supported.

© 2026 Boyum IT Solutions A/S



Window artikel_arbplanpos_browse

Sorting

The position number is alphanumeric information and does not determine the sorting.

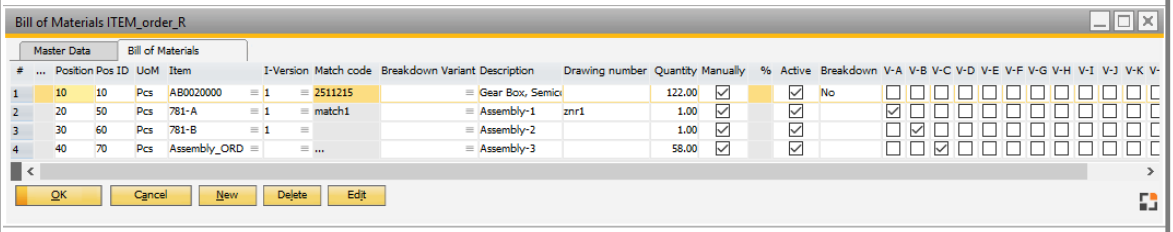
How to change sorting:

1. Click on the field position and hold the click. Note: the selected field is currently not allowed to have the focus.
2. While still holding the mouse, click and move the cursor to the desired row.
3. Release the click.
4. The row is moved to the new row position.

The position numbers are not renumbered automatically. This can be done via right-click > renumber.

Variants A-Z

Variants A-Z can be assigned to the routing positions with check-boxes in a table format.
The variants A-Z have to be made visible via **right-click > window** settings to work with them.



Window artikel_stlpos_browse.psr

If a checkbox is enabled, the routing is only considered if the selected variant is created.
The routing position is ALWAYS considered if no check-box is enabled.

For column structure ***see*** Variants – Notes on database.

© 2026 Boyum IT Solutions A/S

For general information on variants ***see*** Variants.

Note on item version control

This list can be called up via BoM administration.
If working with item version control, the tabs "BoM" / "Routing" are hidden. These can be selected in version control.

Additional functions

More functions are available in the routing browser view.

Function	Meaning
Insert from	Copy routing: Loads the routing from another assembly. If the assembly already has a routing then the loaded plan is added at the end.
Duplicate to	Copies routing into the item to be specified.
Activity Log	If the log is activated, it can be viewed here.
Batch changes	Multiple routings can be changed using this function. ***see*** Batch change routing.

back to item master

See

Routing Master Data
Operations
Data record selection
Window
External production

7.6.1.1.1 Edit routing positions

This chapter describes the configuration of a routing position from various functions.
You can open a routing position to edit from the following functions/windows:
Item master data:

PATH: Inventory > Item report/Item structure > Item master data for XXX > Routing tab > **Open** an operation.

Routing:

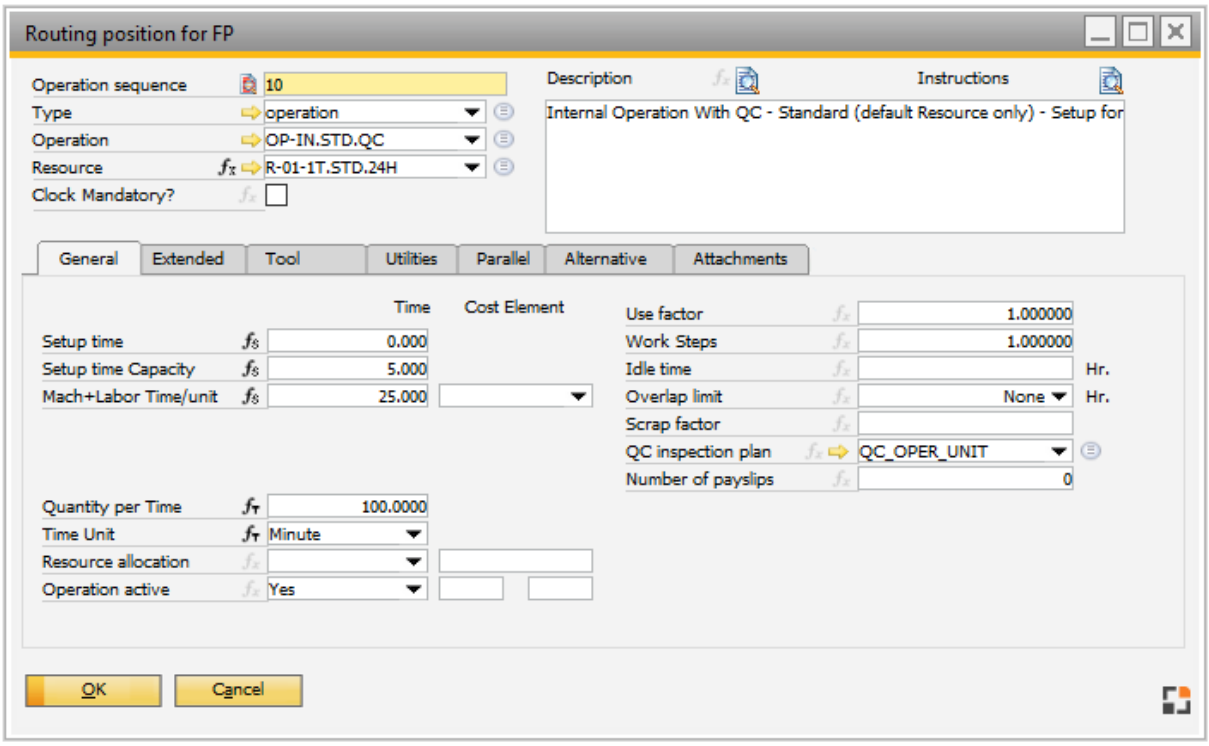
© 2026 Boyum IT Solutions A/S

PATH: Inventory > Routing > "Edit" a routing > Routing XXX "Routing" tab > **Open** an operation.

Operation catalog - Routing - Production routing - Calculation

- Edit routing
  - External operation
  - General
  - Extended
  - Tools
  - Utilities
  - Parallel
  - Alternative
  - Documents
  - Special functions

Routing Position editing window:



Window artikel_ arbplanpos_ edit

Header

Field	Description

© 2026 Boyum IT Solutions A/S

Operation sequence	Position number The position number is counted in increments of 10. ***See*** Configuration wizard to set up. The field is alphanumeric with 20 digits. **Note** The order is not related to a position number, but defined in the list of BoMs by Drag&Drop. It reflects the order of entry by default. Position number cannot be unambiguous. The field "internal position number" (BEAS_APL.POS_ID) shows the internal, continuous and unique ID. **Operation catalog:** In the operation catalog there are no operation numbers, only a catalog ID. **Precalculation, routing and work order:** In these functions you can edit the alphanumeric and the numeric position number. *BEAS_APL / BEAS_FTAPL.POS_TEXT* Variants with script Left to the position field you can open the script window by clicking the formula icon f_x. Enable the fields by **right-click >"display formula fields"** **Formula icons** **Icon** / **Boyum Style icon** / **Description** f_x / f_X / Function f_T / f_T / Table f_S / f_S / Script and other Variants

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style icon	Description
		Empty formula
		Text edit disabled. Double-click to open the script editor. Located left of Item number in Item Master data.
		Text edit - script is inside. Double-click to open the script editor. Located left of Item number in Item Master data.

Important: This function is only available if the Variant generator is activated in the Configuration wizard.

See more details in Formulas, Tables, Variables and BeasScript.

The following variables are available

Variable	Description
`e_belnr_id, e_belpos_id`	Work order, Work order position
`e_aktiv`	Routing position active J/N
`e_routingid`	Routing Id
`e_itemcode`	Itemcode
`e_quantity`	Quantity in regional format
`e_source`	"routing"
`e_info1`	Info for current routing position

See Variant generator – Script.

Note: This function is only available if the Variant generator was activated in the Configuration wizard.

Type	Select a type from the drop-down. The icon opens the Operation types editing window.

© 2026 Boyum IT Solutions A/S

Operation	Select an operation from the drop-down.The icon opens the operation catalog definition. This can be used to adopt the information stored in the master data/operation, thus accelerating input.
Resource	The work station, personnel group, machine or machinery group or also external operation supplier or person on or through which the operation is conducted. The icon opens the Resources editing window. In routing and work order routing, it is mandatory to specify a resource. In operation catalog the resource is optional. ***See*** Resources.
Active	Only in Work order routing position > Operation sequence XXX editing window.
Clock Mandatory?	Defines whether clocking (factory data recording) is mandatory. Check box. This is important when calculating the last operation. Definition: The last operation is the position in which "Clocking mandatory" is active for the last time. If, for instance, the finished assembly is entered at the last operation (depending on the setting), it can be determined this way (necessary if the last operation is "Take down", for instance, but it is not clocked). If the last operation is NOT reportable, receipt is performed here for the last reportable routing, and not for the "Receipt for last routing" option. ***Example***: 10 not reportable 20 reportable 30 reportable 40 not reportable First operation is position 20 and position 30 is the last position. To the other position a report is possible, but not mandatory. Therefore these are not taken into account at the checking of rules. For more information ***see*** last Routing Position
Description	Description of the activity. It is possible to add several lines, (max. 16 000 characters).

© 2026 Boyum IT Solutions A/S

An external editor is opened by double-clicking the field or single-clicking the icon next to "Description".

- You can insert formulas which create your description while creating a work order

Customizing the routing description, Item name or additional BoM text

In addition, in the operation description, additional information on the BoM, or item, information from a formula or variant can also be stored in the description of a routing.
Placeholders can be inserted into routing descriptions for this purpose. These placeholders begin with < and end with >. All variables as well as separate formulas, tables, types of origin, etc. can be inserted.

The origin itself is defined in the placeholder using **origin type** and "**:**".
The type "Script" is used if the type of origin is not specified.

TYPE	Description
f:	Origin is a formula, e.g. <f:MyFormula>
t:	Origin is a table, e.g.. <t:tab4711>
i:	From assembly – item master: e.g. <i:itemname> = Item name
v:	Variable which can be defined as necessary: e.g. <v:var0815>
c:	Beas-script. Can be defined as a type of origin definition, e.g.: <c:e_belnr_id> Document number from work order, <c:e_aplatz_id> = resource ID of the routing position
p:	Parameter from a variant. <p:so_sofa_length>

- Example of an operation description.

© 2026 Boyum IT Solutions A/S

	<c:e_quantity> * Cutting to size according to drawing numbe Color: <v:u_color>, length: <v:length>, width: <v:width> with: e_quantity: e.g. from beas Script the value "5" gives u_dnr: Drawing number, e.g. "ZN 078 12345" u_color: e.g. red length: e.g. 20 width: e.g. 10 the following information results in the field "Description": 5 * Cutting to size according to drawing number ZN 078 12345 Color: red, length: 20, width: 10 **External operations** For external operations the entered text is transferred to the service description. For further information ***see*** Collective order – description. Format needs to be considered.
V-A ... V-X	Short variants. Set hooklet to make this row available as variant. Right-click on the title row: - selection: all - selection: delete This is to select/deselect the check boxes for all lines.
Instructions	Additional text field. The instructions field can be edited in Routing position using clicking the icon. The icon is displayed red when any text is stored. You can use different a text format, set up in Configuration wizard. **Note**: Changing the text format in the Configuration Wizard has no effect in existing entries.

Functions

The following functions are available:

Note: In Precalculation these functions are not available.

© 2026 Boyum IT Solutions A/S

Function	Description
Add	Inserts a new routing position.
Duplicate	Duplicates the position. Clicking this function opens a dialog box "Enter new ID" to create a duplicate of the selected entry.
Remove	Deletes routing position. This button is only available if the routing position is connected with no slave-routing or no routing position.
Save sorting	Sorting of position is determined by drag&drop. After moving, you can save the sorting.
Change log	Opens the Change log.
Formula-allocation for active input	Opens the formula field for the current field. ***See*** Variant production – Field assignment.
Display formula fields	Shows a yellow C before each field . If you click on it, you can store formulas directly.
Formula list	Shows all stored formulas.
Reports	Only in Work order routing position > Operation sequence XXX editing window. Right-click function to open the Reports window.
Time receipt	Only in Work order routing position > Operation sequence XXX editing window. Button/right-click function to open the Time receipt window.
Cross reference	Only in operation catalog. Button/right-click function to open the Cross Reference Operation catalog XXX window for related work order.

Script	Here you can store a script for the variant production.
	Only in operation catalog / Routing position:
	
	All values of the operation sequences can be affected via script if a calculation or a work order is created from that.
	
	Example:
	Only insert operation sequence if the work order was created from User "manager"
	`if <currentuser> <> manager then`
	`  setvar=e_aktiv=N`
	`end if`

© 2026 Boyum IT Solutions A/S

	See Variant generator - Script

back to item master

working with master slave (5 Min, 10/2017)

7.6.1.1.1.1 External operation

Operation catalog - Routing - Production routing - Calculation

Edit routing

External operation

General

Extended

Tools

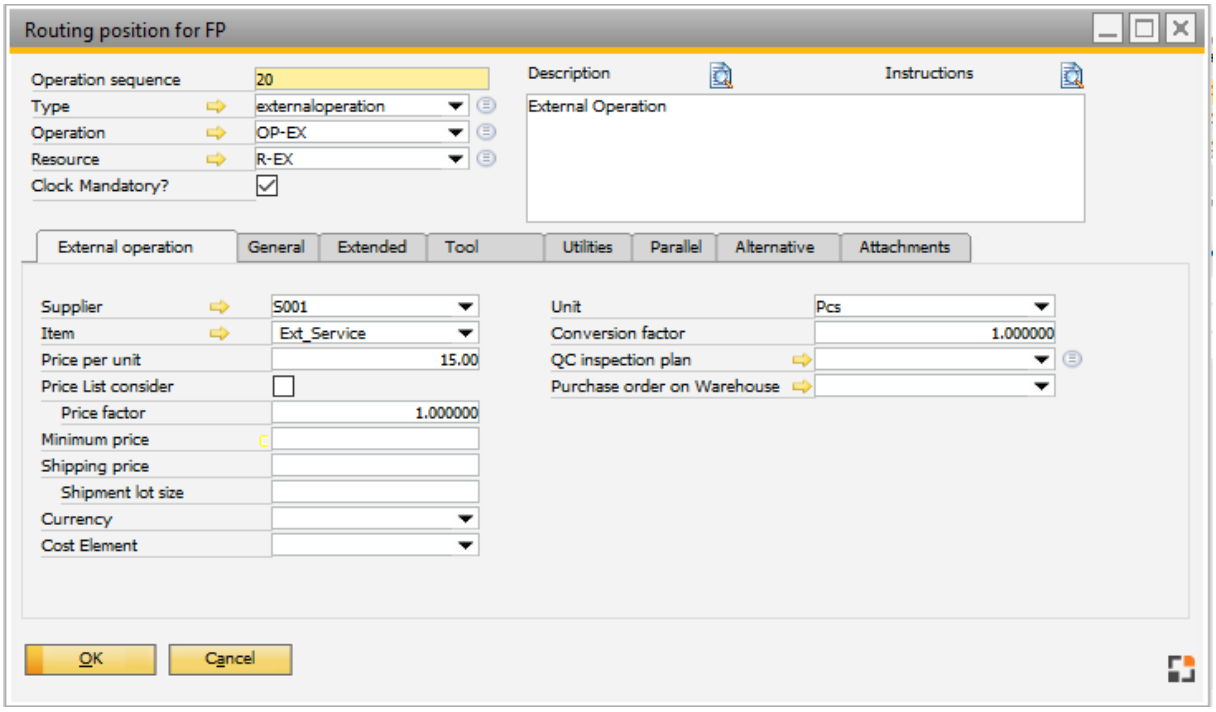
Utilities

Parallel

Alternative

Documents

Special functions



Window artikel_ arbplanpos_ edit

The "External Operation" tab is only visible if an external operation has been selected as a resource.

© 2026 Boyum IT Solutions A/S

An external operation can consist of a pure service (the entry is then on this page only) and / or possess a proprietary throughput time and debit the capacity of a resource, as well as allow costs to arise (entry in General tab)
For further information ***See*** External production.

Field	Description
Supplier	Default supplier Assign the supplier linked to this external operation If specified, it is loaded by default in purchase orders or quotations. Pricing considers the special price list of the supplier if no price was specified for unit price. Suppliers are available depending on settings "select supplier" Clicking on the will open the Business Partner Master Data window. Note: By default, Beas allows to predefine an item for purchase order creation. If the field is filled, it is protected in the purchase order. Pricing depends on **Production > External production > Purchase and provision.** - Pricing for purchase - supplier selection - consider special price list
Item	Assign a non-warehouse item to manage all external operation transactions like purchase orders. If no unit price is specified, pricing is carried out for this item. Clicking on the will open the Item Master data window. Specify service item Only non-inventory-managed items are used for purchasing a service. No material is posted except when provision parts are used. Pricing: ***See*** Pricing for purchase.

© 2026 Boyum IT Solutions A/S

Field	Description
	In purchase, the unit of the item is used. Note: The system ignores UoM Group definition of this item. It is always allowed to choose any UoM for the routing position.
Price per unit	Set the price for purchase orders. Service price per price factor. ***See*** Pricing for purchase.
Price List consider	Check box. Allows Beas to consider pricing, extended price lists, special price lists and blanket orders. ***See*** Pricing for purchase.
Price factor	Include a factor to be used according to the price per unit defined. **Note**: If "Price list consider" is enabled, "Price factor" is hidden, as prices in price list are always stored per Inventory UoM of the service item.
Minimum price	Set a minimum price for the purchase order If the total unit price is below the minimum price, the value specified here is used. ***Example***: €10 € per 1000 units, minimum €30. For 1000 units €30 is calculated (minimum price). For 10000 units €300 is calculated (unit price higher than minimum price).
Shipping price	Transport surcharge Set the transportation price to be included in the total price. Payable per transport lot size. ***Example***: €10 € per 1000 units, minimum price €30, transport price €100, lot size 5000 1000 units are €30 + €100 transport price = 130 € For 10000 units: €300 € €200 €ransport price (2 x lot size) = €500 .€
Shipment lot size	Set the lot size that can be shipped. ***See*** transport price. ***Example:*** 10€ per 1000 units, minimum price 30€, transport price 100€, lot size 5000 1000 units are 30€ + 100€ transport price = 130€ For 10000 units: 300€ + 200€ (transport price x 2 lots) = 500€

© 2026 Boyum IT Solutions A/S

Field	Description
Currency	Specifies the currency in which the amounts are expressed. If no currency is used, the local currency is used.
Cost element	Change the account in which the standard costs from the external operation is booked. If a cost element is stored, and in the cost type an account is stored, costs arising at goods receipt are booked to the WIP account. ***See*** External operation goods receipt, Cost types.
Unit	⊟ Unit in which the purchase is registered Usually you purchase in units of the service item as prices are stored in this unit. ***See*** next Field description in this table titled "Conversion factor".
Conversion factor	⊟ Conversion factor between time receipt unit and assembly unit In the purchase the warehouse unit of the service item is usually indicated. There you can define the conversion factor between consumption unit of the item to be produced and the warehouse unit of the service item. ***Example*:** Production UoM of the assembly: `pieces` Inventory UoM service item: `kg` Conversion factor: `3` For a requirement of `60 pieces, 20kg` of service items `(60 : 3)` needs to be purchased. **Note:** By default, Beas allows to predefine a conversion factor for purchase order creation. If the field is filled, it will be protected in the purchase order. For more Information ***See*** Collective Purchase Order – Quantity.
QC-inspection plan	Define if this external operation has to be inspected by the quality control team when producing the item or performing the task and link to stored QC-inspection plan. Clicking on the opens the the editing screen of the selected plan, and clicking

© 2026 Boyum IT Solutions A/S

Field	Description
	the opens the list of QC inspection plans.
Purchase order on Warehouse	Define the warehouse for purchase order. If you create the purchase order, the system takes this warehouse for the purchase order. This is the own warehouse for the invoice or/and ship back warehouse. For more Information ***see*** Collective Purchase Order.

Additional fields in Precalculation

Warehouse	Determines the warehouse of the service item. This is required for pricing, if you work with "price per warehouse".
from Quantity / Price	Only visible if "consider price list" was activated. Up to 4 quantity-dependent prices can be entered. Quantities are given in units of the service item.

See

Collective Purchase Order

7.6.1.1.1.2 General

There are defined times and costs of the operation, and lead time determines the costs and duration of the work sequence.
Values are specified in "Time Unit" (hour/minute) and refer to "Quantity per Time" in units of usage of the assembly.

Operation catalog - Routing - Production routing - Calculation

Edit routing

External operation

General

Extended

Tools

Utilities

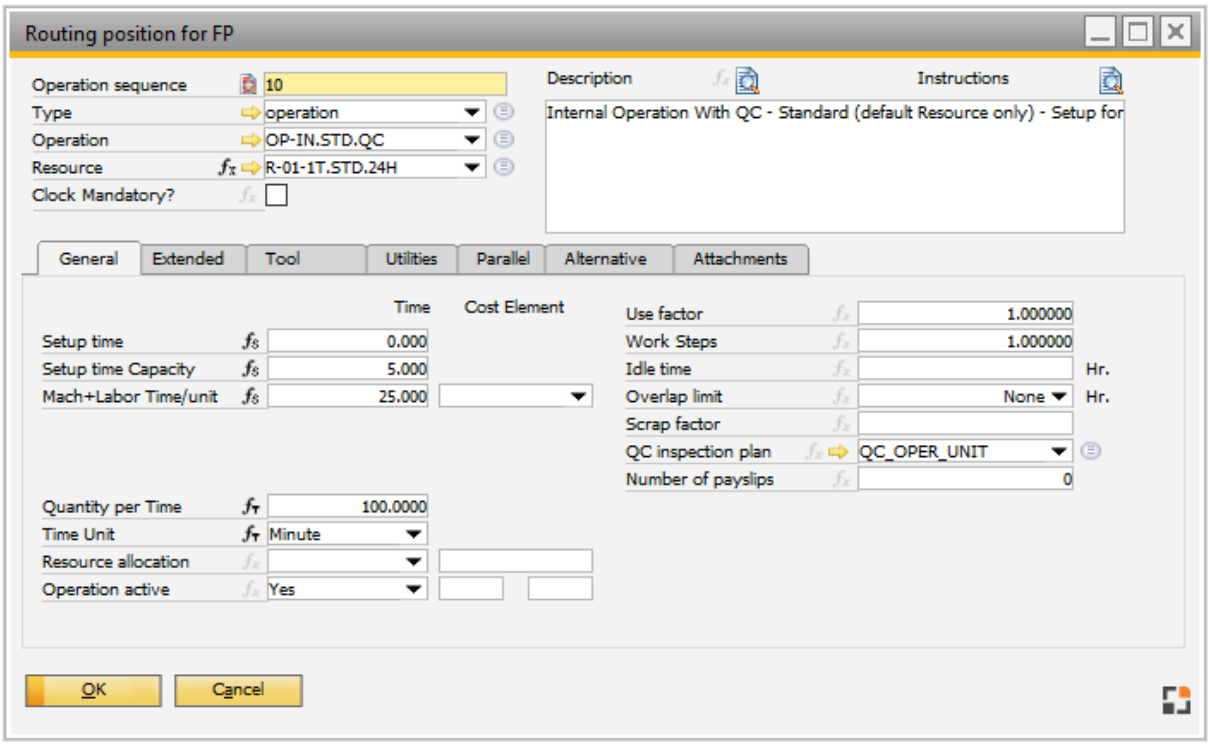
Parallel

Alternative

© 2026 Boyum IT Solutions A/S

Documents

Special functions



Window artikel_arbplanpos_edit

Field	Description
Setup time	Setup time for Pre- and post-calculation The setup time in hours or minutes is taken into account in production and costing analysis as well as in Precalculation. Note: Designation can be changed in Configuration wizard – Resource – Definition Time types. **Precalculation and Lot size** Setup time is calculated per calculation lot size. ***Example:*** Lot size 10, setup time=5 minutes, calculated: 19 pieces Result: total setup time 10 minutes or 0,52 per piece

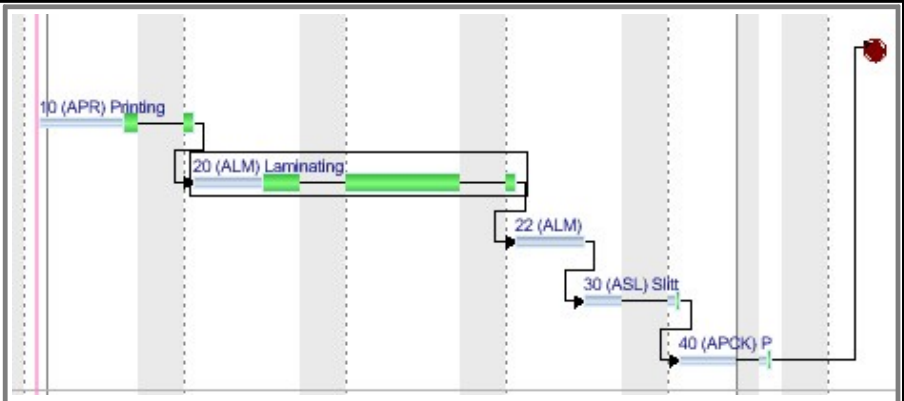
© 2026 Boyum IT Solutions A/S

	If a sub-assembly has its own calculation lot size, it will be taken into account. ***See*** Precalculation – View and lot size. **Production and lot size** If a work order is created automatically (e.g. via order recommendation report or sales order to work order, a separate work order position per item-lot size is created. The setup time indicated here refers to the lot size in item master. **Separate reporting of setup times** If "Extend to cost elements" was set to 2 or more in the Resource, the setup time can be reported separately via FDC and evaluated separately in calculation. Enter the cost element to which the accrued costs are posted.
Setup time Capacity	The set-up for scheduled capacity in hours or minutes is considered in capacity planning and throughput time calculation. This setting has an effect on calculation of target time.
Mach+Labor Time/unit	The actual processing time per work step. The field designation can be changed in **Configuration wizard > Master Data > Resources > Time types** or via Ctrl+ double-click in the text field. Times are specified in units "Times in ..." (hour/minute) and refer to "Times per .. " finished parts taking account of the utility and work steps in units of usage of the assembly. The Cost Element field specifies the cost element for which the planned or accumulated costs should be totaled, facilitating detailed analysis. Tools that determine the throughput time and also alternative operations can only influence the job time (processing time). ***See*** Calculation of planned time.
Secondary, main time	Secondary time and main time. In addition to the job time, two other secondary processing times can be specified if "Extend to cost element" is set to 3 or 4 in the resource. The secondary processing times are designated in Configuration Wizard or

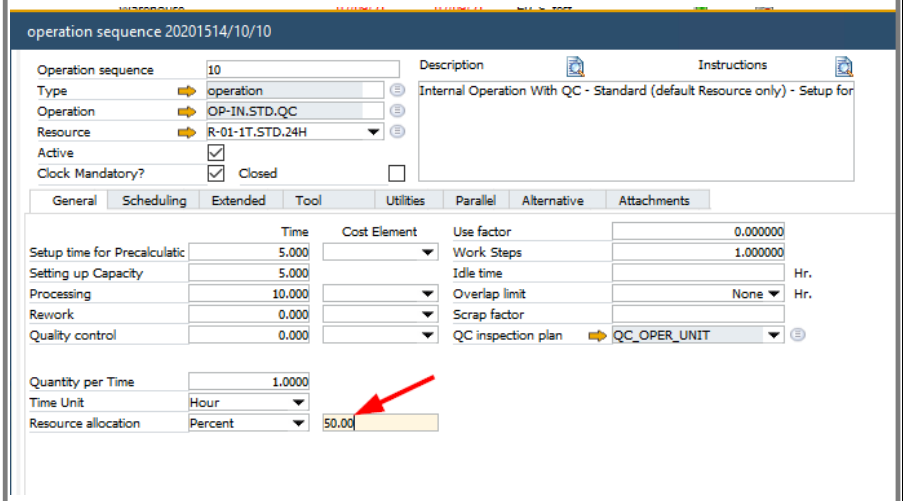
© 2026 Boyum IT Solutions A/S

	via Ctrl+Double click in the text field. ***See*** Concept Time types.
Quantity per Time	Determines the assembly quantity the time refers to. Enter to which assembly quantity (Production UoM) the time refers to. Thus you can indicate even short lead times correctly. ***Example:*** Lead time 0,0001 minutes per piece To make it more readable, you can enter 1 minute per 10000 pieces If it is a fixed time, enter 0 at "quantity per", that means this time is needed only once per lot size. Same effect as for setup time. ***Example:*** Lot size 10 Production 50 pieces Time = 2 Minutes per 0 Total time: 5 lot sizes a` 2 minutes = 10 minutes **Fix Quantity: Quantity per Time = 0** This means you need the time per lotsize ***Example***: 3 Minute per 0, you produce 100 Pcs. The System calculates 3 Minutes for all 100 Pcs. For additional information on lot sizes ***see*** Precalculation – Display and lot sizes.
Time Unit	Unit of time in which times are stored – hours or minutes. The default can be stored in the options.
Resource Allocation	The extent of utilization of a resource. Determines the utilization of the available resource capacity.

© 2026 Boyum IT Solutions A/S



See Default Calculation type: Reallocate forward.



Type	Description
Number	Number of resources used (subject to the prerequisite that the resource exists more than once, e.g. if the resource is a group of persons. Where 2 is input for 5 persons, the resource of 2 persons is scheduled at most. Note: If this is not 1, the system uses the calculation method Exploit Full capacity for this routing position.
Percent	Percentage utilization of the resource. ***Example 1***: Group of 6 persons. At a utilization of 50% the resource of 3 persons is used at most. ***Example 2***: Machine which is only partly utilized. To extend the throughput time, a lower utilization can be specified here.

© 2026 Boyum IT Solutions A/S

Type	Description
	If 20% is specified, throughput time is quadrupled while costs remain the same. Note: If this is not 100%, the system uses the calculation method Exploit Full capacity for this routing position.
Simple	Default setting: For "Simple", only one resource is 100% utilized.

Note:

For Detailed planning (i.e. a resource should be planned to the minute) the option must be set to "Simple".

Operation active

- Determines whether the operation is active and can be used

You can set here whether the operation should be included. Apart from Yes/No, a condition is also possible, such as production quantity greater, in between or smaller than a specification defined here.
Example: The operation in which a small machine has been defined should only be used when the production quantity is smaller than 30. If it is greater, an operation should be used in which a large machine with a respectively higher set-up time but smaller mach+labor time is stored. Quantities refer to "per units of usage" of assembly.

Note: This switch is only visible if in the Configuration wizard – Routing – Operation field show is activated.

- Operation catalog:

In operation catalog this field is not available.

- Routing:

In routing it can be set up depending on the quantity:

Yes: Always active.
No: Not active.
Quantity bigger: Only active if quantity exceeds the given value.
Quantity smaller: Only active quantity falls below the given value.

© 2026 Boyum IT Solutions A/S

Quantity between: Only active if the quantity is between two given values.

Thus you can activate a routing depending on the quantity.

Example:
Depending on the quantity, a certain resource is to be used.

until 10 kg (active quantity < 10 kg): Resource "small bowl", planned duration: 10 minutes
from 10 kg (active quantity > 10 kg): Resource "big bowl", planned duration: 20 minutes

Field description

The value is saved in `aktivformel` with the following configuration `Id=Value1=Value2`
G = "Quantity bigger"
K = "Quantity smaller"
Z = "Quantity between"
N = "Not active"
J = "Active" (Default)

If the field is empty, the entry is treated as active.
Example: Only active for quantity between 10 and 20 "`Z=10=20`"

Note regarding variants / formulas

Only the following values may be returned here if a formula has been stored via the – icon: Y for "Active" or N "Not active". "bigger", "smaller" or "between" are not allowed via the formula system.

Generate Work order

By defining value "N" in the formula, the system does not insert the routing position in the Work order. This is to be activated in **Configuration wizard > Production > Create >** Apply inactive work order sequence.

© 2026 Boyum IT Solutions A/S

Generate Precalculation

In Precalculation the system always transfers inactive routing positions. *(beas 9.3 PL 2)*

Generate new Item (Product Configurator)

By defining the value "N" in the formula, the system does not insert the routing position in the Work order. This is to be activated in **Configuration wizard > Production > Product Configurator >** Apply inactive work order sequence *(beas 9.3 PL 2)*

Active field as Script

If you click in field Pos on – icon, you can define all fields with `setvar=e_[fieldname]=value`

If you want to disable a routing position, use the following script: `setvar=e_aktiv=N`

With *beas 2020.02* the Variable "`e_aktivformel`" is not supported.

Pre-calculation

In Precalculation there is an active-field and an "only if quantity" .... The second field has the same meaning as in routing. The operation is only active if the condition is met.

Work order

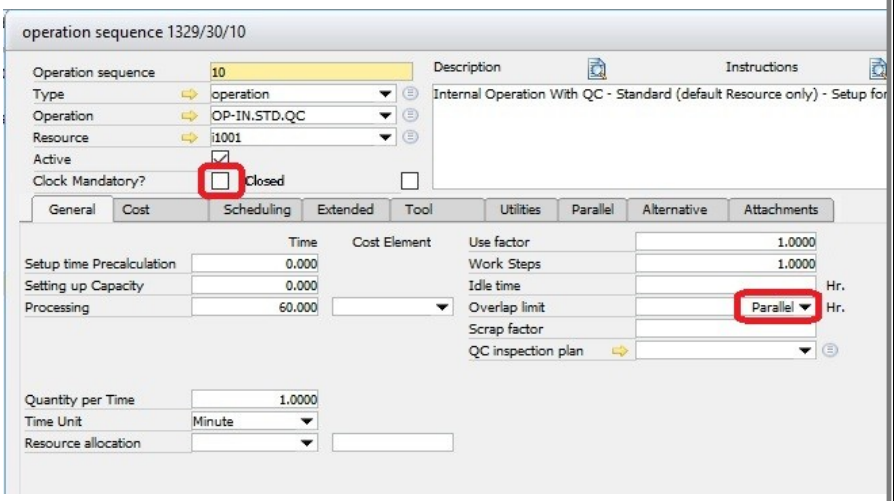
Only active routing positions are transferred to the work order. If you make a selection in the Configuration wizard to accept inactive routing positions as well, these will be transferred to the work order, and deactivated.
You cannot log on to these operations and they do not cause time demand.

This switch can be disabled manually.

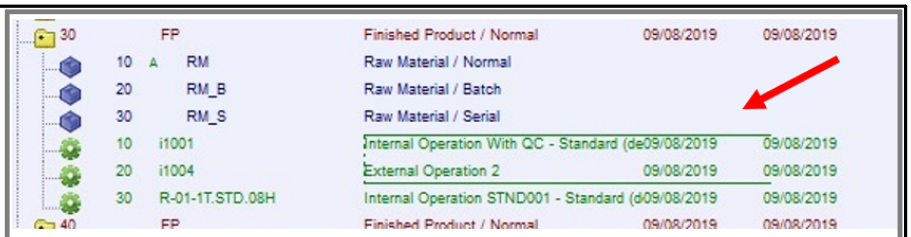
© 2026 Boyum IT Solutions A/S

Valid Period	In Precalculation Operation: Select the From - To dates of a validity period.
Use factor	Determines the use factor of the operation If several parts are produced with only one work step, the use factor is higher than 1. ***Example*** Cut a plate with a saw Duration: 1 minute Result: 2 plates, per 1 plate, only 30 seconds are required. Use factor in this case:2 ***Example 2:*** Injection molding with 12 nozzles. One process creates 12 parts, the use factor is 12 in this case. ***See*** Calculation of planned time.
Work steps	Works opposite to the use factor. Define how many work steps are needed for one part If several steps are needed to finish one part you can enter the number here ***Example:*** Tighten 10 screws. Per screw, 15 seconds are needed. Piece time is `15 seconds` Work steps `10` Total time `15 * 10 seconds = 150 seconds` ***See*** Calculation of planned time
Idle Time	Idle time in hours in which the semi-finished part must not be further processed, e.g. drying time, cooling etc. `|--- Transfer time --| |-- Planned time --| |--- Idle time---|` The resource is available at this time for other orders. There are no arising costs .

© 2026 Boyum IT Solutions A/S

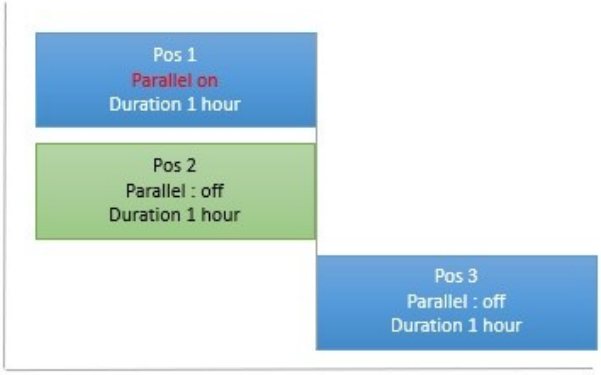
	Forward Scheduling: The next sequence of operations can begin only after the idle period. The idle time should not be used for the extension of lead times. It is recommended to use transit time (***see*** resources). By default, factory calendar and resource calendar are not considered. These can be taken into consideration by changing the settings in the Configuration wizard.
Overlap Limit	The overlap time to the next operation is stored in hours. By using overlap settings, you can define the delay for the subsequent work sequence or define to start it in parallel. Unlike parallel resources, the subsequent work sequence can be moved freely. You can define the overlap limit in **Routing position > Overlap limit**. Choose "Parallel", "No" or insert the number of hours/minutes manually. If this is defined in Position 10, the next position will be parallel. This means: "Clocking mandatory" must be disabled, because you can start with Position 20 before closing Position 10.  *Window fert_arbplanos_edit.psr* In Item Structure view you can see parallel / overlap limit information in this way: In this example in Position 10 the "Overlap limit" is defined:

© 2026 Boyum IT Solutions A/S

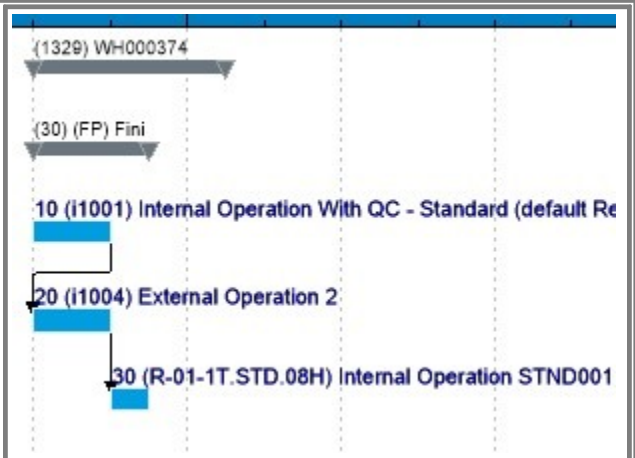
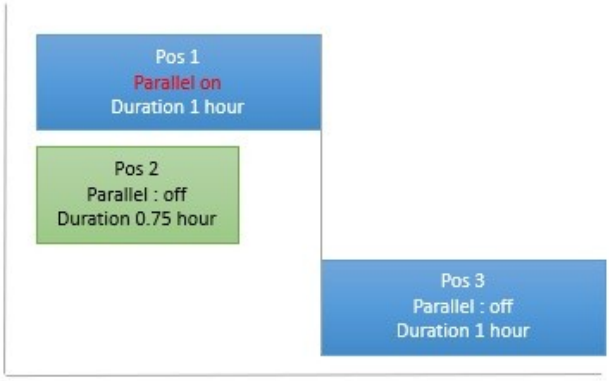
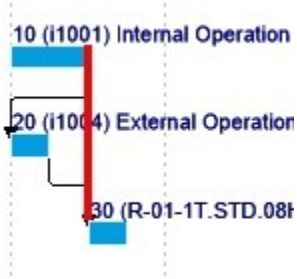


Note:

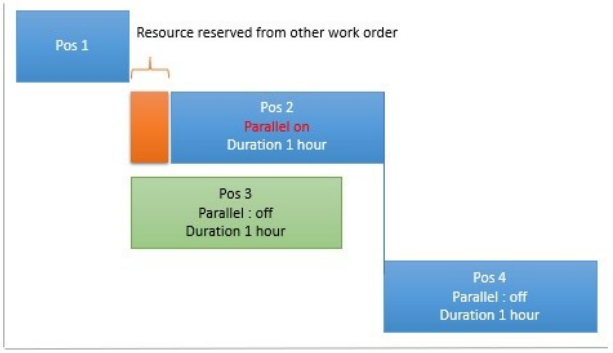
Overlap calculation runs correctly only with forward calculation.

Value	Meaning
0	No overlap.
Parallel	Next Routing position will have same or next possible start date Forward calculation The earliest start date of the following operation can be the same as the first one or the next possible start. The next possible start may also be earlier than the one of the previous operation. ***Example 1 :*** Pos 1 is defined as parallel, so Pos 2 can start parallel to Pos 1  View in Beas

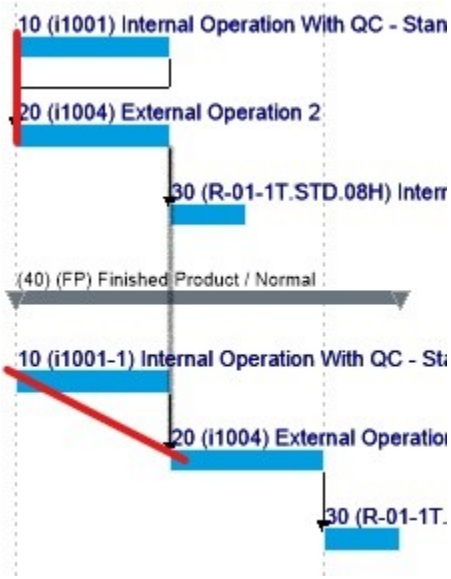
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 Start of 3. routing position is after the end of the latest parallel routing position. ***Example 2***: Pos 2 needs less time than Pos 1.  View in Beas  Start of next routing position is always after the end of the latest parallel routing position. ***Example 3:***

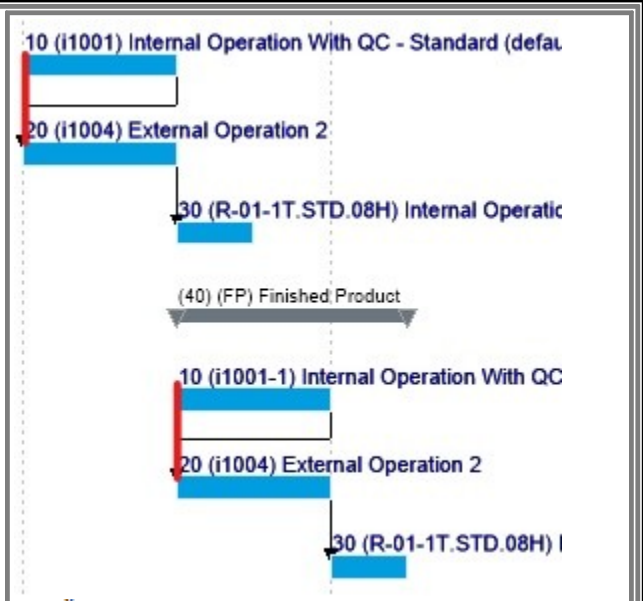
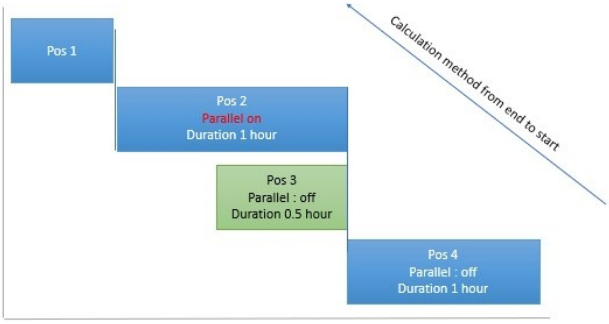
© 2026 Boyum IT Solutions A/S

Value	Meaning
	Scenario: Position 3 is parallel to Position 2, but after Position1 finishes, resource for Pos 2 is not available. For example Resource is reserved by another work order. If the resource is not available immediately, the routing position starts at the next available time. In this example, the position 3 can start **BEFORE** the first position:  ***Example 4:*** Scenario: 2 work order positions. Both WOs have defined the 2. operation as parallel. Start date is same. First operation has different resource, but the second parallel operation has same resource for both WOs. Explanation: The parallel resource uses the start date, on which the resource is free. For the first WO this is the time when operation 1 starts. In the second work order position you see that the start date of second operation does not start together with the first operation. The reason is that WO 1 already occupies the resource. So the second operation of WO can only

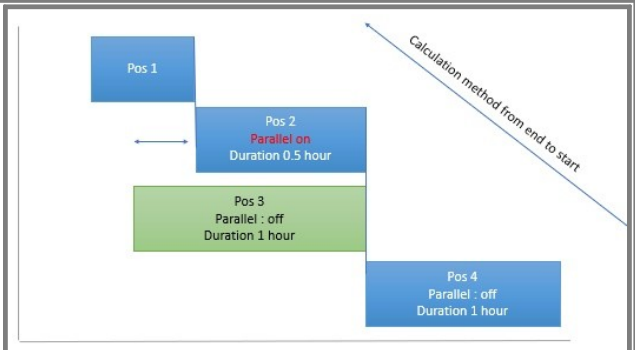
© 2026 Boyum IT Solutions A/S

Value	Meaning
	start after the operation 2 of WO 1 stopped. In that case the the second operation does not start parallel but delayed:  You can set parallel-defined operations to always run in parallel in the Configuration wizard. Result with setting "Overlap limit = fix" Start date of Pos 40 on Resource i1001-1 start later, because the next resource i1004 is not available before.

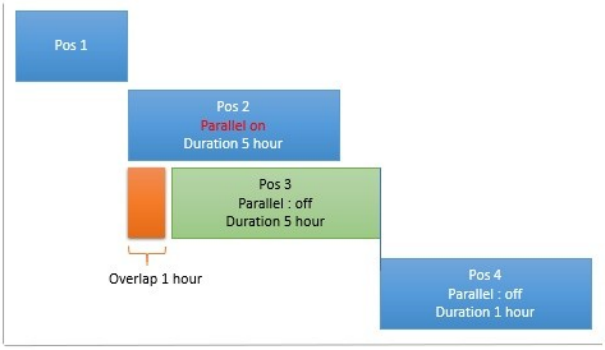
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 ***See*** APS fix parallel routing positions Backward Calculation The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration. Parallel resource: The system calculates the following:  If duration of Pos 2 is less than that of Pos 3, then Pos 1 ends with the start of Pos 2.

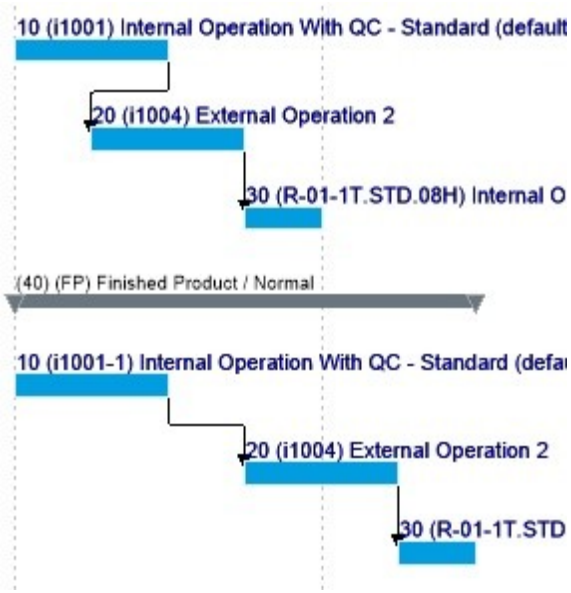
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 In this case, the system is working different from forward calculation. If you work with backward calculation, the first parallel position must have the longest duration. Differences between parallel resource and parallel operation Parallel resource: - is always parallel - 100 % - Parallel resource have always same start / end time - Use Parallel resource, if you don't need this resource 100% (Example: A worker is the "parallel resource", but is working on 4 machines in parallel. In this case he must invest only 25% for his time for this operation) Parallel Operation: - is not always parallel. Only if the resource of parallel operation is available - can have different work time - can work with resource optimization - can have own parallel resource, tools and so on
> 0 Overlapping	Overlap of the following routing position or assembly if it is the last routing position. Forward Calculation

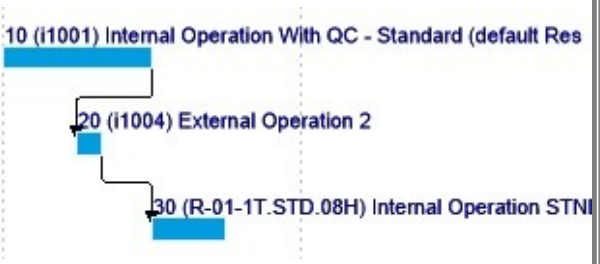
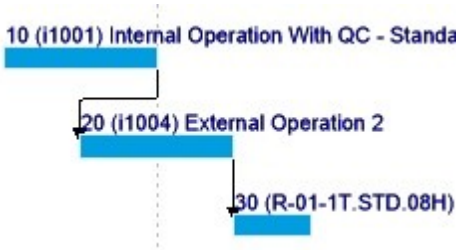
© 2026 Boyum IT Solutions A/S

Value	Meaning
	The Overlap time define, when the next operation can be started. The time, which you define, is the delay in hours/minutes, until the next operation starts. The defined time is the earliest time. **Example:** 2 hours means, the next operation can start - 2 hours after start current operation or after end of this current operation (if the current operation is less than 2 hours) - if resource of next operation is not available after 2 hours, then at the time, when the resource is available. **Example:** In this scenario the start date of the third routing position is the real start date of the second routing position + defined overlapping time in hours, here 1 hour.  An overlap is specified in hours – based on a 24-hour day. The specified overlap always applies to the following routing position. The overlap time is not bound to a resource calendar. This is purely hour-based time excluding time reservations or other factors.

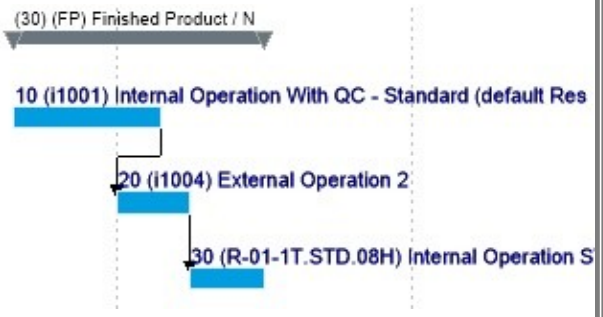
© 2026 Boyum IT Solutions A/S

Value	Meaning
	The overlap time begins AFTER the transit time. The next routing position cannot possess a transfer time, otherwise it will be appended to the transfer time. ***Example:*** Scenario: 2 Work orders, same routing plan. In first operation different resources. Overlap limit = 0.5 hours First work order: Position 20 start 0.5 hours after start of position 10 Second work order: Position 20 start later, because the time is reserved from first work order 

© 2026 Boyum IT Solutions A/S

Value	Meaning
	If you want, that the overlap have always exact the same overlap time, a setting is available. ***See*** Configuration wizard ***Example:*** Scenario: Work time of second work order position is less than the work time of the first operation. In the first operation, overlap time is defined:  In this case you're ready with second routing position before you're ready with first routing position. But you can start with third routing position only, if all parallel / overlapped routing positions are done. In this case after end of Routing position 10. Backward calculation In a simple example the result of backward calculation is same as forward calculation Example: Work time 1 hour, overlap 0.5 hour in first operation  But is the duration of second operation is not same as first operation, then the result is different

© 2026 Boyum IT Solutions A/S

Value	Meaning
	to forward calculation: The system calculate backward: First 30, then 20 - from 20 the overlap is calculated (Start time from Operation 20 + Overlap time from Operation 10 = End time from Operation 10.  Alternative for backward calculation is "forward late as possible" Note: The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration.

Note:

The last operation corresponds to the last "reportable operation".

If an overlap is also configured in the last operation, Beas does not recognize this as the last operation.

However, the automatic assembly receipt or adjustment of the backflushed material depends on this.

Overlapping using assemblies

Assemblies can also overlap in an order-related structure.

Example:

```
        |- Main assembly -|
|--- Subassembly -|
```

© 2026 Boyum IT Solutions A/S

	Start date of the main group is normally the end date of the last routing position of the subassembly. If this last routing position has an overlap, this is also considered. ***Important***: If an overlap is entered in the last routing position, it is no longer recognized as the "last routing position" in the backflushed posting transactions.
Scrap Factor	Scrap factor related to this routing position in % In this field an additional Scrap factor on routing position level can be defined. This is calculated as (Mach+Labor) / 100 * Scap Factor Example: Production 8 Pcs Setup Time = 60 Minute Labor Time = 10 Minute Scrap Factor = 5 % Total Time = 60 + (8 * 10) + (8 * 10 : 100 * 5) = 144 Min.
QC Inspection Plan	Store a QC-inspection plan in operation If a QC-inspection plan is stored, – depending on the settings – a QC order will be created. ***See*** Configuration wizard Measured values can be registered via QC-order, Terminal or WEB-Apps. If respective rules are defined, the release of the next operation may depend on that. ***See*** Configuration wizard – FDC – login rules ***See*** QC-inspection plan Quality control order
Number of payslips	Information field – if applicable, for information on number or pay slip

© 2026 Boyum IT Solutions A/S

	printouts.
Expand to Cost Elements	In Precalculation Operation: Select the number of cost rates. The default is one cost element (processing time), which can represent a mixed calculation of machinery and personnel costs. Select the number of cost elements you are to use in Precalculation, update the window, and the selected cost elements appear in the Costs tab. ***See*** more details in Costs.
Value Labor costs separately	In Precalculation Operation: If this option is activated, a separate cost rate can be stored for personnel costs and the "Labor cost rate" field appears in the Cost tab. ***See*** also Costs.

7.6.1.1.1.3 Extended

Operation catalog - Routing - Production routing - Calculation

Edit routing

External operation

General

Extended

Tools

Utilities

Parallel

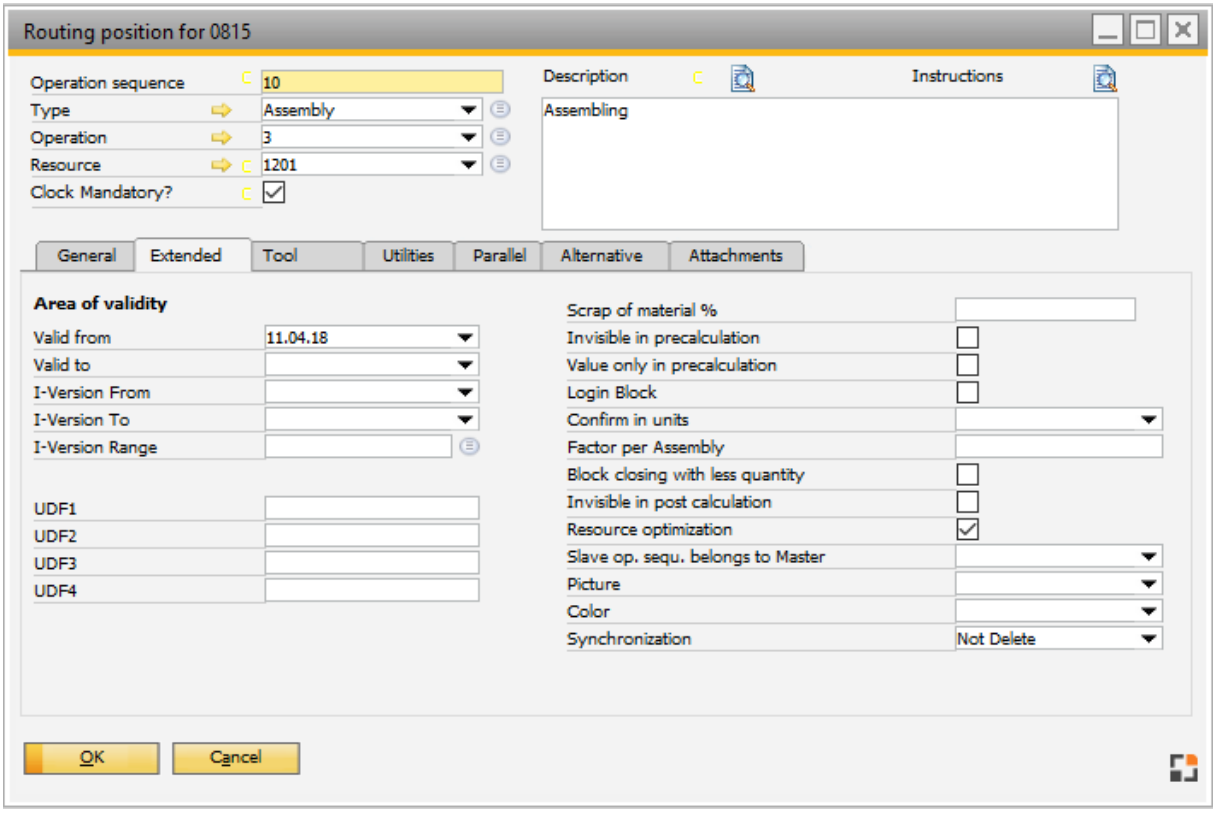
Alternative

Documents

Special functions

© 2026 Boyum IT Solutions A/S

In this tab Beas allows the user to insert additional information used in production processes.



Window artikel_arbplanpos_edit

Field	Description
Valid from / to	Define the Valid Date Area. If no date was entered, it is valid always, otherwise only in the specified period. **Precalculation:** Precalculation date serves as reference. In Precalculation, all BoM positions are displayed but only the valid ones are valued. **Production** Depending on **Configuration wizard > Production > Capacity planning > Default calculation method** Calculation backwards: Delivery date serves as reference. It is checked only at work order creation. If the

© 2026 Boyum IT Solutions A/S

Field	Description

	delivery date is changed subsequently, there is no second check as long as the work order is not updated.
	
	Item-Processing time:
	The Delivery date of the respective assembly serves as reference. The item-processing time of the respective assembly will always be used for the calculation of the completion date of a sub-assembly *(beas 9.1 PL: 08)*.
	
	Creation via ue_api_wo
	The parameter "validdate" can be defined additionally, if the work order will be created via the API. *(beas 9.1 PL: 08)*
	`declare=wo=ue_api_wo`
	`wo=set=validate=<mydate>`
	`// .. normal script to create or refresh a work order`
	
	Sales order in Order recommendation
	At breakdown of the assemblies the delivery date of the sales order is used, minus the average delivery time, stored in the Configuration wizard.
	
	Special case: **Configuration wizard > Production > Capacity planning > Default calculation method = Default calculation method**
	The calculated date of requirement of the respective sub-assemblies is used as reference date for sub-assemblies.
	
	Example 1
	A supplier changes the item number from a given date
	Pos 10: previous item number until date x
	Pos 20: new item number from date x+1
	
	Example 2
	At date x additional material is required.
	If larger changes are needed, we recommend to use item version control.

I-Version From	Field used to select the first I-Version to be taken into account in a range.
I-	Field used to select the last I-Versions to be taken into account in a range.

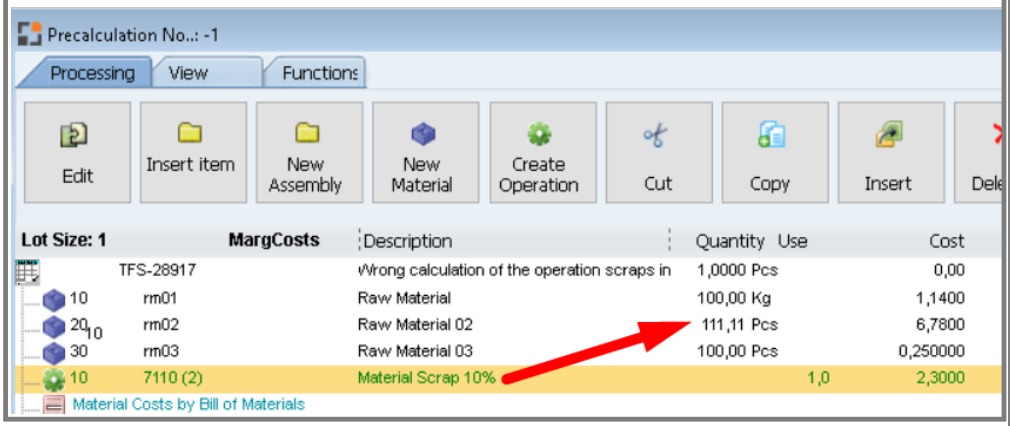
© 2026 Boyum IT Solutions A/S

Field	Description
Version To	
I-Version Range	Field used to select the specific I-Versions to be taken into account. Clicking on the will open the Multiple selection window to choose several versions.
Scrap of Material %	Material scrap % In **Routing position > Extended** you can define the Scrap of Material related to a routing position. ***Example:*** You must produce and fill 6 kg of paste. 15% is lost during filling. Now you must calculate how many liters of paste are needed. **Calculation** Correct formula is: Quantity: (100 – Scrap %) * 100 If you need 6 kg of finished product, you need 6 kg : (100 - (0.15) * 100 = 7.059 kg paste If you see the opposite: I fill 7.059 kg paste and lose 15% = 7.059 - (7.059 / 100 * 15) = **6 kg** In the **Configuration wizard >** "Behavior for Routing Scrap of Material % affects" you can define how the program should work. The "Exceeding planned quantity allowed" affects BoM position - material scrap: The Minimum/Maximum percentage is calculated based on total quantity. ***see*** Configuration setting. The following settings are available: Only the linked material is affected by the Scrap % setting

© 2026 Boyum IT Solutions A/S

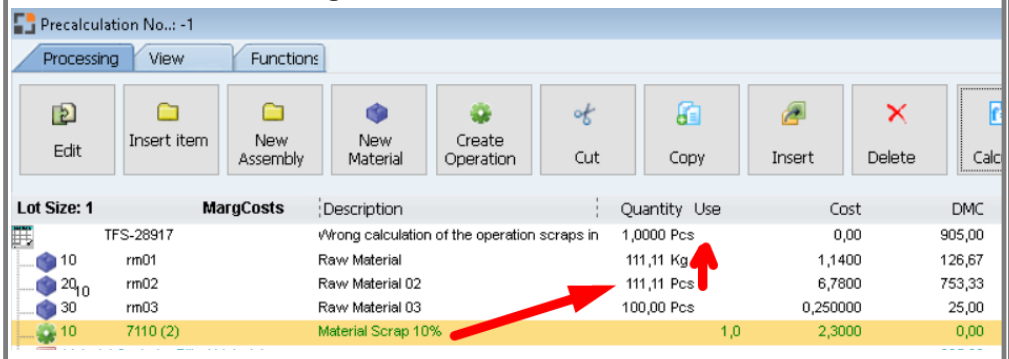
Field	Description

Result see this example:

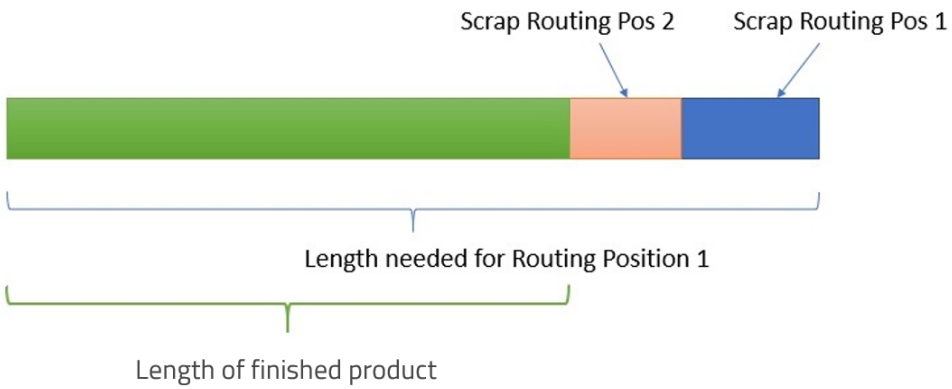


All materials under the last linked materials are affected

This is the Standard setting



Example: When a bar is sawed, a scrap rate of 10% may incur. If the material is ground, the bar becomes even shorter, that is a longer length must be cut beforehand,



© 2026 Boyum IT Solutions A/S

Field	Description

Example:

We need a finished product with a length of 250 mm.

We start with 308.65 mm - sawn : scrap 10% = 277.78.
Continue with 277.78 mm - ground : scrap 10% = 250 mm.

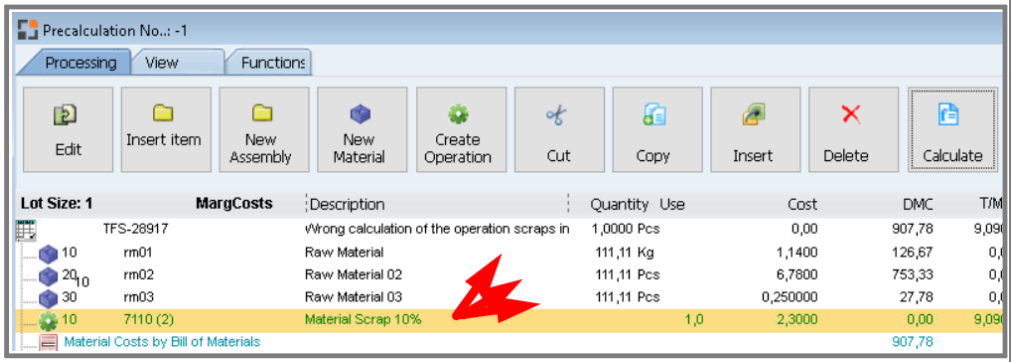
Routing Position	Material	Quantity	Scrap %
10 sawed	bar	308.65 mm	10
20 ground		277.78	10
30 QC		250 mm	

Calculation

Correct formula is: Quantity : (100 – scrap%) * 100

Position 20 we need 250 : (100 – 10) * 100 = 277.78
The value is entered into the production BOM item, column "calculated scrap" as fix value.

All materials are affected by the Scrap % setting



Notes:

- This field is only visible when the parameter in **Configuration wizard > Master data > routing > "operation related material scrap**" is enabled.
- The Item Report – Item Structure report does not support Material Scrap factor on

© 2026 Boyum IT Solutions A/S

Field	Description
	Routing Level. • Enable this option only if absolutely necessary; the computation will take considerably longer. • In Work orders this field is blocked, because scrap of material is determined only at the moment of creating the work order. • When checking which routing positions are considered, the following criteria apply: - Validity date - Active (no formula, no quantity check) - Variants (A–Z) Not checked: - Variants formulas, Product configurations
Personal allowance %	Define the rate of personal allowance. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Recovery time %	Define the rate of recovery time. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Efficiency Rate %	Define the rate of Efficiency rate. Beas don't use this fields for any calculation. You can use this for own calculation, example for calculate the labor time with formulas ***See*** Variant generator
Invisible in Precalculation	Control the visibility The position is inserted in the calculation but not valued and also not displayed, i.e. these are available here but completely invisible. Creating a work order from calculation, this operation will be inserted. Different behavior applies to "blocked operations". These are not included into the work order. *Field in Document: precalc_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 2* *Example:* *0*00000 = Pos 1 = 0 = Off *1*00000 = Pos 1 = 1 = On
Value	Control the Visibility "only in pre-calculation"

© 2026 Boyum IT Solutions A/S

Field	Description
only in Precalculation	If this option is active, the position is only valued in the Precalculation, but is not transferred to the work order and is also ignored in the scheduling function in the material requirements list. *Field in Document: workorder_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 2* *Example:* *00**0**000 = Pos 2 = 0 = Off* *01**1**0000 = Pos 2 = 1 = On*
Block Login	Block the login or receipt of order times If active, the affected resource is not reserved and a logon/logoff or time-related message of any type is blocked (the "Clocking mandatory" option must be deactivated). *Field in Document: workorder_lock* *Field in Database: BEAS_FTAPL.FLAGS, Pos 3* *Example:* *000**0**00 = Pos 3 = 0 = Off* *001**1**000 = Pos 3 = 1 = On*
Confirm in units	Confirm in Units Determines in which UoM quantities will be reported for this operation sequence via the terminal. ***Example***: Production Unit = kg Confirm unit = Liter, Factor = 1.2 If you create a time receipt with 1 Liter, you confirm 1,2 kg in production unit This is considered in Production Time Receipt External production - Collective Purchase Order.
Factor per Production UoM	Unit conversion factor Determines the conversion factor between time receipt unit and the production unit of the Assembly ***Example:*** Example: Production Unit = kg

© 2026 Boyum IT Solutions A/S

Field	Description
	Confirm unit = Liter, Factor = 1.2 If you create a time receipt with 1 Liter, you confirm 1,2 kg in production unit
Block closing with less quantity	If active, the planned quantity needs to be posted If this option is enabled, the operation can only be completed with a time receipt if: - the full planned quantity was reached - the reported quantity of the previous operation (mandatory to report) was reached, the quantity is larger than 0 and the previous operation is closed. Note: The operation can be closed at any time. *Field in Document: workorder_minqtylock* *Field in Database: BEAS_FTAPL.FLAGS, Pos 4* *Example:* *000**0**00 = Pos 4 = 0 = Off* *000**1**00 = Pos 4 = 1 = On*
Invisible in post-calculation	Define the visibility on post-calculation. If active, the position is hidden in the post-calculation – for planned and actual cost calculation. *Field in Document: postcalc_unvisible* *Field in Database: BEAS_FTAPL.FLAGS, Pos 5* *Example:* *00000**0** = Pos 5 = 0 =*
Resource optimization	Activate resource optimization. If enabled: If the stored resource is part of a resource group, at scheduling, the resource is automatically selected from the group with the shorted lead time. Note: Option can only be changed if the APS has been licensed. ***See*** Resource group Alternative Resources

© 2026 Boyum IT Solutions A/S

Field	Description
	Field in Document: resourcenoptimization *Field in Database: BEAS_FTAPL.FLAGS, Pos 6* *Example:* *000000 = Pos 6 = 0 = Optimization is on* *000001 = Pos 6 = 1 = Optimization is off*
Slave op. sequ. belongs to Master	Define which operation is the master-operation for this operation It is possible to define a master operation. An order time receipt is done automatically on all operations if a quantity or time has been receipted via the master operation. Thus a receipt can be done for multiple operations at once. ***Example:*** Master-operation 10 Slave-operation 20 Slave-operation 30 If an order time receipt is done on master-operation 10, so is an receipt done on position 20 and 30, as well. Important: A concatenation of multiple operations is not possible, which means that a master-operation cannot be a slave-operation at the same time. **Notes:** Master-Slave operations are not connected to or affect parallel resources or parallel working. Not supported in WebApps and by the "Open QC Order after transaction" setting. **Master-Slave operations - time receipt creation** **IMPORTANT NOTE:** When the user defines Master-Slave operations when creating a Time receipt for a "master" operation, Beas first generates all Time receipts for the slave operations, and *then* the time receipt for the master operation. Due to this sequence, if something fails during the time receipt process of the master operation, the previous Time receipts are **not** rolled back.

© 2026 Boyum IT Solutions A/S

Field	Description
	Working with master slave ***See***: Configuration wizard - Master-Slave
Not selectable	Only operation catalog: If active, the entry is hidden and can no more be selected.
Image	Image for this operation, for better recognizability ***See*** Image selection.
Color	With this color the operation is displayed in all screens. ***See*** Color selection.
Synchronization	Determine the behavior at import At import or inserting a routing position, the routing is always deleted completely and re-imported. Use the settings to manipulate the behavior on routing position level. **yes:** Position will be deleted before the import **do not delete:** Position will not be deleted, but can be overwritten **no:** Position will not be deleted and cannot be changed.

7.6.1.1.1.4 Tool

The tools required for an operation can be defined in the Tool tab. It is also possible to assign parallel or alternative resources and utilities under the subsequent tabs. One tool can only be used in one place because of capacity planning. You can set up a new tool under **Inventory > Tool Administration > "New".**

Operation catalog - Routing - Production routing - Calculation

Edit routing

External operation

General

Extended

Tools

Utilities

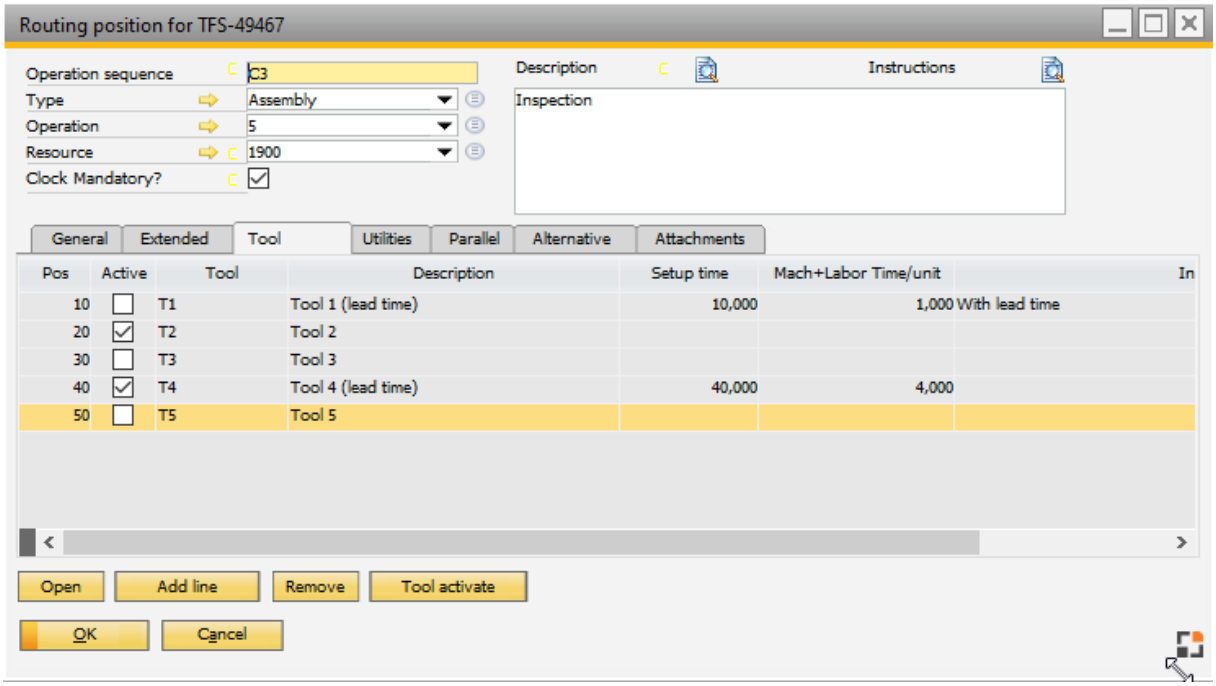
Parallel

© 2026 Boyum IT Solutions A/S

[Alternative](#)

[Documents](#)

[Special functions](#)



Window artikel_arbplanpos_edit

Field description of the Tool tab

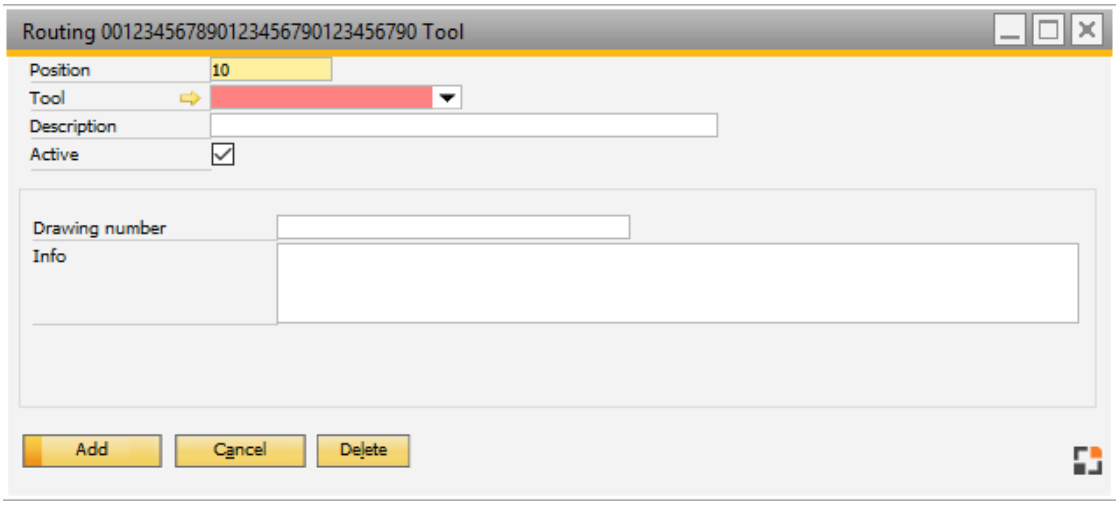
Field	Description
Position	Consecutive number, but not a primary key. The list output is sorted by this number.
Tool	Tool key (selection from master data / tools).
Active	Checked if entry is active.
Description	Designation of the tool (cannot be changed).
Defines lead time	Does the tool determine the lead time? If enabled, the default times of the tool are transferred to the operation. In this case, the tool influences lead time. Only values are used, which had been entered in "planning". Empty fields are ignored. If more than one tool was stored in an operation and for both "determine lead time" was enabled, only one tool can be activated.

© 2026 Boyum IT Solutions A/S

	Activating or exchanging the tool is possible in Work order structure or in APS – graphic view.
Setup time	Setup time.
Mach + Labor Time/unit	Job time. Machine + operation time per unit

Adding a new tool

To assign a new tool to the selected operation sequence, click on "**Add line**" under **Routing > Tool tab** and the following window opens:



Window artikel_arbplanpos_Edit_werkzeug_edit.psr

Field	Description
Position	Field used to sort the tool lists from the routing. It is a consecutive number but not a primary key.
Tool	Field used to assign the tool to perform this operation. This field is mandatory.
Description	Field used to display the tool description. This field cannot be changed because it automatically comes from the chosen tool.
Active	Check box field used to set the tool as active in the routing.

Important: Tools that define lead time cannot be simultaneously active for the routing position. Only one of them can be active at the same time, but the active tool can be switched directly in work orders. The time information is copied to the operation. Therefore, the user must check one tool as “Active”; all other tools that define lead time are deactivated automatically.

© 2026 Boyum IT Solutions A/S

(Previously Resources tab, in which tools, alternative work sequences, and parallel work sequences were listed in a table)
A second row of buttons has been inserted here now. The top row of buttons relates to the tool list. Care should be taken here during processing.

General tab

Field	Description
Drawing Number	The technical drawing number. This field cannot be changed because it is read from the chosen tool.
Info	Additional free text information on the tool entry.

Planning tab

This tab is only active if you have selected a tool with capacity planning.

Field	Description
Idle Time	Defines the time in hours after which the tool can no longer be used for other work orders (e.g. cooling, quality control, maintenance, etc.).
Next work sequence begins after idle time	If activated, the next work sequence can only be started after the idle time. Example: If the tool is a bin and this must be cooled before the finished product can be removed from the bin, the next work sequence can only be started after cooling. However, if the idle time is for quality control of a tool, you can begin with the next work sequence immediately (i.e. switch deactivated).

Default Time tab

This tab is only active if the tool defines the throughput time.
If this tool is activated (only one tool can ever be activated which defines the throughput time), its throughput time information is copied to the operation.

Note:
Only fields are considered where entries have been stored in the tool. Consequently, you can remove all entries. Work step and use factor are only used if > 0.

Example:

© 2026 Boyum IT Solutions A/S

Setup time of tool = nothing entered
Processing time in tool = 5 mins
Setup time is not changed in operation, thus it comes from tool.

Please make sure that you work the same way for all tools.

If a tool which determined the time is activated, it is transferred automatically to the operation at saving.

Field	Description
Setup time	Enter the setup time to start using the tool. Time specified per "Time per". **Important**: This replaces the operation setup time when this tool is used.
Processing time	Set the time the tool takes to produce the items. This is the actual processing time per unit produced in the routing position. The processing time for a unit of quantity per "Time per" in consumption unit per "Quantity per" finished parts. **Note**: Secondary processing times cannot be specified here.
Quantity per ..	Defines the number of finished parts in consumption units during the processing time refers to, e.g. 10 minutes per 1000 kg.
Time per	Specify whether the time unit for the setup and production processes is hours or minutes.
Use Factor	Split the production time amongst more finished goods.
Number	Number of required work steps e.g. 10 work steps in "processing time".
Utility	Utility factor, e.g. 10 units are produced at once per step or hub and per processing time.
Cost Element	Set the account in which the standard costs from the usage of this tool is booked. Accumulated costs are written to this cost element.

General settings on tools:
See: Tool administration.

© 2026 Boyum IT Solutions A/S

back to Routing

7.6.1.1.1.5 Utility

Utilities are tools or other resources required for this work step / routing. A utility is a simplified form of tool without inventory maintenance, without maintenance, and without other specified costs.

Operation catalog - Routing - Production routing - Calculation

Edit routing

External operation

General

Extended

Tools

Utilities

Parallel

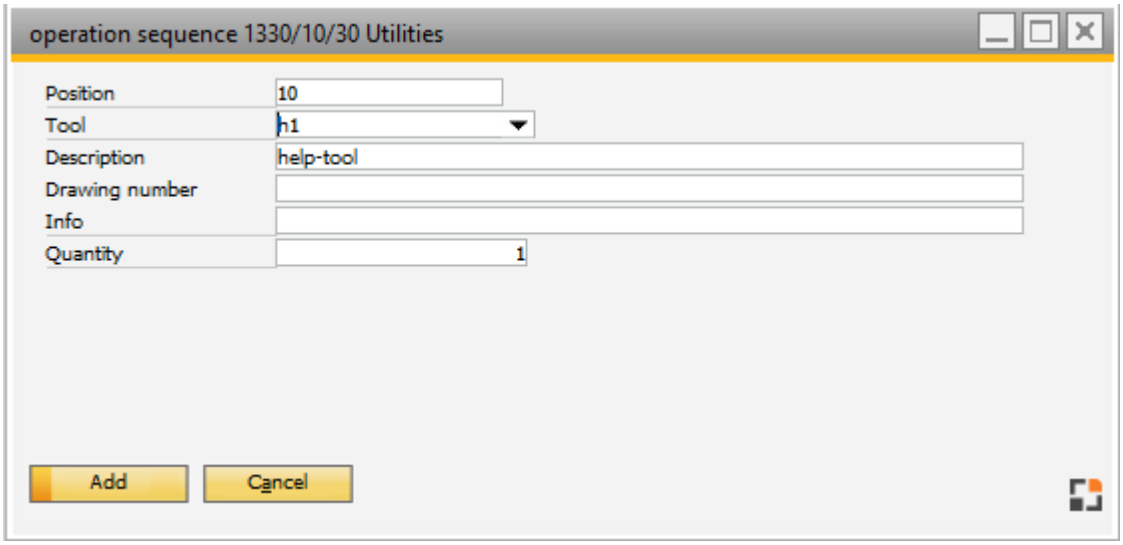
Alternative

Documents

Special functions

Add a new Utility

To assign a utility, click on "**Add line**" under **Routing > Utility tab** and the following window opens:



Window artikel_arbplanpos_edit_hilfswerkzeug_edit.psr

Field descriptions

Field	Description

© 2026 Boyum IT Solutions A/S

Position	Sort the utilities list from the routing. It is a consecutive number, but not a primary key.
Utilities	Utility key (selection from Master Data / Tools / utilities). Assign the utilities to perform this operation. This field is mandatory.
Description	Displaya the utilities description. This field cannot be changed because it is read from the chosen utilities.
Drawing Number	The technical drawing number. This field cannot be changed because it is read from the chosen utilities.
Info	Additional free text information.
Quantity	Specify the number of utilities needed to perform the operation. This field is for information only and has no influence on the routing position.

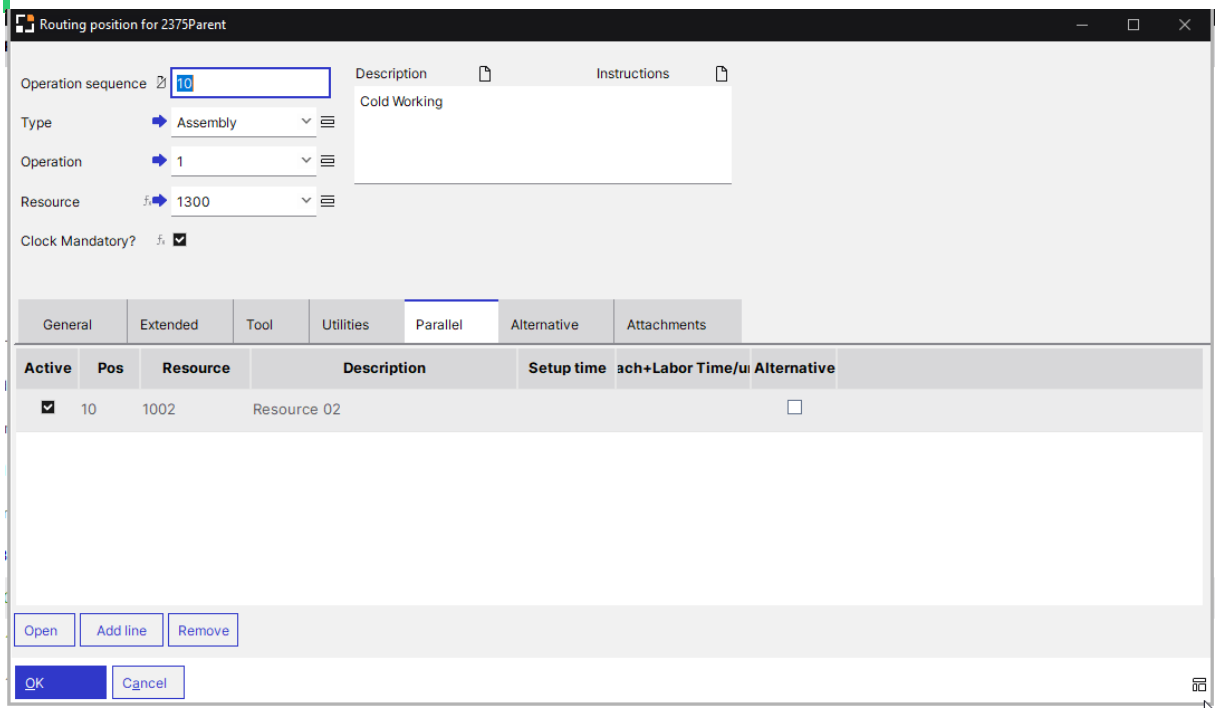
Buttons:

Open: Click button to open the editing window of the selected utility (***see*** image above "Add a new Utility")

Remove: Delete utility for this routing position.

7.6.1.1.1.6 Parallel

Production > Work Order > **Open** WO position > **Open** operation > "Parallel" tab



Window arbplanpos_edit.psr

© 2026 Boyum IT Solutions A/S

In the Parallel tab, Beas displays a list of all resources that will be used in parallel with the main resource assigned in the Header. The user can insert, edit and delete resources.

Important: Only use parallel resources if a separate time planning is required for parallel resources.

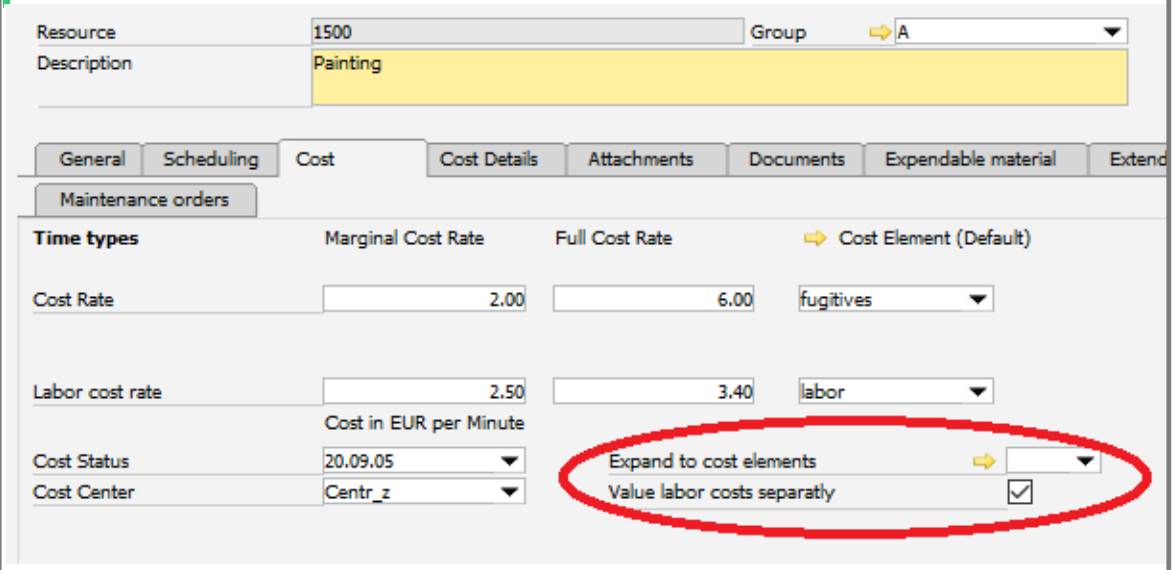
NOTE: Parallel operations do not consider quantities and do not manage Open/Close status!

- Alternative possibilities:

a) Define personnel costs separately. Thus these costs will be calculated separately.

b) Up to 4 separate cost elements can be defined, which can also be receipted separately.

PATH: Resources > Resource Master Data XXX > Cost tab.



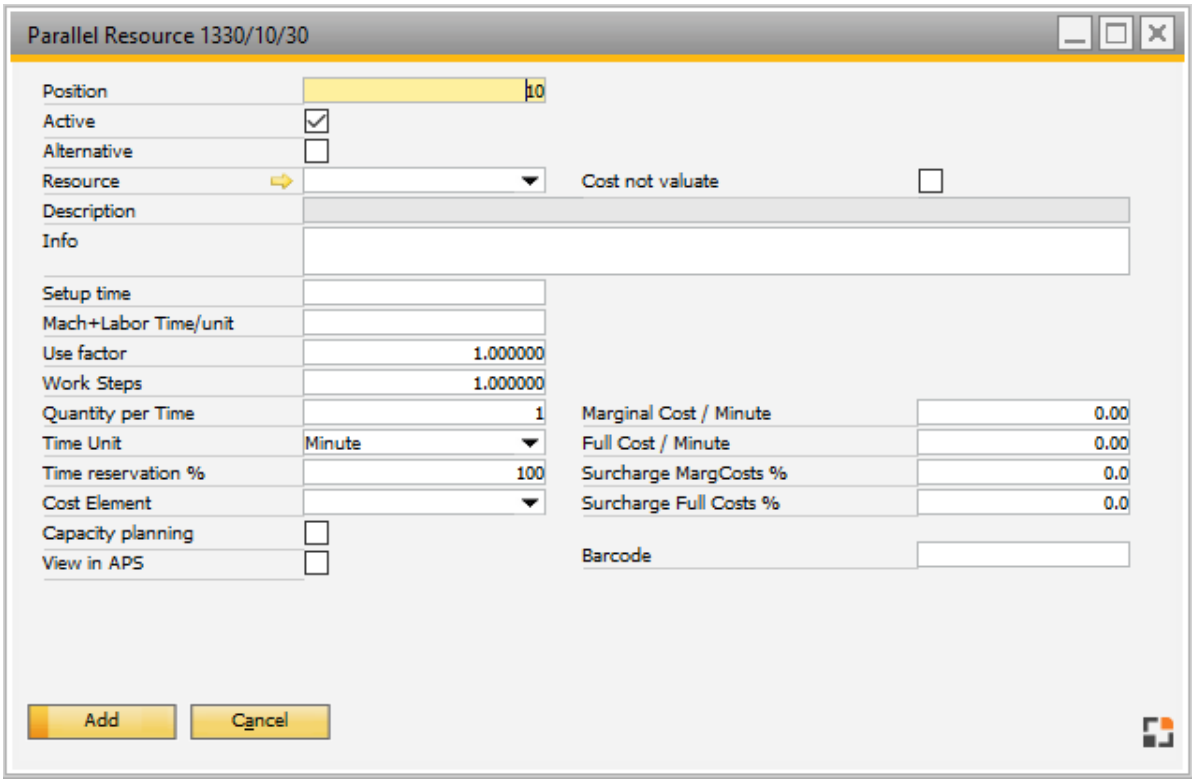
Window stamm_arbplatz_edit.psr

To assign a parallel resource, click on New and a new window opens:

PATH: Inventory > Item report >

1. "Open" an entry >
2. Routing tab >
3. "Open" routing position >
4. "Parallel" tab >
5. "**Open**" / "**Add line**".

© 2026 Boyum IT Solutions A/S



Window artikel_arbplanpos_edit_parallel_edit.psr

Field	Description
Position	Used for sorting the parallel resource list from the routing. It is a consecutive number, but not a primary key.
Active	Set parallel resource active. If enabled, only one position can be active. **Important**: Only one parallel resource can be activated which defines the throughput time per routing. This information is copied to the operation, therefore, the user must check one parallel resource as "Active", and all other resources should have "Active" unchecked.
Alternative	Set if this parallel resource can also be alternative to other parallel resources for the same operation.
Resource	Resource ID of the parallel resource **Note**: No external resources or resources with extended cost rates , for example personnel costs, are allowed.

© 2026 Boyum IT Solutions A/S

Cost not valuate	Determine whether to consider resource costs in calculation If enabled, the resource costs of this parallel resource are ignored. Precalculation and post-calculation are affected. Costs created with time receipts are not taken into account. Use this option if the cost is included with the main resource. Disabled by default. *beas 9.1 PL: 08*
Description	Description of the resource that comes from the resource master data and cannot be changed.
Info	Additional free text information.

Throughput Time area

This information relates only to Business performance, not to the throughput time of the work sequence itself, as this is ALWAYS parallel to the main work sequence and always has the same start and end time.

Field descriptions

Field	Description
Setup time	Setup time of the parallel resource process.
Mach+Labor Time/unit	The Mach+Labor time for a unit of quantity using the *Time unit* in consumption units *Quantity per time* finished parts. **Note**: Secondary mach+labor times cannot be specified here.
Use factor	Split the production time amongst more finished goods ***See*** Calculation of target time.
Work steps	Used as a multiplication factor for the production times ***See*** Calculation of target time.
Quantity per Time	Used as a multiplication factor for the production times
Time Unit	Defines times in hours or minutes. To register a processing time independent from the quantity you can enter 0. ***See*** Calculation of plan time.
Time reservation (%)	If no setup and edit time was entered, the time of the main operation * time reservation is used as reference.

© 2026 Boyum IT Solutions A/S

	At which % should the resource be scheduled? ***Example***: The parallel resource is an employee operating four machines at once. He needs to be available for the machine at the whole time but only at 25%. ***Example***: The parallel resource should work during 30% of the main resource time, the user can enter the value "30" in the Time Reservation field, and Beas calculates the times for the parallel resource automatically. If the setup time or processing time is entered, in Precalculation this value is ignored. ***See*** Calculation of plan time.
Cost element	Accumulated costs are written to this cost element.

Technical information:
Parallel resources share a database table with tools, utilities, and alternative operations.
Structure of bar code on routing card: 6-digit beas_ftapl.number + 3-digit beas_ftapl_wkz.pos_id

back to routing

7.6.1.1.1.7 Alternative

Operation catalog - Routing - Production routing - Calculation
Edit routing
External operation
General
Extended
Tools
Utilities
Parallel
Alternative
Documents
Special functions

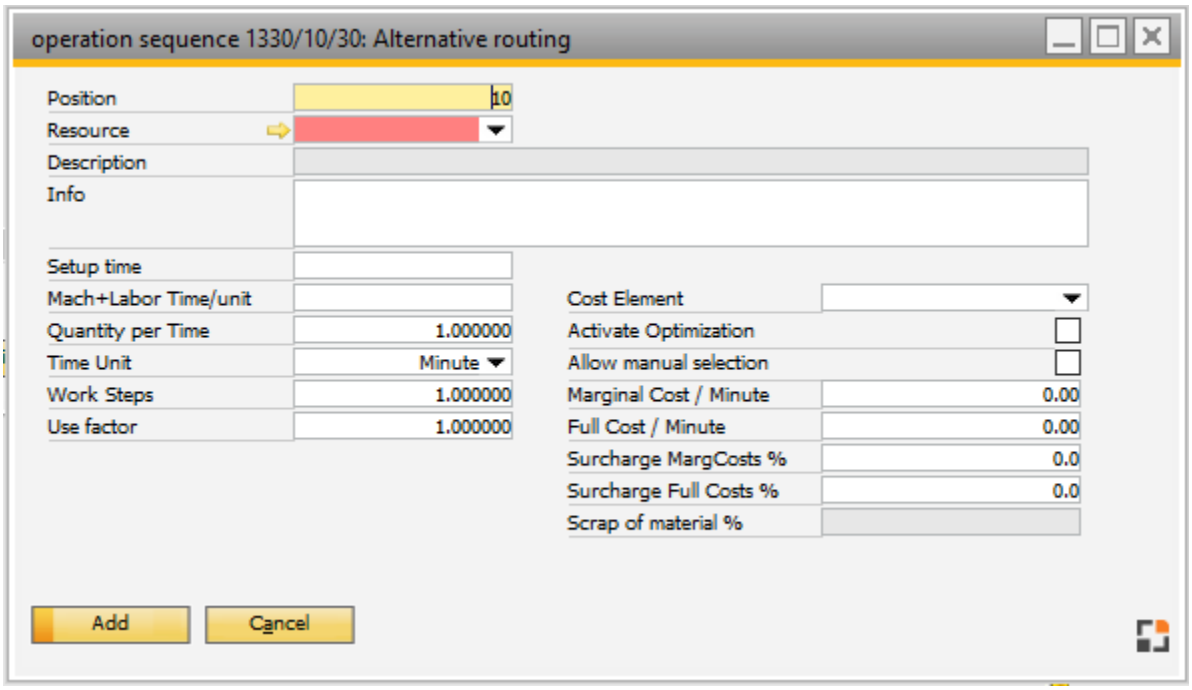
In this tab you can define alternative resources related to a routing position.
In APS and Work order you can change the alternative resource with one mouse-click.

© 2026 Boyum IT Solutions A/S

The alternative resource can have its own parameters as setup time, processing time etc.

The option "Optimization"checks whether a faster production would be possible using this alternative resource.

The user can insert, edit and delete resources. To assign an Alternative resource, click on **Add,** and a new window opens:

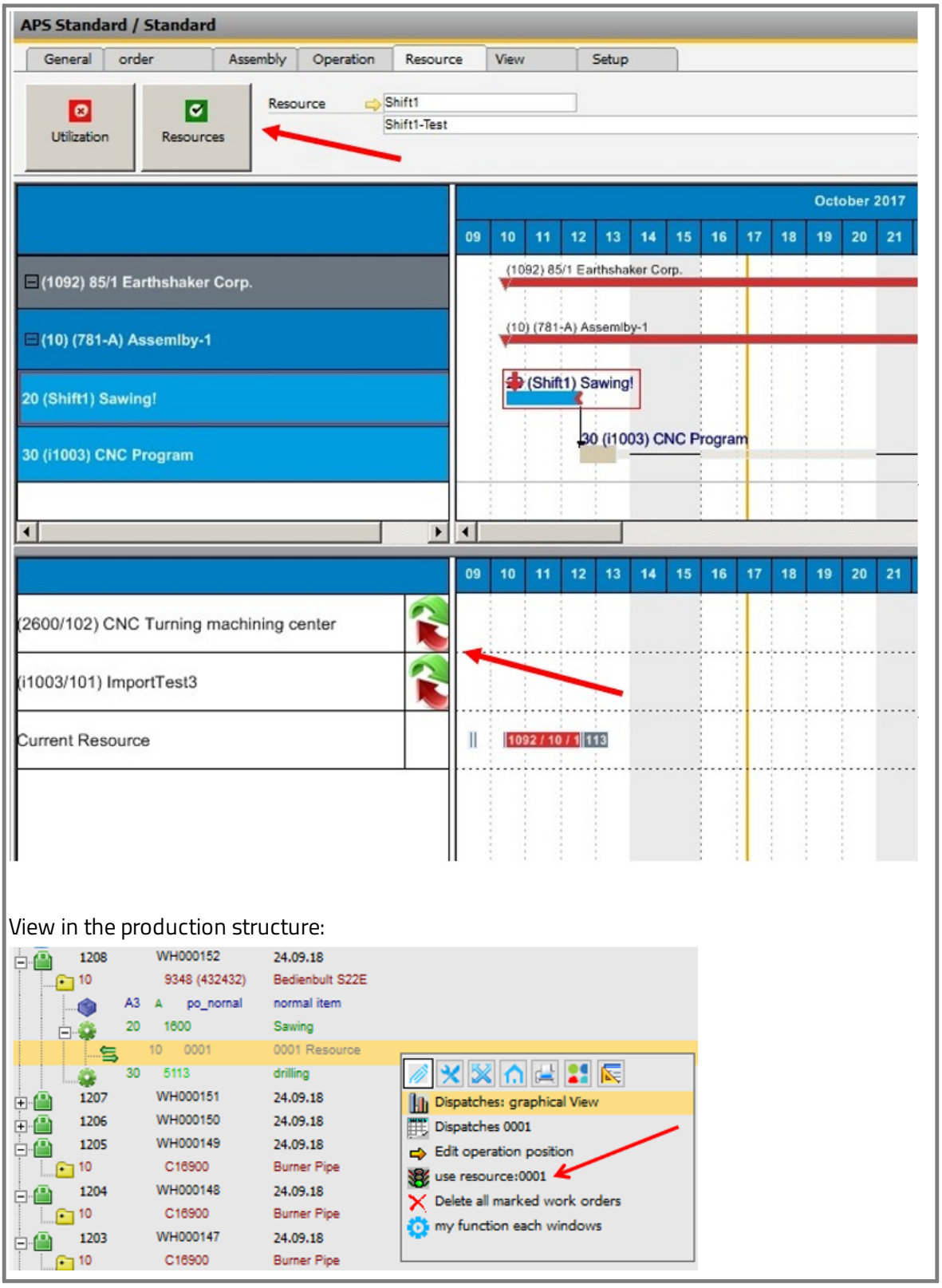


fert_arbplanpos_edit_alternativ_edit, artikel_arbplanpos_edit_alternativ_edit, stamm_ag_alternativ_parallel_edit

- The alternative resource can be selected manually in APS – graphical view and in production structure view.

  Selection in the APS view:

© 2026 Boyum IT Solutions A/S



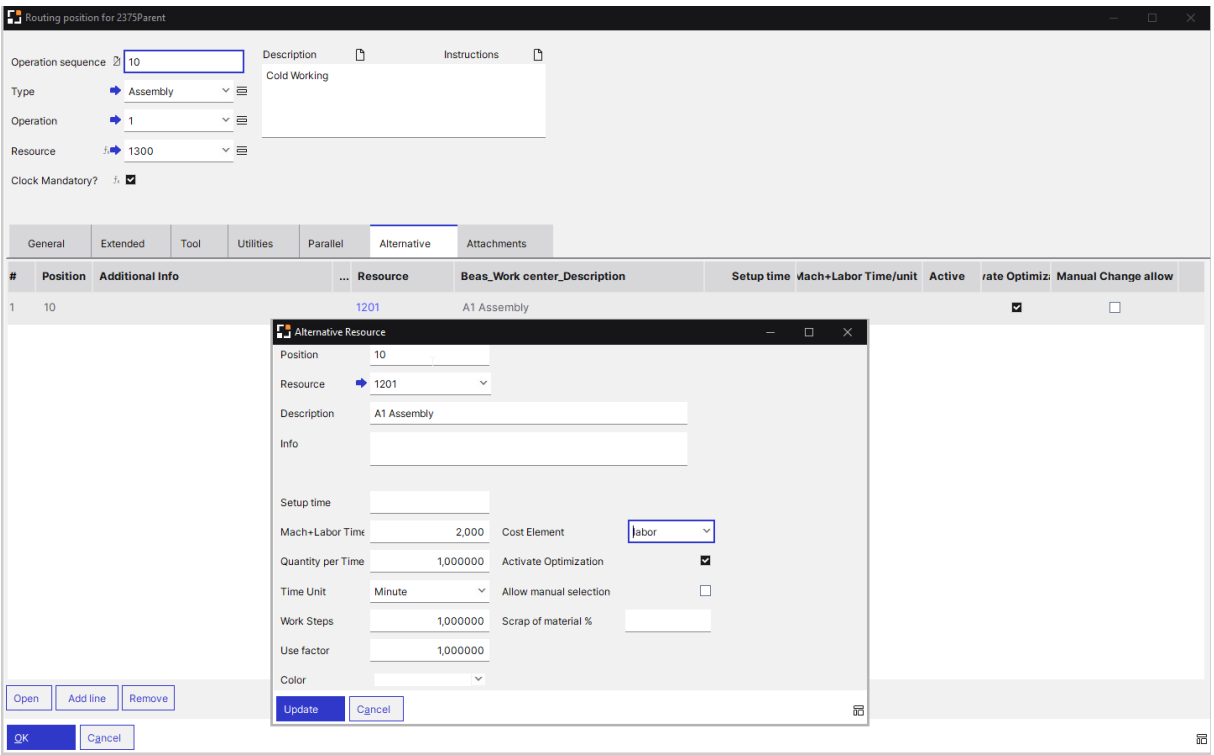
View in the production structure:

See Overview alternative resources

© 2026 Boyum IT Solutions A/S

The alternative resource can be selected manually in the APS – graphic view and Production structure display.

Note: Alternative resources are not supported in the Precalculation.



Field	Description
Position	Used for sorting the parallel resource list from the routing. It is a consecutive number, but not a primary key.
Resource	Select the resource ID of the parallel resource from the existing resources. The alternative resource can be selected manually in the APS - graphic view and production structure display.
Description	Description of the resource that comes from the resource master data and cannot be changed.
Info	Additional free text information.

Throughput Time area

Field	Description
Setup time	Setup time of the alternative resource process. Default time can

© 2026 Boyum IT Solutions A/S

	be specified in the *Quantity per time* parameter.
Mach+Labor Time/unit	The Mach+Labor time for a unit of quantity using the Time unit in Production UoM Quantity per time finished parts. **Note**: Alternative resources do not manage Secondary+Labor times. Therefore, if a main resource manages secondary times when switching to an alternative resource, the information of the secondary values in the operation will be lost, especially if you want to return to the main resource again. In this case you will have to add those data manually or refresh the order if applicable.
Quantity per Time	Defines the number of finished parts in Production UoM to which the processing time refers, e.g. 10 minutes per 1000 kg. ***See*** Routing position.
Time Unit	Defines whether times are specified in hours or minutes. ***See*** Routing position.
Work Steps	Number of required work steps used as a multiplication factor for the production times e.g. 10 work steps in "processing time" are required .
Use factor	Use factor to split the production time amongst more finished goods, e.g. 10 units are produced at once per step or hub and per processing time.
Cost element	Accumulated costs are written to this cost element.
Activate Optimization	If active, define whether Beas should automatically select the most adequate resource, amongst the main and alternative resources in the APS calculation. The resource is replaced automatically.
Allow manual selection	⊟ Allow the manual selection of this alternative resource. This alternative resource can only be selected manually if this option is enabled. The event is canceled and receipted with the error message *'(aktivaplatz440)Resource cannot be selected when flag 'allow manual change' is off'* if this option has been disabled and an attempt has been made to select the resource. **Note**: A change is only possible if change has been allowed according to the production position (**Production position**

© 2026 Boyum IT Solutions A/S

	> **Allow change** has to be activated).
Scrap of material %	Define Scrap of Material. If the user uses this alternative resource, the system replaces the Scrap material % too and recalculates the scraps per Material for all routing positions. ***See*** Concept Scrap of Material Note: If you switch the resource with another Scrap of Material entry in the work order, the system calculates the new quantity of the related BoM Position, but not the quantity of order related sub assemblies. ***See*** this video: *Beas 9.3 PL 1*

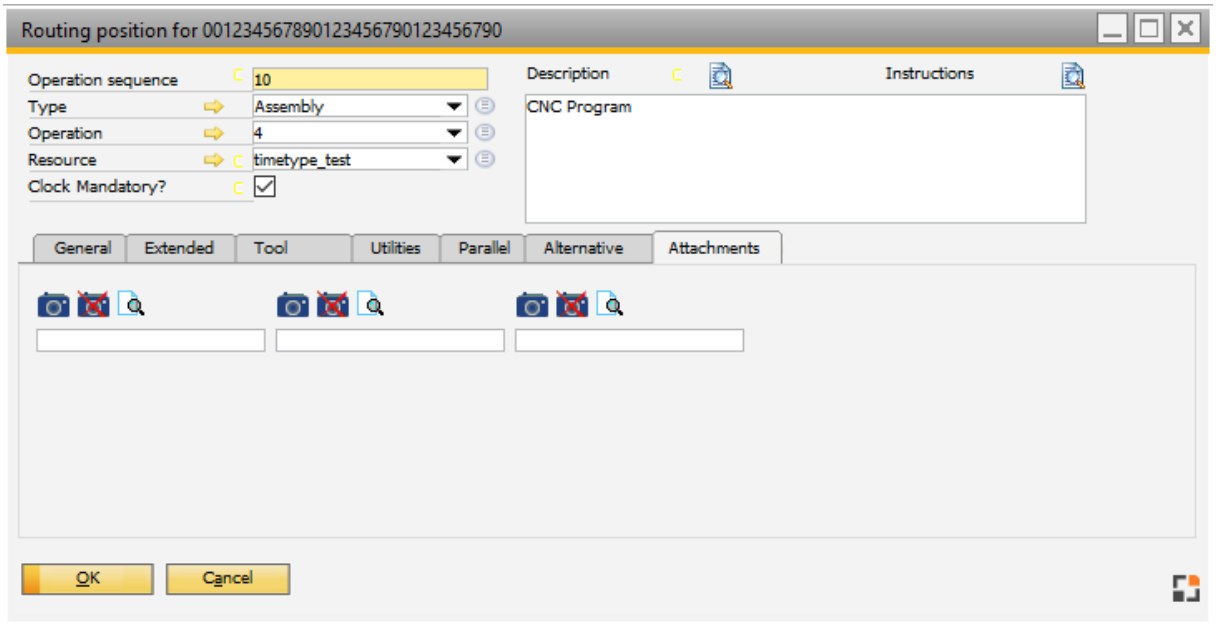
7.6.1.1.1.8 Attachments

The Attachments tab is used to attach images and documents to the resources.
Only three documents or images can be stored per operation. The pictures/documents stored here can be viewed in Terminal – Pool list (not in WebApps)

Operation catalog - Routing - Production routing - Calculation
Edit routing
External operation
General
Extended
Tools
Utilities
Parallel
Alternative
Documents
Special functions

There are three buttons for each field:

© 2026 Boyum IT Solutions A/S



Window artikel_arbplanpos_edit.psr

Icons

Traditional style	Boyum Style	Description
		The camera button enables the user to select an image or document to attach.
		The camera button marked with an "X" removes the attachment.
		The document with a magnifying glass opens the attachment.

All attachments included in this tab are available in the FDC Terminal.
For more information on storing images ***see*** Window.

back to external operation op.sequ.

7.6.1.1.1.9 Special functions

More functions are available in the routing browser view.

Operation catalog - Routing - Production routing - Calculation
Edit routing
External operation
General

© 2026 Boyum IT Solutions A/S

Extended
Tools
Utilities
Parallel
Alternative
Documents
Special functions

Routing load	Loads the routing from another assembly. If the assembly already has a routing then the loaded plan is added at the end.
Save routing in item	Copies routing into the item to be specified
Change Log	If the log is activated, it can be viewed here.
Batch changes	Multiple routings can be changed using this function. ***see*** Batch change routing

7.6.1.1.2 Resource

Resources can be assigned to a routing. Resources include, e.g. another operation (parallel operation), tools and other accessories required for the processing or setup of the machine or an alternative operation.

These are dispatched through Capacity Planning and included.

Field Description

Field	Meaning
Position	Unique position number – normally in increments of 10 to add subsequent positions. This number also serves as sort criterion for the terminal display.
Type	Selecting the resource type with a right-click.
Resource	Designation of the resource – depending on the type selection, the resource can be selected with a right-click.
Description	Designation of the resource – is automatically carried forward after selecting the resource.
Quantity	Overall demand of the resource, e.g. number of tools.
Setup time	The setup time in 'per' according to the field "Time per".

© 2026 Boyum IT Solutions A/S

Mach+Labor Time/unit	The mach+labor time in 'per' according to the fields "Time per" and "Quantity per".
Additional Info	Any additional information displayed at the FDC terminal of a tool.
Utility factor	The utility factor – the inverse of work steps. ***See*** Calculation of target time. ***Example***: By sawing a board apart, the material is provided for two finished goods - the utility factor is thus 2.
Number factor	The opposite to the utility factor. ***Example***: Two steps are necessary to produce a part. The time per 1 cut is stored, the quantity of the required cuts is stored with number.
Quantity per ..	The requirement time is specified for each number indicated here per assembly to be produced. ***Example***: For 1000 the time is per 1000 finished parts.
Time by	Times are specified in hours or minutes.

Types

Type	Meaning
Tool	Tools required for the operation. Any number of tools can be stored. Tools also have a time requirement and can be planned like resources. If "Only 1 tool" is activated in the options, only one tool is ever active and the other tools are the alternatives.
Utility	Required utilities (only information).
Parallel	A parallel resource can be a second person, machine required in parallel etc. Parallel resources require time (capacity planning) and costs (Precalculation). Time receipt can be reported separately for a parallel resource. (Info for bar code: 6-digit beas_ftapl.number + 3-digit beas_ftapl_wkz.pos_id)
Alternative	Any number of alternative resources can be inserted. If the order has been created, you can use the production structure subsequently to specify which alternative should be used. To do this simply click in the structure view: Use this alternative. All data specified here is replaced in the operation at that moment.

7.6.1.1.3 Calculation of target time

The actual plan time in minutes is calculated as follows:

© 2026 Boyum IT Solutions A/S

Special feature: As with Bill of materials, there is also a fixed quantity calculation for routings. If the "quantity per" factor is 0, the assembly quantity is not considered.

Capacity Planning

```
  (
    (
      (Machine time + Labor time + Mach+labor time)
      if "per assembly" > 0 then
        (* (Order Quantity + Scrap) : (per assembly))
    : Utility factor
    * Work steps
      * (1 + scrap factor : 100)
    )
 + Set-up time
  )
 * Time factor (1 for minute, 60 for hours)
 * 100/Efficiency rate in %
```

Precalculation, batch calculation

```
 (
  (
      (Machine time + Labor time + Mach+labor time)
      if "per assembly" > 0 then
        (* Lot size : (per assembly))
    : Utility factor
    * Work steps
      * (1 + scrap factor : 100)
  )
 + Setup for calculation
 )
 * Time factor (1 for minute, 60 for hour)
```

The lot size itself depends on

a) calculated quantity

b) defined reject factor

c) stored calculation lot size.

Final costing

```
  (
    (
      (Machine time + Labor time + Mach+labor time)
      if "per assembly" > 0 then
        (* (Order Quantity + Scrap) : (per assembly))
      : Utility factor
    *
      * (1 + scrap factor : 100)
    )
 + Setup for calculation
  )
 * Time factor (1 for minute, 60 for hours)
```

© 2026 Boyum IT Solutions A/S

7.6.1.1.4 Batch change routing

The batch change routing allows you to change / delete or insert multiple items at once.

The sequence is as follows:
1. Set search criteria according to routing items
2. Select items to be changed / deleted
3. If items are changed / created: define the fields to be changed or
   determine the contents of routing items

Call this function via **Master Data > Item Structure > right-click twice > Routing Batch Change.**

Select the items to be modified using the selection criteria, then display the results list.

Change
The routing items to be changed must be selected in the results list. Then select "Edited".

Then, select the field to be modified in "Column", and select the new field value in "New Value".

"Start Change" immediately performs the changes.

Delete
In the display list, select the routing items to be deleted and then delete them using the "**Delete**" button. Deletion is permanent and cannot be undone.

Merge
Select the items after which a new item should be inserted.
Use "MERGE" to open a new window. Here, you can determine which field should be populated with which content.

Use "Start Merge" to merge the routing items.

Note the following when merging or changing items:
The entries to be changed / merged are processed from top to bottom.
If you change the "Operation" field, all fields are copied from the operation template.
For this reason, the "Operation" field should always be set first if it is to be changed.

© 2026 Boyum IT Solutions A/S

Resources such as tool, parallel resource, alternative resource are not copied and not changed.

7.7 Bin Locations (SAP)

Beas supports SAP Bin Warehouse Management.

Limitations:

- if you want to use the Default Warehouse, do not fill the bin location
- all restrictions are supported, which supported by SAP DI-API
  In dropdown and list views the following restrictions supported:
  "Inactive" and "Transaction Restriction" for
  * All Transactions
  * Inbound Transactions
  * Outbound Transactions
  Transfer is an In- and Outbound transaction.
- No support of "maximum stock" or "minimum stock per Bin location

Sorting in drop-down and list views:
- always by Alternative Sort Code

Backflush, Pre-Assign Functions:
- no support from any Rules

Allocation: Target warehouse: SAP Bin Warehouses are not supported.
Picking apps Terminal 2.1: SAP Bin Locations are not supported.

Drop-down by weight or Volume is not supported.
SAP Bin Barcode is not supported.
Receiving Bin Location is not supported.

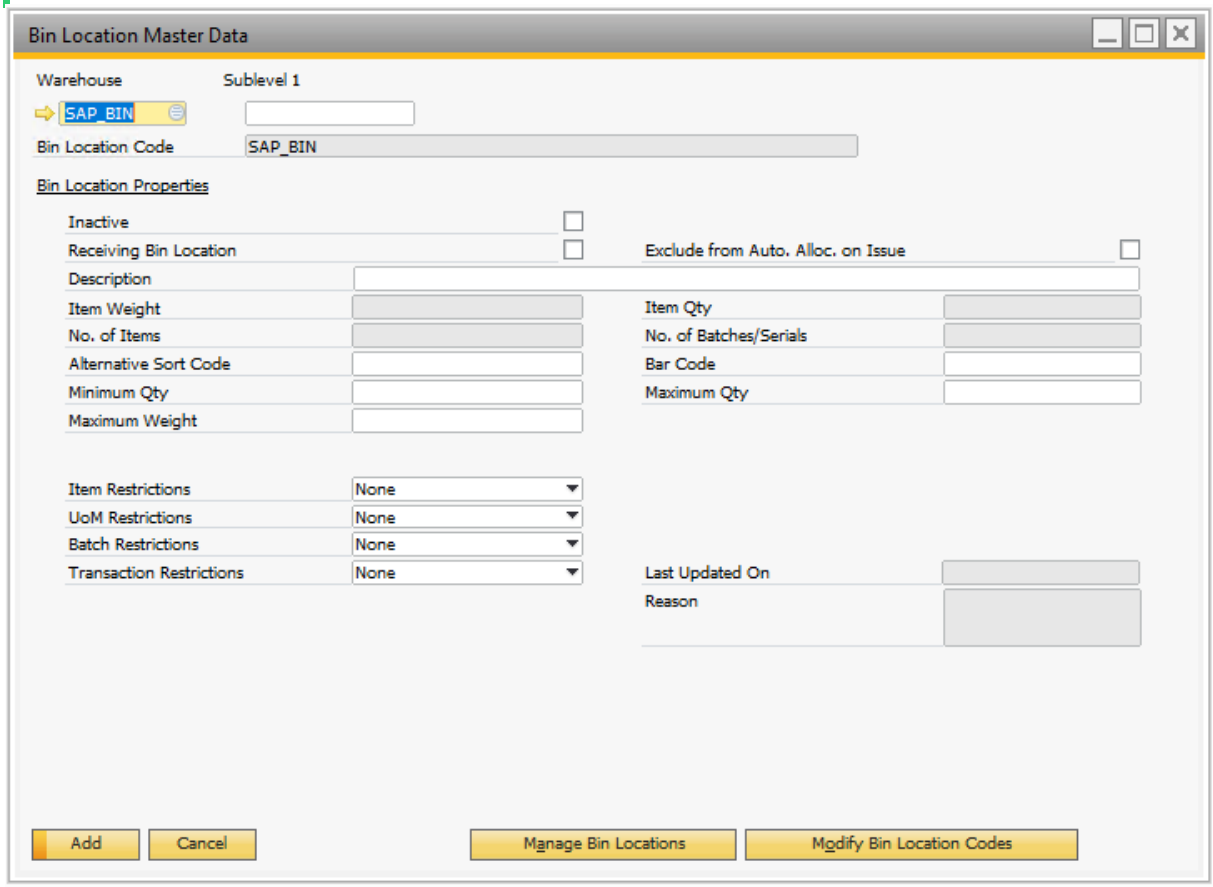
Additional functions do not support SAP bin location:
Beas inventory (all types)
Beas batch split

7.7.1 Bin Location Master Data (SAP)

With Beas Version 9.3 PL 2 SAP Business One is supported.

© 2026 Boyum IT Solutions A/S

PATH: Inventory > Bin Locations > Bin Location Master Data.



Window beasgui.sbo.psr

Note:

Beas does not support SAP Bin Management in all windows. For more information ***see*** Bin Location.

7.8 Warehouse Management

In warehouse management the following functions are available:

- Various warehouse reports
- Administration of bin locations
- Administration of extended warehouse settings.

Warehouse master data

Open documents (Beas)

Inventory list

Bin location system check (Beas)

© 2026 Boyum IT Solutions A/S

Bin location correction (Beas)

Beas supports different Bin Management types:

SAP Bin Warehouse management

Beas Bin Warehouse management

WMS Bin Warehouse management

Beas Bin Warehouse management was created for SAP Version before SAP integrated an own Bin Warehouse solution.

For all new installations: Use SAP Bin Warehouse management

SAP Bin Warehouse management is supported with Beas 9.3 PL 2.

- Currently not all functions are supported. More information:

Beas supports SAP Bin Warehouse Management.

- **Limitations:**

- if you want to use the Default Warehouse, do not fill the bin location
- all restrictions are supported, which supported by SAP DI-API
  In dropdown and list views the following restrictions supported:
  "Inactive" and "Transaction Restriction" for
  * All Transactions
  * Inbound Transactions
  * Outbound Transactions
  Transfer is an In- and Outbound transaction.
- No support of "maximum stock" or "minimum stock per Bin location

Sorting in drop-down and list views:
- always by Alternative Sort Code

Backflush, Pre-Assign Functions:
- no support from any Rules

Allocation: Target warehouse: SAP Bin Warehouses are not supported.
Picking apps Terminal 2.1: SAP Bin Locations are not supported.

Drop-down by weight or Volume is not supported.

© 2026 Boyum IT Solutions A/S

SAP Bin Barcode is not supported.
Receiving Bin Location is not supported.

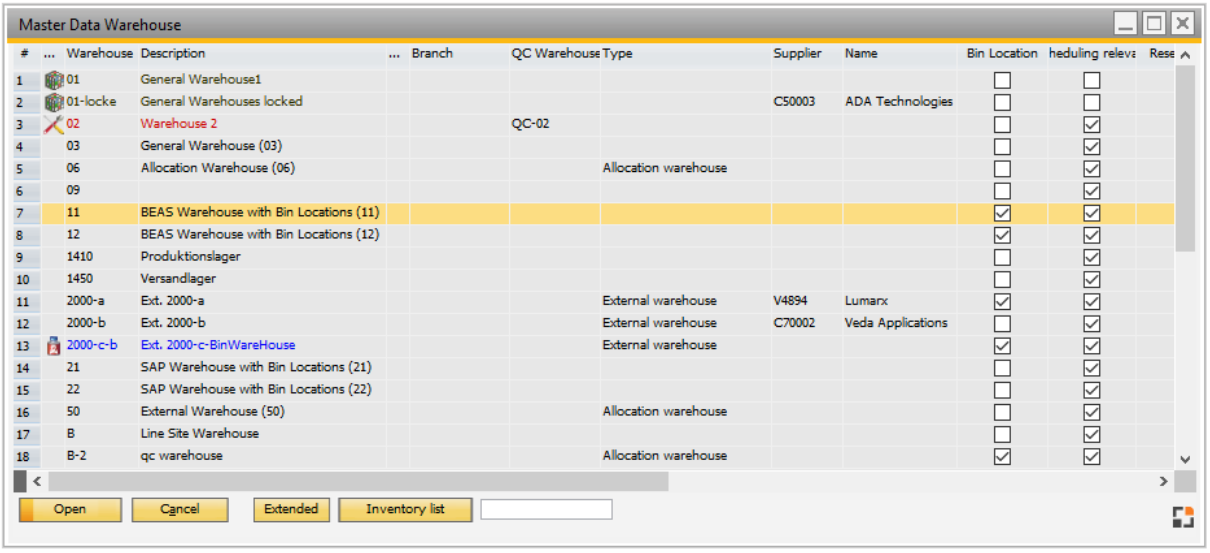
Additional functions do not support SAP bin location:
Beas inventory (all types)
Beas batch split

7.8.1 Warehouse master data

In this window you can administrate:
- SAP Warehouses
- Extended settings for SAP Warehouse, related to Beas functions
- Beas Bin Management

From this browse window you can access general warehouse settings. Via window settings additional columns are available. The list is dynamically adjustable, templates are supported.
The correct setup of the master data is an essential prerequisite for the successful and efficient use of Beas.

PATH: Inventory > Warehouse Management > Master Data.



Window bin_whs_browse.psr

Field descriptions

Field	Meaning

© 2026 Boyum IT Solutions A/S

Warehouse	Warehouse ID.
Description	Warehouse name.
Type	Warehouse type .
Supplier	Supplier ID.
Name	Supplier name.
QC Warehouse	The default QC warehouse.
Bin location management	Checked if warehouse has bin locations. Bin location management can be activated at any time, also subsequently for existing warehouses. If there is existing stock, the fields "warehouse area" and "bin" are displayed. Entry is mandatory. After saving, the warehouse area and the bin are created and the complete stock is posted to this bin. Afterwards, using the inventory function, the allocation of stock to bins can be corrected. In this case, no goods movements occur, therefore no postings and no posting documents are created. **Deactivate bin location management:** Bin location management can be deactivated at any time. (Use right-click) In case of existing stock, it is set to 0. Bin location definitions are preserved.
Relevant for Scheduling	If active, this warehouse is considered in MRP.
Reservation, Allocation	If active, this warehouse is considered for reservation and allocation.
Production outflow	If active, this warehouse is available for issuing functions in production (***see*** Edit warehouse master data).
Production inflow	Default setting **No:** any warehouse can serve as receipt warehouse (settings in item apply). **Yes:** exclusively this warehouse is defined as receipt warehouse.
Third party deal	If active, this warehouse will be used for third party deals.
Address Street	Warehouse address.
Blocked	Checked if blocked.
Address City	Warehouse address.

Select a warehouse click "Edit" to edit warehouse areas.

Right-click menu

© 2026 Boyum IT Solutions A/S

Function	Meaning
Open	Open bin location entry to edit (same with button "Edit").
Window settings	Open window settings.
Correction	Open Bin location management correction window (Beas)
Close all open documents	All open documents are closed WITHOUT assignment to bin locations. After that, it is imperative to correct the bin allocations with the repair program. The start of this operation is logged. Automatic corrections (see features below) can be started only after all open documents have been posted. If this is not possible because of errors, the accumulators must be repaired first.
System check	Restore stock based on goods movements protocol (after crash or when differences in bin location tables arise).
Open documents	Display of open documents.
Accumulators: Repair	This action is performed automatically after a manual correction of the stocks. The accumulators may be flawed due to other influences. For ***example***, the error message "stock is not sufficient"could be issued, even though stock is available. In this case, the repair can be done right here.

Buttons

Function	Meaning
Open	Edit warehouse master data : Settings for bin locations, reservation and production.
Extended	Open SAP Business One warehouse master.

back to bin location management

7.8.1.1 Beas Bin Management

Integrated Beas bin location management can manage different types of warehouses.

> Note: For new installation use SAP Bin management.

Warehouses can be defined in a detailed store structure:

Location
- Warehouse
  - Warehouse Area

© 2026 Boyum IT Solutions A/S

Bin location
Level
Row
Compartment

Each warehouse can be subdivided into free definable areas. Size and configuration, as well as colors, can be selected for visualization.

Training unit Bin location management
Beas warehouses - choose bincode

An inventory location is unique per store, but it is permanently assigned to a storage area. An inventory location can consist of 1–3 dimensions, e.g. Row or level+row or level+row+compartment.
The dimensions can be defined freely. With inventory management the following structure can be displayed:

Item
Warehouse Location
Bin location
Batch/series number
RFID
Stock

or for a simple items

Item
Warehouse Location
Bin location
Stock

RFID is another user-definable ID (e.g. an RFID chip).This is deactivated by default, but can be activated using Options / Material Management.

Inventory movement log:

© 2026 Boyum IT Solutions A/S

In addition to the standard SAP Business One movement log, a movement log is kept in parallel per inventory location for inventory location-managed inventory locations.

Integration in Beas

In Beas, bin location management is fully integrated. The selection of the affected warehouses is made before the posting. Furthermore, in many posting windows bins are presented with graphical visualization if such information was stored before.

Activating bin location management for a warehouse

A subsequent activation of bin location management is possible only when the material is charged off and posted thereafter to bin locations.

Inventory / Initial inventory

The first version of Beas inventory location management does not yet include a separate inventory function.
If the inventory is performed via SAP Business One, the entry document generated by the inventory is available under **Materials Management - Bin Location Management - Open Documents**. This can be used to perform bin location allocations.

When using bin location warehouses, it is imperative that you work with the Beas inventory and not with the SAP Business One - Inventory function. The Beas inventory offers initial stocktaking (Inventory Opening Balance function), annual inventory count and regular inventory (Cycle Count Recommendations function). An integrated correction program simplifies inventory management.
For more information ***see*** Inventory.

> Note:
>
> Negative stock is not managed and can lead to errors ! Although negative stock is allowed in SAP Business One we strongly recommend to deactivate this function in SAP Business One.

Mobile registration

Beas bin location management is fully supported by Beas WebApps.

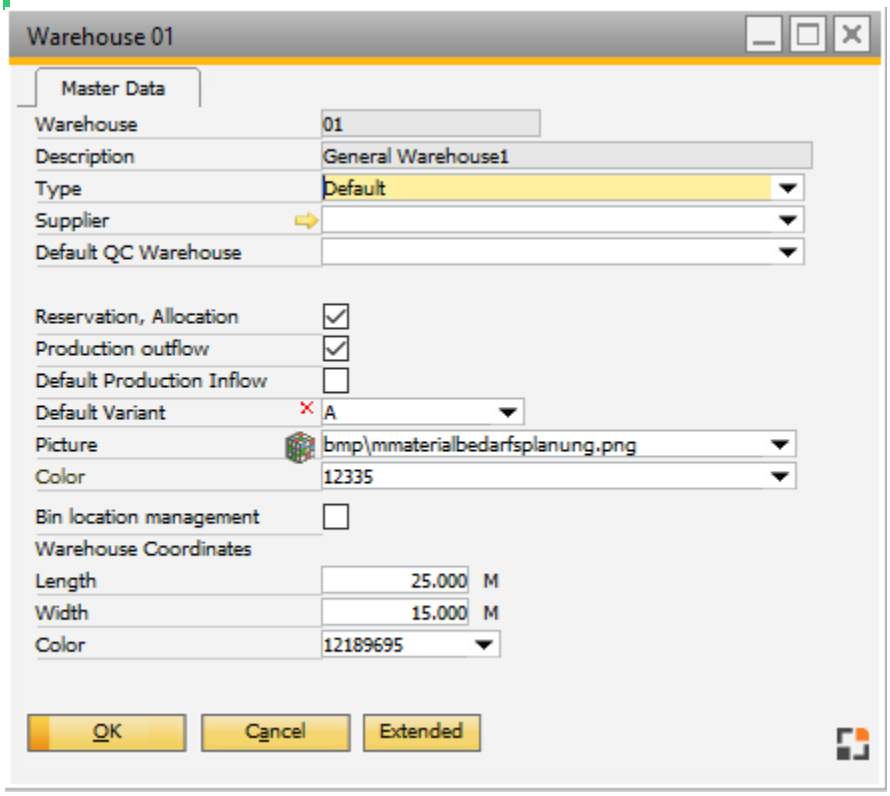
7.8.1.2 Edit warehouse master data

Master data tab

© 2026 Boyum IT Solutions A/S

This window is accessible via Warehouse Management as well as **SAP Business One > Definitions > Warehouse > Button Extended**

PATH: Inventory > Warehouse Management > Master Data > "Edit" an entry.



Window bin_whs_edit.psr

Field	Meaning
Warehouse	Warehouse code For generate new warehouses, please use **Administration > Setup > Inventory > Warehouses**
Description	Name of the warehouse.
(Warehouse) Type	Determine the type of warehouse. Standard warehouse — Available anywhere. Stock is available for all processes. Blocked warehouse — Y — Goods can be posted freely to this warehouse, stock is not available in order recommendation report and production for example allocation warehouse

© 2026 Boyum IT Solutions A/S

Purchase Goods receipt PO and Quality control	W	Goods can be posted freely to this warehouse, stock is available in order recommendation report but not in production. Posting items to this warehouse which have a QC-inspection plan assigned, a QC-order is created automatically. Depending on the settings a QC release can done only via transfer. ***See*** QC-inspection plan - release QC transfer
Allocation warehouse	B	Goods can be posted freely to this warehouse. Used to put goods out for production, in this case, goods are transferred from standard warehouse to allocation warehouse.
External warehouse	E	External warehouse for external operation. Used for external operation - purchase order. If a supplier is stored, a supplier related warehouse will be used. If no supplier is stored, this will be used as general supplier-provision warehouse. If this warehouse has bin locations, one bin location will be creation per supplier. ***See*** Collective purchase order
Purchase commission stock	K	Commission stocks of a supplier ***See*** Work with commission stocks Work with commission stocks Beas supports purchase commission stocks in the following way: - Purchase: post in via purchase - goods receipt to purchase commission stocks(warehouse type purchase commission stock)

© 2026 Boyum IT Solutions A/S

- For this warehouse a supplier is stored and "Production withdrawal" was enabled
- Production - Material issue (backflushing or right-click in work order structure - material issue)
  Goods can also be selected manually from purchase commission stock
  For goods on the commission stock:
  1. issue from commission stock
  2. purchase goods receipt to standard warehouse of the item
  3. issue items from standard warehouse

A goods receipt document is created, which can be used in invoice

Important: the standard warehouse may not have bin locations. For commission stock bin locations are supported.
Goods are posted with default pricing, adaptations are possible.

Adaptations are made by BeasScript in file `workordermanagement.src`

The following function is called once before charging-off from commission stock:
`function commisionpostout`
only the withdrawal price can be set up
Example:
`setvar=e_pricetype=zeroprice`
issue with 0. Important: if continuous stocktaking is active, this can lead to problems.

The following function is called once before processing purchase goods receipt to standard warehouse. It is called per batch, per serial number, per item.

© 2026 Boyum IT Solutions A/S

```
function commisionpoingetprice
```

Variable can be set one (not per row)

```
setvar=e_pricetype=fromplandocument
```

in this case in the variable "e_price" the post in price can be transferred

Example: batches are to be posted in with the price given in the field "notes"

Everything else is posted with 0

```
function commisionpoingetprice
// get price from plan document
setvar=e_pricetype=fromplandocument
select ManBtChNum from OITM where ItemCode=<e_item
// get price and save this in plan document
if <wert1> = Y then
   select OBTN.Notes into e_price from OBTN &
      where OBTN.ItemCode=<e_itemcode,dbstring> an
else
   setvar=e_price=0
end
end function
```

Supplier	Define the supplier ID if this is a warehouse for a special supplier or if you work with Bin location per Supplier **Working with one external bin managed warehouse for all external suppliers** If the external warehouse is a bin managed warehouse, the system can use the supplier ID as Bin Location. This is only working if this field is empty!
Default QC warehouse	For each warehouse a goods receipt warehouse can be defined separately. This setting has a higher priority than the setting in the Configuration wizard. Note: In advance, at least one goods receipt warehouse needs to be defined (type of the warehouse = goods receipt) If no warehouse is selected, setting in **Configuration wizard - quality control** applies. ***See***

© 2026 Boyum IT Solutions A/S

	Configuration wizard - Quality control Goods receipt - Field description
Default WMS Production Line	Define production line that can be linked to work orders. **Automatic assignation:** The WO position is updated automatically if this linked field is changed. ***See*** also Warehouse rules.
Reservation, Allocation	Consideration of warehouses at reservation and allocation At "Production" – "Reservation" and "Production" – "Allocation" only warehouses are available, for which "Reservation" was enabled. Standard setting: Active Pre-allocation function considers only warehouses, for which the switch was activated, even if it is the default warehouse. ***See*** Reservation window
Production outflow	Control of warehouse visibility Affected functions Production material posting Production - backflushing Production - external production For issue only warehouses are displayed, which were activated here. Default setting: active: Exception: for external warehouses it is disabled by default. Automatic pre-allocation does not consider this option, because there, the standard warehouse determination is used. Note: For "manual posting" these rules are not considered. ***See*** Production - Material issue Extended rules

© 2026 Boyum IT Solutions A/S

Default Production inflow	If active, this is the default warehouse for receipt from production. If a warehouse is defined as receipt warehouse, every assembly which is posted in (backflushing, posting with last time receipt, etc.) is posted to this warehouse. Only one production receipt warehouse can be defined. If no warehouse is defined as standard receipt warehouse, the warehouse defined in item or work order is used. Settings accessible also via Configuration wizard
Bin location management	Activate bin location management (or use as status display). This check box is only available if - the Beas bin management is activated or - SAP- and WMS- Bin management **not** activated It is not possible to activate Beas and SAP / WMS bin management at same time. In case of activation, further parameters are entered. Furthermore, warehouse areas and bin locations must be defined. ***See*** Warehouse are, Bin location Note: Please use SAP Bin Management or WMS Bin Management. Beas Bin Management is only available for compatibility reasons. Subsequent activation There are two possibilities 1. First, issue everything, then define bin locations and post-in again by using the function **Inventory > Inventory Opening Balance.** Disadvantage: no batch tracing, Pricing may be incorrect, Differences on various accounts. 2. In case of activation, a bin location is queried. Then, this bin is immediately created and all goods are posted on this bin location. Using the inventory function, a bin location correction can be performed, which does not lead to material issue or transfer.

© 2026 Boyum IT Solutions A/S

	Deactivation Deactivation is using right-click - "disable bin location management" is possible. ***See*** below **right-click menu**.
Default variant	Define default Variant If "Price per warehouse" - "Variants per warehouse" is set up in batch-Precalculation, and it refers to the warehouse to be calculated, the stored variant is used. The option is only displayed if "Price per warehouse" was set up in Basic-Initialization. Additionally, a default variant can be stored which is used at the creation of a work order or in case of changing the receipt warehouse. ***See*** Batch-calculation
Length	Specifies the length (meters) of the storage area (only for visualization if Beas bin management is activated).
Width	Specifies the width (meters) of the storage area (only for visualization if Beas bin management is activated).
Color	Defines the background color for visualizing the storage area.
Picture	Select an image

Button	Meaning
Extended	Open SAP Business One warehouse master where additional Beas features are available via right-click. Additional functions accessible via right-click Extended: Open extended Beas warehouse window List: Open list of all warehouses Inventory list: Open inventory list (only bin location warehouses) Open documents Open window "bin locations" - "open documents" Note: The "Drop-ship" SAP function is not supported in Beas Manufacturing.

© 2026 Boyum IT Solutions A/S

Right-click menu

Button	Meaning
Extended	Same function as the button (***see*** above).
Change log	Open protocol.
Support	Open Beas error messages.
Deactivate bin location management	Only displayed when dealing with a bin location warehouse. After a security query the following happens: When disabling a) an entry to the protocol is created b) all bin location stock is deleted c) all bin transaction protocols are deleted d) all data for wight and volume is reset e) bin location management is disabled **Attention:** Subsequent activation is possible, but the bin locations and stock needs to be restored manually.

If the selected warehouse has bin locations, additional tabs are displayed

Storage area	Definition of storage areas Below: Definition of bin locations ***See*** Storage areas Bin location list
Extended	Scripts for extended visualization ***See*** Extended visualization

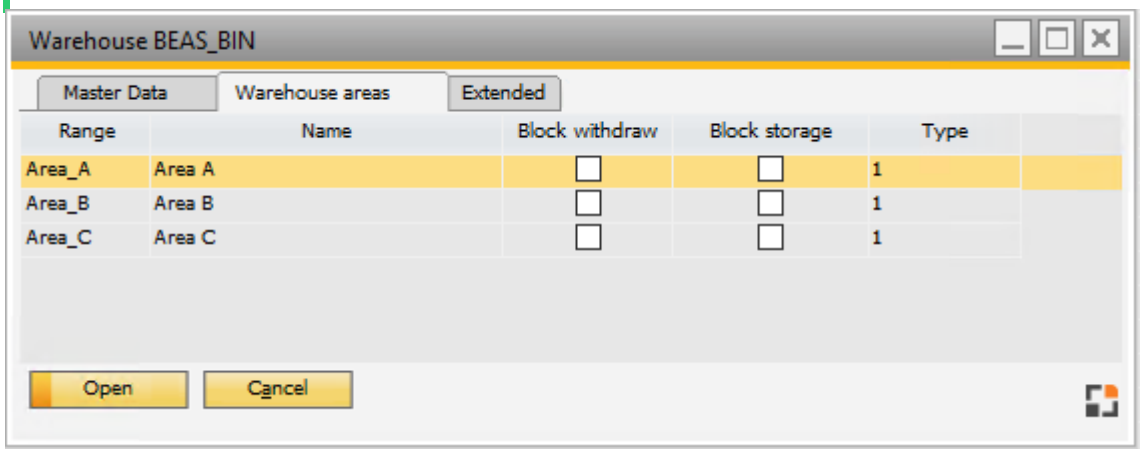
back to Warehouse master data

© 2026 Boyum IT Solutions A/S

7.8.1.3 Warehouse Area (Beas)

Only for Beas managed warehouses:
A rack, a single storage position, or a high-level rack can form a storage area. A storage area can have up to 3 dimensions (e.g. level, row, shelf) and consist of any number of bin locations. Any number of storage areas can be created per store.

PATH: Inventory > Warehouse Management > Master Data > double-click/**Open** a bin warehouse > "Warehouse areas" tab.

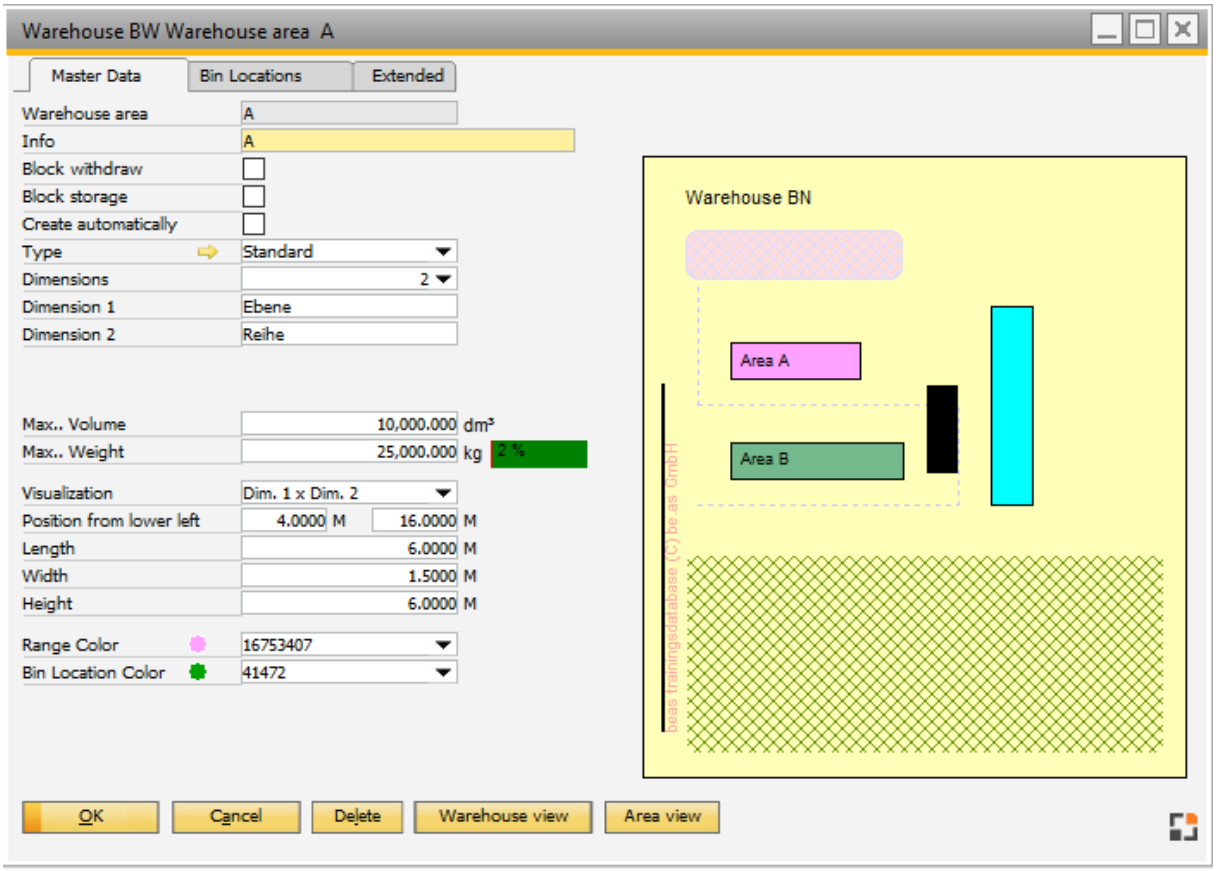


Window bin_whsarea_browse.psr

For visualization, you can specify the coordinates and color for each storage area. There are two views:
1. Warehouse View: Displays the entire store, together with the storage areas in the corresponding color at the corresponding coordinates – viewed from above (i.e., length x width) ***See*** image below.
2. Area view: Displays a storage area from the front, i.e. length x height. For more information ***see*** Inventory location.

PATH: Inventory > Warehouse Management > Master Data > select a bin warehouse > "Warehouse areas" tab > double-click an area.

© 2026 Boyum IT Solutions A/S



Window bin_whsarea_edit.psr

Master data tab

Field	Description
Warehouse Area	ID for the storage area (must be unique throughout a store).
Info	Short description of the storage area.
Block Withdraw	If activated, nothing can be taken from this storage area.
Block Inbound	If activated, nothing can be posted to this storage area.
Create Automatically	No function so far.
Type	Storage areas can be allocated to types.
Dimensions	⊟ Specifies the number of dimensions. Dimension 1 = level Dimension 2 = row Dimension 3 = shelf

© 2026 Boyum IT Solutions A/S

Field	Description
	These can be named as wished, but the names must follow the sequence above. If only a row is defined, and no levels, "1" must be entered for dimension, and "row" must be entered for dimension 1.
Max. volume in dm³	Defines the maximum permitted storage volume. In addition to the inventory, Beas also enters and issues the volume in the storage locations. It is always converted to dm³. However, there is no entry block when the maximum volume is exceeded in the current version.
Max. weight in kg	Enter the maximum permitted total weight The current weight utilization is displayed in addition to this in %. At postings the current weight is determined from Item master - Purchase - Netto weight. The weight is converted to kg at the moment of posting. Note: If the weight is changed in item master subsequently, the display will be incorrect.
Visualization	Type of visualization. So far, only "dimension 1 x dimension 2".
Position from lower left	Specifies the position of the storage area in the store from the bottom left in meters.
Width, length, height	Specifies the dimensions of the storage area. Note: This is visualization information only; it does NOT have to match the actual sizes.
Range color	Defines the color for visualizing the storage area.
Bin location color	Defines the color of the location. However, the color can also be specified separately on creation.
UDF 1...4	Up to 4 UDF can be created if activated in the Configuration wizard.

Bin locations tab

Displays a list of the inventory locations created.

Inventory locations can be created and managed individually or they can be created as a batch.

© 2026 Boyum IT Solutions A/S

For more information ***see*** Inventory location

Extended tab

Use this tab to input a script for extended visualization of the storage area (warehouse area view).

The object for visualization is called "vi"

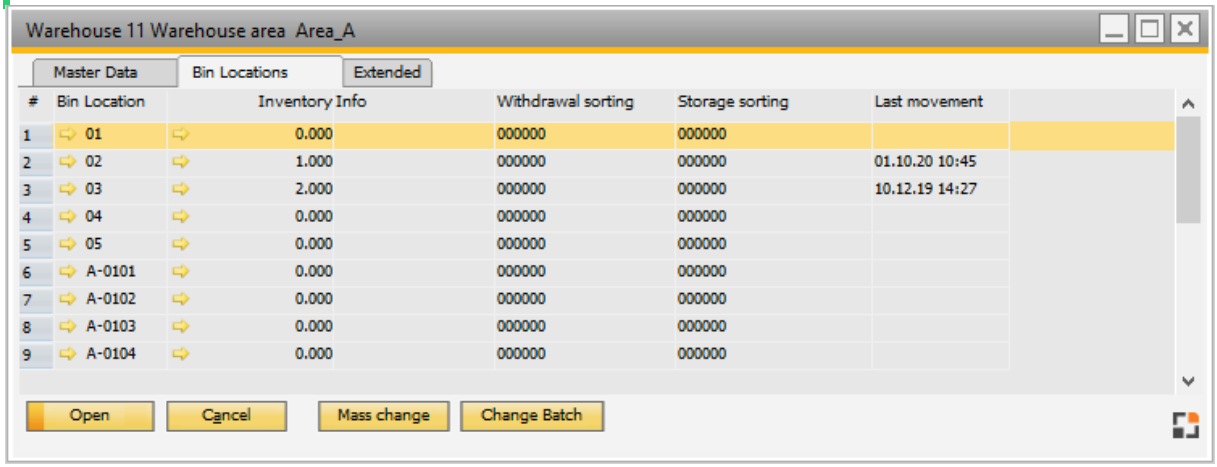
For more information ***see*** Working with the visualization object

back to bin location master data

7.8.1.3.1 Bin location list (Beas)

PATH: Inventory > Warehouse Management > Master Data > double-click/**Open** a bin warehouse >

1. "Warehouse areas" tab >
2. Double-click/**Open** an entry in the list >
3. "Bin Locations" tab.

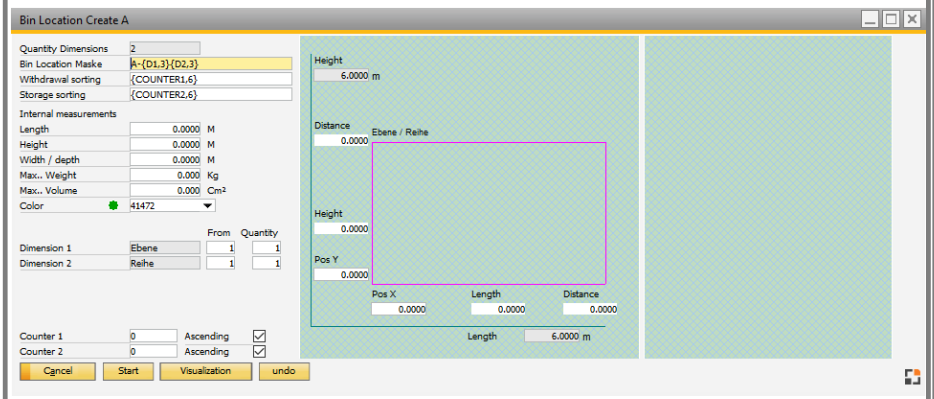


Window bin_whsbin_browse.psr

Field	Meaning
Bin location	Unique ID related to warehouse.
Inventory	Current stock.
Dimension 1-3	Up to 3 dimensions. e.g. level, row, compartment.
Withdrawal sorting	Sorting for withdrawal.
Storage sorting	Sorting for placing into stock.
Last movement	Date of last posting – can be used for FIFO or LILO rules.

© 2026 Boyum IT Solutions A/S

Functions:

Function	Meaning
Open	Edit selected bin.
Cancel	Opens bin location creation window.
Add	Create a new bin location.
Remove	Only bins without stock can be deleted. Select bins first, then click "delete" button.
Mass change	Change several parameters of bin locations at once. **Approach:** 1. Enter value to be changed in upper area 2. Select bins to be changed from lower list. Use filter (right-click on title) or multiple selection. 3. In upper area: click on replacement icon (red-black arrow) before the entry to be changed. ***Example***: to change length to 5, enter 5 click replacement icon. The change is entered in selected bins. 4. Click on update. Without updating, values are not saved. After re-sorting, values are lost.  *Window bin_whsarea_edit_create.psr*
Change Batch	Opens the Change Batch window.

back to Bin locations

7.8.1.3.1.1 Bin location

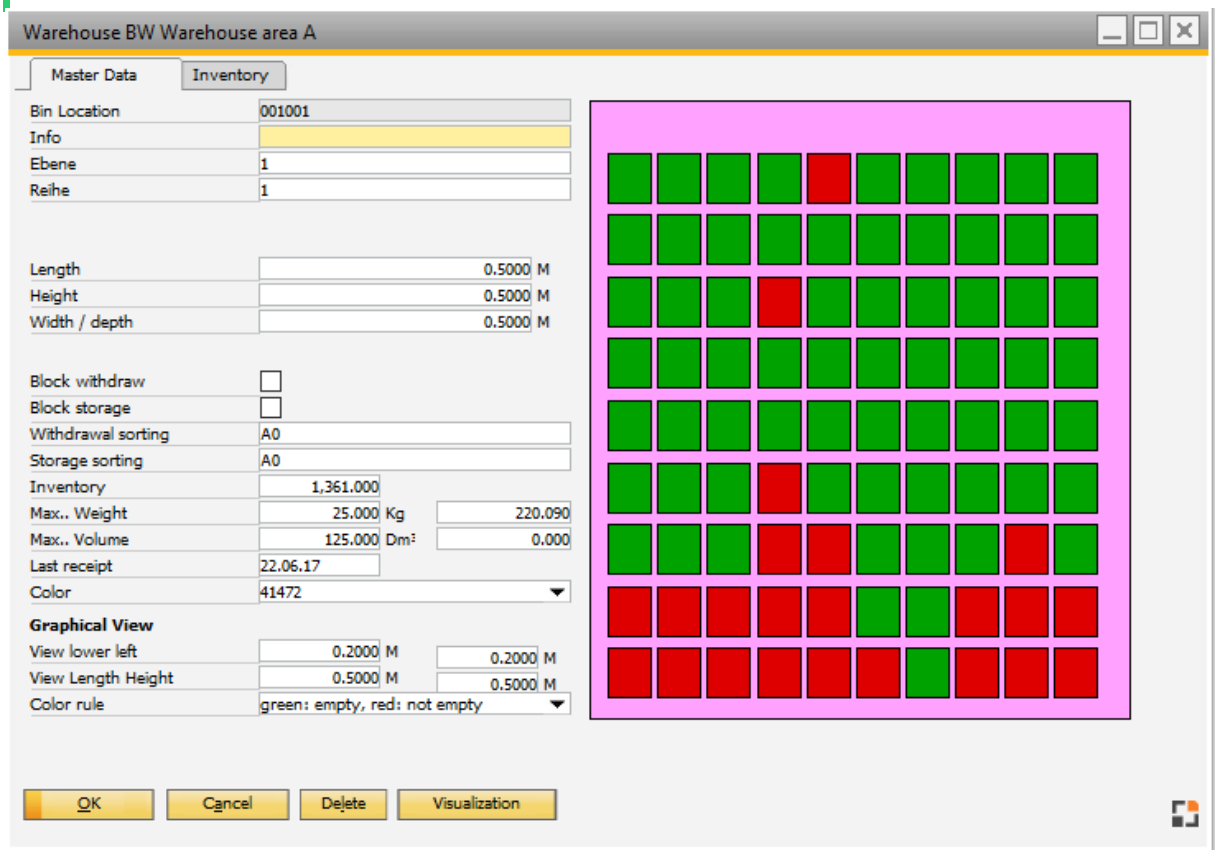
Only for Beas managed warehouses:

© 2026 Boyum IT Solutions A/S

The bin location is the smallest unit of inventory storage. A bin location can be a palette location, a small storing area or even just a compartment of a shelf in a high-level rack at level x of row y.
Beas allows you to store any number of different items, the same items of different batch numbers or identical items with the same identification (the RFID) uniquely in one inventory location.

PATH: Inventory > Warehouse Management > Master Data > double-click/**Open** a bin warehouse >

1. "Warehouse areas" tab >
2. Double-click an entry in the list >
3. "Bin Locations" tab
4. Double-click/**Open** an entry in the list.



bin_whsbin_edit

In a transaction, both the volume and weight of the item are posted in addition to the number of units. A transaction log is also kept for each movement.
Beas always posts in the unit of weight "kg" and volume "cm^3;". Where necessary, the units stored in the item are converted first.

© 2026 Boyum IT Solutions A/S

Note: In the current version of the software, there is no check to determine whether an item may be stored in the compartment of an inventory location based on weight, volume, risk class or dimensions. Corresponding rules are yet to be defined.

You can define whether stock may be stored or removed for each inventory location, similarly to the storage area.

Visualization

The actual dimensions and visualization coordinates can be stored in an inventory location. These do not have to match as an "equalization" or two-dimensional display of a three-dimensional storage area must be possible.

Stock removal and storage sorting

A sort order can be saved for removal and storage.

If you select an inventory location using the selection list, the sort order is taken into account.

Automatic inventory location finding is not available in this beas version, since there are many different rules yet to be defined.

Master data tab

Field	Meaning
Bin location	A unique identification based on the store.
Info	Short text information.
Dimension 1-3	Up to 3 dimensions such as: level, row, shelf, etc.
Length	Actual length.
Width / depth	Actual depth.
Height	Actual height.
Deletion at 0 inventory	No function so far.
Block Withdraw	Goods can not be removed.
Block Inbound	Goods cannot be stored.
Withdrawal sorting	Sorting for removal.
Storage sorting	Sorting for storage.

© 2026 Boyum IT Solutions A/S

Inventory	Current inventory (can be the total of all units).
Maximum weight	Maximum permitted weight (previously only available for information). followed by: currently stored weight in kg.
Maximum volume	Maximum permitted volume (previously only available for information). followed by: currently stored volume in cm^3;
Last receipt	Date of last entry – this information can be used to create a FIFO or LILO rule.
Color rule	Define color for displaying the bin location in List view or drop-downs (not in WEB APPS).

Visualization

Field	Meaning
Color rule	Determine the rules according to which the color should be displayed In the graphical view you can define a color rule. Depending on configurable causes, a bin location can be displayed with different colors. Two rules are currently available, and further ones can be set up if necessary. Generally, where "green" is mentioned, this refers to the basic bin location color ("Color" column).
View lower left	Position of the inventory location based on the storage area.
View length height	Visual length and height. The specifications do not have to correspond to the actual size.

Rule	Meaning
Empty=green, not empty=red	Inventory location is shown as green as long as it is empty, otherwise it is red.
According to weight, up to 50% green, up to 80% orange, 80% or over red	Coloring depends on weight, i.e. on "max. weight" and "current weight". In addition, the filling degree is not only shown through color, but also by means of percentages.

The list is dynamically adjustable, and templates are supported.

Inventories tab

© 2026 Boyum IT Solutions A/S

This window contains the current inventories in this inventory location, including batch/series no., quantity, weight, volume, RFID (if activated) and date / time of last entry.

See

Creating an inventory location

Each inventory location is displayed as a "rectangle".
However, you can use the visualization system to display any other objects such as rectangles, texts, and lines, e.g. via 'Storage area' on the Extended tab.

This tab contains a script window. You can use BeasScript to determine the layout of the visualization.

The object name of the visualization object is vi.

The following graphic objects are available:

rectangle	A rectangle
line	A line
Text	Text
ellipse	A circle or oval
roundrectangle	A rectangle with rounded corners

The parameters for all objects are specified using "/" as a separator.
All dimensions are given in meters.
Decimal specifications are given in the national language, e.g. Germany: 7.6 USA: 7.6

Example:

```
vi=text=text=bin 1/y=0.3/x=4.6/length=0.2/height=1/font.height=-7/color=0
vi=line=y=0.55/x=0/length=4.8/height=0/pen.color=rgb(255,0,0)
```

Text

x,y	Position from bottom left in meters
length/height	Length/height in meters
background.color	Fill color
font.color (or just color)	Font color
Text	Text

© 2026 Boyum IT Solutions A/S

x,y	Position from bottom left in meters
Day	Command to be executed on click
Name	Name of the object
font.face	font type
font.height	Font size. If specification < 0, then in units (normal size = -8, small font: -7, very small: -6. If specification > 0, specification is in system units. Normal size at around 50 - 60.
font.weight	Font weight. 400=normal, 700=bold
escapement	Font rotation in 10ths of a degree, e.g. 450 for 45 degrees
alignment	Font alignment: left, right, center. Default=left.

rectangle, roundrectangle, ellipse

x,y	Position from bottom left in meters
length/height	Length/height in meters
background.color	Fill color
brush.color	Second fill color - depending on brush.hatch
brush.hatch	Hatching 0 = Horizontal 1 = BDiagonal 2 = Vertical 3 = Cross 4 = FDiagonal 5 = Diagonal Cross 6 = Solid 7 = Transparent
background.mode	0 = Opaque, Solid 1 = Transparent
pen.color	Frame color
pen.width	Frame thickness
pen.style	0 = Solid 1 = Dash

© 2026 Boyum IT Solutions A/S

x,y	Position from bottom left in meters
	2 = Dot 3 = DashDot 4 = DashDotDot 5 = Transparent
Day	Function when clicked
Name	Name of the object
ellipseheight, ellipsewidth	Only for roundrectangle: Specifications for the rounded corners.

Line

x,y	Position from bottom left in meters
length/height	End point seen from x,y
pen.color	Color
pen.width	Pen thickness
pen.style	0 = Solid 1 = Dash 2 = Dot 3 = DashDot 4 = DashDotDot 5 = Transparent
Day	Function when clicked
Name	Name of the object

Color

The color can be specified in the following ways.

xxxx	Direct color red + (256*green) + (256*256*blue) 536870912 = Transparent
rgb(r,g,b)	Specification as rgb color r=red, g=green, b=blue e.g. rgb(255,255,255) = white

© 2026 Boyum IT Solutions A/S

xxxx	Direct color red + (256*green) + (256*256*blue) 536870912 = Transparent
green, blue, red	Direct color specifications. Other colors are not supported in this notation. e.g. color=red.
transparent	Transparent color

back to bin location

7.8.1.3.1.2 Creating a bin location

If you have to create inventory locations e.g. for a high-bay warehouse, you can use the new inventory location creation feature to simplify their creation.

You can access this function via the inventory location list, "**New Batch**" button

You can execute a single operation to create all inventory locations and the inventory locations for a storage location, respectively, or the compartments for a shelf all at once. The corresponding visualization coordinates are calculated automatically using the stored information.
Advantage of visualization
You can tell
- which inventory location is blocked
- on removal from storage: where is the selected item located
- on storage: which inventory location is already full

Special feature: Display three-dimensional inventory locations two-dimensionally
For example, a high-level rack with level, row, compartment, where the compartment represents the third dimension that should be displayed in the second dimension.
To do the trick:
The shelf itself is not displayed, instead the external surfaces of the individual compartments represent the shelf.

Shelf1 Shelf 2

Compartment1 Compartment2 Compartment3 Compartment1 Compartment2 Compartment3

© 2026 Boyum IT Solutions A/S

Compartment4 Compartment5 Compartment6 Compartment4 Compartment5 Compartment6

The shelf is discernible from the corresponding arrangement of the compartments, but you see only the individual compartments.

Parameters for creation

Number of dimensions	Stored in storage area – display only.
Inventory location screen	Structure of inventory location identification – ***see*** window definition.
Withdraw Significance	Displays screen for removal sorting.
Inbound Significance	Displays screen for stock storage sorting.
Width, length, height	Actual dimensions of the inventory location in meters.
Max. weight, max. volume	Max. – specifications of weight and volume.
Color	The color used for visualizing.
Dimension 1 from / number	Create the inventory locations for dimension 1 to the specified quantity (dimension 1 is always the Y axis).
Dimension 2 from / number	Create the inventory locations for each dimension 1 from dimension 2 and the specified number. (dimension 2 is always the X axis)
Dimension 3 from / number	Create the inventory locations for each dimension 1 and 2 from dimension 3 and the specified number. Sample high-level rack: Dimension 1 = level = from 1 number 2 Dimension 2 = row = from 1 number 10 Dimension 3 = compartment = from 1 number 6 10 shelves with 6 compartments are now created for level 1 and 2, i.e. a total of 6*10*2 = 120 inventory locations. (Dimension 3 is always the compartment number)

© 2026 Boyum IT Solutions A/S

Number of dimensions	Stored in storage area – display only.
Counter 1, counter 2	There are 2 counters that count up or down. These can be used e.g. for stock storage or removal sorting {COUNTER1} = Counter1, {COUNTER2} = Counter2.

The coordinates are displayed on the right side.

One- and two-dimensional stores

The green lines represent the storage area.
The displayed rectangle in pink represents the inventory location.

Height	Height of the storage area (read-only).
Distance (Y axis)	Distance between the locations vertically.
Height (Y axis)	Visual height of a location.
Pos Y	Y position of the location based on 0 point of the storage area on Y axis.
Pos X	X position of the location based on 0 point of the storage area on X axis.
Length	Visual length.
Distance	Distance between the inventory locations horizontally.

Using "Visualization", the storage area including all already created inventory locations is displayed together with the inventory location to be created (dark-red square) and the entire area for all inventory locations to be created (white area).

Use "START" to start creating and visualizing the inventory locations.
If they are not created as you had planned, undo this process using the "Undo" button.

When created, the first inventory location is created according to the stored coordinates and templates (inventory location identification/sorting). The second inventory location in the row receives the X position (X pos of the first inventory location + length + distance)
If all inventory locations are created in a row, the next row is:
(Y position = Y position of the first compartment + height + distance, X=X position of the first compartment), etc.

Three-dimensional store

© 2026 Boyum IT Solutions A/S

For three-dimensional stores:
Dimension 1 = level
Dimension 2 = row
= the shelf
Dimension 3 = shelf
The coordinates of the third dimension are calculated automatically.
The total area of the compartments provides the coordinate for dimension 1 + 2 (i.e. the actual shelf)
Only the number of compartments per X and Y is specified.

Example:
Shelf: Length 0.8 Height 0.5
Number of compartments: 10
Compartment per X: 5
Compartment per Y 2

The compartments would then be created accordingly.

06 07 08 09 10
01 02 03 04 05

Total length from 01 to 05 here is 0.8 m.
Total height from 01 and 06 here is 0.5 m.

Ensure that the compartments are created in such a way that they are well visible.

Display on the right side of the window:

The green lines represent the storage area.
The displayed rectangle in pink represents the "shelf".
This rectangle contains dark red rectangles. These represent the compartments, i.e. the actual inventory locations.

Height	Height of the storage area (read-only).
Distance (Y axis)	Distance between the "shelves" vertically.
Height (Y axis)	Visual height of the "shelf".
Pos Y	Y position of the "shelf" based on 0 point of the storage area on Y axis.

© 2026 Boyum IT Solutions A/S

Height	Height of the storage area (read-only).
Pos X	X position of the "shelf" based on 0 point of the storage area on X axis.
Length	Visual length of the "shelf".
Distance	Distance between the "shelves" horizontally.
x	(Input field on the right side of the dark orange rectangles). Number of compartments horizontally. If the quantity changes, the number for dimension 3 is adjusted automatically.
y	(Input field above the dark red rectangles). Number of compartments vertically. If the quantity changes, the number for dimension 3 is adjusted automatically.

back to bin location

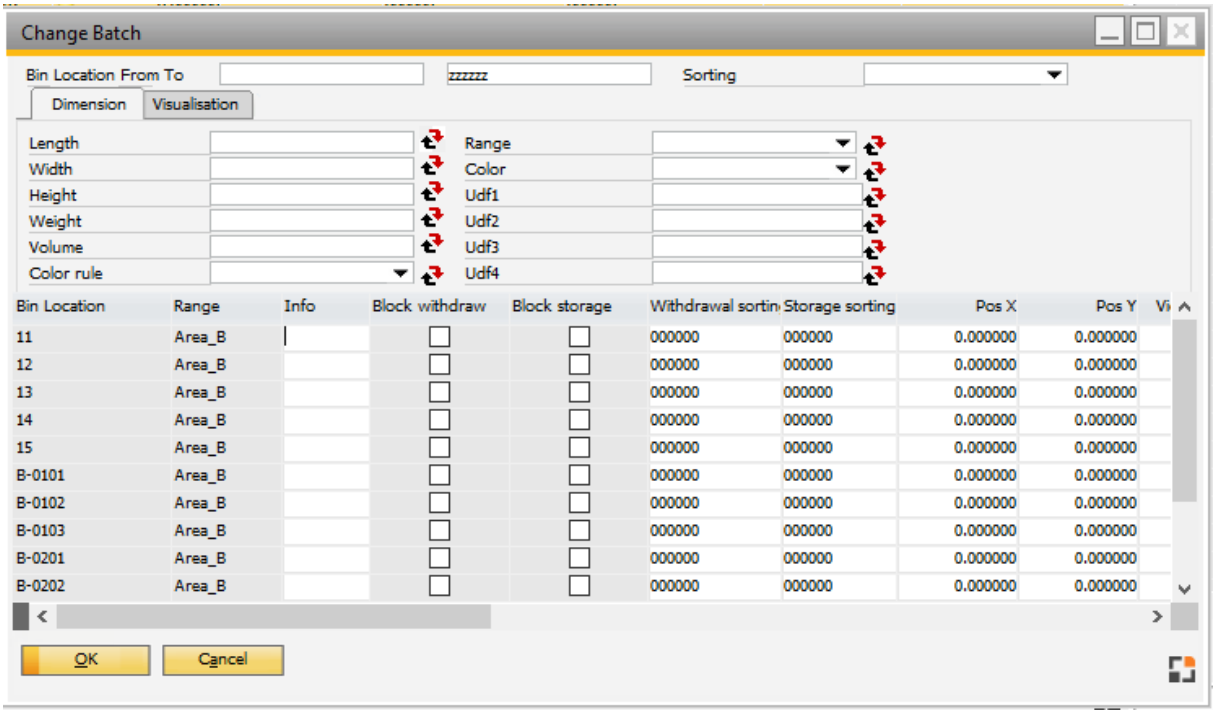
7.8.1.3.1.3 Batch Change

In this window you can change fields from all or parts of bin locations in a simple way.

PATH: Inventory > Warehouse Management > Master Data > double-click/**Open** a bin warehouse >

1. "Warehouse areas" tab >
2. Double-click an entry in the list >
3. "Bin Locations" tab
4. Press **Change Batch** button.

© 2026 Boyum IT Solutions A/S



Window bin_whsbin_change.psr

Define the bin location area and, by option, the sorting for the current list.

- Change field by field

  You can change every value directly in the list.

- Mass Changes

  1. Insert new value in Length, Width, Height etc.
  2. Mark all Bin locations: Click on the first Bin location
  3. Hold Shift Key
  4. Click on the last Bin location

  or

  1. Hold Ctrl Key
  2. Click on all Bin locations you want to change.

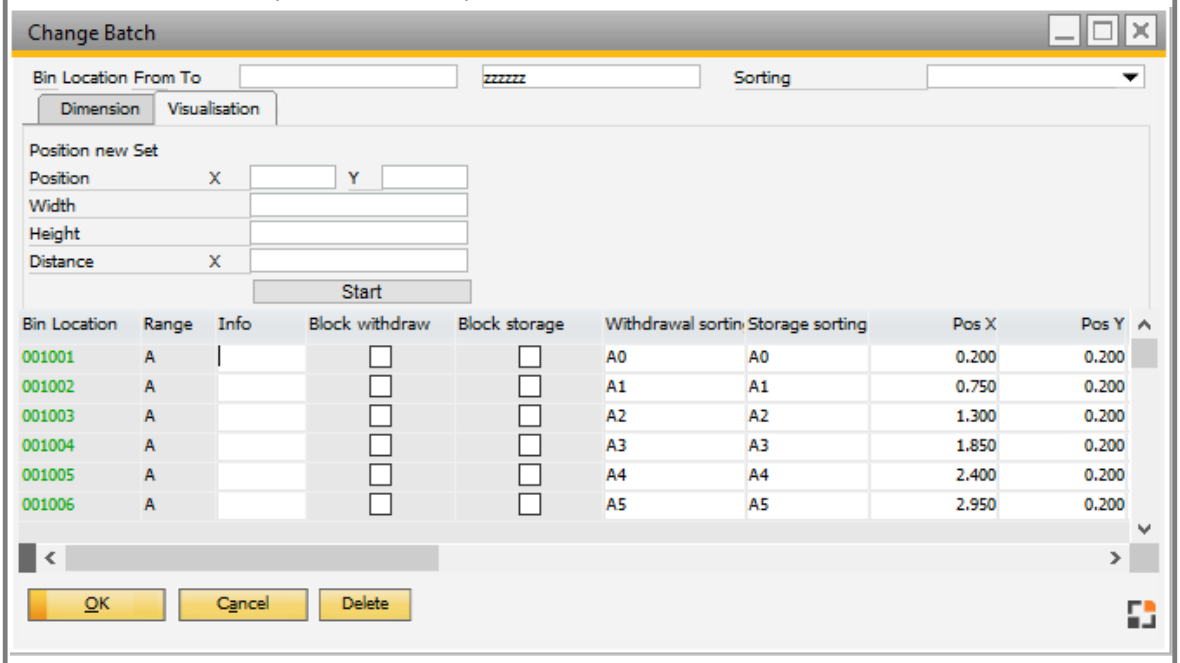
  As a last step, click on the replace icon right of the property field .

  Check changes and click "Update".

- Visualization

© 2026 Boyum IT Solutions A/S

In Tab "Visualization" you can set the position for one row.

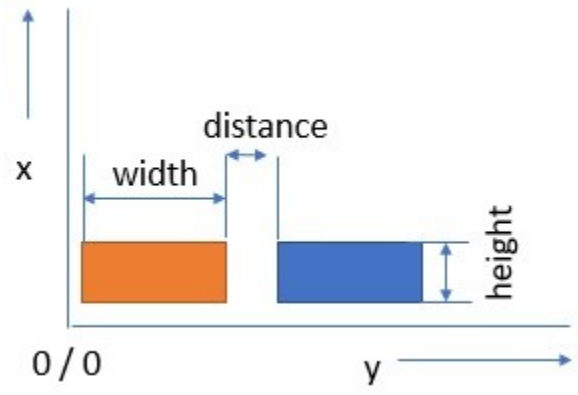


Window bin_whsbin_change.psr

Define position x and y, width and height for the first left bin location (orange).

Define Distance to the next Bin Location .

All values are provided in Meters (m).



1. Sort Bin location.
2. Mark all Bin Locations for this row.
3. At the end, click the "Start" Button.
4. Check the result then click "Update".

© 2026 Boyum IT Solutions A/S

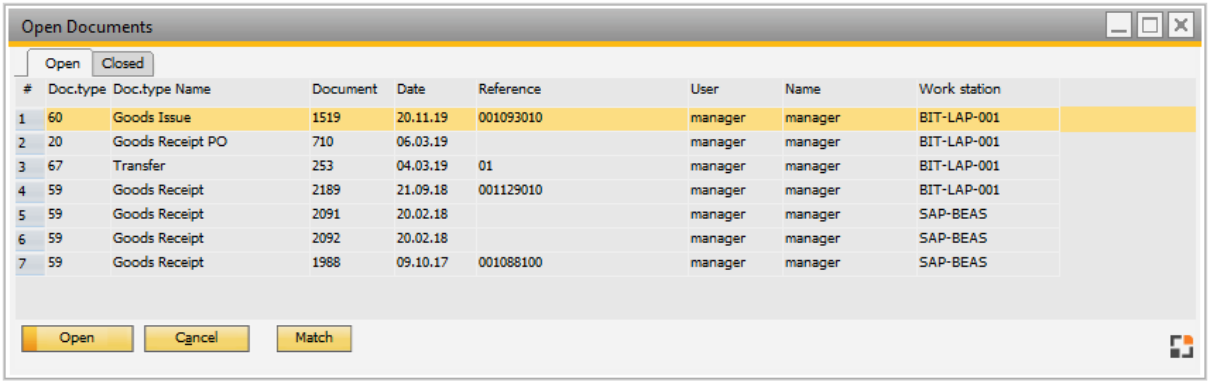
7.8.2 Open documents (Beas)

Only related to Beas Bin Management:

Here journal entries are displayed, created by postings in SAP Business One, for which no bin locations were allocated. Usually, posting to bin locations is performed just after the SAP Business One posting. There are a few exceptions:
- the posting was canceled
- the posting was performed when Beas was inactive
- the posting was performed via another Add-On or other interfaces
- the SAP Business One inventory function was used.

Check for open documents should be performed regularly. For this purpose use the button "match". Closed documents appear in a list in the Closed tab of this window.
The accounting documents presented there should be processed promptly, otherwise the stock will differ from bin location stock.
Before an inventory (stocktaking) is carried out, it is imperative to process open documents. First process post in documents, then issue documents.

PATH: Inventory > Warehouse Management > Open Documents.



Window bin_oinm_openbydocument.psr

Columns

Column	Meaning
Document type ID	Document type ID.
Document type name	Description of document type, kind of transaction.
Document	Document number.

© 2026 Boyum IT Solutions A/S

Date	Date of creation.
Reference	Kind of change.
User	The user who created the transaction. Important: this is the user who created the data in "open documents". Usually this is the same user who created the transaction document. Exception: SAP Business One was used without Beas, the bin location system was inactive and another user clicked the button "match" in SAP Business One in "Open documents" .
Name	User name.
Work Station	Work station on which the transaction was made.

Tabs

Tab	Meaning
Open	Open documents for which a bin location assignment is required.
Archive	All completed documents.

Right-click menu

Function	Meaning
Open	Open the selected document in the editing window.
Match	(right-click function or button) Check for additional open documents – Button below has the same function.
Last Messages	Displays last error messages.

Right-click on a document: selection to change document type.

back to bin location management

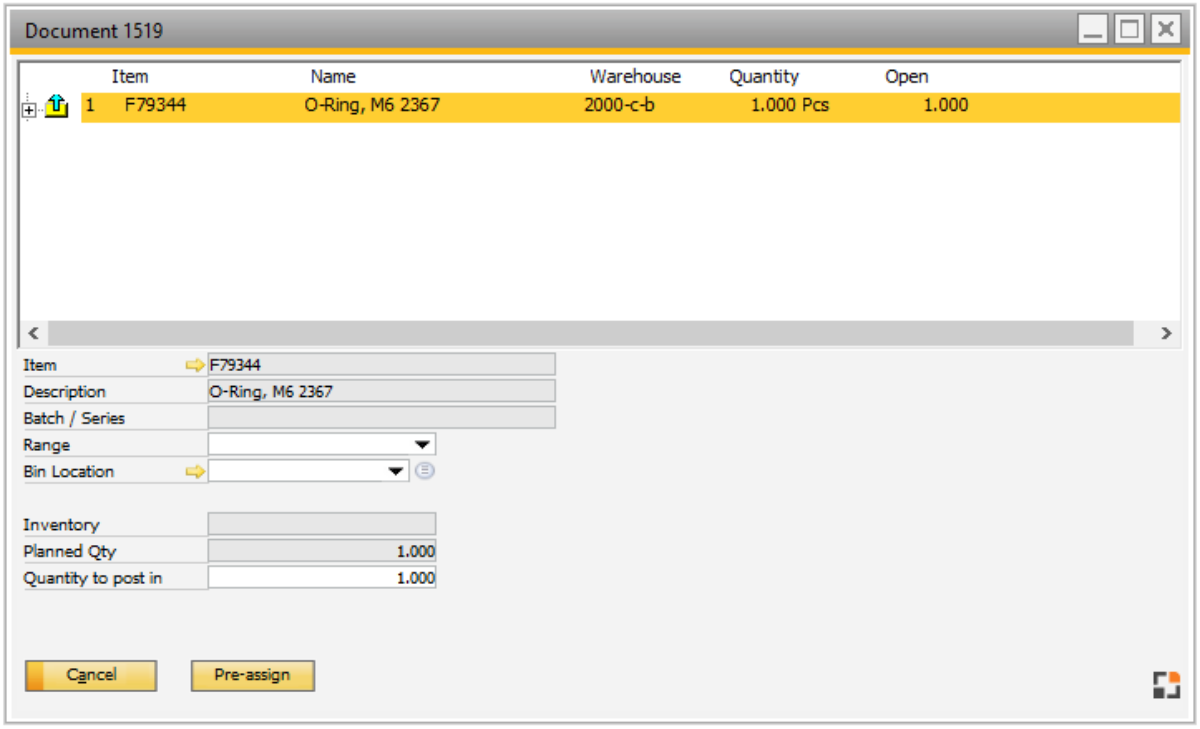
7.8.2.1 Edit open documents

If a transaction is executed on a bin location warehouse via SAP Business One, a bin location assignment is required.
Until completed, the document is presented as "open document" in Beas bin location administration.
If you do the posting in Beas, the bin location is indicated directly in the posting document, and no further assignment is necessary.

© 2026 Boyum IT Solutions A/S

Open documents can be closed by performing postings in this window.

PATH: Inventory > Warehouse Management > **Open** Documents > double-click an entry.



Window bin_ struktur.psr

White window section on top: Selection of items and batches with the orange scroll bar.

Right below: Graphical view of bin locations.

Left: Entry fields.

Field	Meaning
Item	Item.
Description	Description.
Batch	Batch.
Range	Warehouse Bin area: Selection with visualization. After the selection, the warehouse bin area is displayed graphically. By clicking the visualization the bin location can be chosen directly. The selection of the area has no effect on the bin location selection.
Bin location	Bin location: Selection with visualization. Drop-down:

© 2026 Boyum IT Solutions A/S

	At warehouse withdrawal: The bin locations are shown by bin location withdrawal rules. At receipt: The list is adjustable. ***See*** Receipt – Bin location. Click on the icon left of the entry field to open the bin location list. Window settings and templates are supported.
Inventory	Current stock.
Planned qty	Originally planned quantity.
Quantity to post in	Current quantity to be posted.

Right-click menu

Function	Meaning
Inventory history	Open Inventory history.
Journal	Open journal for the selected entry.
Support	Last error messages.

Functions

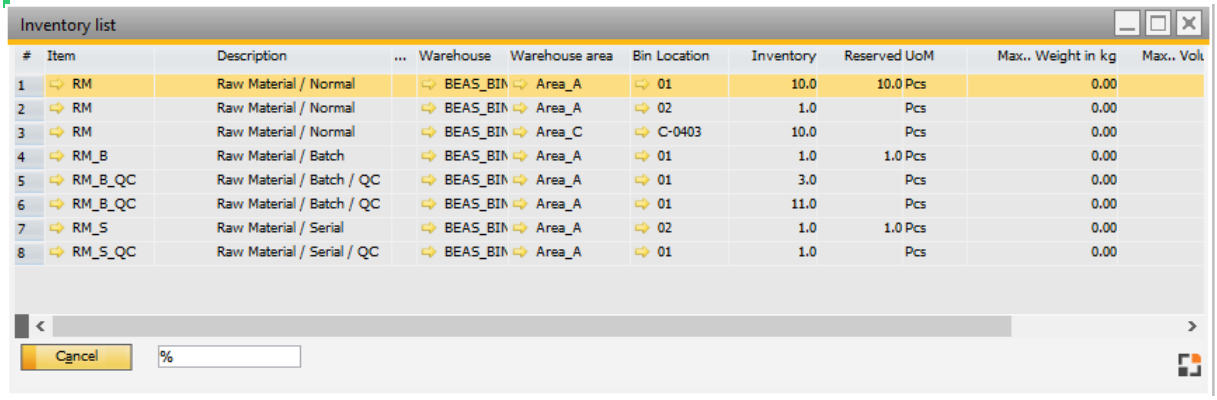
Function	Meaning
Cancel	Cancel the process, close the window after a security query.
Enter	Perform postings and close the window.
All mark	For collective postings. The check box before the entry is marked with an X. In this case, the quantity below cannot be changed anymore.
Selection delete	Only displayed, if entries have been marked before. All marks are deleted, single postings with quantity change are possible again.
Pre-assign	If dealing with a issue document or a delivery slip with serial number related items, the bin locations can be pre-allocated automatically. This is only possible for serial number items as these can be localized always on one bin location only.

back to open documents

© 2026 Boyum IT Solutions A/S

7.8.3 Inventory list

PATH: Inventory > Warehouse Management > Inventory list.



Window bin_binitemlist_browse.psr

This window provides a list of inventory. Previously this was only possible using the report system via **Bin location management > Master data > warehouse areas**.

List features:

- integrated template-system,
- Window is changeable dynamically, all fields of a bin location can be displayed,
- Full text search for item, batch, bin,
- Direct links.

back to bin location management

7.8.4 Bin location system check (Beas)

After a crash of the system, or in case of differences in bin location tables, bin location stock can be restored based on the goods movement protocol via the "System Check".
The system checks program analyses and repairs inventory based on bin transactions (beas_whsbinjournal). First, the Inventory Movement list is checked for negative entries and if necessary, counter entries are created, setting the balance to 0.

The following is checked:
- Status and quantities in "open documents"
- Stock in bins
- All empty entries are deleted
- General clean up of bin location tables

© 2026 Boyum IT Solutions A/S

All corrections are logged in the Beas protocol. After running the system check, it is recommended to:

- view the protocol
- bin location: process open documents
- **bin location master data > right-click > correction**: check the differences and correct them if necessary.

A system check is only required if, after the processing of open documents, there are still differences between SBO stock and Beas bin stock. Before starting the check, keep only those documents open that cannot be processed due to stock differences.

back to master data

back to bin location management

7.8.5 Bin location correction (Beas)

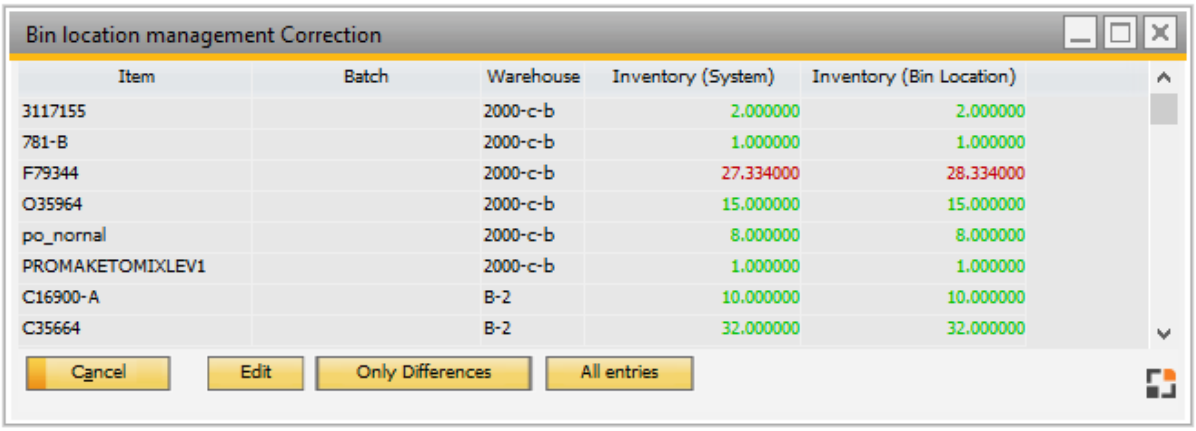
The correction program serves as a support for correct inventory of bin location, if it deviated from system inventory. The correction program can be started only if there are no open documents. To run the correction program system authorizations are required. After the call, a list is displayed for the following entries:

- Items, batches and serial numbers with system inventory
- Existing bins with inventory but without system inventory
- Bin locations with negative inventory

Incorrect entries are displayed in red.

PATH: Inventory > Warehouse management > Master data > right-click > "**Correction**"

© 2026 Boyum IT Solutions A/S



Window bin_whs_support.psr

Field descriptions

Field	Meaning
Item	Item
Batch	Batch ID
Warehouse	Warehouse name
Inventory (System)	Currently posted inventory in the system
Inventory (Bin location)	Actual bin location inventory

Button / right-click menu

Field	Meaning
Cancel	Close window.
Edit	Open manual bin location correction for the selected entry.
Only differences	Filter: display only entries with inventory differences between system and bin location. All green entries are hidden.
All entries	Filter off. All entries are displayed.

Notes on inventory

Even if an entry is green, there could be problems: For example, due to negative stock on bin locations inventory the sum can be correct.

Example:

System inventory 5, Bin location inventory 1x 6 and 1x -1 = 5 For this reason, bin locations with negative stock are presented separately.

© 2026 Boyum IT Solutions A/S

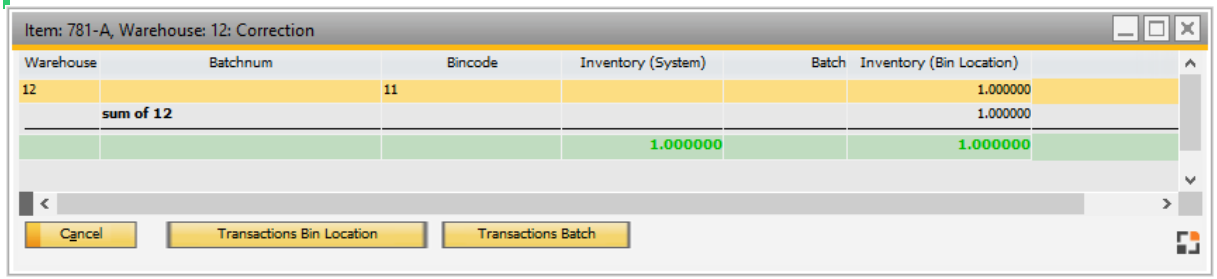
To correct an entry, click on "Edit".

back to warehouse master data

7.8.5.1 Correct bins manually (Beas)

Here, inventory can be corrected manually. All bin locations of an item, batch and serial numbers are displayed. Below bin location in the green line, the system inventory is shown, next to it the bin location inventory. The aim of the repair is to match system inventory and bin location inventory. In this window, you can only manipulate bin location inventory.

PATH: Inventory > Warehouse management > Master data > right-click > "Correction" > **Edit** button



Window bin_whs_support_detail1.psr

New bin locations can be created, existing ones can be changed, and numbers can be adjusted. All changes are logged in bin location history. Once the sum lines are green, the window can be closed. There is no check on accuracy of data.

If the RFID system is activated, RFIDs can be freely changed or corrected.

Important: This program is intended to serve only as a repair program and not to be used for bin location management.

Field	Meaning
Warehouse	Warehouse
Sum per batch	Dispalyed in the line below bin location inventory.
Batch	Batch ID
Bincode	Bin location code. Can be changed via right-click.
Inventory (System)	Currently posted inventory in the system.
Inventory (Bin location)	Bin location inventory.

© 2026 Boyum IT Solutions A/S

Buttons/Functions

Button/right-click function	Meaning
Cancel	Close window.
Add	Enter new bin location.
Remove	Delete bin location and its inventory.
Transactions bin location	Open a list of all transactions of this bin location.
Transactions batch	Open a list of all transactions of this batch.

back to Bin location correction

7.9 Inventory transactions

Inventory transaction types:

Manual postings

Batch transfer

Batch Split

Inventory (Stocktaking)

Batch calculation (precalculation)

Reservation list

Warehouse choose bincode

7.9.1 Manual postings

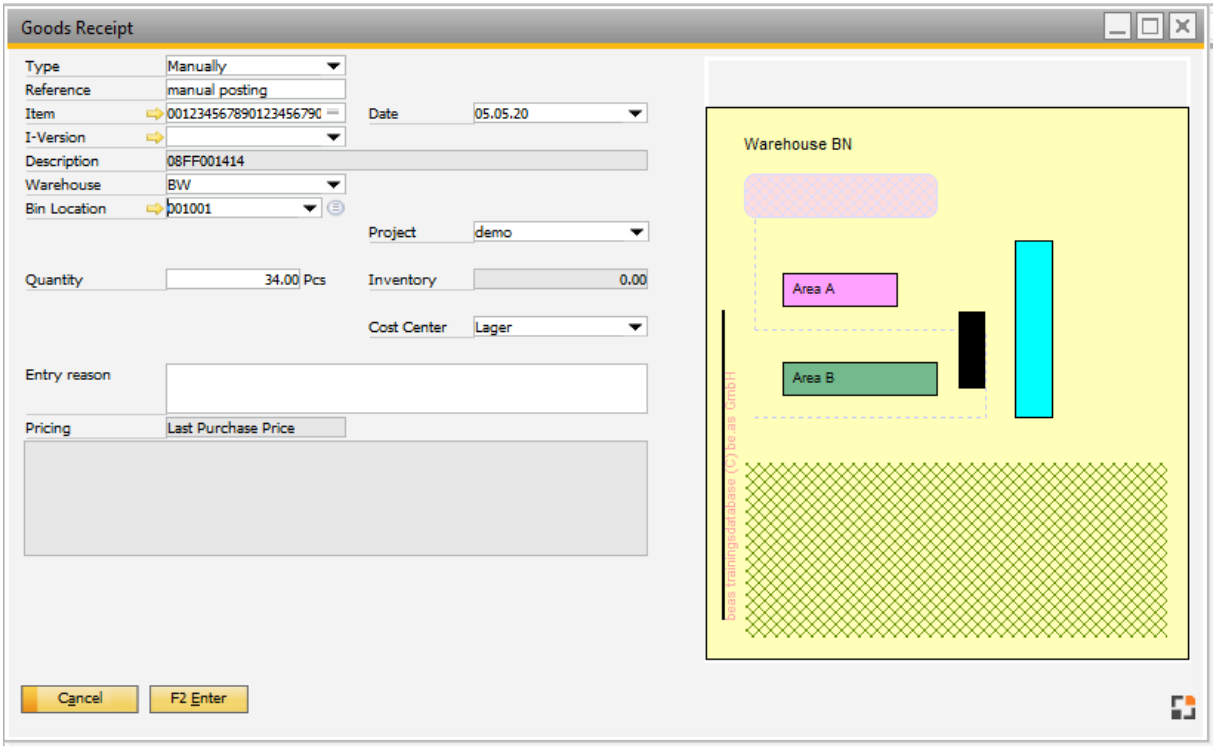
With manual postings the inventory can be adjusted without a document.
For example, after the stocktaking, part of the stock was not counted, the missed amount can then be manually posted.

The following manual posting options are available:

- Receipt
- Issue
- Transfer

Only one item can be added per manual posting procedure.
The posting is a simplified operation to be used in production and some information is omitted.

© 2026 Boyum IT Solutions A/S



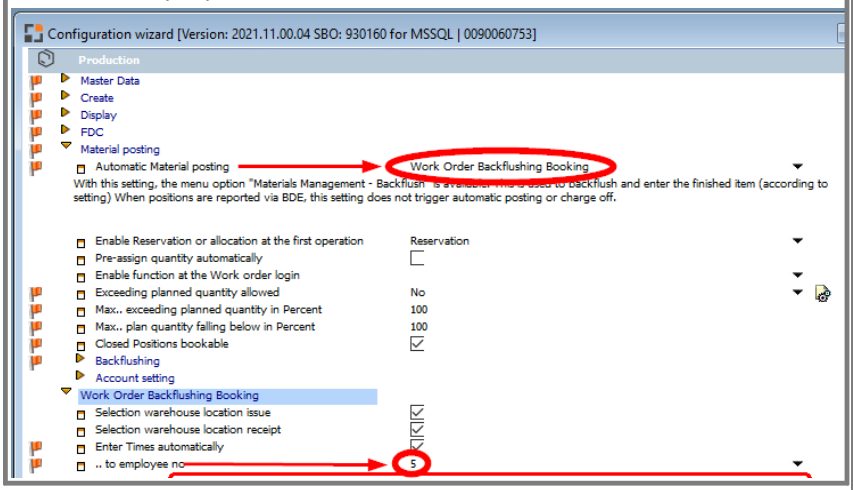
Window mw_manuell_buchen.psr

Posting types

There are different types of postings

Type	Description
Manual	Used to report a manual posting. This option uses the accounts set in Beas general parameters. These accounts can be different from the correction option.
Production	Assigned to a production order. Entry of the production document and the position or BoM position is necessary. The process: After choosing the position, the item is inserted automatically. The posted quantity is displayed and evaluated in the production structure views. In the Production order field the following can be entered: • work order number • work order position bar code • BoM bar code The entry is processed according to its type.

© 2026 Boyum IT Solutions A/S

	Production posting type special case **Receipt - Pricing** With the Type "Production" selected, the Pricing field becomes invisible as then the pricing Production valuation assembly is used. Postcalculation may be running in the background. **Receipt - order time receipt** is created automatically if enabled in Configuration wizard – Production – Work order backflushing – Book times automatically and "...to employee" is defined 
Correction	Used to report adjustment of remaining inventory (evaporation, scrap, and so on). This option uses the accounts set in Beas general parameters.
Inventory	Uses the same accounts as the Manually option, but the inventory adjustment posting type is entered in the comment field in the goods issues document.

Window structure, field description

The input window structure changes, depending on the entered information. Related fields become available depending on whether receiving, issuing or transferring takes place, whether a batch or a serial number is entered or whether there are different inventories or Production UoMs. The same applies to bin locations. If the bin location has been created, they are displayed for selection.

Field	Meaning
Work order	Displayed only if Production type was selected.

© 2026 Boyum IT Solutions A/S

The Work order area has three fields:

Document number, line and position. If new is selected from the position drop-down, "-1" is displayed in the field. A new work order position can be entered instead of the -1, the item and quantity can be selected.

1. Field - work order number

The work order can be selected from the drop-down list or scan:

a) The work order document number (Data field: beas_fthaupt.belnr_id).

b) The work order bar code (9 digits). It is used for posting in the assembly. The second and third field is filled automatically. (Data field: beas_ftpos.barcode)

c) The material bar code. Used to post material. (Data field: beas_ftstl.nummer)

(BoM - Extended - Bar code)

2. Field - work order line number

Select work order item to be issued or posted (Data field: beas_ftpos.belpos_id). Only items allowed to post are available (items not closed or blocked)

3. Field - work order position number

Select the BoM item to be posted (Data field: beas_ftstl.pos_id).

Only BoM positions that are not closed been closed, with warehouse oriented items are allowed.

Special case:

0 or empty = the assembly is posted.

-1 = a new BoM item is generated.

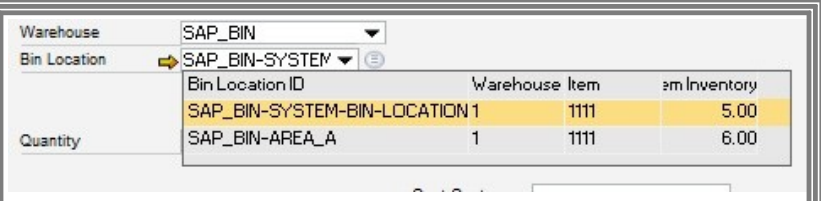
Blocked BoM positions

Blocked BoM positions cannot be selected, but the position number can be manually entered or scanned via

© 2026 Boyum IT Solutions A/S

	barcode. For postings, the respective authorizations are required. Post and create new BoM position It is possible, to issue material and to create a BoM position at the same time, if the position does not exist. Select the work order document and the assembly, and then select "new" in the third field.
Item	Item number. NOTE on WMS-related receipt: **WMS Integration:** If the receipt is made from BEAS in a WMS warehouse, it applies the Quality status defined in **Produmex WMS > Organizational Structure > Production tab**.
I-Version	Item version to be posted. *(beas 9.1 PL: 08)* Note: It is only possible to create a manual receipt of an item version with "Released" status.
Warehouse	Warehouse that item is posted to. ***See*** Warehouse rules. Note: As of Beas Manufacturing 9.3 PL03, Produmex WMS warehouses are supported for Beas transactions.
Bin location	Bin location to be posted to Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components: **Arrow icon** / List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location.

© 2026 Boyum IT Solutions A/S



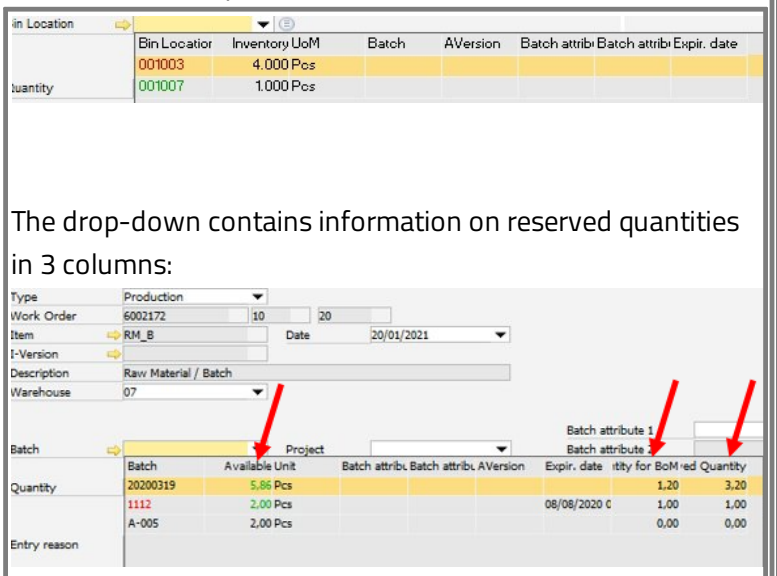
The selected drop-down option displays the following information in receipt documents:

- Bin Location
- Warehouse Area
- First item in this bin location
- Stock of the first item in this bin location

The list can be modified in the Configuration wizard.

The selected drop-down option displays the following information in issue documents:

- All stock information of all bin locations with batch- and serial number information.
- Reserved Batch quantities information



The drop-down contains information on reserved quantities in 3 columns:

The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

© 2026 Boyum IT Solutions A/S

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

- Notes: Beas Bin Warehouse

  The Definition of the bin location is mandatory.

- Notes: SBO Bin Warehouse

  If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
  This is entirely managed by SAP Business One.

  Drop-down for volume or weight is not supported. Columns are always 0.
  beas 9.3 PL 2

- Notes: WMS Bin Warehouse

  Bin location is mandatory.

© 2026 Boyum IT Solutions A/S

Drop-down for volume and weight not supported.

Customizing of the drop-down list in Beas 9.3 PL 2 or newer release

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent setbindropown`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

In the `e_bindropdownbsl` variable, the ODATA command can be defined.
It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$mask=1
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

© 2026 Boyum IT Solutions A/S

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

Window-specific adjustments:

Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.

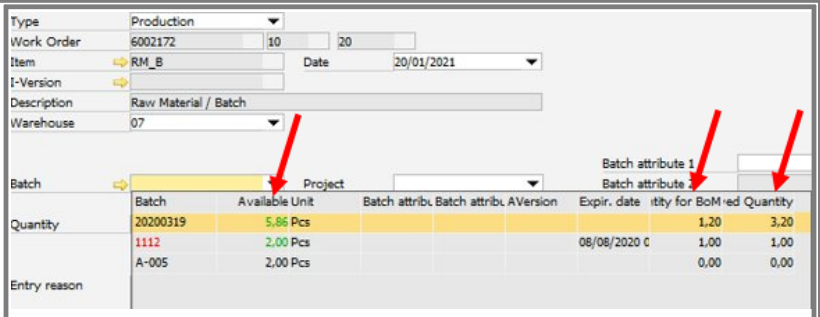
Example:

```
windowevent setbindropdown
setvar=e_bindropdown=ddsql=select "BINCODE" from
"BEAS_WHSBIN" where
```

© 2026 Boyum IT Solutions A/S

	"WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT" end event Note: This window event is supported in every window where the selection field is available. **General adjustment** Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration. file stockmanagement.src function binreceiptdropdown setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT" end function ***See*** Warehouse rules.
LUID	Define LUID number ***See*** LUID behavior settings. WMS Production receipt
Project	Link to an SAP Project code. The default value comes from the project linked to the work order. If continued stock is active in the database, the project code is included in the journal entry.
Batch/Serial	Click the orange arrow to generate a new batch or serial number. After this batch or serial number is firmly assigned and the arrow is hidden. Information on Reserved Batches: The drop-down contains information on reserved quantities in 3 columns:

© 2026 Boyum IT Solutions A/S



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

See:

Production – Batch administration

Materials management – Batch administration

Date	Posting date of the document. The default value is the today variable.
Quantity	The quantity to be issued. **Serial numbers:** For serial numbers only a quantity of 1 can be entered.

© 2026 Boyum IT Solutions A/S

	Serial number reservation Posting in a production assembly any quantity can be entered if the serial number determination is set to "automatic" for the respective item and the serial numbers have been reserved. In this case, a window opens where the serial numbers can be selected. ***See:*** Configuration wizard – Production – Serial numbers Concept Serial number reservation Item master – Series tab
Conv-Quantity	⊟ Enter posting quantity in consumption units Only displayed, if the consumption unit does not match the warehouse unit of the item. ***See*** consumption unit The entered quantity is converted to warehouse unit. Length, width and height are indicated. These parameters are considered, using the conversion formula. ***See*** Conversion
Close	⊟ Close WO position Only visible, if a production assembly is posted. Set automatically, as soon as the planned quantity is reached. Manual change is possible. The behavior can be defined in Configuration wizard - Close assembly automatically. If the option is active, the production position is closed after receipt.
Cost center	⊟ Select cost center If no cost center is selected, the default settings apply. **Adaptation** Use the script in workordermanagement.src and materialmanagement.src to extend determining the cost center.

© 2026 Boyum IT Solutions A/S

	See Configuration wizard - Production - Material - Account determination Configuration wizard - Production - Assembly - Account determination Item - General - Cost center
Entry reason	Free text to add information.
Pricing	Shows the method determining the price. Automatically filled.

Production Assembly	Settings apply from **Production > Valuation and booking of the assembly > Valuation**
Post in positive BoM item	Settings apply from **Materials management > post in manually > Purchased items pricing booking**
Post in negative BoM item	Settings apply from **Calculation > Precalculation > Pricing negative BoM**
Other posting	Settings apply from **Materials management > Post in manually > Purchased items/In-house production pricing booking**

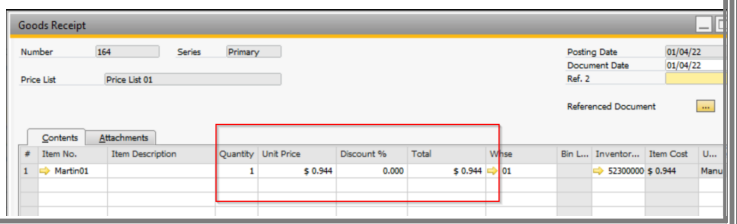
SAP Limitation:

SAP Manual receipts: When Beas creates a receipt document, the system calculates the Unit price based on calculating the Total price of the booking.

The difference between the decimals of SAP and Beas can cause mismatch between the values: The "Total" price field may be rounded as the Unit price is defined with a different

© 2026 Boyum IT Solutions A/S

number of decimals.



Additional fields are available at transfer:

Field	Description
To	Define the warehouse to transfer to. The To warehouse can only have the same entry as Warehouse if it is a bin location inventoried warehouse. A pure bin location transfer is then possible. Note: A bin location move instead of a SAP Business One - Transaction runs at a bin location transfer. There is no account movement, no calculation of FIFO prices or average prices. The bin location entry is changed. An entry is created in the bin location-movement protocol.
Bin Location	Define the bin location to transfer to. For further information, ***see*** from bin location.

Functions and Buttons

Button	Description
Cancel	Cancel the process.
Batch list (F3)	Inventory list by batches This button is only visible if a batch related item is selected.
Book (F2)	Start the booking process.

Events

© 2026 Boyum IT Solutions A/S

Every posting process creates several events, which can be set as default or customized (***see*** customizing).
Posting finished products (assigned to a work order), calls the assignment program which controls closing, pricing, and batch administration. An external materials management system can also be connected and used in parallel.

- Account settings

Accounts that are used, depend on the posting type. If a posting is performed with reference to a work order, generally the WIP account of the work order is used. In other cases the default account of SAP Business One is used. Account settings can be changed in the Configuration Wizard.

See:
Materials management - manual postings
Production – posting
Production – Account determination

- Pricing

Pricing depends on the posting type. If an assembly is posted in for a work order, pricing is performed as set up in the work order, if there was nothing set up, the settings in **Configuration wizard > Materials management** apply.

See:
Materials management - Pricing
Production Valuation of assembly

- Batches and Serial numbers

See
Configuration wizard – Batch administration
Configuration wizard – Serial numbers

7.9.1.1 manual issue

An item can be issued with this function.

See: Manual postings

- Automatic quantity pre-allocation

If the "work order" type is selected, and document number, assembly and material position are entered, the remaining demand quantity is proposed, regardless of the stock.

© 2026 Boyum IT Solutions A/S

This quantity recommendation is also made if the barcode is used for registration or if the posting screen was accessed through the work order structure view.

- Cancellation mode

When calling up the window via **Production > Work order document (posting-in assembly) > Cancellation** all information from the posting document are used including accounts to which the booking was made, post-calculation information, batches/serial numbers and prices.

Note:
Correct booking of costs and valuation work only if the cancellation function is used.
An issue is always performed at the valuation price. Only using standard costs method, the price for posting in and issue is the same. For all other valuation methods (average, FiFo) the current valuation price is used. As a result, differences on the WIP account may arise.

If continuous stocktaking is disabled, the correct price can be used. That means, for issue the same price is used as for posting in.

If a valuation method is used which depends on the calculation, the cancellation mode corrects the valuation tables. The subsequent assembly postings are made correctly. This works only for postings made with beas9.0 or later. Otherwise after cancellation a message is issued, "bm9494" tells that bookings cannot be valued correctly.

See WO structure material postings – Cancellation

See

Link to serial numbers/batches

Cancellation window

back to manual postings

7.9.1.2 manual receipt

The Goods receipt allows to post or to store an item. The options on the manual receipt screen are the same as for the manual issue window. ***See*** Manual postings description for the field descriptions.

See

Special case posting type "production"

Link serial numbers / batches

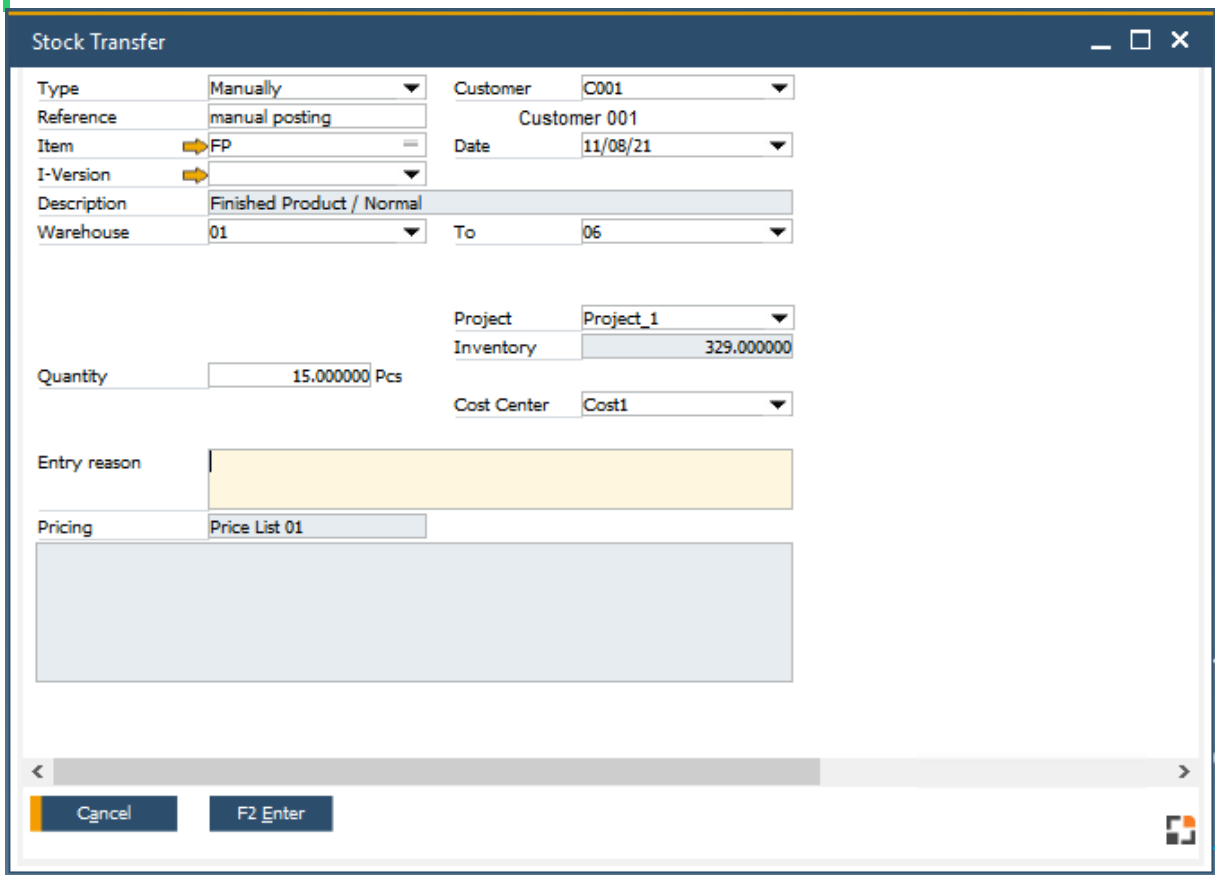
manual postings

© 2026 Boyum IT Solutions A/S

7.9.1.3 transfer manually

Stock transfer can be used for transferring one item from one warehouse to another. A bin to bin transfer in one warehouse is also possible.

PATH: Inventory > Inventory transactions > Stock transfer (single event)



Window mw_manuell_buchen.psr

Transfer and Reservation

You can transfer reserved material only if you define the linked document.

Example: You reserve material for work order 1000, Pos 10/20.

In Stock transfer you must define Type = Production and Position 10/20 and then it is possible to transfer the material.

The System deletes the reservation from the old warehouse/bin location, but it does not create a new reservation on the new place. You lose the reservation information.

© 2026 Boyum IT Solutions A/S

Note:

POI (Folio Numbering) is not supported.

It is not possible to transfer material reserved for a Sales order or Pre-invoice.

SAP Transfer (Standard):

From transfer request, created by Beas (linked to work order): Reservation supported.

For all other: You can't transfer reserved material.

For detailed field descriptions and function buttons ***see***: manual postings.

7.9.1.4 Batch list

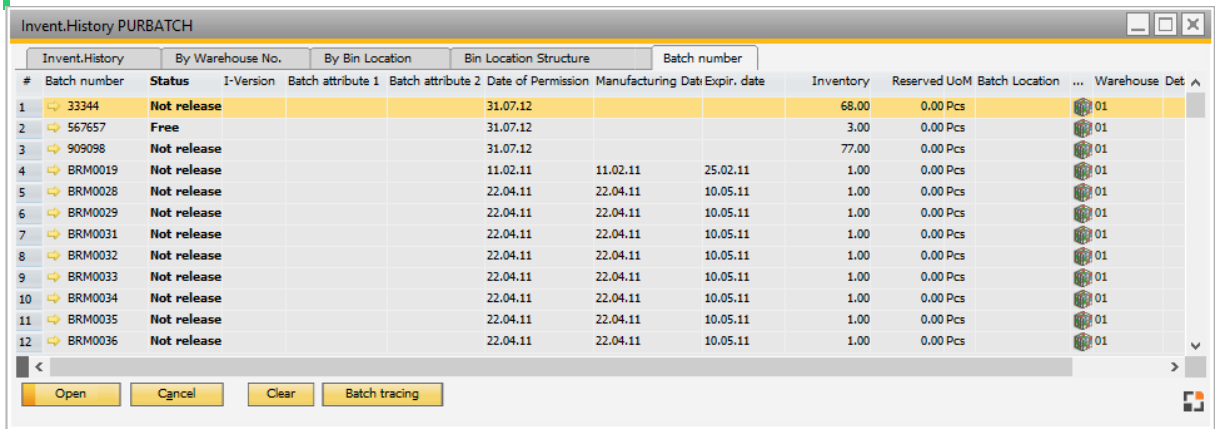
Batch list can be called up from Manual postings (receipt, issue, transfer).

In case a batch item was selected, the "**F3 Batch report**" button is available.

Window settings and Templates are available.

All batches with current stock are displayed for the selected item.

PATH: ***see*** above.



Window: artikel_bestand_nach_charge.psr

Field descriptions

Column	Description
Item number	Item number
I-Version	Item version
Batch	Batch number

© 2026 Boyum IT Solutions A/S

Description	Item description
Warehouse	Current warehouse
Bin location	Bin location code
Status	Not released / Free / Locked / access denied
Inventory	Current stock of the bin location
Reserved	Reserved quantity of the bin location (if there are no bin locations, quantity of the warehouse)
Self produced	Check mark shows if the item batch was produced
UoM	Unit of measurement
Batch attribute 1	Free text
Batch attribute 2	Free text
Expiration date	Expiration date
Manufacturing date	Manufacturing date
Date of permission	Date of permission
Location	Batch specific information. Can be used for location description, if bin location management is not used.
Details	Free text
Customer name	Customer name from first order (filled in from SAP)

Functions

Function	Description
Open	Open the Batch details window.
Cancel	Close window without changes.
Clear	Remaining stock of the batch is issued.
Batch and serial number tracing	Open the Batch- and Serial number tracing window.

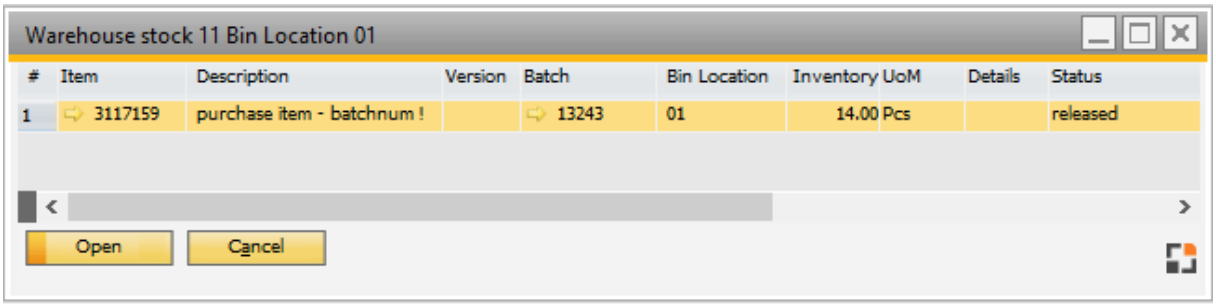
7.9.1.5 Stock on bin location

The current stock of the selected item or the bin location.

Window settings are supported, inventory history can be called up. Item – Preview is supported.

PATH: manual inventory transaction > select Bin warehouse > double-click yellow arrow right of "Bin Location" field.

© 2026 Boyum IT Solutions A/S



Window bin_whsbinitem_browse.psr

Field	Description
Item	Item number
Description	Item description
Batch	Batch ID
Bin location	Bin location of the item
Unit of Measure	Unit of measure of the item
Reservation	Available reservations
Weight	Weight of the item
Volume	Volume of the item
Last good receipt	Last good receipt

Right-click menu

Field	Description
Window settings	Open the Window settings.
Inventory history	Open the Inventory history.

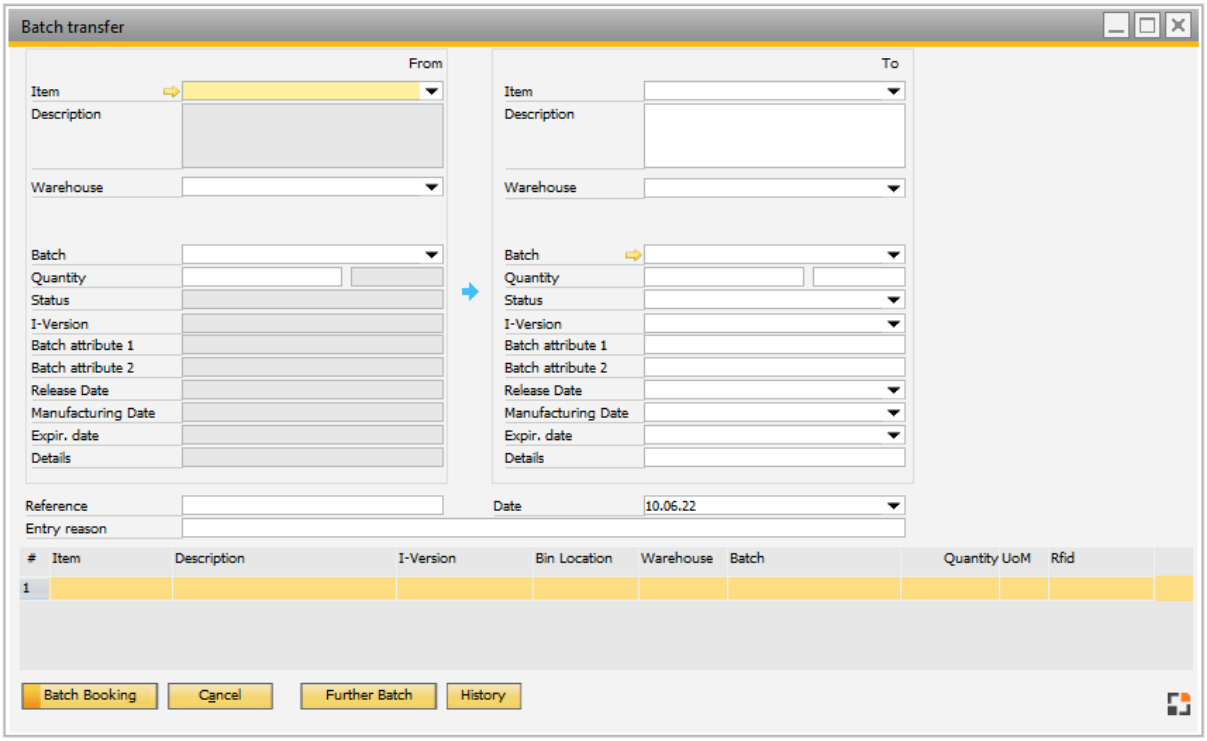
7.9.2 Batch transfer

This module offers the following possibilities:

- Transfer batches or a part of a batch to an existing or a new batch.
- Mix several batches into one.
- Combine several batches of different items with another item or batch.

PATH: Inventory > Inventory transactions > Batch transfer.

© 2026 Boyum IT Solutions A/S



Window mw_batchnum_transfer.psr

Items with different batches and different quantities from same warehouse can be summarized to new batches. The total quantity is proposed by the program and can be changed later. The active batch, marked for editing, is highlighted.

A table with two columns is displayed, the batch is transferred from left to right. See image above and field descriptions below.

Behavior is defined in the Configuration wizard – Batch transfer.

	from	**to**
Field	**Description**	**Description**
Item From/To	Select item from whose batch to transfer to an existing or new batch.	Choose item to which the batch selected in the "From" field should be transferred.
Description	Description of the item.	Description of the item.
Warehouse	Select source warehouse of the batch to transfer.	Add target warehouse of the batch to transfer.
Bin Location	Select source bin location of the batch to transfer.	Add target bin location of the batch to transfer.

© 2026 Boyum IT Solutions A/S

Field	Description	Description
	SAP, Beas and WMS Bin Manage supported *(beas 2020.02)* Here you choose the Bin location and Batch number. In Bin managed warehouses you can't choose Batch number in Batch number field	SAP, Beas and WMS Bin Manage supported *(beas 2020.02)*
Batch	Number of original batch Only selectable, if not Bin managed warehouse	Number of new batch A new batch will be created by single-clicking the yellow arrow. Up until *beas 9.2*: The batch according to the goods receipt definition is used in all cases. From *beas 9.2*: The behavior can be defined in the Configuration wizard.
Quantity	Quantity of current Batch, which you want to transfer to new batch number on right side	Quantity of new Batch
Status	Status of Batch	New Batch status. Define the Status of this Batch after the transaction. Only editable if you create a new Batch. For existing Batches it is not possible to define new status in this window. **Attention:** The system does not check any rules. You can release the Batch without any quality control, and you can transfer a locked batch to a released batch.
Batch attribute 1+2 I-Version Release date Details	Batch number information. Only for information. Not changeable	Various, Batch number-related pieces of information. Only editable if you create a new batch number

© 2026 Boyum IT Solutions A/S

Field	Description	Description
Manufacturing Date Expir. date		
Reference Date Entry reason	Reference information, Post date and Notes for transfer (issue/receipt) document	

Functions

Function	Description
Batch booking	Click Batch booking to issue the total amount of the batches to be split and to post in the batches to be created (in the background an issue and a receipt document are generated.
Further batch	Insert the next batch into the line.
History	Open the History log window.

- Pricing

The batch on the right side receives the total price of all batches selected on the left side.
Use Perpetual Inventory active: The price which is stored in the journal of the charge-off document is used here.
Use Perpetual Inventory disabled: The total price which is stored in the charge-off document is used here.

Example:
left side (Issue document): Batch 1: `1x3€ + Batch 2: 2*4€ = total 11€`
right side (Receipt document): The new Batch is posted in with `11€`

Additionally, a booking reason and reference to this process can be entered.
Batch control: original and target batch may not be equal.
A pure bin to bin transfer is not possible if there is an assignment to a sales order or if the batch is reserved. After editing by pressing "post batches" the batch is transferred. The button "History" shows all previously performed transfers, and a separate document is created for each batch.

Note:

© 2026 Boyum IT Solutions A/S

Batch transfer creates 2 documents: Issue and Receipt.
In the issue document created by the Batch transfer you can see the *Info price.*, which is not the same as *Stock price*.
You can see the correct price in the column "item cost"
Example:
Info price is 1715€ and Item Cost is 863,41€
For the Receipt document Beas is using the Item cost price, because this is the price, which you can see in the journal entry.

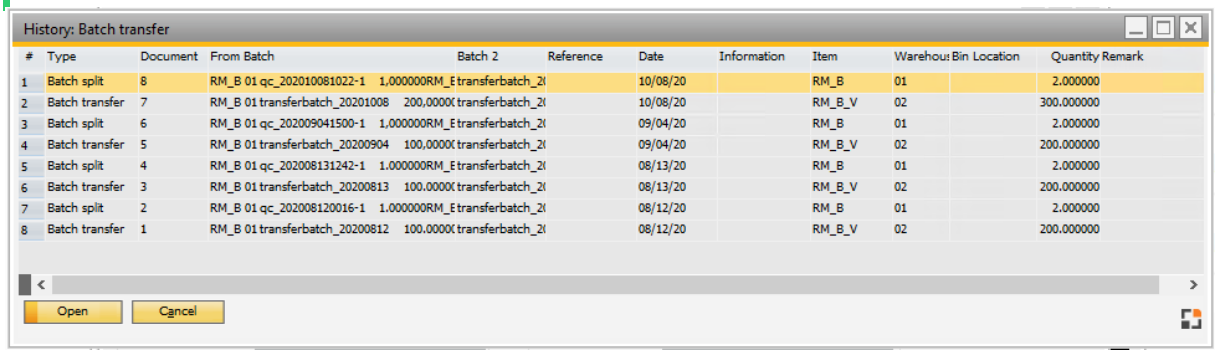
Batch Transfer Pricing

Rounding problem:
If the price only saved with 2 decimal places (SAP Definition - count of decimal places for prices) and you work with high quantity, then this can produce a rounding problem and different prices between Issue and Receipt
Workaround: increase count of decimal places for prices.

7.9.2.1 History

In Batch Transfer / Split Batches you can open the history log via right mouse click.
In this window you see all created split/transfer documents with all details.

PATH: Inventory > Inventory transactions > Batch transfer > **History** button.



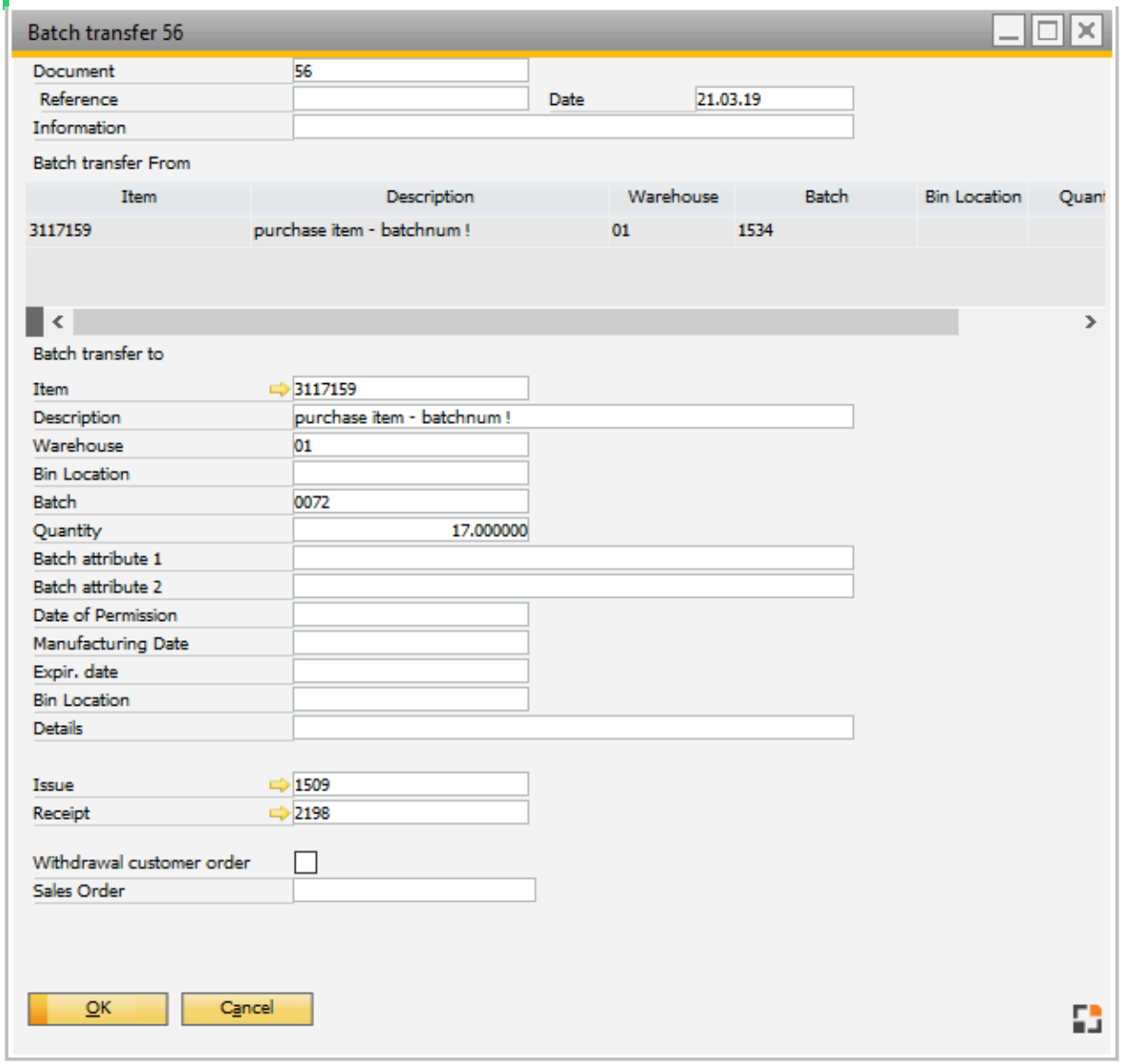
Window mw_batchnum_transfer_historie.psr

Double-click or use the "Edit" button to open the created document.
Beas creates an issue and receipt document in the background.

In this document you see an overview of the complete transaction process and you can open the created issue and receipt document.

© 2026 Boyum IT Solutions A/S

PATH: Inventory > Inventory transactions > Batch transfer > "History" button > double-click/**Open** an entry in the list.



Window mw_batchnum_transfer_historie_detail.psr

7.9.3 Batch Split

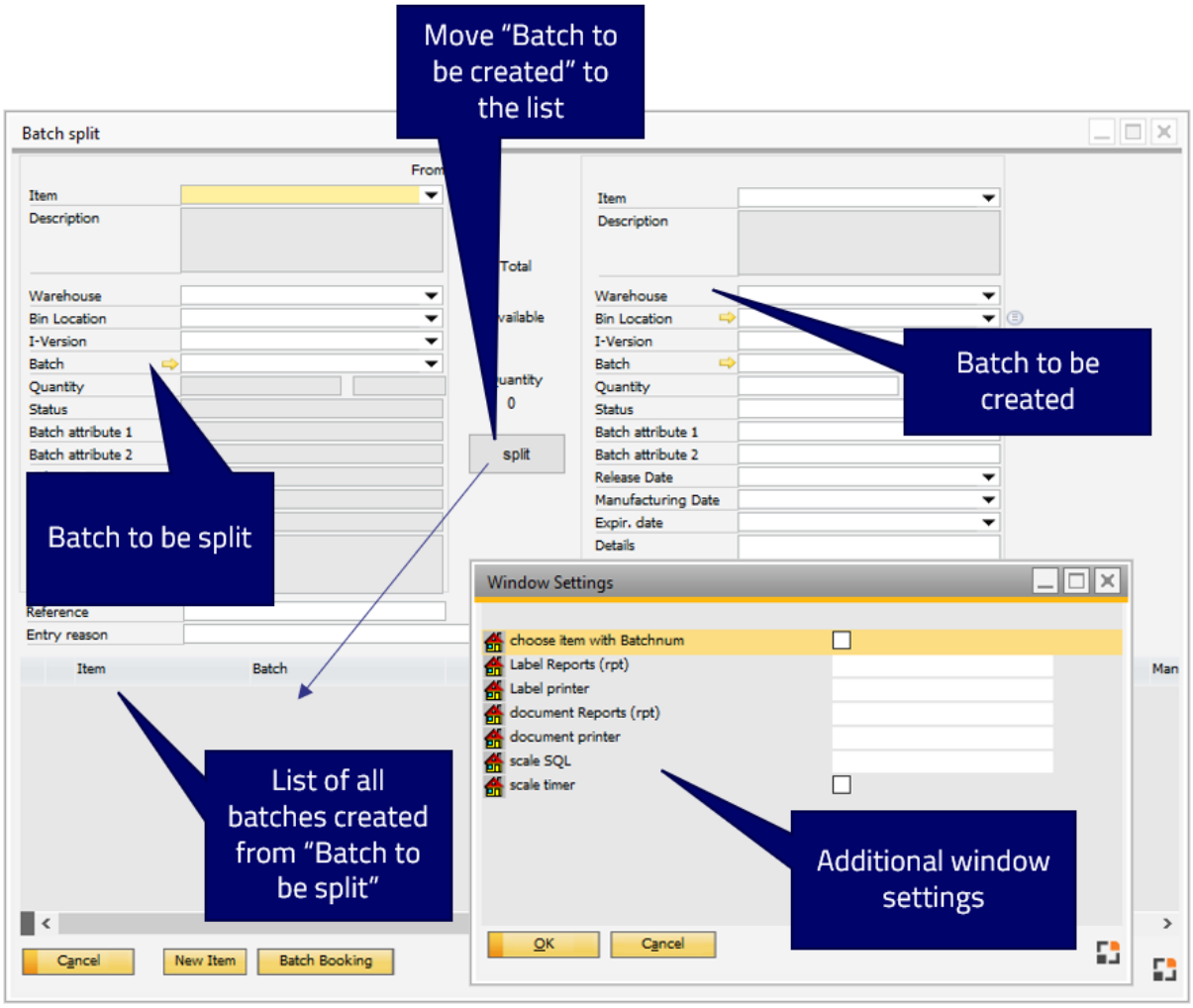
In this window an item batch can be divided into several item batches. In this case, neither the item number nor the batch lot number needs to match. The quantities of source and target batch may differ, only the current stock is considered as limit.

PATH: Inventory > Inventory transactions > Batch split.

The window is divided into three areas:

© 2026 Boyum IT Solutions A/S

Area	Description
Top left	Batch to be split.
Top	Batch to be created.
Below	Already selected batch to be created.



Window mw_batchnum_splitt.psr

Process description:

Indicate the batch to split (left) and the batch to be created (right). The amount of the batches to be created may not exceed the amount of batches to be divided. Different units of measurement are not considered.

Clicking on **Split** the batch on the list below is accepted and the "available" value is reduced accordingly.

© 2026 Boyum IT Solutions A/S

Click **Batch booking** to issue the total amount of the batches to be split and to post in the batches to be created (in the background an issue and a receipt document are generated)

In parallel, a transfer document is created with its own document number. There the numbers of the related documents for receipt and issue are stored. Documents are accessible via **right-click - archive.**

- Window settings

The behavior of the batch split function can be adapted using **right-click – window settings**. These are saved as workstation-specific.

Window setting	Description
Choose item with batchnum	If enabled, batch numbers and bin locations are displayed in item selection list. Thus all information is displayed in a list. Note: This list can get very long. If disabled: Only batch-related items with stock are displayed.
Label Reports	A report can be stored which is generated when clicking "divide". Parameters for the report: `itemcode, distnumber, quantity, unit, whscode, bincode, mnfserial, lotnumber`
Label Printer	If another printer than the default printer shall be used for printing the label report, enter the printer name here.
Document Report	A Crystal-Report can be stored. It is printed when clicking on "post batch" . Parameters for the report: `docentry` This refers to the table `beas_batchnumtrans.docentry` where all additional information is stored.
Scale SQL	A SQL-statement can be stored returning the quantity. ***Example***: `select top 1 weight from my_scale_table order by nr desc` ***Example*** of use: scales are entering the weight to an SQL table. The entered value is transferred clicking the button "scale".

© 2026 Boyum IT Solutions A/S

Window setting	Description
Scale timer	If enabled, scale SQL is executed every 2 seconds and the last weight is used.

Note:

SAP and WMS Bin Management are not supported in this window.

Pricing

The system creates 2 documents
- Issue document for the item which you want to split
- receipt document for all entries

The system uses standard pricing for issue / receipt

Issue document

Basic Initialization - Use Perpetual Inventory is disabled:

Beas uses price from the Configuration wizard - Purchased Items Pricing Booking or In-house Production Pricing Booking

The system converts the price to home currency, saves this in field "Price per Unit" and does not use any rounding.

Basic Initialization - Use Perpetual Inventory is enabled.

The system uses SAP Standard; the item valuation method.

Receipt document

Beas uses price from the Configuration wizard - Purchased Items Pricing Booking or In-house Production Pricing Booking

The system converts the price to home currency, save this in field "Price per Unit" and does not use any rounding.

Note:

The system writes the Price and Unit price, not the total price.

The total price of the Issue document is not the price of receipt document.

Beas does not manage the rounding as it is completely managed by SAP.

© 2026 Boyum IT Solutions A/S

When applying Batch split with serial/batch valuation method, consider that Goods issues will be created according to the SAP serial/batch valuation method. However, Goods receipts are generated according to average price valuation.

Example:

An Item has 2 batches

BN001 - 10 units x 10€ = 100€
BN002 - 10 units x 5€ = 50€

Using the Batch split function:
Split 5 units of BN001 to BN002 (the system issues 5 units of BN001, then receipts 5 units of BN002)

Cost of the goods issues of BN001 is calculated by SAP (using batch/serial valuation) as 5 units x 10€ = 50€

Cost of the goods receipt of BN002 is calculated as average price of all batches in stock at the moment the goods receipt is going to be created.

BN001 5 units x 10€ = 50€
BN002 10 units x 5€ = 50€

Cost average at the goods receipt is = (50 + 50) / 15 = 6.66666666€

7.9.4 Inventory (Stocktaking)

Beas extends the standard stocktaking of SAP Business One with the following features:

Extended functions:

- Part inventory across multiple warehouses and storage areas
- Stocktaking templates, administration of counting lists, inventory valuation
- Full support for batch and serial numbers and bin locations
- Easy import of counted stock, freely adjustable counting and recording list
- Cycle Count Recommendations – with stocktaking, correction of stock and bins

© 2026 Boyum IT Solutions A/S

- Log and archive for all inventory transactions

INTRODUCTION TO INVENTORY COUNTING:

Introduction to Inventory Counting – PDF presentation

INVENTORY COUNTING - WEBINAR 2017

Note:

SAP Bin Management and WMS Bin Management are not supported.

The following types of stocktaking are available:

- Annual inventory count

Use annual inventory count to register all stock on a given date. System stock is compared to counted stock, differences are corrected automatically. Only differences are registered.

Process

Define annual inventory count

Start stocktaking, save system stock

Optional: create counting lists

Register counting lists, ***see*** counting list, single registration, WEB-Application. NOTE: only registered entries are corrected and posted.

Check counting lists

Post differences

Close stocktaking

Note:

Only the difference is posted between stock and counting list to the moment of stocktaking. In this period there may be no goods movements.

Example:

Stocktaking started 20.12. for warehouses 01 and 02

Counting lists are printed. Goods are counted in warehouse 01. Counting completed. From now it is allowed to post goods to warehouse 01.

© 2026 Boyum IT Solutions A/S

The differences are posted once counting in warehouse 02 has finished and all values have been registered.

- Cycle Count Recommendations

Use this feature to get recommendations for stocktaking and start a counting for the selected items.
Prerequisites:
- Define inventory cycles. ***See*** **SAP Business One > Inventory cycle > Definition.**
- Store inventory cycle in the item. ***See*** **SAP Business One > Regular inventory > Definition.**

The process of the Cycle Count Recommendations function is the same as for annual inventory count.
See Annual inventory count.
Cycle Count Recommendations.

- Inventory Opening Balance

Use Inventory Opening Balance function to import or register stock for the first time.

Process
Start initial stocktaking with the Inventory Opening Balance function,
Import stock or use counting lists, single registration
Check counting lists
Post in stock

- Work with SAP Standard Inventory

Beas-stocktaking function replaces the original SAP Business One function. We recommend to use the Beas function because all rules of the Beas-logic (e.g. reservation feature) are taken into account. Nevertheless, it is possible to use the original SAP Business One function. To do so go to **Configuration wizard > Materials management > Warehouse management > Use original SBO inventory**

However, this is not recommended as several problems could occur when using the SAP Business One inventory:

- no support of bin location management

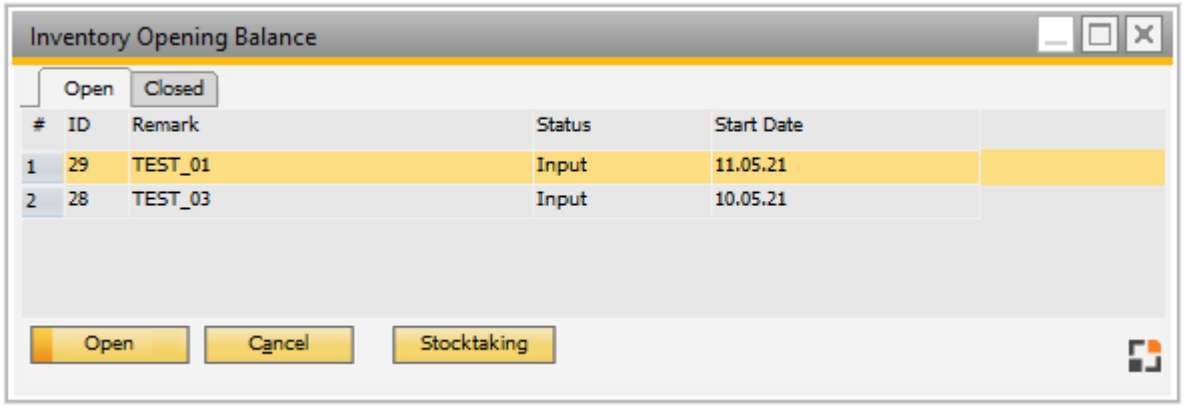
© 2026 Boyum IT Solutions A/S

- posting problems with reserved goods

7.9.4.1 Inventory Opening Balance

Window for new or initial stocktaking. Here you can insert items that are going to be received in the system for initial inventory.

PATH: Inventory > Inventory transactions > Inventory Opening Balance.



Window mw_inventory_header_browse.psr

Open tab

List of all open entries.

Closed tab

List of all closed entries.

Field	Meaning
ID	Inventory ID.
Remark	Description of Inventory.
Status	Open / archived.
Start date	Start date.

Functions

Function	Meaning
Inventory Administrate	Open selected Stocktaking for editing.
Cancel	Close window.

© 2026 Boyum IT Solutions A/S

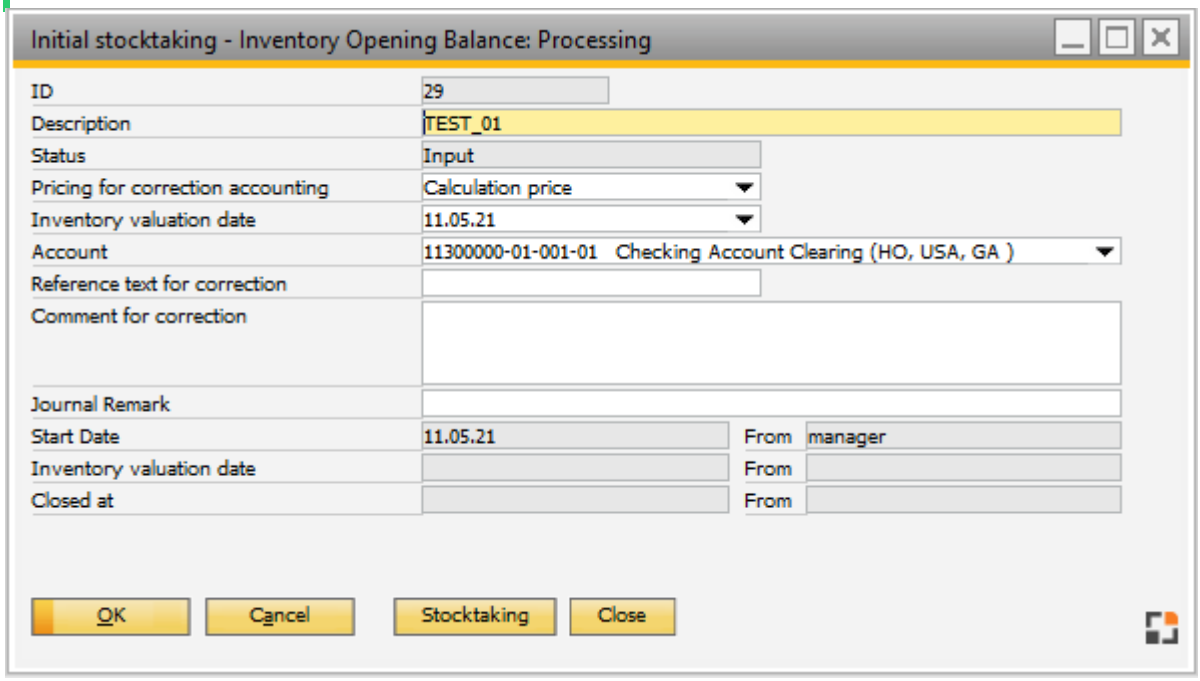
New Inventory	Start new Stocktaking.
Stocktaking	Open Stocktaking management window.

Window settings and templates are available.

back to Inventory

7.9.4.1.1 Edit stocktaking

PATH: Inventory > Inventory transactions > Inventory Opening Balance > **Open / Inventory Administrate** button.



Window mw_inventory_header_stocktaking.psr

Field	Meaning
ID	ID of this process
Description	Description
Item From / To	Filter.
Item property	Filter.
Item group	Filter: can be used to narrow down the number of items to be counted. Only creation of stocktaking / counting list is affected. The "register new" feature is not affected.

© 2026 Boyum IT Solutions A/S

Status	Status of inventory: Input, registration, booked, closed.
Warehouse	Warehouse for which a stocktaking is to be performed. Use the drop down-arrow to select warehouse areas. Note: Beas inventory is not compatible with SAP Bin Managed or WMS-managed warehouses. You cannot select only not bin-managed warehouses or Beas bin-managed warehouses.
Warehouse areas	Selected warehouse areas.
Pricing for correction accounting	Pricing, used for difference posting. Note: Only prices > 0 are taken into account. Pricing type cannot be changed subsequently. If prices are changed, you cannot correct them as long as stocktaking was not completed. ***See*** Inventory list – new valuation. The "last purchase price" is used if no price was stored in the indicated price list. Note: on continuous pricing The price determined here cannot be considered at issue, if continuous pricing is active and the material had to be issued because of a negative difference. For issues, generally the pricing stored in the item is used.
Inventory valuation date	Valuation date for stocktaking. If corrections are required, these will be posted with this date. Note: At the moment of posting, the date may be in future only if this was allowed in **SAP Business One > Administration > System initialization > Document settings > Allow future posting date**

© 2026 Boyum IT Solutions A/S

	See Difference posting.
Account	Select an account to book the values.
Stock increase / reduction	If to use another than the standard account, enter the account here.
Reference text for correction	The entered reference text will appear in correction bookings.
Comment for correction	The entered notes will be added to correction bookings. Beas place holders are supported eg. <today> for the date, at which the posting was performed
Journal Remark	Content of this field will be copied to SAP Business One document "goods receipt" into field "Journal remark", this information is saved in the journal entry. If this field is empty, then default value will be assigned by SAP Business One automatically.
Start date	Time and date, user who started the stocktaking.
Posting date	Time and date, user who started the last difference posting.
Closed at	Date and user who closed the inventory.
As template Save	This stocktaking will be saved as "Inventory Template".

Button	Meaning
OK	Saves stocktaking and closes window.
Cancel	Cancellation without saving.
Stocktaking	Stock is posted into the system.
Close	Completes the inventory, and displays it in Inventory Opening Balance > Closed tab.

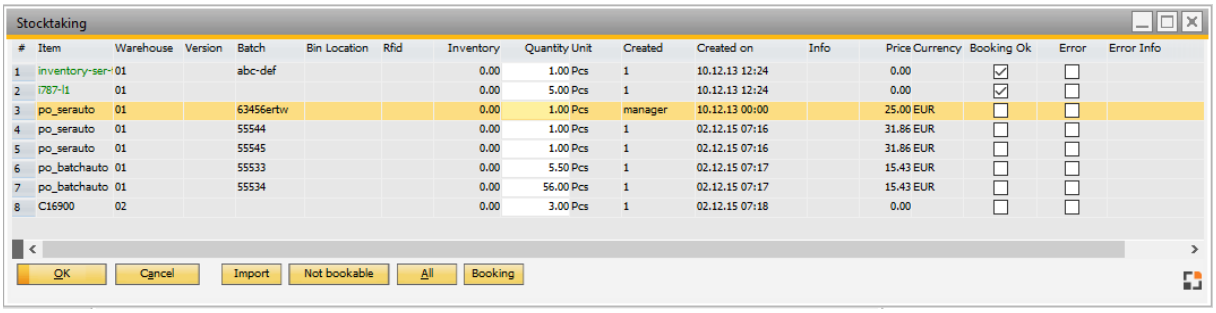
back to Inventory Opening Balance

7.9.4.1.2 Manage stocktaking

In this window you can edit the inventory. Description and Pricing are required fields for initial recording. Enter quantities and press **Update**.

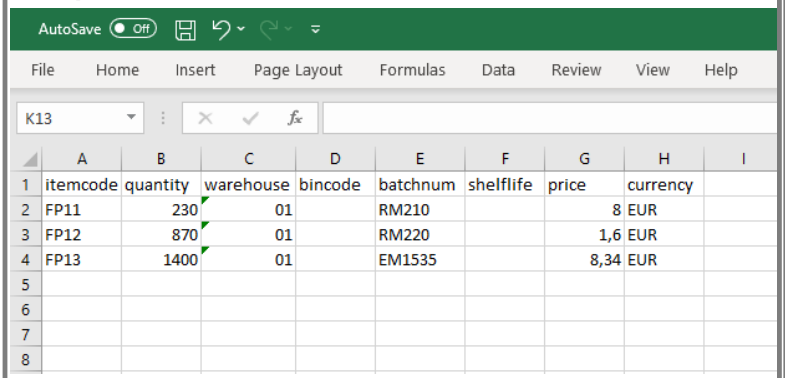
PATH: Inventory > Inventory transactions > Inventory Opening Balance > **Stocktaking** button.

© 2026 Boyum IT Solutions A/S



Window mw_inventory_header_stocktaking_browse.psr

Function

Function	Meaning
Add	Create new inventory entry.
Remove	Delete inventory entry.
Import	Import stock information Create a tab-separated text file: The file needs to contain the following tabs (even if fields in certain tabs are left empty) in the following order: itemcode, quantity, warehouse, bincode, batchnum, shelflife, price, currency, version. ***Example:***  Note: The maximum limit is 10.000 lines! If you have more lines, they must be split. If Beas creates the receipt documents, the system splits this list to max. 500 lines / document. ***See*** Difference posting.
Not bookable	Filter: show only entries which could not be posted.

© 2026 Boyum IT Solutions A/S

All	Filter: off.
Booking	Post in stock according to difference posting.

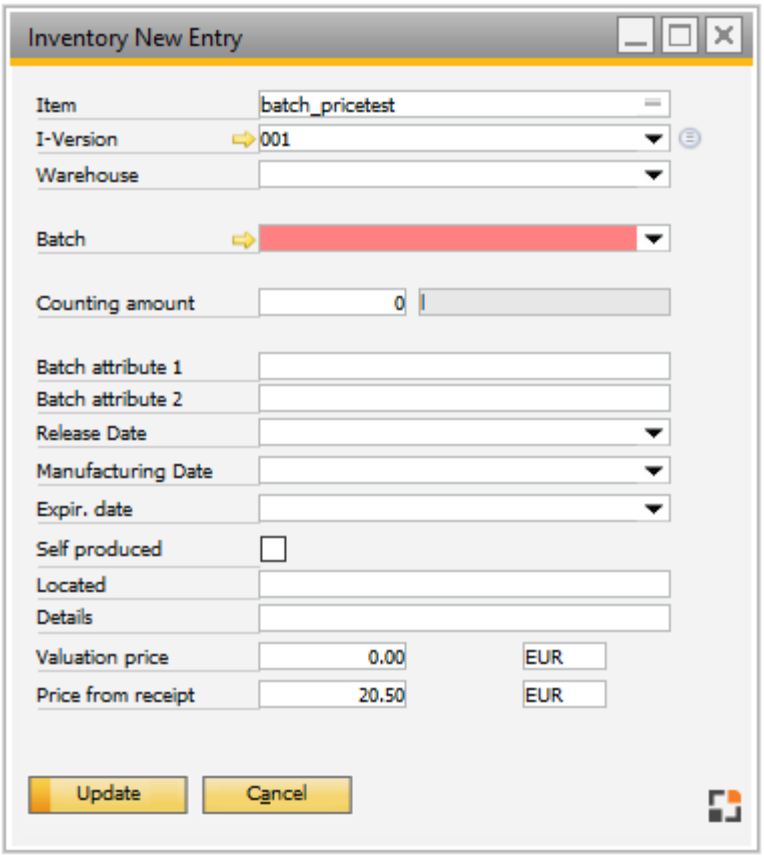
Window settings and templates are available.

back to Inventory Opening Balance

7.9.4.1.2.1 Inventory New Entry

In this window you can create a new inventory entry from the Stocktaking window.

PATH: Inventory > Inventory transactions > Inventory Opening Balance (initial stock) > Stocktaking > right-click: **Add**



Window mw_inventory_counting_edit.psr

Field descriptions

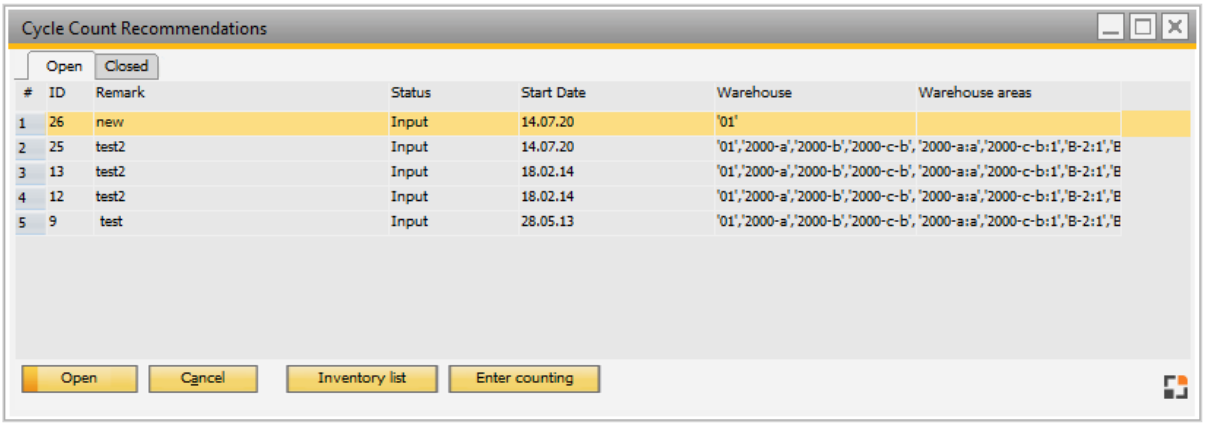
Field	Descriptions
Item	Select an item.

© 2026 Boyum IT Solutions A/S

Field	Descriptions
I-Version	Provide item-version if applicable.
Warehouse	Define warehouse
Bin Location	Define bin location
Batch	Add batch number
Counting amount	Add counting amount
RFID	RFID
Batch attribute 1-2	Free text to provide attributes to batches
Release date	Date of Release
Manufacturing date	Manufacturing date
Expir. date	Expiration date
Self-produced	Activate check-box if item is self-produced
Located	Location information
Details	Free text
Valuation price	Valuation price
Price from receipt	Price on the receipt

7.9.4.2 Cycle Count Recommendations

PATH: Inventory > Inventory transactions > Cycle Count Recommendations.



Window mw_inventory_header_browse.psr

Open tab

All closed stocktaking are displayed.

© 2026 Boyum IT Solutions A/S

Closed tab

All closed stocktaking are displayed.

Fields

Column	Meaning
ID	Stocktaking ID.
Remark	Remark.
Status	Open / archived.
Start date	Start date.
Warehouse	Warehouse of stocktaking.
Warehouse areas	Warehouse areas included in stocktaking.

Functions

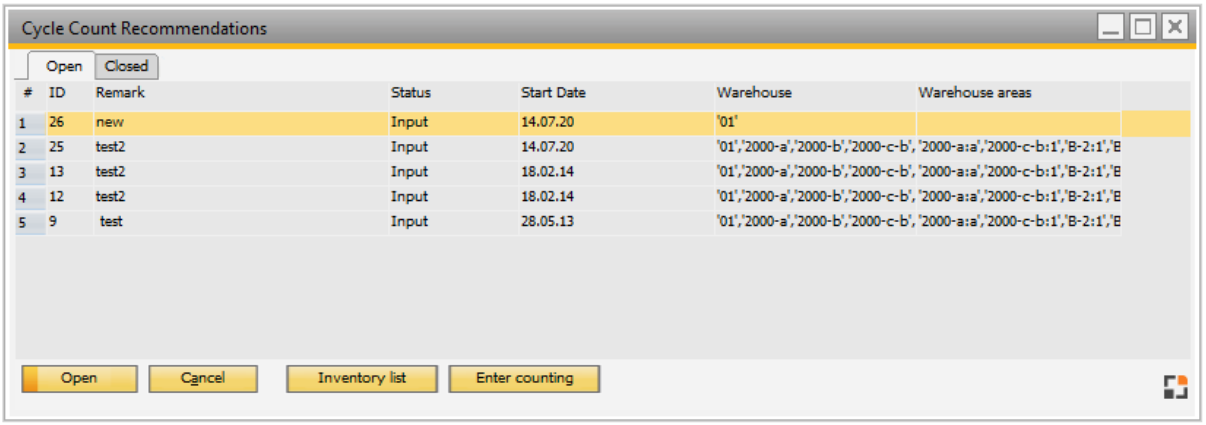
Function	Meaning
Open / (right-click: Inventory Administrate)	Opens selected stocktaking for edit.
Cancel	Close window.
New Inventory	Start new stocktaking.
Inventory list	Manage counting lists and counted stock, post.
Enter counting	Open window to enter counting results for selected stocktaking.

back to Inventory (Stocktaking)

7.9.4.3 Annual inventory count

PATH: Inventory > Inventory transactions > Annual inventory count.

© 2026 Boyum IT Solutions A/S



Window mw_inventory_header_browse.psr

Open tab

All closed stocktaking are displayed.

Closed tab

All closed stocktaking are displayed.

Column	Meaning
ID	Stocktaking ID.
Remark	Description.
Status	Open / archived.
Start date	Start date.
Warehouse	Affected warehouse.
Warehouse area	Affected warehouse area.

Button	Meaning
Open	Opens selected stocktaking for edit.
Cancel	Close window without saving changes.
New Inventory	Start new stocktaking.
Inventory list	Manage counting lists and counted stock, post.
Enter counting results	Open window to enter counting results for selected stocktaking.

Window settings are available.

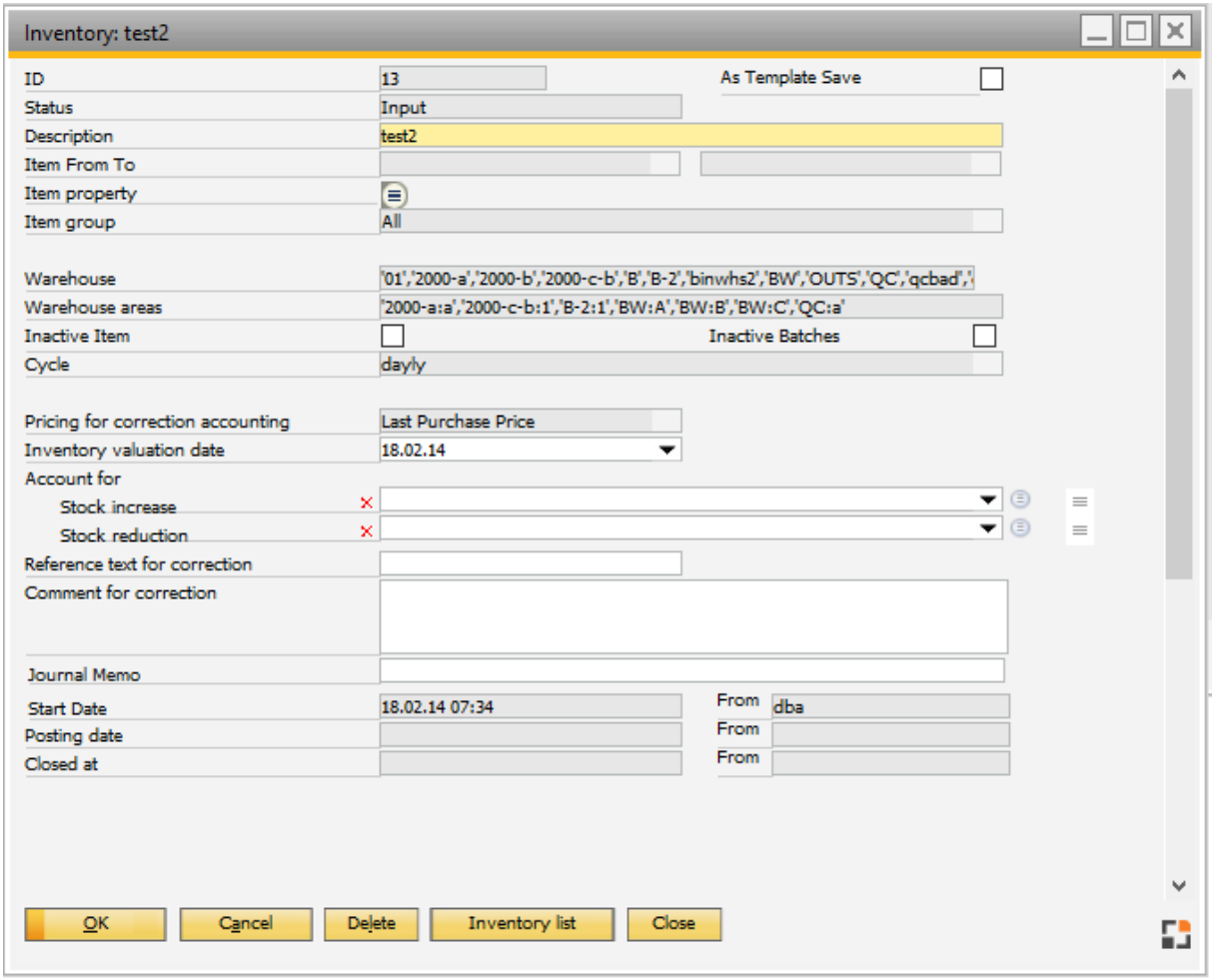
back to Stocktaking

© 2026 Boyum IT Solutions A/S

7.9.4.3.1 Edit inventory

PATH: Inventory > Inventory transactions > Annual inventory count > double-click an entry / **Inventory Administrate** button.

In this window you can edit the properties of Inventories.



Window mw_inventory_header_edit.psr

Field	Meaning
ID	ID of this process
Description	Description
Item From / To	Filter.
Item property	Filter.
Item group	Filter: can be used to narrow down the number of items to be counted. Only creation of stocktaking / counting list is affected. The "register new" feature is not affected.

© 2026 Boyum IT Solutions A/S

Status	Status of inventory: Input, registration, booked, closed.
Warehouse	Warehouse for which a stocktaking is to be performed. Use the drop down-arrow to select warehouse areas. Note: Beas inventory is not compatible with SAP Bin Managed or WMS-managed warehouses. You cannot select only not bin-managed warehouses or Beas bin-managed warehouses.
Warehouse areas	Selected warehouse areas.
Pricing for correction accounting	Pricing, used for difference posting. Note: Only prices > 0 are taken into account. Pricing type cannot be changed subsequently. If prices are changed, you cannot correct them as long as stocktaking was not completed. ***See*** Inventory list – new valuation. The "last purchase price" is used if no price was stored in the indicated price list. Note: on continuous pricing The price determined here cannot be considered at issue, if continuous pricing is active and the material had to be issued because of a negative difference. For issues, generally the pricing stored in the item is used.
Inventory valuation date	Valuation date for stocktaking. If corrections are required, these will be posted with this date. Note: At the moment of posting, the date may be in future only if this was allowed in **SAP Business One > Administration > System initialization > Document settings > Allow future posting date**

© 2026 Boyum IT Solutions A/S

	See Difference posting.
Account	Select an account to book the values.
Stock increase / reduction	If to use another than the standard account, enter the account here.
Reference text for correction	The entered reference text will appear in correction bookings.
Comment for correction	The entered notes will be added to correction bookings. Beas place holders are supported eg. <today> for the date, at which the posting was performed
Journal Remark	Content of this field will be copied to SAP Business One document "goods receipt" into field "Journal remark", this information is saved in the journal entry. If this field is empty, then default value will be assigned by SAP Business One automatically.
Start date	Time and date, user who started the stocktaking.
Posting date	Time and date, user who started the last difference posting.
Closed at	Date and user who closed the inventory.
As template Save	This stocktaking will be saved as "Inventory Template".

Buttons	**Description**
Delete	Only visible in case a new inventory was created but counting.
Inventory list	Opens the Inventory list.

Right-click menu

Button	**Meaning**
Window settings	Opens window settings.
Counting list	Opens counting list.
Close	Closes stocktaking.
Open inventory	Re-opens a closed stocktaking, status is reset to "enter count".
Support	Opens support dialog with last error messages.

back to Inventory

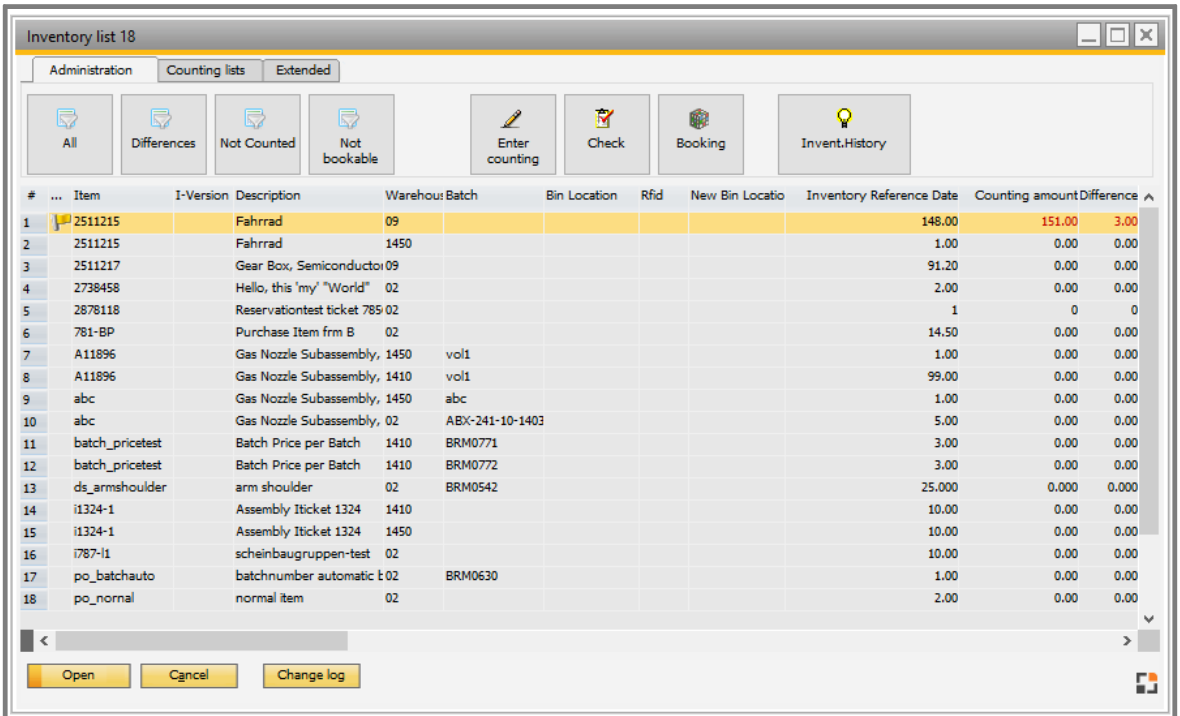
© 2026 Boyum IT Solutions A/S

7.9.4.3.2 Inventory list

The inventory list displays all entries to be counted and provides the current counter reading. It is also the management page for stocktaking.

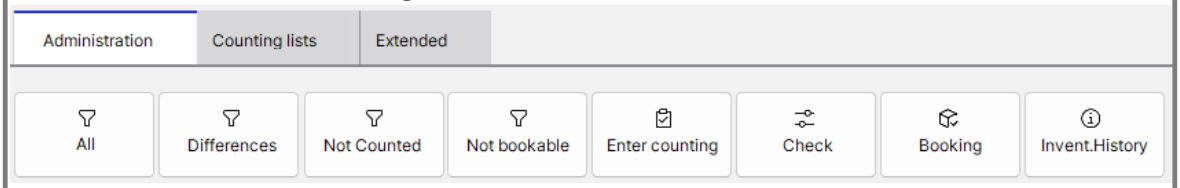
PATH: Inventory > Inventory transactions > Annual inventory count > "Inventory list" button / right-click entry.

Administration tab



Window mw_inventory_items_difference_browse.psr

Button bar in Boyum Style design:



Buttons

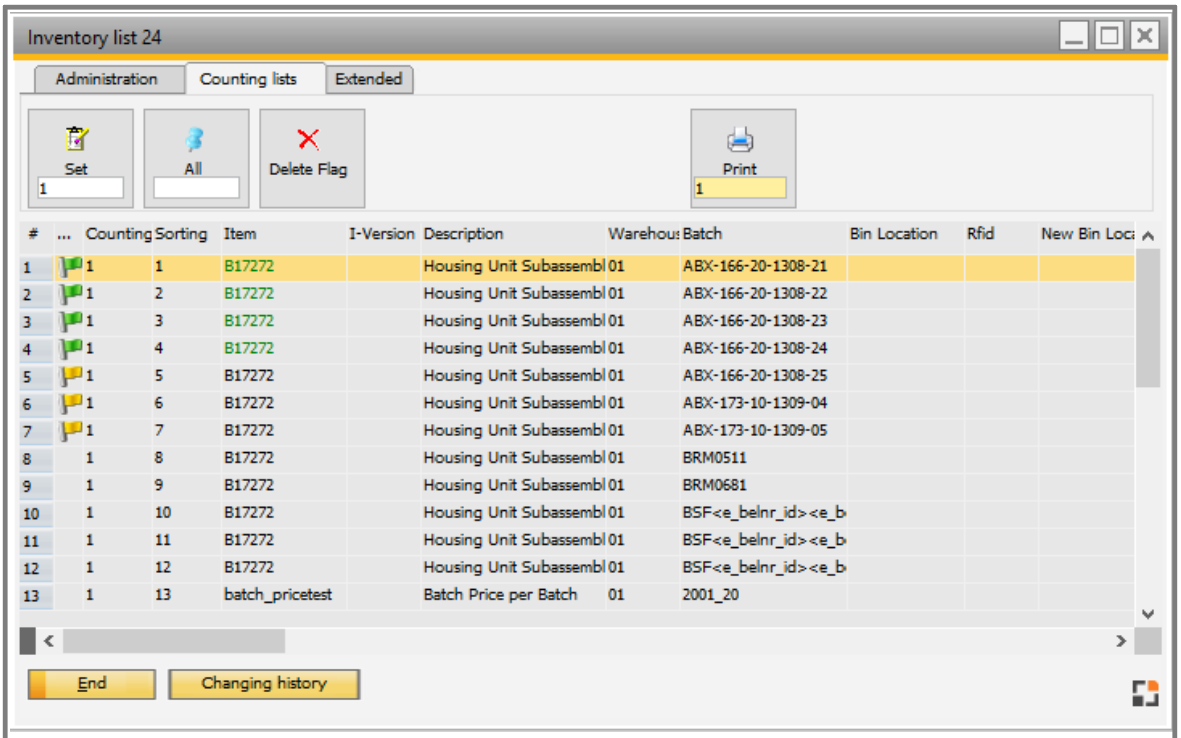
Button	Meaning
All	Filter off, all entries are displayed.
Differences	Filter "only differences" which have been marked as "counted".
Not counted	Filter all entries which are not counted .

© 2026 Boyum IT Solutions A/S

Not bookable	All entries are filtered, which are not bookable according to last check.
Enter counting	Opens list for enter counting to enter counting results.
Check	Check entries (pre-check).
Booking	Book differences.
Inventory history	Call up Inventory history for the selected entry.

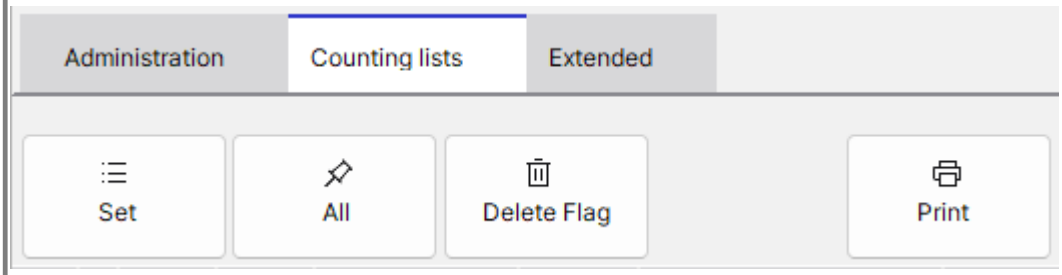
Window settings are available.

Counting lists tab



Window mw_inventory_items_difference_browse.psr

Button bar in Boyum Style design:

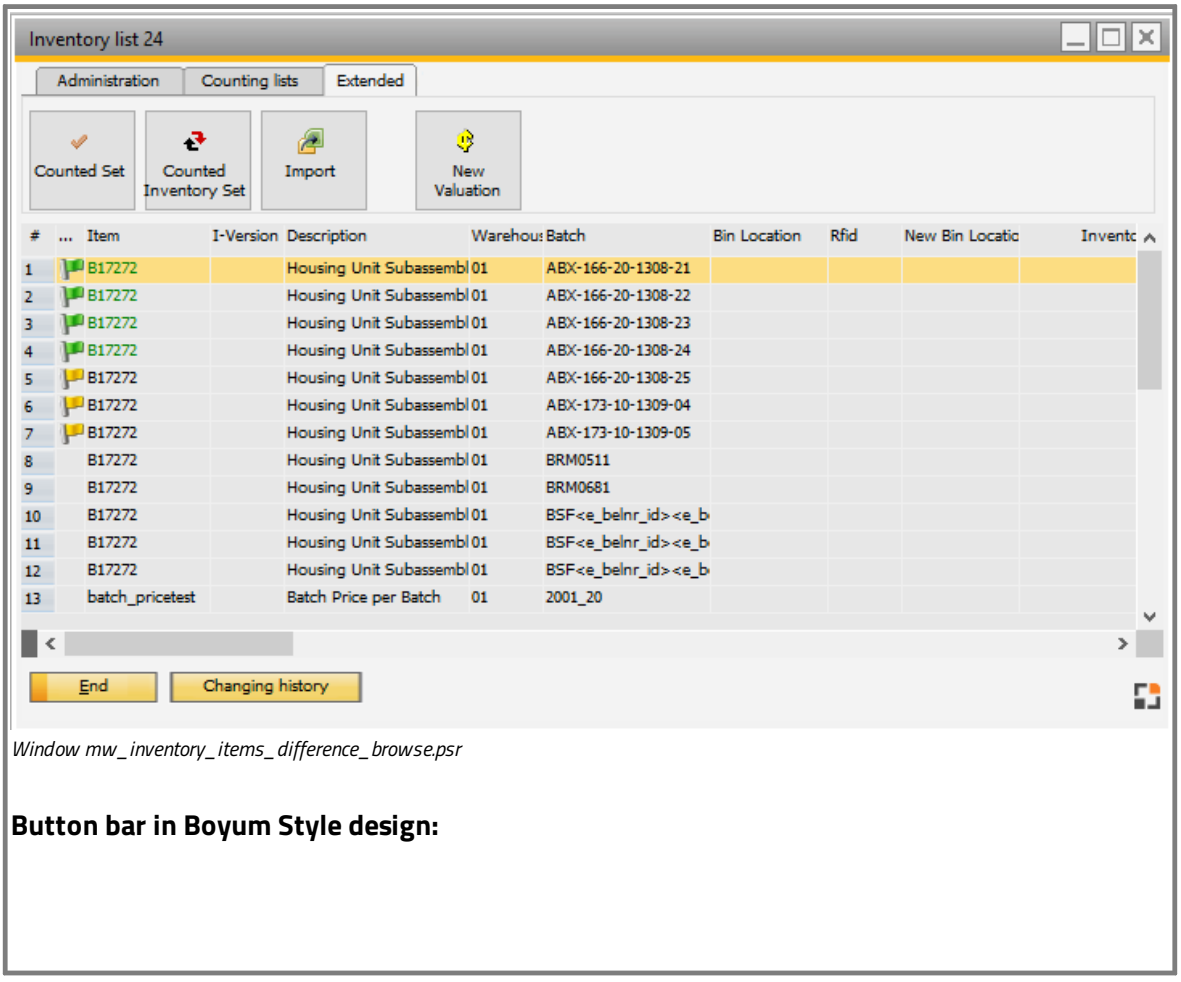


Buttons

© 2026 Boyum IT Solutions A/S

Button	Meaning
Set ...	Several entries can be marked. These are linked to the counting list, which was defined with the button "**Set**" . Entries are sorted by the current order. It is not possible to insert any letters in the button field, only numbers.
All ...	This function distributes visible entries on counting lists. The given number of entries is set to a counting list. Specify the number of entries you want on a count list. ***Example***: 5 entries per count list. Entry 1-5 on count list 1, entry 6-10 on count list 2. Within the counting list, the specified sorting is applied.
Delete flag	All selected entries are deleted. Already booked entries cannot be deleted.
Print	Selected counting list is displayed and can be printed.

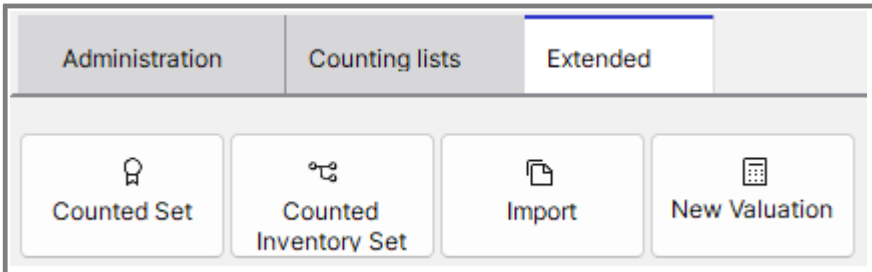
Extended tab



Window mw_inventory_items_difference_browse.psr

Button bar in Boyum Style design:

© 2026 Boyum IT Solutions A/S



Buttons

Button	Meaning
Counted Set	All entries are set to "counted". Differences are posted only if a value was entered or if the switch "Change" was enabled. Selecting "set to counted" the check mark "status changed" is activated for all rows. Use this for example to issue the complete stock. 1. Start stocktaking 2. Set everything to "counted" 3. Book stocktaking
Counted Inventory Set	All counted quantities are set to warehouse stock. With this function, the warehouse stock is used for the column "counted quantity". The columns "warehouse stock" and "counted quantity" are then equal. ***Example***: Only stock deviations are registered. In column "counted" the system stock is entered, the counter corrects then the counted quantity.
Import	Counted values can be imported using a simple text file. New entries are added. ***See*** Import stock.
New valuation	Valuation price is read in new. Read in new valuation prices according to selected pricing. This may be required, if prices are determined and stored only at counting and if they are to be transferred to the counting list.

© 2026 Boyum IT Solutions A/S

Columns

Below the buttons of numerous columns are displayed (configurable via window settings). The columns "count list" and "sorting" must not be moved or set to hidden!
All available fields are now described (view all: Window Settings – Enable all fields).

Columns	Meaning
#	Line number.
...	Line status. Empty = not registered yellow = registered, difference determined and not yet posted green = everything fine: registered and posted, or registered without differences red = Error at posting
Counting list	Number of counting list **Do not hide!** Visible only when switching to Counting list tab.
Sorting	Current sorting **Do not hide!** Visible only when switching to Counting list tab.
Item	Item, If a difference was posted, or if there are no differences displayed in green.
Warehouse	Warehouse code.
Batch	Batch.
Bin location	Bin .
RFID	RFID.
New bin location	New bin after bin correction.
Warehouse stock	Inventory of the selected item at the reference date(start of stocktaking).
Counting amount	Counted quantity.
Difference	Difference.
UoM	Unit of measure.
Status change	Check mark, if status changed, or if bin or counted quantity was changed.
Reserved	Reserved quantity.
Error	Check mark if booking is not possible.
Booked	Check mark if booked.

© 2026 Boyum IT Solutions A/S

Posting error	Description of booking error.
Counter	Name of counter.
Recorder	Name of recorder.
Entry date	Date of entry.
Info	Free text.
Price from entry	Booking price. Note: Only prices > 0 are considered.
Valuation price	Valuation price.
Printing date	Printing date.
Warehouse area	Warehouse area.
Serial ID	ID Number of serial.
Batch attribute	Batch attribute.
Ser. batch number	From SAP Business One-batch number.
Expiration date	Expiration date.
Manufacturing date	Manufacturing date.
Release Date	Date of release.
Bin location	Bin location of first posting of this batch (not the current one).
Details	Details from batch/serial number.
Begin / End of Warranty	Details on warranty from batch/serial number.
Serial	Check mark in case of batch-related item.
Batch	Check mark in case of batch-related item .
Bin location booked	Check mark if bin location has been booked.

back to Annual inventory count

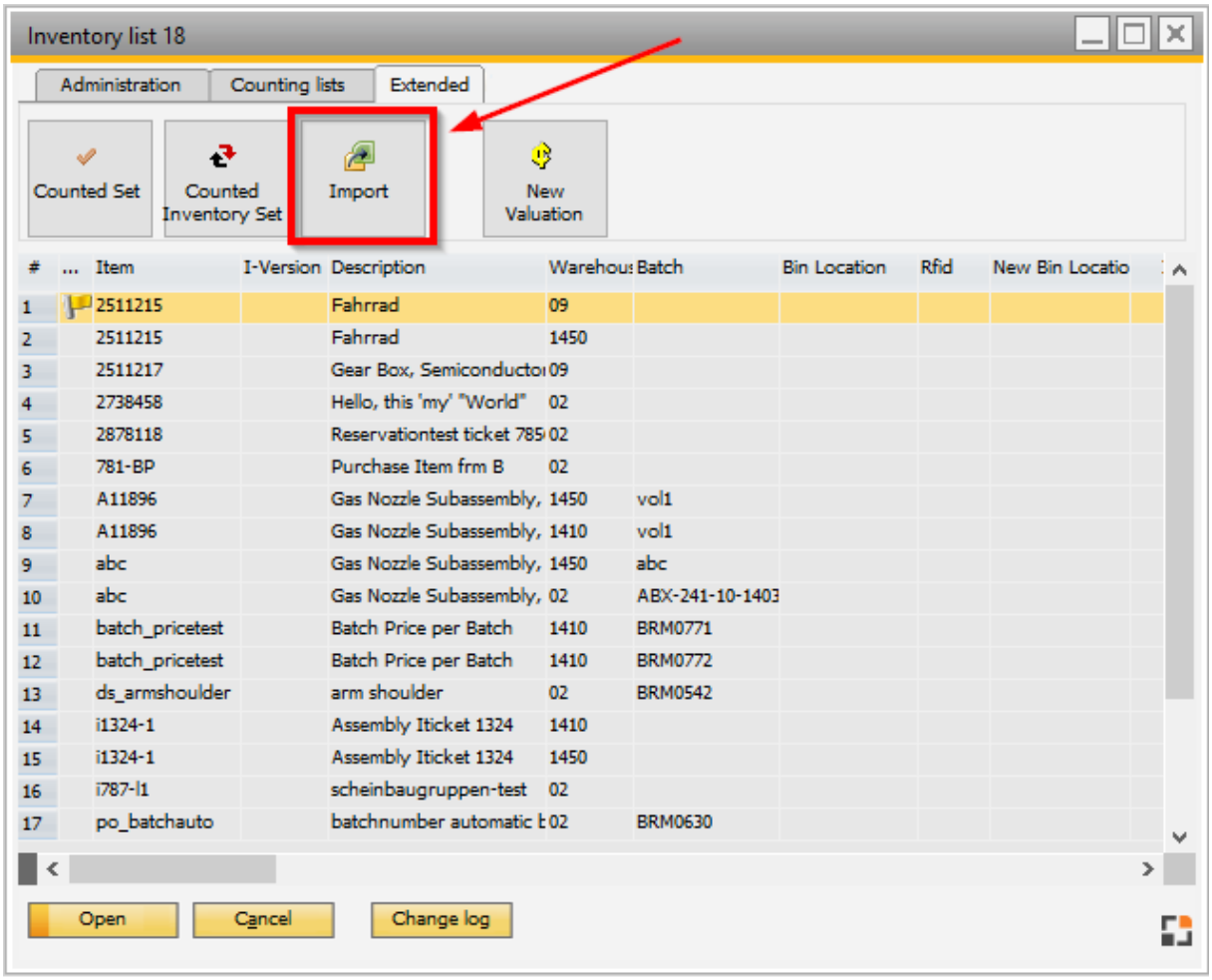
7.9.4.3.2.1 Import inventory

Inventory can be imported with the help of a text file.

After clicking on the **Import** button under **Inventory list > Extended tab**, a warning message pops up where you can confirm the Start of the import.

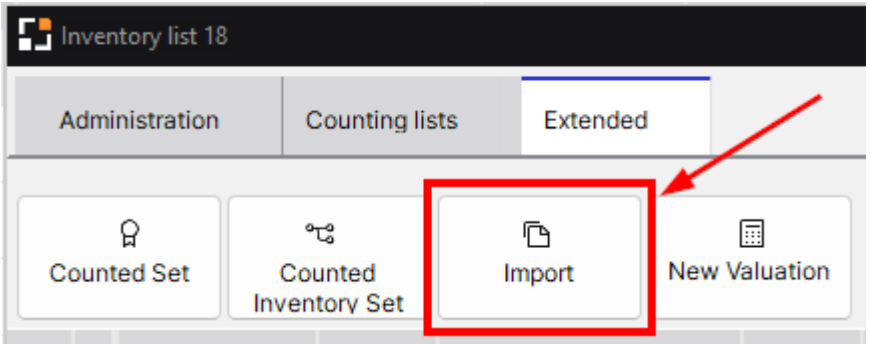
Upon clicking "yes", a browser window opens to select the path for the new import file.

© 2026 Boyum IT Solutions A/S



Window mw_inventory_items_difference_browse.psr

Button bar in Boyum Style design:



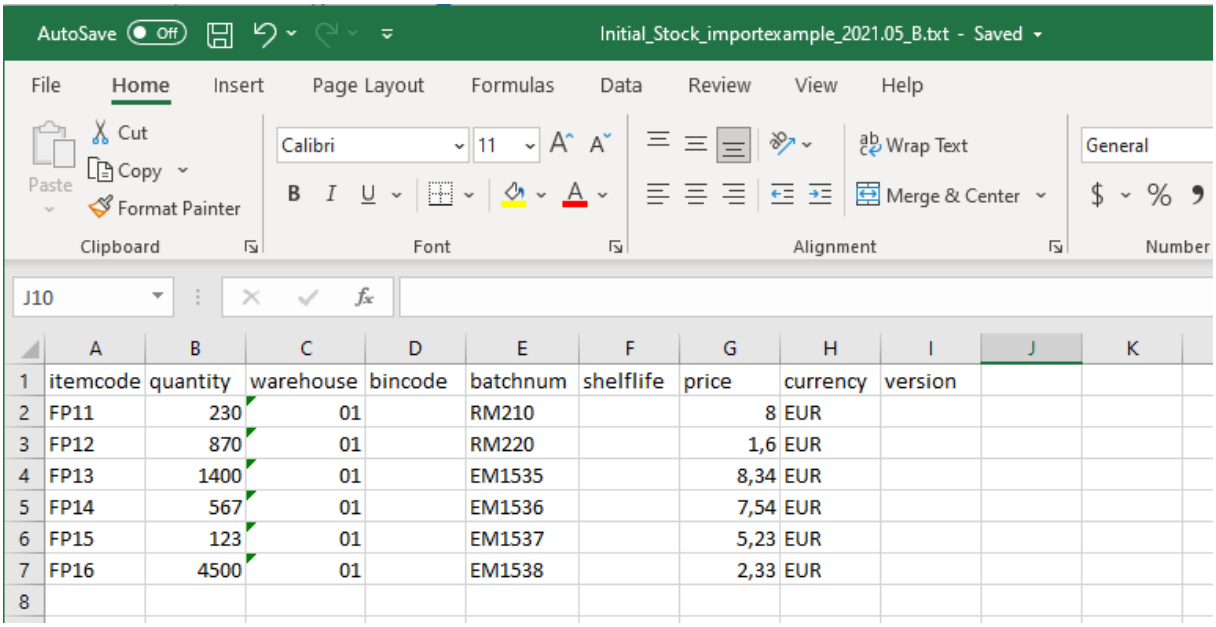
A text file in CSV format (tab-separated) needs to be created with the following structure:

```
Item code, quantity, warehouse, bincode, batch or serial number, shelf life (for batch/serial numbers only), Price, Currency, Version (For items version controlled)
```

Example:

© 2026 Boyum IT Solutions A/S

Enter the information in an Excel sheet and save it as a text file:



	A	B	C	D	E	F	G	H	I	J	K
1	itemcode	quantity	warehouse	bincode	batchnum	shelflife	price	currency	version		
2	FP11	230	01		RM210		8	EUR			
3	FP12	870	01		RM220		1,6	EUR			
4	FP13	1400	01		EM1535		8,34	EUR			
5	FP14	567	01		EM1536		7,54	EUR			
6	FP15	123	01		EM1537		5,23	EUR			
7	FP16	4500	01		EM1538		2,33	EUR			
8											

Separator: Tab (Char 9)

Date format in yyyy / mm / dd , e.g. 2008/12/31 or in the format of the Windows regional settings.
Numbers in the format of the Windows regional settings.

All values need to be entered. If a value does not exist, leave the field empty. Enter no title.

- Example with (item number, quantity and storage location only):

```
100004[TAB]1,4[TAB]001[TAB][TAB][TAB]
100005[TAB]1,5[TAB]002[TAB][TAB][TAB]
```

Field	Meaning
Item number	Item number to register. Item must exist in the system.
Quantity	Counting amount in Inventory UoM without thousands marker. As decimal separator the character according to windows-system setting is required. ***Example***: German regional settings: 25,5 ***Example***: American regional settings: 25.5 For serial number related items: only the amount of 1 is allowed.
Warehouse	Target warehouse; needs to be deposited in the item.
Bin location	For warehouse with bin locations, enter bin code.
Batch	For batch-related items: batch number. For serial number related items: serial number Use DistNumber (visible batch number), not internal system number.

© 2026 Boyum IT Solutions A/S

Shelf Life	Optional entry of expiration date. Use format of windows regional settings or in format yyyy/mm/dd ***Example:*** 2018/04/03
Price	Optional. Format see quantity. **NOTE:** Only prices > 0 are taken into account.
Currency	Currency for price.
Version	Item Version of the Item. (System does not validate if the assigned version exists for selected item)

Import entries are then checked immediately by the pre-check and incorrect entries are marked as not bookable.

back to Inventory Opening Balance

7.9.4.3.2.2 Difference posting and pre-check

After recording counted stock or initial stock (initial stocktaking) a Pre-check is performed followed by the Posting of differences.

Pre-check

Before differences (or initial stock values) are posted data is checked for accuracy. A check is also performed after an import or if clicking in "check" in annual inventory count. Entries which did not pass the check are marked, the error description is displayed under "error info".

- The following is checked

Item deleted	Item was marked in SAP Business One as deleted.
Item blocked	Item is blocked. Posting not possible.
Warehouse (Item) not found	Warehouse is not existing or is not deposited in the item.
Warehouse blocked	Warehouse is blocked. Posting not possible.
Bin location not found	The given bin location does not exist.
Entry: not unique	Entry is not unique.
Batch: not unique	Batch is not unique.
Negative quantity	Negative quantities are not supported by Beas
Price missing	If a posting is necessary because the counted stock is larger than the system stock, and no price could be determined, an

© 2026 Boyum IT Solutions A/S

	error message is issued and Beas prompts a price to be entered. If no posting is necessary because the counted stock is less than / equal to the system stock, a missing price does not trigger an error message.

Posting differences

The difference between system stock and counted stock is posted. For regular inventory (Cycle Count Recommendations) or annual inventory count the system stock represents the stock at the moment the inventory was started. After manual (handwritten) registration of counted stock, normal work can continue, even if the accounting of differences was not performed (for example early release of storage areas is possible)

Only the following entries are posted

- If not marked as incorrect by Pre-check
- Status "Modified" activated
- If not marked as "posted"

Note:

- As valuation date, the date set up in Inventory is applied. At the moment of posting, the date may be in future only if this was allowed in **SAP Business One > Administration > System initialization > Document settings > Allow future posting date.**

- SAP or WMS Bin managed warehouses are not supported.

SAP stock posting disabled

Beas uses for posting the SAP B1 function
- "Goods receipt"
- "Goods issue"

The system cannot use the SAP Inventory counting function.

First, difference receipt, then difference issues are posted. If continuous stocktaking is enabled, the stored price cannot be used when reducing stock, because issues are always performed using the standard valuation method of the item.

Grouping in posting document: counted numbers are grouped in the posting document by

© 2026 Boyum IT Solutions A/S

- Item
- Warehouse
- Price

If several batches of an item can be found in a warehouse, only one document line is created, and the batch stock correction is deposited behind the document line. If one of the batch entries has a different price, a new document line is created. The same applies for bin locations and serial numbers. Thus, the number of transactions is reduced significantly, and the creation of documents is optimized.

The system creates receipt/issue documents with max. 500 document lines.
In case of an item in the same warehouse with same price and same batch number, the system creates only one line. The system creates a new line only if one of the parameters is different.
Why: The increased number of lines can cause instability in the SAP DI-API.
If the system cannot create the receipt with 500 lines, it tries with 50, then 2 and then 1. In this case you can find out, which item produces a problem.

Note:
With an increased number of entries, the process may take long.

In SAP Business One there is a limitation of 10000 Lines.

Note on mass postings

When posting large amounts of data it can be expected that the posting may take a long time. The PC must have enough memory. With more than 15,000 stock registrations, a 64-bit operating system with at least 4 GB of main memory is recommended.
If the posting process takes too long due to many posting errors or large amounts of data, it may happen that the SAP Business One interface cancels the connection to Beas (timeout). In this case, the application must be re-started. The posting can be started again at any time. Already posted entries are not posted again.

back to Inventory Opening Balance

7.9.4.3.3 Inventory template

For recurring stocktaking templates can be saved. (edit inventory – save as template). Templates are managed here.

Field	Meaning

© 2026 Boyum IT Solutions A/S

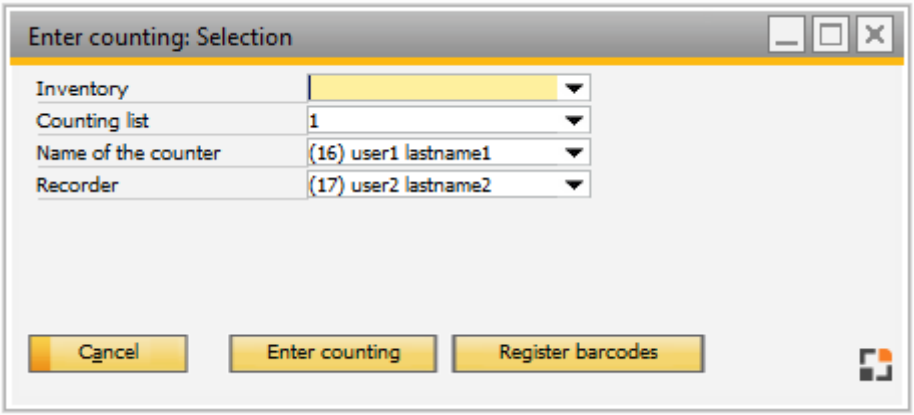
End	Window is closed.
Use	The selected template is used for new inventory. The inventory editing window opens. ***See*** Edit inventory.
New	Opens a new inventory without a template.

back to Annual inventory count

7.9.4.4 Enter counting: selection

Selection window for counting lists entry. Via "Enter counting" inventory can be registered in a list. The entries are saved immediately, making possible a simultaneous registration by several employees. Next to stock other values as batch information or bin corrections can be registered. The count list is dynamically adjustable and supports templates. Depending on the kind of inventory, counting entry can be adjusted, for example "only counted" what means that the switch "counted"is activated, but no stock is entered.

PATH: Inventory > Inventory transactions > Enter counting: selection.



Window mw_inventory_counting_choose.psr

Call up via Annual inventory, via Cycle Count Recommendations or via menu item "enter counting", it can also be included in the terminal screen. A reading access on inventory is required. When called up via the menu item "enter counting", the active inventory, the counter, typist and the count list need to be specified. If no count lists are defined, leave the "1".

If called directly from inventory, as user the person currently logged in will be used. All counting lists are displayed.

Button

Button	Meaning

© 2026 Boyum IT Solutions A/S

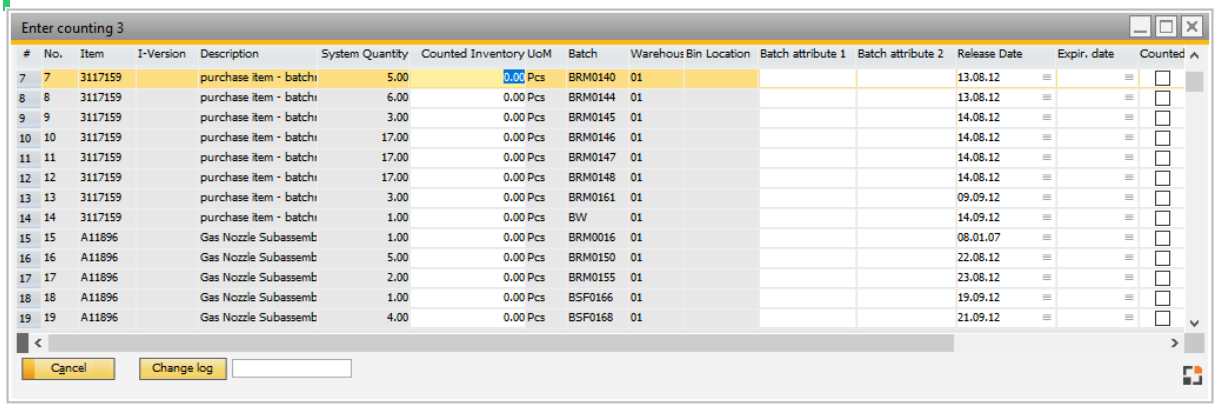
Enter counting	Open Counting list.
Register barcodes	Open Bar code registration.

back to inventory.

7.9.4.4.1 List for enter counting

In this window you can enter counting and related information for inventory.

PATH: Inventory > Inventory transactions > Enter counting: selection > **Enter counting** button.



Window mw_inventory_counting_browse.psr

Field	Meaning
Counting list	Counting list number.
Sorting	Continuous number within the counting list.
Item	Item number.
Batch	Batch number
Description	Item description.
Warehouse inventory	Inventory deposited in system.
Counted inventory	Enter the currently counted stock.
UoM	Inventory unit of measure.
Batch	Batch number.
Warehouse	Warehouse of the item.
Bin location	Bin location of the item.
New bin	New bin location: entry for Bin location correction.

© 2026 Boyum IT Solutions A/S

Batch Attribute 1-2	Batch attributes
Counted	Set check mark, to mark as counted. If Inventory quantity is entered, this check mark is automatically set as active.

Window settings and templates are supported.

Button

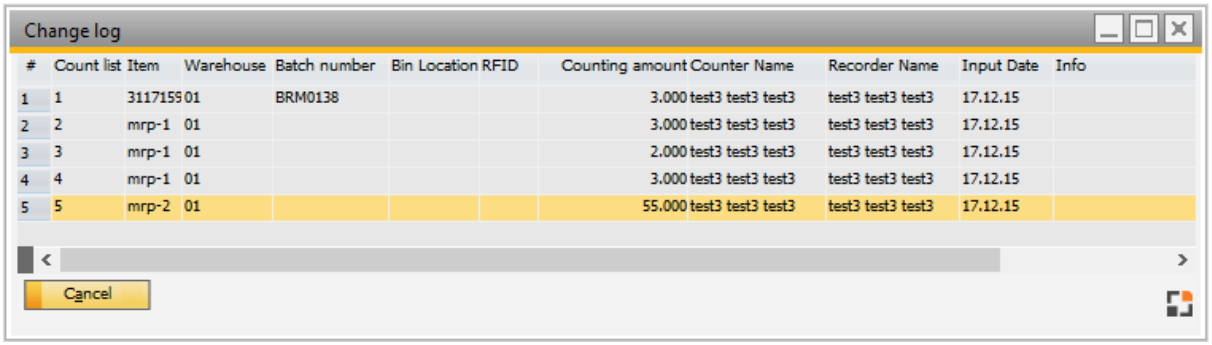
Change log.

back to Enter counting.

7.9.4.4.1.1 Inventory Change log

All changes made during the inventory are logged here. All standard filter functions are supported.

PATH: Inventory > Inventory transactions > Annual inventory count > **Inventory list** button > **Change Log** button.



Window mw_inventory_history_browse.psr

Column	Meaning
Item	Item.
Warehouse	Warehouse.
Batch number	Batch number.
Serial number	Serial number.
Bin location	Bin location.
RFID	RFID.
Counting amount	Counted quantity.
Counter Name	Name of counter.

© 2026 Boyum IT Solutions A/S

Recorder Name	Name of recorder.
Input Date	Registered (date).
Info	Free text.
Inventory price	Inventory price.

back to enter counting

7.9.4.4.1.2 Bin location correction

If the stock of an item is correct, but the item is on the wrong bin location, this can be corrected here. To enable this feature, in list for counting entry the column "new bin" needs to be activated (***see*** window settings). Now the correct bin location can be entered or selected using the right mouse button. The entry is then marked as "counted". If previously no count had been entered, it is set to the system stock.

Posting process: if a difference exists between system stock and counted stock on the given bin location, it is booked. If the difference is correct, or if there have been no differences, the transfer to the specified bin location is performed. This bin location transfer is displayed in the item movement protocol and has the inventory number as document number and the reference text of the inventory. During this transfer process, no SAP document is created.
If the transfer was carried out correctly, the current bin location is displayed in green. This is considered as a mark that a bin correction has taken place.

Valuation
Posting-in, material is valued according to inventory settings. Only prices >0 are considered.
See

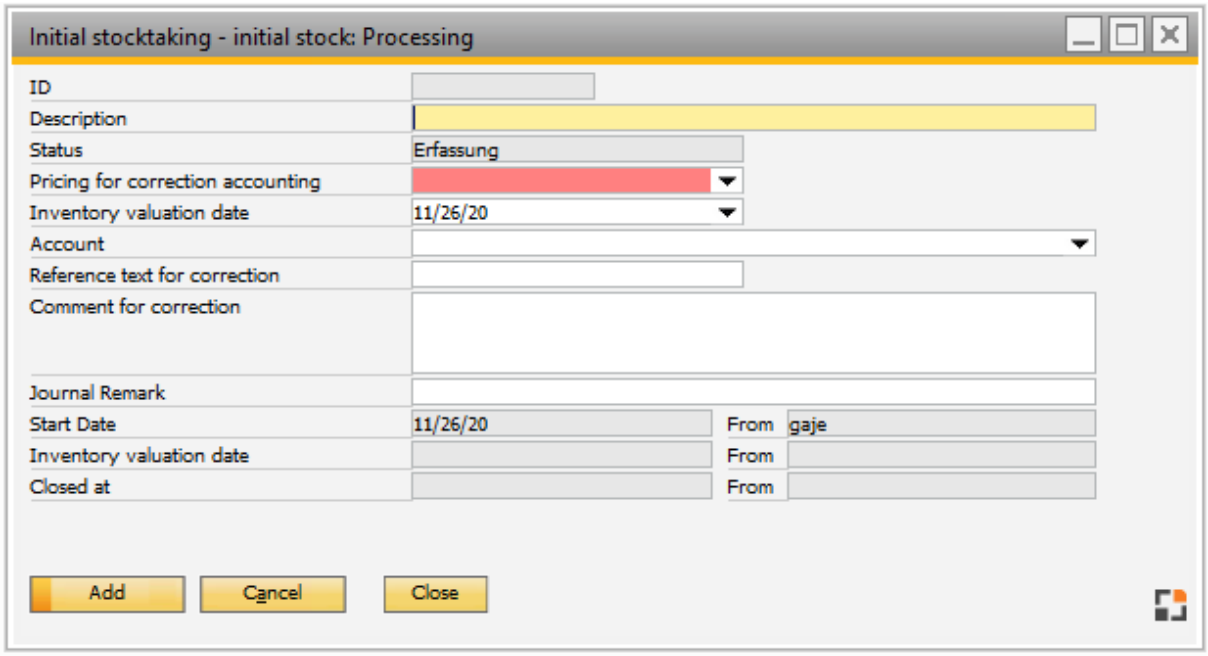
Edit inventory
back to enter counting

7.9.4.4.1.3 Initial stock taking

Window for manual stock entry. Specific entry fields are made available depending on item and warehouse type. Mandatory fields are displayed in red.

PATH: Inventory > Inventory transactions > Inventory Opening Balance > **Open** an entry

© 2026 Boyum IT Solutions A/S



Window mw_inventory_header_stocktaking.psr

Field	Meaning
ID	Stocktaking ID. (continuous number through all kinds of stocktaking).
Description	Description.
Status	Status of inventory: registration, booked, closed.
Pricing for correction posting	Pricing, which is used for difference posting.
Inventory valuation date	Valuation date for this stocktaking. If correction postings are necessary, they will be done by this date.
Account for posting in and issue	If to use another than the standard account, enter the account here.
Correction reference	The entered reference text will appear in correction bookings.
Comment on correction	The entered notes will be added to correction bookings. Beas-place holders are supported e.g. <today> for the date, at which the posting was performed.
Remark	Free text
Start date	Time and date, user who started the stocktaking.

© 2026 Boyum IT Solutions A/S

Inventory valuation date	Time and date, user who started the last difference posting.
Closed at	Date and user who closed the inventory.

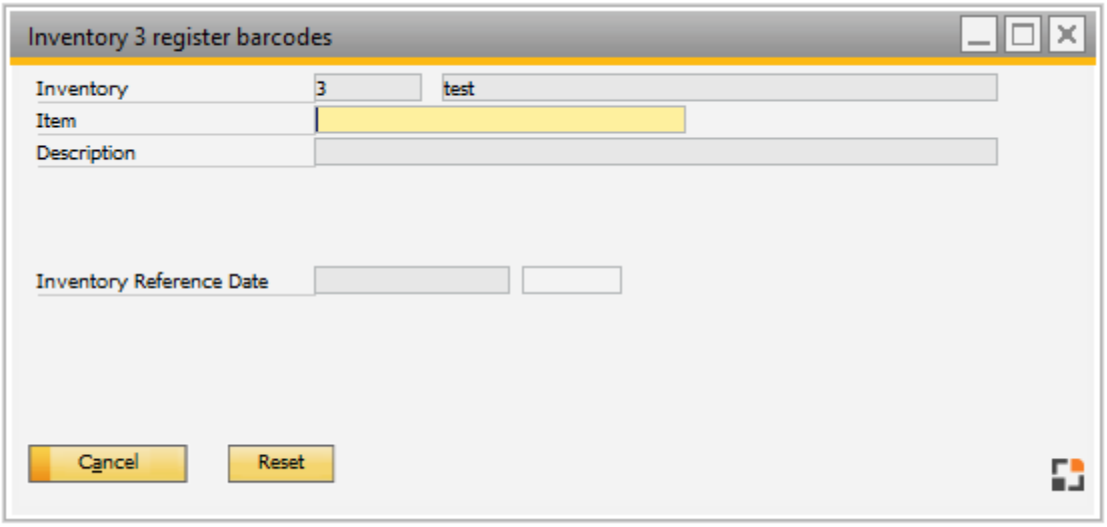
back to Initial stock

7.9.4.4.2 Enter barcodes

Quick entry screen optimized for bar code readers.

PATH: Inventory > Inventory transactions > Enter counting: selection > **Register bar codes** button.

Data is registered directly, fields released successively. First the item, then batch/serial number, followed by warehouse, bin and quantity. After the quantity has been registered, it is transferred to the counting list, and the screen is closed again.
If the item is not part of the counting list, it will be added. Counting lists are not considered, and the complete inventory is checked.



Window mw_inventory_counting_scan.psr

Field	Meaning
Inventory	Inventory ID.
Item	Enter the Item Code.
Description	Item description.
Batch / Serial Number	Insert the Serial or Batch Number. Only visible if the item is a serial- or batch-managed item.

© 2026 Boyum IT Solutions A/S

	If you insert a non-existing Batch number, the system generate one automatically.
Warehouse	Insert Warehouse information. All warehouses are allowed. Warehouse selection from inventory start is not considered. **Attention:** SAP Bin Management and WMS Bin Management are not supported.
Bin Location	Insert the Bin Location Only visible if the selected Warehouse is a Beas bin managed warehouse.
Inventory reference date	Stock of the last reference date is displayed.
Counting amount	Enter the total amount. If you inserted the amount before, you can see the old number. You can replace this with the total number. ***Example***: There is a batch in two different locations in the same warehouse (no bin management). Location 1: 10 Pcs, Location 2: 15 Pcs --> Insert 25 Pcs.

back to enter counting

7.9.5 Batch calculation (precalculation)

Batch calculation (precalculation)

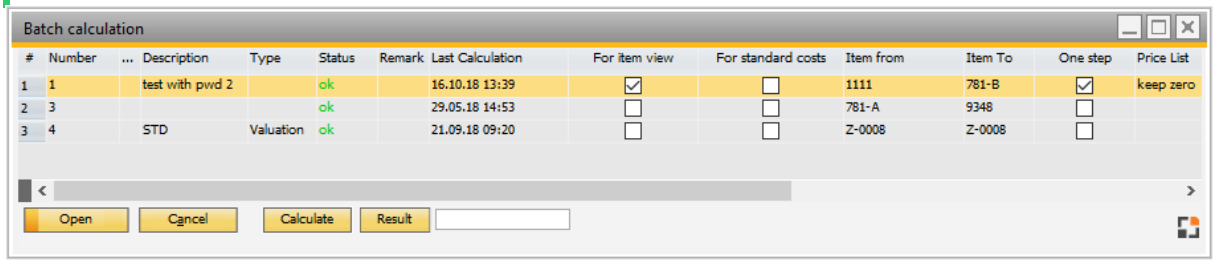
- Batch calculation overview
  - Edit Batch calculation
    - Selection tab
    - In-house production
    - Purchased items
    - Extended tab

With batch calculation, price lists can be calculated and used as a basis for standard cost method or price valuation. The detailed results are stored and archived. Several calculation scenarios can be created, whereas only one scenario is used for price valuation or standard cost method. In the **item**

© 2026 Boyum IT Solutions A/S

master > Calculation tab the result of a batch calculation for specific item can be displayed in details or as a histogram or list.

PATH: Inventory > Inventory transactions > Batch calculation.

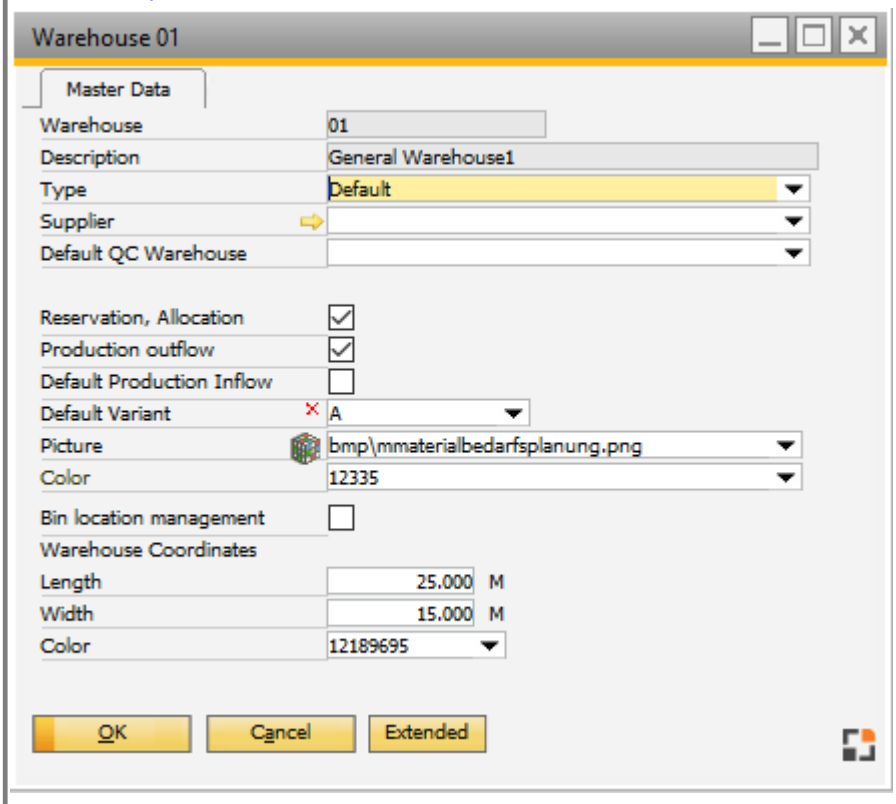


Window pk_batchkalk_browse.psr

Important Notes

Short Variants

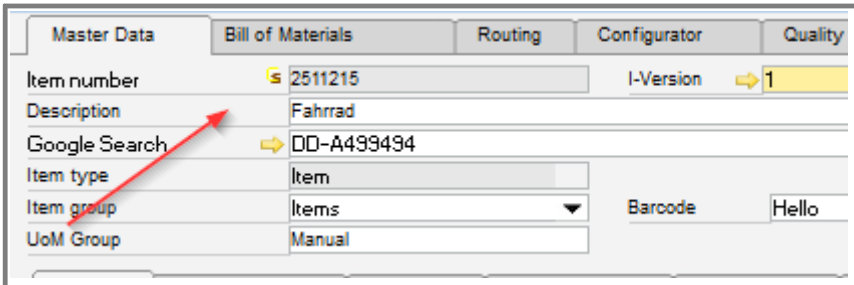
For item variants, items with value "A" are used. If Default Variant defined in Warehouse and calculation per warehouse is used, it uses the Variant defined in the warehouse.



Formulas, Formula, Variant Script

In item Master Data you can define additional script, in Bill of Materials and Routing position you can link formulas and tables via click on yellow "C".

© 2026 Boyum IT Solutions A/S



The Batch calculation does not support this and ignores all related settings and definitions.

Item Version

Batch calculation supports Item Version and always uses the Version, which is defined in the Item Master Data - I-Version field.

Schema script

In the calculation schema you can define your own scripts.
Only fields relevant for the calculation are filled:
That means drawing number, designation additional identifier and other fields are not filled.
All fields will only be visible if you activate "Precalculation save" in **Batch calculation > Master Data > Extended**, but the calculation time takes time and produces a lot of data.

Exchange rates

The system checks if exchange rates are defined. If calculation is running over midnight and the exchange rate is not defined for the next day, the system takes the last defined exchange rate.

The batch calculation can be performed automatically e.g. weekly, overnight by using the Beasserver. ***see*** Beas Manage Server.

The calculation settings stored in **Configuration Wizard > Calculation > Precalculation** are used for the calculation.
The batch calculation uses the calculation lot sizes in Inventory UoM.

see

Batch calculation overview

Edit batch calculation

7.9.5.1 Batch calculation overview

Batch calculation (precalculation)

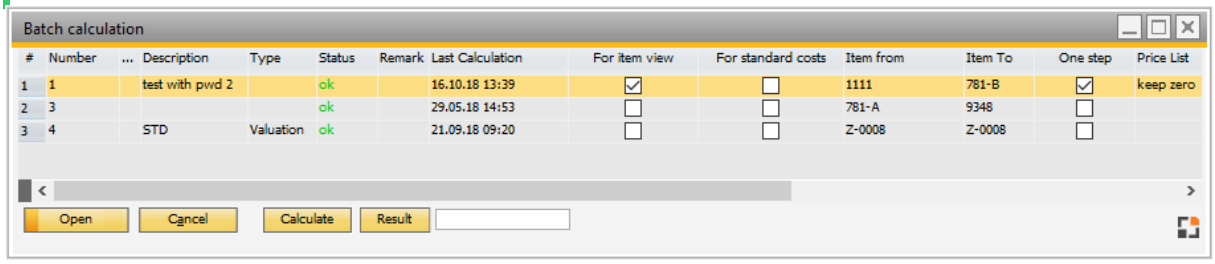
Batch calculation overview

© 2026 Boyum IT Solutions A/S

Edit Batch calculation
Selection tab
In-house production
Purchased items
Extended tab

All batch calculations are displayed in this overview list.
Window settings are supported, the authorization Batch Precalculation is required.

PATH: Inventory > Inventory transactions > Batch calculation.



Window pk_batchkalk_browse.psr

Column	Meaning
Number	Unique number of batch calculation definition.
...	Icon: a red stop sign with a hand means, there were errors in the last calculation, a protocol entry was created.
Description	Description of the calculation.
Type	Type of calculation.
Status	Display status of current calculation process Current Status: **Red**, if calculation is performed at the moment. The currently calculated **item** is displayed, **OK** if the calculation was completed, **Cancel** if it was aborted **Possible errors:** For further analysis the batch-calculation should not be started as service. Please disable the option in Batch-calculation - Edit and restart the process. Before, the status needs to be reset via right-click.

© 2026 Boyum IT Solutions A/S

	<table><tr><td>DI-API-Error</td><td>Problems with the initialization of Data-API Beas requires DI-API to enter prices. The SAP Business One user logs on, who was entered in **Configuration wizard > System**. In this error case the DI-API could not be initialized due a wrong password, missing authorizations of the user or for other reasons Measures: Check error log (***see*** Protocol) Batch-calculation - activate "not as service"and re-start. View "last messages"</td></tr></table>
Remark	Free text.
Last calculation	Date of the last calculation.
For item view	If active, the result if this calculation is displayed in item master - calculation.
For standard costs	If active, this batch calculation is used for valuation of standard costs.
Item from	Considered items.
Item to	Considered items.
One step	When enabled, only the first level of the calculation is computed. Sub-assemblies are not broken down, phantom assemblies are broken down.
Price list	If active, results are transferred to price list.
Calculation price	Calculation price is filled and will be displayed in **item master > calculation > calculation price** .
Schema	Name of calculation schema.
Purchase parts	Check mark if purchase parts are also calculated.
Schema purchase parts	Calculation schema for purchase parts.
Automatically	ID for automatic calculation.
Material group	Material group of the item to be calculated.
Templatefield 1–6	templatefields.

© 2026 Boyum IT Solutions A/S

As in work order structure view, there a red icon is displayed in case of a protocol entry.

Functions

Function	Description
Open	Open the selected calculation for editing.
Add	Create a new calculation.
Remove	Delete the selected calculation.
Result	Display results of the calculation.
Calculate	Start the calculation. If started "as service" it runs in the background. Depending on the PC's performance, you can continue to work normally. Use "**Cancel**" to terminate the process. **Note:** Background execution does not support "Windows authentication" login mode. Use standard login to Beas for background operations. During the process of calculation, in case of an error or cancellation, the calculation cannot be restarted. Use **right-click – reset status**. **Authorization:** The right Run batch calculation is required. If the authorization is missing, the button is hidden.
Cancel	Only displayed while calculation is running, use to cancel computation, no matter on which PC it is running.
Status Reset	Reset calculation status. During the process of calculation, in case of an error or cancellation, the calculation cannot be restarted. Function available in the right-click menu.
Error log	View error log. If errors have been found during the calculation, an error icon will be displayed in the list. This function opens the Error log to view and confirm the errors.

back to Batch calculation introduction

© 2026 Boyum IT Solutions A/S

7.9.5.1.1 Edit Batch calculation

Batch calculation (precalculation)

Batch calculation overview

Edit Batch calculation

Selection tab

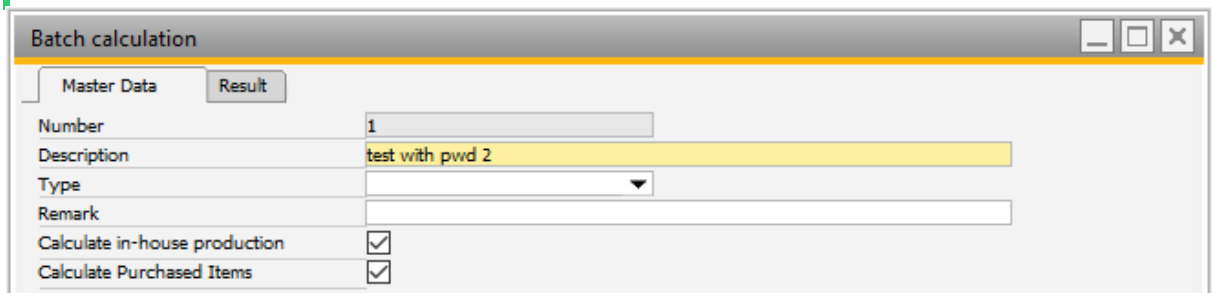
In-house production

Purchased items

Extended tab

Editing window for batch calculation. All settings are found in the Master data tab. Results are provided in the results tab.

PATH: Inventory > Inventory transactions > Batch calculation > double-click/**Open** an entry in the list.



Window: pk_batchkalk_edit

Field	Description
Number	Unique number of the batch calculation definition.
Description	Description of the batch calculation.
Type	Type of calculation. **Valuation**: calculated values are used for further valuation, for example in **Production > Post-calculation > Standard price** or for item price revaluation. Note: if the option "to standard costs" is active, the option "type=valuation" is mandatory. **Simulation**: Only calculation without using results further.
Remark	Comments on this calculation.
Calculate in-house production	If active, the tab "In-house production" is displayed, and items to be produced in-house are calculated. Tab is only visible if it is allowed to

© 2026 Boyum IT Solutions A/S

	calculate purchased items. ***See* Configuration wizard > Calculation > Precalculation > Calculation of purchased items.** Check box can only be deactivated if purchased items are calculated.
Calculate purchased items	If active, the tab "Purchased items" is displayed and the item to be purchased is also calculated.

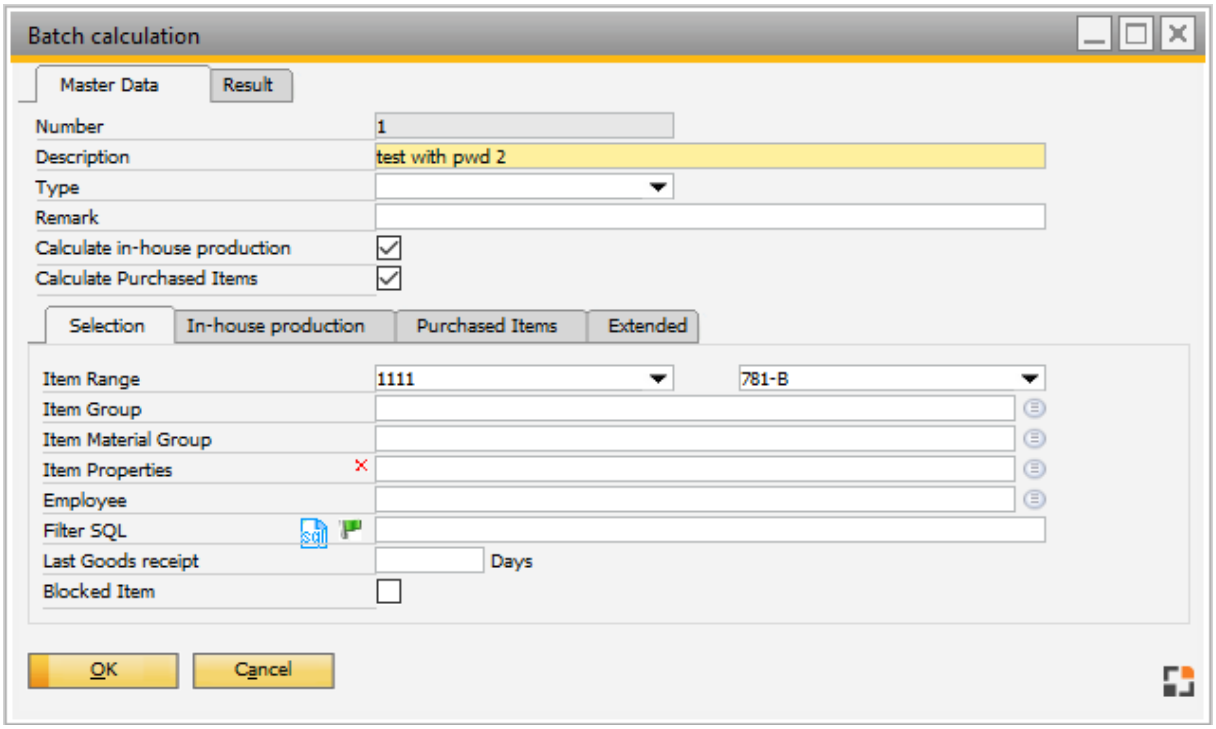
Change Log: right-click to access the Change log of batch calculations.

back to overview batch calculations

7.9.5.1.1.1 Selection tab

Batch calculation (precalculation)
Batch calculation overview
Edit Batch calculation
Selection tab
In-house production
Purchased items
Extended tab

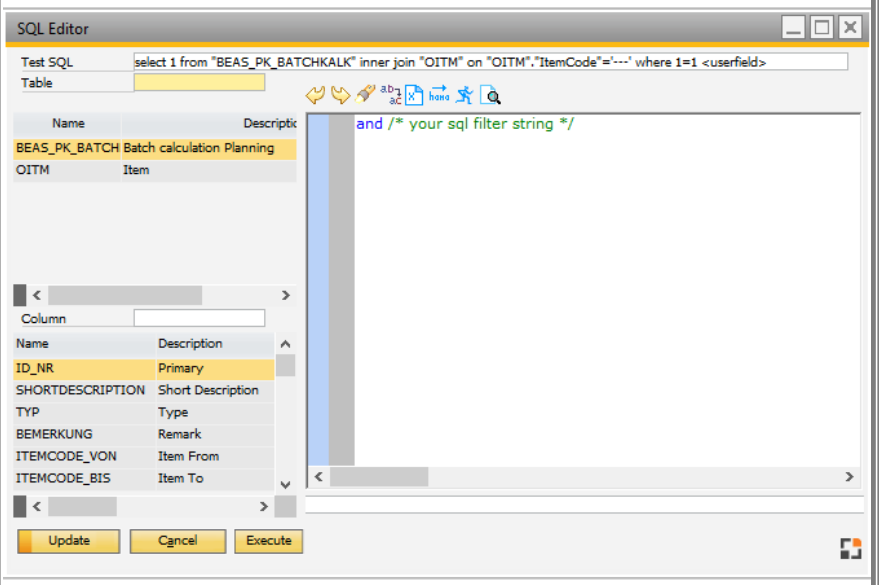
Selection tab



© 2026 Boyum IT Solutions A/S

Window: pk_batchkalk_edit

Field	Description
Item Range	Item range to be calculated (item numbers from–to).
Item Group	Item groups to be calculated.
Material group	Material groups to be calculated.
Item properties	☐ Only the items with the selected item properties are calculated. If these are not selected, this setting is ignored. You can use an OR or AND connector to specify which items should be considered with which item properties.
Employee	Consideration item only from the employee chosen here.

Filter SQL	☐ Own conditions; define via SQL.
	An own SQL statement can be stored here, with which the containment can be executed.
	
	Click on the SQL Icon left of field to define the SQL Filter.
	 
	Window sys_sqleditor_inserted
	
	Here you can define the SQL statement after "WHERE"
	
	`select "OITM"."ItemCode" from "OITM"`
	`where /* all other filter */ /* your filter */`
	
	Available tables: BEAS_PK_BATCHCALC and Item Table "OITM"

© 2026 Boyum IT Solutions A/S

	Example: Only all items which begin with "A". `and substring("ItemCode",1,1)='A'` If a faulty SQL statement is entered, a red flag is displayed. If it is correct, a green flag is displayed.
Last goods receipt	All items delivered in the last x days If a value is entered here, only the items posted in the previous days (not working days) will be considered via purchase – goods receipt. Use this for revaluation of purchase parts. Note: If this restriction is not to be considered, the value of this field has to be deleted completely.
Blocked items	If enabled, blocked items are included to the calculation. Default: inactive. All items that are marked as "inactive" in the Item master data and belong to the Item range are considered by this setting. **IMPORTANT:** The blocked sub-assembly of an item is **not** included in the calculation!

Note: Deleted items `(OITM.Deleted='N')` and items of other type than "item" `(OITM.ItemType='I')` are generally not included into the calculation.

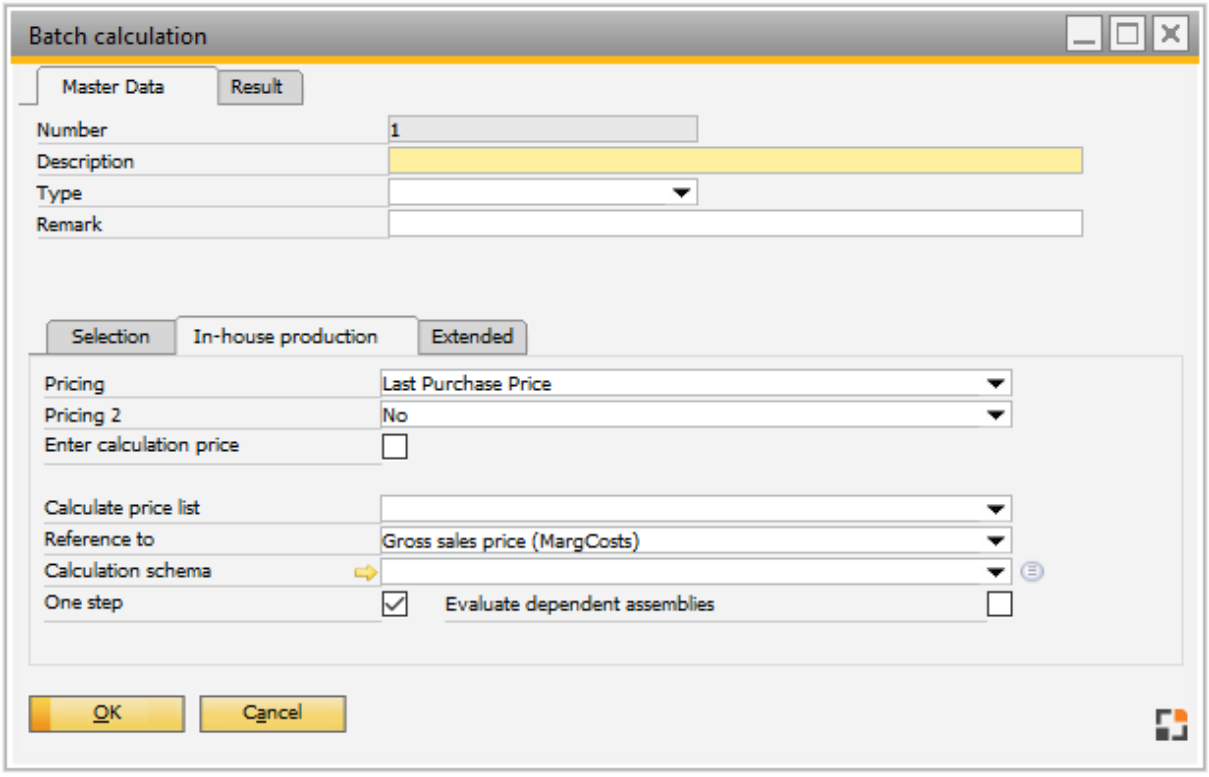
back to overview batch calculations

7.9.5.1.1.2 In-house production

Batch calculation (precalculation)
Batch calculation overview
Edit Batch calculation
Selection tab
In-house production
Purchased items
Extended tab

In-house production tab

© 2026 Boyum IT Solutions A/S



Window: pk_batchkalk_edit

Field	Description
Calculate In-house Production	Should parts produced in-house be calculated? Activated by default. *Field: eigenteil (J =on - standard, N=off)*
Pricing	Pricing for calculation If this field is not filled, standard settings will be used. ***See*** Precalculation - Material - Purchase price. Configuration wizard - Calculation - Precalculation - Pricing.
Pricing 2	Second pricing if no price could be determined with the first one
Enter calculation price	Should the calculation price stored in the item master data be entered? If so, you can specify the price in the following field. This field is visible only if "per warehouse" was not enabled. ***See*** Item - Calculation - Calculation price.
Includes price for	Specifies the value of the calculation price to be entered. This field is visible only if "fill calculated price" was enabled. ***See*** Item - Calculation - Calculation price.

© 2026 Boyum IT Solutions A/S

Calculate price list	Specify whether a price list should be filled. If a price list was selected, you can specify the price that should be entered in the following field. This field is visible only if "per warehouse" was not enabled. Note: Saving the price list is very time-consuming. If Beas finds a Beas-Common-Service running, the price list update is moved to that service. Therefore, the Precalculation can be completed faster.
Reference to	Specifies the price that should be entered in the price list. At single level calculation this price is used for "material price determination" for the upper assembly. ***See*** single step.
Calculation schema	You can select a calculation schema to be used to perform the calculation. ***See*** Calculation schema.
One step	When enabled, only the first level of the calculation is calculated. Sub-assemblies are not broken down but calculated as purchase parts; phantom assemblies are broken down. Depending on the switch "**value depending assemblies**" (see below) sub-assemblies are always valued first. Example Calculation item area A-C. Assembly A contains a sub-assembly B which again includes a sub-assembly C. First the assembly C is calculated, then B and A as last. The sub-assembly is valued with the value indicated in "**Price list" - "with reference to**". If the sub-assembly was not valued before, the price according to "pricing" is used. Example

© 2026 Boyum IT Solutions A/S

	Calculation item area A-B "**value depending assemblies**" disabled. Assembly A contains a sub-assembly B which again includes a sub-assembly C. First, assembly B is calculated, C is valued according to "pricing" like material. Assembly A is calculated as last, for valuation of B the calculation result is used - according to the setting "with reference to". Note: If you use "One Step", the result can be different than when the option is disabled. Reason: if you work with one step, the system calculates the sub-assembly with all costs from the calculation schema. The main item uses this result in its Bill of materials and adds the costs of calculation schema at the end again. If disabled, the system calculates the complete structure and adds costs from the calculation schema once. Note: If purchase parts are included in the batch run, the calculated price of the purchase parts is used as reference for material valuation when calculating the assemblies. *Field: onelevel (1=on, 0=off - Standard)*
Evaluate dependent assembly	Button is visible only if "One step" was activated. If active, sub-assemblies of the assemblies to be valued are also valued even if they do not fit the selected filter. Example Filter: All items from A-B Item A is calculated, which includes items B and C If the switch is active, items B and C are valued before. If the switch is not active, only item B is valued. For item C the price according to pricing is used. Note: Variants are not checked! ***Example:***

© 2026 Boyum IT Solutions A/S

	sub-assembly B1 variant "A", B2 for variant "B" Both sub-assemblies are calculated, even if only one of the sub-assemblies is included in the calculation of the superordinate assembly. *Field: onelevellinked,(1=on, 0=off - Standard) Version: beas9.9-000-000-006*

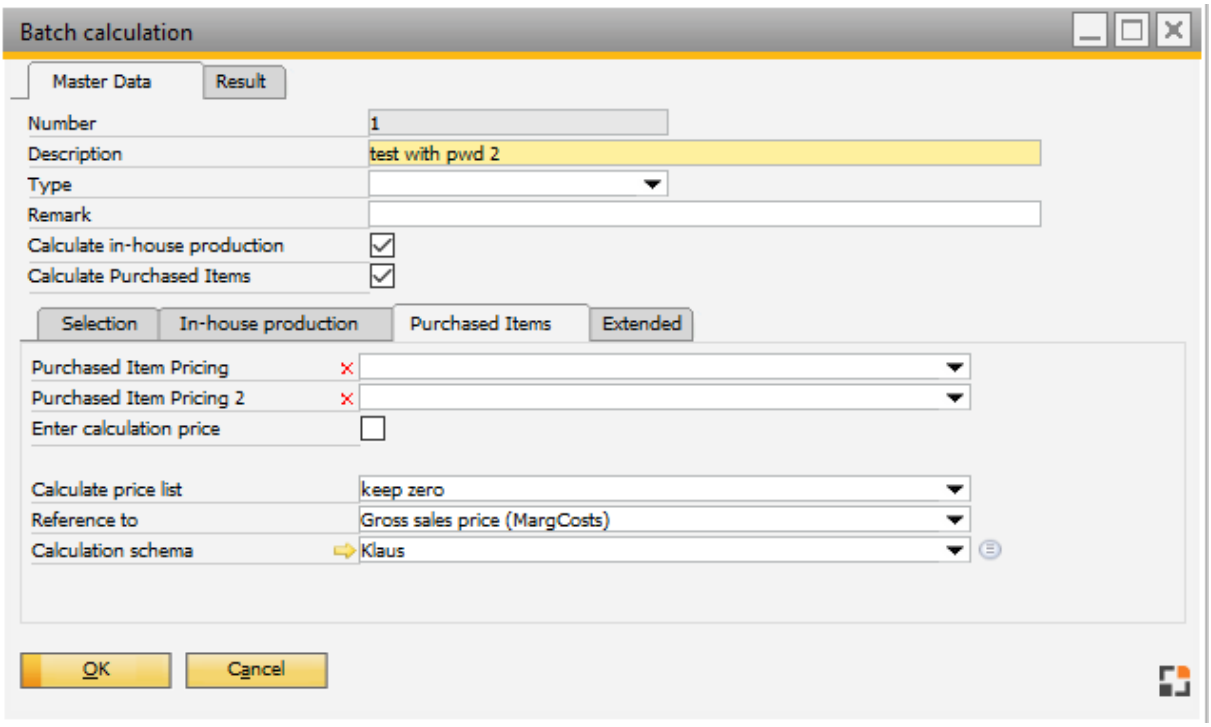
back to overview batch calculations

7.9.5.1.1.3 Purchased items

Batch calculation (precalculation)
Batch calculation overview
Edit Batch calculation
Selection tab
In-house production
Purchased items
Extended tab

Purchased items tab

A calculation of purchased items is only possible if activated in **Configuration wizard > Calculation > Precalculation.**



Window: pk_batchkalk_edit

© 2026 Boyum IT Solutions A/S

Field	Description

Calculate Purchase Items	You can use a purchased item evaluation, for example, to add administration costs and any other costs at a default price defined by pricing, and to fill a price list.
	Calculation for this area is deactivated by default.
	
	Purchase part calculation may be used for generating a sales price list, after adding storage costs, transport costs, revenue etc.
	
	Notes
	Purchase parts are calculated the same way as assemblies. Stored routings and materials are taken into account. If no BOM was stored, the material itself is taken as reference, all surcharges from the selected calculation schema are added, and the price is saved.
	
	Example 1
	
	`Material A`
	`  |_ Material B`
	
	Result = `Costs from Material B + Calculation Schema`
	
	Example 2
	
	`Material A (without Bill of Material)`
	
	Result = `Costs from Material A + Calculation Schema`
	
	Order of calculation
	
	When calculating assemblies and purchase parts, first the purchase parts are calculated and the resulting value is incorporated into the assembly.
	
	Field: kaufteil (J=on, N=off - Standard)

Purchased Item pricing	Pricing for calculation. If this field is not filled, standard settings are used.

© 2026 Boyum IT Solutions A/S

	See Precalculation - Material - Purchase price Configuration wizard - Calculation - Precalculation - Pricing
Purchased Item pricing 2	Second pricing if no price could be determined with the first one.
Enter calculation price	Should the calculation price stored in the item master data be entered? If so, you can specify the price in the following field. This field is visible only if "per warehouse" was not enabled. ***See*** Item - Calculation - Calculation price
Calculate price list	Specify whether a price list should be filled If a price list was selected, you can specify the price that should be entered in the following field. This field is visible only if "per warehouse" was not enabled. Saving the price list is very time-consuming; it can double computation time. If the Beas common interface is active, the process is executed asynchronously using this interface. Thus, price lists are updated using fewer resources. **Note:** The price list is filled using DI-API. The user starting the calculation requires rights to change prices via DI-API. ***See*** Server management
Reference to	Specifies the price that should be entered in the price list. This field is visible only if at "fill price list" a price list was selected.
Calculation schema	You can select a calculation schema to be used to perform the calculation. ***See*** Calculation schema.

back to overview batch calculations

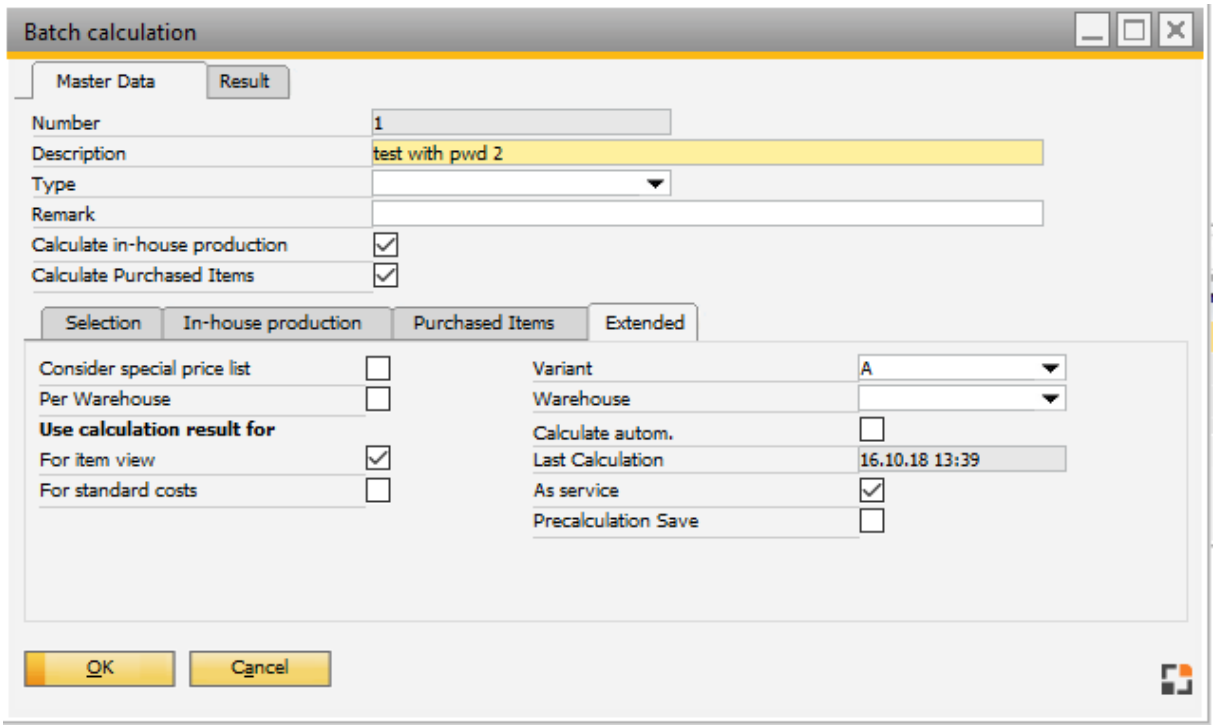
7.9.5.1.1.4 Extended tab

Batch calculation (precalculation)
Batch calculation overview
Edit Batch calculation

© 2026 Boyum IT Solutions A/S

Selection tab
In-house production
Purchased items
Extended tab

Extended tab

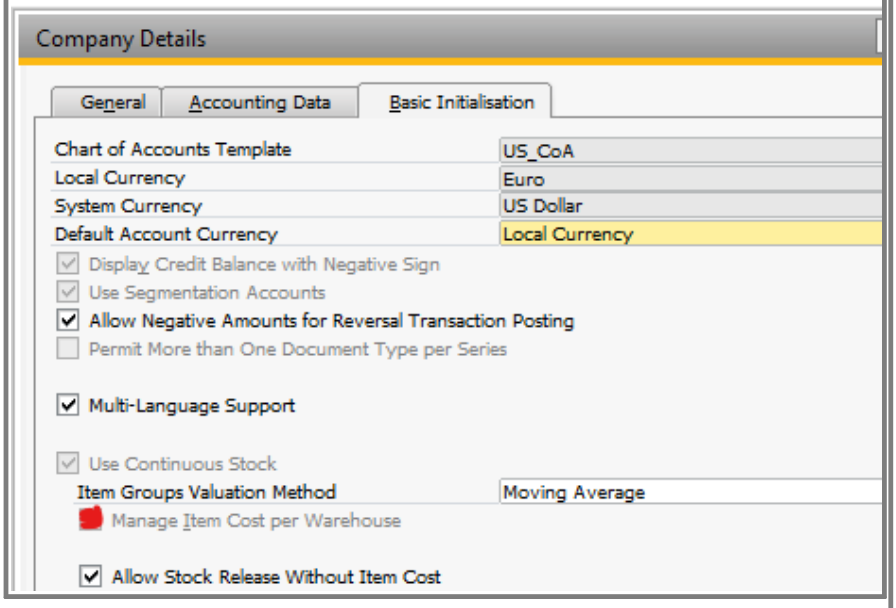


Window: pk_batchkalk_edit

Field descriptions

Field	Description
Consider special price list	Independent of the Configuration wizard, you can set up whether to consider special price lists and blanket agreements.
Per Warehouse	If enabled, calculation is performed per warehouse. In the next field, the warehouses to be included can be limited. Note The field is only visible if "Price per warehouse" was set up in SAP Business Onebasic initialization. If enabled, no prices can be saved to the price list or to the calculation price, because there a price per warehouse is not allowed.

© 2026 Boyum IT Solutions A/S

	This calculation is computationally extensive.  ***See*** Precalculation - Material - Purchase price
For item view	If active, the result of this calculation is displayed in item master; under "calculation" detailed information of the last calculation and various diagrams can be displayed. Only the result of one batch calculation is displayed. This can be used to define which of the batch calculations shall be used for the view.
For standard costs	Result is used as default for standard costs calculation and one stage post-calculation. **Standard costs** If active, this batch calculation is used for valuation of standard costs. In this case, the button "stock revaluation" is displayed in the results list. You can revalue the calculated items with this option. Furthermore, this switch affects the standard valuation method, and the **Detail** function in Batch calculation results. **Post calculation – Single stage valuation** In one stage post calculation "last Precalculation" can be used as a valuation form. The Precalculation in which this switch was activated is considered in this case. ***See*** Configuration wizard - Post calculation - Singe stage valuation

© 2026 Boyum IT Solutions A/S

	Note: If enabled, the type of batch calculation is set automatically to "valuation". For "Pricing per warehouse" you need to set up "per warehouse" here - Do not select the option "save Precalculation". ***See***: Batch calculation – stock revaluation Valuation of assembly – Standard costs method Concept: valuation of assemblies WO items Edit Batch-calculation – Standard costs
Variant	⊟ Determine the default variant to be used If any other than variant "A" shall be used as default, enter the variant here. You can also store a variant in warehouse definition; the variant stored there has a higher priority.
Warehouse	⊟ For which warehouse price calculation must be created This field is only visible if "per Warehouse" is activated. Define, for which warehouse the price must be calculated. For more information ***see*** per Warehouse.
Calculate autom.	⊟ If active, this calculation is executed automatically The batch-calculation can be started automatically via an activity. Use this switch to control whether this batch-calculation is to be included. ***See*** Activities.
Last calculation	Date of last calculation
As service	Determines the mode of calculation. ⊟ Enabled If the batch-calculation is started, it is carried out in the background. You can continue working. This is also possible for big amounts of data. This service uses the same, currently logged-on user – please make sure that all necessary rights have been granted. ⊟ Disabled

© 2026 Boyum IT Solutions A/S

	The calculation is started immediately. You need to wait until it is finished. Use this option for debugging. Do not use this mode for of huge amounts of data.
Precalculation Save	Save results as pre-calculation If active, the calculation is saved as Precalculation. **Performance note:** This type takes much more time. Select this option only if you need an image of this calculation to view it under Precalculation. Do not use this function to calculate more than 100 Items! Limitation: max. 1000 Items. As "Customer name" the designation of Batch-calculation is saved, under "Info" the continuous calculation number. Disabled option (Default): Calculation is faster. Precalculation is not saved and results are only displayed in Precalculation View Schema. Note: For standard pricing this option cannot be activated. If a Precalculation document is created from the Batch calculation process: - The Schema "Save Value As" function is not working. - Beas does not save the calculation schema result behind the result list.

back to overview batch calculations

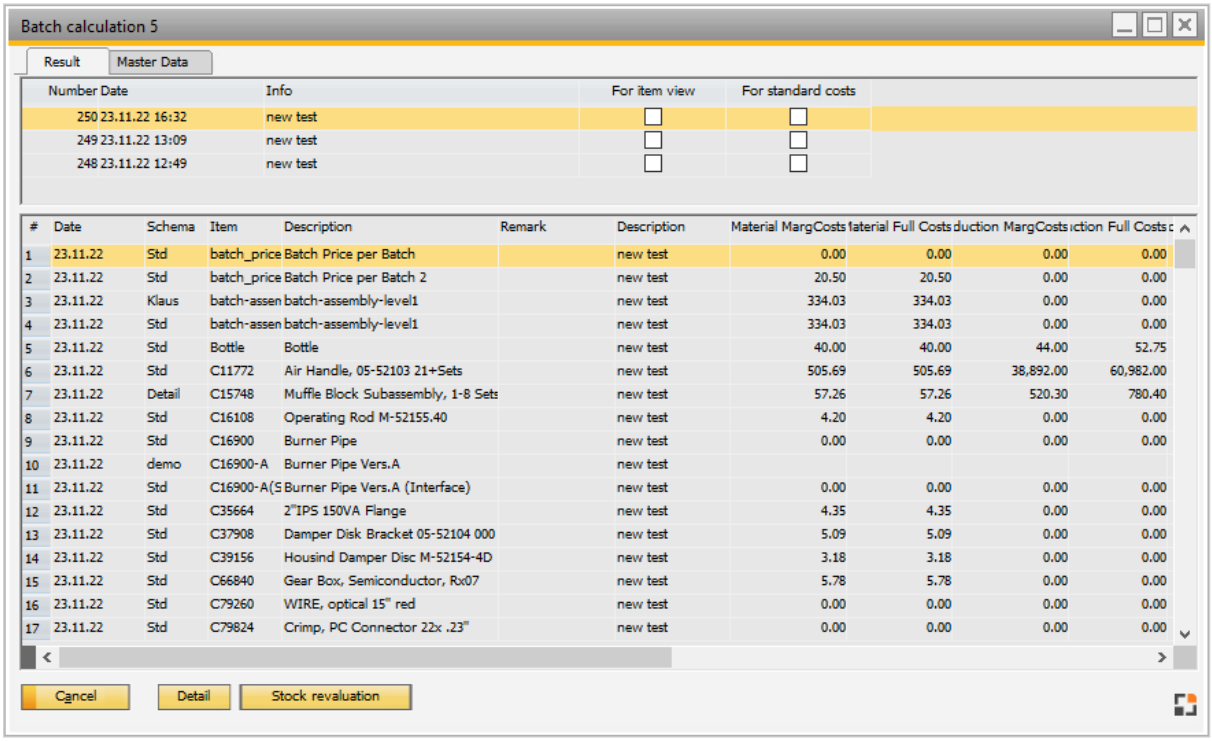
7.9.5.1.2 Batch calculation results

View results of batch calculation.

In the upper area, existing batch calculations are listed. Clicking on a calculation in the upper window section will display the information in the lower section with the results.

PATH: Inventory > Inventory transactions > Batch calculation > **Results** button.

© 2026 Boyum IT Solutions A/S



Window pk_batchkalk_browse.psr

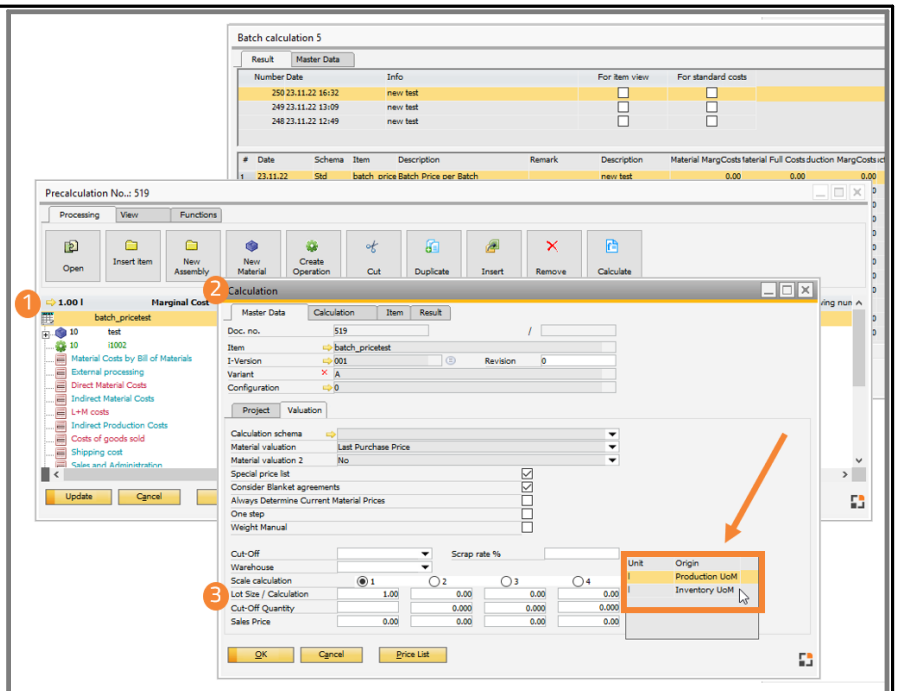
IMPORTANT: When Production UoM and Inventory UoM are different, Batch calculation result is based on Production UoM and lot size. However, the result is converted to Inventory UoM and displayed in it.

Use Window setting to display additional result fields our own result fields.

Function

Button	Description
Detail	Open batch calculation details If the "Precalculation save" flag is active in the Batch calculation Extended settings, this button opens the Precalculation results window. The result is displayed in Production UoM. **View results in Inventory UoM:** 1. Double-click the golden arrow left of the Lot size field 2. The Calculation master data window opens 3. Change the value of **Calculation master data > Valuation > "Lot size/Production"** field from Production UoM to Inventory UoM.

© 2026 Boyum IT Solutions A/S

	 If the "Precalculation save" flag is inactive, this button opens the schema view of the Precalculation for the selected entry. Results are displayed in Inventory UoM. Button alternative: Double-click the selected entry.
Stock revaluation	Open stock revaluation window. Note: This button is only available if "for Standard costs" is activated in this Batch calculation.

back to batch calculation overview

7.9.5.1.2.1 Batch calculation stock revaluation

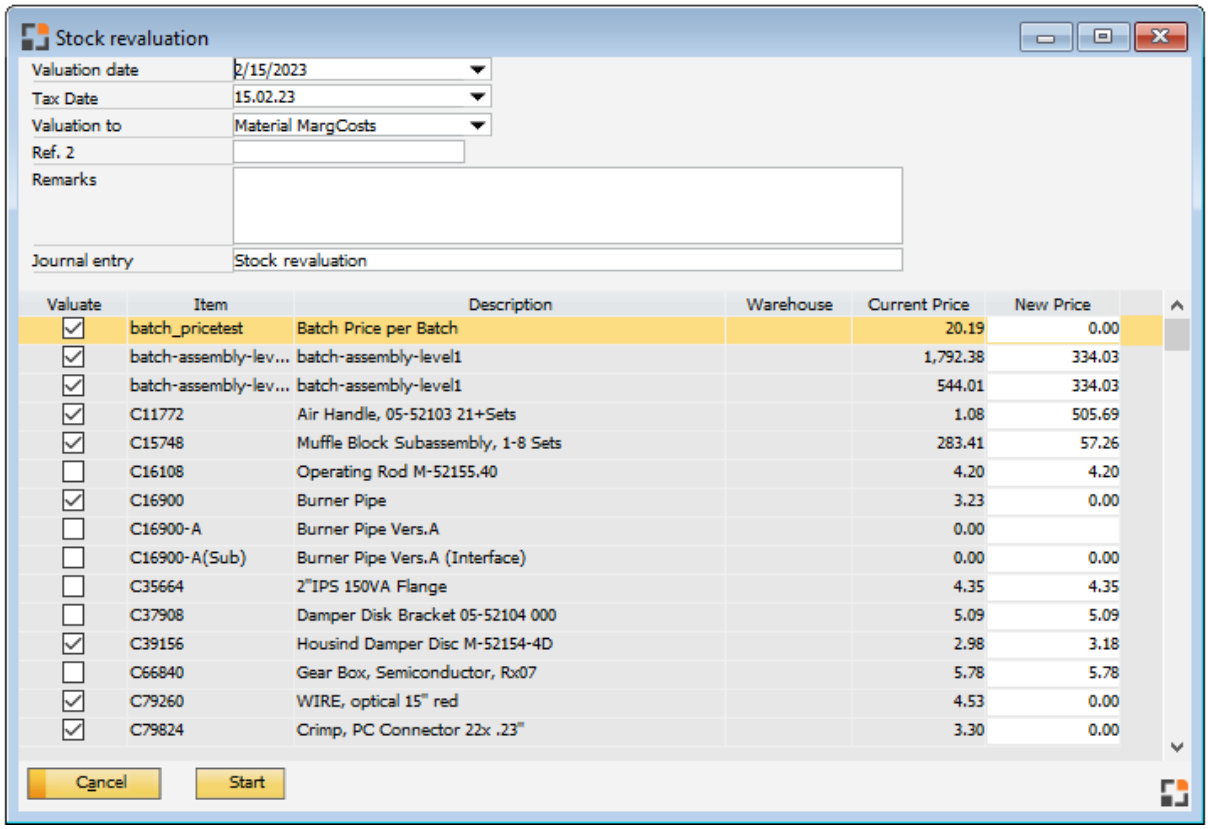
Works only if perpetual inventory system is activated in SAP Business One.
If the option "For standard costs" is enabled in a batch calculation, and the user has permission for inventory revaluation, based on the calculated results, an inventory revaluation can be conducted.

Open the results window (**Batch calculation > Result button**). If all requirements are met, the button "**Stock revaluation**" appears. If you click on this, it opens the Stock revaluation window. All items are shown with previous price and calculated price. If there are differences, in the field "review", the switch is active. The new price can be changed. Only the checked items entries are revalued. Only products with the valuation method "average price" and "Standard price" are displayed.

© 2026 Boyum IT Solutions A/S

Note: FIFO is not supported.

PATH: Inventory > Inventory transactions > Batch calculation > **Results** button > Batch calculation XX > **Stock revaluation** button



Window pk_batchkalk_revaluation_header.psr

Field	Description
Header	
Valuation date	Valuation date
Tax date	Enter the tax date.
Valuation to	Select from the list of cost types - Calculation objects
Ref. 2	Reference field
Remarks	Remarks
Journal entry	Information for the journal entry
Field list	

© 2026 Boyum IT Solutions A/S

Field	Description
Valuate	Select the price which will be used as a reference (manufacturing price, cost price, net price, etc., depending on marginal or full cost). Enter a valuation date.
Item	Item name
Description	Item description
Warehouse	Item location
Current price	The current price of the item
New price	The new price of the item after revaluation

Start: Press the button and the inventory revaluation is performed. It can be checked in **SBO > Inventory management > Inventory Transactions > inventory revaluation**.

Price rounding: If prices are different, use the switch "value".

Authorizations:
The user needs the authorization "stock revaluation" and "Batch-Precalculation"

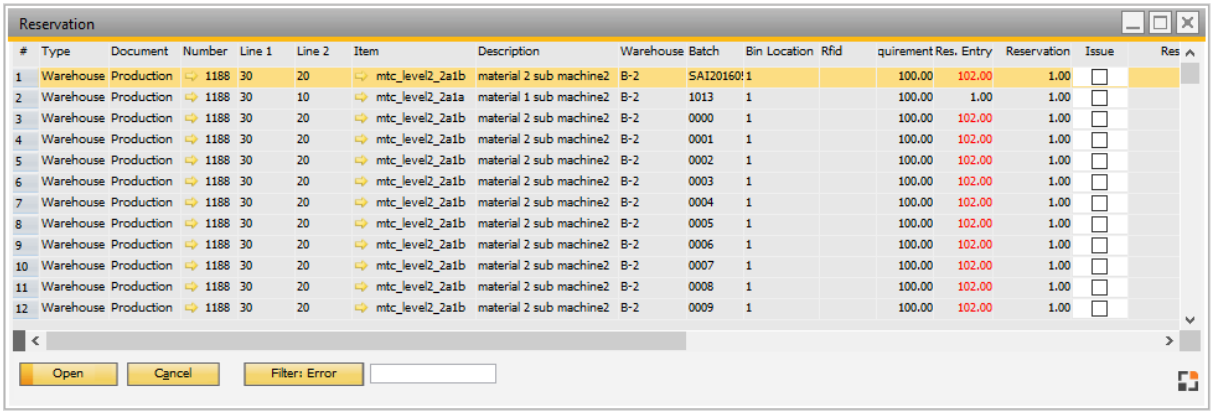
back to batch calculation

7.9.6 Reservation list

All active reservations are displayed and can be deleted here. Multiple selection and deletion are possible. Only warehouse reservations, no receipt reservations are displayed. Currently, only the Beas reservation system is supported. Each row represents a reservation on item/batch/bin location level for a pegging.

For transactions, use the issue and reservation window.

© 2026 Boyum IT Solutions A/S



Window reservation_ browse.psr

Column	Meaning
Type	Reservation type.
Document	Document type: customer orders, work order
Number	Document number.
Line 1	Work order position .
Line 2	Work order position assembly line.
Item	Item number.
Description	Item description.
Warehouse	Current warehouse.
Batch	Batch.
Bin location	Bin location.
Requirement	Remaining requirement of pegging.
Res. Entry	Quantity reserved in total for that pegging. If this entry is large than the requirement it is displayed in red and marked as wrong.
Reservation	Quantity of the current reservation for that entry (item/batch/bin) depending on pegging. If this entry is larger than the current stock, it is displayed in red and marked as wrong. For reservation type "receipt" this column is hidden.
Reservation Total	All reserved batch quantity. **WMS Integration:** The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".
Locking level	⊟ The WMS locking type that reserved this material. **WMS integration:**

© 2026 Boyum IT Solutions A/S

	Beas displays the WMS locking type with which the material was reserved. The supported WMS locking types: - Batch - LUID - Detail For more information, ***see*** our Beas-WMS integration documentation. ***See*** also: WMS documentation of the locking function (PATH: **Produmex WMS Fields and Settings > 6.1.1. Locking > 1. Inventory lock**)
OK	Allows direct issue If this check box was ticked, the marked line can be issued directly, by clicking the button "issue". The button is displayed, when at least one line was marked. You can mark only reservations, which are - Of type "warehouse" - Linked to a work order *(beas 9.0 PL: 07)*
Res. Entry	Reservation for that (item/batch/bin) independent from pegging. If this entry is large than the current stock it is displayed in red and marked as wrong. For reservation type "receipt" this column is hidden.
Inventory	Stock of this item/batch/bin. For reservation type "receipt" this column is hidden.
UoM	Unit of measurement.

Functions

Function	Meaning
(Reservation) Open	The button opens the "Reservation" window for the selected item.
Remove	Delete the reservation. **WMS integration:** The button is only available for WMS locks by "Detail". The deletion of other supported locking types (Batch and LUID) is not supported.

© 2026 Boyum IT Solutions A/S

Cross reference	Opens Item cross reference.
Invent. history	Opens Inventory history.
Filter: Error	Only entries marked as wrong are displayed. Filter applies only for displayed entries. Reservation type "receipt" is not displayed. Click the binoculars right below to display all entries (Filter: All).
Change log	Open the Change log.
Search (input field)	Enter a term to search for the following • Item Number ("BEAS_RESERVATION_LINE"."ItemCode") • Match Code ("OITM"."U_match") • Item description ("OITM"."ItemName") • Base Doc Entry ("BEAS_RESERVATION_LINE"."BASE_DOCENTRY") • Batch ("BEAS_RESERVATION_LINE"."BatchNum") • Bin Code ("BEAS_RESERVATION_LINE"."BINCODE") *(beas9.0-000-002-003)*
Issue	Issue marked reservations directly Button (located top left) is displayed only if at least one reservation row was marked using the check box. It is possible to issue the reserved entry directly. ***See*** Column "OK". *(beas 9.0 PL: 07)*
Reservation Conflicts	Opens a screen to resolve conflicts of reservation/locking between Beas and WMS systems. The Configuration wizard setting to Integrate WMS reservation system is linked for activation. *Window wms_reservationconflic.psr*

Window settings are available.

Reservation window

Sales order: Hard stock reservation

back to inventory

7.10 Tool Administration

Beas is equipped with complete tool administration which is supported in Precalculation and in manufacturing.

Tools can be maintained, variation costs recorded and drawings and documents can be stored.

© 2026 Boyum IT Solutions A/S

Tools can be entered and requirements can be administered via the routing.

Note: Tools are currently not supported in post-calculation.

LIMITATION ON TOOLS:

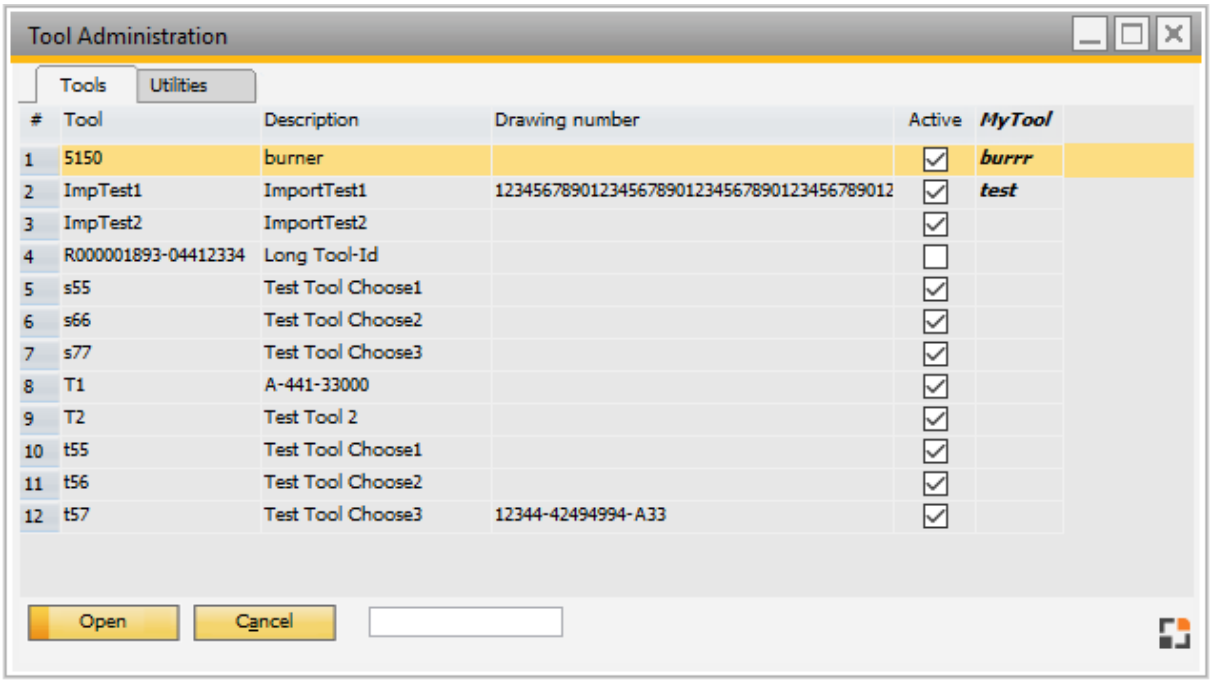
Important: In APS, the system calculates interruption time ONLY for resources. Tools do not have a precalculated calendar, and Beas does not check interruption on Tool level.

Beas supports the following types of tools:

Field	Meaning
Utility	The simplest type of tools are utilities. These have no imputed costs, do not influence capacity planning, and have no maintenance process. Utilities can be used for example in quality control orders. ***See*** QC–inspection plan.
Tool without resource planning	Tools with purchase and maintenance costs but which have no effect on resource planning.
Tools with resource planning	Tools with purchase and maintenance costs, which only exist once, are uniquely defined in tool management, and so are also reserved.
Tools that influence the throughput time	Tools with purchase and maintenance costs, which only exist once, are uniquely defined in tool management, and influence the throughput time of the main work sequence. Any number of tools of this type can be stored per work sequence, but only one such tool can be active at a time. The throughput time (defined in Operation – Tools tab) is transferred to the work sequence once the tool entry is activated.

PATH: Inventory > Tool Administration.

© 2026 Boyum IT Solutions A/S



Window stamm_wkz_browse.psr

Tool Management tabs

Tab	Meaning
Tools	Definition of tools.
Utilities	Definition of utilities.

Important: Data on tools and utilities is stored in the same table. For this reason, utilities and tools must not be given the same ID.

Field descriptions

Field	Description
Tool	Tool name
Description	Description of tool
Drawing number	Drawing number
Active	If tool is active, check box is flagged.
My Tool	Unique tool name
Type	Type of tool
Warehouse location	Warehouse location for the tool.
Capacity planning	If the tool is considered in capacity planning, the check box is active.

© 2026 Boyum IT Solutions A/S

Field	Description
Maintenance Info	Information of maintenance work done on the tool.
Locked reason	Reason for tool block.

Window settings are available.

Functions

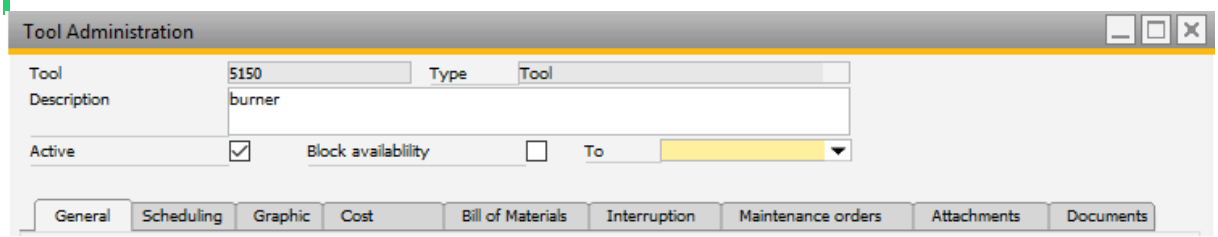
Function	Description
Open	Open selected tool entry.
Add	Create new tool.
Remove	Remove selected tool entry.
Duplicate	Create a new tool entry by duplicating the values of the selected tool. A "Copy" pop up window appears to Enter new ID.
Search	Open dialog box to search by Description, Drawing no., Type and ID.

7.10.1 Edit tools

In this window it is possible to edit tools.

General tab
Scheduling tab
Graphic tab
Costs tab
Bill of Materials tab
Interruption tab
Maintenance orders tab
Maintenance orders tab
Attachments tab
Documents tab

PATH: Inventory > Tool Administration > **Open** an entry.



© 2026 Boyum IT Solutions A/S

Window stamm_wkz_edit.psr

Field description of the tool position

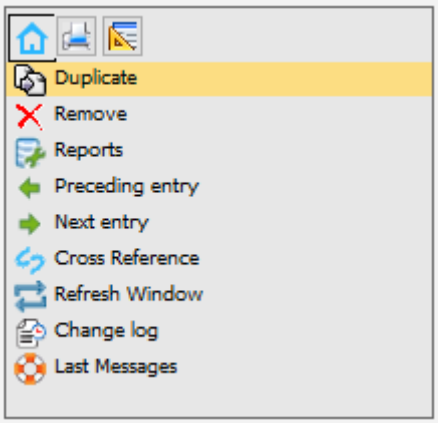
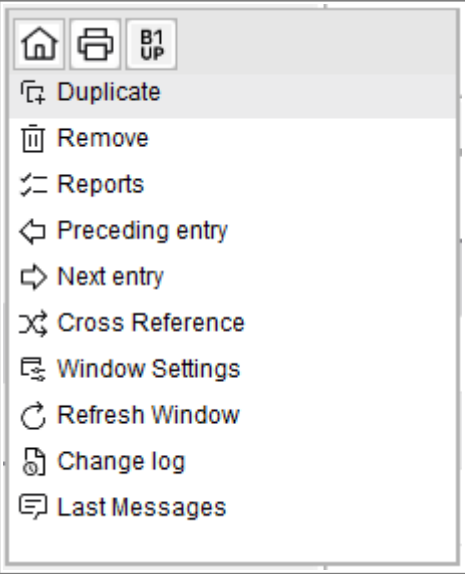
Field	Meaning
Tool	Unique 20-digit tool ID.
Type	Type of tool. Selected automatically based on which tab the in Inventory > Tool Administration the tool was created, Tools or Utilities.
Description	Description of the tool.
Active	Enabling the active flag makes the tool available for selection at productions operation. If it is deactivated, selection is not possible. If it is still in use, it is blocked in planning together with its use.
Block availability...To	A time-based block e.g. due to maintenance or repair can be set here. You must also specify the time until which the block is planned with the field "To" on the right. This blocks the tool for selection at productions operations on a specific date.

Description of tabs

Tab	Meaning
General	General definition of the tool.
Scheduling	Capacity planning information. Only visible if "Capacity planning" is activated.
Graphic	Shows a graphic image of tool usage per days/percentage. ***See*** Graphic tab.
Cost	Purchase or production costs and definition of maintenance costs.
Bill of Materials	Further tools or tool parts belonging to this tool can be defined here. Various BoM information with Position number, Tool ID, quantity etc. Window settings are available.
Interruption	Set up or edit new interruption time, start / stop interruption.
Maintenance orders	Display all maintenance orders linked with this tool. ⊟ Display old tab before beas9.1-008-040-003. Maintenance information, counter readings CTRL+N+U > and insert the next line setvar=as_oldMaintenance=1
Attachments	Up to 3 further images or documents can be attached.
Documents	Documents can be stored per tool.

© 2026 Boyum IT Solutions A/S

Right-click menu:

Traditional style	Boyum Style
	

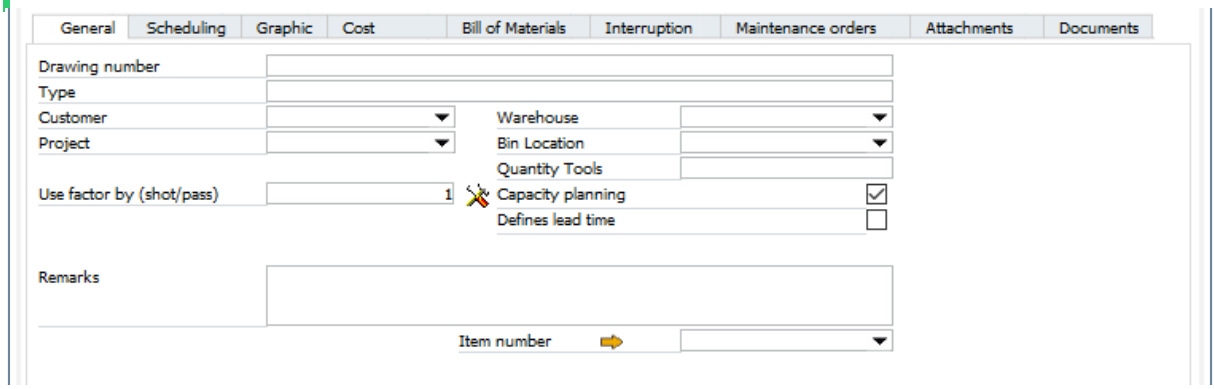
Change log: you can Call up Change log.

Note: Changes in "BoM" tab and "Documents", as well as "Costs"/"Change log" are not included in the change log.

(beas9.1-004-068-000)

7.10.1.1 General tab

PATH: Inventory > Tool Administration > **Open** an entry > "General" tab.



Window stamm_wkz_edit.psr

Field	Meaning

© 2026 Boyum IT Solutions A/S

Drawing Number	Drawing number of the tool.
Type	Tool type. Only used for as additional information for reporting and organizing them
Customer	Select a business partner if the tool belongs to a customer, was sent to a provider, or is used to manufacture parts that will be sold to a specific customer.
Project	Select a project in case the tool belongs to a specific project.
Use factor (per shot / pass)	Use factor of the tool. A tool can produce several parts per shot. If the use factor changes, use this field to apply the change to all routing positions. ***Example***: a stamping tool can produce 20 parts per shot. Utility factor = 20. After certain time, the tool is partly defective and can only produce 18 parts. Using this utility factor, this information can be written directly to all active routings and work orders. Enter 18 to this field and click the tool icon next to it to apply changes to all routing positions. ***Example***: The production of plastic injected parts, where the mold used to produce the parts (which is the tool) can have multiple cavities to create several parts at the same time. If the mold has 5 cavities, this means it can generate 5 items at each use, the number 5 should be filled at the Use factor by (shot/pass) field. If the tool is used to determine the production times, you can click on the button right next to Use factor by (shot/pass) field to update the changes in this field into all existing routings and work orders. **Important**: This field is only available for tools, not for utilities.
Remarks	Include additional information, if applicable
Warehouse	Specify a warehouse for the tool. The information at this field does not change any of the transactions created by the tool. This can be set to be used by default in the Configuration wizard.
Bin location	Used only if no item number has been stored. A bin location can also be stored here without accessing inventory management.
Quantity tools	Number of available tools. For information only.

© 2026 Boyum IT Solutions A/S

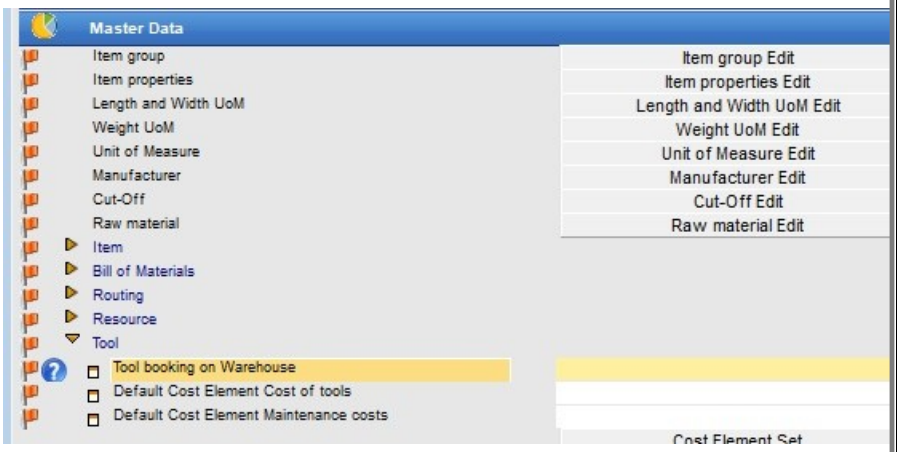
	Note: For the tool to be used in capacity planning, the value in Quantity Tool cannot be greater than “1”, and each tool should be registered separately. **Important:** The value entered in this field is ignored if "Number of machine/person" in the resource is higher than 1.
Capacity planning	Calculating lead time - is the tool taken into account? By enabling this option, you need to enter times. Planned use of tools is taken into consideration - depending on the calculation type. Tool availability is checked. **Important**: This field is only available for tools, not for utilities.
Defines lead time	Does the tool determine the lead time? If enabled, the default times of the tool are transferred to the operation. In this case, the tool influences lead time. Only values are used, which had been entered in "planning". Empty fields are ignored. If more than one tool was stored in an operation and for both "determine lead time" was enabled, only one tool can be activated. Activating or exchanging the tool is possible in Work order structure or in APS – graphic view.
Selectable at time receipt	If enabled, it allows the tools to be selectable when creating a time receipt. This influences the maintenance counters. This field is only visible if "determines lead time" was activated. **Important**: This field is only available for tools, not for utilities.
Item Number	When tools should be entered or should generate a demand through production, an item entry must be made in parallel to the tool. **Attention:** Only limited support. This entry defines the item entry through which the tool is entered. At the same time, it is necessary to define a tool store in the options into which the tool can be entered for the interim period if the tool is used. The intermediate inventory should be of the type "Locked inventory".

© 2026 Boyum IT Solutions A/S

An automatic transfer of the tool is performed for the setup login of an order.

Workflow:

1. Create item for this tool.
   Preconditions:
   - No batch- and serial management support.
   - Item must be stock on default warehouse.
   - Item must have a stock default warehouse.
2. The system transfers the tool from default warehouse to "tool in production" warehouse.
   Create this warehouse and define this in the Configuration wizard:



3. Insert this tool in routing position.
4. Create a work order.
5. Log in to this routing position. **ATTENTION:** Only type (R), that is "Setup Time" is available for login. The process is not triggered for any other types.
6. The system automatically creates an issue document from Default warehouse.
7. If no stock is available, the system does not create the issue document. No warning or error message appears.
8. Then, the system creates a receipt document to the warehouse defined in the Configuration wizard.
9. Log out from the routing position.
10. You must transfer the tool manually to the default warehouse.

© 2026 Boyum IT Solutions A/S

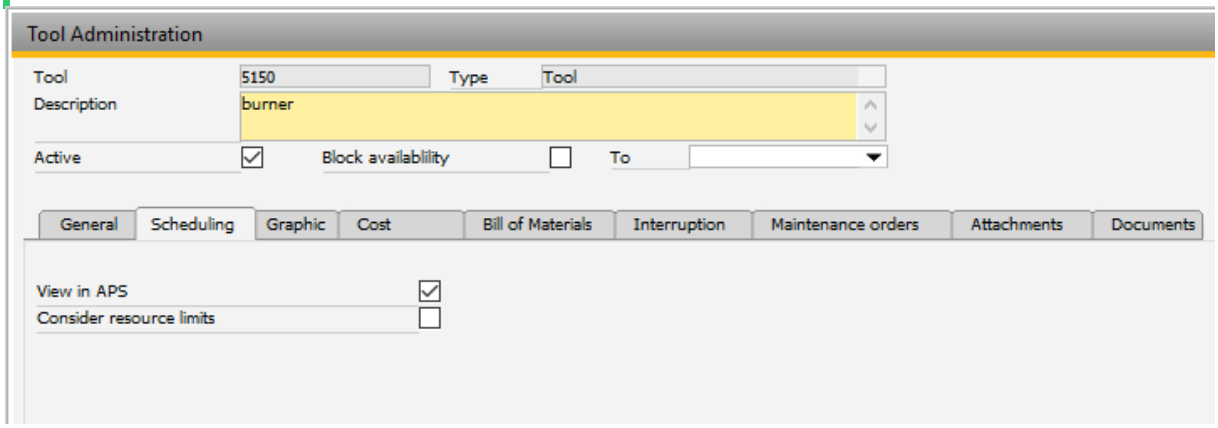
	The system does not check if the tool is on stock. Availability is only visible in the Pool List -> "F2 Open" window. **Limitation:** - Beas uses standard accounts for manual transactions. - Beas uses the price defined in SAP B1. - Bin Management is not supported. - Beas does not check minimum stock or other stock rules. - No support of work order numbers > 1000000.

back to tool tab

7.10.1.2 Scheduling tab

The **Planning** tab is only visible if the **Capacity planning** option has been activated in the **General** tab.

PATH: Inventory > Tool Administration > Open an entry > "Scheduling" tab.



Window stamm_wkz_edit.psr

Field	Meaning
View in APS	Determines whether the tool should be displayed in the APS Gantt view. If this is not relevant for planning in the graphical view, it is advisable to deactivate this option.
Consider resource limits	If enabled, resource limits are taken into consideration.

© 2026 Boyum IT Solutions A/S

Buttons:

Reference: Opens the Reference window for Production.

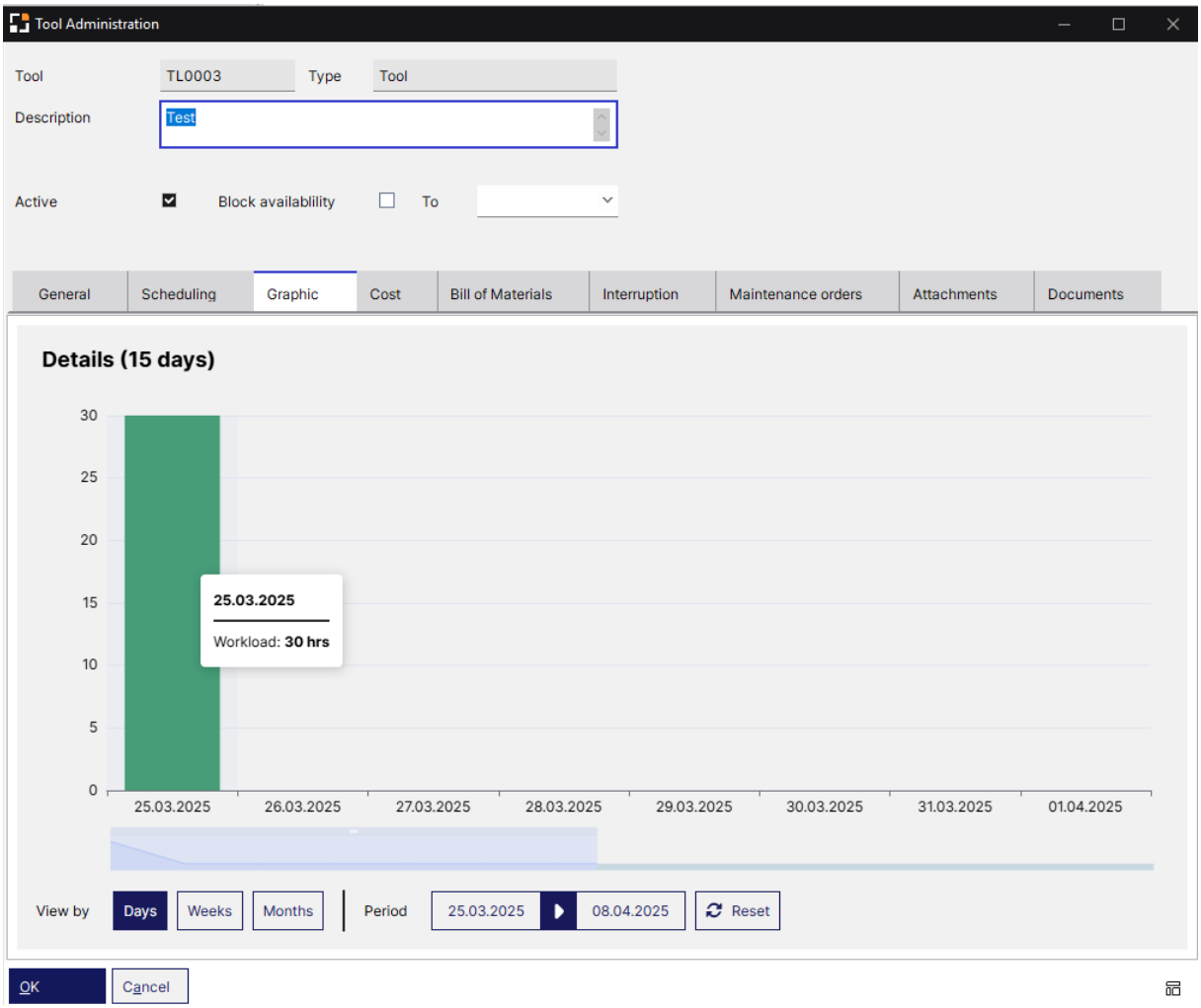
Counter Status: opens the Tool Interval window.

back to maintenance tab

7.10.1.3 Graphic tab

This tab provides a graphic demonstration of tool usage per days/weeks/months and percentage. It shows the workload of the selected tool detailed in a specific period of time.

> Note: Only available for tools with Capacity planning.



Window stamm_wkz_edit.psr

© 2026 Boyum IT Solutions A/S

7.10.1.4 Costs tab

The costs for a tool are calculated from 2 areas: Purchase/production and maintenance costs. Both values are written to separate cost elements which can be configured in advance in the Setup Wizard and overwritten in the tool, as well as later in the routing, Precalculation, and production. In post-calculation tool costs are not taken into account.

Purchase or production costs

For single use

Example: the tool is only used for this one order. In this case, the lifespan does not apply.
Purchased Price = the production price
Lifespan in units of quantity or hours = is set to 0.
Following is calculated: Purchase price: quantity to be produced = tool purchase price costs per unit to be produced

For multiple use

If the tool is used for other orders, the lifespan plays a part in cost calculation.
This is calculated in time (*cost recording* in time) or quantity (*cost recording* in quantity).

For *cost recording* in *Time:*
Tool purchase price costs per unit to be produced = purchase price: Lifespan (time) * Time required per unit

For *cost recording* in quantity*:*
Tool purchase price costs per unit to be produced = purchase price: Lifespan (quantity)

Maintenance costs
The maintenance costs are specified as a second factor. These can be written to another cost element if purchase price costs and maintenance costs should be separately analyzed or posted.

For *cost recording* in *Time:*
The costs are specified at marginal and full costs per time unit to be stored (hour/minute).
Costs per unit to be produced - corresponds to time required per unit * cost record per time unit
e.g. Marginal costs = €2 per minute, production time for 1 unit = 10 minutes: Maintenance costs of €20 per unit to be produced are generated.

For *cost recording* in *Quantity*:

© 2026 Boyum IT Solutions A/S

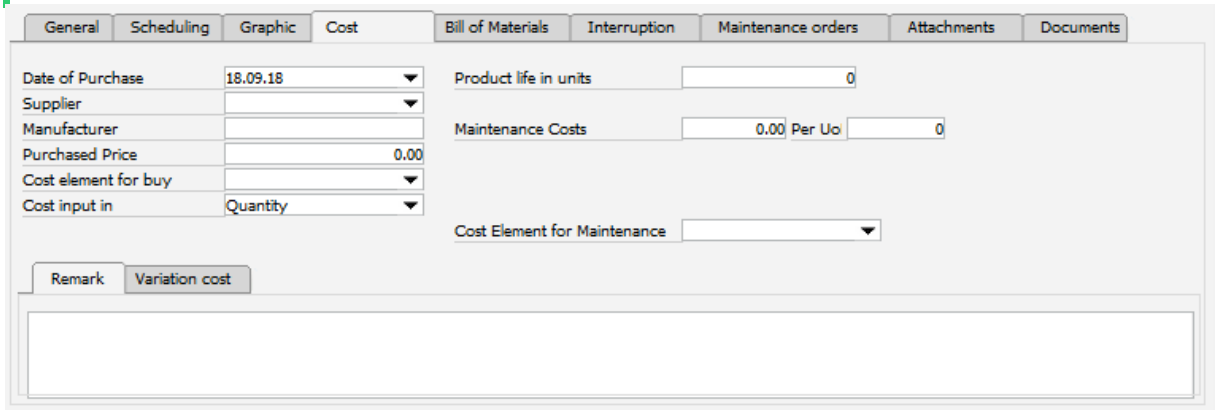
The costs (*Maintenance Costs*) per quantity to be specified (*per QU*) are specified, e.g. €500 per 10,000 units.
In this case, maintenance costs of €0.05 per unit to be produced are generated.

Tool costs in Precalculation

Tool costs can only be considered in Precalculation by creating a costing object. Although tools are stored behind routing positions, the costs are not summed there. Tool costs may be issued separately only in the sum objects.

1. Create two types of costs.
2. Store these types of costs in the tool.
3. Insert two surcharge objects in calculation referring to the respective cost type. Then, the tool costs can be included in the sum.

PATH: Inventory > Tool Administration > Open an entry > "Cost" tab.



Window stamm_wkz_edit.psr

Field Descriptions

Type	Meaning
Date of Purchase	Date of purchase or manufacture of the tool.
Supplier	Supplier of the tool.
Manufacturer	Name and other data of the manufacturer.
Purchased Price	Purchase or production costs in home currency.
Cost element for buy	Cost element to which the purchase or manufacturing costs should be written in the precalculation and costing analysis (can be changed in

© 2026 Boyum IT Solutions A/S

	the precalculation and in the work order).
Cost input in	Defines whether the maintenance interval specifications refer to time or quantities.
Cost element for maintenance	Cost element to which the maintenance costs should be written in the precalculation and costing analysis (can be changed in the precalculation and in the work order).

Settings for *Cost input in* in "quantity"

Type	Meaning
Product life in units	Defines the lifespan per Production UoM of the assembly to be produced.
Maintenance Costs	Defines the costs per "*per QU*" - use in Production UoMs of the assembly to be produced.
per QU	Refers to "*Maintenance Costs*". Defines the factor that the maintenance costs refer to.

Settings for *Cost input in* in "time"

Type	Meaning
Time to Live in Hrs	Defines the lifespan in hours.
Cost per	Defines whether the specified costs per hour or minute correspond.
Marginal Cost	Determines the marginal cost rate per "*Cost per*". Can be overwritten in the precalculation and work order.
Full Cost	Determines the full cost rate per "*Cost per*". Can be overwritten in the precalculation and work order.

An additional tab is displayed under the inputs with the following functions:

Tab	Meaning
Remark	Comments on purchase or production costs.
Variation Cost	Definition of further costs due to changes. **Note**: For information only. Does not affect Beas functionality.

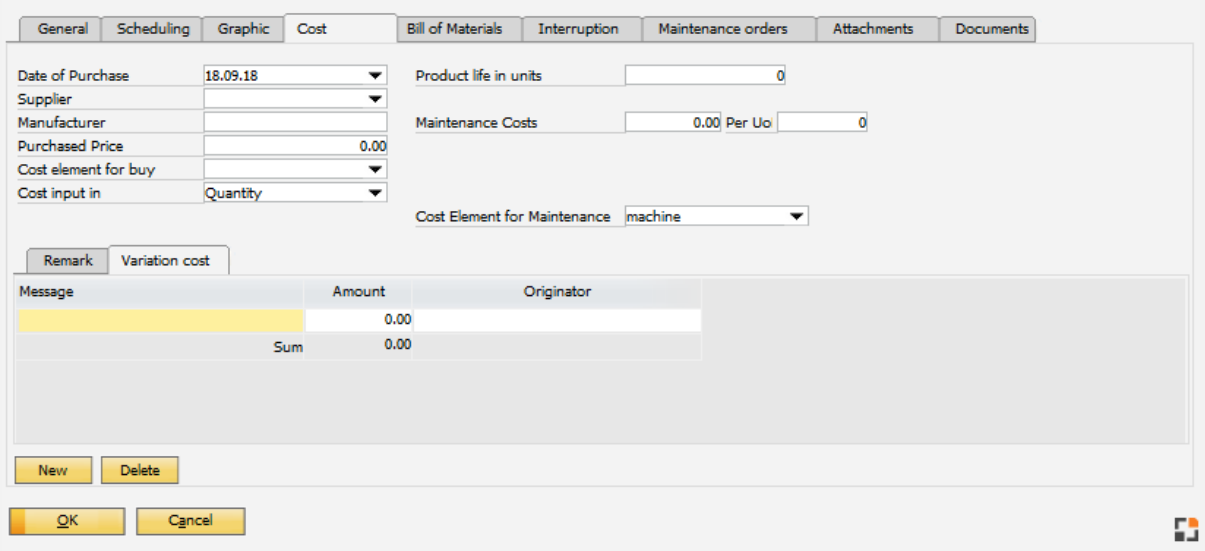
© 2026 Boyum IT Solutions A/S

back to tool tab

7.10.1.4.1 Variation Costs tab

High quality tools are often modified, serviced or repaired for customers. The corresponding costs can be captured in this tab.

PATH: Inventory > Tool Administration > Open an entry > "Cost" tab > "Variation cost" subtab.



Window stamm_wkz_edit.psr

Field Description

Message	Information field on the change. You can add a new message by clicking the New button.
Amount	Costs
Originator	The originator person (repair or customer request)?

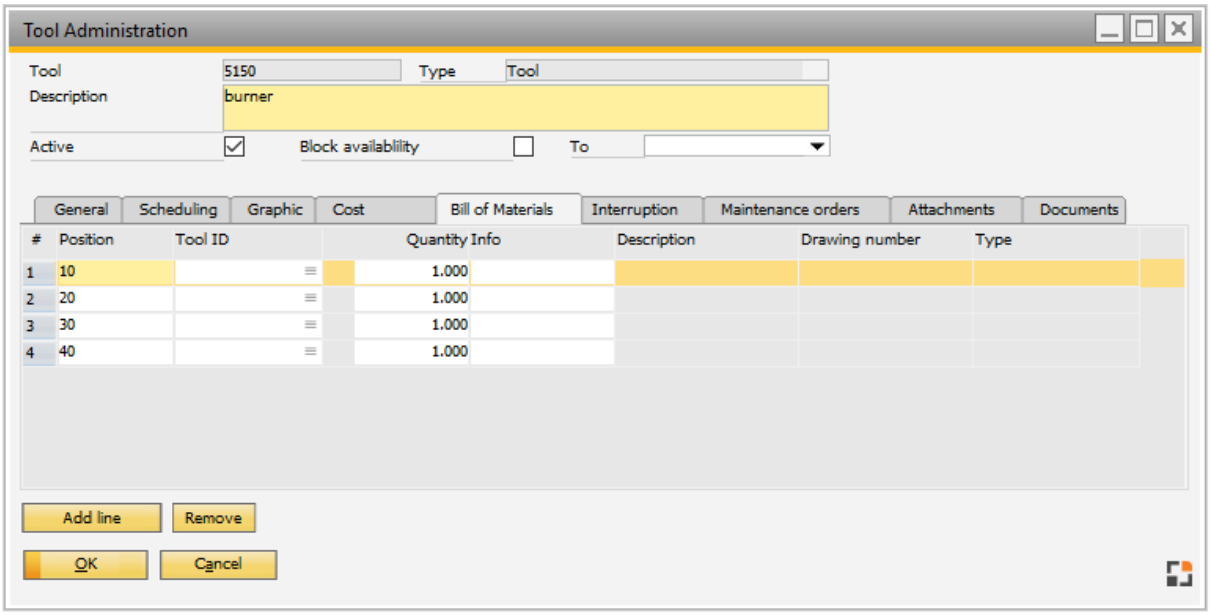
New: Use this button to add further variation costs to the current tool by filling the above detailed fields.
Delete: Use this button to remove a variation cost from the list.

7.10.1.5 Bill of Materials tab

A tool can also represent a blanket term for multiple tools.
Auxiliary tools and normal tools can be grouped into one main tool.

PATH: Inventory > Tool Administration > Open an entry > "Bill of Materials" tab.

© 2026 Boyum IT Solutions A/S



Window stamm_wkz_edit.psr

Note:

The tools specified here are not considered in Business performance or capacity planning.

Field Description

Type	Description
Pos ID	Unique position number.
Tool	Unique 20-digit tool ID.
Quantity	Required tool quantity.
Information	Any information.
Description	Tool description.
Tool drw. no.	Drawing number of the tool.
Tool type	Tool type.

Window settings are available.

Add line: Use button to add further bill of materials to the list.

Remove: Use button to delete any bill of materials from the list.

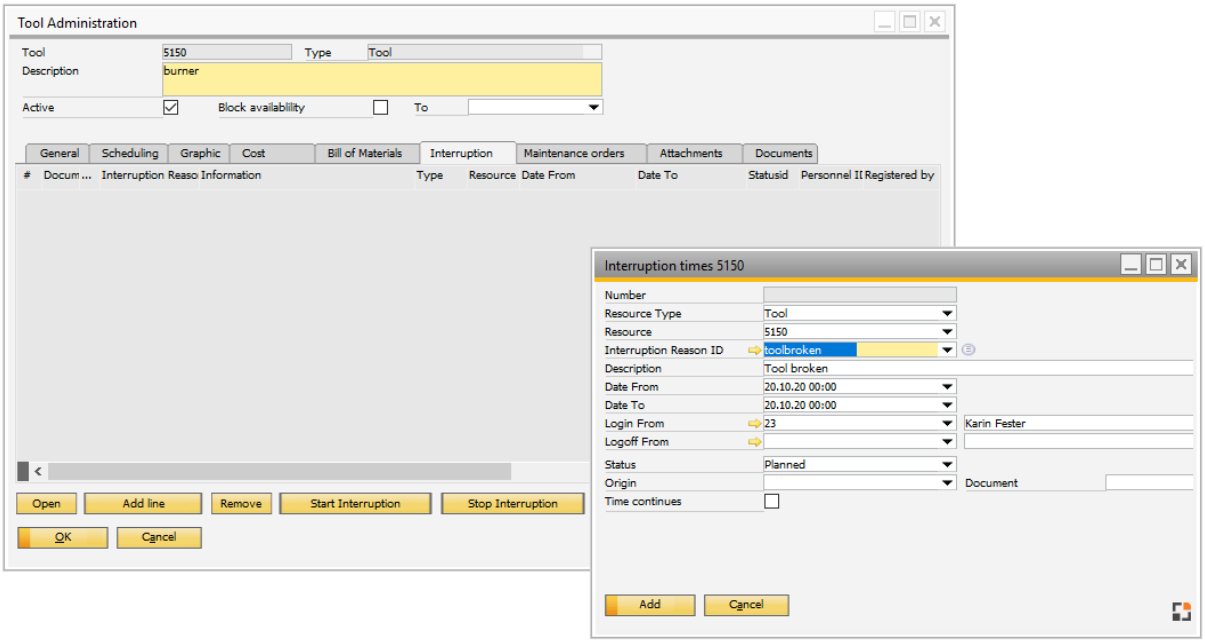
back to Costs tab

© 2026 Boyum IT Solutions A/S

7.10.1.6 Interruption tab

In this tab you can set up or edit new interruption time, start / stop interruption times.

PATH: Inventory >Tool Administration > Interruption tab > **Open /Add line**.



Window stamm_arbplatz_stillstandgrund_edit.psr

Field Descriptions

Field	Description
Number	Field used to identify the interruption. This is a counter created automatically by Beas.
Resource type	Field used to specify whether the interruption will be created for a resource or tool.
Resource	Field used to define the resource or tool where the interruption should be created.
Interruption Reason ID	Field used to define the interruption reason. This can be created directly in this tab by clicking on the list button right next to the ID field, or from the setup menu in SAP.
Description	Free text description of the interruption reason. By default this is the description from the selected interruption reason.

© 2026 Boyum IT Solutions A/S

Field	Description
Date From	Start of interruption. A day and time can be defined. By default, the current date is selected. **Important**: This field changes depending on the status. For example, if the status is set to active, the date changes from the current date to 01/01/50 00:00. This is in order for the system to understand that this resource cannot be used before the interruption ends.
Date To	End of interruption. A day and time can be defined. By default, the current date is selected. **Important**: This field changes depending on the status. For example, if the status is set to active, the date changes from the current date to 01/01/50 00:00. This is in order for the system to understand that this resource cannot be used before the interruption ends.
Login From	Specify the person responsible for starting the interruption.
Logoff from	Specify the person responsible for stopping the interruption.
Status	• Planned • Active • Complete
Origin	Include the maintenance order linked to the interruption.
Document	
Time continues	Determines if the production time continues, as long as interruption is active. This can be activated e.g. if also costs of the interruption times should run on the current running work order. Youtube *(beas 9.2 PL:00)*

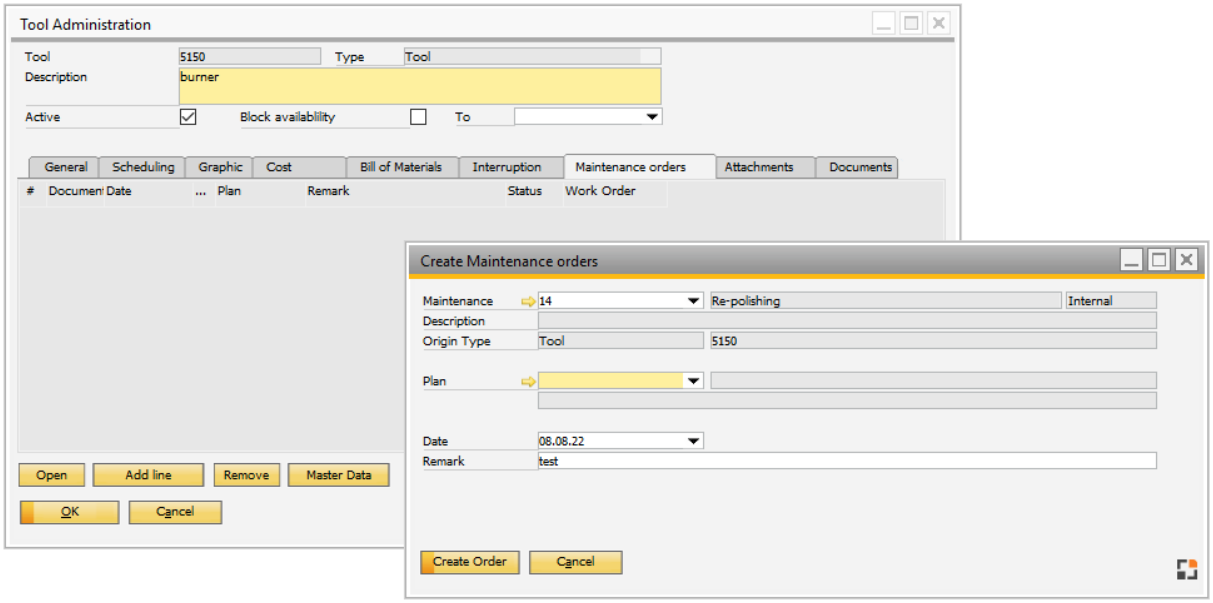
Window settings are available.

© 2026 Boyum IT Solutions A/S

7.10.1.7 Maintenance orders tab

Maintenance information can be stored here if you do not use the maintenance module.

If this must be activated, the following customer specific script must be stored:
`setvar=as_oldMaintenance=1`



Window: stamm_wkz_edit.psr, maintenance_order_new_psr

Field	Meaning
Last Maintenance	Date of last maintenance. Required for analysis.
maintenance (per uom)	Maintenance interval according to corresponding units of quantity or time, which are defined in the Costs tab. Required for maintenance analysis.
Maintenance counter status	The maintenance analysis relates to reported quantities (yield and scrap). If the quantity has not been reported or the counter was not set to 0 at begin of the registration, the counter can be increased manually. The current counter status is displayed by pressing the button "**Counter status**".
Current counter status	Put in the current counter status for a defined date. Manual input field, only for information purpose.
Last determined at	Date of determination of current counter status.
Status	Text information on tool status.
Remarks	Maintenance information (text field).

Window settings are available.

© 2026 Boyum IT Solutions A/S

Button **counter status:** Displays counter status and maintenance information.

Column	Meaning
Tool	Name of tool.
Description	Description of tool.
Maintenance max	Information from tool: maintenance interval (per x uom).
Last maintenance	Information from tool: last maintenance.
Reported quantity	quantity reported via time receipt since the last maintenance.
Manually	Information from "maintenance counter status".

If "reported quantity" + "manually" is greater than "maintenance max" the line is presented in red.
With "Search / New Search", the filter set for tools can be removed, an overview on all tools is presented.

Buttons:

Only requirement: Show only tools with overdue maintenance.
With message: Show only tools with a time receipt.

back to tool tab

7.10.1.7.1 Periodic tool maintenance

This list helps to observe the maintenance intervals.

PATH: Tool Administration > Maintenance orders tab > click on Orange arrow > "Maintenance Counter Status" field

This is an active list allowing the tools to be processed directly.

Field definition

Field	Description
Tool	Tool Key.
Description	Tool description.
Max maintenance	Maintenance required from quantity.

© 2026 Boyum IT Solutions A/S

Last Maintenance	Maintenance last reported.
Reported quantity	Total quantity yield and defective quantity reported via FDC since the last maintenance.
Manual	Manual entry of quantity since last maintenance.

More functions

Only demand	All tools in need of maintenance.
With reporting	All tools in which quantities were reported.

back to Maintenance orders tab

7.10.1.8 Maintenance orders tab

Internal maintenance can be defined for a tool. In this tab the maintenance orders are displayed which have been created to this tool.

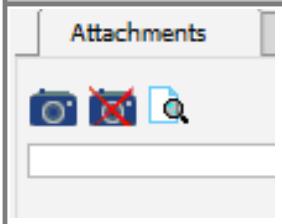
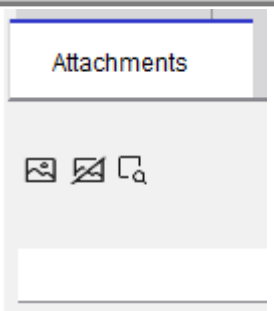
The window "Maintenance master data" is opened if a maintenance order is created and there is no maintenance plan yet. The master data and the maintenance plan can be defined there.

Internal and external maintenance
Maintenance orders

7.10.1.9 Attachments tab

Up to 3 images or documents can be stored per tool.

PATH: Inventory > Tool Administration > Open an entry > "Attachments" tab.

Traditional style	Boyum Style
	

© 2026 Boyum IT Solutions A/S

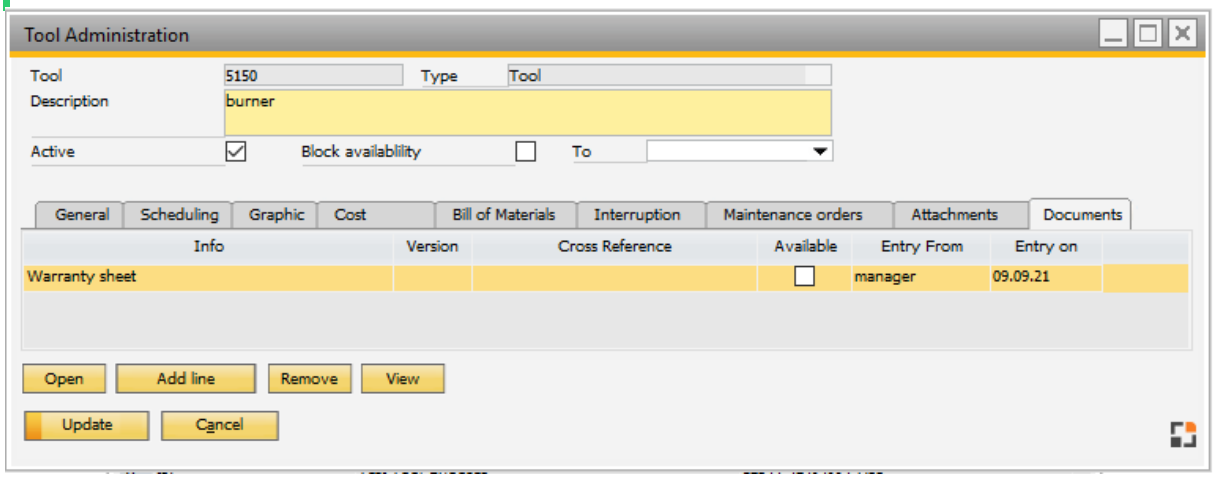
Boyum Style (Beta):

back to costs tab

7.10.1.10 Documents tab

Documents can be stored per tool.
This facilitates locating the tool, among other things; the technical drawing as well as other documents required for a new production can also be stored.

PATH: Inventory > Tool Administration > Open an entry > "Documents" tab.



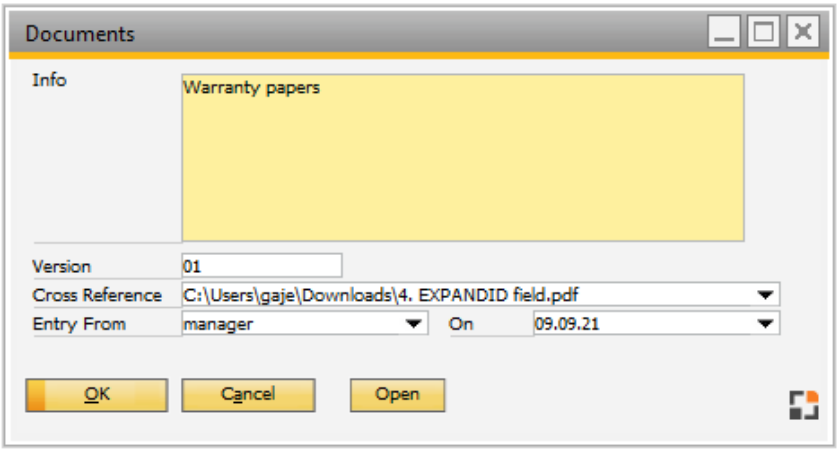
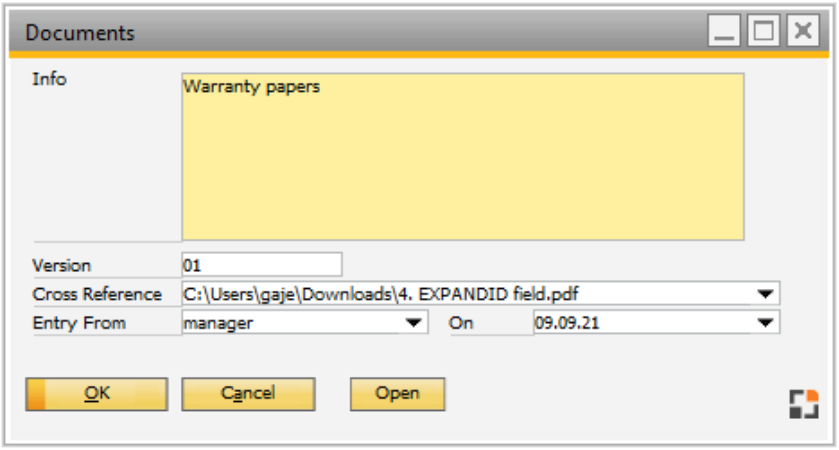
Window stamm_wkz_edit.psr

Field Description

Type	Meaning
Info	Input of text information.
Version	Document version number.
Cross Reference	Directory and file name of the document.
Available	If active, the document exists; if deactivated, the reference is incorrect or the user does not have access to the specified directory.
Entry From	Document was stored by...
Entry on	Document was stored / modified on ...

Buttons

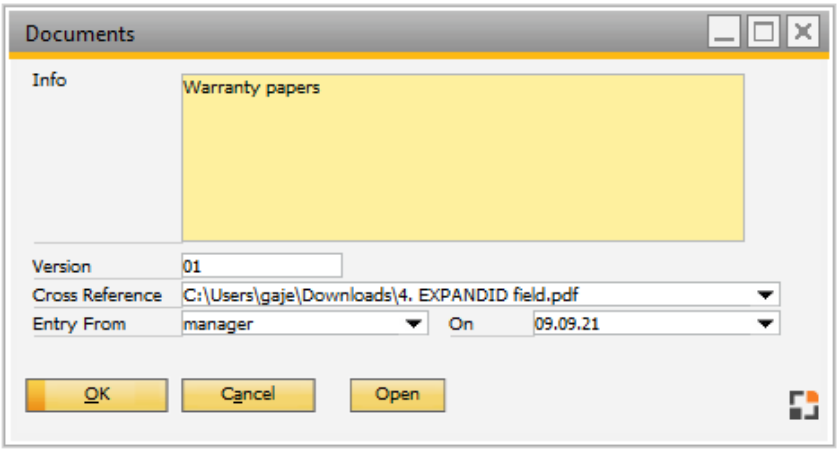
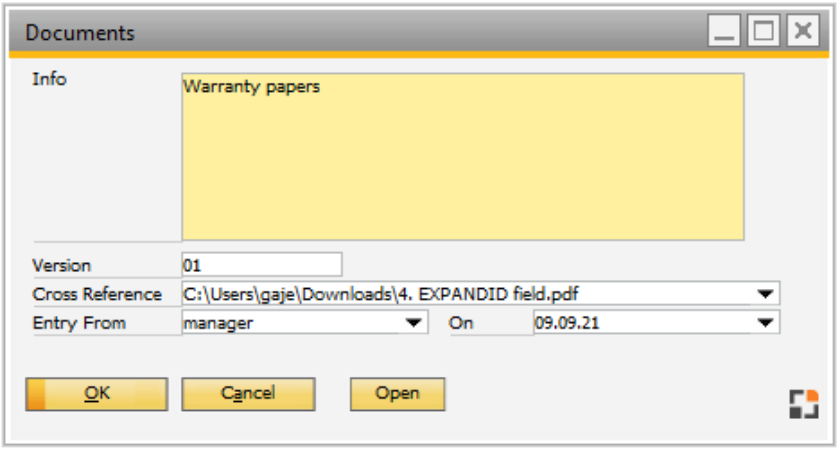
© 2026 Boyum IT Solutions A/S

Type	Meaning
Open	Open selected document line information In this window you can edit several details to store regarding the linked document.  *Window system_ document_ edit.psr*
Add line	Add new document line In this window you can enter the details to store for a new document.  *Window system_ document_ edit.psr*
Remove	Remove selected document line.
View	Opens the Window explorer with the document file location.
Update	Save changes.

back to cost tab

© 2026 Boyum IT Solutions A/S

7.10.1.10.1 Edit Document line

Type	Meaning
Open	Open selected document line information In this window you can edit several details to store regarding the linked document.  *Window system_document_edit.psr*
Add line	Add new document line In this window you can enter the details to store for a new document.  *Window system_document_edit.psr*
Remove	Remove selected document line.
View	Opens the Window explorer with the document file location.
Update	Save changes.

© 2026 Boyum IT Solutions A/S

7.11 Item management

Item management provides options to administer batches and serial numbers during the production life cycle.

Serial Numbers
Batches
Batch tracing

7.11.1 Serial Numbers

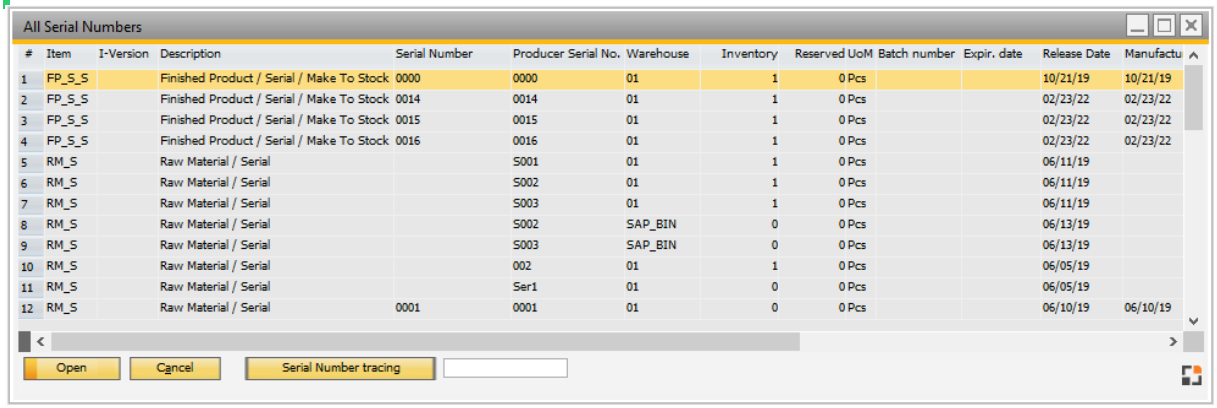
Beas provides extended serial number administration functionality.
Beas enables the user to trace batch and serial number managed items throughout the whole production life cycle. The function also makes it possible to track all transactions related to a batch or serial number.
A list of all generated serial numbers as well as a serial and batch tracing functionality is described in this section.

The following functions are available in the serial number area:
All serial numbers
Serial number tracing

7.11.1.1 All serial numbers

This window lists all serial numbers, and therefore provides quick and easy access to all generated serial numbers.
To see the details of an entry, select the entry and click the Open button. For a description of columns and buttons, ***see*** All Batches and Batch details.

PATH: Inventory > Item management > Item Serial Numbers > All serial numbers



Window mw_osri_browse.psr

© 2026 Boyum IT Solutions A/S

Column descriptions

Column	Description
Item number	Item number
I-Version	Item version
System number	System number
Serial number	Serial number
Description	Item description
Producer Serial No.	Serial number used at production.
Warehouse	Current warehouse
Inventory	Current stock of the bin location
Reserved	Reserved quantity of the bin location (if there are no bin locations, quantity of the warehouse)
Self produced	Check mark shows if the item batch was produced
UoM	Unit of measurement
Batch attribute 1	Free text
Batch attribute 2	Free text
Expir. date	Expiration date
Manufacturing date	Manufacturing date
Release Date	Date of release
Serial Location	Batch/Serial-specific information. Can be used for location description, if bin location management is not used.
Details	Free text
UDF	user-defined fields

Window settings and templates are available.

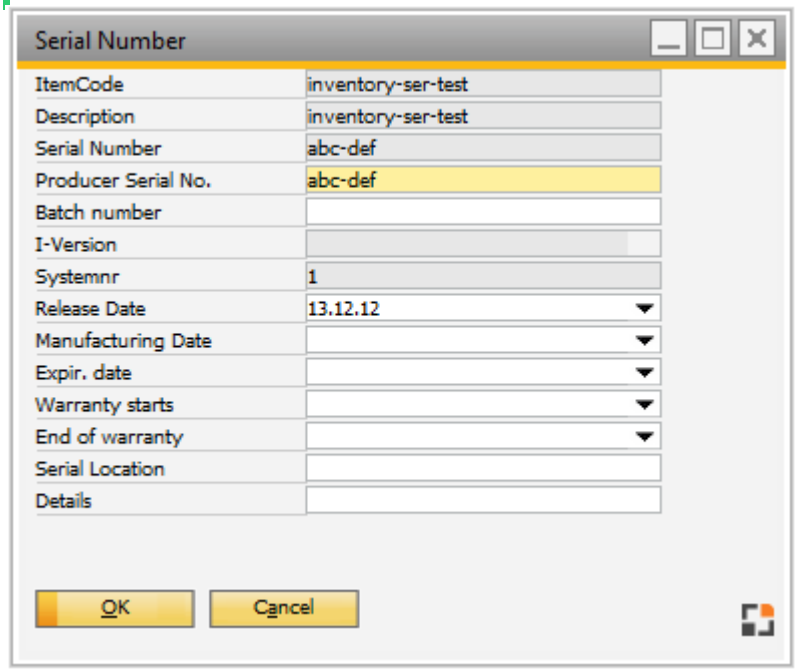
Function	Description
Open	Open serial details.
Cancel	Close window without saving changes.
Inventory history	Open Inventory history.
Serial number tracing	Open Serial number tracing.

© 2026 Boyum IT Solutions A/S

7.11.1.1.1 Serial details

This window displays the details of the selected serial number.

PATH: Inventory > Item management > Item Serial Numbers > All serial numbers > **Open** a serial from the list.



Window mw_osri_edit.psr

Field descriptions

Field	Descriptions
ItemCode	Item code
Description	Description of the serial
Serial Number	Serial number
Producer Serial No.	Special production serial number
Batch number	Batch number
I-Version	Item version
Systemnr	System number
Release Date	Date of release
Manufacturing Date	Date of production
Expir. date	Expiry date
Warranty starts	Starting day of warranty period

© 2026 Boyum IT Solutions A/S

Field	Descriptions
End of warranty	Warranty period ending day
Serial Location	
Details	Free text

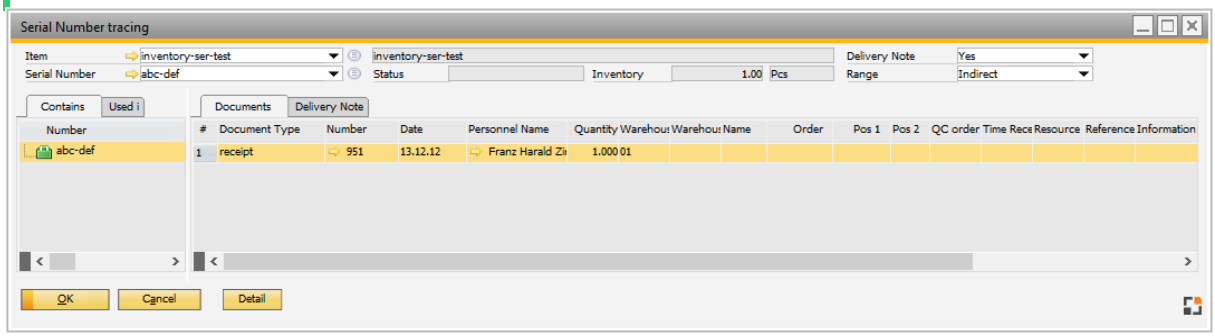
7.11.1.2 Serial number tracing

Serial number tracing and batch tracing are the same functions. Using the serial number tracing function, you can track:

- Which raw material item was used to create a specific semi-finished product, and which finished product includes this semi-finished item
- Whether a batch or serial number was checked against a QC-order
- Whether a production time receipt was reported for an operation linked to a batch or serial number
- Any resource related to an operation which is linked to a batch or serial number.

The tracing functionality is described in detail in Batch Tracing.

PATH: Inventory > Item management > Item Serial Numbers > All serial numbers > **Serial Number tracing** button



Window mw_tracing_master.psr

For more information, also ***see*** WO structure – serial number reservation.

© 2026 Boyum IT Solutions A/S

7.11.2 Batches

Beas provides extended batch management functionality.
Beas enables the user to trace batch and serial number managed items throughout the whole production life cycle. The function also makes it possible to track all transactions related to a batch or serial number.

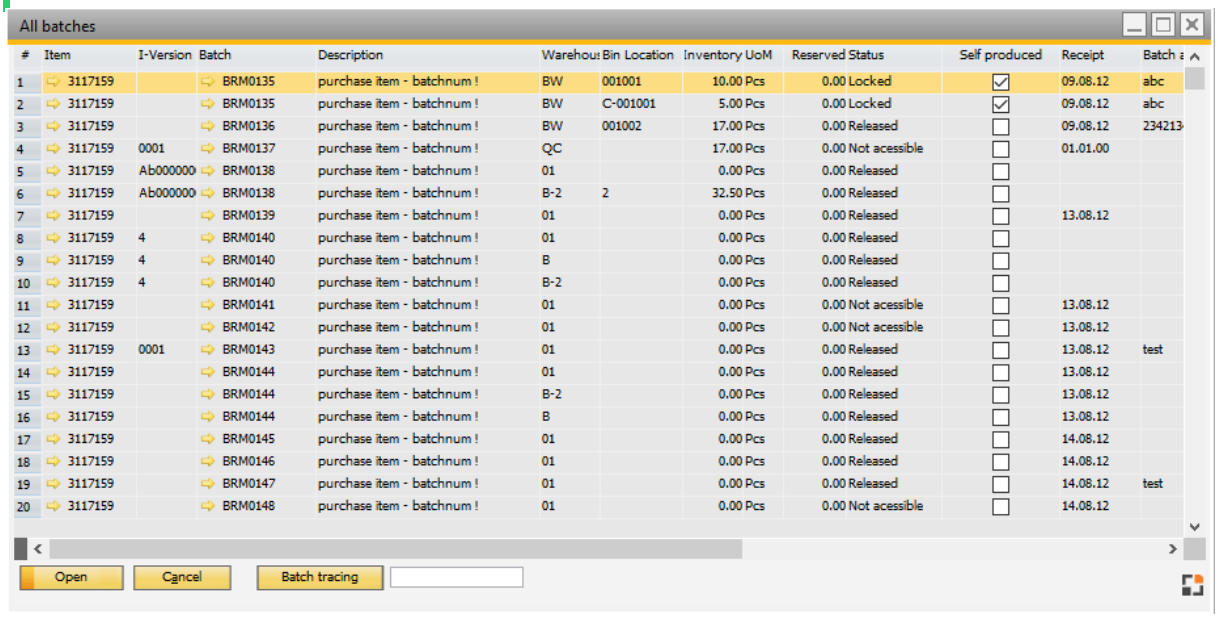
The following functions are available in the batch area:
All Batches
Batch Tracing
Batch generation

Work order batch assignment

7.11.2.1 All Batches

This window lists all batch numbers, and therefore provides quick and easy access to all generated batch numbers.
To see the details of an entry select the entry and click the Open button.

PATH: Inventory > Item management > Batches > All batches



Window mw_oibt_browse.psr

Window settings and Templates are supported.
Use the search field to search for Item number, Description.

© 2026 Boyum IT Solutions A/S

Field descriptions

Column	Description
Item number	Item number
I-Version	Item version
Batch	Batch number
Description	Item description
Warehouse	Current warehouse
Bin location	Bin location code
Status	Not released / Free / Locked / access denied
Inventory	Current stock of the bin location
Reserved	Reserved quantity of the bin location (if there are no bin locations, quantity of the warehouse)
Self produced	Check mark shows if the item batch was produced
UoM	Unit of measurement
Batch attribute 1	Free text
Batch attribute 2	Free text
Expiration date	Expiration date
Manufacturing date	Manufacturing date
Date of permission	Date of permission
Location	Batch specific information. Can be used for location description, if bin location management is not used.
Details	Free text
Customer name	Customer name from first order (filled in from SAP)

Function descriptions

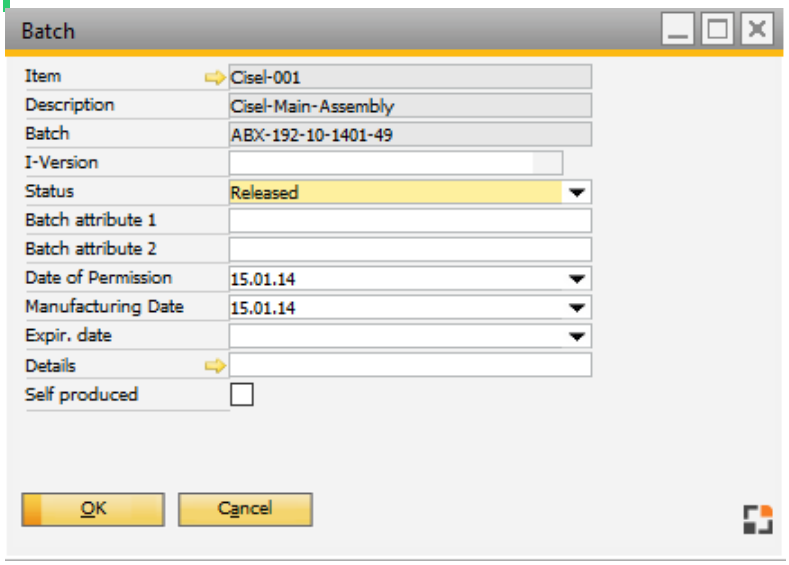
Function	Description
Open	Open batch details.
Cancel	Close window without saving changes.
Inventory history	Open Inventory history.
Batch tracing	Open batch tracing.

© 2026 Boyum IT Solutions A/S

7.11.2.1.1 Batch details

This window displays the details of a selected batch.

PATH: Inventory > Item Management > Batches > Batch details

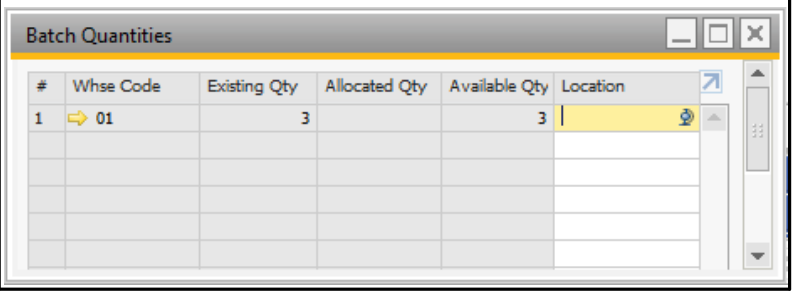


Window: mw_oibt_edit

Field descriptions

Field	Meaning
Item number	Item number
I-Version	Item version
Batch	Batch number
Status	Released / blocked / access denied
UoM	Unit of measurement
Batch attribute 1	Free text
Batch attribute 2	Free text
Expiration date	Expiration date
Manufacturing date	Manufacturing date
Date of permission	Date of permission
Details	Free text
Self produced	Set check mark if the item batch has been produced. If the batch is bought or posted in manually, do not activate the check box.

© 2026 Boyum IT Solutions A/S

Quantities...	The button opens the Batch Quantities window with with quantity information on batches and Warehouse Code. 

UDFs can be set up in the Configuration wizard to display additional information. To edit, Batch-editing rights are required.

7.11.3 Batch Tracing

For certain manufacturers, tracing each material serial or batch number from the moment it is received in the warehouse is an essential requirement for offering a full service to customers. Beas covers this requirement with the batch number tracing and serial numbers tracing functionality that can track each single transaction on a serial or batch number.

The default name of this field is Batch number. However, if a serial number is entered in the field, the name of the field will be displayed as Serial number.

Using batch and serial tracing you can determine the following:

- Which batch or serial number was built in to which batch or serial number
- Which batch or serial number a batch was built into or transformed to
- Whether a batch or serial number was checked against a QC-order
- Whether a production time receipt was reported for an operation linked to a batch or serial number
- Any resource(s) related to an operation which is linked to a batch or serial number
- The delivery note that was created for the delivery of a finished batch or serial number item

The following transactions are considered for batch and serial number tracing:

- Production receipts and issues
- Production backflushing booking processes

© 2026 Boyum IT Solutions A/S

- Batch transfer
- Batch split

A direct batch tracing can only be completed, if the receipt and issue are in a process. This is done for example, at backflushing WO or at a order time receipt - last operation sequence.
Only an indirect assignment is possible if the issue process is separated (Area=indirect). In this case it can only be determined which batches have been used or created for the work order position.

No batch and serial number tracing is available for other types of transactions, for example SAP Business One - Production. The connected transaction is only displayed in the Documents area.

Example:

Assembly A, batch A1 contains assembly B

Assembly B has been created with batch B1 and receives material C

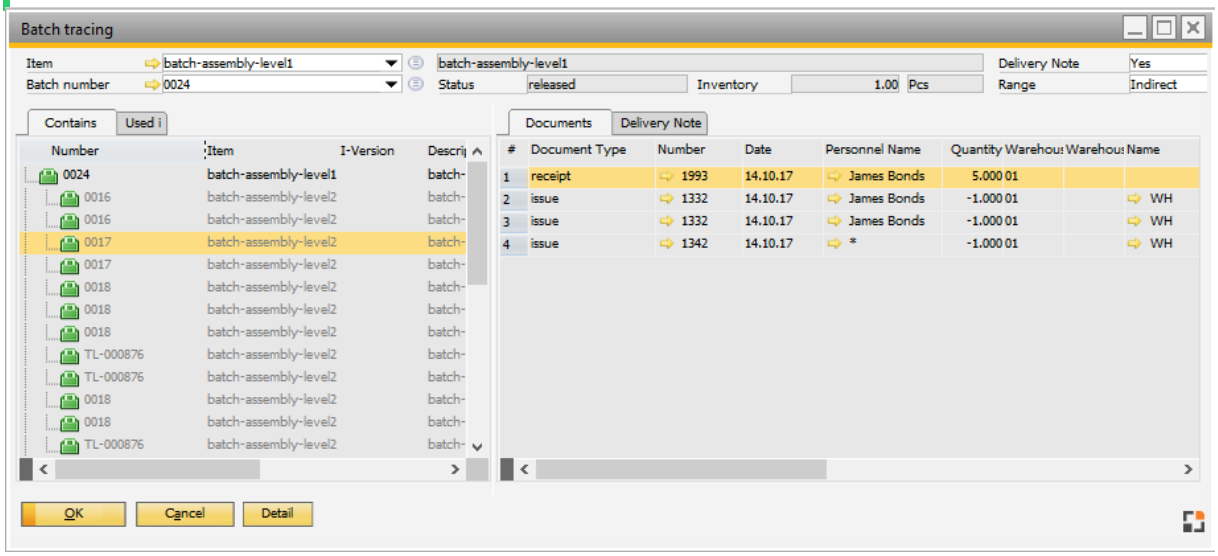
Material C has been booked with batch C1

The following can be seen in the structure display:

```
A1 (A)
|- B1 (B)
|  |- C1 (C)
```

The batch window

PATH: Inventory > Item management > All batches > **Batch tracing** button.



Window mw_tracing_master.psr

Area	Description

© 2026 Boyum IT Solutions A/S

<table>
<tr><td>Header: Item / Batch</td><td>Enter the item batch or item serial number.

Other Fields:

Delivery Notes: Specifies whether delivery note information is displayed related to the selected batch or serial number.

Range: Specifies the range of items and transactions that are be displayed for the specified item.

<table>
<tr><td>Direct</td><td>The system displays all items that are directly linked to the selected batch or serial number.

Following types of transactions are considered:
• Order time receipt - last operation sequence with backflushing material postings and posting-in assembly
• Production backflushing receipt
• Batch transfer
• Split batch</td></tr>
<tr><td>Indirect</td><td>The system displays all items that are indirectly linked to the selected batch or serial number.
This setting can be used, if there are no direct assignments. This checks all bookings, which are assigned to an assembly. This calculation method is very time consuming and should only be used if there is no direct assignment.</td></tr>
<tr><td>All</td><td>The system displays all items that are directly or indirectly linked to the selected batch or serial number.
Use only, if the indirect option does not display all transactions (for example, batch split) and the direct calculation method is not enough.</td></tr>
</table>
</td></tr>
<tr><td>Contains tab</td><td>Structure display for batch and serial number assignments</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

	The selected item is displayed on the Contains tab with an overview of all the batch and serial number items that are linked to this item in the system. If there is a direct assignment (that is, via production - order time receipt, backflushing, batch transfer, and so on) between the batches and serial numbers, then the associated batch or serial number is displayed in black. If there is an indirect connection, the entry is grayed out. Double-clicking on an entry, opens the tracing for the selected batch or serial number. The items are displayed in structure view. The maximum structure depth as well as the quantity of the maximum allowed rows, can be set in the Configuration wizard > Materials management. Each batch and serial number is displayed only once, even if they are used multiple times. This can be configured in the Configuration wizard. Setting every batch number only one time Issues may occur at partial postings where one batch is displayed multiple times, because this option is enabled. In this case "batch-assembly-level2" has been issued twice for the item "batch-assembly-level1". The batch is broken down twice accordingly. **View settings** The structure display area, as well as, the distance between the structure display and the item number can be customized. The color of icons represents the batch status: Green folder = released Blue folder = no access Red folder = blocked
Used in tab	Displays all batches or serial numbers that the searched batch or serial number was used in.

© 2026 Boyum IT Solutions A/S

Documents tab	All transactions and QC-orders are displayed here for the batch or serial number selected in the structure area. Beas document types like batch transfer or batch split are taken into account. The screen can be configured with Window settings.
Delivery Note tab	Delivery notes that the batch or serial number was delivered are displayed in this area. This area shows delivery notes related to all displayed batches.

Field descriptions

Field	Description
Document	Document number.
Type	Document type.
Date	Document date.
Personnel	Personnel who created the document. Important: The employee name is displayed, not the user name. No name is displayed, if working without a terminal, if there is no connection between user name and employee name, or the document was not created in Beas.
Quantity	Posted quantity.
Warehouse	Affected warehouse. In case of transfer, the withdrawal warehouse is displayed.
Warehouse 2	In case of a transfer, the target warehouse is displayed.
Name	Customer name.
Order, Pos 1, Pos 2	Linked work order document: order number, assembly position, BoM position
QC-order	Linked QC-order.
Time receipt	Linked time receipt. Important: This is only displayed for posting documents, created from beas9.0-000 Patch3 and only, if the posting is made together with a time receipt.
Resource	Reported resource in the linked order time receipt.
Reference	Reference number of posting document.
Information	Information, Memo from linked document.

© 2026 Boyum IT Solutions A/S

Work station	The work station, where the document was created. Only displayed, if the document was created by Beas.
Quality Status	Produmex WMS Quality status
LUID	Produmex WMS Logistics Unit ID
SSCC	Produmex WMS Serialized Shipping Container Code
UDF 1–6	Up to 6 user-defined fields to add any customer information
Beas version	The version of Beas that the document was created with.

- In case of low performance

If response times are long, adjust the following settings:

1. Switch the Delivery notes Option to No.
2. Set the Range Option Direct.

- Batch tracer - Report, Export structure information

(beas 9.1 PL: 08)

Beas offers an object, that processes the structure report in the BEAS_REPORTAUSWERTUNG table. A structure report and batch tracing report cannot be created with SQL statements.

Execute the following script commands before the output of the report:

```
object=ue_chargenbuchung=tracerreport=<itemcode>=<distnumber> [=<sysnumber> [=Bereich]]
```

or for the opposite - used in

```
object=ue_chargenbuchung=tracerreport_buildin=<itemcode>=<distnumber> [=<sysnumber> [=Bereich]]
```

Return = Variable `id`

If you do not indicate the sysnumber, it is determined automatically, as long as it is a batch. Serial numbers must be entered.

Area:

all = all connections

bf = only direct connections (Standard)

bfa = directe and indirect connections (very slow)

via

```
select * from "BEAS_REPORTAUSWERTUNG" where "ID"=<id> order by "NR"
```

© 2026 Boyum IT Solutions A/S

The report is generated. After this, the content should be deleted again.

```
delete from "BEAS_REPORTAUSWERTUNG" where "ID"=<id>
```

The following fields are available in the BEAS_REPORTAUSWERTUNG table:

Field	Description
ItemCode	Item number
ItemName	Item designation
distnumber	Batch- or Serial number
pos	System number of the batch- or serial number (SysNumber)
version	A-Version of batch
ag_id	Is is a batch? Y=yes, N=no
aplatz_id	Is is a serial number? Y=yes, N=no
level	Level
bitmapname	Depending on the status, a bitmap is created
pos_text	Status - Text in current user language
colorid	Status of the row black(0/0/0) = direct connection grey(128/128/128) = indirect connection
Nr	Sorting
id	Everything linked to this ID, belongs to this report

Window: mw_tracing_master
beas Version 9.0-000-003-013

see

serial number tracing
Work order batch assign

© 2026 Boyum IT Solutions A/S

8 Production

This chapter describes the production module and all related functions. It is the largest and central module of Beas.

Important chapters:

Resources

Work order

Post calculation

External production

Introduction

Quality control

Variant production

Factory data capture

Production Cockpit

AI Assistant

Using

Webinar Production complete process

Work order validation reporting, time receipts (Webinar, 2017/8)

Four different ways to create a work order in Beas

Beas Production Cockpit (2025.06)

Webinar: Adjustment user mistakes at the work orders 10/2017

Resevation, Issue,Receipt

Reservation window

Work with warehouse rules

Work order Batch assign. Assign Batch numbers from an BOM Position to finish Product.

Beas cost determination, describe the valuation method from Beas work order system

- Customization

  Create documents

  Create work order with BeasScript

  Create Issue document with BeasScript

  Work with templates

© 2026 Boyum IT Solutions A/S

Time receipt Administration: Insert new fields with Template

Beas terminal: work order logon with template

Main Table Structure

Data structure work order

View	Beas Service Layer	Table	Description and Link
BEASV_WORKORDER	Workorder	BEAS_FTHAUPT	Work order, Primary: BELNR_ID
-- BEASV_WORKORDER_POS	WorkorderPos	BEAS_FTPOS	Work order position, Primary: BELNR_ID,BELPOS_ID
----- BEASV_WORKORDER_BOM	WorkorderBom	BEAS_FTSTL	Work order Bill of material, Primary: BELNR_ID,BELPOS_ID,POS_ID
----- BEASV_WORKORDER_ROUTING	WorkorderRouting WorkorderRoutingParallel	BEAS_FTAPL BEAS_FTAPL_WKZ	Work order Routing, Primary: BELNR_ID,BELPOS_ID,POS_ID Parallel resource: BELNR_ID,BELPOS_ID,POS_ID,WKZ POS_ID
--------- BEASV_RESERVED_TIME		BEAS_RESOURCEN	Reservied times for a Resource
--------- BEAS_ARBZEIT	TimeReceipt	BEAS_ARBZEIT	Time Receipts

8.1 Resources

See all available resources and the current status. Use the buttons below to manage resources.

© 2026 Boyum IT Solutions A/S

Resource Groups

All resources

Edit resource

Due to the grouping function and the visual display of resources, no window or template settings are available in this window.

The list is sorted by resource group + work place ID

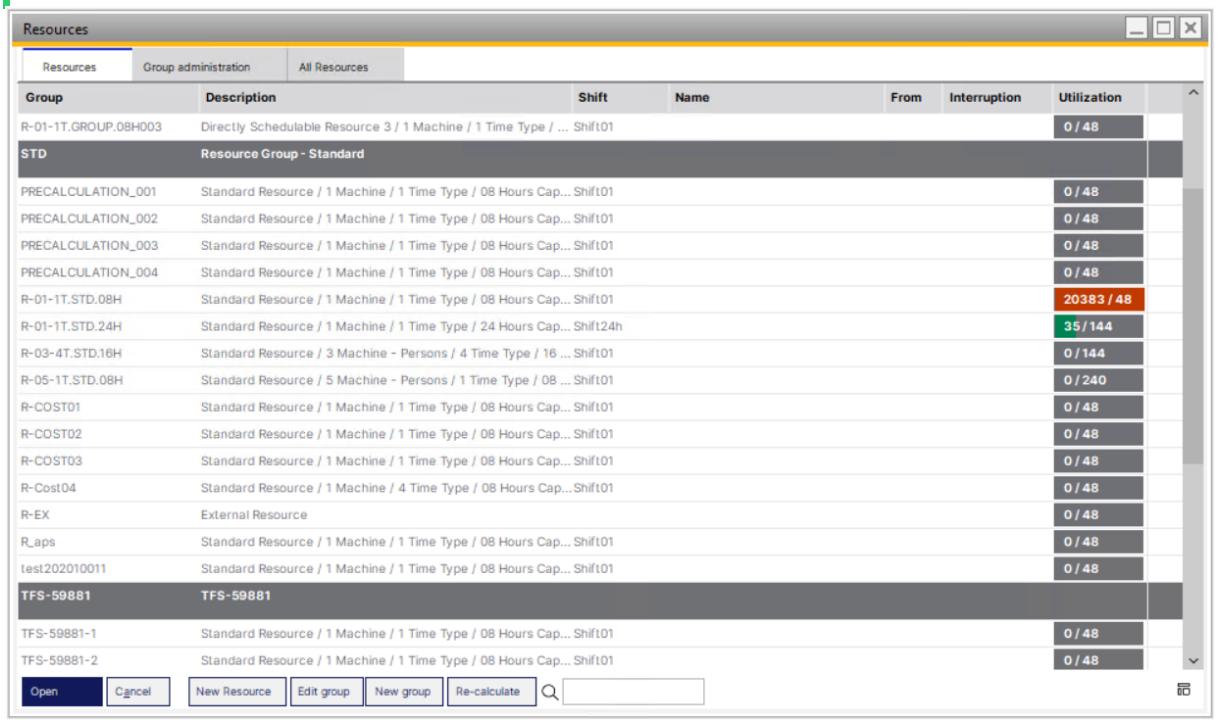
Resources within the resource group are displayed sorted by resource optimization.

Note: Resource optimization for the resource group has to be enabled for this feature. (Resource optimization)

PATH: Resources > Resource Master Data.

or

PATH: Resources > Resources.



Window stamm_arbplatzgruppe_browse.psr

Columns

Field	Description
Group	Name of the resource group.
Description	Free text.

© 2026 Boyum IT Solutions A/S

Shift	Assigned shift from Shift schedule for resources.
Name	Employee.
From	Logged in since.
Interruption	Type of interruption.
Utilization	Displays planned capacity gray (according to resource scheduling) and currently dispatched capacity in green. The covered time period in utilization column is set up in: **Configuration wizard > Production > Display > Structure view > Dispatching index: number of days to be considered.**

Functions

Function	Description
Open	Opens master data of the selected resource: Edit resource.
Cancel	Closes the window.
New resource	Add a new resource.
Edit group	Opens the "Edit resource group" window.
New group	Add a new resource group.
Re-calculate	Recalculates the utilization.
Dispatches	- right-click option. Opens the Dispatches window .
Graphic utilization display	- right-click option. Opens graphic utilization display for the currently selected resource.
Resources cost rates	Define cost rates.

See:

Resources (Concept)

Dispatches

Resource shift schedule

Edit resource

Graphic utilization display

Resource optimization

© 2026 Boyum IT Solutions A/S

8.1.1 Resource Groups

For different applications Beas offers several types of resource groups:

- Simple resource group: consists of multiple machines/persons. Only the group as a whole is scheduled, not their parts.
- Resource domain: different resources not summarized to a group for computing capacities.
- Machine group: capacity is summarized, but their parts are scheduled separately. For this group, a resource is defined to represent this group.

Training unit resource group

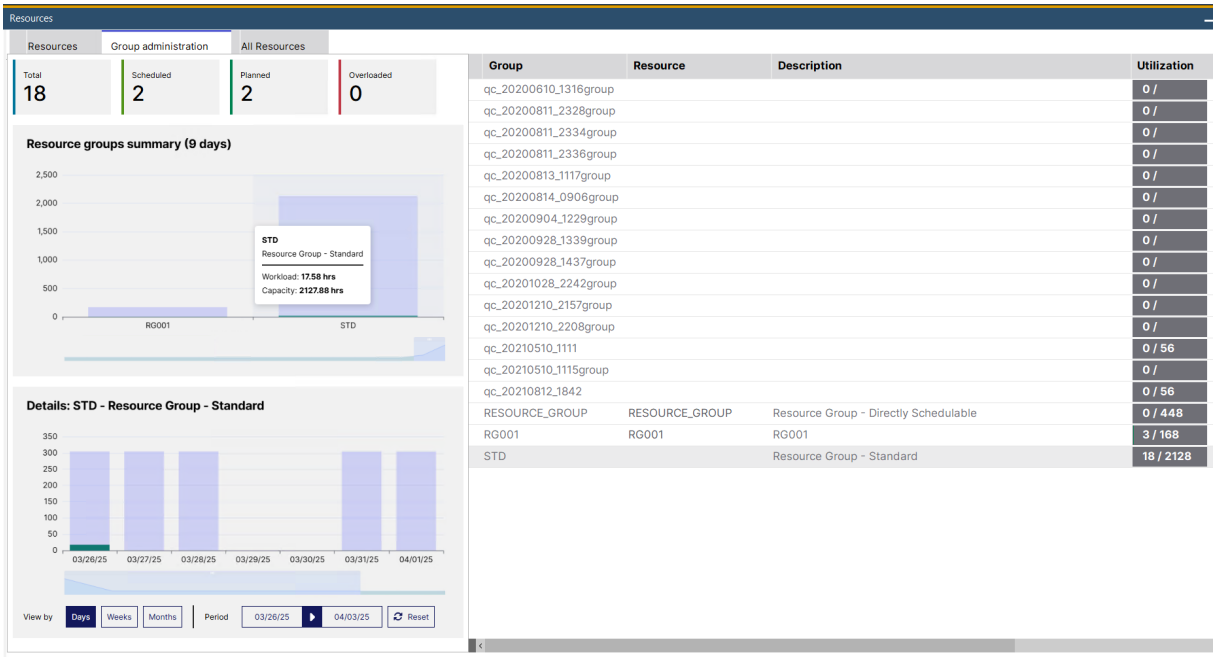
See Alternative Resources

8.1.1.1 Resources group administration

All existing resources groups are displayed with their current utilization.

Select a group and right-click the **Open** button to open, or the **Add** button to create a resource group.

PATH: Production > Resources



Window stamm_arbplatzgruppe_browse2.psr

Columns

Field	Description

© 2026 Boyum IT Solutions A/S

Group	Name of the resource group.
Resource	Displays the linked group resource used for scheduling the group.
Description	Description.
Utilization	Current utilization of the resource group.
Udf1–4	User definable fields.

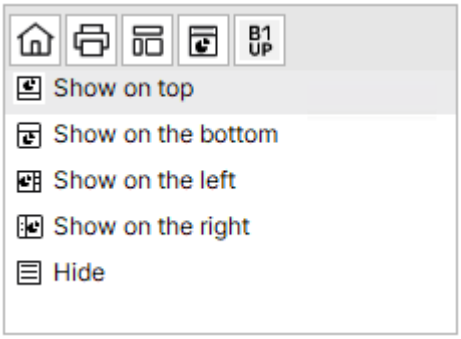
Graphical display

The graphical display provides a summary of all Resource utilization and the relevant details of a selected resource in a chart view.

You can dynamically set the window structure of your preference by selecting the placement of the graphical display in the contextual menu. The appearance is user-dependent and can be set in each screen individually.

Adjust display size by Ctrl + Scroll up/down.

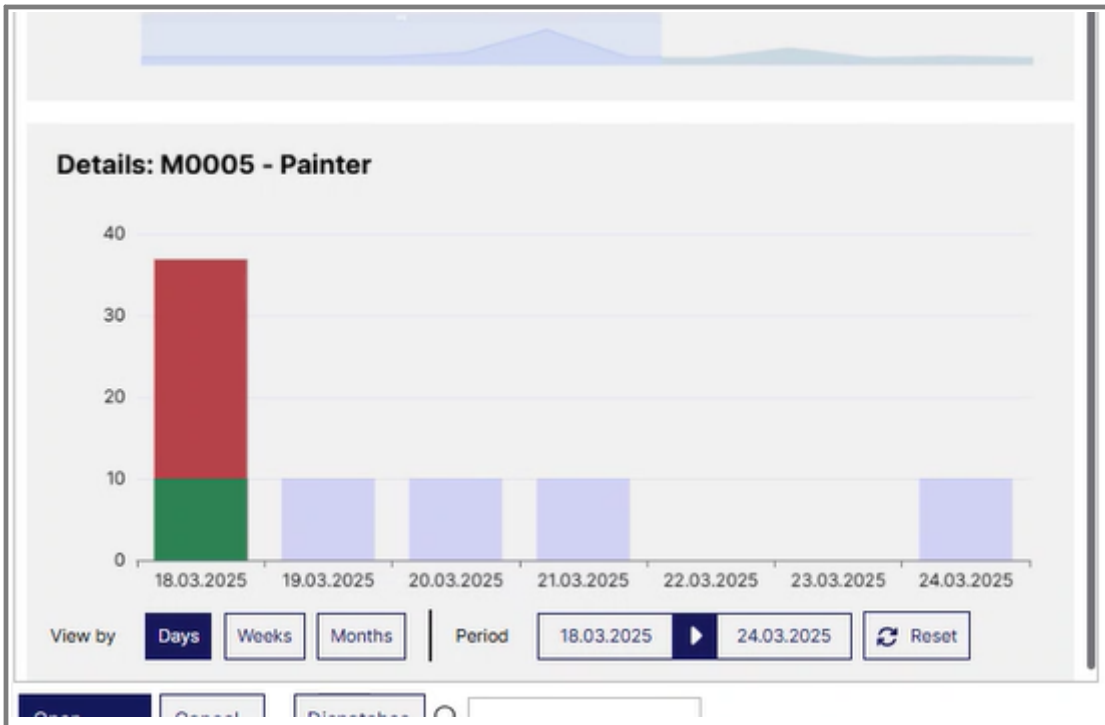
Graphical Contextual menu



Menu entry	Description
Show on top	Places the graphical display on the top of the window.
Show on bottom	Places the graphical display at the bottom of the window.
Show on the left	Places the graphical display on the left side of the window.
Show on the right	Places the graphical display on the right side of the window.
Hide	Hides the graphical display.

Color codes

© 2026 Boyum IT Solutions A/S



Light blue: unused, planned capacity on a specific date

Green: workload

Red: Overloaded capacity - number of hours over the planned capacity

Resource groups summary (XXX days)	Details: XXX Resource Group...
Utilization hours / Resource Group The title of the graph (XXX days) indicates the number of days set as dispatching index for the Resources. The graphics display the hours of utilization per resource groups.	Workload / Time This graphics section displays the capacity and workload (number of hours on the "Y" axis) of one, selected resource group under a defined time range ("X" axis). You can select a resource group to be viewed here for a period in the numbered list or by clicking on it in the "Resource groups summary" chart.

Controls	Description
Total	The total number of resource groups. Click on it to see the visualization in the "Resources groups summary" graph.

Tool Tip Description

© 2026 Boyum IT Solutions A/S

Resource groups summary (XXX days)

Controls	Description
Scheduled	The number of resource groups scheduled in work orders.
Planned	The number of resource groups used in production.
Overloaded	When the "Workload" exceeds the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Slider bar	Move the slider bar under the graph to show more/fewer resource columns.
Right-click menu	- Open resource group: Open the Resource group master data of the selected resource group.

When hovering over a column in the chart, a tool tip is displayed (***see*** image above) with all resource group utilization information in hours.

Tool Tip Description

Tool tip entry	Description
Name of Resource	The name of the viewed resource group
Description	Description of the resource group
Overloaded	When the "Workload" exceeds the dispatching index of a resource group, the system

Details: XXX Resource Group...

Tool tip entry	Description
Date / Week 01-52 / Month 01-12	The date / Time range being viewed.
Overloaded	When the "Workload" exceeds the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the selected resource.
Capacity	The available capacity of the selected resource in hours.

Controls

Control	Description
View by	
Days / Weeks / Months	Select the unit of time range to view utilization details of the resource group.
Period	Select a start- and end date for the period that you wish to view.
Reset	Click this button to set the viewing period to the default starting date: today
Slider bar	The slider bar below the X axis shows the total time of the selected period to refine/re-adjust time selection or easily

© 2026 Boyum IT Solutions A/S

Resource groups summary (XXX days)	Details: XXX Resource Group...

Tool tip entry	Description
	indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the selected resource group.
Capacity	The available capacity of the selected resource group in hours.

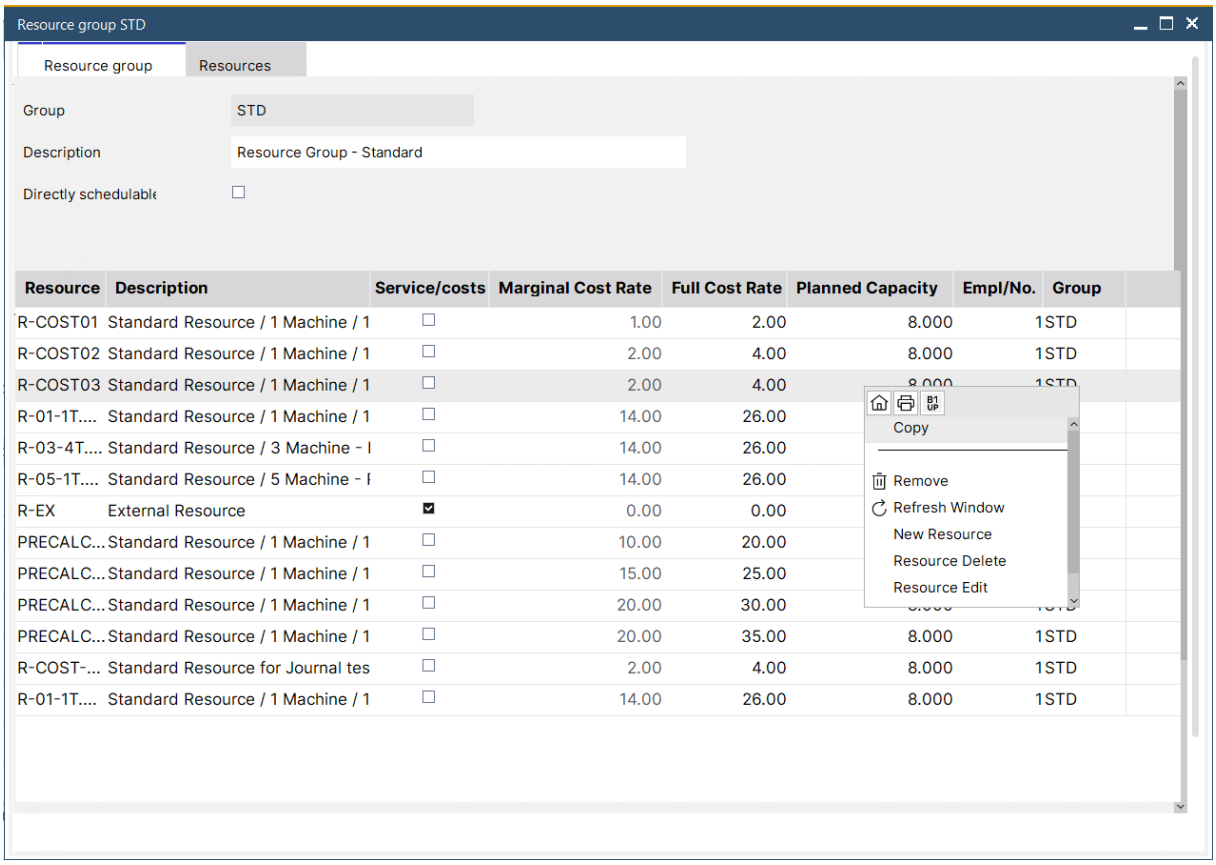
Control	Description
	jump to any part of a longer period.

back to Resources

8.1.1.1.1 Edit resource group

PATH: Resources > Resource Master Data> Select a Resource > **Edit Group** button.

© 2026 Boyum IT Solutions A/S



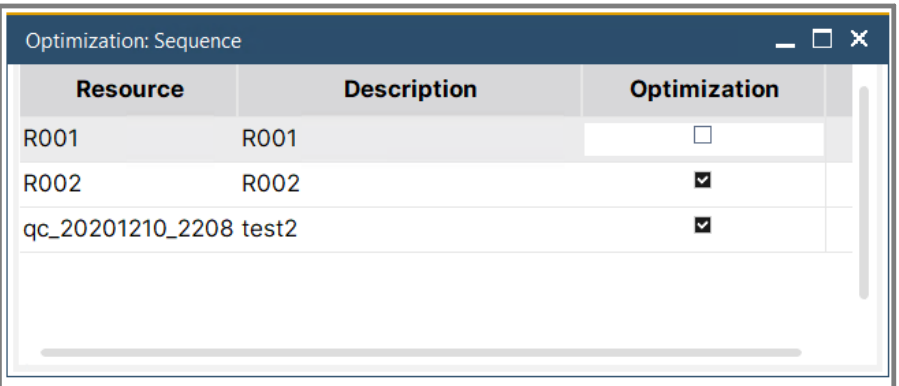
Window stamm_arbplatzgruppe_edit.psr

Resource group Tab

Header

Field	Description
Group	Group ID.
Description	Description of the group.
Directly schedulable	If enabled, each resource of this group can be scheduled separately. You can assign an ID to the scheduling.
Automatic optimization	If enabled, automatic optimization is used for the pre-selected resources of the resource group. Double-click the / icon to open the Optimization: Sequence window and select the resources to be optimized:

© 2026 Boyum IT Solutions A/S

	 *Window stamm_arbplatz_optimize.psr*
With ID	Only visible if "Directly schedulable" field is enabled. ID of the resource that is linked to the current Resource Group.

Functions:

Field	Description
Remove	Delete selected resource group from the list.
Refresh window	Update window after changes.
Set up Optimization	Opens the Optimization: Sequence window.
New Resource	Opens the Resource Create window.
Resource Delete	Opens the Resource Master Data window for the selected resource to delete. Deletion is prompted.
Resource Edit	Opens the Resource Master Data window for the selected resource.

Resources tab:

All resources of the group are displayed with corresponding cost rates.

Field	Description
Resource	Number of the resource.
Description	Description of the resource.
Service/cost	Enable to consider the respective resource in scheduling.
Full cost rate	Full cost rate deposited in master data of the resource.
Marginal cost rate	Marginal cost rate deposited in master data of the resource.
Planned capacity	According to factory calendar (hours per day).
Empl./No.	Number of machines/ employees.
Group	Group ID.

© 2026 Boyum IT Solutions A/S

Graphic sub-Tab

8.1.1.1.1.1 Resources tab

This tab displays the browse window for Resources. Here you can edit the resources of a Resource group.

PATH: Resources > Resource Master Data> Select a Resource > right-click: **Edit Group** > Resources tab.

For detailed field descriptions ***see*** All resources.

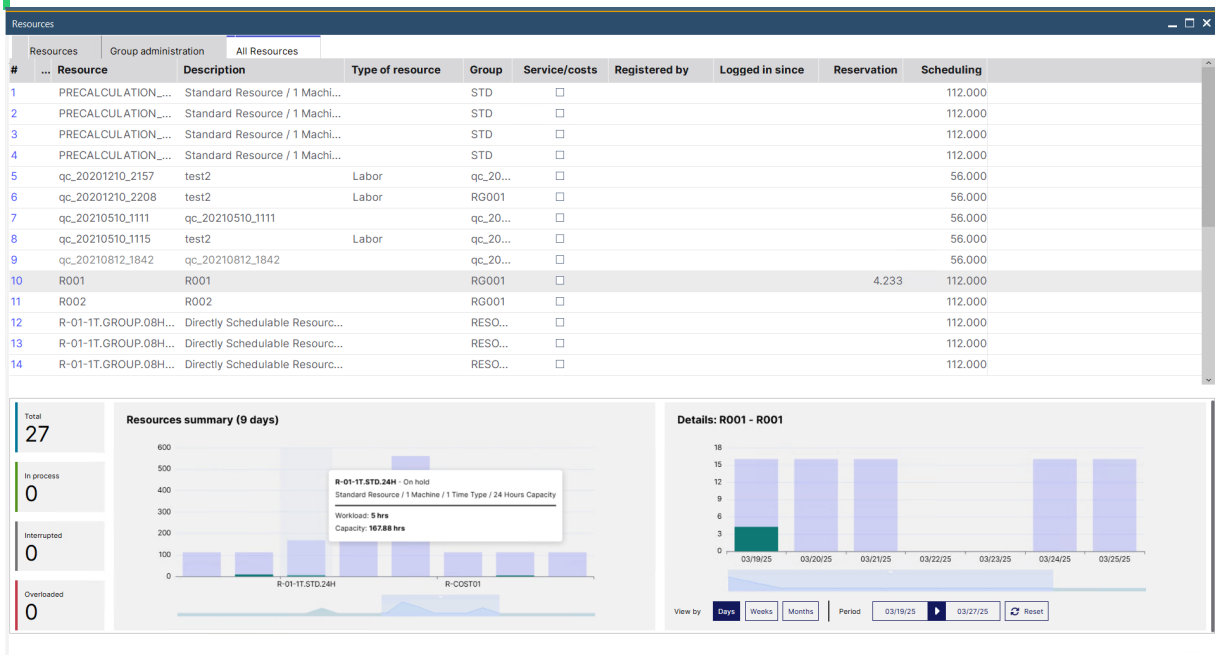
8.1.2 All resources

All resources are displayed in this tab. They are shown independent of their group association and can be edited directly. The list can be set up dynamically – (window settings), templates are supported.

PATH: Resources > Resource Master Data > "All Resources" tab.

or

PATH: Resources > Resources > "All Resources" tab.



Window stamm_arbplatz_browse.psr

© 2026 Boyum IT Solutions A/S

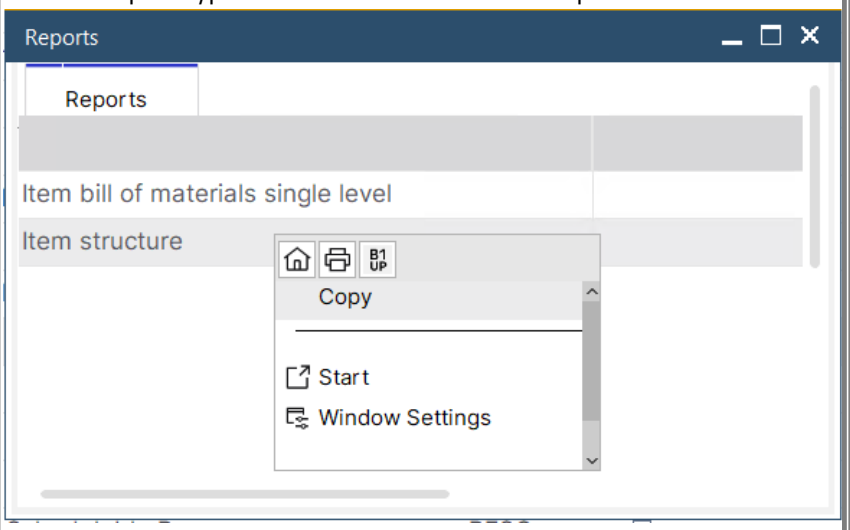
Field descriptions

Field	Meaning
Resource	Unique ID.
Description	Long description of the resource.
Type of resource	Free text field.
Group	Name of the group to which this resource belongs.
Service / costs	External resource / check box.
Registered by	Name of the employee registered for this resource.
Logged in since	Date and Time of the current logon to the resource..
Reservation	Reserved, scheduled times for the next days. Reservations from the past are taken into account. ***See*** Configuration wizard: consider number of days.
Scheduling	Total planned capacity for the next days. ***See*** Configuration wizard: consider number of days.

Functions

Button/Right-click menu	Description
Open	Open current resource .
Cancel	Close window without saving changes.
Search	Search function also in dedicated field in the bottom window section.
Edit group	Edit selected resource group. The button opens the Resource Master Data for the selected resource.
Refresh window	Refresh window for latest changes.
Add	Create new Resource.
Remove	Delete selected resource(s).
Reports	Opens the Reports window for this resource.

© 2026 Boyum IT Solutions A/S

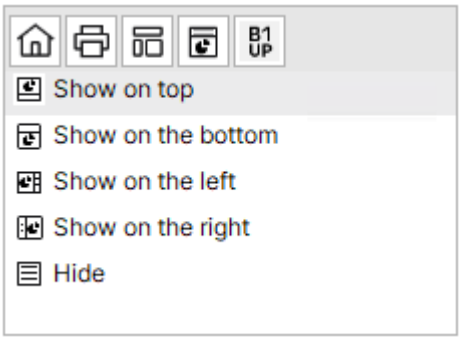
	Select a report type and click **Start** to run the report.  *Window report_makro_start.psr*
Productivity Evaluation	Opens the Productivity evaluation window.
Duplicate	Copy selected resource to create a new resource. Clicking the button will open the Resource Master Data updated with the new resource name that has been provided in the "Enter new ID" dialog box.
Dispatches	- Right-click function. Display dispatches for the selected resource ***see*** dispatches Multiple selection is possible. In this case, all dispatches of all marked entries are displayed.

Graphical display

The graphical display provides a summary of all Resource utilization and the relevant details of a selected resource in a chart view.
You can dynamically set the window structure of your preference by selecting the placement of the graphical display in the contextual menu. The appearance is user-dependent and can be set in each screen individually.
Adjust display size by Ctrl + Scroll up/down.

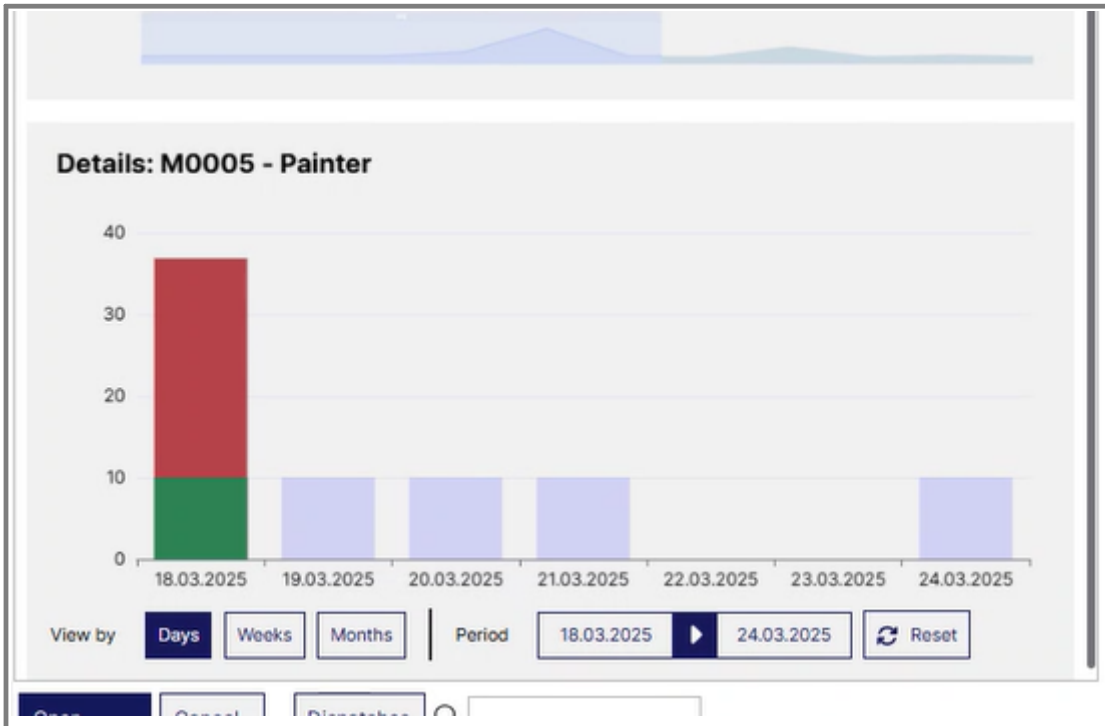
Graphical Contextual menu

© 2026 Boyum IT Solutions A/S



Menu entry	Description
Show on top	Places the graphical display on the top of the window.
Show on bottom	Places the graphical display at the bottom of the window.
Show on the left	Places the graphical display on the left side of the window.
Show on the right	Places the graphical display on the right side of the window.
Hide	Hides the graphical display.

Color codes



Light blue: unused, planned capacity on a specific date

Green: workload

© 2026 Boyum IT Solutions A/S

Red: Overloaded capacity - number of hours over the planned capacity

Graph Description

Resources summary (XXX days)	Details: XXX Resource ...
Utilization hours / Resource The title of the graph (XXX days) indicates the number of days set as dispatching index for the Resource. The graphics display the hours of utilization per resource.	Workload / Time This graphics section displays the capacity and workload (number of hours on the "Y" axis) of one, selected resource under a defined time range ("X" axis). You can select a resource to be viewed here for a period in the numbered list or by clicking on it in the "Resources summary" chart.

Filters

Filter	Description
Total	The total number of resources. Click on it to see the visualization in the "Resources summary" graph.
In process	The number of resources that are in progress of production (clocked in).
Interrupted	The number of active (started) interruptions.
Overloaded	When the "Workload" exceeds 90% of the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).

Controls

Control	Description
Slider bar	Move the slider bar under the graph to show more/fewer resource columns.
Right-	Right-click a column in the graph

Tool Tip Description

Tool tip entry	Description
Date / Week 01-52 / Month 01-12	The date / Time range being viewed.
Overloaded	When the "Workload" exceeds 90% of the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the selected resource.
Capacity	The available capacity of the selected resource in hours.

Controls

Control	Description
View by	
Days / Weeks /	Select the unit of time range to

© 2026 Boyum IT Solutions A/S

Resources summary (XXX days)

Control	Description
click menu	to access and edit Resource related information: - Open resource: Open the Resource master of the selected resource. - Dispatches: Open the dispatches window.

When hovering over a column in the chart, a tool tip is displayed (***see*** image above) with all resource utilization information in hours.

Tool Tip Description

Tool tip entry	Description
* *Name of Resource** — Status	The name of the viewed resource + its current status: e.g.: "Resource_01 - *In progress*" **Status types:** - Idle: The resource is currently not in use. - In progress: The resource is currently in use. - Interrupted: Interruption has been started for the resource.
Description	Description of the resource

Details: XXX Resource ...

Control	Description
Months	view utilization details of the resource.
Period	Select a start- and end date for the period that you wish to view.
Reset	Click this button to set the viewing period to the default starting date: today
Slider bar	The slider bar below the X axis shows the total time of the selected period to refine/re-adjust time selection or easily jump to any part of a longer period.

© 2026 Boyum IT Solutions A/S

Resources summary (XXX days)	Details: XXX Resource ...

Tool tip entry	Description
Overloaded	When the "Workload" exceeds 90% of the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the selected resource.
Capacity	The available capacity of the selected resource in hours.

back to Resources

see

Resource group

Window settings

Dispatches

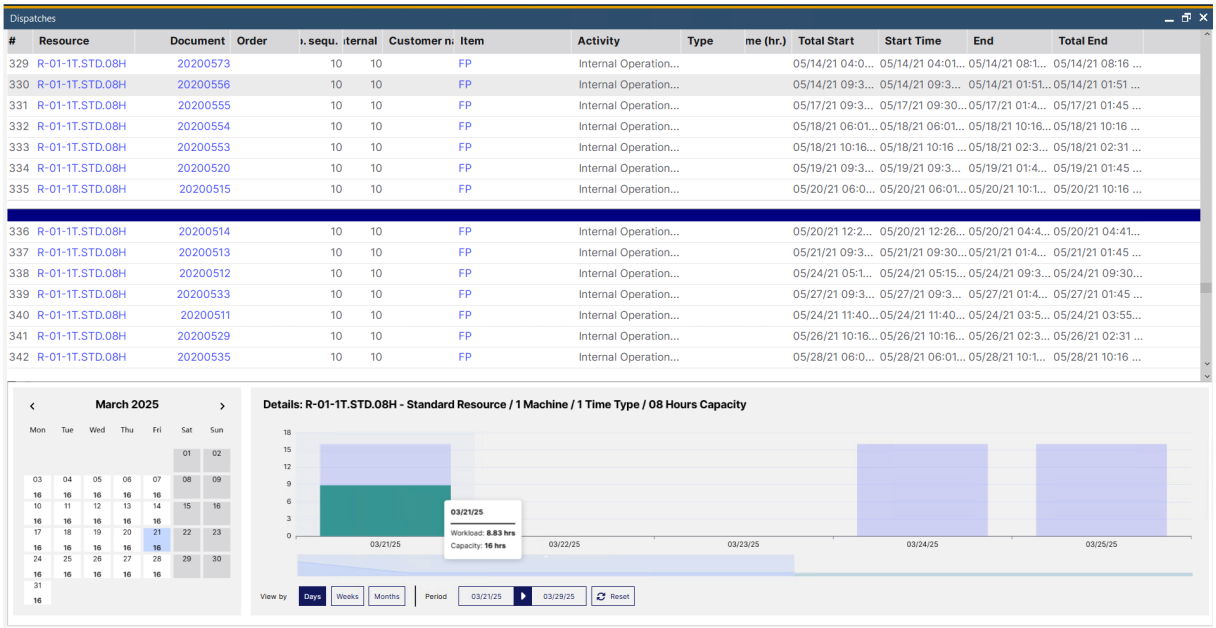
Templates

8.1.2.1 Dispatches

In this window all reserved times are displayed for one or several resources.

PATH: ***see*** All resources tab.

© 2026 Boyum IT Solutions A/S



Window stamm_arbplatz_einlastung_kom.psr

The list can be set up dynamically. window settings, templates are supported.
If the respective fields are activated, you can display e.g. the already reported and open quantity.

Resource groups:
For a resource group, dispatches of the group and of all single resources of that group are displayed.

Display several resources:
Displaying several resources, they can be grouped. Separator bars can be displayed or hidden.

Interruptions
Interruptions are also displayed. These have the document number 0. No interruption can be calculated because interruptions have no shift definitions. That is why the indicated time is always 0.

Result information
This list displays the result of capacity planning.
Time is the current reserved time for this work position. If no time was reserved, the column is empty.

Functions

© 2026 Boyum IT Solutions A/S

Button	Description
Detail	Detail view of all dispatches including interruption times. Only the currently selected resource is displayed.
Graphical view	Graphical utilization display.
Group bar	Switch on / off the separator bar.

see

Resources

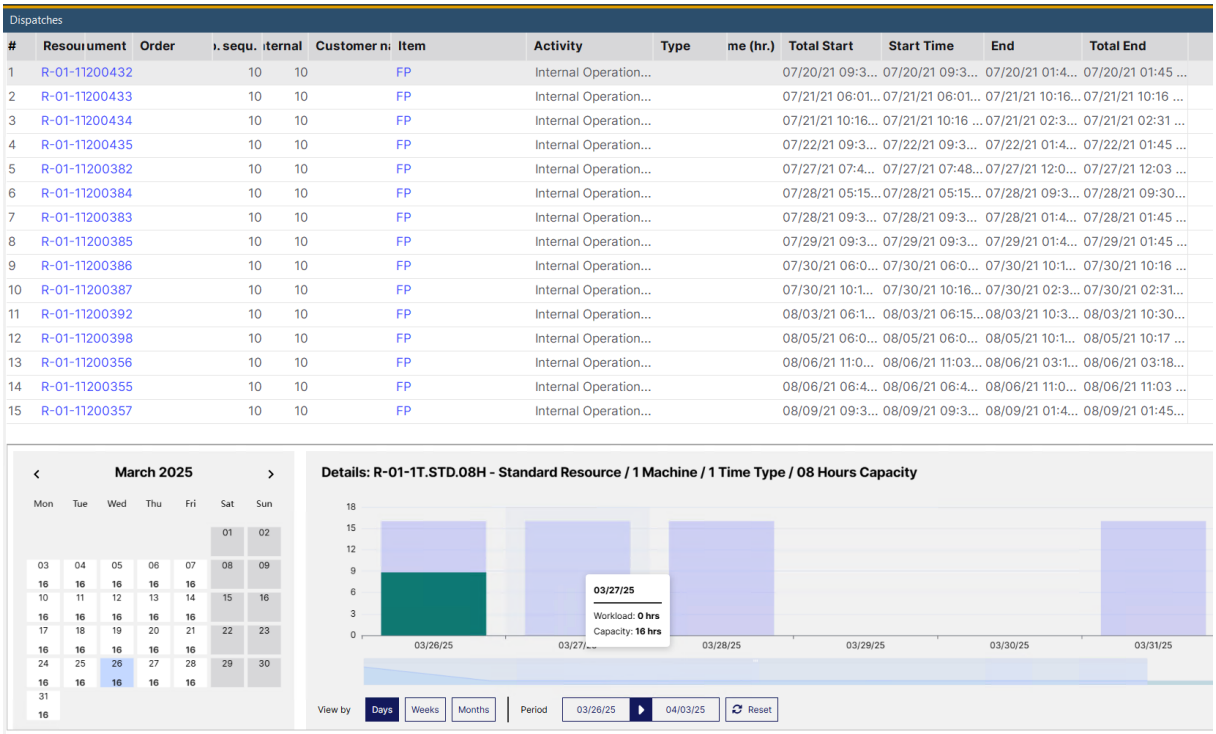
All resources

Resource groups

APS Planning view

8.1.2.1.1 Dispatches detail

Single time reservations of a resource are displayed, grouped by day. In contrast to the dispatches window, not only start/end end time, but also all interruptions are displayed. (a reason may be a reservation over several days, or a dispatch optimized for lead time). Other fields are available in Window settings.



Window stamm_arbplatz_einlastungen_extra.psr

© 2026 Boyum IT Solutions A/S

Field	Meaning
Document	General definition of resource.
Order	Work order number.
Position	Position in document.
Op. Sequ.	Operation position.
Resource	Resource ID.
From	Start time.
To	End time.
Time hrs	Duration.
Item	Item number.
Designation	Item designation.
Quantity	Quantity to be produced.
I-Version	Item version.
Drawing number	Drawing number.

Graphical display

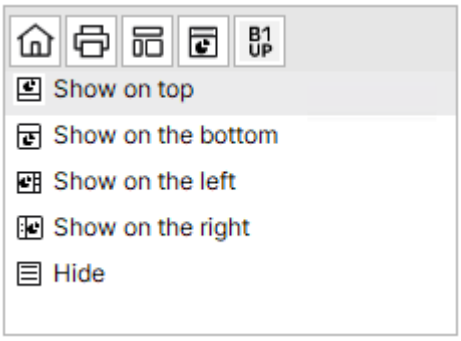
The graphical display provides a summary of all Resource utilization and the relevant details of a selected resource in a chart view.
You can dynamically set the window structure of your preference by selecting the placement of the graphical display in the contextual menu. The appearance is user-dependent and can be set in each screen individually.
Adjust display size by Ctrl + Scroll up/down.

- Selection list

  Select resource or resource group from the list to be displayed.

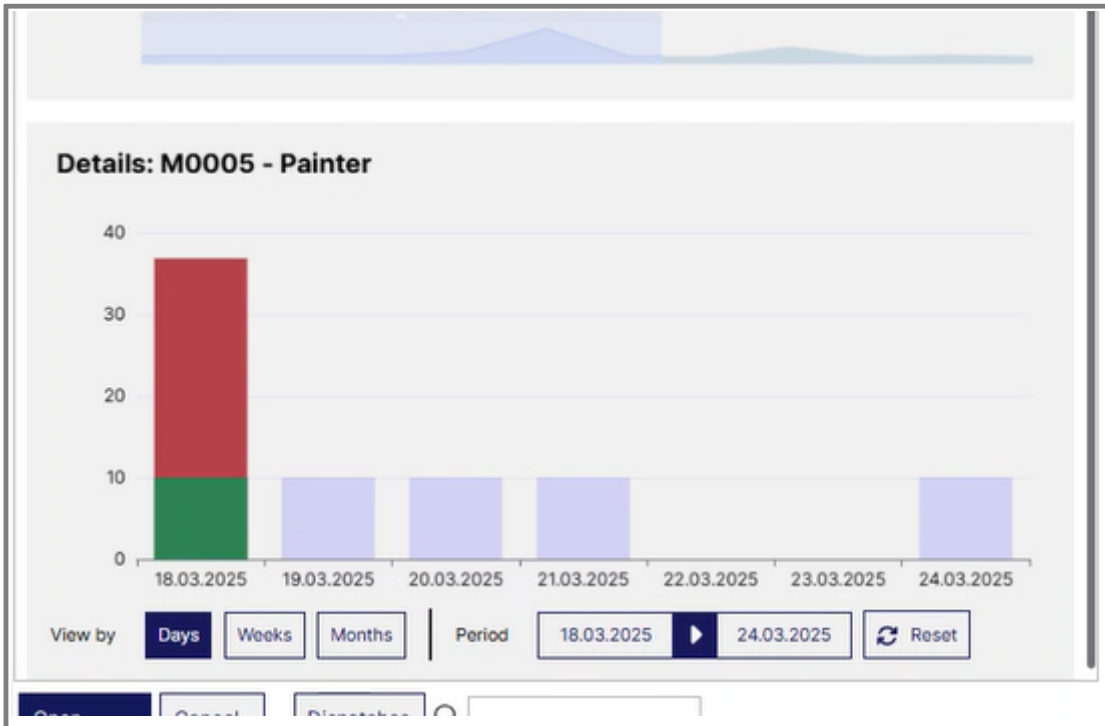
Graphical Contextual menu

© 2026 Boyum IT Solutions A/S



Menu entry	Description
Show on top	Places the graphical display on the top of the window.
Show on bottom	Places the graphical display at the bottom of the window.
Show on the left	Places the graphical display on the left side of the window.
Show on the right	Places the graphical display on the right side of the window.
Hide	Hides the graphical display.

Color codes



Light blue: unused, planned capacity on a specific date

Green: workload

© 2026 Boyum IT Solutions A/S

Red: Overloaded capacity - number of hours over the planned capacity

Select a day in the calendar view and it visualizes the details of resource utilization (hours/period) in the "Details" graph.

Month - Year (Calendar view)	Details: Resource XXX
The calendar visualization provides a monthly overview at resource utilization. The number of resource capacity hours are indicated under the date numbers. Color codes and tool tips assist usability. **Color codes of calendar days:** • Grey: Non-labor day (no capacity or holiday) • Red: Day with overloaded capacity • White: Any day with capacity planning • Blue: the currently selected day Hovering over a calendar day shows a tool tip on the relevant details of resource utilization: 	Shows the utilization information of a resource on a specific day / period. **Tool Tip Description** **Tool tip entry** / **Description** Date / Week 01-52 / Month 01-12 — The date / Time range being viewed. Overloaded — When the "Workload" exceeds 90% of the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above). Workload — Scheduled hours for the selected resource. Capacity — The available capacity of the selected resource in hours. **Controls** **Control** / **Description** **View by** Days / Weeks / Months — Select the unit of time range to view utilization details of the resource. Period — Select a start- and end date

© 2026 Boyum IT Solutions A/S

Month - Year (Calendar view)

Tool tips

Tool tip entry	Description
Date — shift type	Displays the date of the day over which the mouse is hovered. Right of it, the shift of this day is displayed (***see*** image above).
Overloaded	When the "Workload" exceeds the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the displayed resource.
Capacity	The available capacity of the resource in hours.

Controls:
Left-right arrows to navigate between calendar months.

Details: Resource XXX

Control	Description
	for the period that you wish to view.
Reset	Click this button to set the viewing period to the default starting date: today
Slider bar	The slider bar below the X axis shows the total time of the selected period to refine/re-adjust time selection or easily jump to any part of a longer period.

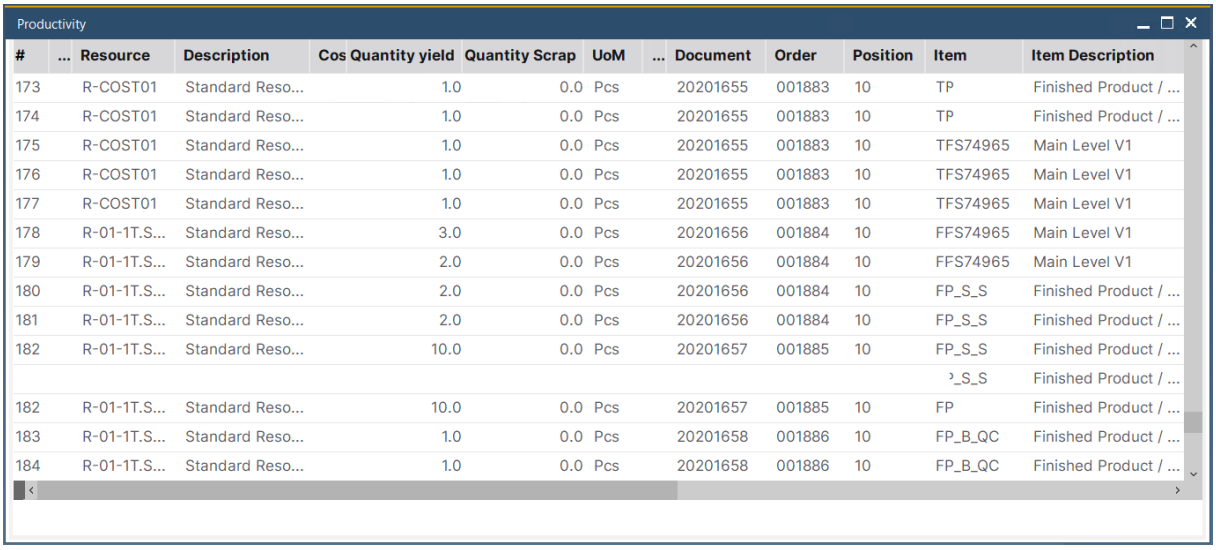
back to Dispatches

8.1.2.2 Productivity

This window displays the read-only list of key productivity figures for each resource stored in the system.

PATH: Resources > All resources tab > right-click > Productivity evaluation.

© 2026 Boyum IT Solutions A/S



Window stamm_arbplatz_worktimes.psr

Field descriptions

Field	Description
...	Bitmap image of resource
Resource	Resource name
Description	Description of resource
Cost Center	Cost center linked to resource.
Quantity yield	Delivered quantity
Quantity Scrap	Scrap amount / the delivered quantity
UoM	Unit of measure
...	Bitmap for order document
Document	Document number
Order	Work order number
Position	WO position number
Item	Item
Item Description	Item description
...	Bitmap image of WO position
Op. sequ.	Operation sequence number
Activity	Name of activity
Employee	User who performed the activity
Personnel No.	Personnel number of employee

© 2026 Boyum IT Solutions A/S

Field	Description
Start	Starting date and time
End	Ending date and time
Duration	Duration time
Op. sequ.	Operation sequence
Type	Operation type

8.1.3 Edit resource

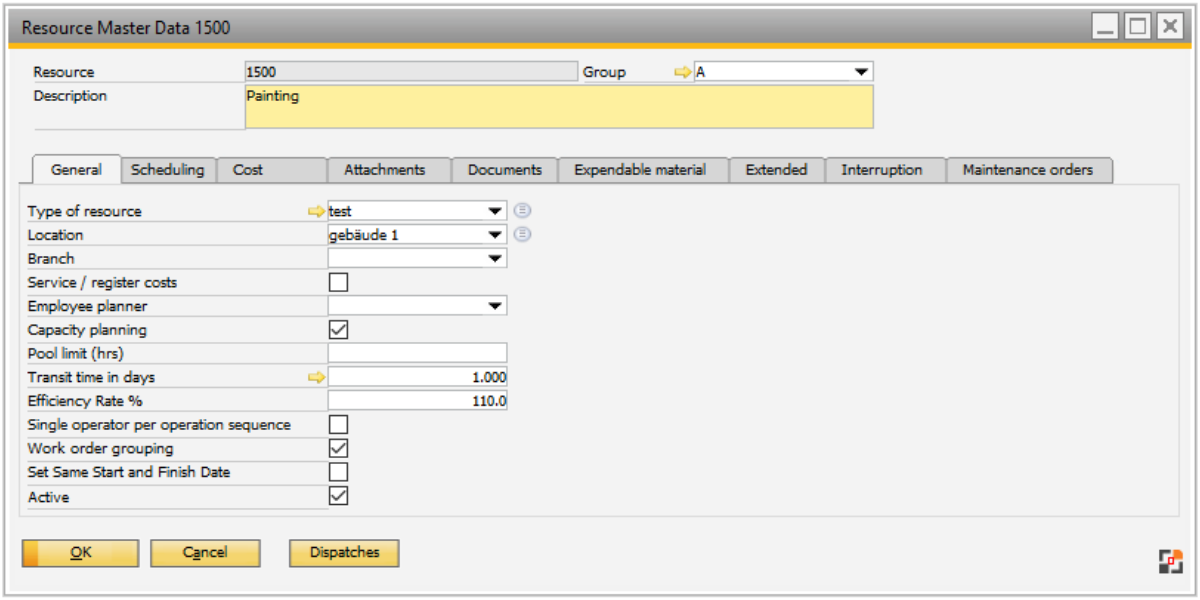
Resource master data

The term “resources” refers to productive resources that are planned as the smallest capacity unit. Only through the correct entry of resources is it possible to receive information on the capacity situation, determine lead times for work orders, or estimate manufacturing costs for the calculation.

PATH: Resources > Resource Master Data.

or

PATH: Resources > Resources.



Window stamm_arbplatz_edit.psr

Header

Field	Meaning
Resource	Unique identification, max. 20 characters. The following characters are not permitted:

© 2026 Boyum IT Solutions A/S

	Space, equals sign, comma, <, >, quotation marks, apostrophe, &, %, ö, ü, ä, ß
Description	Long description of the resource.
Group	ID of the group to which this resource belongs. The yellow arrow opens the Resource group editing window.

Description of tabs

Tab	Meaning
General	General definition of the resource.
Scheduling	Plan utilization or availability of a resource.
Costs	Specification of the costs at marginal and full costs and allocation of cost elements .
Cost details	The marginal and full cost rate can be specified here in further details.
Attachments	3 images or documents can be stored per resource.
Documents	Documents can be stored per resource.
Expendable material	The continual expendable material can be stored for a machine here.
Extended	Further Setup.
Interruption	The reported interruptions can be displayed and revised here.
Maintenance Orders	Displays all maintenance orders linked to this tool. *(beas9.1-008-040-003)*

Buttons

Button	Meaning
Cross reference	- Right-click entry. Opens the Item cross reference. All routings, operations and work orders are displayed containing this resource.
Cancel	Close window without saving changes.
Duplicate	Create a duplicate of this entry.
Remove	Delete this entry.
Reports	Opens the Reports window with a list of reports to start.
Change Log	Opens the Change Log for this resource entry.

© 2026 Boyum IT Solutions A/S

Cost Rates	Opens the Cost rates window for this resource.
Dispatches	Displays current dispatches.

Training unit master data resources

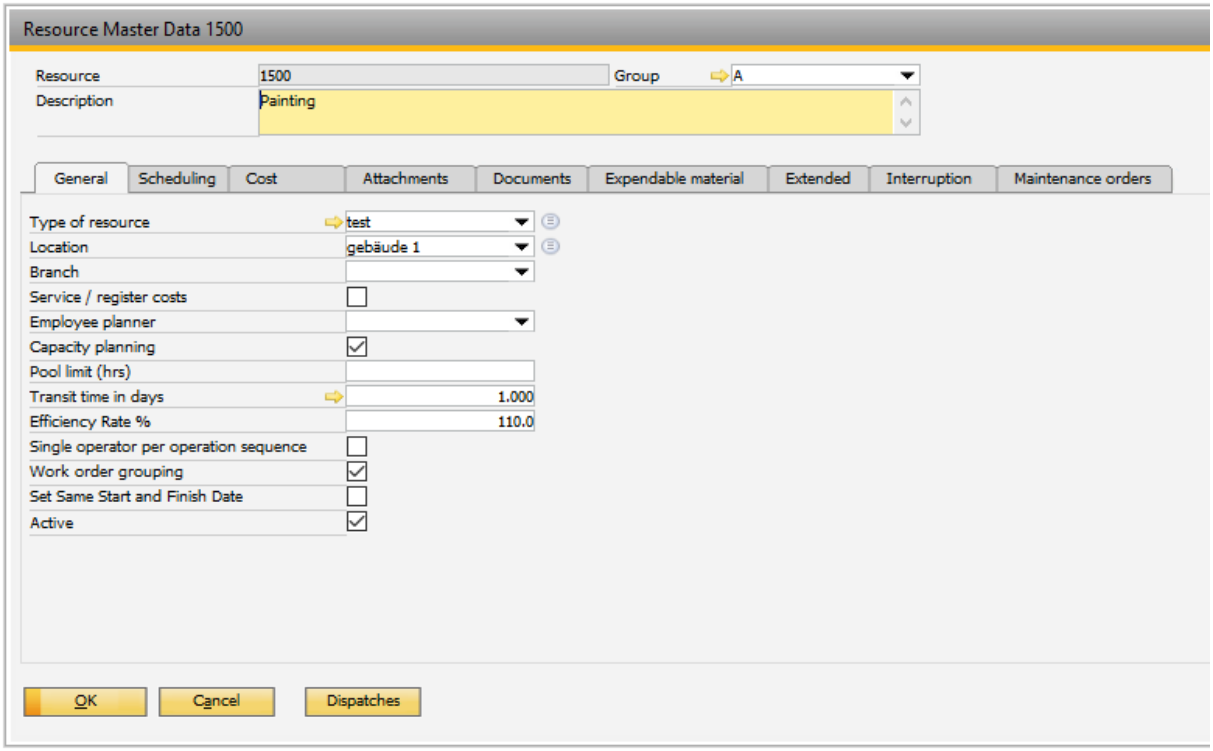
8.1.3.1 General tab

The fields of the General tab are described below.

PATH: Resources > Resource Master Data.

or

PATH: Resources > Resources.



Window stamm_arbplatz_edit.psr

Field	Meaning
Type of resource	Select from deposited resource types. This is only for information and has no additional functionality.

© 2026 Boyum IT Solutions A/S

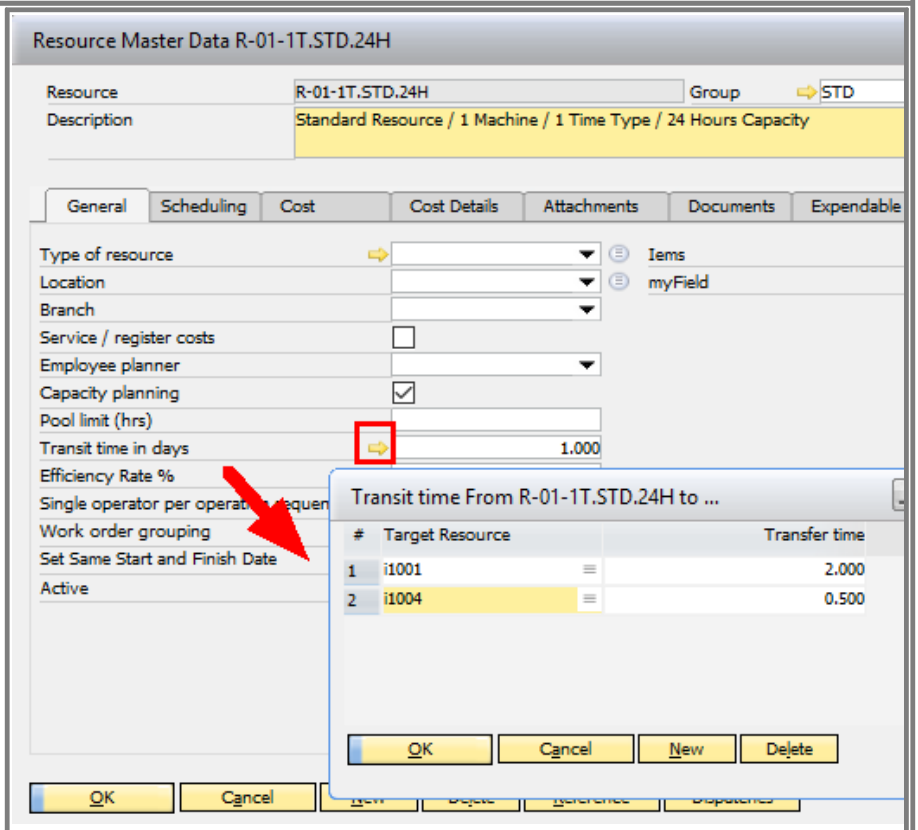
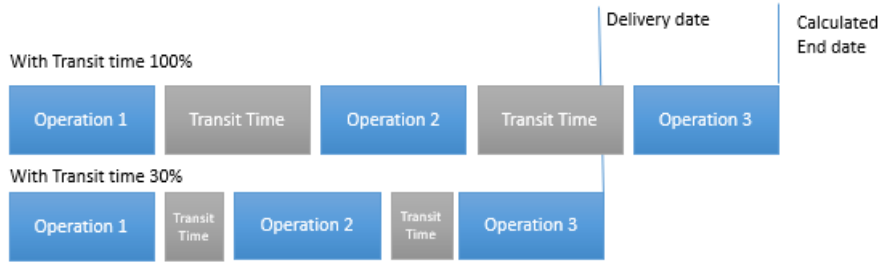
Field	Meaning
Location	Where is the resource located? Locations according to **Administration > Warehouse administration > Locations.**
Branch	Branch where the resource is located.
Service / register costs	If this option is activated and the resource is selected in a routing position, it is an external operation. An external operation can be reported differently: - Time receipt: In addition to time, a pure cost field is available which can be used to input external production costs directly. - Purchase Order: A purchase order can be generated for the routing position. Further fields such as Supplier, Individual Price, Item, etc. are available in the routing position. Resources of the "External processing" type are not normally subject to capacity planning (deactivate capacity planning), but planning as for normal resources is possible, i.e. a resource such as this can be used, planned and reported like a "normal" resource. For other handling of external operations or external processing, ***see*** External Operations.
Employee planner	Defines the person responsible for planning capacities (APS).
Capacity planning	Determines whether the resource should be scheduled. If this option is activated, the "Planning" tab is displayed and further values can be stored in the area of scheduling. If the option is deactivated, there is no schedule planning, the routing position with this resource is not considered in APS.
Pool limit (hrs.)	If working with pool management, the maximum number of hours is entered per pool. If there is no hour limit, a 0 is entered. ***See*** Pool
Transit time in days	Time required for transfer from one resource to another. Entered transit time is always the transit time to the next operation. Transit time can be - Transportation time from one to another place - Drying time - Expand lead times. In this way, urgent work orders can be squeezed in by reducing transit times in APS-calculation types or Priorities. ***Example:*** Step 1 is machine a, Step 2 is machine B

© 2026 Boyum IT Solutions A/S

Field	Meaning

	When the employee is finished with Step 1, he returns the goods to a collection point.
	Later, the next employee collects the goods from the collection point and starts with step 2.
	This time in between is an average transit time.
	
	The transit time is always the time from the preview operation to the next operation and is defined in the resource from preview operation.
	Transit time is entered in days.
	Resource calendar is not taken into account. The factory calendar is considered only if this was enabled in the Configuration wizard.
	Minimum transit time is entered: Configuration wizard – Master data – Resources.
	
	Configuration of operation sequence:
	`|--- Transit time --| |-- Planned time --| |--- Idle time--|`
	
	First operation has no transit time.
	Example with 2 operations:
	
	`Plan time operation 1`
	`Idle time operation 1`
	`Transit time of resource of operation 1`
	`Plan time operation 2`
	`Idle time operation 2`
	
	Resource-related transit time
	It is possible to define different transit times to the next resource.
	Example : 1 day to Resource A and 2 days to Resource B.
	Click on the yellow arrow left of the entry field "Transit time". In this window it is possible to insert the target resources with the resource related transfer time.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	 *stamm_arbplatz_uebgzeit.psr* Transit time can be used to expand lead times. In this way, urgent work orders can be squeezed in by reducing transit times in APS-calculation types or Priorities Example You have transit time 0.5 days With forward calculation you see: It is not possible to deliver it to the planned delivery date Now it's possible to decrease the Transit time in APS-calculation types or Priorities 

© 2026 Boyum IT Solutions A/S

Field	Meaning

	Overlapping
	In case of overlapping, always the largest transit time is used. The factory calendar is considered only if this was enabled in Configuration wizard.
	See Parallel Operation and Overlapping
	Example
	Operation sequences 1,2 and 3 are parallel: 2 hours each, A2 has a transit time of 2 hours.
	Operation 4 is normal with 2 hours duration
	`A1 Start 8:00 - 12:00`
	`A2 Start 8:00 - 12:00`
	`A3 Start 8:00 - 12:00`
	`Idle time A2: 12:00 - 14:00`
	`A4 Start 14:00 - 16:00`
	Note:
	The system works with internal cache. If you change the transit time per target resource, you must reopen the APS Graphical view.
	See
	Factory calendar

Efficiency Rate %	Specifies the % by which the planning time needs to be multiplied. In this way, the planning time can be influenced by the resource. Ratio between planned time and actual time: by entering an efficiency rate you can manipulate the planned time via the resource. ***Example:*** You have 2 milling cutters. A modern, powerful machine + an old, slow machine. ***Example:*** With the Efficiency rate you can define the duration. Defined duration is for powerful machine, example 50 Minutes. Efficiency Rate = 100%. Total = 50min.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	If you must use the old machine, then you can define another Efficiency Rate, for example 80%. Total = 62.50min Calculation Planned duration *100 : Efficiency Rate 50 Minutes *100 : 80% = 62.50 Minutes Work with Efficiency Rate ***see*** Concept Scrap
Single operator per operation sequence	If enabled, only one employee may log in to the operation sequence to which the resource has been assigned. That means several orders may be registered to that resource, but only one employee can work per operation sequence.
Work order grouping	Determines whether several operations may be processed at once on that resource. Several orders can be processed at once on that resource. Enabled Multiple orders can be processed in parallel on this resource. The option is activated by default. This is only considered in the new **FDC > Open Work Order** or in Pool list with multiple selection. Disabled If an order was already registered on a machine (Resource), a second one cannot be registered. In the login window a sign "no entry" is displayed on the resource selection page. Upgrade Information: If work order grouping is to be disabled in general, enter the following statement: `update "BEAS_APLATZ" set "MEHRMASCHINENBEDIENUGN"=0`
Set Same Start and Finish Date	Activate the collective login / logout Only visible if work order grouping has been activated.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	If several work orders are registered in the resource by one person, the same start and end date is set for all work orders at logout, and all are displayed in a list. Standard parallel time calculation is disabled. The entire lead time is distributed to the time receipts. ***See*** Order logout Start/End date
Active	Set resource to be selectable / not selectable. If active, (default) the resource can be selected. If disabled, the resource is no more available for selection. Note: In this case, you can still use the resource. In existing master data and work orders the resource needs to be replaced manually, if necessary. APS-Optimization continues to use this resource, as long as it is stored in resource groups. This switch is no blocking flag. *(beas9.0-0004-021-000)*
Time receipt not split	Determine whether to distribute times for parallel time receipts. Option is visible only if you set up parallel times in the Configuration wizard . Only to be calculated proportionately. ***Example:*** A user logs in to two resources in parallel and logs out after one hour. In this case each operation receives 30 minutes. You can now set up to ignore one resource from the parallel calculation. ***Example:*** Resource A+B consider parallel calculation, for resource C the option "Time receipt not split" has been activated. Operations are registered for all 3 resources in parallel for one hour. As a result, resources A+B receive 30 minutes each, resource C receives 60 minutes. *(beas9.2)*

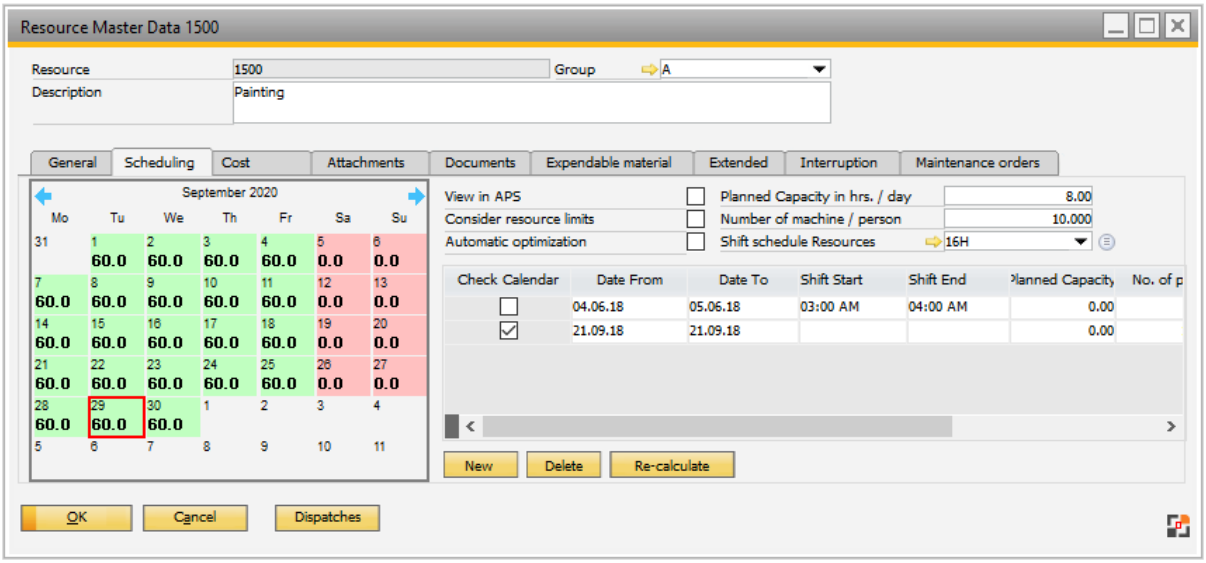
back to edit resource

© 2026 Boyum IT Solutions A/S

8.1.3.2 Scheduling tab

The utilization or availability of a resource can be set per day. Since a resource can also constitute a personnel group, this function can also be considered as the vacation schedule of a personnel group.

PATH: ***see*** "Edit resources".



Window stamm_arbplatz_edit.psr

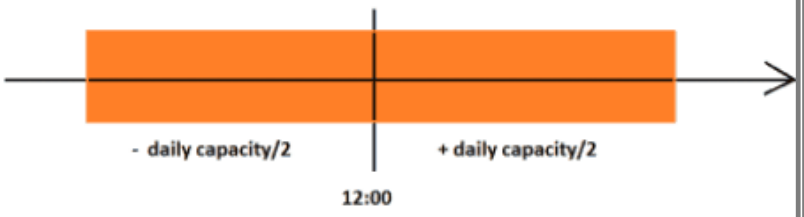
Field	Meaning
View in APS	Display in APS. If active, the work sequence using this resource is displayed in the APS. When deactivated, this is hidden. Note: This option can only be changed with an APS license.
Consider resource limits	Consideration of the resource capacity limits Determines whether the resource has capacity limits or whether this must be considered during the calculation. This must generally be deactivated for external resources, except for ones with planned capability. The resource limit is determined from planned capacity / day x number of machines/persons, the daily plan, and the factory calendar.

© 2026 Boyum IT Solutions A/S

	Note: This option can only be changed with an APS license, because the APS only accepts calculation types considered by the capacity limits.
Automatic optimization	Resource is considered in automatic optimization If active, this resource is considered in automatic optimization. If this resource is to be considered, this option must be enabled additionally in the Resource group – Resource optimization and at alternative resources, as well. Note: The option can only be changed with an APS license. ***See***: Res resource group Alternative Resources
Planned Capacity in hrs. / day	Net capacity per resource. without cleaning, maintenance and other planned downtime. Total net capacity is (planned capacity in hours/day) * (number machines / persons) * (%-value as per factory calendar) Planned capacity can be influenced by - Priorities - Shift schedule of the resource - Shift schedule of the resource group - Shift calendar Planned capacity cannot exceed 24 hrs/day. If in shift schedule for resources or resource calendar a start / end time is defined, the planned capacity is at most the period between start and end time. ***Example***: Start 8:00, End 14:00 Maximum time for scheduling: 6 hours. Start time and end time. The calculated Start is at 12 o'clock - (planned capacity in hours : 2)

© 2026 Boyum IT Solutions A/S

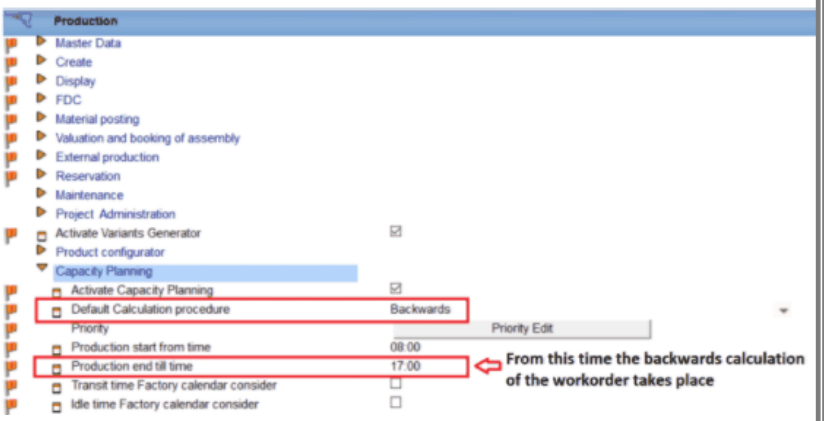
The calculated End is 12 o'clock + (planned capacity in hours : 2)



Backward scheduling considers only the end date

Forward scheduling considers only the start date

Example:



A Resource has a daily capacity of 8 hours.

Shift Start = 12 - 4 = 8 o'clock

Shift End = 12 + 4 = 16 o'clock

So the calculated end is the shift end of the resource at backwards scheduling, which is 16 o'clock in this example instead of 17 o'clock.

Note:

If a start / end date is defined in the Shift definition, these have a higher priority, but do not affect planned capacity.

Note for available planned capacity for an operation:

The max. number of hours between start- and calculated end are available for an operation.

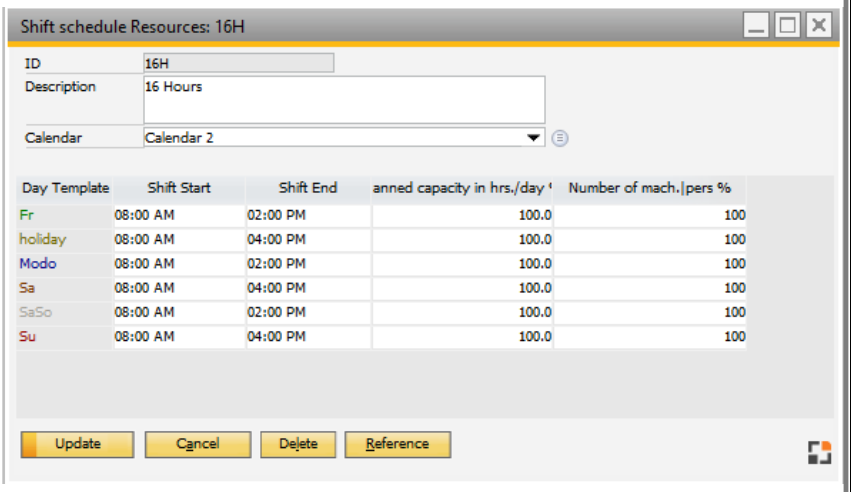
© 2026 Boyum IT Solutions A/S

	e.g. 15 hours day, shift start = 8 o'clock, shift end = 16 o'clock Means, max. 8 hours are available Exception: number of the machines / persons is higher than 0 and defined in the operation, so that all resources can be accessed. Note: View Production structure – Time unit automatically. The setting affects the definition of the unit value "Days" Special case external operation. External operation times are often entered per day. To do so, the planned capacity and the number machines / persons should receive the value 1. 1 equals 24hours in this case. For more information: ***See*** External operation – lead time ***See*** Resource shift plan Priorities Expand and compress Configuration wizard - Production - Capacity planning - End date Capacity planning
Number of machines / persons	Number or single resources for this resource Use this option, to define a kind of resource group without a detailed planning of the elements. A resource can represent a group of machines (e.g. 5 milling machines) or a group of workers (e.g. 5 technicians). To do so, enter a number greater than 1. **Example**: 5 employees are working on one machine. They are not planned separately -> enter 5 The resource represents a person who can work in parallel on 5 turning machines -> enter 0,2 IMPACT ON CAPACITY PLANNING: The field "planned capacity" and "Number of machines / persons" are multiplied, resulting in the total capacity of the resource. (s. resource scheduling calendar)

© 2026 Boyum IT Solutions A/S

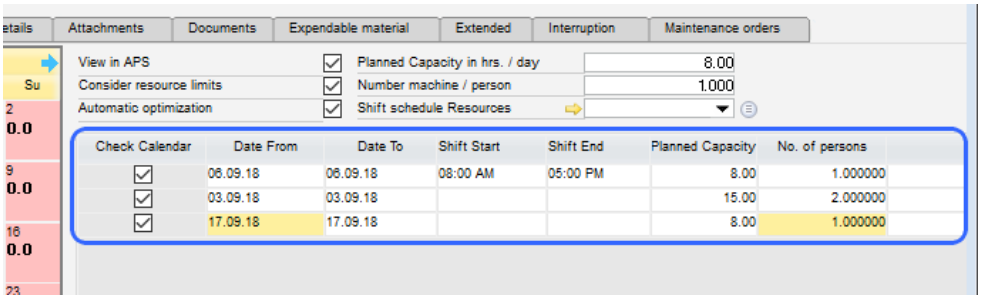
	In capacity planning, only one machine from the group is dispatched to minimize set-up times. If you want to prevent this, enter the group with only one machine but with the corresponding multiplied planned capacity. **Attention:** If the APS calculation is planned as "backward", no resource limits should be checked, and the setting of this field > 1 results in the system not doing a detailed capacity planning. Beas only calculates with the total available capacity for a day. In this example the resource has 3 * 8hr. = 24 hrs. per day. As Beas only plans with the capacity, the “start time” is the same for all resources and. The given start time can be ignored, also the given end time, only the day is relevant. ***Example:*** All WO’s need the resource for 5 hrs. We assume the calculation starts the next day at 8:00 and the day “ends” at 16:00 (this is 8 hrs. working time for one machine) Based on this, the calculation works as follows:. 1. WO: Starts 8:00, End:13:00, takes 5 hours from the 24 --> now for next WO 19 hours remain 2. WO Starts 8:00, End:13:00, takes 5 hours from the19 --> for next WO 14 hours. remain 3. WO Starts 8:00, End:13:00, takes 5 hours from the14 --> for next WO 9 hours remain 4. WO Starts 8:00, End:13:00, takes 5 hours from the 9 --> for next WO 4 hours remain 5. WO --> Starts 8:00, takes the remaining 4 hours --> there is 1 hour less to finish at this day. This 1 hour is taken to the next day and the WO ends the next day at e.g. 9:00.

© 2026 Boyum IT Solutions A/S

	REMEMBER: The start and end times are theoretical and are set normally by the defined starting time of a machine, and the duration of the operation. **Important:** If this value is higher than 1, the Quantity tool field value is ignored by the system.
Shift schedule Resources	Select a resource shift. ***See*** shift schedule for resource If a resource does not have a shift plan assigned to it, the system checks if this resource is associated to a group of resources and reads the shift plan from the resource group.  *Window basis_resource_layerplan_edit.psr*

Resource calendar

Right to the resource calendar exceptions for certain periods can be entered. These are displayed in a table.



Window stamm_arbplatz_edit.psr

Field descriptions

© 2026 Boyum IT Solutions A/S

Field	Meaning
Date from/to	Period in which the exception applies.
Check calendar	Set the check mark to active if the factory calendar has to be taken into account at capacity calculation. If the factory calendar is NOT taken into account, the following formula applies: Total net capacity is (planned capacity in hours/day) * (number of machines or persons) * If the factory calendar is taken into account, the following formula applies: Total net capacity is (planned capacity in hours/day) * (number of machines or persons) * (%-value as defined per factory calendar).
Shift Start/End	Shift start/end. If set, the shift stored in shift schedule for resources is overwritten. For further information ***See*** Shift schedule for resources. By leaving the field empty, the default shift applies. **Attention:** Shift over midnight is not possible.
Planned capacity	Overwrites the planned capacity for this shift in the given period.
Number of persons	Overwrites the number of single resources (***see*** above) in the given period.
Reason	Reason for the exception.

See

Capacity Planning

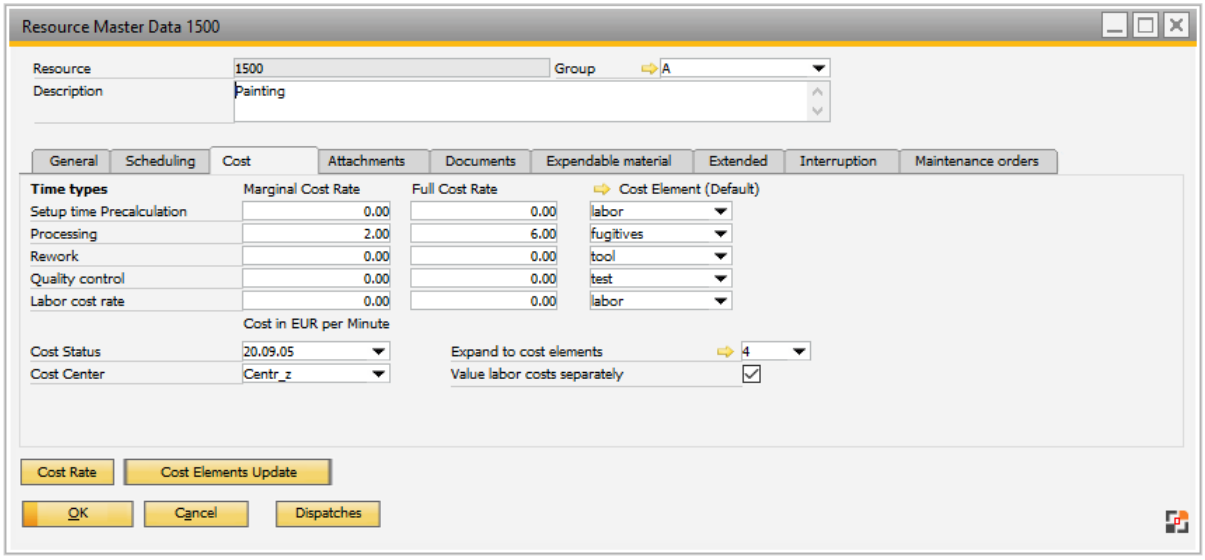
back to edit resource

8.1.3.3 Cost tab

In this tab you can specify the costs as marginal and full costs and assign them to cost elements.

PATH: ***see*** "Edit resources".

© 2026 Boyum IT Solutions A/S



Window stamm_arbplatz_edit.psr

The cost elements are designated in **Configuration Wizard > Master Data > Resources >** Time types

.

For general information on resource costs and some examples, ***see*** Resource costs.

All costs are specified in minutes or in hours. This is configured in the Configuration Wizard.

Field Description

Field	Description
Time types	The time types with their cost rates are displayed. Click the yellow arrow to set up the time types.
Setup time pre-calculation (Setup time type)	Cost rate "setting up". Only visible if the "Expand to cost element" is greater than 1. You can specify a separate cost rate for the setup process. The setup process can be reported separately in the FDC. Input marginal and full costs. A Cost element can also be stored and it can be inserted into the work sequence by selecting it in the operation. ***See*** Time types
Processing (cost rate)	Cost rate "processing"

© 2026 Boyum IT Solutions A/S

	This field is always visible. This is the main cost rate and can represent either a mixed calculation of all costs ("Extension to cost element" = 1), machinery costs only ("Evaluate personnel costs separately" active) or the main processing time ("Extension to cost element" > 1). If you change Marginal Cost Rate and in Cost Details Fixed Costs defined, the System automatically calculates the Full Cost Rate, which is Marginal Cost Rate + Fixed Costs. Input at marginal and full costs. A Cost element can also be stored and it can be inserted into the work sequence by selecting it in the operation. Please consider general information on Resource costs.
Rework Quality control	Cost rate secondary time, extended cost rate In these fields additional cost rates such as rework, quality control, pure machinery costs, and so on, can be set up as a separate cost rate as required. These can also be reported separately in the FDC without having to insert another resource or operation. Only visible if the "Expand to cost element" is set to 3 or 4. Input the marginal and full costs. A Cost element can also be stored and it can be inserted into the work sequence by selecting it in the operation. ***See*** Concept Time types Configuration wizard - Resources
Labor cost rate	The Labor cost rate can be set in these fields. Only visible if "Value labor costs separately" is active. Input marginal or full costs. A Cost element can also be stored and it can be inserted into the work sequence by selecting it in the operation.

© 2026 Boyum IT Solutions A/S

Cost Status	Date of the cost definition.
Cost Center	Specification of a cost center for further analysis (not the same as the cost element).
Expand cost elements	Define number of cost rates. The number of cost rates available. The default is one cost element (processing time), which can represent a mixed calculation of machinery and personnel costs. Up to 4 cost rates can be defined, if for example a separate report should be made for machinery, personnel, or other cost originators via FDC. If setup time is to be valued separately, select "2" cost elements. Then for setup and for processing time rates of marginal and full costs and a Cost element are available. At order time receipt you select if the registered time is setup or processing time. Two additional time types can be set up to perform separate cost calculation and time registration. ***See*** Concept Time types Time types Configuration wizard – Resources
Value labor costs separately	Separate personnel costs. If this option is activated, a separate cost rate can be stored for personnel costs. Special feature: If a cost rate is stored in the personnel master, the costing calculation is performed using the personnel cost rate of the employee who reported the time. For this type of cost recording, separate personnel clocking in/out is not necessary, although this means that this type of cost recording can only be used if the person operates only one machine at a time.

© 2026 Boyum IT Solutions A/S

	Example: Personnel costs with 2 cost elements ("Extend to cost elements" = 2): 1. Setup cost element €0 2. Processing cost element €2 / minute (= machinery costs) 3. Personnel costs €1.5 / minute When logging in to FDC, the employee can now decide whether he reports the "setup" or the "processing". In the first case, a calculation of €1.5/minute (= 0 + €1.5) is performed, and for a processing report €3.5 (= €2 + €1.5). Only one time report is generated in which all direct costs are included. As a separate cost element can be stored for personnel costs, separate analysis of the planned or accumulated personnel costs are possible in the pre-calculation and cost analysis. If the person operates several machines and clocks his own costs, this can be performed using an extended cost element.

Buttons / Functions

Button	Meaning
Cost Rate	Define additional cost rates.
Cost Elements Update	The selected resource costs elements can be updated in all routings containing this resource as a routing position. In the prompt the following options are available: All: all cost elements are replaced. Only empty: only empty cost elements are updated.

Back to edit resource

© 2026 Boyum IT Solutions A/S

8.1.3.3.1 Resource costs

The costs that a resource generates costs are related to a minute or hourly rate of the usage time stored in the routing. These costs can be sorted into different types.

Type	Description
Only one cost rate	There is only one cost rate into which the personnel and machinery costs have been factored. Advantage: Handling is very simple.
Machinery + personnel costs	There are two cost rates in the resource: • One for the machine • One for the use of personnel It is assumed that the resource is a machine operated by one person and the person operates only one machine and works on only one order. The actual personnel costs according to the personnel master can also be considered in the costing analysis. Advantage: Handling is very simple. Disadvantage: Does not support work order or machine grouping.
Machine setup time, machine processing time	There are two cost rates: • One cost rate for the setup process • One cost rate for the processing time The personnel costs is factored into both In this case, the setup process and the processing time are logged in and out separately in factory data collection. Advantage: Separation of corresponding costs. Disadvantage: Handling is somewhat more complex.
Machine setup time, machine processing time + personnel costs	There are three cost rates: • One cost rate for the setup process • One cost rate for the processing time • One cost rate for the use of personnel In this case, the setup process and processing time are logged in and out separately in factory data collection. In the setup process: setup costs + wage costs are calculated.

© 2026 Boyum IT Solutions A/S

	Processing time: processing costs + wage costs are calculated. It is assumed that the resource is a machine operated by one person and the person operates only one machine and works on only one order. The actual personnel costs according to the personnel master can also be considered in the costing analysis. Advantage: Handling is relatively simple. Disadvantage: Does not support work order or machine grouping.
User-definable cost rates	⊟ Up to 4 cost rates can be defined which can all be logged in and out separately. This setting makes it possible for a machine processing an order at machinery cost rate and the employee at the employee cost rate to log in for different durations. Therefore the setup process, employee assignment and machine assignment can be planned and evaluated separately. Up to four time types (employee assignment, setup process, quality assurance, and so on) can be defined, and any cost element can be stored for each type. Advantage: Exact separation of costs. Disadvantage: Costly factory data collection.
Parallel resources	Another option for separating machine and personnel costs is using parallel resources. ⊟ Details: One resource is created for the machine and one for the personnel. A parallel resource for the personnel time is added to the main operation for the machine. This approach can be used to calculate and evaluate machine time and personnel time separately. Advantage: Exact separation of costs. Disadvantage: Costly master data and factory data collection.

© 2026 Boyum IT Solutions A/S

Note on changed resource costs:

The resource costs specified in the work order are planned costs from the moment of creating the work order or when transferred from pre-calculation from the moment the pre-calculation was created. It is exclusively planned costs (calculation costs).
For a time receipt the resource costs are used, that are currently stored in the resource.
The moment of reporting order time is applied, not the valuation time.

Example:
1st May: resource costs 5 €, when the work order is created
2nd May: resource costs increased to € 5.50 in the resource
3rd May: order time receipt is created and € 5.50 is used for the valuation
4th May: resource costs are increased to 6.00 €
5th May: order time receipt is created retroactively for 3rd May. Because no price history is available, the reference price is the current resource price of € 6.00.

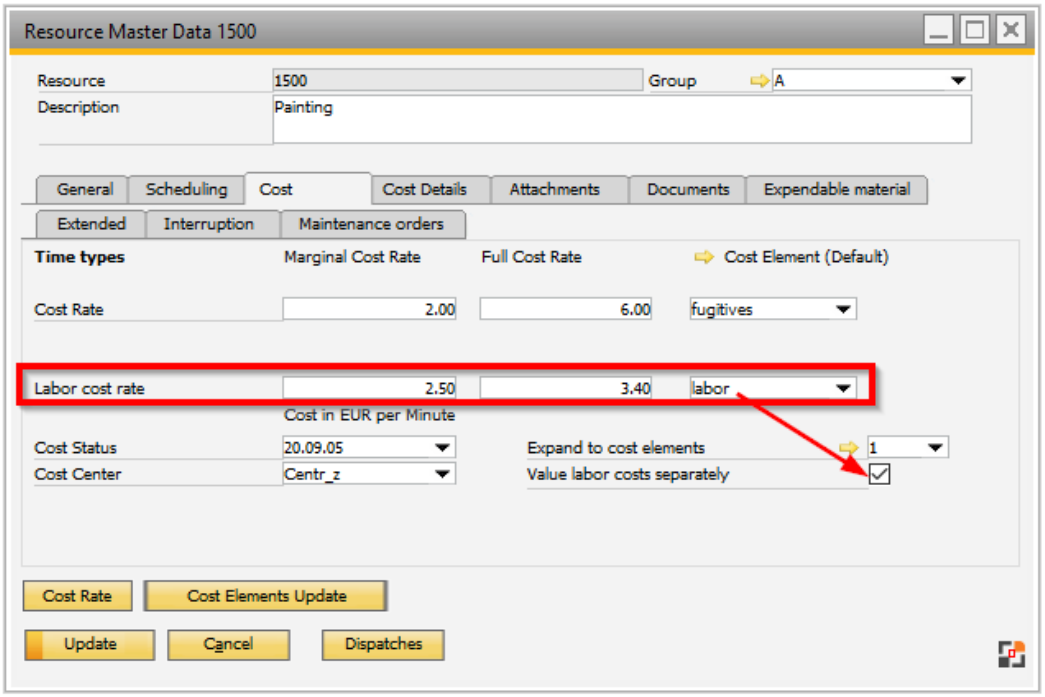
Changes to costs in the resource master or the production order have no effect retroactively on journal entries. Resource costs in the work order are the result of calculations, they have no effect on the cost of time receipts.

8.1.3.3.1.1 Separate wage costs

Labor cost collection is only possible if the employee works with only one machine or resource, so the machine and personnel times run in parallel.

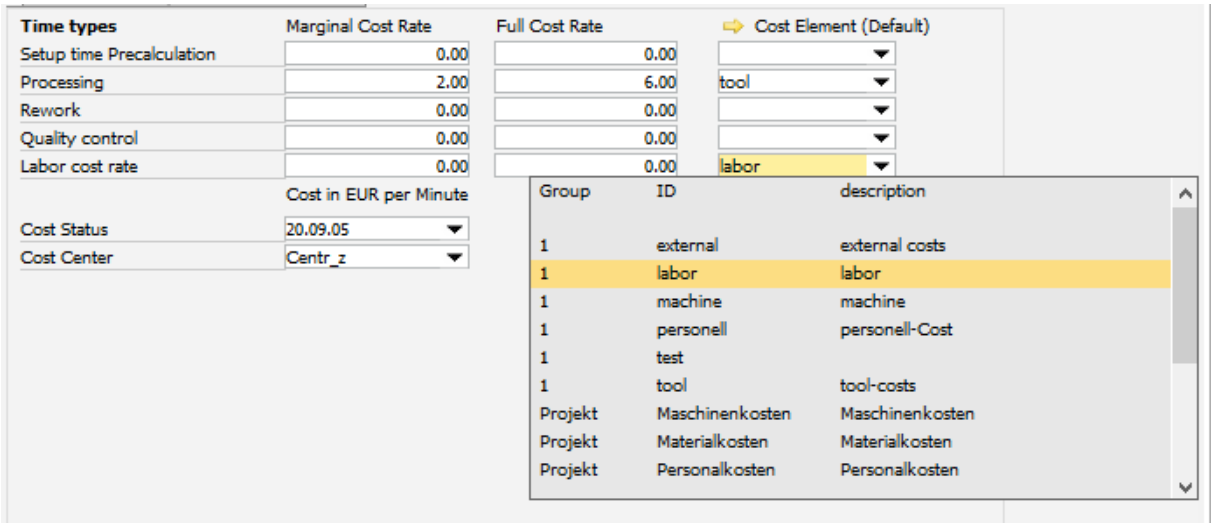
These settings can be configured independently for each resource in the Costs tab, using the *Value labor costs separately* field. If this option is active, the personnel cost fields (marginal costs and full costs) are displayed.

© 2026 Boyum IT Solutions A/S



Window stamm_arbplatz_edit.psr

Different cost elements also visible. By selecting maximum 4 cost elements in the *Expand to cost elements* drop-down field, 3 additional time types appear with relevant fields for marginal cost rate, full cost rate and drop-downs fields for cost elements for each line:

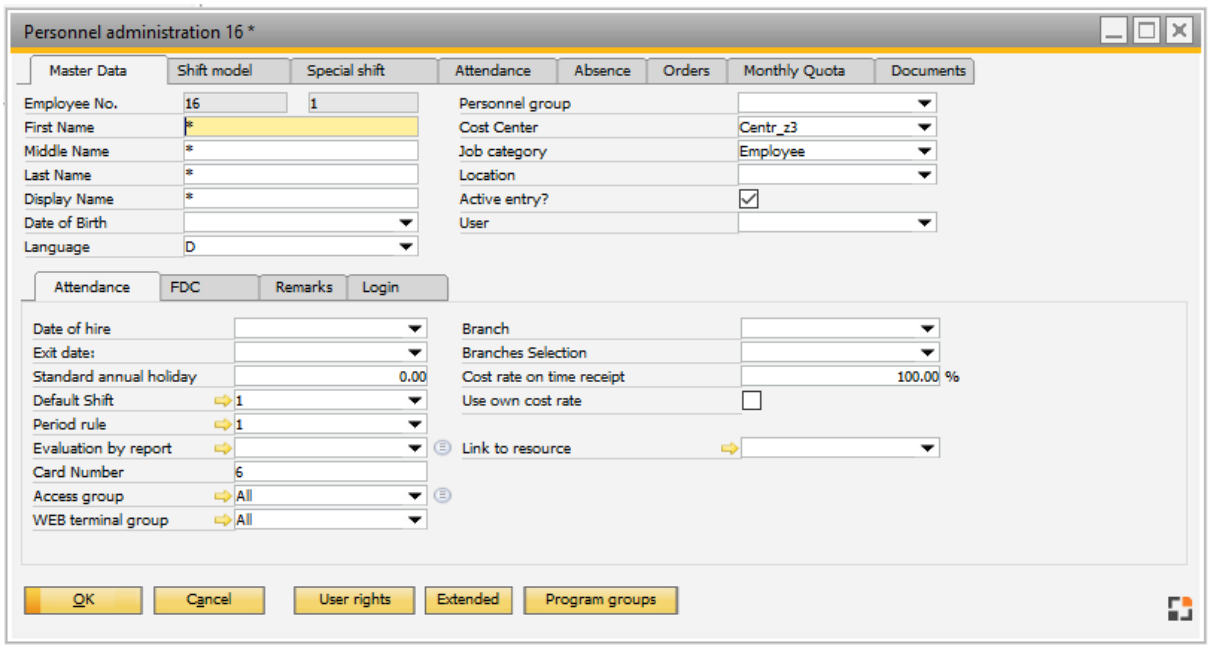


Window stamm_arbplatz_edit.psr

The individual costs (machine or personnel) are not visible in the costing analysis or the time entry. The sum of machine and personnel costs are always displayed in the costing analysis. However these cost data are stored separately.

© 2026 Boyum IT Solutions A/S

If the employees have custom hour or minute rates, depending on configuration, you can configure Beas so that the personnel rate stored in the personnel master data is used for the costing analysis rather than the planned personnel rate.



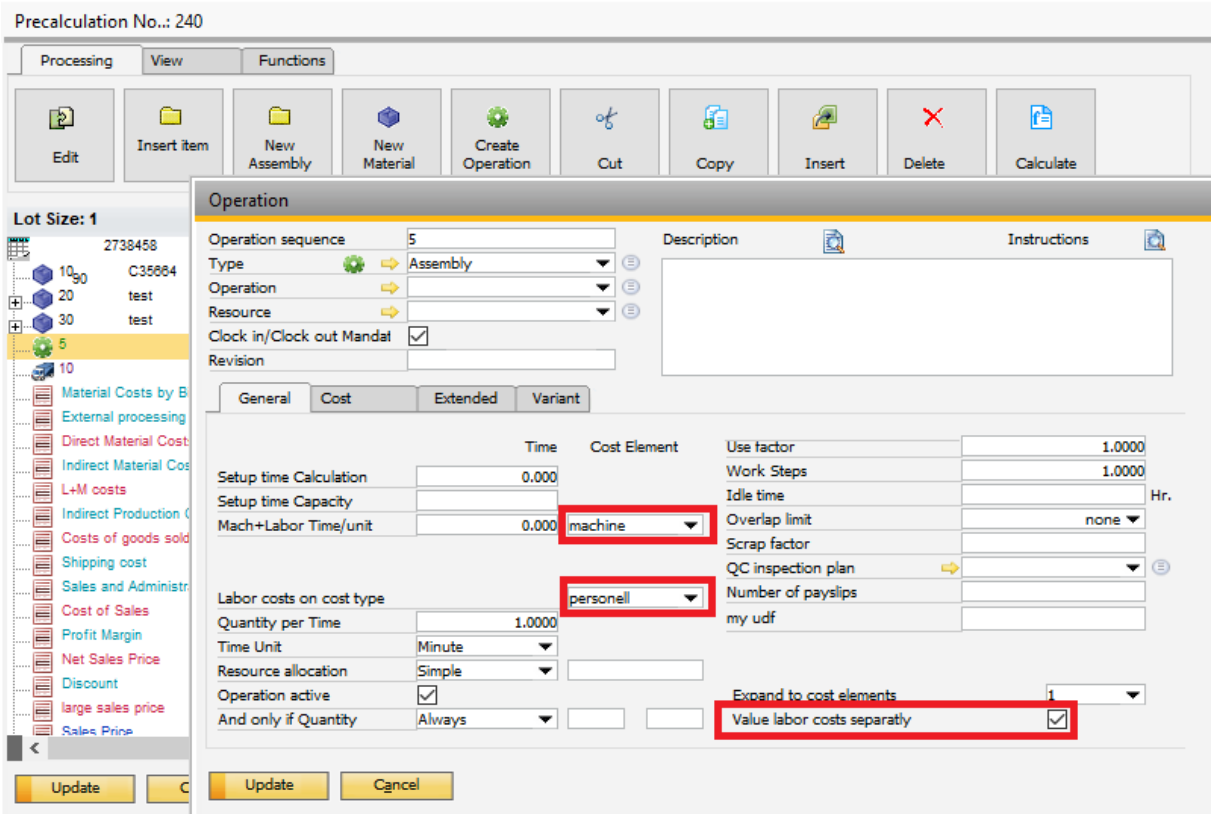
Window bde_personnel_edit.psr

Separate display of machine and personnel costs

The time types can be used to evaluate the machine and personnel costs separately.
Following is an example with a new calculation:

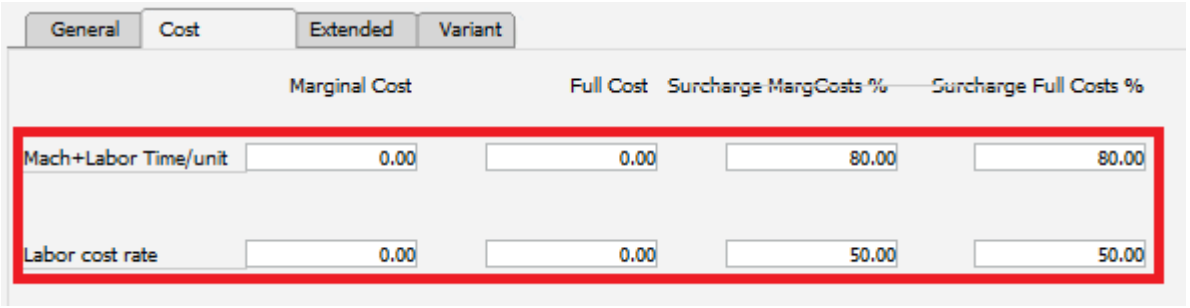
On the operation General tab activate *Value labor costs separately*. During processing, enter the previously created time type *Machine* and *Personnel* for personnel costs.

© 2026 Boyum IT Solutions A/S



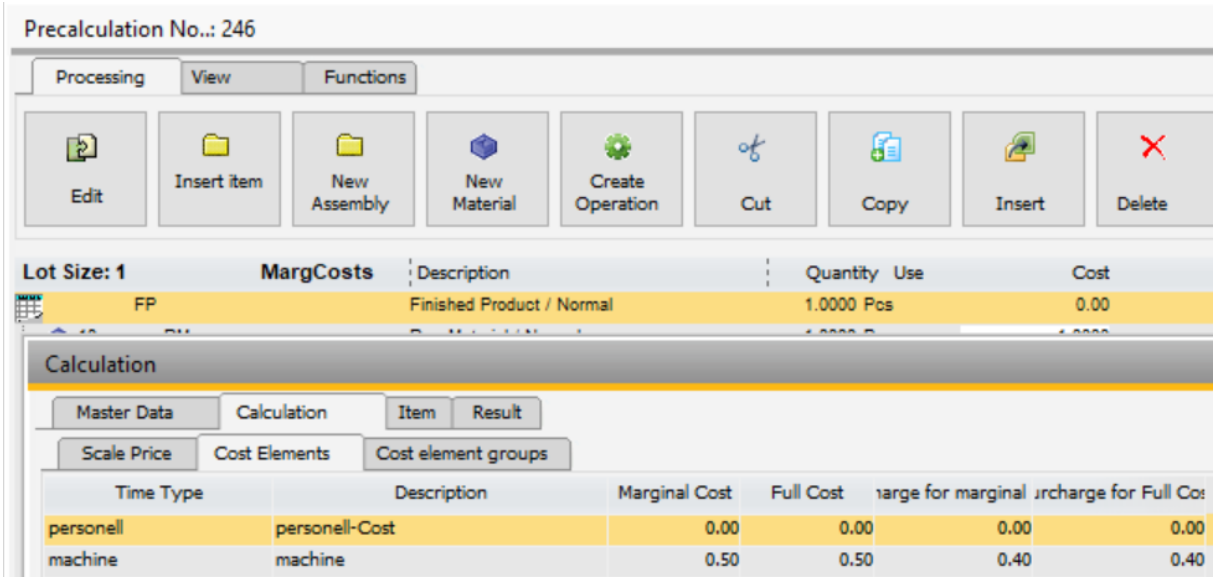
Window pk_arbplanos.psr

The machine and personnel costs are entered in the Costs tab:



If you process the first entry of the calculation and go to **Calculation > Cost Elements**, the costs per cost element are displayed:

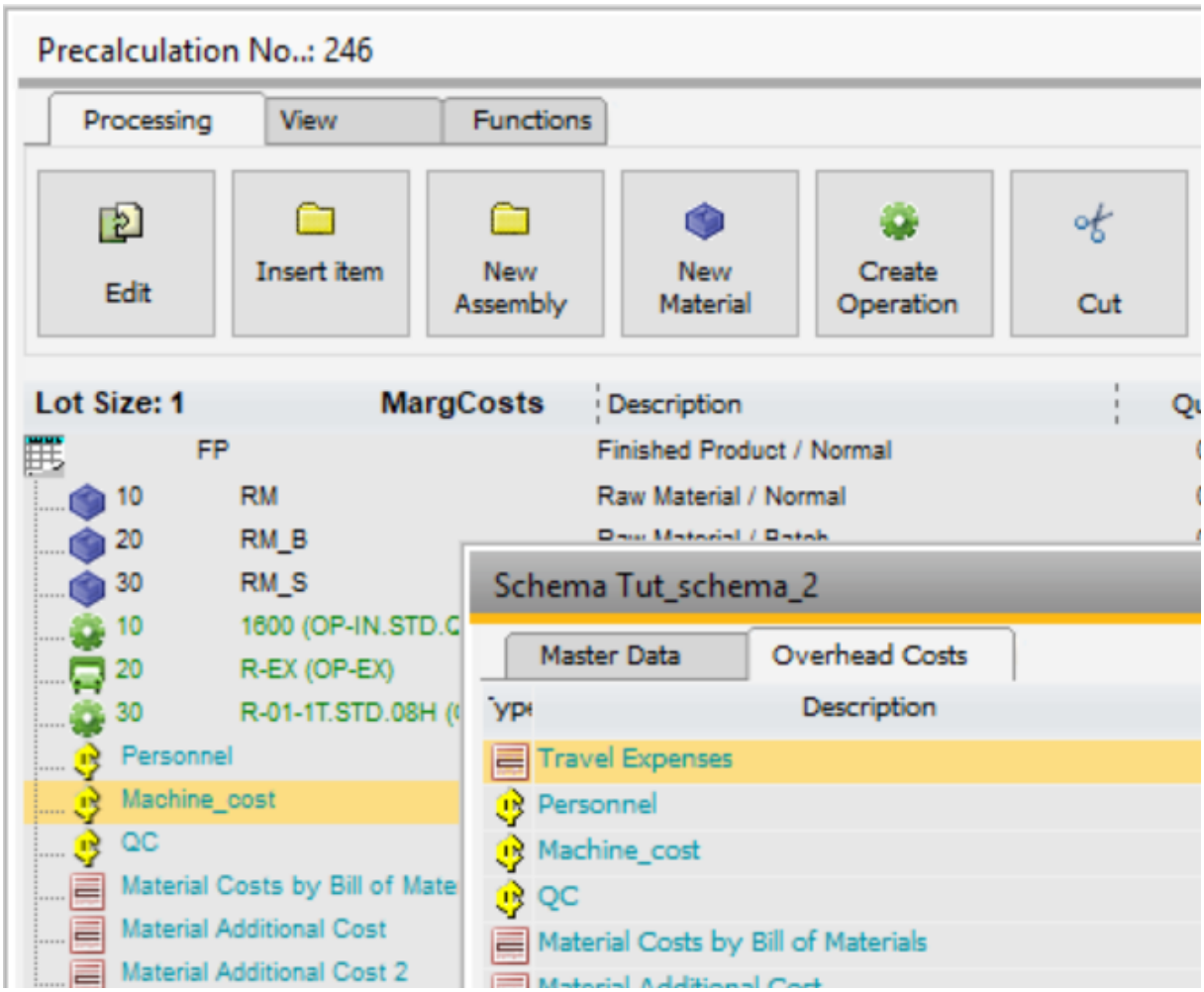
© 2026 Boyum IT Solutions A/S



- There are two approaches for using cost elements:
- Instead of the production costs, the costs of the individual cost elements are displayed.
- The individual cost elements are displayed in addition, without them being added to the final sum (deactivate *Evaluate in precalculation* option).

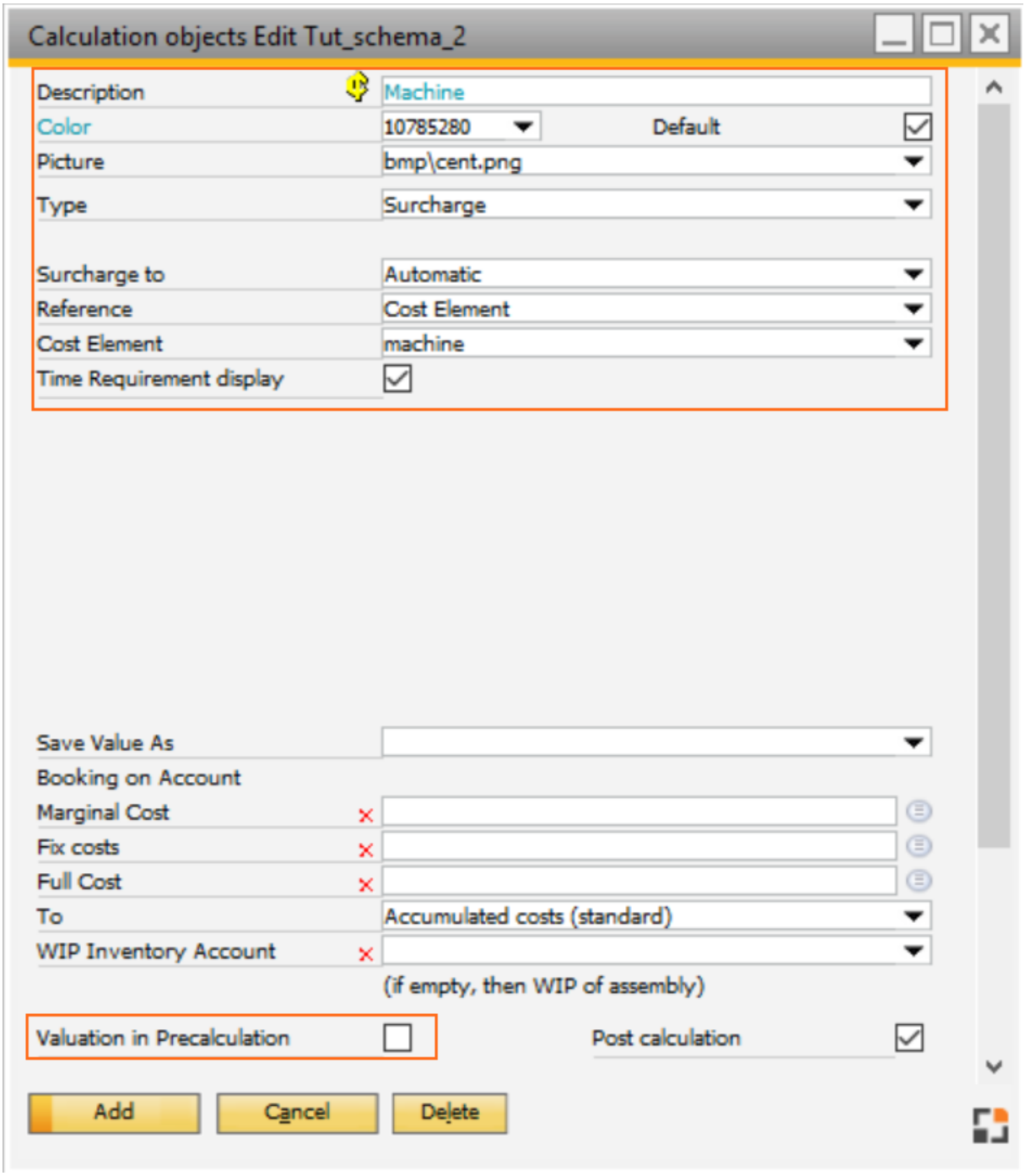
Example for the second option:
This is done using the calculation objects. You can insert any calculation object after the production costs.

© 2026 Boyum IT Solutions A/S



This is processed immediately.

© 2026 Boyum IT Solutions A/S



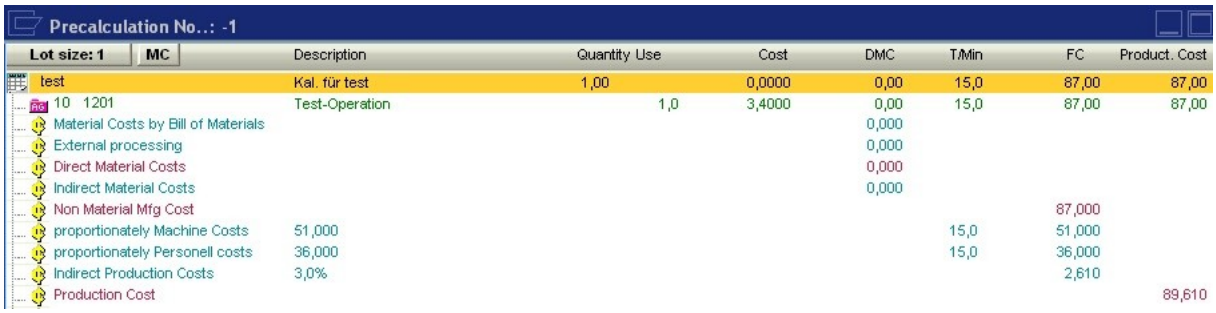
Add a description and cost type. Use the cost element type in the reference field, then select the required cost element.

Do not select the *Valuation for Precalculation* as this is already part of production costs.

The same setup is used for the *Personnel* cost element.

The individual cost elements are now listed in the calculation and not added.

© 2026 Boyum IT Solutions A/S



If only the costs of the cost elements should be listed, do the following:

1. Remove the *Production costs* object.
2. Activate the *Evaluate in Precalculation* in the inserted objects.
3. In the first object, set *Belongs to* to Production so that the program recognizes that these costs belong to the production costs from this line.

In order to avoid having to re-define the surcharges every time, you can adapt the calculation template directly under **Calculation > Template**.

1. Copy the default template
2. Adapt the newly created template to the requirements
3. In the **Configuration Wizard > Calculation** set default template to the user-created template.

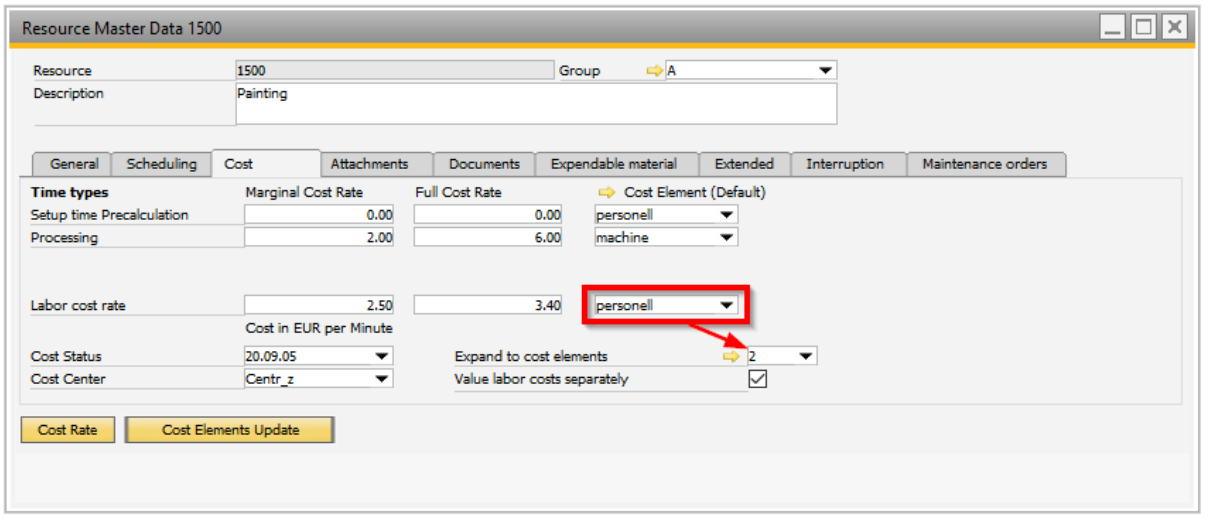
8.1.3.3.1.2 Separate setup costs

The processing and setup costs can be assigned different cost rates and can be reported separately. Also ***see*** Separate wage costs.

This is activated in the **Resource Master Data > Cost tab**.

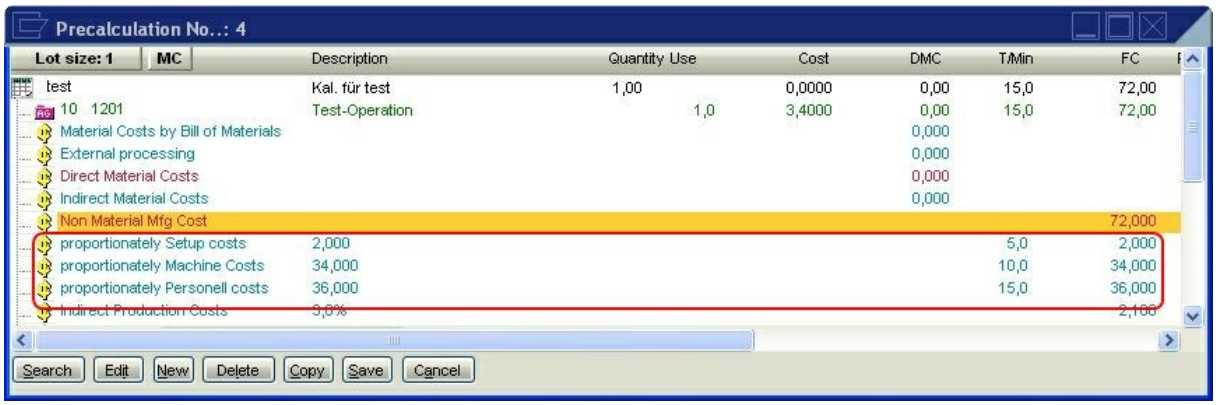
Set the Expand to cost elements parameter to 2. This makes the processing and setup time available as different time types and you can store the cost rate per minute at marginal and full costs.

© 2026 Boyum IT Solutions A/S



In this example, the labor costs are also activated, but this is only possible if machine grouping is not used. Alternatively, the personnel costs can be factored into the setup and processing time.

The setup costs can now be displayed separately in the calculation. ***See*** setup of calculation objects in Separate wage costs.

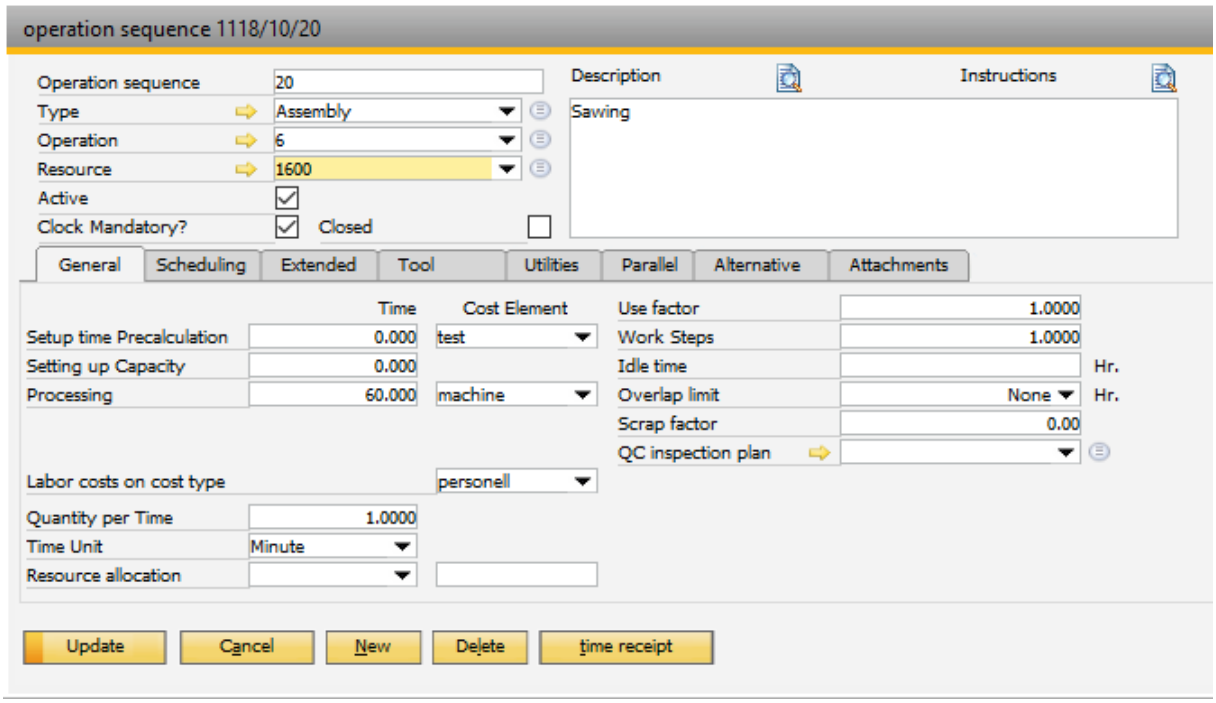


Window pk_struktur.psr

This example illustrates that 5 minutes of setup time and 10 minutes of processing time was used and the person, who may only operate one machine, generated both values (setup + processing time), that is, 15 minutes of cost for this work sequence.

This has the following effect in the area of production:
A resource is stored in a work sequence with the corresponding setting.

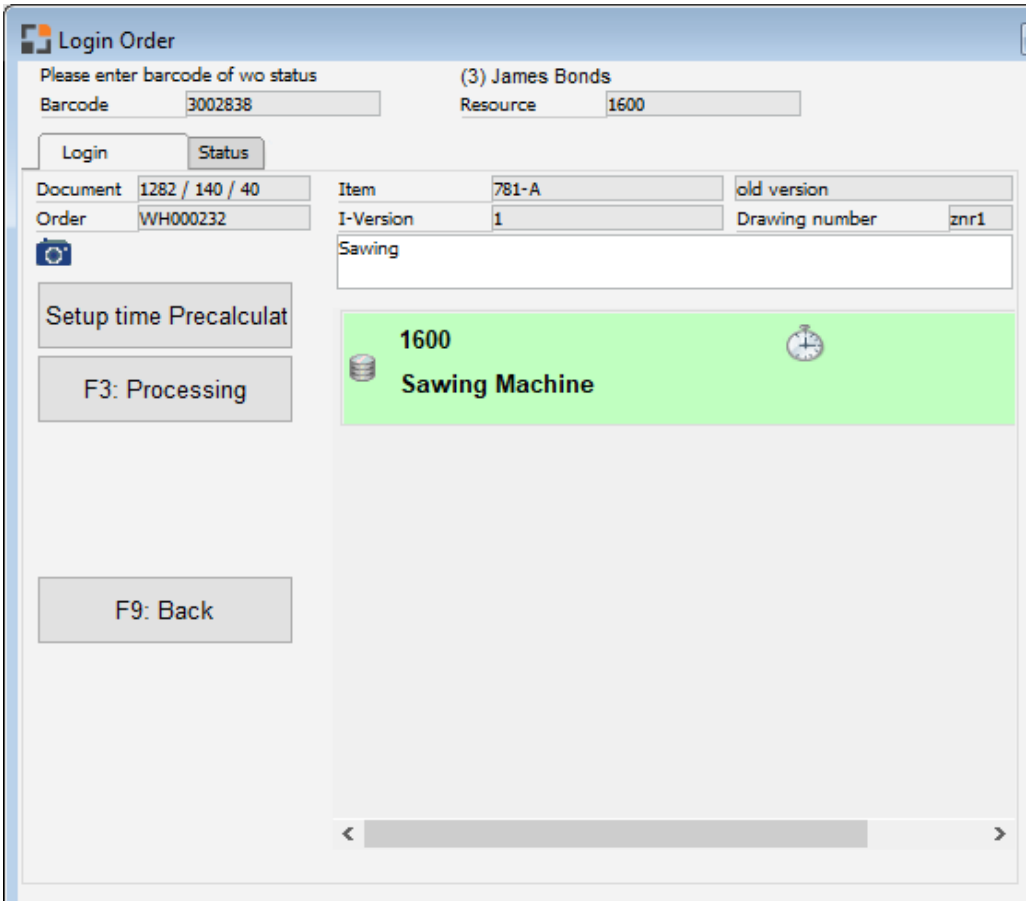
© 2026 Boyum IT Solutions A/S



Window fert_arbplanos_edit.psr

If the work sequence is now logged in, the employee can choose whether to log in the setup time or machine time.

© 2026 Boyum IT Solutions A/S



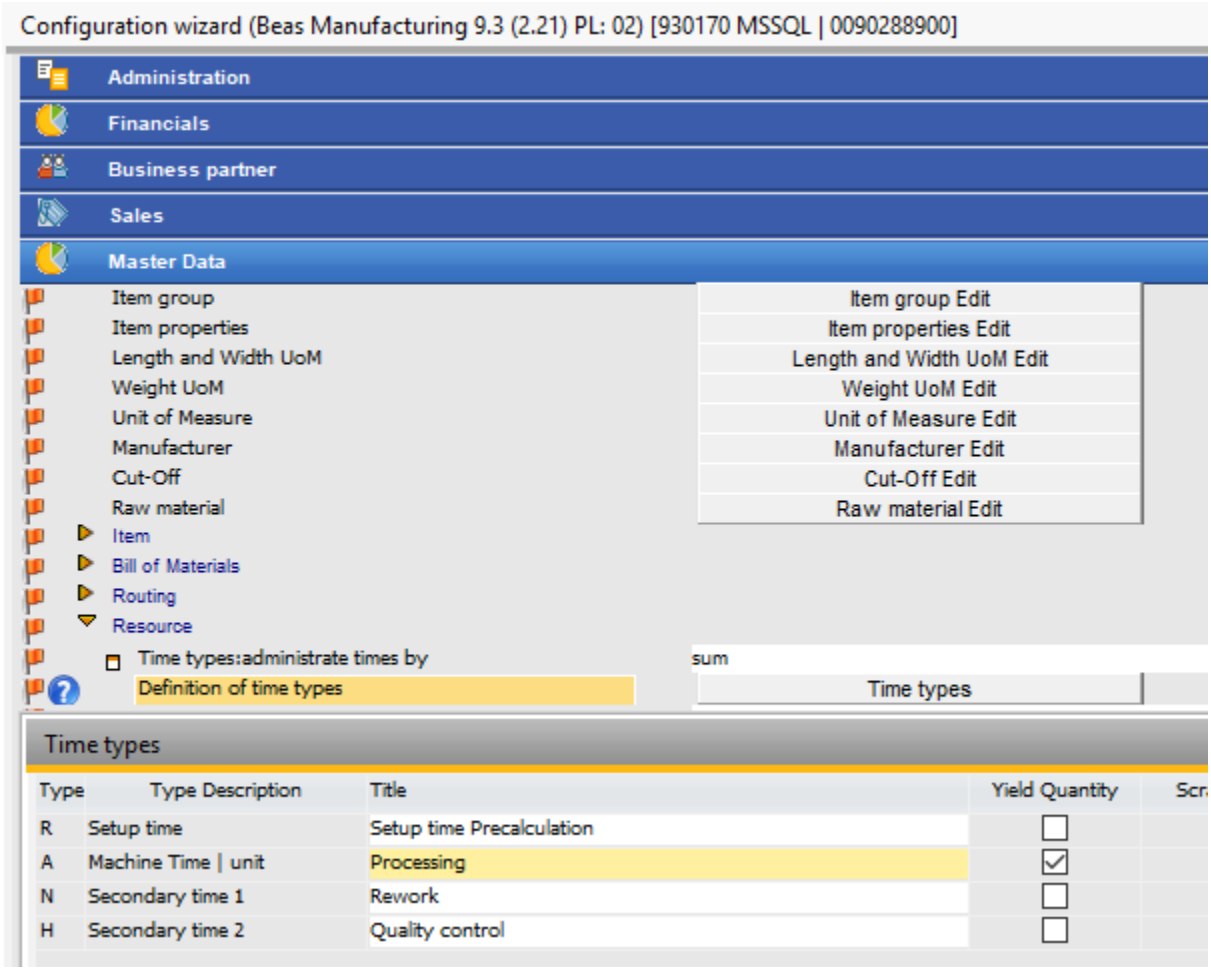
Beas determines which functions are available directly from the master data and resources rather than the work sequence as the information in the work orders represents the plan data.

8.1.3.3.1.3 Concept time types

Up to 4 time types can be set up in the Configuration Wizard. In the flowing example, the following time types are set up:

- Setup time
- Processing
- Rework
- Quality control

© 2026 Boyum IT Solutions A/S

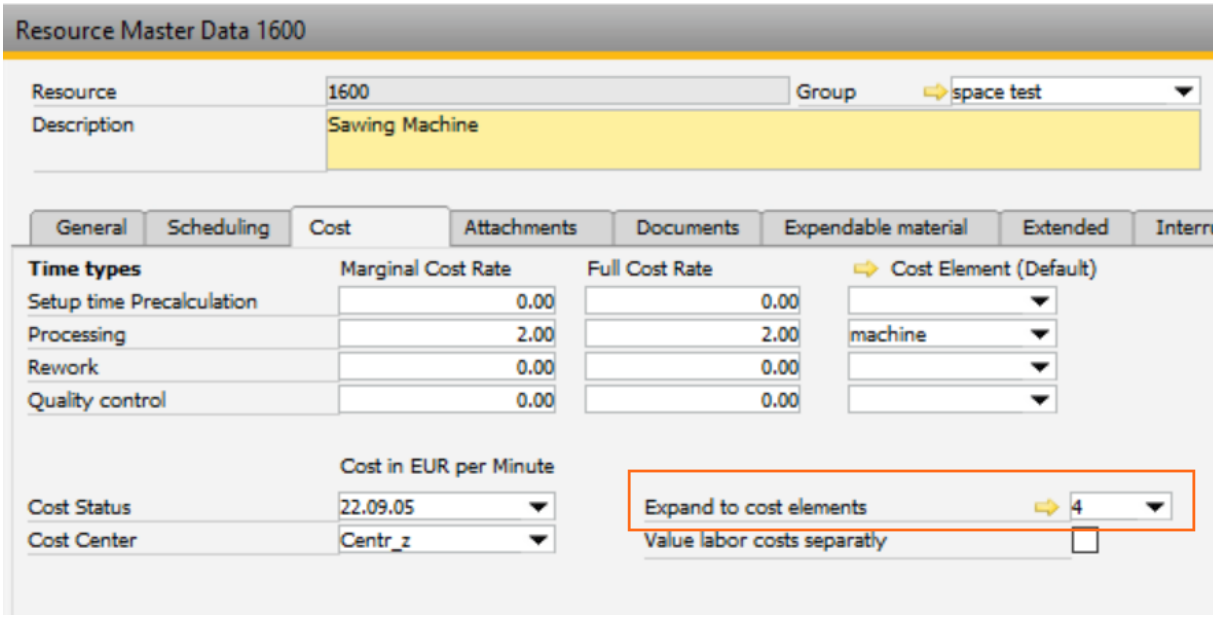


Type R: setup time

Type A: main order time for which the number of pieces is reported

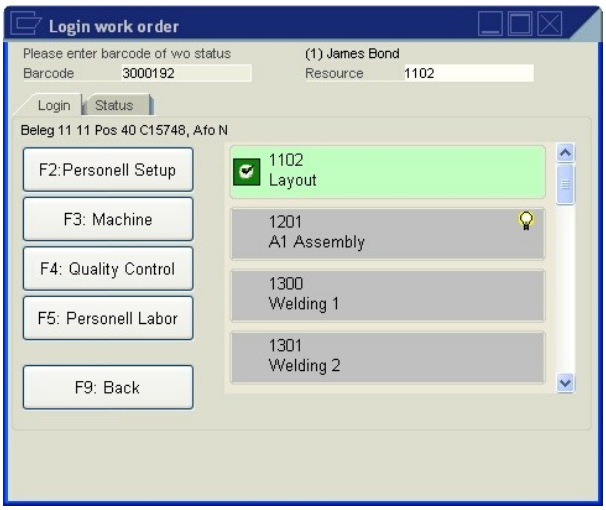
All time types can be activated in the resource by extending cost elements to 4:

© 2026 Boyum IT Solutions A/S



It is possible to store a separate cost rate and cost element for each time type.

If this type of work sequence is logged in, the following login functions are available to the user:

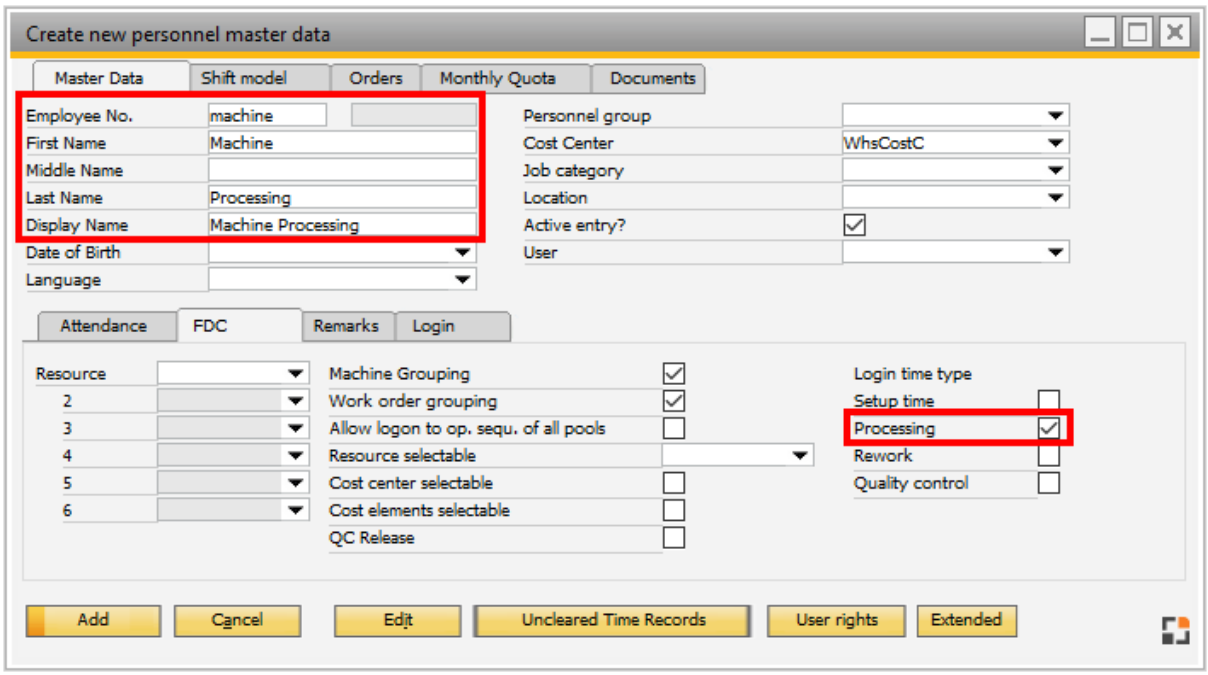


A person cannot report the personnel time and machine time for a work sequence simultaneously. Machines must therefore be reported using a different personnel number.

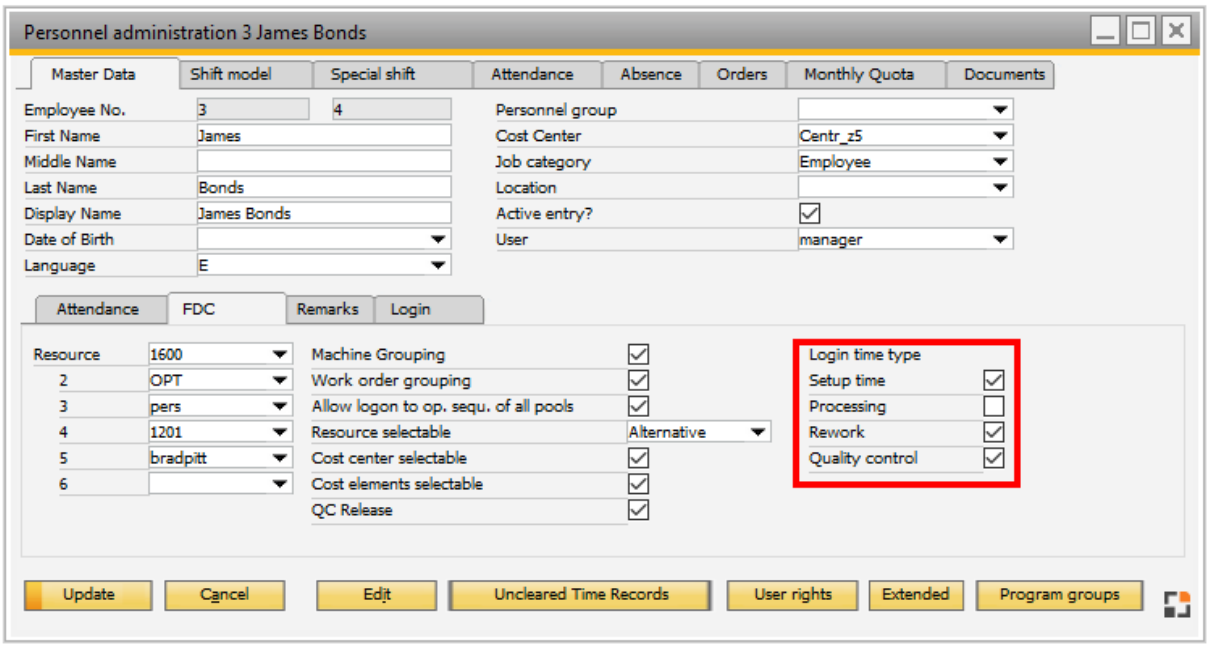
Approach:

The Processing time type is registered as a personnel; a single personnel entry can also represent all machines.

© 2026 Boyum IT Solutions A/S

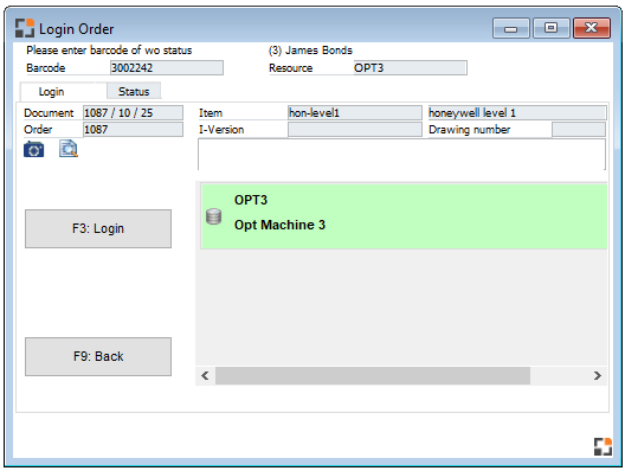


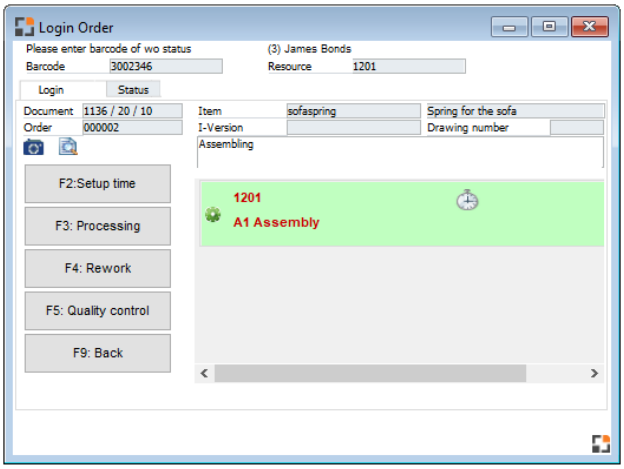
In the Personnel master of the employees, everything is then activated except the time type "Processing".



If a login is now performed using the card number of the machine, the following selection is available, in addition to selection using the card number of a person.

© 2026 Boyum IT Solutions A/S





This method permits very accurate recording of all time types, including in work order and machine grouping - from Precalculation to FDC through to costing analysis. However, as the machine must be logged in and out separately, the cost incurred for process time collection is high.

See

Resource costs

Time types

Configuration wizard – time types

Configuration wizard – Resources

Back to Resource costs

8.1.3.3.2 Cost rates

For Default cost rate different cost rates for marginal and full cost can be created. Instead of the planned values from work order one of these cost rates can be used as reference in the costing.
See Batch-post-calculation.

© 2026 Boyum IT Solutions A/S

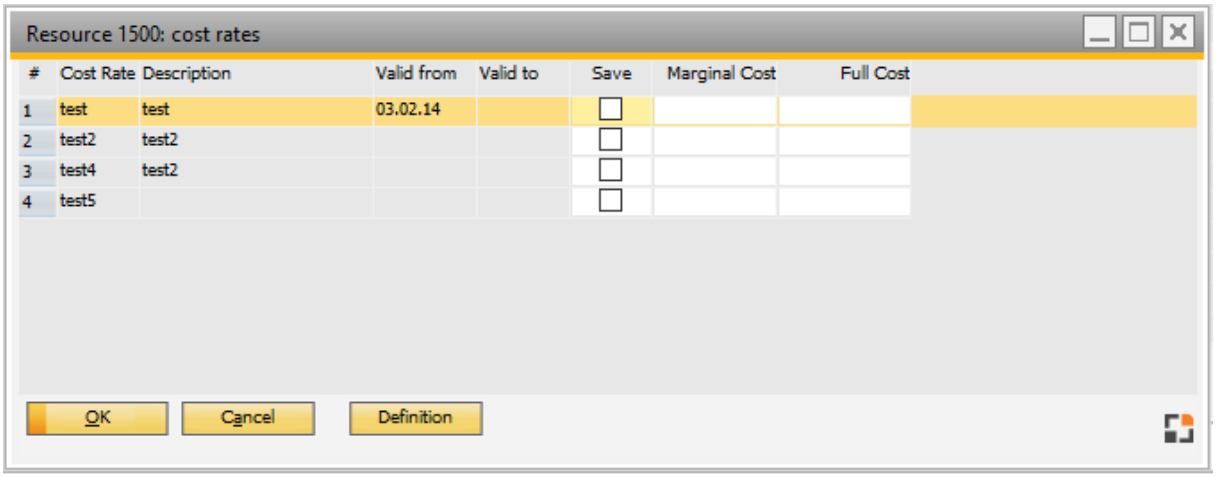
Full and marginal costs can be entered here for different cost rates. Define additional cost rates using the button "**Definition**"
In post-calculation via "**Resources > cost rate**" you can define, which cost rate to use. If no cost is specified, planned values are used.
For editing, the authorization "resources" is necessary. ***See*** Authorizations

Restrictions
These cost rates can only be used in post-calculation, not used in Precalculation. Only the processing cost rates can be defined, but not advanced cost rates as set-up costs, rework, staff cost rates, etc.

PATH: Resources > Resource Master Data > **Open** resource > Resource Master Data XXX > Cost tab > "**Cost Rate**" button.

or

PATH: Resources > Resources > **Open** resource > Resource Master Data XXX > Cost tab > "**Cost Rate**" button.



Window stamm_arbplatz_costrate_browse.psr

Field description

Field	Description
Cost Rate	Cost rate ID.
Description	Description of cost rate.
Valid from	Valid from (only information).

© 2026 Boyum IT Solutions A/S

Valid to	Valid to (only information).
Save	Save this cost rate? If a cost rate has been saved already, it can be deleted, after the check box "save" was disabled.
Marginal costs	Marginal costs value for this resource and cost rate. If a value is entered, the check box "save" is automatically enabled.
Full costs	Full costs value for this resource and cost rate. If a value is entered, the check box "save" is automatically enabled.

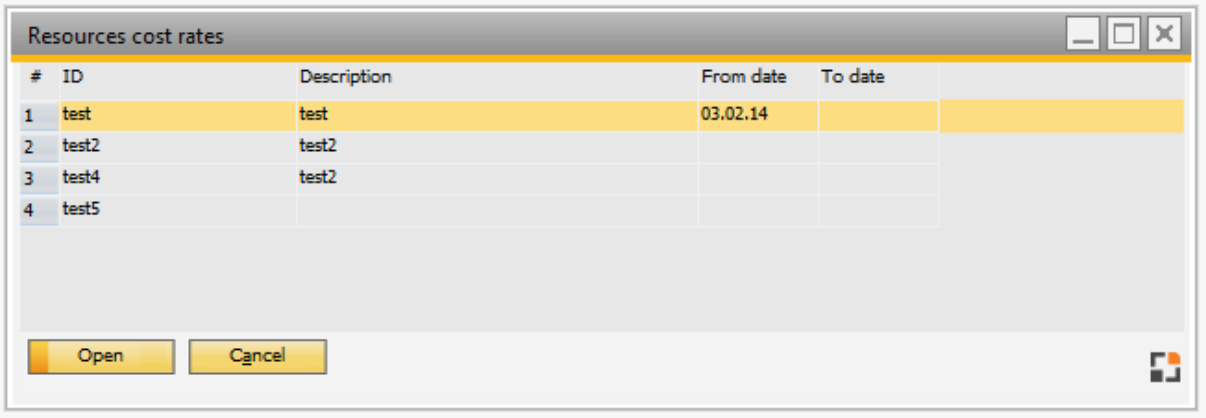
Buttons

Field	Description
Definition	Open window for defining additional cost rates. ***See*** Define cost rates.

beas9.0-000-003-000, *stamm_arbplatz_costrate_browse*

8.1.3.3.2.1 Define cost rates

Additional cost rates can be defined by resource. These rates can be provided with an identifier. In post-calculation you can select which rate to use for valuation.
The definition is accessible in **Resource > Costs > Button "Cost rate" > "definition" button.**
For processing, the authorization "resources" is necessary.



Window stamm_arbplatz_costrateheadbrowse.psr

See Authorizations

© 2026 Boyum IT Solutions A/S

Field	Description
ID	Cost rate ID.
Description	Description of cost rate.
Valid from	Valid from (only information).
Valid to	Valid to (only information).

See

Cost rates

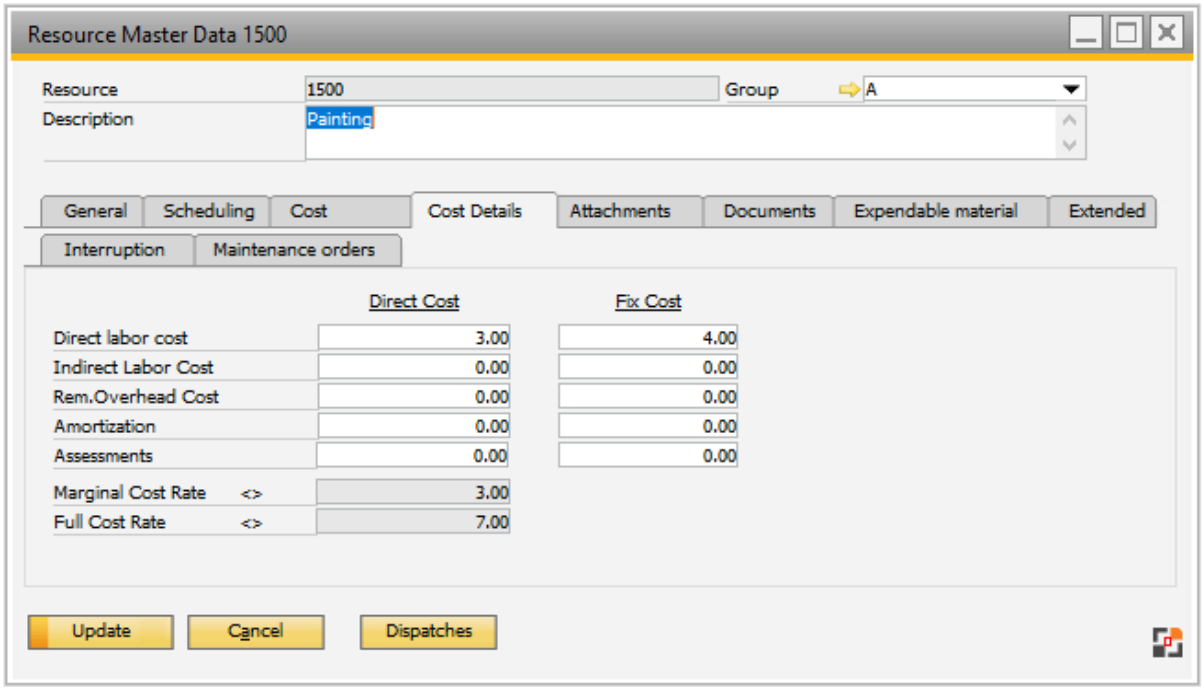
beas9.0-000-003-000, stamm_arbplatz_costrateheadedit, stamm_arbplatz_costrateheadbrowse

8.1.3.4 Cost Details tab

This tab is only visible if **Resource Master > Cost tab > "Expand to cost elements"** field is set to 1.

The marginal and full cost rates can be specified here in further details.
The cost calculated by the system is what you define in the Cost tab.

PATH: ***see*** "Edit resources".



Window stamm_arbplatz_edit.psr

© 2026 Boyum IT Solutions A/S

Note: This tab is only used for information and has no effect on further calculations.

Field Description

Field	Meaning
Direct Labor Cost	Labor Cost.
Indirect Labor Cost	Indirect Labor Cost.
Remaining Overhead Cost	Remaining Overhead Cost.
Amortization	Amortization.
Shares in the Costs	Shares in the Costs.
Marginal Cost Rate	Sum of variable direct costs.
Full Cost Rate	Sum of variable and fixed costs.

See Marginal costs and full costs

back to edit resource

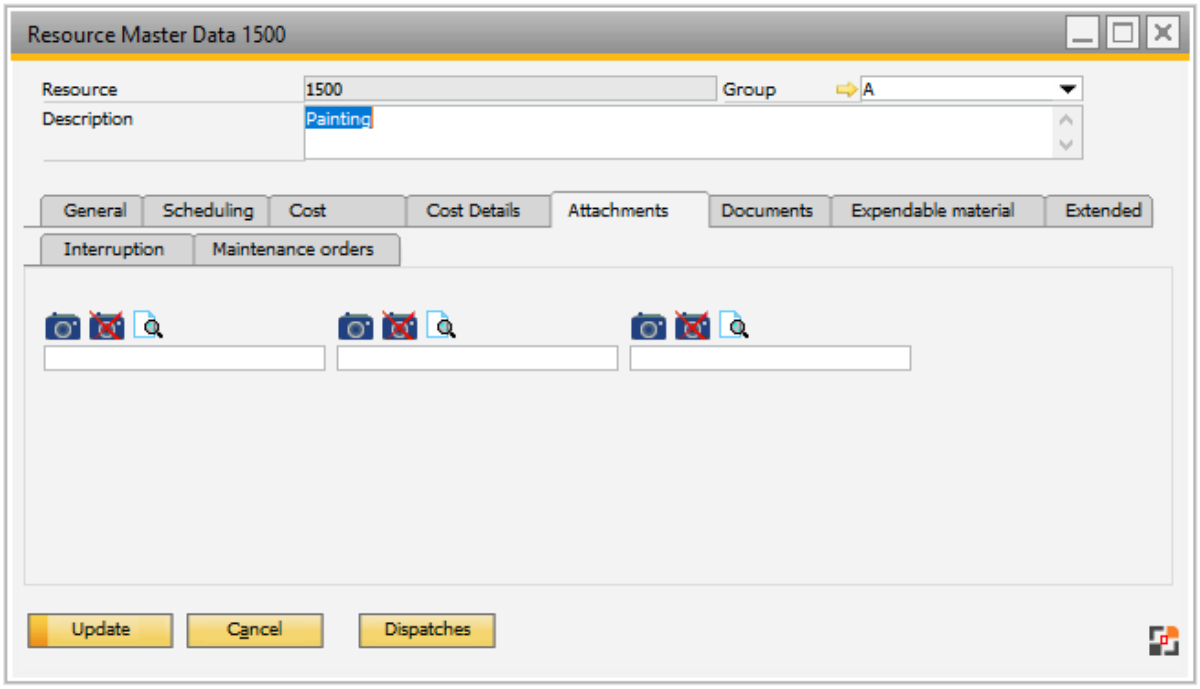
8.1.3.5 Attachments tab

PATH: ***see*** "Edit resources".

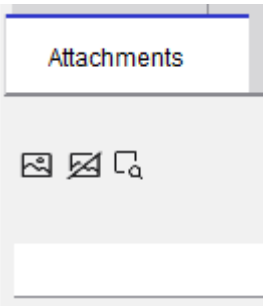
3 images or documents can be stored per resource.

These can be accessed, e.g. at the terminal in production.

© 2026 Boyum IT Solutions A/S



Boyum Style design:



Window stamm_arbplatz_edit.psr

For instance, these can be cleaning, maintenance or repair instructions for a machine.

back to edit resource

see

Window

Data record selection

© 2026 Boyum IT Solutions A/S

8.1.3.6 Documents tab

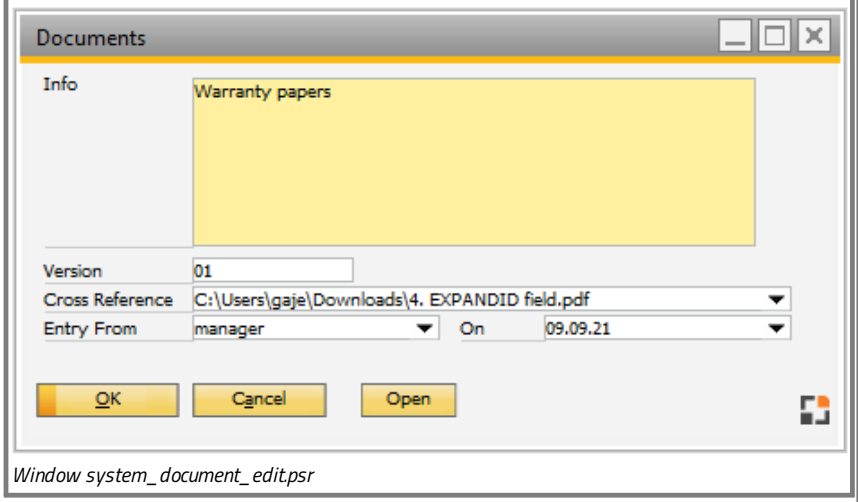
Documents can be stored per resource.

PATH: ***see*** "Edit resources".

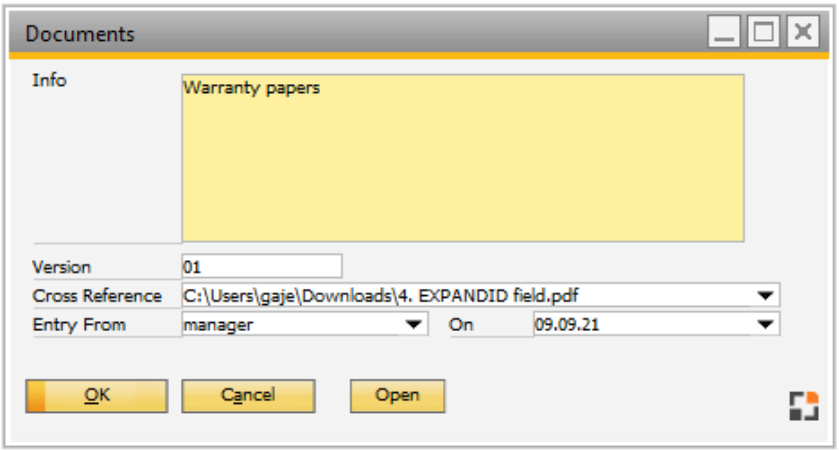
This facilitates locating the tool, among other things; the technical drawings as well as other documents required for a new production can also be stored.

Field Description

Type	Meaning
Info	Input of text information.
Version	Input a document version number.
Cross Reference	Directory and file name of the document.
Available	If active, the document exists. If deactivated, the reference is incorrect or the user does not have access to the specified directory.
Entry by	By using the drop down menu, select the user that added the document.
Entry on	Select the date when the Document was stored.

Type	Meaning
Open	Open selected document line information In this window you can edit several details to store regarding the linked document.  *Window system_document_edit.psr*
Add line	Add new document line

© 2026 Boyum IT Solutions A/S

	In this window you can enter the details to store for a new document.  *Window system_document_edit.psr*
Remove	Remove selected document line.
View	Opens the Window explorer with the document file location.
Update	Save changes.

back to edit resoucre

see

Window

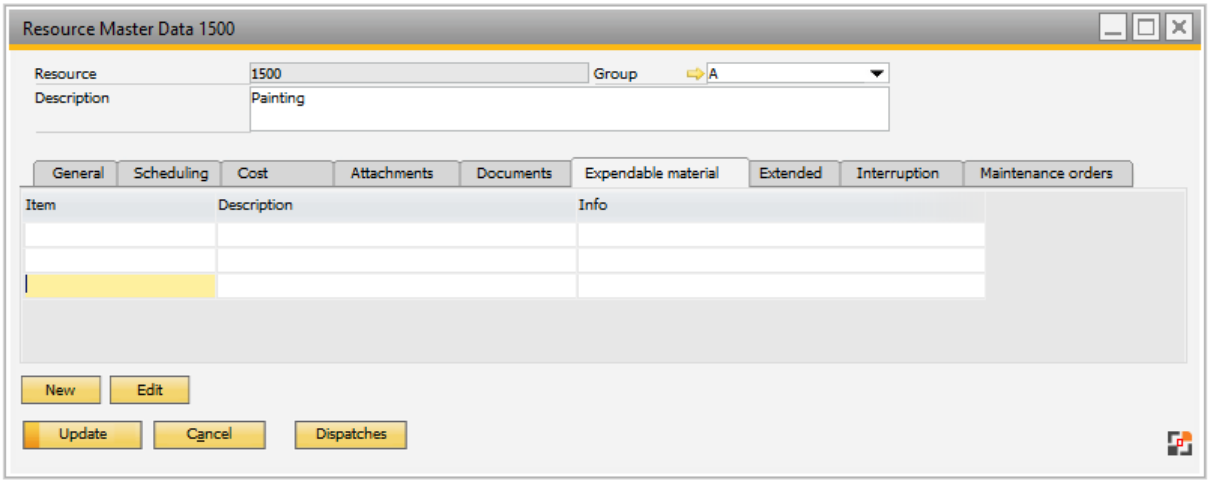
8.1.3.7 Expendable material tab

The continuously expendable material for a machine can be stored here, for example oil, spare parts, etc.

This input is for information only, however, it is also available in the item master under usage report.

PATH: ***see*** "Edit resources".

© 2026 Boyum IT Solutions A/S



Window stamm_arbplatz_edit.psr

Field Description

Field	Meaning
Item	Add Item Number.
Description	Enter priority of the item.
Info	Input further text information.

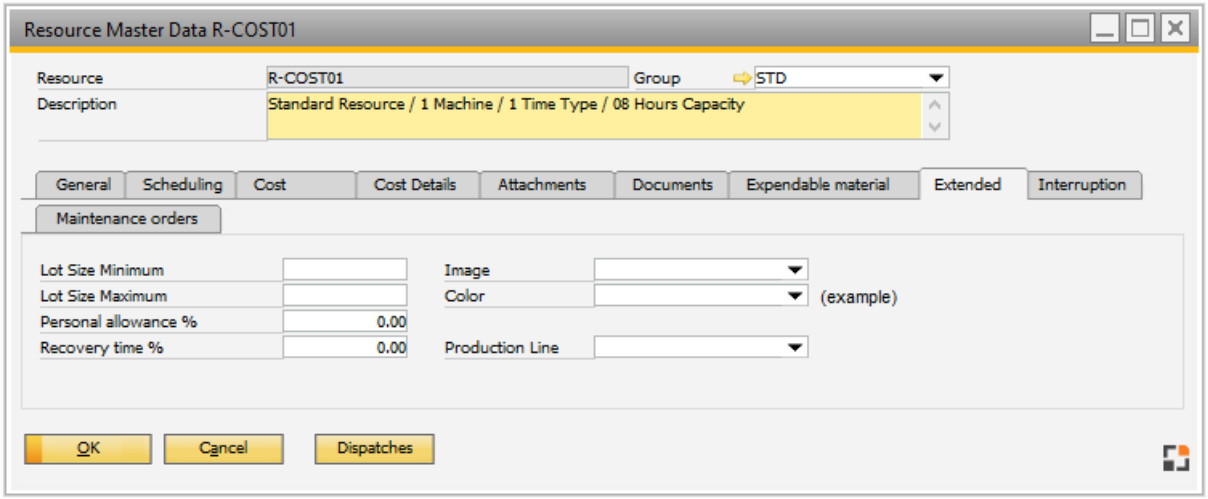
New: Add more lines to edit.

Dispatches: Open the Dispatches window.

back to edit resource

8.1.3.8 Extended tab

PATH: ***see*** "Edit resources".



© 2026 Boyum IT Solutions A/S

Window stamm_arbplatz_edit.psr

Field	Meaning
Lot size Minimum / Maximum	Minimal and maximum lot size, e.g can be used in variant production for further calculation.
Personal allowance and Recovery time %	Percentage of personal allowance and recovery time. Factor for global portion of planned times. These fields are used for the calculation of the Determination of secondary time. ***See*** Concept type times Configuration wizard – Resource – Time types
Picture	An additional picture can be selected to represent the resource.
Color	Select a font color in which the resource will be displayed in work order structure view. Independent from color setting of operation type.
Production Line	Define WMS Production line for the resource. Only visible if WMS is running and Beas production line was defined in WMS. ***See*** further rules and prerequisites in the Beas-WMS integration infopack. **Automatic assignation:** If linked to a work order position, any change in this field is automatically updated in the work order and the WMS Picklist for production window.

back to Edit resource

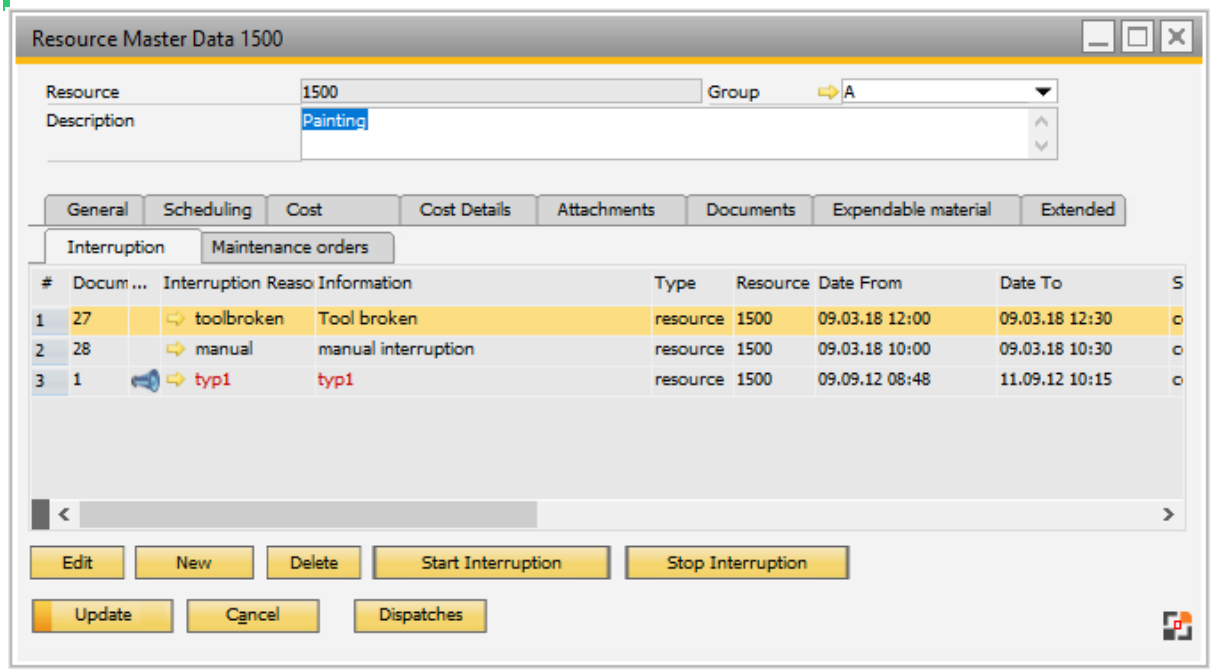
© 2026 Boyum IT Solutions A/S

8.1.3.9 Interruption tab

The reported interruptions are presented in this tab and can also be reworked.
Managing interruptions is not a planning function and does not affect planning capacity.
A future date cannot be specified.

For more information on interruption management ***see*** Interruption Reasons

Resources > Resource Master Data > Double click on a resource or the **New** button > **Interruption** tab



Field Descriptions

Column	Description
Date from	Start of interruption.
No.	Personnel number of employee reporting the start of interruption.
Name	Name of employee.
Date to	End of interruption.
Personnel ID	Personnel number of employee reporting the end of interruption.
Name	Name of employee.

© 2026 Boyum IT Solutions A/S

Column	Description
Interruption Reason ID	ID of Interruption Reason .
Information	Reason for interruption.
Registered by	Specify the person responsible for starting the interruption.
Logged out From	Specify the person responsible for stopping the interruption.
UDF 1–4	Free definable fields.
Origin	The maintenance order linked to the interruption.
Origin Document	
Origin Line	
Origin line 2	
Time continues	Determines if the production time continues, as long as interruption is active. This can be activated e.g. if also costs of the interruption times should run on the current running work order. Youtube *(beas 9.2 PL:00)*

Functions

Field	Description
Edit	Open selected Interruption to edit.
New	Add new Interruption to the resource.
Evaluation button	Button used as shortcut for the interruption report.
Start Interruption button	Start a new interruption. This will open a new window.
Stop Interruption button	Stop an existing interruption. This will open a new window.

See

Personnel – Resources

Edit/Add Interruption

Interruption reasons

WebApp Start Interruption

WebApp Stop Interruption

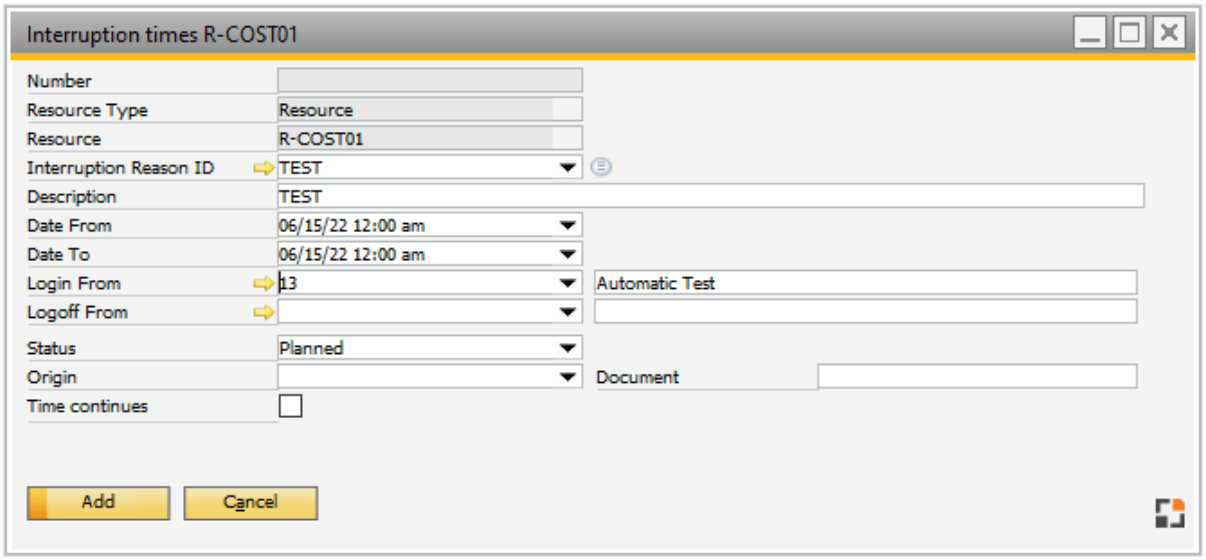
back to edit resource

© 2026 Boyum IT Solutions A/S

8.1.3.9.1 Edit/Add Interruption

Edit or add a new interruption to the resource.

Resources > Resource Master Data > Double click on a resource or the **New** button > **Interruption** tab



Window stamm_arbplatz_stillstandgrund_edit.psr

Field Descriptions

Field	Description
Number	Field used to identify the interruption. This is a counter created automatically by Beas.
Resource type	Field used to specify whether the interruption will be created for a resource or tool.
Resource	Field used to define the resource or tool where the interruption should be created.
Interruption Reason ID	Field used to define the interruption reason. This can be created directly in this tab by clicking on the list button right next to the ID field, or from the setup menu in SAP.
Description	Free text description of the interruption reason. By default this is the description from the selected interruption reason.
Date From	Start of interruption. A day and time can be

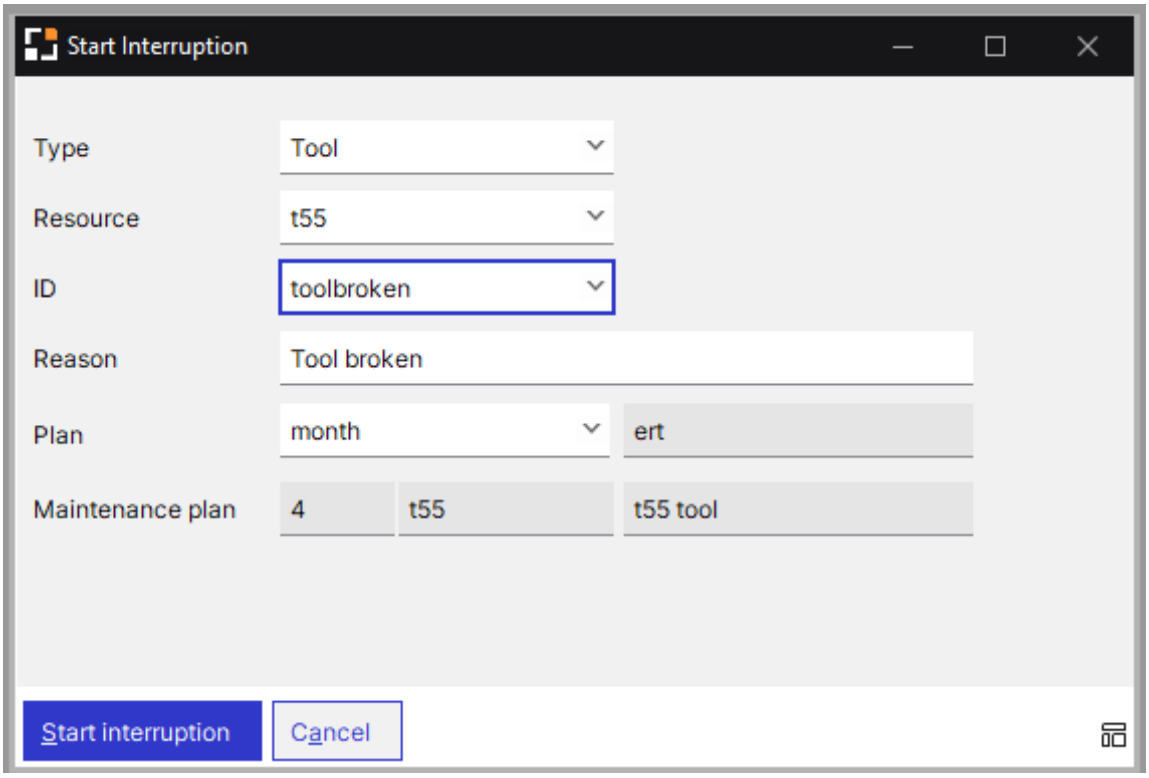
© 2026 Boyum IT Solutions A/S

Field	Description
	defined. By default, the current date is selected. **Important**: This field changes depending on the status. For example, if the status is set to active, the date changes from the current date to 01/01/50 00:00. This is in order for the system to understand that this resource cannot be used before the interruption ends.
Date To	End of interruption. A day and time can be defined. By default, the current date is selected. **Important**: This field changes depending on the status. For example, if the status is set to active, the date changes from the current date to 01/01/50 00:00. This is in order for the system to understand that this resource cannot be used before the interruption ends.
Login From	Specify the person responsible for starting the interruption.
Logoff from	Specify the person responsible for stopping the interruption.
Status	• Planned • Active • Complete
Origin	Include the maintenance order linked to the interruption.
Document	
Time continues	Determines if the production time continues, as long as interruption is active. This can be activated e.g. if also costs of the interruption times should run on the current running work order. Youtube *(beas 9.2 PL:00)*

8.1.3.9.2 Start interruption

To start an interruption, a resource type and an interruption reason is required. When starting an interruption, the time of running operation from the related resource is stopped. With the **Start Interruption** button, the interruption starts.

© 2026 Boyum IT Solutions A/S



Window bde_terminal_stillstand_ein.psr

Field descriptions

Field	Description
Type	Specify whether the interruption is created for a resource or tool.
Resource	Define the resource or tool for which the interruption is created. **IMPORTANT:** This field displays the Resource selected in the operation that the employee is already logged in. If the employee is not logged into an operation, the field displays the resource selected by the SAP user.
ID	Define the interruption reason. This can be created directly in this tab, by clicking on the list button right next to the ID field, or from the setup menu in SAP.
Reason	Insert a description of the interruption reason. By default the description of the selected interruption reason is used.

© 2026 Boyum IT Solutions A/S

Field	Description
Plan	The link of the parent Maintenance order. **NOTE:** When this screen is opened from the Desktop Terminal app, this field is **not** displayed.
Maintenance plan	The link of the parent Maintenance order ID. **NOTE:** When this screen is opened from the Desktop Terminal app, this field is **not** displayed.

See

Personnel – Resources

Edit/Add Interruption

Interruption reasons

WebApp Start Interruption

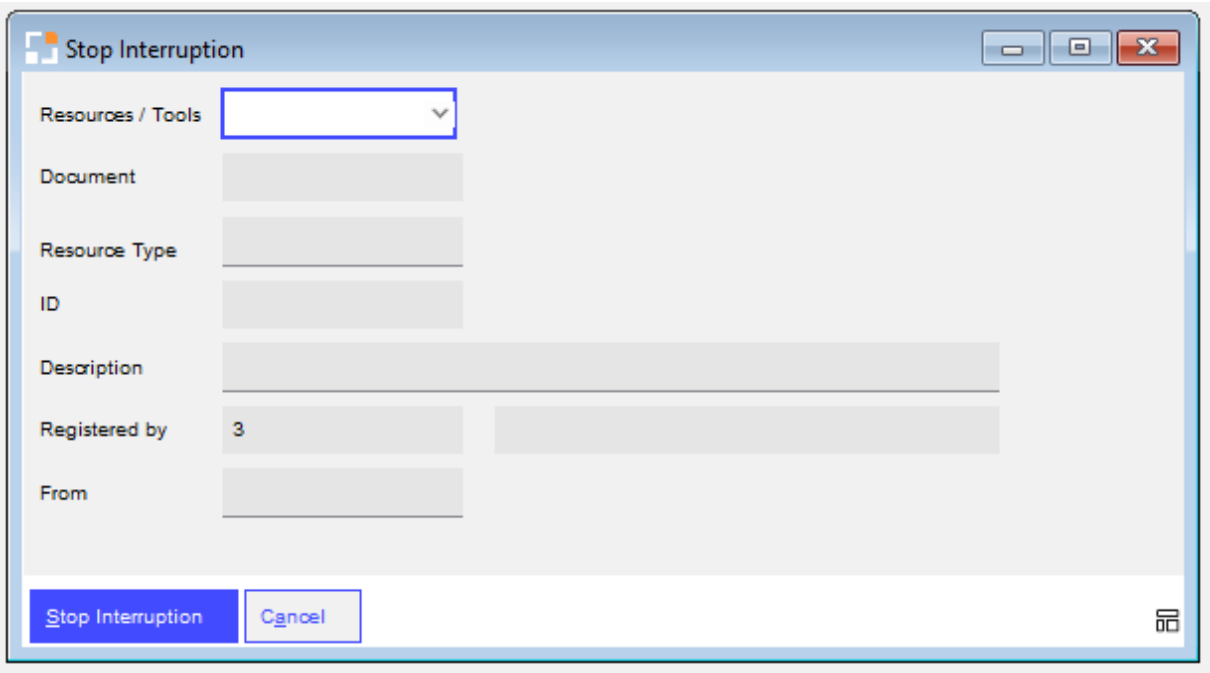
WebApp Stop Interruption

WebApp Pool report

8.1.3.9.3 Stop interruption

If there is no active interruption, the system shows a message. A new window is displayed with the information from the current active interruption. The system automatically knows the user or worker who originally started the interruption. With the **Stop Interruption** button, Beas allows you to stop the interruption. After a refresh of the Interruption tab, the information is updated.

© 2026 Boyum IT Solutions A/S



Window bde_terminal_stillstand_aus.psr

Resource: Select the resource or tool with the interruption. This is the only changeable field in this window.

The following fields cannot be changed and only display information:

- Document: A counter for the interruption.
- Type: Displays the resource type.
- ID: Displays the interruption reason.
- Description: Displays the description of the interruption reason.
- Registered by: Displays the person responsible for starting the interruption.
- From: Displays the start date of the interruption.

See

Personnel – Resources

Edit/Add Interruption

Interruption reasons

WebApp Start Interruption

WebApp Stop Interruption

© 2026 Boyum IT Solutions A/S

8.2 Work order general

In the production (or work) order all the instructions for the planning and production of an item are summarized. In the work order, you can track all bookings and material costs associated with the production process and additional costs, such as staff overheads.

The main window for managing work order is the WO structure view

Work orders
- WO structure view
  - Work order document
- Work orders list
- Assemblies
- WO-lists

8.2.1 WO structure

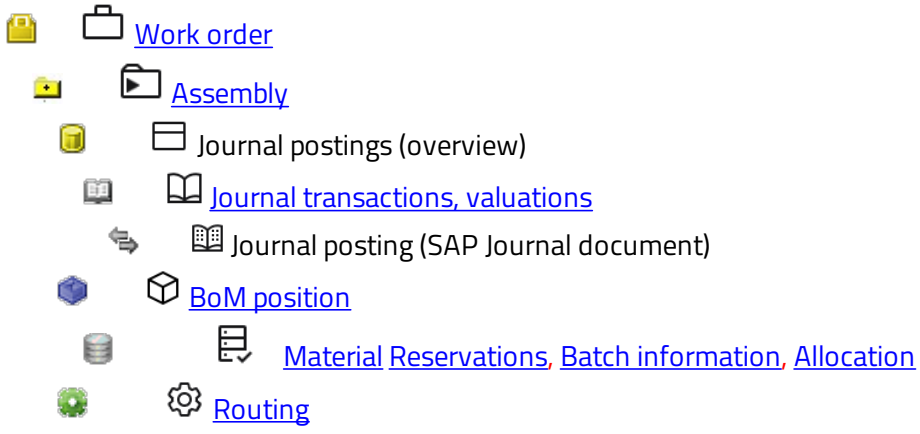
The Work Orders window is the central window for managing all production functions.

PATH: Production > Work Orders.

Work orders
- **WO structure view**
  - Work order document
- Work orders list
- Assemblies

The work orders are shown as a structure.

The second icons in the structure below are displayed in Boyum Style (Beta):



© 2026 Boyum IT Solutions A/S

Time receipt

In this list routings, BoMs, Assemblies, Time receipts can be administrated, added and deleted. Double-click the upper level (black font or marked with an orange bar) and press the **Open** button to open the work order document.

If the work order is not expanded, icons are displayed on the right in column "actual", indicating the current status of the work order.
Right of it, (column drawing number) the utilization of the affected resource is displayed for a selected period in a graphical view.

Window fert_struktur_browse.psr

Notes

Slow buildup
Extensive information is displayed in the WO window. For large databases this may take some time.
Ways to optimize the buildup of the structure view:
1. Reduce the number of rows to be displayed (Template or general setting in Configuration wizard – System)
2. Disable the Extended status display.

© 2026 Boyum IT Solutions A/S

Export to Excel

It is not possible to export the complete, comprehensive information of the structure views.

- Adapt structure view

Structure views are adjustable only to a limited extent. Templates are supported, but not Window settings.

In every row a different data type can be displayed: Work order, Assembly etc. These have different data sources and different columns. Accordingly, separate adjustment is required for every row.

- Work orders:

On the upper level you can work with templates. Define filter and sorting and up to 6 template fields. These fields are not displayed directly, as it is not a dynamically adjustable list.

You can change the visible formula fields instead.

Example:

Show the designation of the assembly in WO level in field "drawing number". Display the drawing number in the assembly.

Template Field 1: `"BEAS_FTPOS"."ItemName"`

Customer-specific script in this window:

```
windowevent open
dw=cfield1.expression="if(zeilentyp=0,templatefield1,znr)"
end event
```

This means:

`cfield1` = object, which shows the drawing number

`zeilentyp` = 0 = work order line

Expression

if `<zeilentyp>` = 0 then show the result of templatefield1, otherwise the drawing number

© 2026 Boyum IT Solutions A/S

- Assembly, BoM and routing

  These areas can be adjusted via **Right-click > third tab > Window settings.**

Meaning of the icons

Work order

Icon	Boyum Style icon	Description
		Work order (different icons for different types, default: orange)
		Second icon – violet dot: the first assembly in this work order is a phantom item – ***see*** Item master > Phantom Item
		Errors in the work order This icon is only displayed if an error occurred during the editing of the work order, for example a DI API error at order time receipt. As long as this icon is visible, the work order is not hidden, even if it has already been completed. The errors must be checked and confirmed. ***See*** WO Structure Work order
		Work order status: printed
		Work order status: logged on
		Blocked
		Not scheduled
		Released and scheduled

There are many context-dependent functions (right-click menu) depending on the line – the type of entry – specific features are available.

Right-clicking above in the window (below the title line) opens the window settings for the structure view. ***See*** Configuration of WO structure view.

Lower buttons

© 2026 Boyum IT Solutions A/S

Button	Description
New	Opens a new record of the selected line. For example, if a work order is selected, a screen opens to create a new work order; if a Bill of materials position is selected, a screen opens to create a new Bill of materials position.
Product Costing Analysis	Creates a temporary post-calculation for the current work order.

For notes on structural view ***see*** Item structure view – Notes

back to work order general

See

Structure windows
Item structure view
Configuration of WO structure view
Item breakdown
Data record selection
Window

Structure search function
Work order structure view – settings

8.2.1.1 WO structure context menu

The work order structure and icons are described in Work order structure.

Right-click menu

Right-click on a work order to get the Beas context menu options with the following tabs:

Traditional style	Boyum Style

1. Context-sensitive basic functions
2. Context-sensitive extended functions
3. Context-sensitive expand functions

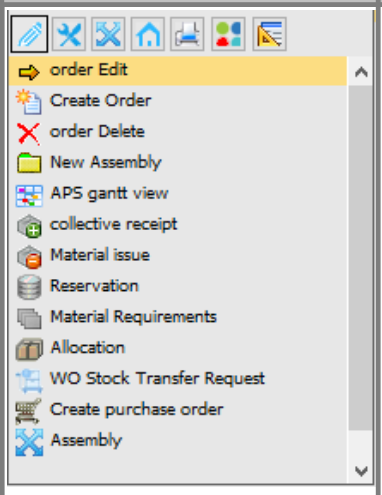
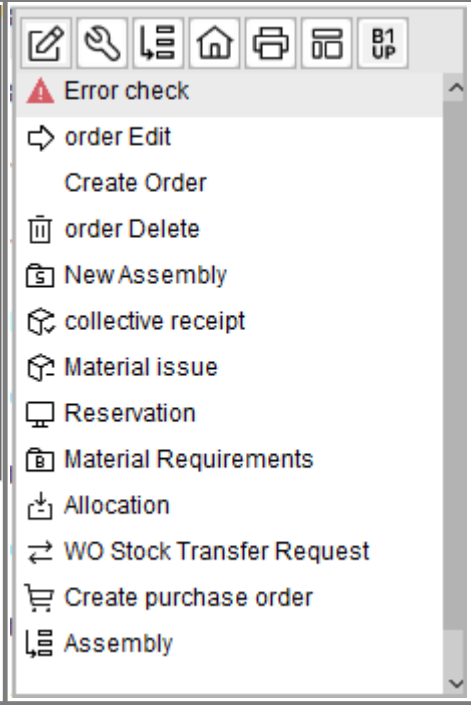
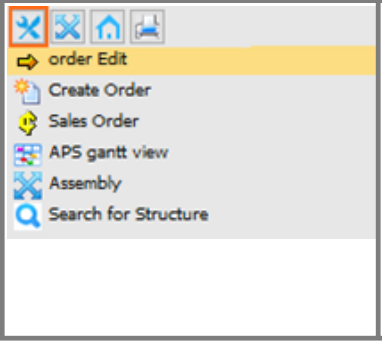
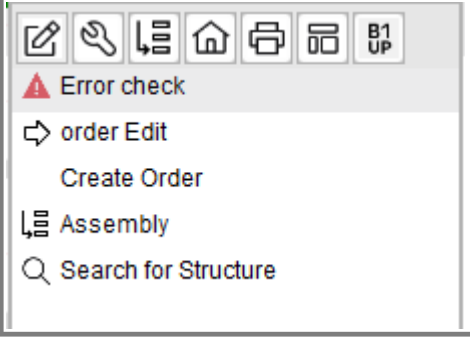
© 2026 Boyum IT Solutions A/S

4. General functions
5. Export functions
6. Template administration (when available)
7. Business One Usability Package (when available)

General, export and template functions are generic in Beas and are described in Right-click menu.

Work order are displayed with black text. The represent the highest level in the work order structure. Right-click on a work order line to see the available context menu options.

1. Right-click menu basic functions on an open and a closed work order

	Traditional style	Boyum Style
Tab 1 Open WO		
Tab 1 Closed WO		

Functions

© 2026 Boyum IT Solutions A/S

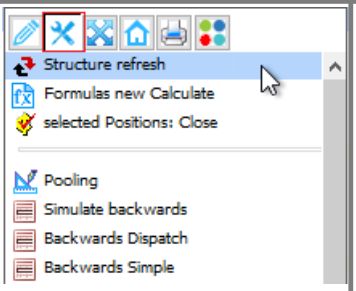
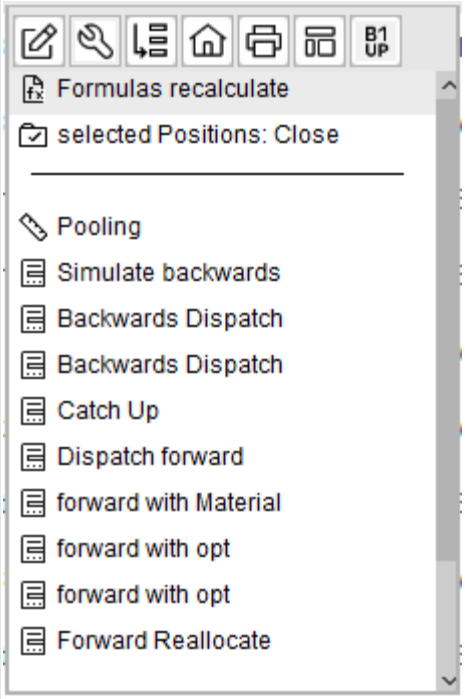
Function	Description
Error check	Error protocol. This option only displayed, if an error occurred during editing the work order, for example, a DI-API-error at the order time receipt. As long as this icon is visible, the work order is not hidden, even if it has already been completed. The errors must be checked. There could be missing or incorrect bookings or journal entries, which need to be corrected. If all errors were marked as read, the icon and the menu option disappears. In the right-click menu, extended functions you can still view the protocol.
order edit	Edit the work order.
Create order	Create a new order.
order delete	Delete the order. Can only be used if no report has been received on the work order up to this point.
New Assembly xx/xx	Insert a copied assembly to this work order. The assembly is inserted with the original quantity directly in the work order. ***See*** WO Structure copy assembly
Sales Order no. X	If there is a link to a sales order, it can be opened directly.
APS Gantt view	Open the Gantt view of the selected work order.
Material issue	Open the Reservation / issue window.
Reservation	Open the Reservation window.
Material requirements for Assembly	Open the Material requirements list. Only available if Material Requirements with Purchase order is activated in the Windows settings of the WO structure view.
Allocation	Open Allocation list.
WO Stock transfer request	Opens the Work Order Stock Transfer Request window. only if activated in WO structure view - Window settings - Inventory transfer request Open the Transfer request window.

© 2026 Boyum IT Solutions A/S

Complaint create	Opens the internal complaint window. This option is only available if a) a receipt on a work order position is available b) a receipt was canceled
Create purchase order	Opens the External production > collective purchase order. Click to create purchase order for the routing position. For more details ***see*** External Production.
Link serial number	Open the screen to link material batches/serial numbers to manufacturing items.
Search for structure	Allows a search in the production structure. Does not only search on the item level, but also for parts of a bill of material or child bill of materials. If the search term is found, the structure is opened at the appropriate location and the cursor is placed at that point. Only a certain fields, such as item number, drawing number and match code can be searched. Structure search function

2. Right-click menu extended function of a work order

© 2026 Boyum IT Solutions A/S

	Traditional style	Boyum Style
Tab 2 Open and Closed WO		

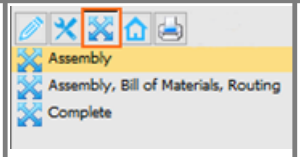
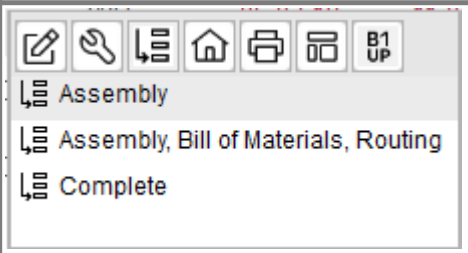
Functions

Function	Description
Structure refresh	Selected work orders are refreshed. ***See*** Work order item - Function Refresh. This function is only visible if at least one item is selected (Ctrl or Shift + Click), and if it is **not** disabled in the Configuration wizard. ***See*** WO Refresh settings.
Formulas new calculate	Re-calculate all stored formulas for the selected work orders. ***See*** Work order item - Function re-calculate formulas. Function is only visible with at least one item marked (Ctrl or Shift + click)
Selected positions:close	Close selected items / work orders.
Pooling	⊟ Opens the pooling window. The Pooling window is opened, to recalculate the pool. This function is only visible if Capacity planning is activated.
Simulate backwards Backwards dispatch Dispatch forward reallocate forward Catch up	⊟ Runs the selected scheduling type. Only visible if Capacity planning is activated and an APS license is available on this station. All stored calculation types are displayed.

© 2026 Boyum IT Solutions A/S

	If a calculation type is chosen, all selected work orders are recalculated. This calculation type is saved in the work order. When the work order is changed, this calculation type is used again for automatic rescheduling. ***Also see*** Calculation types.
Error – Protocol	All protocol entries and error messages for the work order are displayed here.
Error – Protocol	Open error log for this work order. This function may be needed if all errors have been cleared, but a subsequent check is required.
Status error delete	Delete error status. Can be used if the log was removed or the error status was set without reason and could not be cleared. Only visible when the error status is active. *(beas9.0-000-003-002)*

3. Right-click menu expand function of a work order

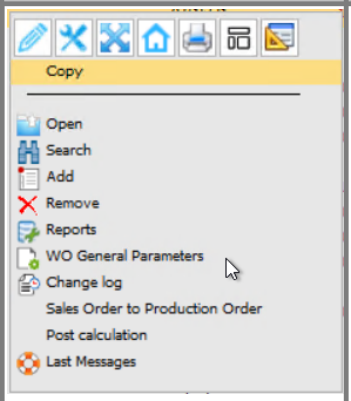
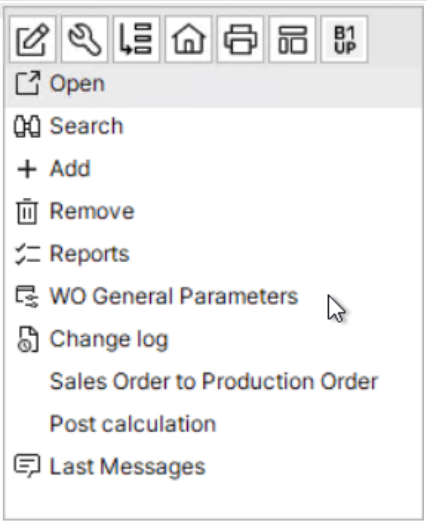
	Traditional style	Boyum Style
Tab 3 Open and Closed WO		

Functions

Function	Description
Assembly	Expand the assembly only. In the Configuration wizard you can define the maximum number of positions to be displayed per work order.
Assembly, BoM and routing	Expand the assembly, BoM and routing.
Complete	All positions of the selected work order are expanded **Note**: Complete expansions of a structure can take long. It is recommended to select the assembly and use complete expansion only for this one assembly. As an alternative, you could use structure search or the simple structure display in Work orders - Assemblies instead.

© 2026 Boyum IT Solutions A/S

4. Right-click menu basic functions of a work order

	Traditional style	Boyum Style
Tab 4		

Functions

Function	Description
Open	Open Work order for editing.
Search	Search for
Add	Add new Work order
Remove	Remove selected Work order
Reports	Open Work order reports.
WO General parameters	Opens the window to modify the general parameters of a Work Order.
Change Log	Open the Change log.
Sales Order to Production Order	Open the Sales Order to Production Order window.
Post calculation	Open the Post calculation function.
Last messages	Information on when the last FDC report was carried out.

See Configuration of WO structure view

© 2026 Boyum IT Solutions A/S

8.2.1.2 WO structure Assembly

Entries in brown – second level in work order structure.

Icon	Boyum Style	Meaning
		Assembly. Click on the small + to expand Bill of Materials and routing. Click on the sign left to the + to display the associated sub-assemblies.
		One of the following settings is disabled in the item master: capacity/material planning, login to work order, material posting.

Right-click opens the following menu:

Right-click on Assembly 1. Basic functions

Function	Meaning
Assembly edit	Edit the assembly.
Alternative Item	Opens selection of alternative items for this position (if deposited).
Print	Opens the print menu (macro).
New Assembly	Add an assembly to this work order. Upon saving, all order-related sub-assemblies (marked with a green clip) are also included. Stock-related sub-assemblies are only inserted as BoM items.
Copy Assembly	The assembly is marked as "to be copied" and can then be inserted below another assembly or into another work order.
Insert Assembly xx	Insert copied assembly. The assembly previously selected for copying is inserted below the marked assembly. A BoM position is created inside this assembly and the copied assembly is inserted to this position. The new BoM position receives the quantity of the original assembly. The inserted assembly receives the BoM quantity multiplied with the quantity of the superordinate assembly. Note: The entire assembly structure is copied including BoM, Routings and tools.

© 2026 Boyum IT Solutions A/S

	Alternatively, the assembly can also be inserted directly in the work order. ***See*** WO Structure Work order
New Bill of Materials Position	Create new Bill of materials position for the selected production position.
New Operation	Create new position for the production position.
[Assembly] receipt	Assembly is posted in Manual entries.
[Assembly] issue	Open the Material issue window to issue the required material for this assembly.
Collective post-in	Working with negative BoM positions (dis-assembly, by-products) you can post in via Collective posting.
Allocation structure for pos	Opens the list of allocations for this position.
Material requirement for assembly	Open the Material requirement list.
Invent. History	Open the Inventory history.
Expand assembly, BoM and routings	Expand all BoMs, routings and assemblies below this assembly.
Search for structure	***See*** above.

Right-click on Assembly 2. Extended functions

Function	Meaning
Update Assembly Quantity	Recalculate planned quantities of sub-assemblies If the work order is revised manually and the quantities are changed for BoM entries for example, then the quantity specifications of the sub-assemblies that depend on the BoM positions are not automatically updated, since an automatic update is not required in this case. This function is used to adjust the quantities of the sub-assemblies to the BoM quantities. **NOTE:** Use this function only if there is but one assembly assigned to a BoM position.

© 2026 Boyum IT Solutions A/S

	Example: If a lot size was stored in a sub-assembly and you set up the lot sizes to be considered in sub-assemblies in the options, it is likely that more than one sub-position is created for one BoM position. In this case, only the first position is determined at calculation.
Split assembly	The assembly is split into two work order positions
Clear WIP account	The account for Work in Progress is cleared.

A click on an assembly line in the structure view opens the window work order item.
A right-click above in the window (below the title line) opens the window settings for the structure view. ***See*** Configuration of WO structure view.

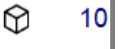
back to work order general

8.2.1.3 WO structure BOM

In work order structure the lowest level – material entries – are in blue color.

Note: If the work order position has been closed, or "Allow changes" was disabled, or authorizations are missing, all editing functions are disabled.

Bill of materials and operation sequences

Icon	Boyum Style	Meaning
		BoM position ***See*** Production – BoM item. Note: Another icon can also be stored in the BoM which, then, is displayed here.
		BoM position confirmed manually or by confirmation with full actual quantity.
		BoM position with posting ID "automatic" - a capital "*A*" letter in italics right top of the position number - is posted automatically (backflushed).
		BoM position is assigned to an operation sequence. The number refers to the operation sequence. In combination with the posting ID A: the material is posted automatically, at the moment a time receipt is created for this operation. **Note on phantom items**: When a phantom parent item has a routing link, all sub-assemblies apply the same definition of the parent.

© 2026 Boyum IT Solutions A/S

		A violet dot indicates, that this BoM position was created from a phantom assembly. (in master data – tree view the dot means, the BoM position is a phantom item (of type phantom assembly).
		Status marker appearing right of the planned quantity: Charge-off batch inventory from the remaining amount. ***See*** "Issue batch remains..."
		Negative BoM position.
		Link: production receipt is linked to a customer (Sales) order or to a work order position. **Note:** This information is only displayed when the actual item is "stock-related", as this piece of information is related to reservations. Sales order links are not displayed for non-stock items.
		Tool.
		Tool with activated switch "determines lead time".
		Parallel operation (in structure view marked with parallel lines additionally) ***See*** Production routing**:** Parallel Resource.
		Alternative resource ***See*** Production routing > Alternative Resource.
		Exchange material with alternative material. A list is created which displays alternative materials after clicking on it. The item in this BoM position is exchanged when selecting a material. Alternative item can be defined in Item related: SAP B1 > Item > right-click > Alternative item. BoM related: Beas BoM > Edit > right-click > Alternative Material NOTE: The action of exchanging a material with an SAP Alternative item cannot be rolled back.
		Allocation in right-click menu. Allocated goods are displayed in the structure with the icon.
 	 	Reservation: **Traditional style**: Gray: goods reserved, but planned quantity not reached. **Boyum Style**: Empty barrel: goods reserved, but planned quantity not reached.

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style
Green: required planned quantity reserved.	Barrel with a check mark on the bottom right: required planned quantity reserved.
Red overflown: too much reserved.	Barrel with an exclamation mark on the bottom right: too much reserved.

Pending quantity to be picked by WMS

When creating WMS pick lists for reserved batches in Beas, the icon represents the quantity pending to be picked by WMS.

Beas can display Pick lists with Status "Ready", and "Not Ready". In this latter case, the WMS reservation is displayed without bin location information. ***See*** image and tables:

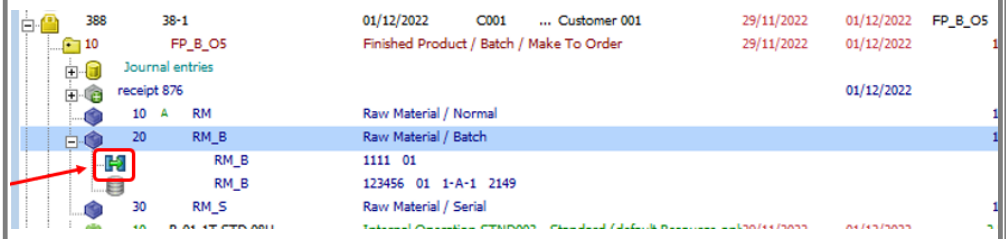
Example:

WMS "Not Ready" status

RM_B	Item code
1111	Batch number
n.a.	Warehouse number
n.a.	Bin location number
n.a.	RFID (Beas) or LUID (WMS)

WMS "Ready" status:

RM_B	Item code
123456	Batch number
01	Warehouse number
1-A-1	Bin location number
2149	RFID (Beas) or LUID (WMS)



See Work flow video:

© 2026 Boyum IT Solutions A/S

See Work flow written in bullet points in integration documentation.

See Reservation system.

Right-mouse menu over Bill of materials position

- Note on editing BoM

  All change options are hidden if the work order position has been confirmed or "allow changes" was disabled in the work order position or if you have no authorizations.

Function	Meaning
BoM Item edit	The selected position is edited ***See*** Production – BoM item.
New BoM item	Inserts a new Bill of materials position.
BoM Item delete	Deletes the selected Bill of materials position. If it is impossible due to existing time receipts or postings, the program offers to close the position. Items for which this is possible are deleted, and the others are closed. Open (only logged on but not finished) time receipts are deleted, as well.
New Operation	Inserts a new operation.
Item edit	Edit the selected item (master data).
Material issue	Charges off the material of the current BoM position, ***see*** manual entries.
Material receipt	Creates a Goods receipt for the material of the current Bill of materials position.
Reservation	Opens the Reservation window for this position.
Material requirement	Opens the Material requirement list.
Allocation	Opens the Allocation window for this item.
Invent. history	Opens Inventory history.
Search for structure	***See*** above.

Double-click a line to open the window to edit the BoM item. Changes in BoM for this work order do not affect the master data.

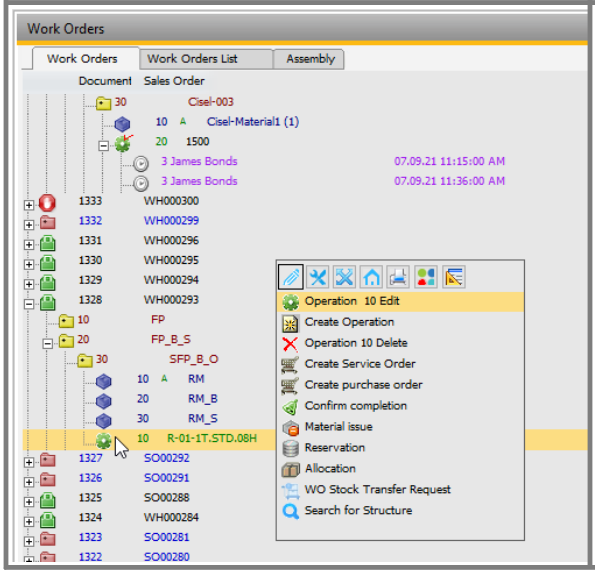
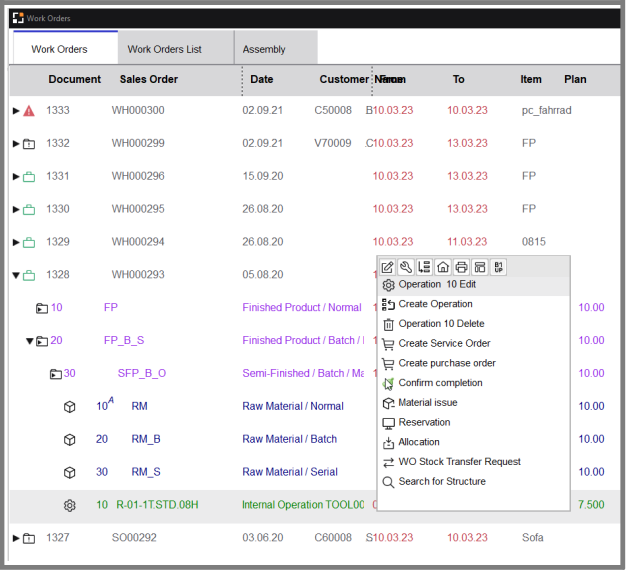
© 2026 Boyum IT Solutions A/S

Right-click above in the window (below the title line) opens the Window settings for the structure view. ***See*** Configuration of WO structure view.

back to work order item

8.2.1.4 WO structure operation

Lower level in work order, entries in green.

Traditional style	Boyum Style
	

Note: If the work order position has been closed, or "Allow changes" was disabled, or authorizations are missing, all editing functions are disabled.

Right-click on operation

Function	Meaning
(External) Operation xx Edit	Click to edit the currently selected operation or external operation.
Create Operation	Insert new operation.
Operation xx delete	Deletes the operation.
Insert xxxx/xx/xx from 01.01.21 11:05	Insert the time receipt that was cut from under another operation.
Confirm completion	Available if Operation types > "Only confirm OK" setting is enabled.

© 2026 Boyum IT Solutions A/S

Function	Meaning
Consider number of days: X	Defines the number of calendar days that are used when displaying resource utilization for the current view without changing the standard setting. After reopening the window, the system returns to the standard setting.
Dispatches graphical view	Displays the graphical overview on utilization.
Dispatches	Shows all planned time reservations for this resource. The reservations are deposited behind the operation.
Search for structure	***See*** above.
WO Stock transfer request	Opens the Work Order Stock Transfer Request window. only if activated in WO structure view - Window settings - Inventory transfer request Open the transfer request window.
Create Service Order	Create Service Order for this operation.

Click an entry to edit.

Routing link for phantom items:

When a phantom parent item has a routing link, all sub-assemblies apply the same definition of the parent.

If a tool is assigned to the operation, it is displayed below.

Icon	Boyum Style	Meaning
		Tool.
		Reference: receipt from production is linked to a sales order or to a WO item.
		Tool with enabled switch determines lead time.
		Parallel operation.
		Alternative resource.

© 2026 Boyum IT Solutions A/S

	Alternative operation sequence with alternative resource.

Right-click on tool

Function	Meaning
Edit operation position	Edit currently selected operation.
Modify tool	Open tool master data.

Activate tool	The tool is activated for this operation.
	Activate or de-activate the tool. All rules are considered as:
	- determines lead time
	- only one tool active
	See Tool management.
	
	Note: If there are several tool entries which affect lead time, only one tool can be activated. In case of activation, all time values stored in the tool are transferred to the routing position. Empty values in the operation are not changed.
	
	Tool entries without the "determine lead time" feature enabled can be activated in parallel.
	
	User events
	With the following User events you can manipulate the behavior:
	`windowevent pretoolactivate` before activation/De-activation. The process is canceled with "return failure". In variable "`e_activ`" you can store whether the toll should be activated (=1) or de-activated (=0).
	
	Example:
	Only user "manager" is allowed to change:
	`windowevent pretoolactivate`
	`if <currentuser> <> manager then`
	`  return failure`
	`end if`
	`end event`

© 2026 Boyum IT Solutions A/S

	`windowevent posttoolactivate` is called after the process.

The structure view is dynamic, depending on the function (BoM, material postings, QC-order) different information is displayed. But the column header remains the same.
Operations are displayed in green. ***See*** overview on operation types.

The following information is displayed in the line of an operation:

Column	Description
Sales order	Icon Operation type right to it position number, resource ID.
Name	Activity description.
From	Start of processing time (without idle time, transfer).
To	End of processing time. Colors: Date gray: operation is already closed or outside the period Date red: operation in the past (too late). The WO will not be finished in time
Plan	Planned time: Calculate from the planned quantity * process time / Efficiency rate % + setup time. Already reported amounts or times are not pulled off. Note: The unit of time to be displayed is adjustable in the Configuration wizard.
Current	Already reported times.
Drawing number	Shows dispatches of the related resource.
Type/Scrap	Reported yield and scrap quantity for this position. For external operations the sum of all goods receipts is displayed.
Match code	Pool info: active or inactive. "Optional" for operations which do not need to be reported.

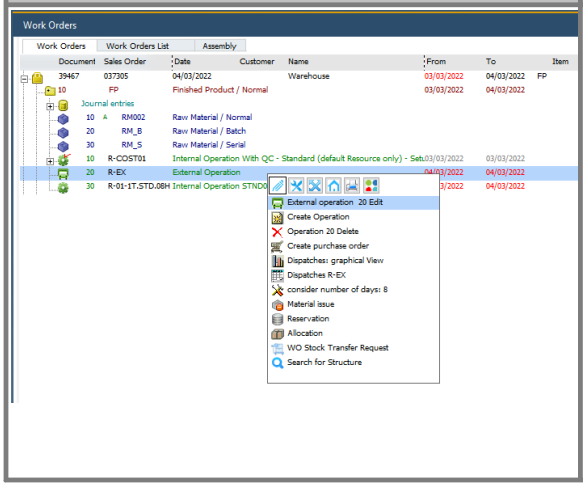
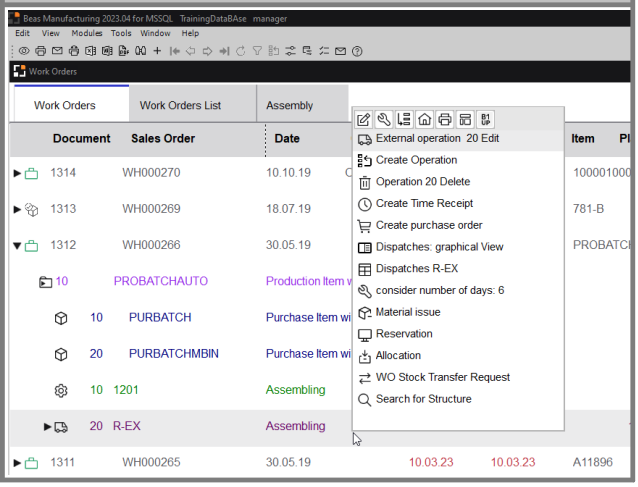
Below the operation several changes can be displayed.

Right-click above in the window (below the title line) opens the window settings for the structure view. ***See*** Configuration of WO structure view.

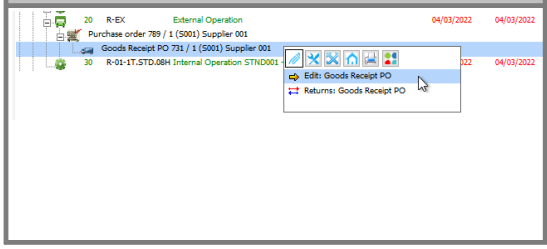
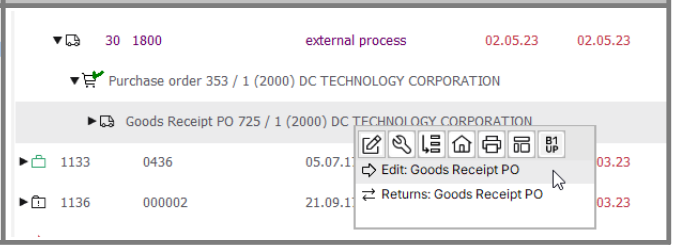
© 2026 Boyum IT Solutions A/S

8.2.1.5 WO structure External operation

Lower level under work order position, entries are displayed with a green truck icon / in **Boyum Style**:

Traditional style	Boyum Style
	

For basic, operation related **Right-click menu** options ***see*** WO structure operation.

Traditional style	Boyum Style
	

Right-click entry	Description
Create purchase order	Create a purchase order for the external operation.
Edit: Purchase order	Edit the Purchase order.
Provisions	If the operation has linked material, this option is displayed and you can open the External Production - Deliver provisions window.
Provisions XXX: Reopen	Reopen the created provisions document.
Goods receipt from external production	The option appears in the right-click menu only after the provisions document was closed. It is displayed in the right-click menu if there is no

© 2026 Boyum IT Solutions A/S

Right-click entry	Description
	material linked to the operation. Opens the External Production - Goods Receipt XXX window.
Goods Receipt PO XXX	Open the created External Production - Goods Receipt XXX window.
Edit: Goods Receipt PO	Open the External production > collective purchase order. Only available if purchase order was created for the parent, external routing position. For more details ***see*** External production – Goods Receipt.
Returns: Goods Receipt PO	Cancel the Goods Receipt Purchase order Only available if purchase order was created for the parent, external routing position. When selecting this option to cancel the Goods Receipt PO, a query window pops up to confirm quantity, then the following system message appears: *'Should goods receipt PO XXX be canceled?'* **Attention:** When canceling a Goods Receipt purchase order, the materials are **NOT** returned to the warehouse. Therefore, the material issue is not canceled with it, as the material has already been consumed.
Issue provision parts	Open the External Production – Issue provision window. This option only appears when material is linked to the operation.

See External production

8.2.1.6 WO structure QC orders

In WO structure quality control orders are displayed below the respective operations. The following icons are used:

Quality control

Icon	Boyum Style	Meaning
		QC-Order (Head).

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Meaning
		QC-Order measurement position.
		QC-Order open.
		Single QC-Measurement position.
		Batch (receipt or issue).
		Serial number.

Conditions for QC order creation can be set up in the Configuration wizard.

Administrate Quality control order.

back to WO Structure

8.2.1.7 WO Structure Material postings

On material level information on batches and serial numbers, the material requirement, postings and reservations are displayed.
Double-clicking on the posting line opens the posting document (user needs authorization "MW Journal").

Status icons for material

Icon	Boyum Style	Meaning
		Batch (incoming, or outgoing).
		Serial number.
		Reservation:

Traditional style	Boyum Style
Gray: goods reserved, but planned quantity not reached.	Empty barrel: goods reserved, but planned quantity not reached.

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Meaning
		Traditional style / **Boyum Style** Green: required planned quantity reserved. / Barrel with a check mark on the bottom right: required planned quantity reserved. Red overflown: too much reserved. / Barrel with an exclamation mark on the bottom right: too much reserved.

Below the material posting the journal entry is displayed.

Postings

Icon	Boyum Style	Meaning
		An assembly has been posted already. If this is a batch or serial number related assembly, a batch or serial number-related material can be linked to it. ***See*** Batch tracing, Serial number tracing, Linking batches / serial numbers.
		Material has been charged off already.
		All journal entries for this work order. (user needs authorization (Journal entries). ***See*** Journal.
		%PROGRAMNAME%> Journal. Entry displayed below the / . ***See*** Journal.
		SAP-account movement (Journal) displayed below the → / →
		Right of planned quantity: a value was entered in "Issue batch remains..."

Right-click on posting entry

Function	Meaning
Cancel: xxx	Opens the Cancellation window.

© 2026 Boyum IT Solutions A/S

This function is displayed at material issue or at posting in assemblies. A posting document, a serial number or a batch posting can be canceled.

Note: Correct WIP accounting works only using the cancellation feature, as well as a correct valuation of later postings.

- Post in assemblies

  Only possible with single postings. The cancellation feature is only available by clicking on the batch or serial number. Upon clicking, the material issue window is opened in a special cancellation mode.

  Note: A cancellation is always performed at the valuation method selected for the item if continuous stocktaking is active.

  Example:
  Item valuation method "Average price", continuous stocktaking enabled.
  Item was received with a price of 2000€, an average price of 1500€ has been determined. If canceled now, the price will be 1500€.

  Reason: Beas uses the issue object of SAP Business One. SAP Business One would post the amount of difference between valuation price and issue price to a difference account which is unwanted in this case.

  The problem occurs not if
  - working with valuation method "Standard price"
  - continuous stocktaking is disabled.

- Issue material

  For material postings, the complete document can be issued at once. A special Cancellation window is opened.

© 2026 Boyum IT Solutions A/S

Batch tracing	For batch items: Open batch tracing. Depending on window settings in structure view, a simple variant of that feature is available. In this respect, posting entries are displayed right below the batch. For restrictions ***see***: integrated batch tracing.
Provision	For provision parts: open linked provisions.
External production goods receipt	Open Goods receipt for external production items.

Right-clicking above in the window (below the title line) opens the window settings for the structure view. ***See*** Configuration of WO structure view.

8.2.1.7.1 WO structure allocations

In WO structure, the allocations are displayed below the respective material. The following icons are used:

Right-click button on allocation

Function	Boyum Style	Meaning
Material issue		***see*** Material issue.
Material receipt		Material receipt.
Transfer back to warehouse		Collective cancellation on multi-select allocations. + All linked reservations are deleted too.
Cancellation: Allocation		Manual cancellation.
Batch tracing		***see*** Batch tracing.

The System supports WMS, SAP and Beas Bin Managed warehouses *beas 9.3 PL 2 HF 2*

© 2026 Boyum IT Solutions A/S

back to WO structure BoM

8.2.1.7.2 Serial Number Reservation

You can reserve serial numbers immediately while creating work orders. To do this, activate serial number reservation under **Administration > Configuration wizard > Production > Valuation and Posting of assembly > serial numbers.**

With the automatic serial number generation in Beas, the corresponding serial numbers are generated and stored for the work order if the finished part is a serial number-managed item. Manual reservation of serials is not possible, but the system makes it possible to create a new Serial reservation in the material issue window.

The assigned serial numbers are visible in the production structure view under the position, regardless of how the work order was created (manually, from a customer order, or from a calculation).
If a position is deleted, the assigned serial numbers are also deleted and are no longer available. If the number is changed, the number of assigned serial numbers is adjusted. If the number is increased, the new serial numbers are added; if reduced, the last serial numbers are removed.

Goods receipt of finished goods

If a production position is received by manual entry, selection of the serial numbers opens automatically after entering the number of units. The corresponding quantity of serial numbers is pre-selected. The actual number of entries corresponds with the quantity of selected serial numbers.
It is not possible to receive more goods than the available quantity of serial numbers. Based on the reserved serial numbers, the confirmation is blocked when trying to report a higher quantity. In the event of overproduction, therefore, the number in the work order must be increased in advance.
Received serial numbers are marked as received in the structure view.

Reserved serial numbers can be changed retroactively, as long as they have not been posted. The editing window is opened in **Work order structure view > expand and double-click on "reserved serial numbers“ > double-click.** Click on edit to edit the numbers.

Cancellation entry

If a serial number is re-issued on a work order basis, the serial number in question is reset to "unreceived".

Backflushing

© 2026 Boyum IT Solutions A/S

If you enter the finished goods by backflushing or reporting the last operation, the serial numbers are determined automatically. The smallest serial numbers are posted first. If the quantity of reserved serial numbers is insufficient, new serial numbers are determined for the excess quantities.

Note to Issuing serial numbers:
If the option "also post serial numbers" was enabled, you only need to define the serial number to which the material will be posted.

NOTE: It is recommended to switch this option to "manually" to prevent automatic pre-assignment.

See

Material issue – Serial numbers
Configuration wizard – Material – Backflushing – Serial numbers
Serial number tracing
WO structure – Serial number reservation

8.2.1.7.2.1 WO reservation of serial numbers

If serial number reservation is enabled, or a reservation was entered manually, reserved serial numbers are displayed below the assembly.

On first level only the number of reserved serial numbers is displayed.

Icon	Boyum Style	Meaning
		xx Serial numbers reserved.

Expanding the first level, the single numbers are displayed:

Icon	Boyum Style	Meaning
		(without red check marks): serial numbers reserved, but not yet posted in and linked.
		(with red check marks): serial numbers already posted in.

The material that was linked to the serial number is displayed below.

Serial number administration

© 2026 Boyum IT Solutions A/S

By double-clicking, an administration screen opens providing the following options:
- Change serial numbers manually (only if not booked)
- Delete serial numbers (only if not booked)
- Insert new reserved Serial number

Already posted entries are displayed in gray. They cannot be changed or deleted.

Note: The system does not check if the entry is correct. If you insert an existing serial number, which is on stock, it will produce an error message in the receipt document.

Access: You need rights for Managing time receipts

See

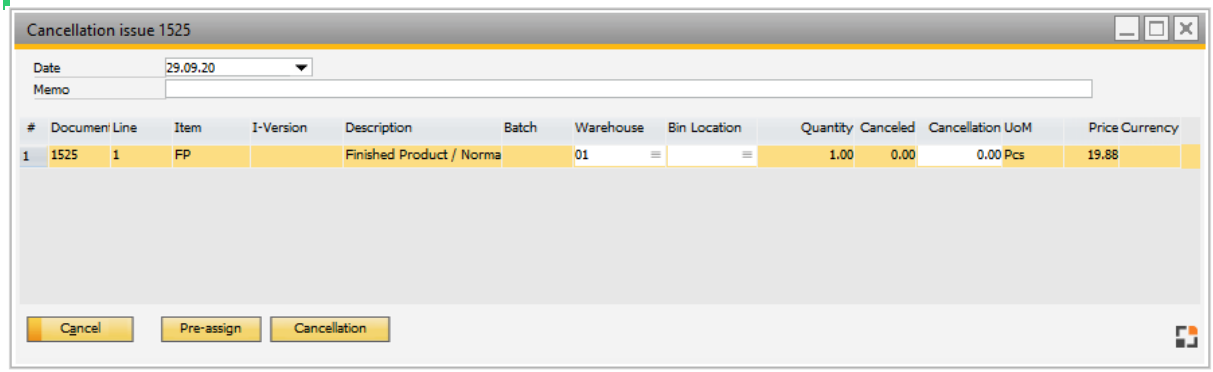
Serial number reservation.

Configuration wizard – Material – Backflushing – Serial numbers,

Serial number tracing

8.2.1.7.3 WO cancellation screen

PATH: Work order structure > raw material issue / right-click > **Cancellation** / .



Window mw_storno_browse.psr

Here the entire WO issue document can be canceled at once. The document is presented in its entirety – per batch, per serial number and per bin location on separate lines. The amounts can be pre-allocated or entered manually. Double cancellation is not possible.

Approach: The program performs a posting for the same price as the issue to the same account. A normal receipt document is generated.

Note: When using average price or FIFO valuation deviations can occur. With FIFO, no cancellation with the correct prices is impossible in general.

© 2026 Boyum IT Solutions A/S

Note: This window is also opened when scrap is posted back for reuse after an issue. Therefore, setup in **Configuration wizard** under **Production > FDC > View time receipts**: Post back scrap material.

With serial numbers, the posting is done to the same internal number. There is no new serial creation. Prerequisite: The serial number was not manually posted.

Field	Meaning
Date	Cancellation date. Default: today; it is changeable.
Memo	Additional information, transferred to SAP Business One - document.

Column	Meaning
Document	Document number.
Line	Row number.
Item	Item.
Description	Description from Item
Batch	Batch ID. or Serial number from Issue document. It's not possible to change this
Warehouse	The system inserts the warehouse from which the issue document was created. It is possible to change this to every warehouse with the following rule: - The warehouse is available for the item - The warehouse is not locked - The warehouse is free for production receipt (***see*** warehouse setting) - Not an external warehouse The System supports WMS, SAP and Beas Bin Managed warehouses *beas 9.3 PL 2 HF 2*
Bin location	If this is a WMS-, SAP- or Beas bin managed warehouse, you can define the Bin location. This field is only editable if this is a bin/managed warehouse. The system does not insert the bin location from an issue document automatically if it is in an SAP or WMS managed

© 2026 Boyum IT Solutions A/S

warehouse.

Customizing, WMS and SAP Support from beas 9.3 PL 2 HF 2

More about Bin Location field

Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3)

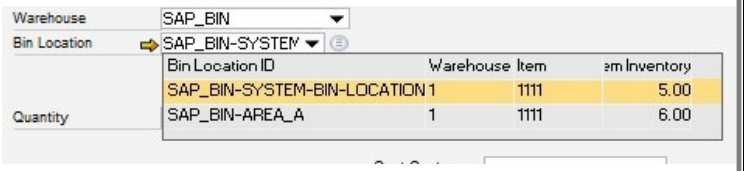
The field has the following components:

Arrow icon /

List of all bins where the item is located.

Selection (Drop-down)

A list opens to select the desired bin location.



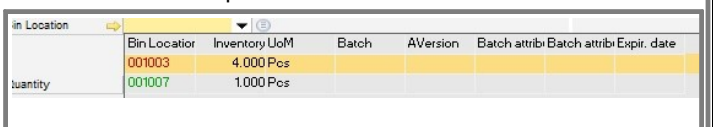
The selected drop-down option displays the following information in receipt documents:

- Bin Location
- Warehouse Area
- First item in this bin location
- Stock of the first item in this bin location

The list can be modified in the Configuration wizard.

The selected drop-down option displays the following information in issue documents:

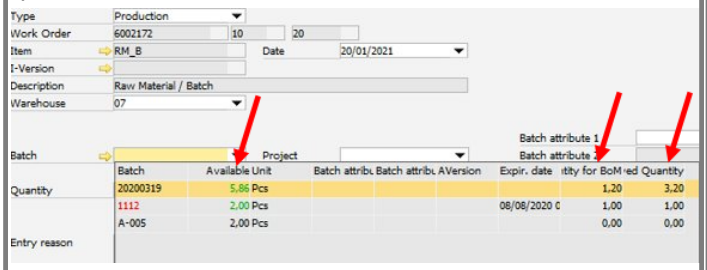
- All stock information of all bin locations with batch- and serial number information.
- Reserved Batch quantities information



The drop-down contains information on reserved

© 2026 Boyum IT Solutions A/S

quantities in 3 columns:



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

- Notes: Beas Bin Warehouse

© 2026 Boyum IT Solutions A/S

The Definition of the bin location is mandatory.

Notes: SBO Bin Warehouse

If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
This is entirely managed by SAP Business One.

Drop-down for volume or weight is not supported.
Columns are always 0.
beas 9.3 PL 2

Notes: WMS Bin Warehouse

Bin location is mandatory.
Drop-down for volume and weight not supported.

Customizing of the drop-down list in Beas 9.3 PL 2 or newer release

This list can be modified in the Configuration Wizard.
General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent setbindropown`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

In the `e_bindropdownbsl` variable, the ODATA command can be defined.
It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
```

© 2026 Boyum IT Solutions A/S

```
setvar=e_bindropdownbsl=BinLocation(<e_binwhsco
de,bsl>)?$mask=1
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwh
scode,bsl>)?$select=BinLocation/BinCode,BinLoca
tion/BinColor,OnHand,UoMCode,Batch,IVersionId,B
atchAttribute1,BatchAttribute2,ExpirationDate&$
filter=ItemCode eq <e_itemcode,bsl> and OnHand
gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered
by OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhsco
de,bsl>)?$select=BinLocation/BinCode,BinLocatio
n/BinColor,OnHand&$orderby=OnHand
desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where
OnHand > 0 of the selected ItemCode, ordered by
OnHand descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwh
scode,bsl>)?$select=BinLocation/BinCode,BinLoca
tion/BinColor,OnHand,UoMCode,Batch&$filter=Item
Code eq <e_itemcode,bsl> and OnHand gt
0&$orderby=OnHand desc, BinLocation/BinCode asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes

© 2026 Boyum IT Solutions A/S

	using Windowevent `setbindropdown`.
	
	The following priorities are considered:
	1. Window-related customization (`windowevent`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:
	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE"`
	`from "BEAS_WHSBIN" where`
	`"WhsCode"=<e_binwhscode,dbstring> order by`
	`"STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE"`
	`from "BEAS_WHSBIN" where`
	`"WhsCode"=<e_binwhscode,dbstring> order by`
	`"STORAGESORT"`
	`end function`

Quantity	Quantity from issue document.
Canceled	Previously canceled quantity.
Cancellation	How much to be canceled now.
UoM	Unit of measurement.
Price	Price from issue document.

© 2026 Boyum IT Solutions A/S

Currency	Currency.

Function

Pre-assign: Pre-assign the same values as present in the issue document: quantity, batch, warehouse and bin information.

back to Work order structure
back to WO Structure material postings

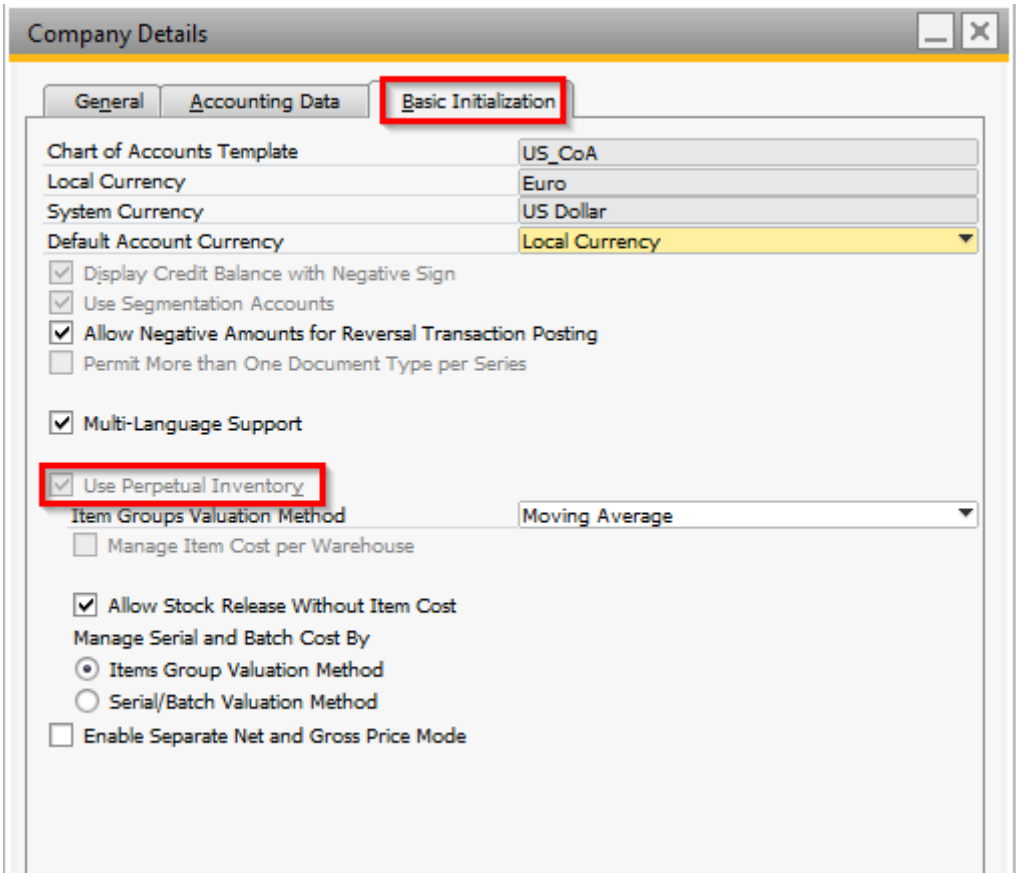
8.2.1.7.4 Journal

For each booking created by SAP Business One for posting documents or for each Beas journal entry, another journal information header is created (table beas_journal). This superordinate document is normally linked firmly to a SAP Business One journal document.

In this document the origin is described. For assembly postings the price calculation is documented and the results are presented in post-calculation for this posting.

Only visible if "Use Perpetual Inventory" is activated:

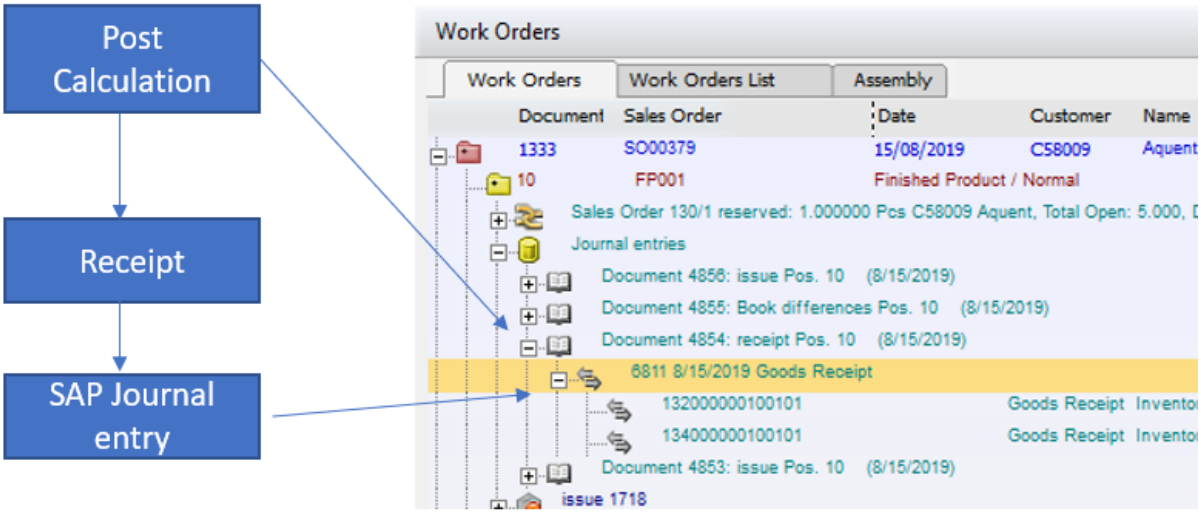
© 2026 Boyum IT Solutions A/S



Window beasgui_sbo.psr

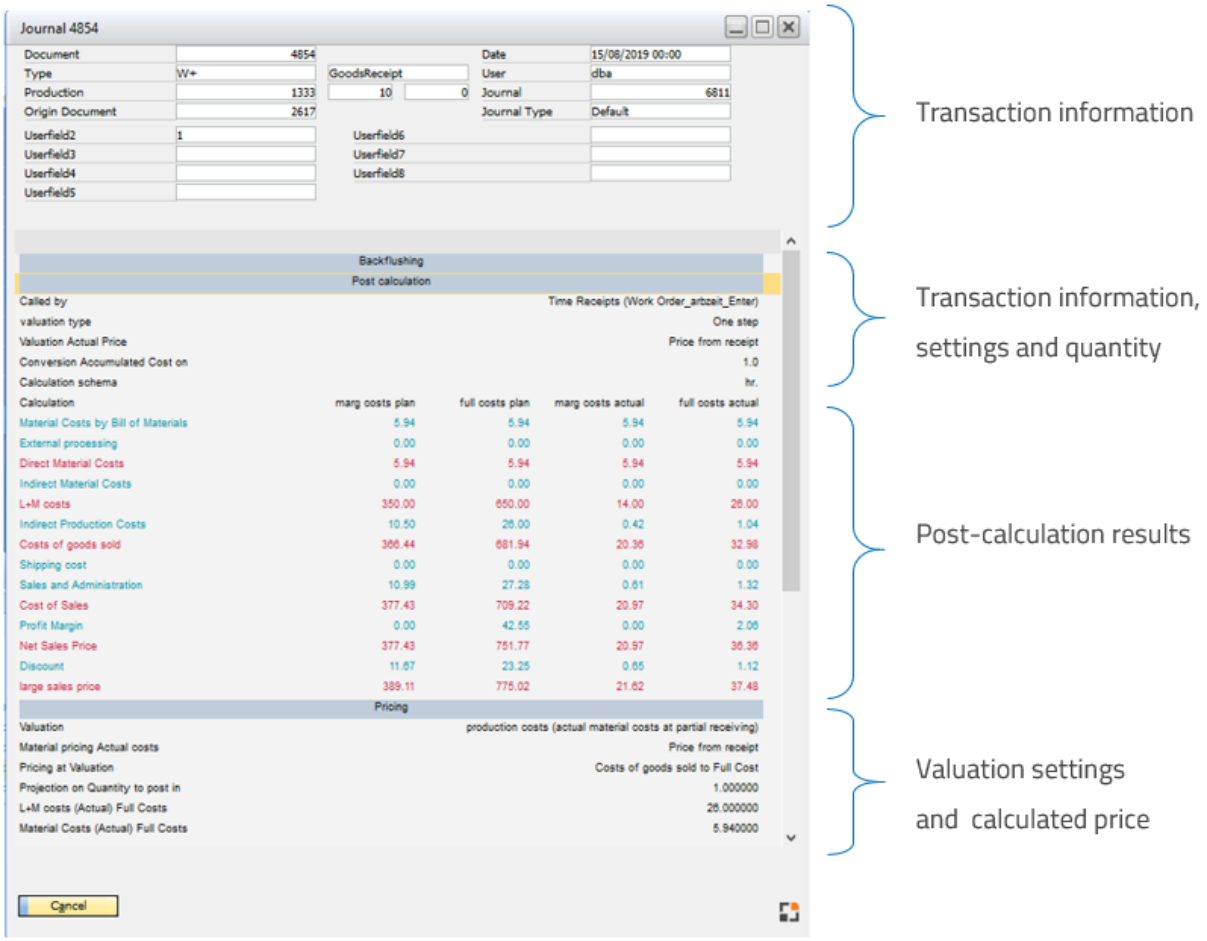
In the Journal line you can see more details of the transaction.

In the receipt documents the complete price valuation is described with the result of post calculation.



© 2026 Boyum IT Solutions A/S

By double-clicking a Journal line, the program displays the details:



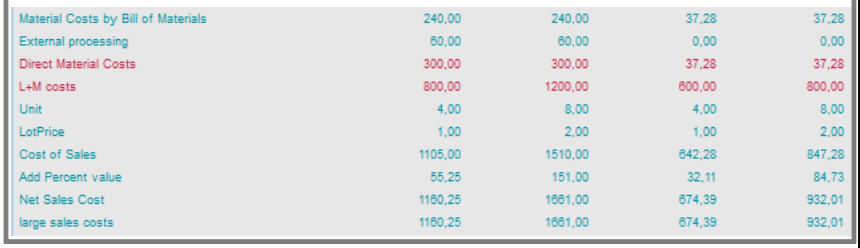
Window fert_journal_edit

Area pricing

Overview of all displayed information. The visibility of the rows depends on the selected valuation.

Title	Description
Valuation	The valuation in use. Independent from valuation settings, regardless of partial posting or final posting.
Valuation Actual Price	The valuation used for actual material costs. Default setting is posting price, but it may also be a Precalculation price or a price from price list. ***See*** Configuration wizard – Post-calculation .
Conversion Accumulated Cost on	Visible only if "Conversion to posting quantity" was stored in the Configuration wizard . From the already posted quantity the quantity still to be posted is projected.
Calculation Area	⊟ Result of Calculation:

© 2026 Boyum IT Solutions A/S

	Only the calculation schema is displayed without details. Valuation to Plan Cost: Only the plan area (first 2 columns) is displayed. Valuation to Real Cost: All 4 columns (Plan/Actual to Full/Marginal cost) are displayed.  Material Costs by Bill of Materials 240,00 240,00 37,28 37,28 External processing 60,00 60,00 0,00 0,00 Direct Material Costs 300,00 300,00 37,28 37,28 L+M costs 800,00 1200,00 600,00 800,00 Unit 4,00 8,00 4,00 8,00 LotPrice 1,00 2,00 1,00 2,00 Cost of Sales 1105,00 1510,00 642,28 847,28 Add Percent value 55,25 151,00 32,11 84,73 Net Sales Cost 1160,25 1661,00 674,39 932,01 large sales costs 1160,25 1661,00 674,39 932,01
Valuation	The setting defined in the Configuration wizard, for example: Production planned cost, Actual material costs
Pricing at valuation	Determines from which area of the calculation schema the valuation price shall be used, and whether to value at marginal or at full costs, or whether to take prices from the price list. ***See*** Valuation of assembly.
Precalculation Material pricing	Only active if valued at planned costs. There you can decide how the material is valued at planned quantities. Set up in Configuration wizard – Precalculation – Material pricing.
Value planned costs at	Only active if valuing at planned costs or if the option Configuration wizard – Post-calculation – Material costs always at planned costs was activated. This setting overrides the pricing "Precalculation Material pricing" if not "Precalculation" was stored. There, you can store the planned pricing for post-calculation, which can affect valuation. ***See*** Configuration wizard – Post-calculation.
Material (calculation type)	Display used Material result from the calculation schema. Related to the valuation of planned/real cost to full/marginal cost. This calculation object considers direct costs + material surcharges.
L+M costs (calculation type)	Display used L+M (Production) result from the calculation schema. Related of valuation the plan/real cost to full/marginal cost
Surcharge Cost of (defined area) to (calculation type)	Display used Surcharge result from the calculation schema related of valuation the plan/real cost to full/marginal. ⊟ Calculation of surcharge cost:

© 2026 Boyum IT Solutions A/S

	The system uses 1 defined column of the calculation schema, for example real cost to Marginal cost Result is the entry of "Cost of Sales" or "Net Sales Cost" - L+M-Cost from same column - Direct Material Cost from same column = Surcharge price
as yet booked	Count of currently booked assemblies (without current booking) Only visible if entry > 0
- Material already booked	Sum of booked Material
- Production already booked	Sum of booked L+M (Production)
- surcharge booked	Sum of booked Surcharge
calculated Material Costs	Result Material costs (Material pricing - Material already booked)
calculated L+M costs	Result L&M Costs - already booked
calculated surcharge	Result Surcharge costs - already booked
Total price	calculated total price
Price	Price per warehouse unit

8.2.1.8 WO structure time receipts

Below the operation the respective time receipts are displayed.

Time receipts

Icon	Boyum Style	Description
		Work Order time receipt has been created.
		Someone is currently working on this work order.
		Main time receipt.
		Setup time reported.
		Time receipt currently being registered.

© 2026 Boyum IT Solutions A/S

If material was backflushed after the order time receipt, the link to the created document is displayed below the time receipt message.

Right-click on time receipts

Function	Meaning
Edit time receipt	Opens the Time receipts editing window.
Delete time receipt	Deletes the time receipt.
Time receipt cut	Time receipt is moved to the clipboard and can be pasted somewhere else. It is only cut once it has been pasted at the new location. This function is only available if the order-related time receipt has not caused a journal entry and the deletion option was not deactivated using the Configuration wizard.
Insert <document> <date>	Only visible if a time report was cut previously. The cut time report is moved to this place. This function is only available if the order-related time receipt has not caused a journal entry and the deletion option was not deactivated using the Configuration wizard.

Time receipts are administrated under administrate work order times.

Also ***see*** Registration window for time receipts.

Upon creating a time receipt, the material is posted. ***See*** time receipt – material posting.

Note: The designations: main, setup and secondary time can be set up in **Configuration wizard >** time types.
You can report to these time types only if the cost type was deposited in the respective resource under "costs“ "extend to cost types“.

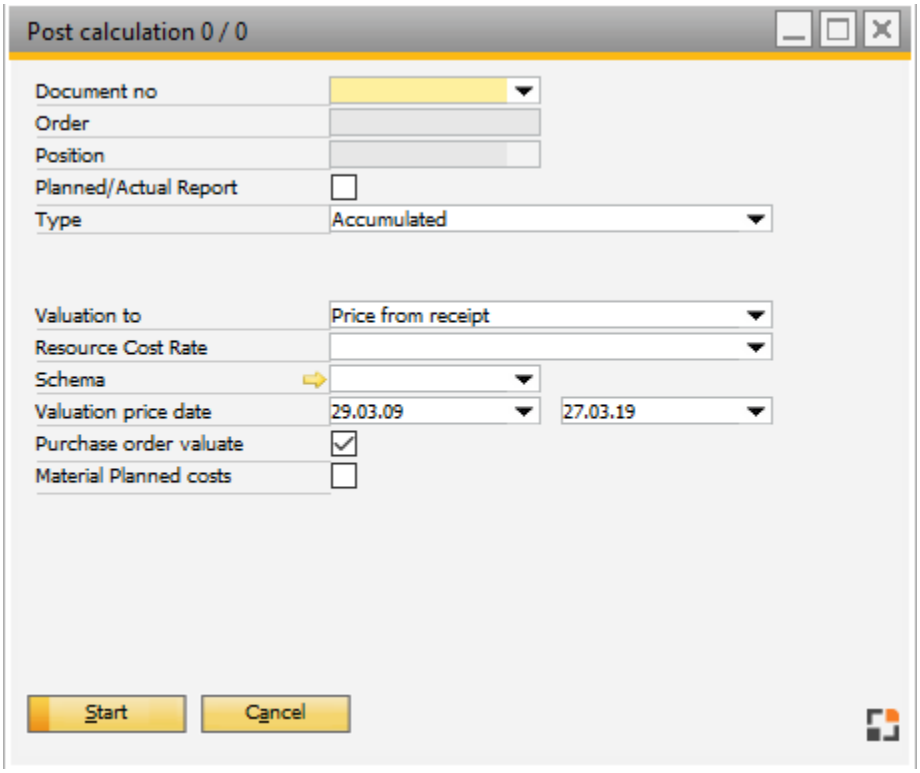
8.2.1.9 WO post-calculation

In this window you can set up parameters for a single post-calculation.

PATH: Production > Work Orders > Work orders list tab > right-click menu > Button **post calculation**.

© 2026 Boyum IT Solutions A/S

See WO structure.



Window fert_naka_auswahl.psr

Field	Meaning
Document number	Document number of the selected work order.
Work order	Work order number.
Position	Position number.
Actual / Plan	Check mark: activates Actual/Plan – comparison.
Type	Type of calculation. **Accumulated**: All incurred costs are valued. Assembly posting is only valued if it was enabled in the settings. By default, assembly postings do not affect the price. Special case: warehouse withdrawal. (***see*** Valuation of assemblies) ***Example:*** Order-related assembly structure (10) Assembly A |_ (20) Assembly B

© 2026 Boyum IT Solutions A/S

	|_ (20)/(10) Material C In WO post-calculation costs are passed on from lower level to top levels. Assembly "A" thus contains the costs of Assembly "B" and Material "C" and of the calculation schema. In Batch-Post-calculation only one result row is displayed (***see*** option "accumulated, all assemblies separately calculated)
Default	The actual post-calculation value of an assembly is valued. The additional postings of the sub-assemblies are considered. ***Example:*** If costs arose for sub-assembly B , but assembly B was not yet reported as completed, these costs are not passed on to the superordinate assembly A.
One step	Only the current level is valued. Sub-assemblies are valued as material (default) or according to the setting "value assembly". Projection function is available. This is the default valuation method which is used to value assemblies for postings.
Accumulated, all assemblies separately calculated	Each position is calculated in several steps separately. The results of the sub-assemblies are not saved. This option is available only in the batch-post-calculation ***Example*** order related assembly structure (10) Assembly A |_ (20) Assembly B |_ (20)/(10)Material C Calculation:

© 2026 Boyum IT Solutions A/S

	- "accumulated" for Assembly "A", which contains all costs of Assembly "B" with Material "C" and all surcharges of the calculation schema - separately "accumulated" for Assembly "B", contains the costs of Material "C") and all surcharges of the calculation schema Result: two rows Result of total structure Assembly "A" Result total structure Assembly "B" Note: The option is available only on Batch-Post-calculation. ***See*** Valuation
Valuation to	Selection from valuation methods (according to configuration wizard).
Resource cost rate	Determines which cost rate to use to value resources. Default: no entry=planned and actual values are used. If a cost rate is selected, planned and actual values valued at the selected cost rate. ***See*** Cost rates *beas9.0-000-003-000*
Schema	Used calculation schema. When this window is opened from a WO, Beas loads the schema defined in the Work order.
Valuation price date (period)	Only costs from the selected valuation dates (period) are calculated.
Purchase order valuate	If this switch is enabled, purchase orders are considered as actual costs. (No need to wait for Purchase invoice).
Material Planned costs	Activate radio box consider material as planned costs.

Functions

Button / Menu	Meaning

© 2026 Boyum IT Solutions A/S

Start	By clicking start, the work order is re-calculated and displayed. ***See***: WO post-calculation – Results.
Save settings	The current settings are saved for the current user and can be re-used. Function is only accessible via right-click.
Window settings	Access on relevant settings of the configuration wizard (except from post- calculation area). There are settings that cannot be set up per calculation. These settings apply for all users and can be accessed also via **Configuration wizard > calculation > post calculation**.

Click on Start to perform a final costing for the work order. The result can be viewed.

Note: Tool costs are not taken into account in post-calculation.

see

Post-calculation Concepts

WO post calculation – result

Post-calculation

Configuration wizard – Calculation – Post-calculation

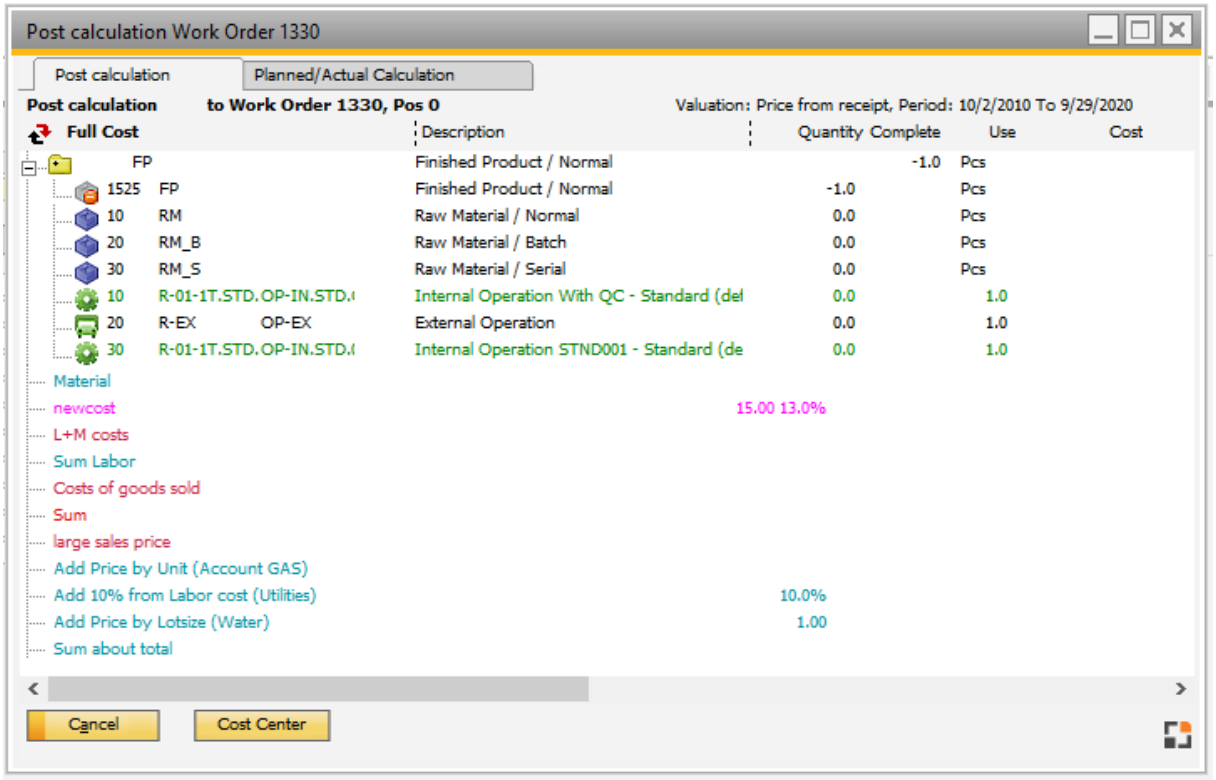
back to work order structure

8.2.1.9.1 WO post-calculation results

In this window the result of the temporary post-calculation is displayed.

PATH: Production > Work Orders > Work orders list tab > right-click menu > Button **post calculation** > Post calculation Work Order XXX.

© 2026 Boyum IT Solutions A/S



Window fert_naka_soll_ist_struktur.psr

Tabs

Tab	Meaning
Post-calculation	Calculation document number of the selected work order.
Planned / Actual calculation	Comparison of planned and actual values.

In the upper area, the work order structure is displayed. Below you can find the costing objects.

The view (decimals, times etc.) can be set up in **Configuration wizard > Calculation > Post-calculation >View.** ***see*** View

The result is always displayed in Inventory Unit.

Right-click menu

Menu item	Meaning
Filter	Select to hide time receipts, operations or materials. Clicking on "complete view" deactivates all filters.
Form printing	Opens printing menu.
Inventory history	Opens inventory history.

© 2026 Boyum IT Solutions A/S

Cost centers	Displays costs per cost centers.
Support	Opens list of last error messages.

see

WO post-calculation

Post-calculation

Projection of actual costs

WO-post-calculation

8.2.1.9.2 Export to Crystal

No Crystal report is supplied as standard for the structure view of the product costing analysis, as Beas offers the standard export functions using Excel.

Note: "Treeview" export to Excel is not supported.

The structure view of the product costing analysis is not saved, so direct output via Crystal is not possible. However, it is possible to cache the contents of a table and print them with Crystal.

With the command
`object=ue_fert_naka=export_naka_soll_ist`
you can export the current structure view. This is then available in the table `beas_reportauswertung` . As a parameter, the following variable can used :"`id`". The export function can also be abused in order to use the result in other ways.

Important: The table `beas_reportauswertung` is only temporary. The entries are promptly removed automatically. Only a limited selection of fields are exported.

Available columns:

Column	Description
`id`	ID
`No.`	Serial number, sort order
`Item`	type of entry 2 = Overhead (lower total) 50 = Item line 52 = Routing position, parallel routing position 100 = Time report 101 = Material posting
`Doc. no. id`	Document No

© 2026 Boyum IT Solutions A/S

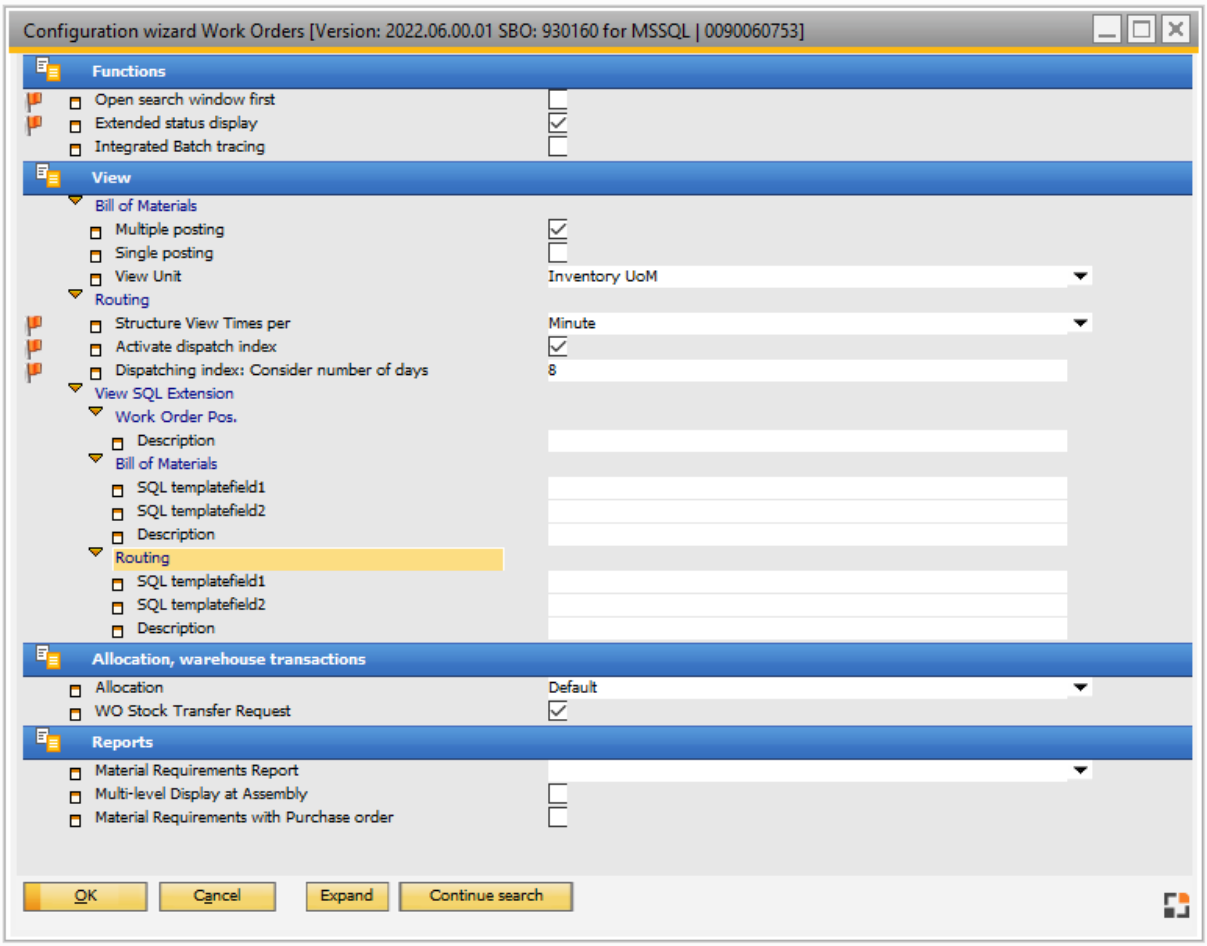
Doc pos	Assembly position
pos_id	Bill of materials / routing position
itemcode	Item
itemname	Item Description
Drw.No.	Drawing Number
quantity_consumption_is	Reported quantity
quantity_consumption_planned	planned quantity
costs_actual_oh	Individual costs at marginal costs
costs_actual_sp	Individual costs at full costs
costs_planned_oh	Planned individual costs at marginal costs
costs_planned_sp	Planned individual costs at full costs
materialcosts_actual_oh	Material costs at marginal costs
materialcosts_actual_fc	Material costs at full costs
materialcost_planned_oh	Planned material costs at marginal costs
materialcosts_planned_fc	Planned material costs at full costs
productioncosts_actual_mc	Production costs at marginal costs
productioncosts_actual_fc	Production at full costs
productioncosts_planned_mc	Planned production costs at marginal costs
productioncosts_planned_fc	Planned production at full costs
productioncosts_actual_mc	Production costs at marginal costs
productioncosts_actual_fc	Production costs at full costs
productionscosts_planned_tc	Planned production costs at marginal costs
productioncosts_planned_fc	Planned production costs at full costs
op_id	Operation ID
aplatz_id	Resource ID
Description	Description of routing position
Number	Work steps
Use	Utility factor
time_actual	Previously required time in minutes
time planned	planned time

© 2026 Boyum IT Solutions A/S

Empl ID	Personnel number for reported time
pers_name	Name of personnel
overheadtext	Text for overhead
overheadinfo_tc	Overhead - surcharge information at marginal costs
overheadinfor_fc	Overhead - surcharge information at full costs

8.2.1.10 WO General Parameters

Can only be accessed via right-click menu in Work order structure view – 4th tab



Window system_option_struktur.psr

Right-click functions

The "**History**" and "**History Current Entry**" functions open the Change log all settings, or the selected one.

Functions

© 2026 Boyum IT Solutions A/S

Field	Meaning
Open search window first	Query before opening the list. If this option is enabled, a selection window opens first. Then, the work order can be selected. Advantage: faster selection with many work orders in the database. *Variable auftr_str_suchmaske, Standard N*
Extended status display	Visibility of icons indicating work order status. In the work order structure icons are displayed right to the work order, indicating whether postings or time receipts have been created. For large databases this can lead to low performance. Use this switch to disable the display. Note: If this switch is disabled, the system does not display these icons in the structure view. *Variable fertstructur_estatus, Standard J*
Integrated batch tracing	Activate integrated batch tracing. If this option is enabled, click on a batch in the work order structure to view all related transaction documents displayed right below the batch (posting in the batch or from which other batch this batch derived) Note: Max. 50 transactions are displayed per batch. If a single batch is moved very often, the overview can be lost. For this reason, this option should not be activated in such cases. The function "batch tracing" can be used instead.

© 2026 Boyum IT Solutions A/S

	Serial number related items are also affected. *beas9.0-000-003-051, Variable ftstr_tracer Standard: N*

View

Bill of Materials

Field	Description
BoM multiple postings	After clicking on a BoM item, generally the function "material issue" instead of "Item x issue" is displayed. For collective posting action (e.g. click on assembly, work order or at multiple selection) „material issue" is displayed, by which several BoM items can be charged off at once.
BoM single posting	After clicking on a BoM item, the feature "issue item x" is displayed (downward compatibility).
View Unit	Select from unit of measures to view BoM: - Inventory UoM - Production UoM

Routing

Field	Description
Routing structure view times per	Enables dispatch display in work order structure view.
Activate dispatch index	Activates the utilization display of resources in the structure view.
Dispatching index: Quantity days consider	Defines the number of calendar days, that is used when displaying resource utilization. If you change it, you must reopen the window.

SQL-extensions for the structure view - BoM / Routing

In structure view only a few customizations are possible. With these settings the designation for Work order position, BoM and routing can be changed. ***see*** customization of WO structure view.

Field	Description
SQL templatefield1	SQL-fragment to fill templatefield1
SQL templatefield2	SQL-fragment to fill templatefield2

© 2026 Boyum IT Solutions A/S

Description	Data window command line to display the "description" field of a work order position, routing or BoM item.

Allocation

Field	Description
Allocation	Defines which allocation function will be made available. **Standard**: Allocation function introduced in Beas8.8. Only available with activated reservation system. **beas2009**: This parameter is not closeable any more. If it must be set, use the following script: `setsetup=ftstr_matlisttyp=2` **no**: No allocation.
WO Stock transfer request	Check box option to activate WO Stock transfer request for work orders.

Reports

Field	Description
Reservation	Enable reservation function?
Material Requirements Report	Defines which material requirement list is available **Standard**: Material requirement list introduced in Beas 8.8 **beas2009**: "old" material requirement list **no**: No reservation
Multi level display for assemblies	Allows a multi level display for material requirement lists Affects Reservation function, the default Material requirement list, Material issue and Allocation. If this option is enabled, and you right-click on a BoM item, selecting one of the above mentioned features, not only the material requirement of the current BoM item is considered, but also the material requirement of its sub-structure.
Material Requirements with Purchase order	Available only for compatibility reasons. Material requirement list from which a purchase order can be created. The created purchase order is not work order-related. If activated, the Material Requirements for Assembly option is available in the WO structure contextual menu.

© 2026 Boyum IT Solutions A/S

back to work order structure

8.2.1.11 WO Print

A standard document is stored for the WO document.
If necessary, this can be copied into the project directory and edited there.

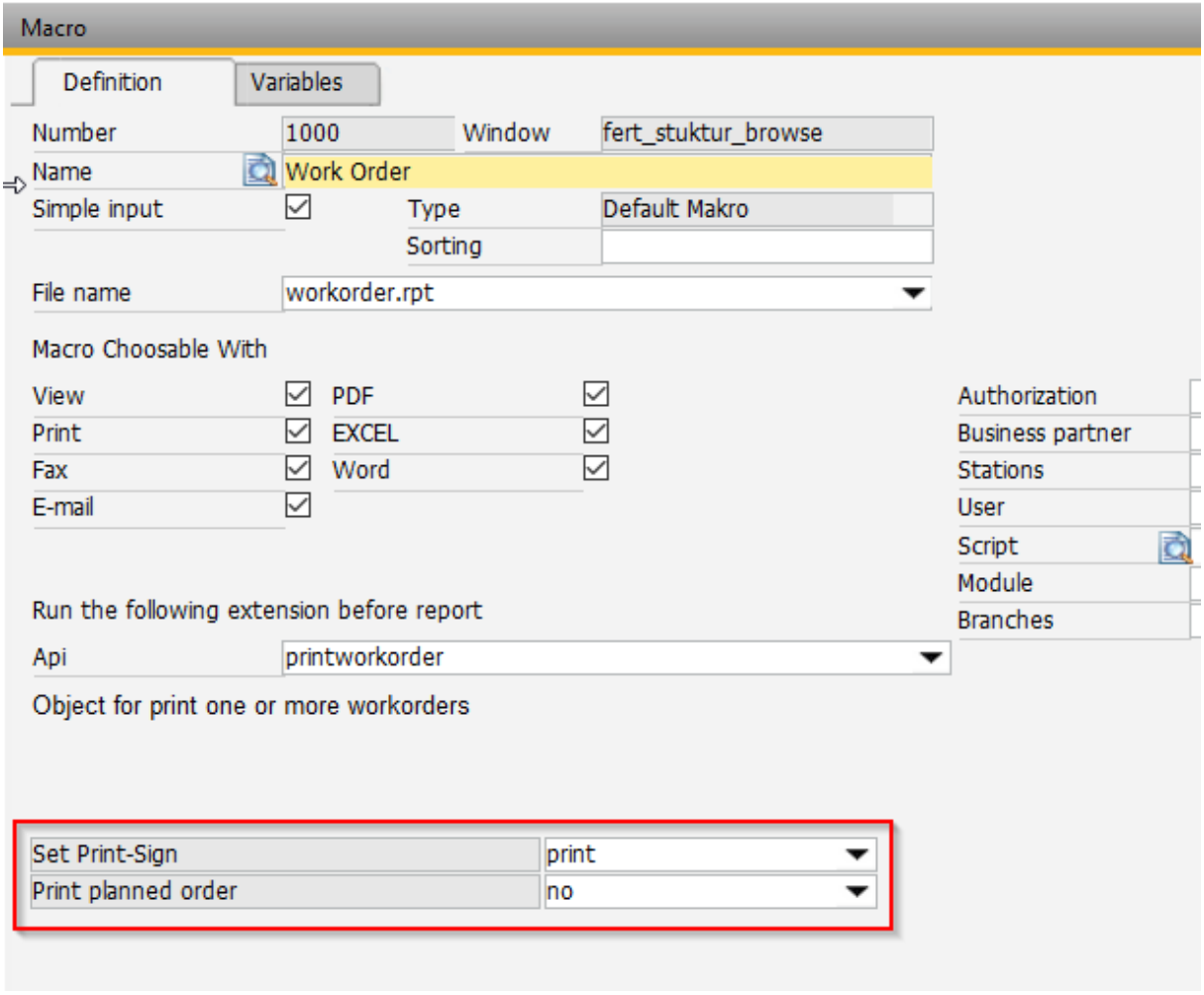
The WO document is printed in WO Structure View. The currently selected WO is printed. Individual WO position can also be printed. To do this, the WO is expanded and the required WO positions are selected. In this case, the WO itself should not be selected.

Limitation on printing Work Order Report:
Work order structure view reports are designed to display 6 sub levels, therefore the system does not print information over 6 sub levels.

There are two settings in the macro definition

Setting	Meaning
Set printing ID	Defines whether the print ID is to be set in the WO document or WO position. Settings: Always or at print.
Print planned WO	Determines whether planned WO can be printed. Settings: Yes/No. Default: No. ***See*** Production types.

© 2026 Boyum IT Solutions A/S



Window program\report_makro_edit_page1.psr

Note: If the WO is a planned order (Production Types – Planned Order), it is not printed. However, it is possible to print the individual positions.

8.2.1.11.1 Customization WO structure view

The work order structure view cannot be changed with the normal settings and customizations which Beas offers, because different forms are nested.
Each row type (work order, assembly, routing etc.) has its own SQL-statement and output form.

To make possible a limited customization nevertheless, to window settings some options have been added. For BoM and routing additional information can be called from database. The description can be changed for this line type.
see Window settings - WO structure view

Note: Extended knowledge is required for customization.

© 2026 Boyum IT Solutions A/S

SQL-Template fields must be written in valid SQL syntax, for HANA environments we have to apply HANA sql rules.

Example: Display quality control plans in routing. Approach:

Window settings > Routing > SQL-Template field1: `beas_ftapl.qs_id`

Window settings -> Routing -> Description: `bez+ '(' + templatefield1 + ')'`

Result: the activity is displayed in the view. Right of it, in brackets, you can see the quality control plan

Example: display current stock in material. Approach: (Query is HANA compatible)

Window settings -> Bill of materials -> SQL-Template field1: `cast("OITM"."OnHand" as nvarchar(50))`
Window settings -> Bill of materials -> Description: `bez + ' (' + templatefield1 + ')'`

Result: in the view the activity is displayed and next to it in brackets, the stock of current item

SQL-statement

Direct access on the following tables

BoM: `beas_ftstl, beas_ftpos, oitm, beas_me`

Routing: `beas_ftapl, beas_aplatz, beas_ftpos, beas_agtyp, beas_me`

Statement needs to return a value of type "char" or "varchar". Other data types need to be converted using `convert(varchar(50),[fieldname]).`

Sub-Select-statements need to be put n brackets:

```
(select myfield from [@myTable] where "ItemCode"=beas_ftpos."ItemCode")
```

Description

There you can determine, what to display as description. Enter in Datawindow-Syntax.

see DataWindow-Syntax

All fields in the window can be accessed. ***see*** **Debug-Window - "Variable" tab > Button "Local"**

© 2026 Boyum IT Solutions A/S

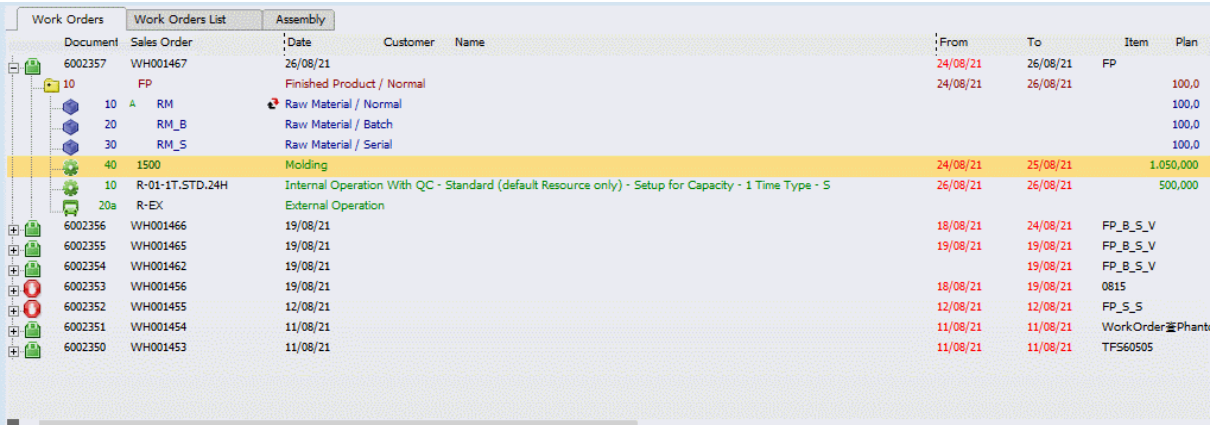
8.2.1.12 Split assembly

WO structure > right mouse click on assembly > second tab > Split

With this function it is possible to split a work order position in two positions.

Examples:

- Due to partial manufacturing scrap, the remaining parts have to be manufactured separately.
- split production order to produce on 2 different machines in parallel
- decide to deliver first part earlier and split 1 lot size in two lot sizes.



A new assembly is created for these.
The quantity of the new assembly is entered into the consumption unit.
The entered quantity remains in the assembly that is to be split.

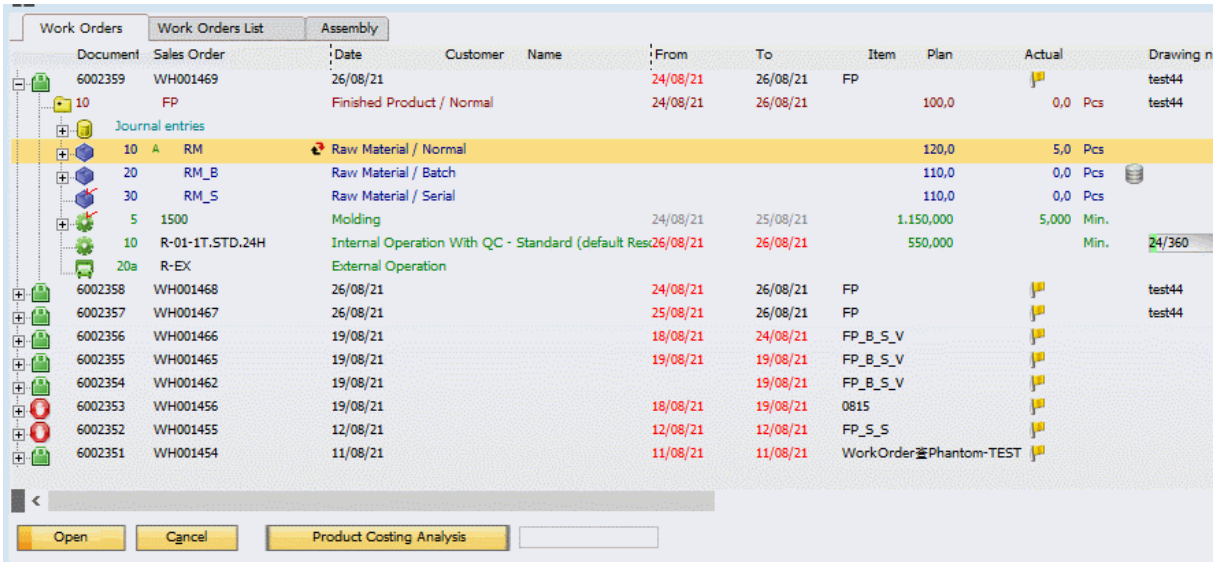
This must be smaller than the quantity of assemblies to be split.
The entered quantity is subtracted from the assembly that is to be split.

The Closed Routing position is closed in the new Position, and the Time receipt mandatory setting is disabled in the Configuration Wizard.

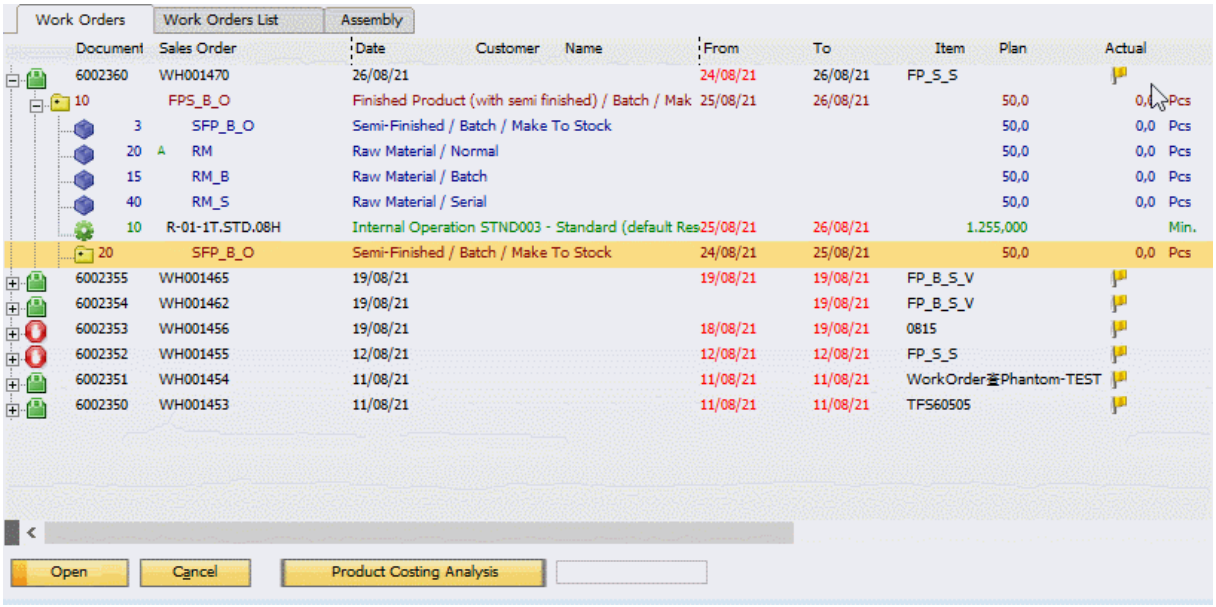
Bill of Materials - scrap quantity is not counted against this.
Work order position - scrap quantity in new assemblies is always set to 0 and remains unchanged in the assembly that is to be split.

Production lots are not observed.
Existing material reservations are deleted.

© 2026 Boyum IT Solutions A/S

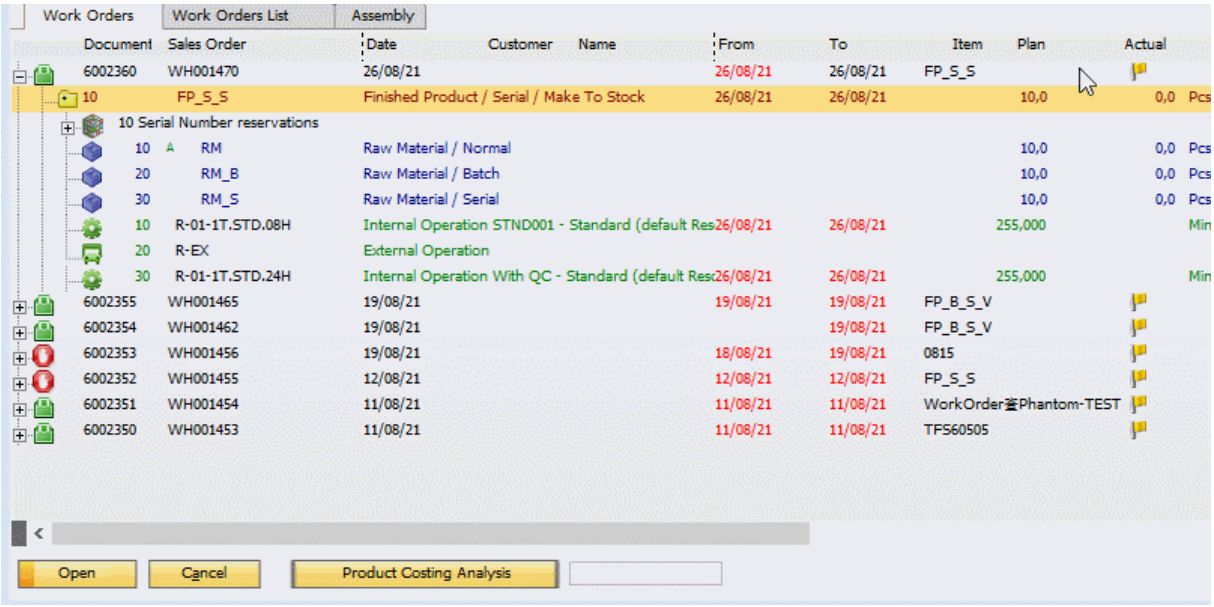


The system splits only current positions, not sub-structures.



Existing **serial number reservations** are split. A selection window opens and the last entries are pre-selected.

© 2026 Boyum IT Solutions A/S



8.2.1.13 Material requirement report

The Material requirement report shows the requirement of selected work orders, BoM items or assemblies.
In this manner, the order-related requirement can be checked, and purchase orders can be created.
For a storage-related view you can use MRP.

The material requirement report is provided in two different versions.

PATH: Production > Work orders > right-click an entry > select "Material Requirements".

Window reservation_set_source.psr

The list offers the following functions:

- Overview on material requirements and current warehouse status

© 2026 Boyum IT Solutions A/S

- Manual issue
- order related purchase orders and purchase requests

The list can be called up from work order structure, work order list, work order, work order item and others.
Additional definitions ***See*** Configuration wizard > Production.

- Columns, Rules

The list is created using the same object as the Material issue window.

Columns and rules ***See*** Reservation window > Requirement list and Configuration wizard > Production > Material requirement

Window settings and Templates are supported.

- Multilevel display

If the list is opened from work order structure and only one assembly was selected, its sub-assemblies are displayed as well.
See
Work orders > Window settings > Lists > Multi-level display for assemblies.

- Notes on templates:

Up to 6 additional fields can be defined for this list. This works only for work orders. Material requirement calculation for sales orders does not consider templates.
Sorting and filtering is not possible on SQL-level.

The content of this window is loaded after opening and using an object. It behaves differently than most other windows and has various limitations: sorting and filtering by these fields on SQL level is not possible.

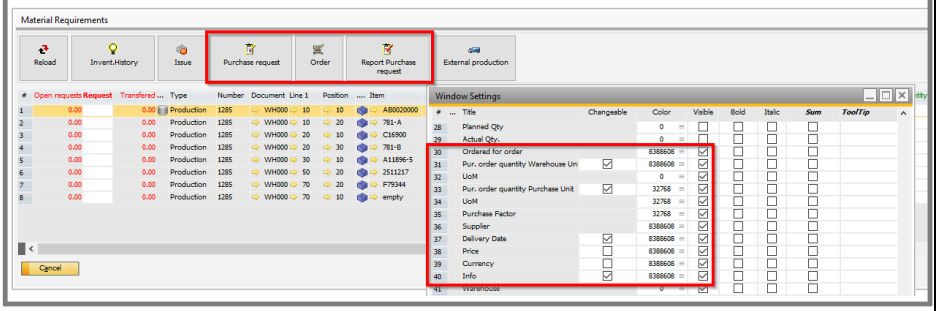
linked tables:
BEAS_FTHAUPT, BEAS_FTPOS, BEAS_FTSTL, OITM (Assembly), OITM2 (Material), OITW (Warehouse Material)

- Notes on window settings:

Functions of this list depend on the activated fields.
Pricing is executed only if the price is not hidden.

© 2026 Boyum IT Solutions A/S

Functions

Function	Description
Reload	Build up the list new (for example after goods have been issues).
Invent.History	Open Inventory history.
Issue	Open manual issue window. Fields are pre-allocated for the selected item.
Purchase request	Create a purchase request. A Purchase request is created for all rows for which a quantity and a supplier were stored. After this, quantity fields are cleared and the value in "purchases" rises. It is only visible if you activate this functionality. ***See*** function Order. Note: SAP Purchase request is not supported.
Order	Create a purchase order. Create a purchase order It is possible to create an order only for the selected line after you have inserted an order quantity. After this, the quantity field is cleared and the value in "purchases" rises. The function is available only if the field "purchase quantity", "delivery date", "Supplier" and "Price" is displayed. Activation steps: 1. Open Window settings 2. Activate the fields 3. Close Window settings and material requirements 4. Reopen this window. The functionality is now available. 

© 2026 Boyum IT Solutions A/S

List Purchase requests	List of purchase requests is opened. Only available if you activate this function. ***See*** function Order. ***See*** Purchase request
External operation	Call up External operation – collective purchase This switch is visible only if, at least, one external operation was stored in the selected work order or WO position. The window External operation – collective purchase is opened. This provided central access on material and services.
Filter: Requirement	Display only lines with requirement Requirement for Filter means: `Planned Quantity - Booked Quantiity > 0` For negative BoM Positions: `(-1) * Planned Quantity - Receipt Quantity > 0` If Required Quantity 0 displayed is activated in **Configuration wizard > Production > Material Posting > Backflushing**, the formula is the following: Requirement for Filter: `Planned Quantity - Booked Quantiity >= 0` For negative BoM Positions: `(-1) * Planned Quantity - Receipt Quantity >= 0` Note: This Requirement is not the Quantity which you see in column "Requirement", because in the column "Requirement" the system is checking the reserved Quantity (`Planned Quantity - Booked Quantity - Reserved Quantity`)

See

Video: how to open the material requirement lists

Video: Activate purchase function

See Material requirements in the Beas Production Cockpit (2025.06)

© 2026 Boyum IT Solutions A/S

8.2.1.14 Link serial numbers / batches

This window displays which parts (serial numbers, batches) have been used for in the manufacturing process to construct a manufactured item.
The function allows to link serial number or batch related material positions which are issued to serial number or batch related assemblies. Accessible: **Work order view > Right-click > Link serial numbers / batches.**

The window appears only if
a) a posting exists
b) the assembly is batch or serial number related
c) you click on the assembly

The window consists of three parts:

Above: Displays all serial numbers or batches of manufactured items (assemblies) which have been posted in
Bottom left: Displays all BoM items which include a batch or serial number related material
Bottom right: Displays all the serial numbers and lot numbers which have been issued for the selected BoM item.

Upper window section

Column	Meaning
Item	Manufactured item (assembly) .
Description	Description.
Batch	Batch or Serial number of the manufactured item, created or assigned by Beas. ***see*** batch generation .
Warehouse	Current warehouse of the manufactured item.
Quantity	Work order quantity.
Unit	Unit of measurement.
Document	Document number.
Date	Date of work order creation.

Left below

© 2026 Boyum IT Solutions A/S

Column	Meaning
Pos.	BoM item number from work order.
Item	Material (BoM item).
Description	Description.
Quantity	BoM quantity.
Linked	Quantity already assigned to each BoM.
Unit	Unit of measurement.

Right below

Column	Meaning
Selected	Check the box to reserve this material for the BoM and to create link.
Description	Material description.
Batch	Manufacturer batch number (external) .
Warehouse	Current warehouse of the material.
Quantity reserved	Quantity reserved for the BoM on the left.
Quantity	Quantity to be assigned.
Unit	Unit of measurement.

Click the boxes in the "Selection" column to reserve material from the right screen for the BoM on the left and to create link.

Later, this link is entered and saved with all information by the user, and can be viewed in the batch number tracing window.

Create Shortcut

If a serial number or a batch is selected in the bottom right window, it is immediately connected to the serial number or batch number which is currently selected in the list above.

see

Batch tracing

Serial number tracing

© 2026 Boyum IT Solutions A/S

back to work order (general)

8.2.1.15 Cross Reference

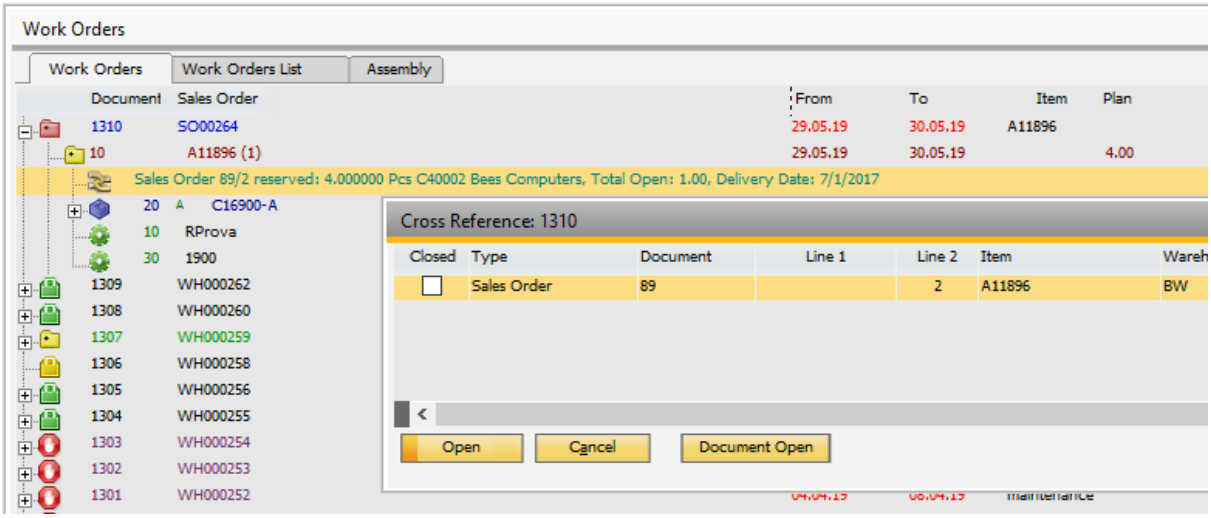
Links between a work order item and an origin document (sales order, advance invoice, production BoM item) can be established and edited here.

Note: The function is only available if the Beas Reservation system is activate.

A receipt reservation is created. The receipt for a work order is firmly linked to the origin document. If, then, the assembly is posted in, goods are reserved automatically for the linked document (the reservation is turned into a warehouse reservation.
Several origin documents can be stored. The delivery date of the linked document is decisive for priority.

Limitation: The MRP calculation system only applies coverage for the first line in the Cross reference list. ***See*** MRP Coverage Calculation
Attention: This list only displays information for "stock related" items because the information displayed in this screen is related to reservations. In case of non-stock items, no cross-reference is displayed in the WO structure.

PATH: Production > Work orders structure > right-click a link / .



Window reservation_link_browse.psr

Field	Description

© 2026 Boyum IT Solutions A/S

Closed	Reservation completed (fully delivered) A receipt reservation will not be deleted, but archived when closed. It can be reviewed at any time.
Type	Origin document (Sales order, work order BoM item or advance invoice).
Line 1	If linked to a work order document: document position, for other documents always 0.
Line 2	If linked to a work order document: BoM position, for other documents the document line.
Warehouse	Warehouse, to which the receipt is planned.
Balance	How much is actually still reserved ? If for ***example***, 10 pieces were reserved and 6 have been posted in already, a warehouse reservation for 6 pieces is created, the receipt reservation (column "remain" is reduced to "4".
Reserved	Total quantity of receipt reservation. Only the remain is taken into account. Total quantity is only displayed for information.
Document open	Open quantity in origin document, not yet delivered. Note: This is not related to the current work order position.
Warehouse reserved	Reserved quantity in warehouse for the origin document. As soon as the work order item is posted in, the value from "remain" is reduced and the warehouse reservation is increased. Note: This is not related to the current work order position. It is the sum of stock reservation from the Origin document (example: sales order)
Customer	Customer number from origin document.
Name	Customer name from origin document.

Note:
All quantities are given in warehouse units.

Button

Open document: the origin document is opened.

Open: The Cross Reference - Edit window opens.

see

Reservation system

Configuration wizard – Production – Reservation

© 2026 Boyum IT Solutions A/S

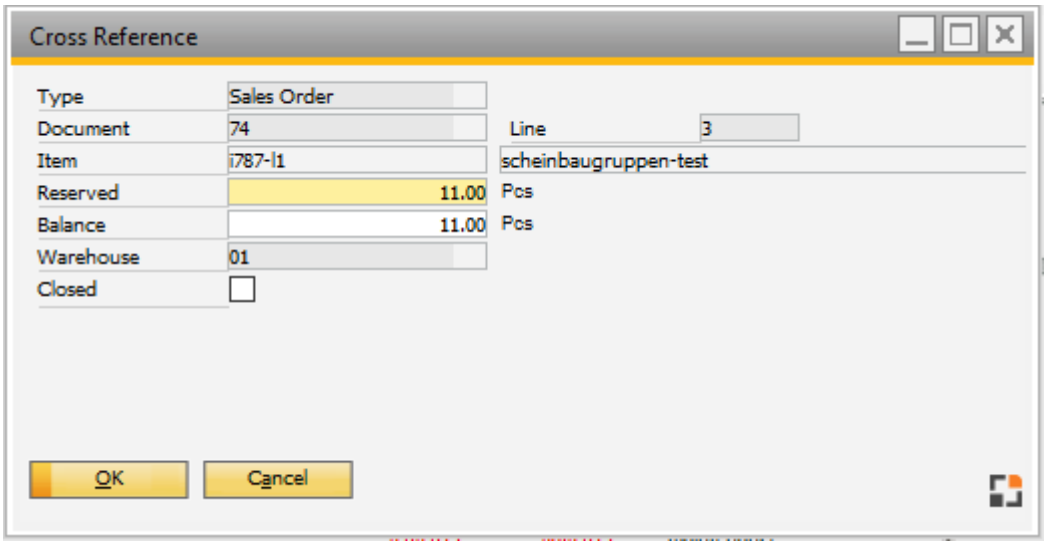
Reservation list

8.2.1.15.1 Cross Reference Edit

In this window you can Edit the link between a work order position and its origin document.
See Cross Reference.

PATH: Production > Work orders

1. Select a work order with a position that has cross reference to a document.
2. Right-click (or double-click) **Cross reference** /
3. Click **Open**



Window reservation_link_edit_psr

See Field descriptions.

8.2.1.16 Issue / Reservations screen

Standard-Selection window with context-sensitive buttons in the upper ribbon. For process description ***see***: Reservation system.

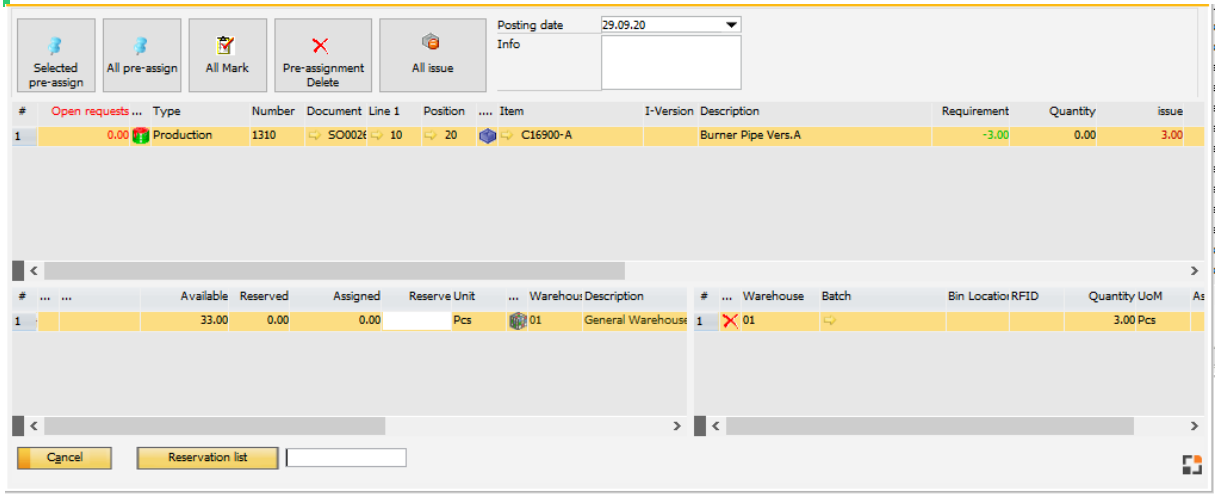
Window structure

Header
Functions in header
Requirement list

© 2026 Boyum IT Solutions A/S

Inventory list	selected material

PATH: Production > Work orders structure > right-click an entry > "Reservation" / "material issue".



Window: reservation_set_master

Functions:

Reservation

Material issue

Allocation

External operation – provision

External operation – issue

WO Stock transfer request

WMS Picklist for Production

- Performance

  This window is designed for optimal usability.
  If you are working with mass data, it is important to disable the extended view.
  See
  Configuration wizard > Production > Material posting > Backflush > Reservation, material issue: extended Display

- Keyboard functionality

  The window includes sections with lists to navigate in with cursor movement controlled by arrow keys.

© 2026 Boyum IT Solutions A/S

UP/DOWN: Moving the cursor with the up/down arrow keys always operates in the list which currently has the focus.

If the focus is on the search field, the cursor is placed on the top (Requirements) list.
If scanner optimization is disabled, the system does not set the focus automatically to the input field.

SHIFT + UP/DOWN: Set the focus to the top (Requirements) list.
CTRL + UP/DOWN: Sets the focus on the bottom list.

See: Configuration wizard – Reservation settings
Charge off reserved material

8.2.1.16.1 Reservation screen

Standard-selection window for reservations. For process description ***see***: Reservation system

Upper area: Requirement list. Only items with current requirement (not yet posted) are displayed. Which items are included, is also depending on extended warehouse settings

Left: stock down to batch, serial number and bin level. This list is sorted by priority:

- 1. Reserved goods for this order line
- 2. Supply warehouse
- 3. Standard warehouse
- 4. Other warehouses. Within this, batches are sorted by withdrawal rule according to configuration wizard.

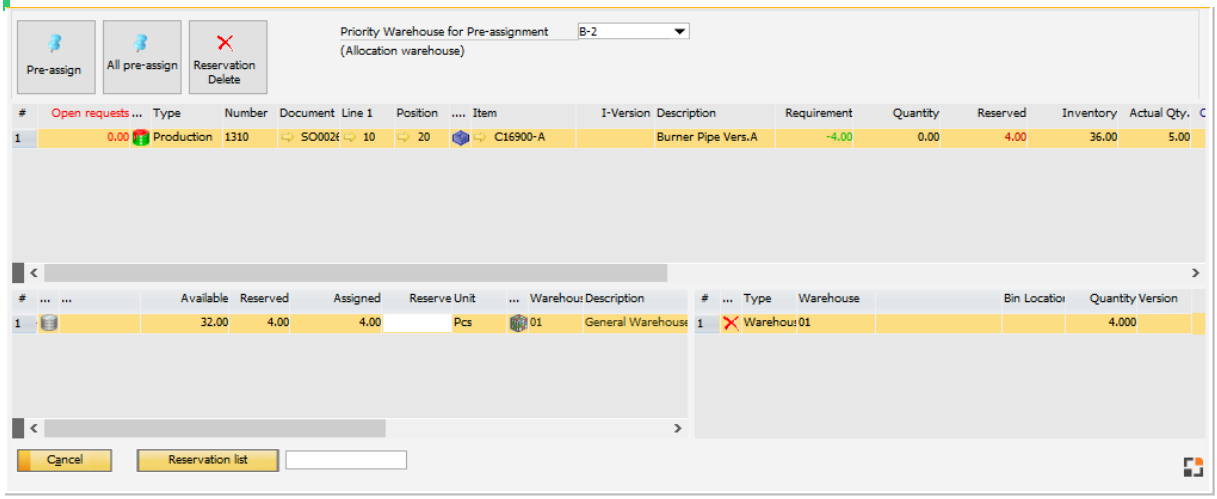
Right: Selected inventory for reservation.

Window structure

Header Functions in header	
Requirement list	
Inventory list	selected material

© 2026 Boyum IT Solutions A/S

PATH: Production > Work orders structure > right-click an entry > "Reservation".



Window: reservation_set_master

Scanner support

The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:

Production > Material posting > Backflushing > Material posting with scanner.

Active:

A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.

If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued.

Inactive:

Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.

Serial number: quantity is accepted immediately.

Item: entry selected, cursor is set to quantity field.

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.

Error messages are issued in no case.

See

Configuration wizard – Material posting with scanner

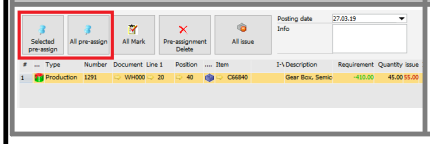
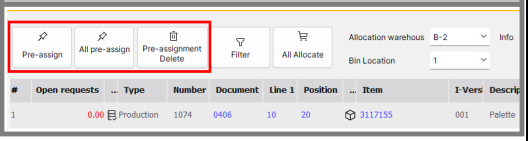
© 2026 Boyum IT Solutions A/S

Reservation
Material issue
Allocation
External operation Allocation
External operation issue

fert_scanbatchqty (J)

Functions in the upper ribbon:

Button	Meaning
Pre-assign	With the pre-assign buttons you can assign inventory automatically.

Traditional style	Boyum Style
	

Pre-assign: Action is performed for all marked entries.
All pre-assign: Action is performed for all entries.

The warehouse inventory is pre-assigned to the requirement automatically with the following sorting rules and filter rules:

- Sorting

1. Reserved goods (not in reservation process)
2. Allocation warehouse (***see*** Allocation window)
3. Warehouse and Bin location defined in BoM position
4. Standard warehouse of the item

Within this,
a) batches and serial numbers are sorted by the withdrawal rule according to the Configuration wizard. ***See***: Configuration wizard
b) if Bin managed: Issue Sorting defined in Bin definition

Normal items (not batch- or serial number related) will be pre-allocated only if the issue method was set to "automatic" in the Item master. ***See***

© 2026 Boyum IT Solutions A/S

Item master – Issue method

Note: Allocation warehouse is set up per work station. ***See*** Allocation window.

Allocation rules

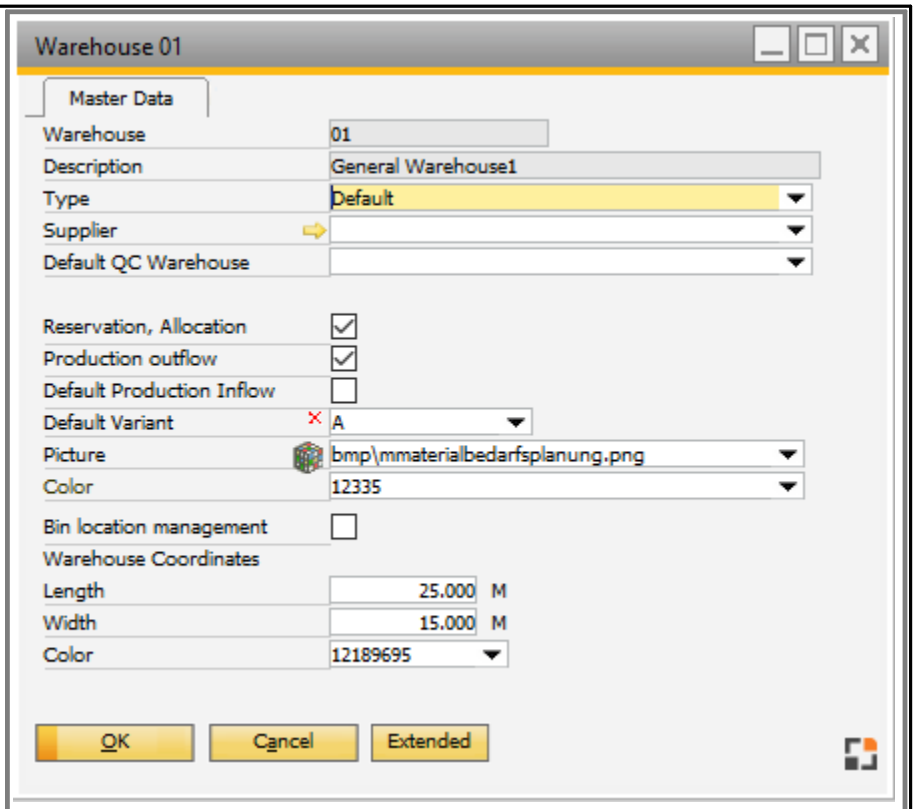
Batch and serial numbers

Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard.
See Configuration wizard – Backflushing

Warehouse

Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.)
See extended warehouse settings
Available at **General settings > Warehouse > Warehouse master data > Extended**

© 2026 Boyum IT Solutions A/S



Window bin_whs_edit.psr

Attention

SAP Bin Management not supported.

Rounding / Multiple of

In this column you can see the requirement.

For Planned Quantity the system calculates with the Rounding system.

Requirement = the calculated Quantity - Booked Quantity

The Requirement is not rounded again.

But if you **Pre-assign** the quantities, the system rounds the result again.

Example:

Plan Quantity = 4.5, Round = multiple of 2. Requirement = 6

Issue document for 5 Pcs, Requirement is 1

Click on **Pre-assign**: The system defines 2 Pcs, because it works with rounding "multiply of".

Why:

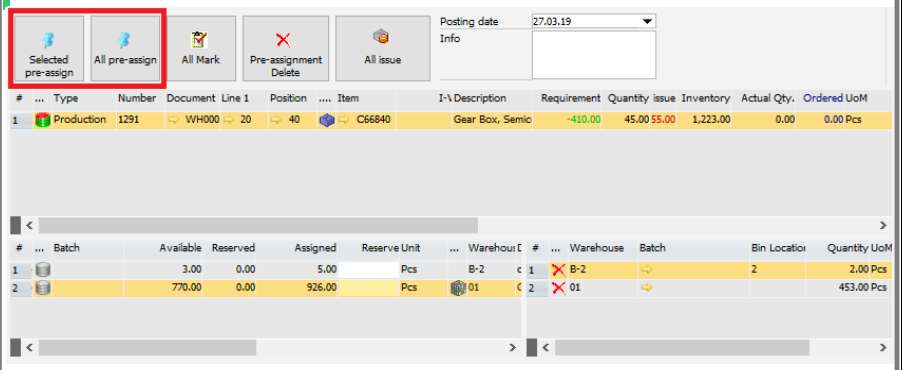
© 2026 Boyum IT Solutions A/S

Example: You are working with pallets. Multiple is 1
You need 0.2 Pallets per Pcs.
But for every receipt + backflushing process you need a pallet and not part of a pallet.
This is the reason that the system MUST use the rounding concept for every partial receipt and related issue document.

Extended rules / Customization / Script

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.
See Material booking > Automatic pre-assignment setting.

PATH: Production > Work orders structure > right-click an entry > "Reservation".



Window resevation_set_master.psr

Boyum Style button design:

These extended rules can be stored in the function "`workordermanagement.src`". (In project folder)
Depending on the window a specific function is called, for example for reservations `setres_reservation()`

See Pre-Assign buttons description
For more information ***see***

© 2026 Boyum IT Solutions A/S

	UserEvents UserEvents for PreAssign
Delete reservations	All reservations are deleted.

Fields right of the buttons on the top

Only some fields explained in the table below are displayed depending on the workflow.

Field	Meaning
Priority Warehouse for Pre-assignment	Priority Warehouse for Pre-assignment Only visible if there is at least one warehouse with type "allocation warehouse". This can be defined as "Priority Warehouse for Pre-assignment" – ***see*** "Pre-Assign". Setting is saved per work station. Note: function has no effect on the reservation and issue window. ***see*** Reservation window, Material posting.

Right-click menu

Item	Meaning
Reservation list	Opens the reservation list.
Reservation delete	Deletes existing reservations.
Filter: All	Lines having been posted are also displayed.
Filter: Requirement	Standard view. Only lines having not been posted are displayed.
Window settings	Opens the window settings for this window.
Invent.History	Opens inventory history for the selected item.
New purchase request	A purchase can be created for the current line. ***See*** Purchase request
Purchase request	Opens the purchase request window. ***See*** Purchase request

Buttons below

© 2026 Boyum IT Solutions A/S

Button	Meaning
Reservation list	Opens the reservation list.
New Serial	Button is only visible for serial items. Create new serial reservation.

back to work order general

© 2026 Boyum IT Solutions A/S

8.2.1.16.1.1 Res. screen requirement list

Reservation window requirement list

© 2026 Boyum IT Solutions A/S

Standard fields in reservation window, allocation window, provision window, material issue window and WO Stock transfer request window.

The following entries are displayed

- Entries with requirement or all entries if this was set up in the Configuration wizard – "Display requirement quantity 0" (Reservations are not considered at requirement calculation).
- Entries for issue: negative positions.
- Entries depending on extended warehouse settings.

Via right-click - Filter all/filter requirement you can set up whether or not to display entries without requirement.

Use Window settings to define which fields are to display. Note: Diverse fields are hidden depending on settings in configuration wizard. ***See*** "Following fields only visible"

Templates

Reservation for Sales Order: Templates are not supported.

Reservation for Work order: Templates are supported.

The window is built up by the program and not by SQL-statement. That why no SQL-statements are shown.

But the following tables are available to define own fields:
BEAS_FTPOS,BEAS_FTSTL,BEAS_FTHAUPT and OITM

<table>
<tr><th>Column</th><th>Description</th></tr>
<tr><td>...</td><td>Status of the row displayed with an icon.
Icons
The meaning of the icons in reservation window, allocation window, provision window and material issue window:
<table><tr><th>Icons</th><th>Boyum Style</th><th>Description</th></tr><tr><td>
 </td><td>
 </td><td>Reservation:<table><tr><th>Traditional style</th><th>Boyum Style</th></tr><tr><td>Gray: goods reserved, but planned quantity not reached.</td><td>Empty barrel: goods reserved, but planned quantity not reached.</td></tr></table></td></tr></table></td></tr>
</table>

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td>
<table>
<tr><td> </td><td> </td><td>
<table>
<tr><th>Traditional style</th><th>Boyum Style</th></tr>
<tr><td>Green: required planned quantity reserved.</td><td>Barrel with a check mark on the bottom right: required planned quantity reserved.</td></tr>
<tr><td>Red overflown: too much reserved.</td><td>Barrel with an exclamation mark on the bottom right: too much reserved.</td></tr>
</table>
</td></tr>
<tr><td> </td><td> </td><td>Selected quantity is moved back to the left window. The pre-allocation is deleted. The barrel icons disappear.</td></tr>
<tr><td> </td><td> </td><td>This is Receipt reservation, which cannot be deleted here. By clicking the icon, the screen customer order to work order opens.</td></tr>
</table>
</td></tr>
<tr><td>Type</td><td>Order type</td></tr>
<tr><td>Number</td><td>Order number</td></tr>
<tr><td>Document</td><td>Document number</td></tr>
<tr><td>Line</td><td>Row in document</td></tr>
<tr><td>Item</td><td>Item number</td></tr>
<tr><td>I-Version</td><td>Item version</td></tr>
<tr><td>Description</td><td>Item description (from BoM or Sales order)</td></tr>
<tr><td>Drawing number</td><td>Drawing number from BoM.
Drawing number is transferred to purchase order, it can be changed here. If changed, it is not written back to origin document.</td></tr>
<tr><td>Allocation Warehouse</td><td>Stock on allocation warehouse</td></tr>
<tr><td>Requirement</td><td>Planned requirement
Reservation, Allocation, Material issue:
The requirement is for the complete planned quantity, which is the total requirement - booked quantity.
Planned assembly quantity * BoM requirement
- already posted material
+ canceled material</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

- currently reserved goods (at reservation) or selected material (at allocation or transfer)

Backflushing for example via time receipt

The requirement is for the quantity that is defined. In this case the already issued quantity is ignored.

(reported yield quantity + reported scrap) * BoM requirement

- already allocated quantity (pre-allocation) or manually selected quantity

A 0 is displayed if enough goods have been selected.

Colors:

Column is displayed with colors

red: not enough goods available

blue: enough available

green: no requirement or enough goods selected (value = 0)

negative BoM quantity

Negative requirement (planned inflow) is displayed here as positive. The allocated receipt quantity is subtracted. In this case, not the requirement, but the planned quantity – received quantity is displayed. Such a position is marked with the icon / .

Rounding rule

The rounding rule according to BoM position is applied to the current remaining requirement. The rounded remaining requirement minus the reserved quantity will be displayed.

Number of digits as per UoM is not considered. It is rounded according to **General settings > Display > Decimals > Quantity**.

Note: If scrap quantity is used, planned scrap and off-cut may not be considered. ***See*** Configuration wizard – backflushing.

© 2026 Boyum IT Solutions A/S

Quantity	Required total quantity without consideration of the reserved quantity.
Reserved	Reserved, issued or selected quantity Displays the currently reserved or selected quantity. Depending on the window, the column has different designation and meaning. Reservation list: "Reserved": the total reserved quantity **WMS Integration:** From Beas Manufacturing 2024.04 on, this field considers WMS Batch/LUID and Detail level locks. Issue material: "Issue": the quantity to be issued Allocation "Reserved" - the allocation quantity Color: gray: nothing selected blue: not enough selected green: correct quantity selected red: too much selected **Note**: After changing columns in Window settings the column is displayed as "reserved". Only after reopening the title is changed window specifically.
Order related purchased	Purchased quantity for the current row Total quantity of open purchase orders and purchase requests for this row, quantity in Inventory UoM.
Allocation warehouse	Stock on allocation warehouse
External warehouse	Stock on external warehouse
Planned quantity	Total requirement without consideration of the reserved quantity
Actual quantity	Displays posted material. If the list is called from a from the time receipt window, then 0 value is displayed in this column.

© 2026 Boyum IT Solutions A/S

Open Quantity	- visible in WO Stock Transfer Request window. Displays the quantity of existing requests (not closed or transferred).
Request	- visible in WO Stock Transfer Request window. Editing field to indicate the manually or automatically preassigned Quantity to request for the selected Material. Entering the value is mandatory.
Transferred	- visible in WO Stock Transfer Request window. Displays the number of items transferred from the transfer request.
Stock	⊟ Stock of pre-allocated warehouse In sales order or Production – BOM position a warehouse is stored. The stock of this warehouse is displayed. *(beas9.0-004-048-000)* Current free stock
Total stock	⊟ Available total quantity Display depends on setting Extended display: Option activated The stock of all non-blocked warehouses is displayed. For batch related items only released batches are considered. Option disabled The stock of all non-blocked warehouses is displayed.
Goods receipt from PO	Total quantity of open purchase orders in Inventory UoM.
Release	check mark selected if the check mark "approved" was set in sales order – logistics tab.
Warehouse, primary warehouse	Warehouse which is stored in the pegging Production BoM position: always the warehouse which is entered in the BoM Sales order: The warehouse which is stored in the sales order row
Picklist Release	check mark, if the check mark "print picking sheet" was set in sales order – logistics tab.
Blocked stock	Stock in blocked warehouse
Res. Total	Total reservation (all orders, customer and work orders), meaning all reserved quantities for the selected item

© 2026 Boyum IT Solutions A/S

	WMS integration: This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Delivery date	Delivery date Selection type can be set up in Configuration wizard – Material requirement planning.
Requirement date	Delivery date less lead time
Assembly	Assembly ID
Assembly quantity	Quantity of the assembly to be produced
Purchase inflow	Planned inflow from purchase
Sales order	Requirement of sales orders
Res. sales order	Reserved quantity of all sales orders
Lead time	Item lead time (replenishment time) from item master

NOTE: The following fields are visible only in
- material requirement list
- in other windows if "Reservation, issue: Extended views" was enabled.

Content of these fields is taken from Inventory history

See Configuration wizard – Production – View
Configuration wizard > Material posting > Backflushing – extended display
Inventory history

Field	Description
Balance	From inventory history: total balance for all orders
Production outflow	From inventory history: sum of planned requirement from all work orders
Production inflow	From inventory history: sum of planned receipts from all work orders
Minimum stock	Minimum stock of this item for all warehouses
Maximum stock	Maximum stock of this item for all warehouses
Res.customer order	Reserved quantity for all customer orders
Total available	Total available quantity

© 2026 Boyum IT Solutions A/S

	Total stock - production outflow - sales order quantity + purchased quantity + production inflow

Material requirement – Purchase area

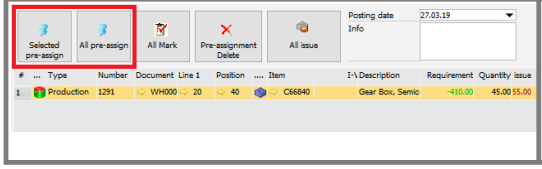
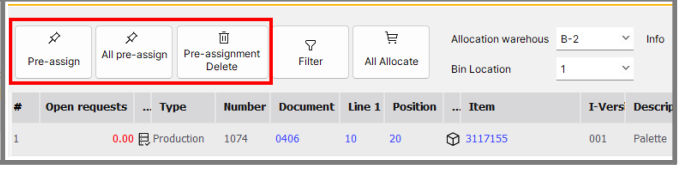
Purchase function is available only in material requirement list and only active if the field **Purchase quantity in warehouse units** or **Purchase units** was set to visible.

Field	Description
Purchase quantity warehouse units	Purchase quantity can be entered in warehouse units (blue)
Purchase quantity purchase units	Purchase quantity can be entered in purchase units (green)
Unit purchase	Purchasing UoM
Purchase factor	Conversion factor between Purchasing and Inventory UoMs
Supplier	Default supplier Can be selected by right-click Selection type can be set up in Configuration wizard – Material requirement planning.
Delivery date	Desired delivery date
Price	Price in Purchasing UoM. All pricing rules are considered. Gross price lists are not considered.
Currency	Currency for the purchase order. Determined automatically with pricing.
Info	Free entry field. Transferred to purchase order.

back to Issue and reservation window.

8.2.1.16.1.2 Pre-Assign buttons

With the pre-assign buttons you can assign inventory automatically.

Traditional style	Boyum Style
	

© 2026 Boyum IT Solutions A/S

Pre-assign: Action is performed for all marked entries.
All pre-assign: Action is performed for all entries.

The warehouse inventory is pre-assigned to the requirement automatically with the following sorting rules and filter rules:

- Sorting

1. Reserved goods (not in reservation process)
2. Allocation warehouse (***see*** Allocation window)
3. Warehouse and Bin location defined in BoM position
4. Standard warehouse of the item

Within this,
a) batches and serial numbers are sorted by the withdrawal rule according to the Configuration wizard. ***See***: Configuration wizard
b) if Bin managed: Issue Sorting defined in Bin definition

Normal items (not batch- or serial number related) will be pre-allocated only if the issue method was set to "automatic" in the Item master. ***See*** Item master – Issue method

Note: Allocation warehouse is set up per work station. ***See*** Allocation window.

- Allocation rules

Batch and serial numbers

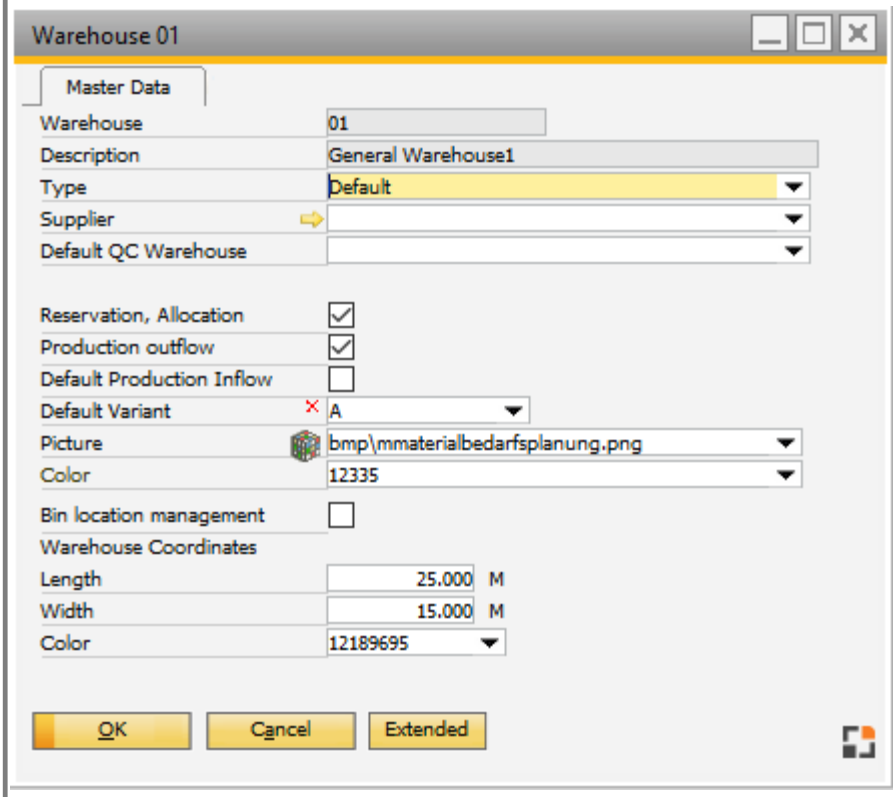
Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard.
See Configuration wizard – Backflushing

Warehouse

Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.)
See extended warehouse settings

© 2026 Boyum IT Solutions A/S

Available at **General settings > Warehouse > Warehouse master data > Extended**



Window bin_whs_edit.psr

Attention

SAP Bin Management not supported.

- Rounding / Multiple of

In this column you can see the requirement.

For Planned Quantity the system calculates with the Rounding system.

Requirement = the calculated Quantity - Booked Quantity

The Requirement is not rounded again.

But if you **Pre-assign** the quantities, the system rounds the result again.

Example:

Plan Quantity = 4.5, Round = multiple of 2. Requirement = 6

Issue document for 5 Pcs, Requirement is 1

Click on **Pre-assign**: The system defines 2 Pcs, because it works with rounding "multiply of".

Why:

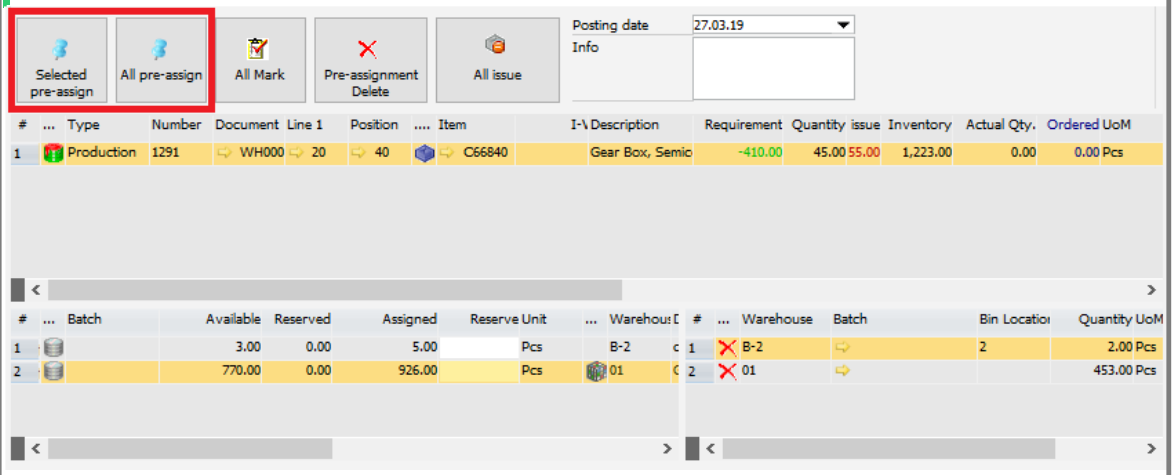
© 2026 Boyum IT Solutions A/S

Example: You are working with pallets. Multiple is 1
You need 0.2 Pallets per Pcs.
But for every receipt + backflushing process you need a pallet and not part of a pallet.
This is the reason that the system MUST use the rounding concept for every partial receipt and related issue document.

Extended rules / Customization / Script

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.
See Material booking > Automatic pre-assignment setting.

PATH: Production > Work orders structure > right-click an entry > "Reservation".



Window resevation_set_master.psr

Boyum Style button design:

These extended rules can be stored in the function "`workordermanagement.src`". (In project folder)
Depending on the window a specific function is called, for example for reservations `setres_reservation()`

See Pre-Assign buttons description
For more information ***see***
UserEvents

© 2026 Boyum IT Solutions A/S

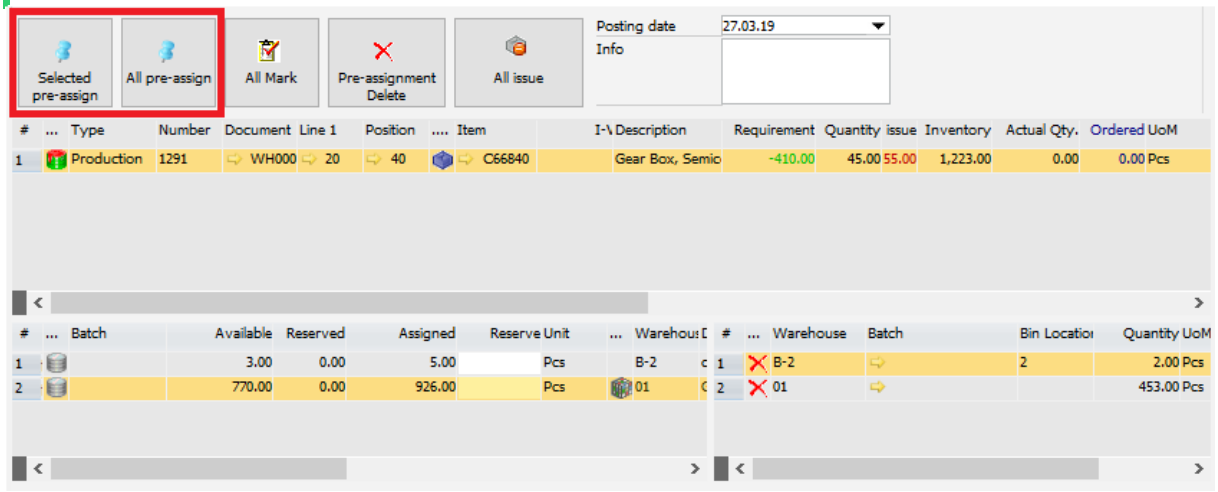
UserEvents for PreAssign

8.2.1.16.1.3 Extended rules

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.

See Material booking > Automatic pre-assignment setting.

PATH: Production > Work orders structure > right-click an entry > "Reservation".



Window resevation_set_master.psr

Boyum Style button design:

These extended rules can be stored in the function "`workordermanagement.src`". (In project folder)

Depending on the window a specific function is called, for example for reservations `setres_reservation()`

See Pre-Assign buttons description

For more information ***see***

UserEvents

UserEvents for PreAssign

© 2026 Boyum IT Solutions A/S

8.2.1.16.1.4 Icons

The meaning of the icons in reservation window, allocation window, provision window and material issue window:

<table>
<tr><th>Icons</th><th>Boyum Style</th><th>Description</th></tr>
<tr><td> </td><td> </td><td>Reservation:<table><tr><th>Traditional style</th><th>Boyum Style</th></tr><tr><td>Gray: goods reserved, but planned quantity not reached.</td><td>Empty barrel: goods reserved, but planned quantity not reached.</td></tr><tr><td>Green: required planned quantity reserved.</td><td>Barrel with a check mark on the bottom right: required planned quantity reserved.</td></tr><tr><td>Red overflown: too much reserved.</td><td>Barrel with an exclamation mark on the bottom right: too much reserved.</td></tr></table></td></tr>
<tr><td> </td><td> </td><td>Selected quantity is moved back to the left window. The pre-allocation is deleted. The barrel icons disappear.</td></tr>
<tr><td> </td><td> </td><td>This is Receipt reservation, which cannot be deleted here. By clicking the icon, the screen customer order to work order opens.</td></tr>
</table>

8.2.1.16.1.5 Inventory list

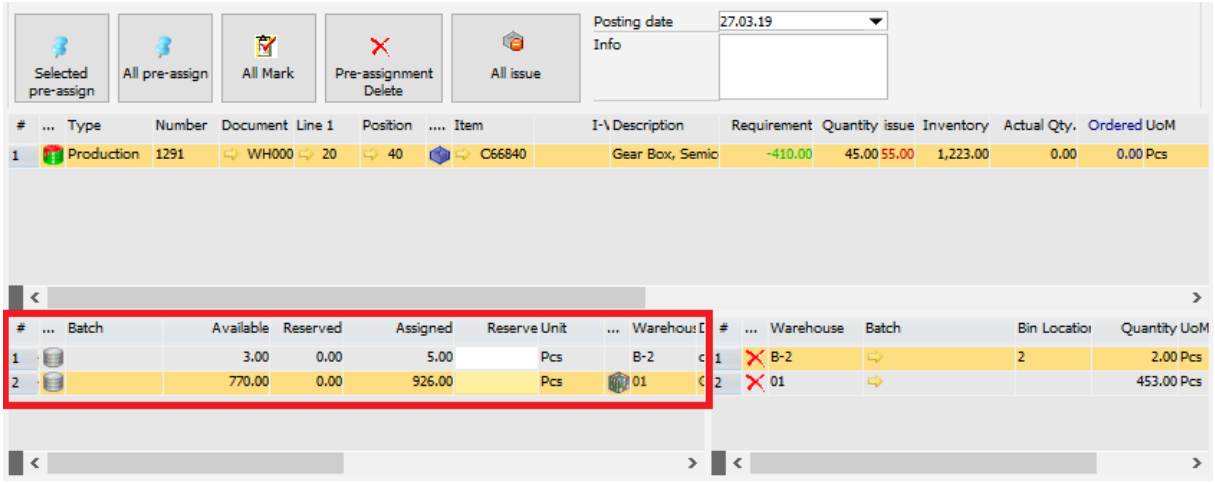
In the Reservation, issue, and WO Stock Transfer Request windows – the warehouse inventory is displayed on the area bottom left.
The display is adjusted automatically for the serial number items, batch items and normal items.

In case of a negative BoM, the relevant receipt form is displayed in the issue window.

A quantity can be selected from a warehouse inventory via double-click or input of the quantity. This will then be displayed as reserved on the right side.

PATH: Production > Work orders structure > right-click an entry > "Reservation".

© 2026 Boyum IT Solutions A/S



Window reservation_set_master.psr

Sorting

Inventory with batch/serial number/bin location, sorted by priority

- 1. Reserved goods for this order line
- 2. Allocation warehouse
- 3. Standard warehouse
- 4. Other warehouses. Within that sorting:

Batches: Withdrawal rule according to Configuration wizard

Serial number: By serial number.

Note: The pre-assign function uses a different sorting and filter than this view.

This list

- ignores the pre-defined bin location

- ignores sort definition in bin location

Filtering

The following information is displayed only:

- Only warehouses relevant to the field are displayed
- Multiple branch solution: Only warehouses of the same branches are displayed
- Only warehouses released for the withdraw or reservation (Reservation, Allocation, Production outflow etc.) are displayed
- If Parameter "Issue only for default warehouse" is active then only warehouse defined in WO BoM is displayed. All other warehouses will be ignored.
- **WMS Integration**: When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality**

© 2026 Boyum IT Solutions A/S

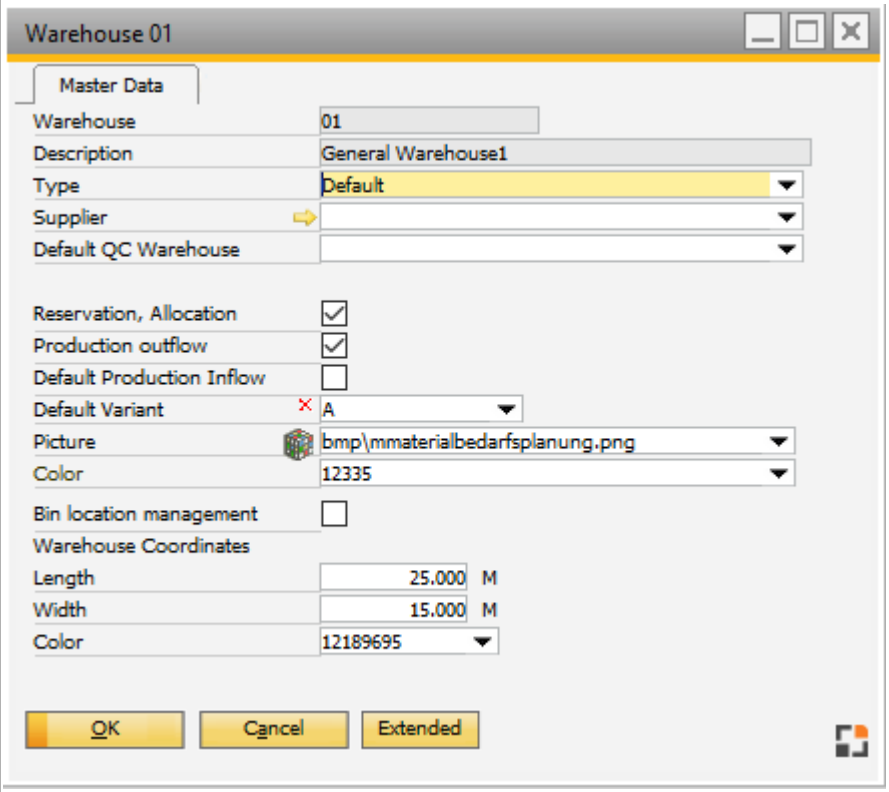
Status >"Can be used for production". If the "Can be used for production" field is active, this BEAS screen section only displays WMS items with this quality status with this flag

•

WMS Integration: In the Configuration Wizard > WMS settings you can configure the system to filter stock according to WMS Zones and Bin locations for the WO Material Issue function.

Inventory > Warehouse management > Master data

See Edit warehouse master data



Window bin_whs_edit.psr

Alternatively, the warehouse filter can be changed by script.

Customized warehouse filter

windowevent loadstock next to UDFs warehouse filter can be defined. Use variable "`e_stock_(area)_where`" or subordinated: `e_stock_where` for definition.

Area: destinguish between normal, batch or serial number items.

Batch: `e_stock_batch_where`

Series: `e_stock_serial_where`

Normal: `e_stock_std_where`

© 2026 Boyum IT Solutions A/S

A general filter in variable "e_stock_where" can be defined or a separate filter for batch or serial number items. The standard behavior can be changed completely.

Priority:

Filter as per area filter `e_stock_(area)_where`

If not set: filter as in variable `e_stock_where`

If not set: standard filter (see Standard behavior)

Enter a SQL-fragment for the WHERE-clause

The following tables are available:

Serial number: `OSRN, OSRQ, OWHS, OITW, BEAS_WHSBINITEM, BEAS_WHS, BEAS_WHSBIN, BEAS_WHSAREA`

Batch: `OBTN, OBTQ, OWHS, OITW, BEAS_WHSBINITEM, BEAS_WHS, BEAS_WHSBIN, BEAS_WHSAREA`

Normal: `OWHS, OITW, BEAS_WHSBINITEM, BEAS_WHS, BEAS_WHSBIN, BEAS_WHSAREA`

For batches you can change the sorting using the variable *(beas 9.1 PL:08)*
`e_stock_batch_order`

Example:

User "harald" may only withdraw from warehouse "02" and "03"

```
windowevent loadstock
if <currentuser> = harald then
  setvar=e_stock_where= and`OWHS`.`WhsCode` in ('01','02')
end if

// Default sort for batchnumber: only by batchnumber
setvar=e_stock_batch_order="OBTN"."DistNumber"
end event
```

This window can be called up as reservation or issue window. If, depending on the area, different filters are needed, use the variable as_menu.

Area	Content Variable as_menu
Reservation	reservation
Allocation	supply
issue provision parts	externalissue
issue	issuewo

© 2026 Boyum IT Solutions A/S

Example: Extended rule only for issue

```
windowevent loadstock
if <as_menu> = issuewo then
  setvar=e_stock_where= and`OWHS`.`WhsCode` in ('01','02')
end if
end event
```

Note:

The rule defined here has no effect on allocation. This is set up separately. ***See*** Extended rules.

See Customization

Field	Meaning
...	Reservation status Show if reservation exists = Reservation exists for the current Bill of material position.
Batch number / Serial number	The Batch / Serial number Serial managed item: Display the serial number Batch managed item: Display the batch number Black: Batch Status is released Red: Batch status is not released
Available	Currently available total quantity. Material for this Batch Number / Serial Number on this Warehouse and on this Bin Warehouse. **WMS integration:** This field also considers all units available for WMS lock types Batch, LUID and Detail. ***See*** "B / L / D Available" field description below.
B Available L Available D Available	Quantity available by PMX WMS lock types: - The three fields are hidden by default - Activate in Window settings.

© 2026 Boyum IT Solutions A/S

	<table><tr><th>Field</th><th>Locking Type (WMS)</th><th>Description</th></tr><tr><td>B Available</td><td>Batch</td><td>Quantity of batches available for reservation without considering any location, palette or other details. To keep the integrity of the system, Beas does not allow to consume more material than the available quantity. ***Example:*** You want to reserve 6 units from two locations that contain 5-5 batches each. Beas will only allow max. 4 batches to reserve from one location, and 2 from the other.</td></tr><tr><td>L Available</td><td>LUID</td><td>Quantity of batches available for the reservation of one specific palette (LUID) that can be moved in the warehouse. ***Example:*** Reserve 2 batch units on a palette, and the system moves the palette to the new location.</td></tr><tr><td>D Available</td><td>Detail</td><td>Quantity of batches available for reservation on a specific palette and location. **IMPORTANT:** Moving is not possible.</td></tr></table> **WMS integration:** The system supports Produmex WMS locking types "Batch, "LUID" and "Detail". ***See*** documentation of the WMS Inventory locking system.
Reserved	⊟ Reserved quantity Display reserved Quantity. Only stock reservations are displayed. Pre-reserved sub-assemblies that are yet not in stock are not displayed. **WMS integration:** This field also considers all WMS reservations for locking types Batch, LUID and Detail. ***See*** "B / L / D Reservation" field description below.

© 2026 Boyum IT Solutions A/S

Example in Issue function.

There are 2 lines with the same material
Stock = 100

in the first line you choose the item 50 Pcs
if you go on to the second line, you will see "available stock" = 50

Reason:
in an issue window you work with "soft reservation"
in the second line you cannot see the "soft reservation" from another line, another station or another process.

With this concept we can reduce the number of problems that may emerge when working with hard reservation

In "Reservation Window" Beas use a hard reservation and this type of reservation will be checked in every window and every line.

B Reserved
L Reserved
D Reserved

Quantity reserved by PMX WMS lock types:

- The three fields are hidden by default - Activate in Window settings.

Field	Locking Type (WMS)	Description
B Reserved	Batch	Quantity of batches reserved without considering any location, palette or other details. To keep the integrity of the system, Beas does not allow to consume more than the available quantity. ***Example:*** You want to reserve 6 units from two locations that contain 5-5 batches each. Beas will only allow max. 4 batches to reserve from one location, and 2 from the other.
L Reserved	LUID	Quantity of batches reserved for one specific palette (LUID) that can be moved in the warehouse. ***Example:*** Reserve 2 batch units on a palette, and the

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Locking Type (WMS)</th><th>Description</th></tr>
<tr><td></td><td></td><td>system moves the palette to the new location.</td></tr>
<tr><td>D Reserved</td><td>Detail</td><td>Quantity of batches reserved on a specific palette and location.</td></tr>
</table>

WMS integration:
The system supports Produmex WMS locking types "Batch, "LUID" and "Detail".
See documentation of the WMS Inventory locking system.
</td></tr>
<tr><td>Assigned</td><td>Thereof already assigned to the work order.</td></tr>
<tr><td>Reserve</td><td>Enter quantity manually to reserve for the above given work order
Insert the quantity you want to reserve or assign for the current Bill of Materials Line.
Double-click this line to assign the max. quantity automatically.

Note: In WO Stock Transfer Request this field is not used to reserve quantities! Here the creator of the request can indicate (request) quantities for specific batches/serials, which may be considered or dropped later in the SAP Stock Transfer document creation.
See WO Stock Transfer Request.</td></tr>
<tr><td>unit</td><td>Unit of measurement.</td></tr>
<tr><td>Warehouse, Warehouse icon [...]</td><td>Current warehouse and the icon of the warehouse</td></tr>
<tr><td>Bin location</td><td>Current bin location (Note: supports Beas, SAP and WMS Bin management)
WMS Integration: In the Configuration Wizard > WMS settings you can configure the system to filter stock according to WMS Zones and Bin locations for the WO Material Issue function.</td></tr>
<tr><td>RFID / LUID</td><td>The RFID or LUID Number for the Bin Location</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Info 1	Serial number: manufacturer serial number Batch number: Batch attribute 1
Info 2	Serial number: Batch number Batch number: Batch attribute 2
Info 3	Batch and serial number details.
Description	Item description. With activated item version control: description of item version.
Drawing number	Drawing number of item. With activated item version control: Drawing number of version.

udf1...udf4	Fields can be defined freely in `windowevent loadstock`
	Description
	There are serial number/batch related and normal items
	Serial number: `e_stock_serial_udf1 ..4, e_stock_serial_udfname1 ... udfname4`
	Batch: `e_stock_batch_udf1...4, e_stock_batch_udfname1 ... udfname4`
	Normal: `e_stock_std_udf1..4, e_stock_std_udf1name1 ... udfname4`
	
	The following tables are available:
	Serial number: `OSRN, OSRQ, OWHS, OITW, BEAS_WHSBINITEM, BEAS_WHS, BEAS_WHSBIN, BEAS_WHSAREA`
	Chargen: `OBTN, OBTQ, OWHS, OITW, BEAS_WHSBINITEM, BEAS_WHS, BEAS_WHSBIN, BEAS_WHSAREA`
	Normal: `OWHS, OITW, BEAS_WHSBINITEM, BEAS_WHS, BEAS_WHSBIN, BEAS_WHSAREA`
	
	To check which window is currently open, check the content of the variable "as_menu". In the reservation window "reservation" is stored.
	
	Example:
	in case of serial numbers and reservations in UDF1 the field U_myfield shall be displayed and labeled with "my field"
	`windowevent loadstock`
	`setvar=e_stock_serial_udf1=`OSRN`.`U_myfield``
	`setvar=e_stock_serial_udfname1=my field`
	`end event`
	
	Note:

© 2026 Boyum IT Solutions A/S

	Set variables are not reset as long as the window is not reopened. UDF's are only visible if activated in they are windows settings. ***See*** Customization.

back to issue and reservation window

Quantity available by PMX WMS lock types:

- The three fields are hidden by default - Activate in Window settings.

Field	Locking Type (WMS)	Description
B Available	Batch	Quantity of batches available for reservation without considering any location, palette or other details. To keep the integrity of the system, Beas does not allow to consume more material than the available quantity. ***Example:*** You want to reserve 6 units from two locations that contain 5-5 batches each. Beas will only allow max. 4 batches to reserve from one location, and 2 from the other.
L Available	LUID	Quantity of batches available for the reservation of one specific palette (LUID) that can be moved in the warehouse. ***Example:*** Reserve 2 batch units on a palette, and the system moves the palette to the new location.
D Available	Detail	Quantity of batches available for reservation on a specific palette and location. **IMPORTANT:** Moving is not possible.

WMS integration:

The system supports Produmex WMS locking types "Batch, "LUID" and "Detail".

See documentation of the WMS Inventory locking system.

© 2026 Boyum IT Solutions A/S

Quantity reserved by PMX WMS lock types:

- The three fields are hidden by default - Activate in Window settings.

Field	Locking Type (WMS)	Description
B Reserved	Batch	Quantity of batches reserved without considering any location, palette or other details. To keep the integrity of the system, Beas does not allow to consume more than the available quantity. ***Example:*** You want to reserve 6 units from two locations that contain 5-5 batches each. Beas will only allow max. 4 batches to reserve from one location, and 2 from the other.
L Reserved	LUID	Quantity of batches reserved for one specific palette (LUID) that can be moved in the warehouse. ***Example:*** Reserve 2 batch units on a palette, and the system moves the palette to the new location.
D Reserved	Detail	Quantity of batches reserved on a specific palette and location.

WMS integration:

The system supports Produmex WMS locking types "Batch, "LUID" and "Detail".

See documentation of the WMS Inventory locking system.

8.2.1.16.1.6 Selected material

Field	Meaning
...	Current status of the row: Deletion-icon: click to delete the reservation
Type	Type of reservation
Warehouse	Current warehouse
Batch	Batch number
Bin location	Current bin location

© 2026 Boyum IT Solutions A/S

RFID	RFID
SSCC	Support to Produmex WMS – SSCC code to identify a logistic unit.
Quantity	Reserved quantity
UoM	Unit of measure
Assignment	If the material is a Batch/Serial item, and it is consumed by another Batch/Serial-managed parent item, the distnumber information of that parent item is displayed here.

In WO Stock Transfer Request when total quantity is > the Top List request, the Top list request has to be updated to the new quantity.

Note: Selected batches or serial numbers serve only as reference in the stock transfer request for the user that creates the stock transfer request, but the stock transfer document could be created with a different selection.
See WO Stock Transfer Request creation process.

back to issue and reservation window

8.2.1.16.1.7 Scanner support

The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:
Production > Material posting > Backflushing > Material posting with scanner.

Active:
A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.
If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued.

Inactive:
Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.
Serial number: quantity is accepted immediately.
Item: entry selected, cursor is set to quantity field.

© 2026 Boyum IT Solutions A/S

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.
Error messages are issued in no case.

See

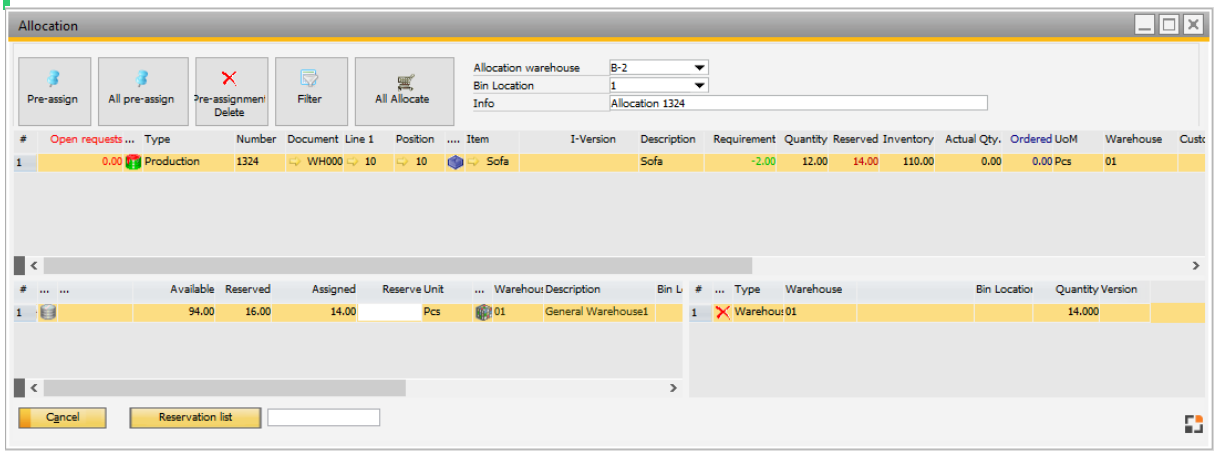
Configuration wizard – Material posting with scanner
Reservation
Material issue
Allocation
External operation Allocation
External operation issue

fert_scanbatchqty (J)

8.2.1.16.2 Allocation screen

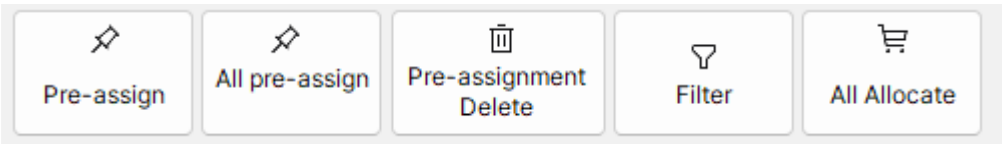
The allocation/deliver function is used to transfer material needed for a work order from a default warehouse to an allocation warehouse. The material is also reserved for that work order. When doing an allocation, Beas creates a transfer document. Usually this is cost-neutral and not assigned to the work order.

PATH: Production > Work Orders > right-click an allocation in the WO structure / right-click an item > "Allocation".



Window reservation_set_master.psr

Boyum Style top bar buttons design:



© 2026 Boyum IT Solutions A/S

- Prerequisites

  Reservation system must be activated.
  Allocation warehouse has been defined as type.

- Process of allocation

  Transfer from standard item warehouse or from warehouse defined in BoM to the allocation warehouse. Goods are transferred via SAP Business One-transfer function to the allocation warehouse, a reservation is created. After finishing the product: manual or automatic backflushing of the material.

  See: Reservation system
  Backflushing

Charge off reserved material

Window structure

Header Functions in header	
Requirement list	
Inventory list	selected material

- Scanner support

  The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:
  Production > Material posting > Backflushing > Material posting with scanner.

  Active:
  A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.
  If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued.

  Inactive:

© 2026 Boyum IT Solutions A/S

Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.
Serial number: quantity is accepted immediately.
Item: entry selected, cursor is set to quantity field.

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.
Error messages are issued in no case.

See
Configuration wizard – Material posting with scanner
Reservation
Material issue
Allocation
External operation Allocation
External operation issue

fert_scanbatchqty (J)

Fields right of the ribbon

Only some fields explained in the table below are displayed, depending on the work flow.

Field	Meaning
Posting date	**Postings**: select the posting date.
Allocation warehouse	**Allocation**: allocation warehouse. Setting is saved per work station. Note: this has no effect on the reservation and issue screen. ***See*** Reservation window, Material posting.
Bin location	Bin location of the external warehouse to which material is transferred (field is only displayed if the warehouse has bins). For reservation the definition of Bin Location is mandatory
Address	Address of the external warehouse.

Functions in upper ribbon:

Button	Meaning
Pre-assign Quantity (manually)	Visible in WO Stock Transfer Request window. With this option the user can manually pre-assign quantities for each

© 2026 Boyum IT Solutions A/S

material line based on the equivalent amount of the parent product. In the quantity field you can specify the quantity of the parent product. Apply changes for the selected lines.

Example:

To manufacture 1 product A, you need:

- 2 MA
- 3 MB
  - 20 MA
  - 30 MB
    - 2 * 2 = 4 MA
    - 2 * 3 = 6 MB
      - If Quantity is <= 0, the status bar message appears: "a quantity is required for pre-assigning"
      - if Quantity is > 0, calculation is made for each Material in the list, considering part of the quantity of this BoM according to the Parent Quantity Field on the pre-assign button. Consider proportion of calculated scrap quantity. The result will be in the Column "Request" of the Material List.
      - If you have reservations, the system will assign the reserved quantity to the right matrix.
      - Beas create a transfer request document in background. This don't support any Bin management system. It is possible to choose item from bin managed warehouse, but the bin location information is not saved in the transfer request document

Pre-assign Batches and Serials:

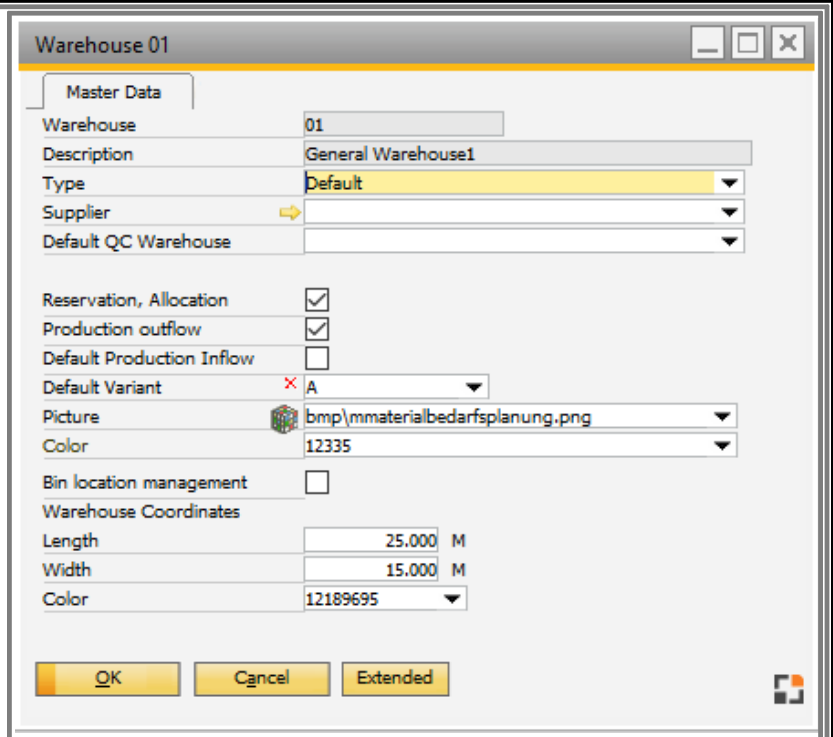
Attention: In WO Stock Transfer Request, the pre-assign process does not select any batch/serial numbers, unless there is an existing reservation.

See WO Stock Transfer Request creation process.

© 2026 Boyum IT Solutions A/S

Pre-assign	All entries selected in the upper list will be pre-allocated automatically Sorting 1. Reserved goods for this order line 2. Allocation warehouse 3. Default warehouse as per BoM or standard warehouse of the item Within this, batches and serial numbers are sorted by withdrawal rules according to the configuration wizard. ***See***: Configuration wizard. Normal items (not batch- or serial number related) will be pre-allocated only if the issue method was set to "automatic" in the Item master. ***See*** Item master – Issue method. Allocation rules **Batch and serial numbers** Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard. ***See*** Configuration wizard – Backflushing **Warehouse** Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.) ***See*** extended warehouse settings Available at **General settings > Warehouse > Warehouse master data > Extended**

© 2026 Boyum IT Solutions A/S



Window bin_whs_edit.psr

Attention

SAP Bin Management not supported.

Window bin_whs_edit.psr

Pre-assign Batches and Serials:

Attention: In the WO Stock Transfer Request, the pre-assign process does not select any batch/serial numbers, unless there is an existing reservation.

Extended rules

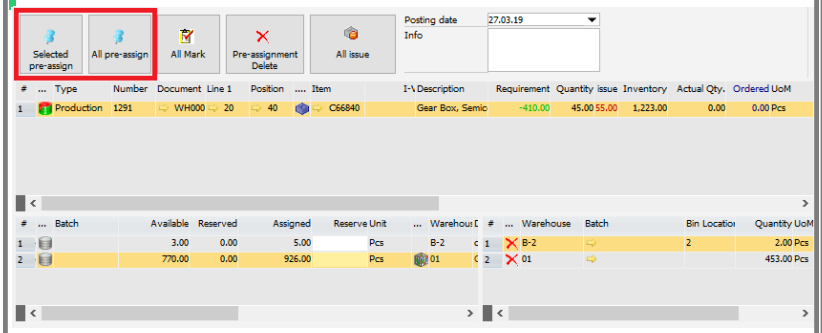
Extended rules can be stored in the function `workordermanagement.setres_reservation()`.

See Extended rules

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.

See Material booking > Automatic pre-assignment setting.

© 2026 Boyum IT Solutions A/S

	PATH: Production > Work orders structure > right-click an entry > "Reservation".  *Window resevation_set_master.psr* **Boyum Style button design:** These extended rules can be stored in the function "`workordermanagement.src`". (In project folder) Depending on the window a specific function is called, for example for reservations `setres_reservation()` ***See*** Pre-Assign buttons description For more information ***see*** UserEvents UserEvents for PreAssign
Pre-assign all	All entries are marked and then reserved. ***See*** Pre-assign and Pre-assign Quantity (manually) above.
Delete reservations	All reservations are deleted
Filter	**With shortage:** Display only items which still need to be allocated **Only allocation ID**: Only items with activated allocation ID (item master – allocate) **Standard:** All items which need to be allocated

© 2026 Boyum IT Solutions A/S

	All: All items. Also items which do not need to be allocated
Create Request	- visible in WO Stock Transfer Request window. With this button you can create a stock transfer request by pre-assigning quantities for the requested materials of a work order. The created request is then displayed in the work order structure. ***See*** WO Stock Transfer Request creation process.
All Allocate	- visible in External Production - Deliver Provisions Transfer all provisions
Close Transaction	- visible in External Production - Deliver Provisions Close transaction when creating the Goods Receipt Purchase Order document.

Right-click menu

Item	Meaning
Reservation list	Opens the reservation list
Reservation delete	Deletes existing reservations.
Filter: All	Lines which have been posted are also displayed.
Filter: only requirement	Standard view. Only lines which have not been posted are displayed.

Buttons below

Button	Meaning
Reservation list	Open the reservation list.
Inventory history	Open inventory history for the selected item.

Notes

- WMS, SAP and Beas Bin management system is supported.
- Beas RFID and WMS Luid is supported.
- Not possible to create issue for the same batch from different Bin locations or same Bin locations but different RFID/LUID.

back to list of provision parts
back to work order general

© 2026 Boyum IT Solutions A/S

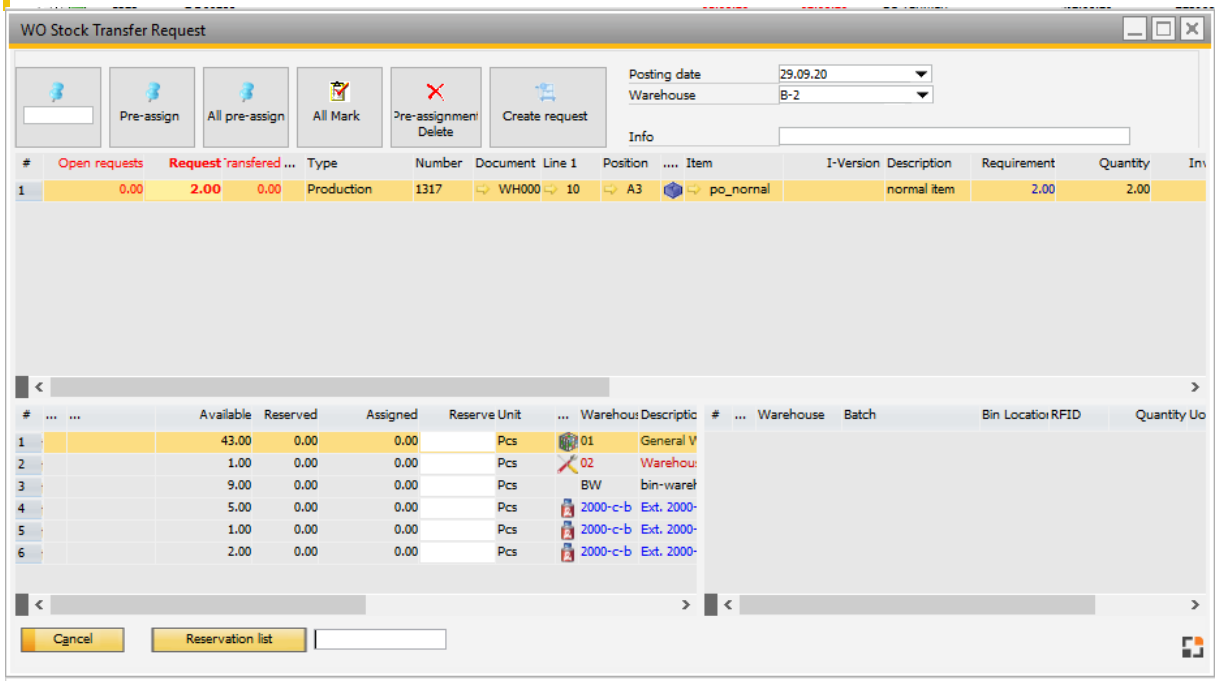
8.2.1.16.3 WO Stock transfer request

In this window you can create a stock transfer request based on Work order Bill of Materials, and so request partial or total quantities for a production location for one or multiple WO positions. Activation of the Reservation system is recommended but not mandatory.

The processing of these requests is equivalent to the current Allocation procedure in Beas, but create a SAP Business One transfer request.

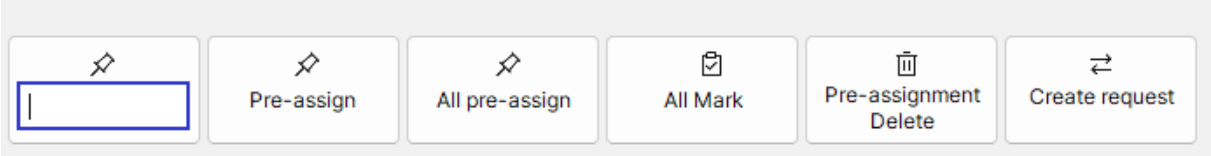
PATH: Production > Work Orders > right-click an entry > "WO Stock Transfer Request" option.

Note: To open this window/see this option in the right-click menu of work orders, activate "WO Stock transfer request" setting in WO structure view – Window settings.



Window reservation_set_master.psr

Button bar in Boyum Style design:



From Beas **work order BoM to** SAP Business One **Inventory Transfer:**

1. Create the request in this window.
2. Close the window and go back to the WO structure view.
3. Double-click on the newly created / Inventory transfer request line.

© 2026 Boyum IT Solutions A/S

4. The standard SAP Business One Inventory Transfer window opens where you can create a stock transfer document.

Closing the WO position also closes the remaining entries in the Stock Transfer Request and the system creates an Allocation.

WMS Integration:

As of Beas Manufacturing 2024.06 and later, the logic of creating reservations for a Beas WO Stock Transfer Request is also applied when WMS creates the document.

See VIDEO of a sample, WMS-integrated workflow: WO Stock Transfer Request with PMX WMS.

- Workflow

1. Create a "WO Stock Transfer Request" in Beas by reserving a Batch.
2. Go to WMS and click the "Generate picklist proposal" function in the newly created SAP Inventory Transfer Request document.
3. Select "Generate Pick list" in the Pick List Proposal document.
4. Once the Pick list is generated, start the WMS Mobile App, and complete the "picking process".
5. When the pick list process is completed, generate the Stock Transfer Request document based on this picked QTY. For this functionality we use the option "SHIPPING".
6. Now the new functionality starts and creates a reservation in the Beas reservation table and also in the WMS reservation table.

For detailed information with screenshots, ***see*** Beas-WMS documentation "Work Order Transfer Request" sub-chapter.

For functions and field descriptions click links in the window structure:

Header

- Pre-assign (manually)
  - With this option the user can manually pre-assign quantities for each material line based on the equivalent amount of the parent product. In the quantity field you can specify the quantity of the parent product. Apply changes for the selected lines.
- Pre-assign
  - All entries selected in the upper list will be pre-allocated automatically
    - Sorting
      1. Reserved goods for this order line
      2. Allocation warehouse
      3. Default
- All Pre-assign
  - All entries are marked and then reserved. ***See*** Pre-assign and Pre-assign Quantity (manually) above.

© 2026 Boyum IT Solutions A/S

Example:

To manufacture 1 product A, you need:

- 2 MA
- 3 MB
  - 20 MA
  - 30 MB
    - 2 * 2 = 4 MA
    - 2 * 3 = 6 MB
      - If Quantity is <= 0, the status bar message appears: "**a** quantity is required for pre-assigning"
      - if

warehouse as per BoM or standard warehouse of the item

Within this, batches and serial numbers are sorted by withdrawal rules according to the configuration wizard.
See: Configuration wizard.

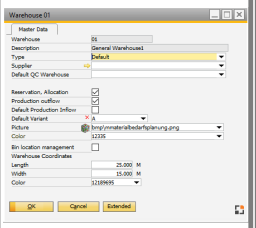
Normal items (not batch- or serial number related) will be pre-allocated only if the issue method was set to "automatic" in the Item master. ***See*** Item master – Issue method.

Allocation rules

Batch and serial numbers

Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration

© 2026 Boyum IT Solutions A/S

Quantity is > 0, calculation is made for each Material in the list, considering part of the quantity of this BoM according to the Parent Quantity Field on the pre-	wizard. ***See*** Configuration wizard – Backflushing **Warehouse** Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.) ***See*** extended warehouse settings Available at **General settings > Warehouse > Warehouse master data > Extended**  *Window bin_ whs_ edit.psr* **Attention** SAP Bin Management not supported. *Window bin_ whs_ edit.psr* **Pre-assign Batches and Serials:** **Attention**: In the WO	

© 2026 Boyum IT Solutions A/S

assign button. Consider proportion of calculated scrap quantity. The result will be in the Column "Request" of the Material List.

- If you have reservations, the system will not assign any batch/serial numbers, unless there is an existing reservation.

Stock Transfer Request, the pre-assign process does not select any batch/serial numbers, unless there is an existing reservation.

Extended rules

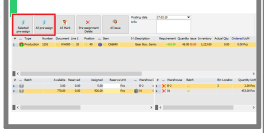
Extended rules can be stored in the function `workordermanagement.setres_reservation()`.

See Extended rules

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.

See Material booking > Automatic pre-assignment setting.

PATH: Production > Work orders structure > right-click an entry > "Reservation".



© 2026 Boyum IT Solutions A/S

em will assign the reserved quantity to the right matrix.

- Beas create a transfer request document in background. This don't support any Bin management

Window resevation_set_master.psr

Boyum Style button design:

These extended rules can be stored in the function "`workordermanagement.src`". (In project folder)
Depending on the window a specific function is called, for example for reservations `setres_reservation()`

See Pre-Assign buttons description

For more information ***see***

UserEvents

UserEvents for PreAssign

© 2026 Boyum IT Solutions A/S

system. It is possible to choose item from bin managed warehouse, but the bin location information is not saved in the transfer request document **Pre-assign Batches and**		

© 2026 Boyum IT Solutions A/S

Serials: **Attention**: In WO Stock Transfer Request, the pre-assign process does not select any batch/serial numbers, unless there is an existing reservation. ***See*** WO Stock Transfer Request creation process.		
Other functions in header		
Requirement list		
Inventory list **NOTE**: SAP/Beas/WMS Bin Locations are supported but not saved in this document.		Selected material

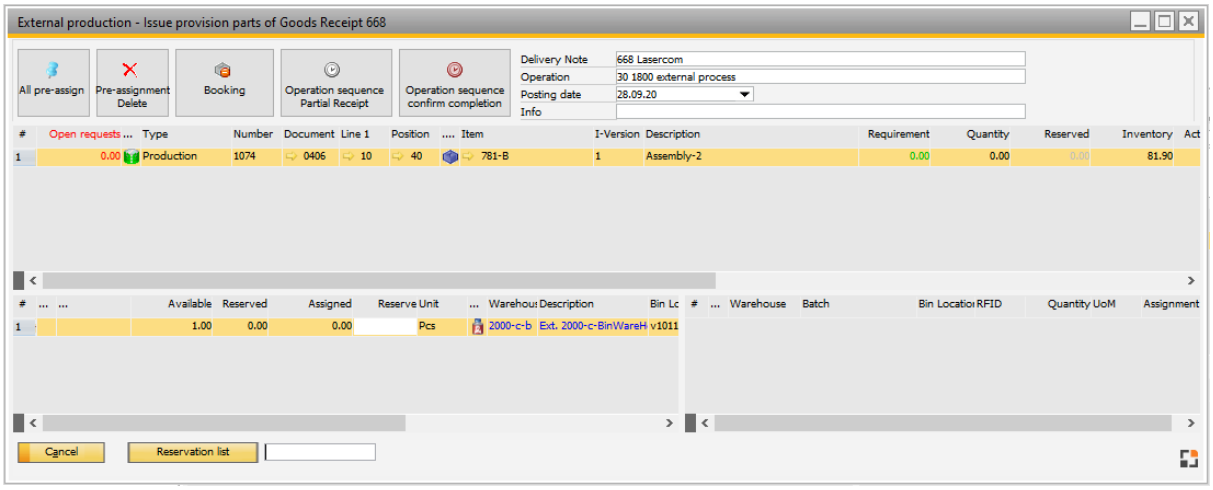
8.2.1.16.4 External Production - Issue provision of Goods Receipt XX

In this window, the material assigned in work order is issued from external manufacturing warehouse.

Window structure

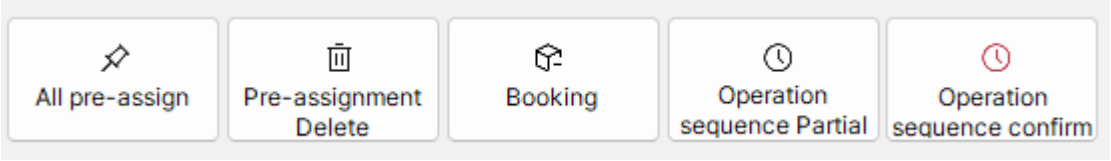
Header Functions in header	
Requirement list	
Inventory list	selected material

© 2026 Boyum IT Solutions A/S



Window reservation_set_master.psr

Button bar in Boyum Style design:



- Scanner support

The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:

Production > Material posting > Backflushing > Material posting with scanner.

Active:

A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.

If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued.

Inactive:

Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.

Serial number: quantity is accepted immediately.

Item: entry selected, cursor is set to quantity field.

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.

© 2026 Boyum IT Solutions A/S

Error messages are issued in no case.

See

Configuration wizard – Material posting with scanner

Reservation

Material issue

Allocation

External operation Allocation

External operation issue

fert_scanbatchqty (J)

Buttons

Functions	Meaning
All pre-allocate	Items to be allocated will be preallocated from the warehouse stock Under consideration of withdrawal rules and reservations the quantity to be charged off is proposed. Material is withdrawn only from the external warehouse selected in the purchase order. Sorting 1. Reserved good (not at reservation) 2. Allocation warehouse 3. Default warehouse according to BoM position or default warehouse of the item Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard. Items which are not batch- or serial number related, are pre-allocated only if the issue method was set to "automatic" in the Item master data. ***See*** Item master - Withdrawal method Allocation rules **Batch and serial numbers**

© 2026 Boyum IT Solutions A/S

Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard.

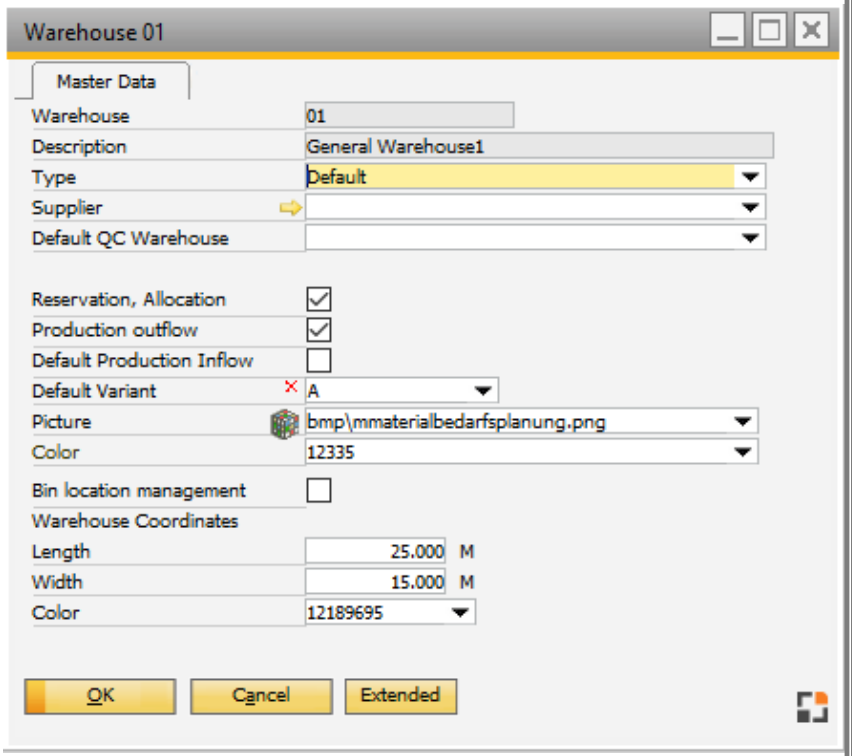
See Configuration wizard – Backflushing

Warehouse

Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.)

See extended warehouse settings

Available at **General settings > Warehouse > Warehouse master data > Extended**



Window bin_whs_edit.psr

Attention

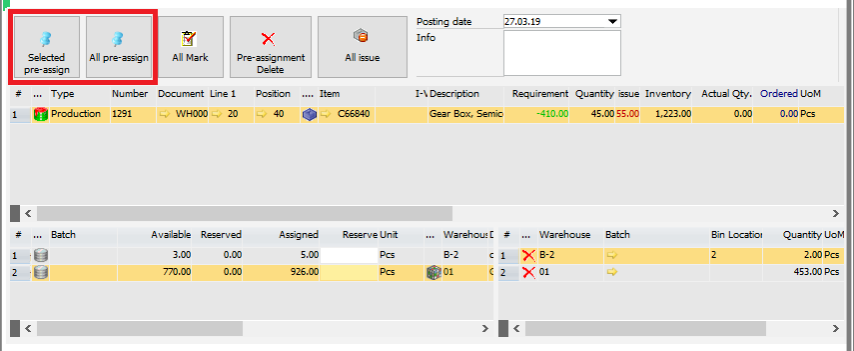
SAP Bin Management not supported.

Extended rules

Extended rules can be stored in the function `workordermanagement.setres_supply()`

See Extended rules

© 2026 Boyum IT Solutions A/S

	In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment. ***See*** Material booking > Automatic pre-assignment setting. PATH: Production > Work orders structure > right-click an entry > "Reservation".  *Window resevation_set_master.psr* **Boyum Style button design:** These extended rules can be stored in the function "`workordermanagement.src`". (In project folder) Depending on the window a specific function is called, for example for reservations `setres_reservation()` ***See*** Pre-Assign buttons description For more information ***see*** UserEvents UserEvents for PreAssign
Pre-allocation delete	All selected entries are deleted.

© 2026 Boyum IT Solutions A/S

Booking	Issue material for all selected positions. After booking, only remaining items yet to be posted are displayed. The window is not closed.
Operation sequence partial receipt	Partial receipt for the external operation. Next operation is released in the pool. If this is the last operation, the assembly is posted in.
Operation sequence confirm completion	Complete time receipt for the external operation. Next operation is released in pool. If this is the last operation,the assembly is posted in. The operation is closed.

NOTES:

- WMS, SAP and Beas Bin management system supported.
- Beas RFID and WMS Luid supported.
- Not possible to create issue from same batch from different Bin locations or same Bin location but different RFID/LUID.
- The "Exceeding planned quantity allowed" production configuration setting affects this function. ***see*** Configuration setting.

NOTE on reserved materials:

The reserved Material in External operation is at the level of the work order position and not the Purchaser order.
Therefore, if two Purchase orders were created for the same External operation, any of them can use the reserved material of the Work order.

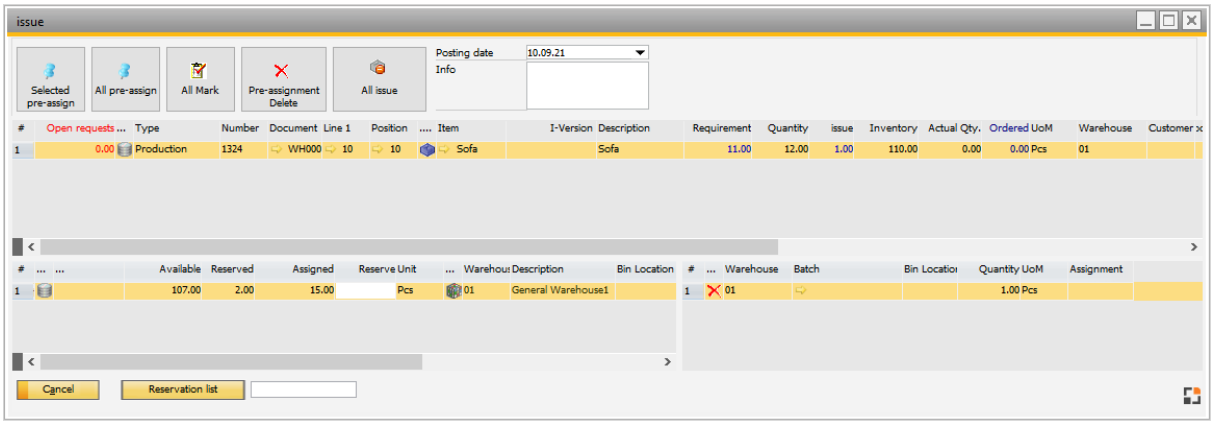
back to external operation

8.2.1.16.5 Material issue

In this window the required material is issued for a manufacturing position.
Note: For backflushing in Configuration wizard the option **Production > Material posting > Backflushing > "issue quantity changeable"** needs to be set to "Yes".
For allowing quantities to exceed planned quantities see **Production > Material posting > Backflushing > "Exceeding planned quantity allowed"**.

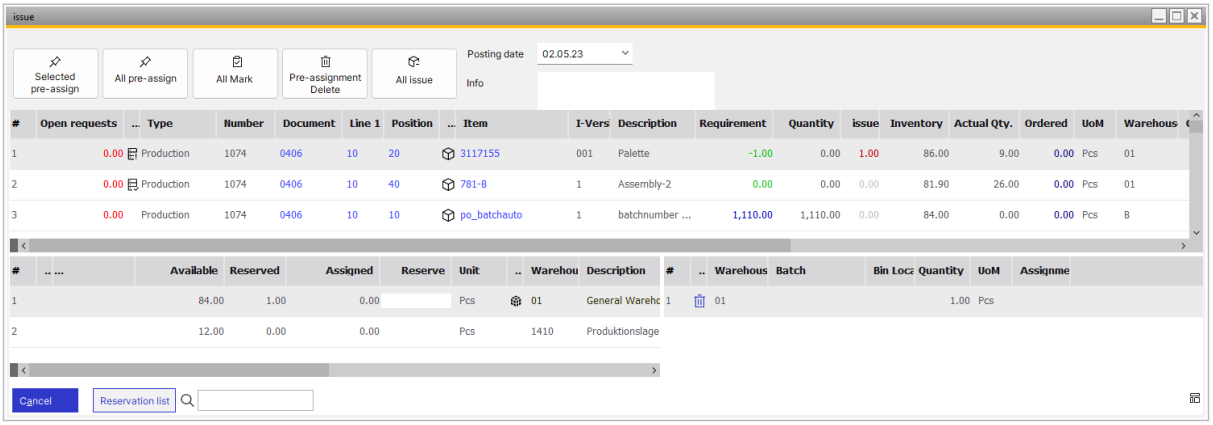
PATH: Production > Work Orders > right-click an issue in the WO structure / right-click an item > "Material issue".

© 2026 Boyum IT Solutions A/S



Window reservation_set_master.psr

Boyum Style design:



Window structure

Header	
Functions in header	
Requirement list	
Inventory list	selected material

Possible workflow variants

- **Work order structure > issue material**. Quantity refers to the full remaining planned quantity
- issue material via **routing-time receipt**. Quantity refers to time receipt screen. The material belonging to the operation is displayed. In case of the last operation to be reported, the assembly may be posted in afterwards.

© 2026 Boyum IT Solutions A/S

- External operation > **Material issue**: to issue the planned material from an external warehouse (***see*** allocations). Quantity refers to external operation-goods receipt

Scanner support

The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:
Production > Material posting > Backflushing > Material posting with scanner.

Active:
A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.
If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued.

Inactive:
Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.
Serial number: quantity is accepted immediately.
Item: entry selected, cursor is set to quantity field.

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.
Error messages are issued in no case.

See
Configuration wizard – Material posting with scanner
Reservation
Material issue
Allocation
External operation Allocation
External operation issue

fert_scanbatchqty (J)

Serial number linking, serial number reservation

Default warehouse, warehouse selection

In the warehouse you can set up, which warehouse is available for selection. Furthermore, the

© 2026 Boyum IT Solutions A/S

withdrawal sorting and the display can be defined using extended rules.

See

Inventory list

Extended rules

Edit warehouse master data - Production outflow

- Negative BoM items

Negative BoM items are displayed in the work order structure with the same icon and positive values. If selecting one, in the window left below not the warehouses are displayed but the entry values can be entered manually. Warehouse, bin location, batch / serial number and quantity can be entered. After entering the quantity, data is saved. Here, the same concepts apply for batch determination and pricing as used in Collective receipt *(beas9.0-000-003-014).*

- Exceeding planned quantity

The "Exceeding planned quantity allowed" parameter affects WO Material issue (Collective): the system checks the maximum allowed quantity based on total planned quantity.

Functions in upper ribbon

Button	Meaning
Pre-allocate marked entries	- All entries, marked in the upper list, are pre-allocated automatically All priorities are considered: 1. Reserved goods for this order line (not in reservation window). 2. Allocation warehouse (***see*** Allocation window). 3. Warehouse and Bin Location defined in Bill of Material position 4. Default warehouse for backflushing as per Configuration wizard - backflushing - issue from allocation warehouse. Within this sorting, batches and serial numbers are sorted by withdrawal rule according to the Configuration wizard. ***See*** Backflushing - Automatic batch issue. Note: If a warehouse is stored in Configuration wizard > Backflushing > issue from allocation warehouse, only this warehouse is considered at automatic backflushing. - Allocation rules

© 2026 Boyum IT Solutions A/S

If the option "book only reservation" in the BoM position is active, only reserved entries are chosen even if they are insufficient.
See Edit Bill of Material - Book only reservations.

Non-batch/serial number related items are pre-allocated only if the issue method was set to "automatic" in the Item master data > Issue method.

Note: Allocation warehouse is set up per work station. ***see*** Allocation window.

Negative BoM items
Negative BoM items are also pre-allocated, if
a) Batches/Serial numbers are defined automatically
b) The warehouse is not a bin location warehouse

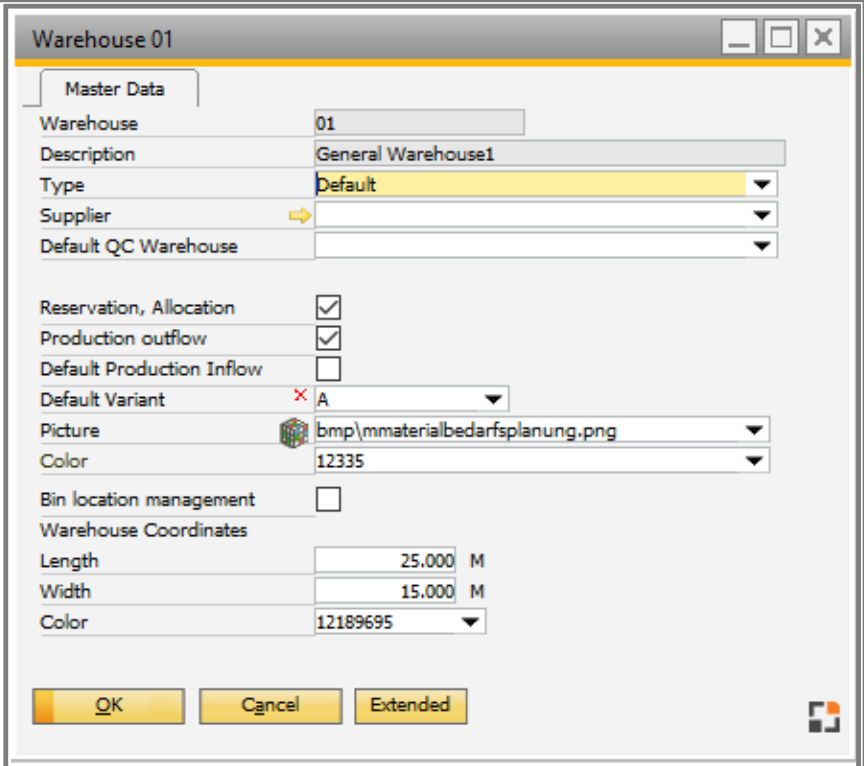
Batch and serial numbers

Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard.
See Configuration wizard – Backflushing

Warehouse

Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.)
See extended warehouse settings
Available at **General settings > Warehouse > Warehouse master data > Extended**

© 2026 Boyum IT Solutions A/S



Window bin_whs_edit.psr

Attention

SAP Bin Management not supported.

Window bin_whs_edit.psr

Extended rules

Extended rules can be stored in the function `workordermanagement.setres_supply()`

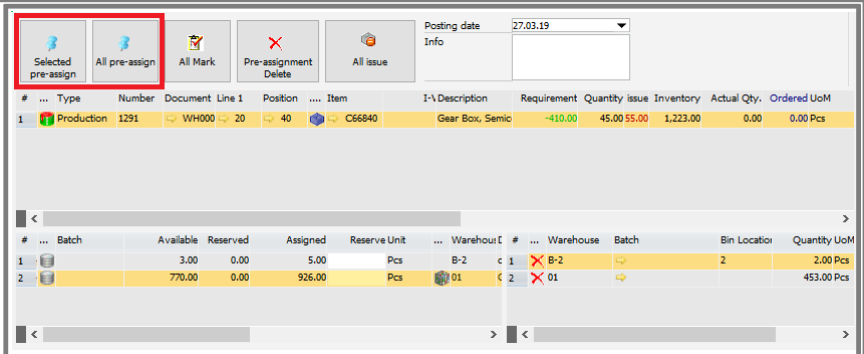
For further information ***see*** Extended rules.

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.

See Material booking > Automatic pre-assignment setting.

PATH: Production > Work orders structure > right-click an entry > "Reservation".

© 2026 Boyum IT Solutions A/S



Window resevation_set_master.psr

Boyum Style button design:

These extended rules can be stored in the function "`workordermanagement.src`". (In project folder)
Depending on the window a specific function is called, for example for reservations `setres_reservation()`

See Pre-Assign buttons description
For more information ***see***
UserEvents
UserEvents for PreAssign

Note: If working with **Report work order times > Scrap quantity**, the planned scrap and cut-off material may not be taken into account.

See
Configuration wizard – Backflushing
Requirement – Reservation window requirement – column requirement

Pre-allocate all	All entries are marked, and then pre-allocated.
Delete pre-allocations	All pre-allocations are deleted.
All issue	All marked material is charged off.

© 2026 Boyum IT Solutions A/S

Fields right of the buttons at the top

Only some fields explained in the table below are displayed, depending on the work flow.

Field	Meaning
Posting date	Select the posting date.
Info	Text field for comment.
Serial numbers	Display serial numbers to be posted in. This list is only displayed if a) the finished part is serial number related. b) the selected material is serial number or batch related. c) serial number reservation was set to automatic and serial numbers are generated automatically for the assembly or if serial number reservation was set to manually. Serial numbers to be posted in are displayed and new serial numbers to be posted in can be added. If an item is selected, it is assigned to the currently marked number. The Function "issue material" does not post immediately. Manually added serial numbers are reserved first and assigned to the work order - even if serial number reservation was disabled. Existing reservations are always displayed. ***See*** Configuration wizard - Assembly - Serial numbers The function "backflushing issue" for example via "last operation" displays only the serial numbers to post in. Additional serial numbers can be entered manually. To post in, select serial numbers by clicking the check mark. The number of selected numbers needs previously selected number. Otherwise a message is issued: (*issuewoserlnk)'Please select a serial number item and in the upper window the serial number to be posted in. Planned quantity xxx, selected yyy'*

© 2026 Boyum IT Solutions A/S

	At the assignment of serial numbers to serial numbers the material serial numbers may not be selected automatically. A manual selection is required. Therefore, it is recommended to set backflushing to of serial numbers to "manually" ***See*** Configuration wizard – Material – Backflushing – Serial numbers, Serial number reservation, Serial number tracing. *beas9.0-000-003-000*

Right-click menu

Item	Meaning
Reservation list	Open the reservation list.
Reservation delete	Delete existing reservations.
Filter: all	Lines which have been posted are also displayed.
Filter: only requirement	Standard view. Only lines which have not been posted are displayed.
New series	This button is active only if assembly and material position are serial number related. With "New series" a new serial number to be posted in later can be added and assigned to the serial number to be issued. ***See*** Serial number. *beas9.0-000-001-000*

Notes

- WMS, SAP and Beas Min management system supported.
- Beas RFID and WMS LUID supported.
- Not possible to create issue from same batch from different Bin locations or same Bin location but different RFID/LUID.

back to Work order general

8.2.1.16.6 Serial Number linking

If the assembly and the material are serial number related, a linking of serial numbers is possible.

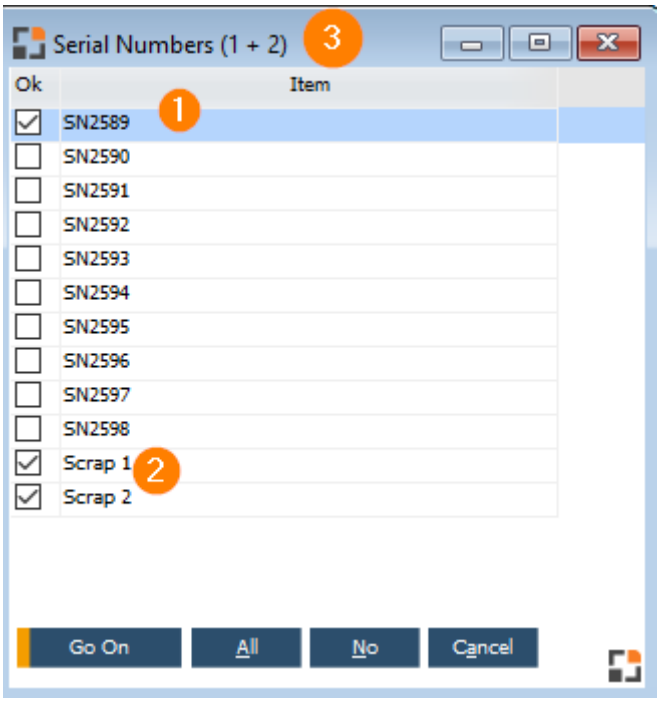
If the option "also post serial numbers" in the Configuration wizard is set, a window pops up where you have to select the serials for the finished product - for which the material will be booked.

© 2026 Boyum IT Solutions A/S

If the scrap is also to be reported during the reporting process, the '"serial list" contains entries for the scrap, as well.

Example:

Here, the quantity of one good and two scraps is reported in a time receipt:



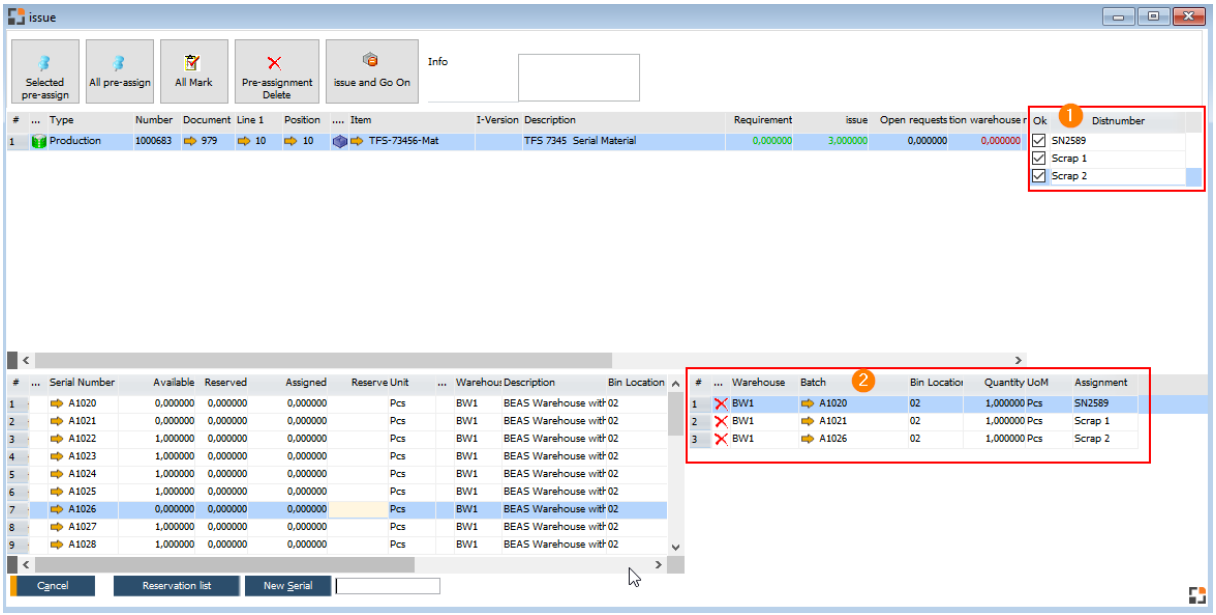
1) The first available serial number is checked. It is possible to change the selection by clicking another row.

2) For the scrap, 2 lines are added and checked. It is not possible to deselect them.

3) In the title you can see the number of serials to select (1 good and 2 scrap)

4) After this selection, the issue window shows all the previously selected serials (1), and you have to link the material serials to the serials for the finished product (2):

© 2026 Boyum IT Solutions A/S



See also Serial numbers, Serial number reservation, Serial number tracing

8.2.1.16.7 WMS Picklist for Production

Pick list for production

In this window you can create a request for picking to production.

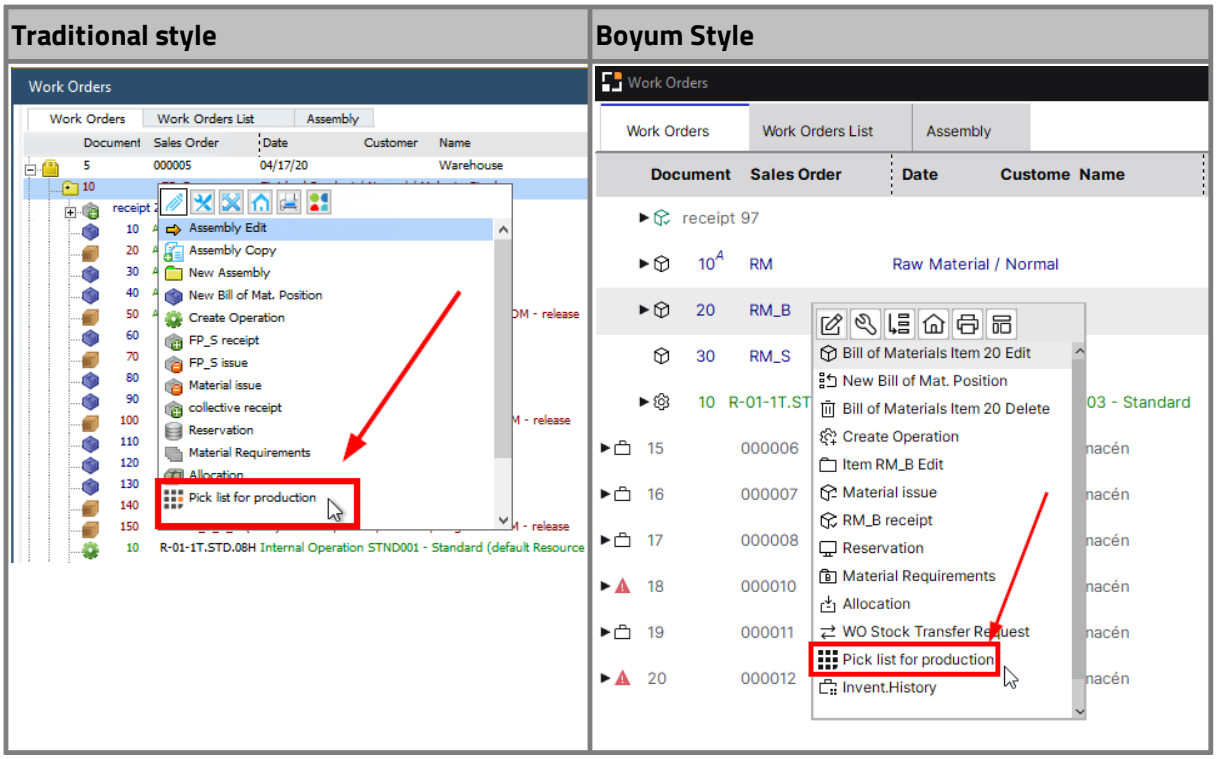
See WMS settings

See WMS Pick list for production work flow.

PATH: Production > Work orders > right-click a WO or BoM position

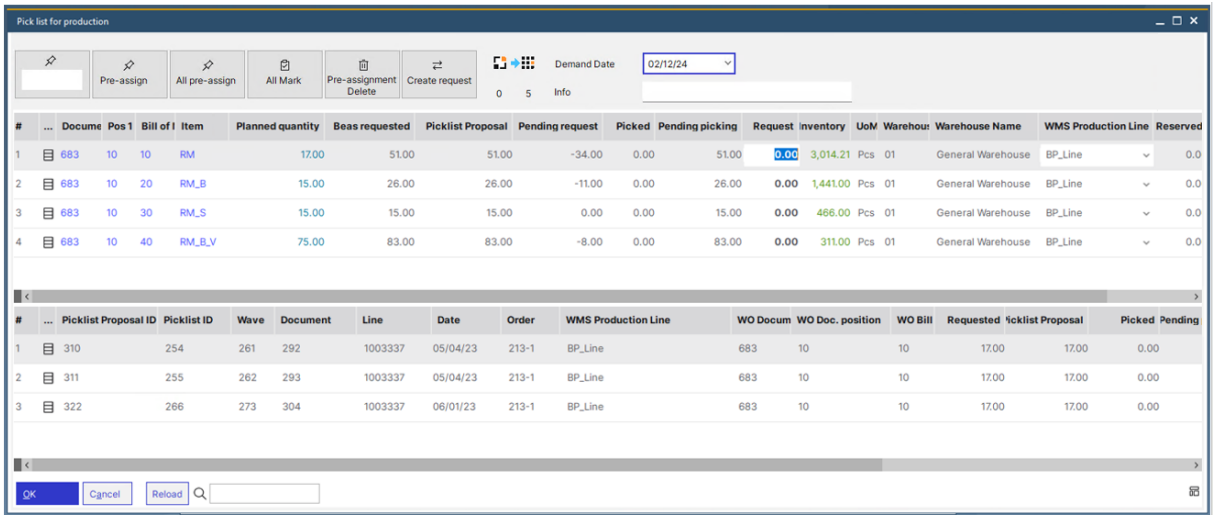
Note: You can also access the function by multiple selection of WO Headers/positions and BoM positions.

© 2026 Boyum IT Solutions A/S



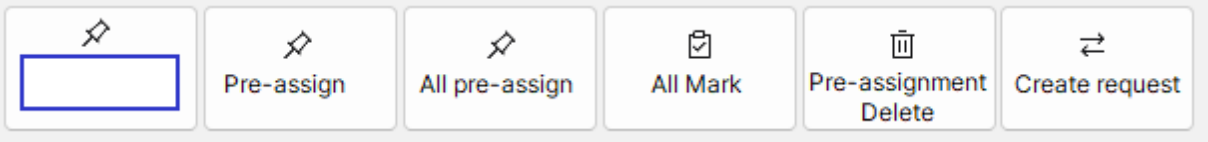
The window is based on the Beas Reservation/Allocation window structure with only one bottom screen section.

Window settings are available.



© 2026 Boyum IT Solutions A/S

Boyum Style functions bar:



Window wmspickproduction.psr

Limitation:

WMS picking process does not support Beas I-Version control.

IMPORTANT: Synchronization between WMS Locking and Beas is *only* for WMS locking types "Batch", "LUID" and "Detail"! Item level locking is not considered by Beas.

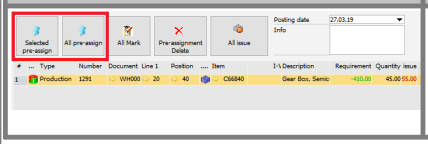
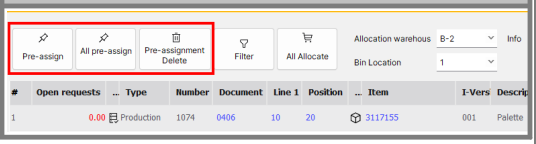
Header (Functions)

Function/Field	Description

Assign quantity	With this option the user can manually pre-assign quantities for each material line based on the equivalent amount of the parent product. In the quantity field you can specify the quantity of the parent product. Apply changes for the selected lines.
	
	Example:
	To manufacture 1 product A, you need:
	• 2 MA
	• 3 MB
	  • 20 MA
	  • 30 MB
	  • 2 * 2 = 4 MA
	  • 2 * 3 = 6 MB
	  • If Quantity is <= 0, the status bar message appears: "a quantity is required for pre-assigning"
	  • if Quantity is > 0, calculation is made for each Material in the list, considering part of the quantity of this BoM according to the Parent Quantity Field on the pre-assign button. Consider proportion of calculated scrap quantity. The result will be in the Column "Request" of the Material List.
	  • If you have reservations, the system will assign the reserved quantity to the right matrix.

© 2026 Boyum IT Solutions A/S

Function/Field	Description
	• Beas create a transfer request document in background. This don't support any Bin management system. It is possible to choose item from bin managed warehouse, but the bin location information is not saved in the transfer request document
Pre-assign / All pre-assign	With the pre-assign buttons you can assign inventory automatically.

Traditional style	Boyum Style
	

Pre-assign: Action is performed for all marked entries.
All pre-assign: Action is performed for all entries.

The warehouse inventory is pre-assigned to the requirement automatically with the following sorting rules and filter rules:

Sorting

1. Reserved goods (not in reservation process)
2. Allocation warehouse (***see*** Allocation window)
3. Warehouse and Bin location defined in BoM position
4. Standard warehouse of the item

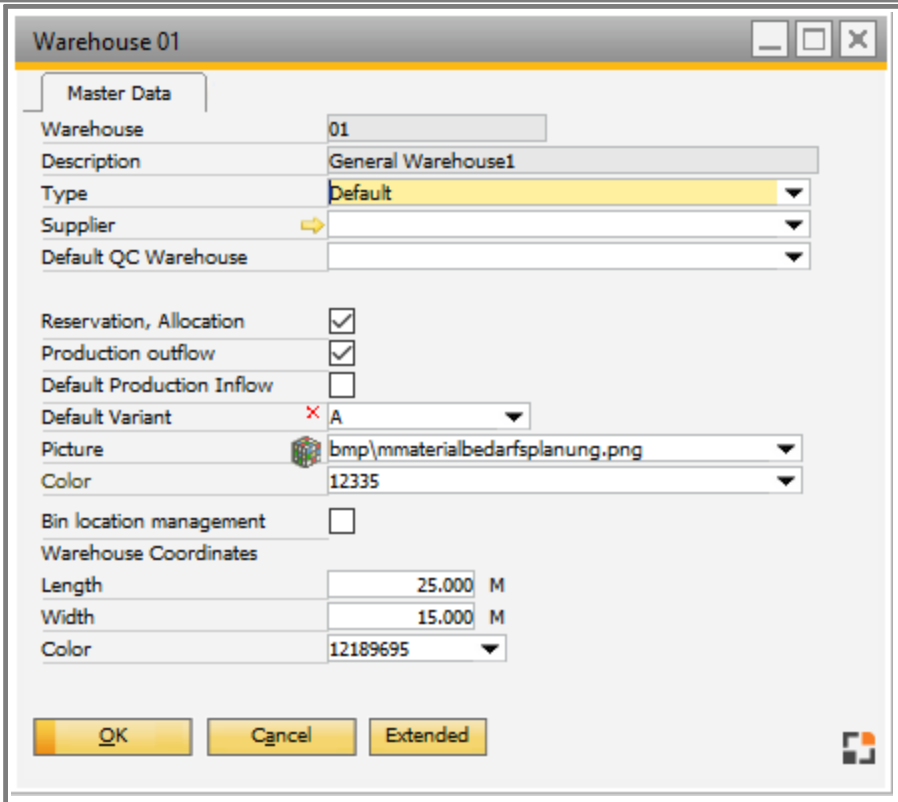
Within this,
a) batches and serial numbers are sorted by the withdrawal rule according to the Configuration wizard. ***See***: Configuration wizard
b) if Bin managed: Issue Sorting defined in Bin definition

Normal items (not batch- or serial number related) will be pre-allocated only if the issue method was set to "automatic" in the Item master. ***See*** Item master – Issue method

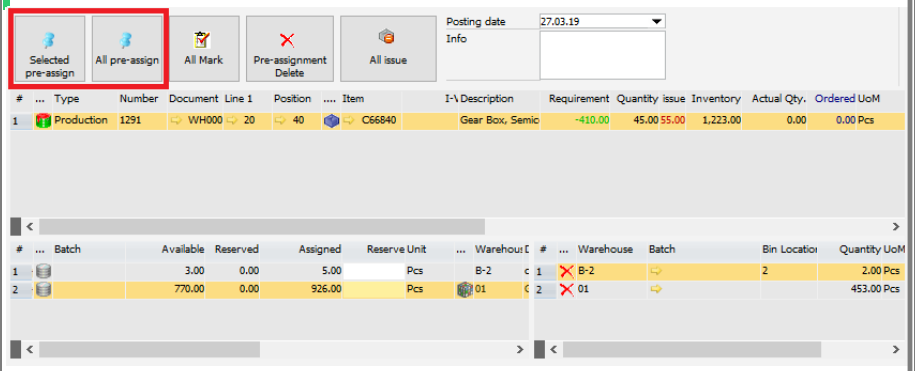
© 2026 Boyum IT Solutions A/S

Function/Field	Description
	Note: Allocation warehouse is set up per work station. ***See*** Allocation window. Allocation rules **Batch and serial numbers** Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard. ***See*** Configuration wizard – Backflushing **Warehouse** Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.) ***See*** extended warehouse settings Available at **General settings > Warehouse > Warehouse master data > Extended**

© 2026 Boyum IT Solutions A/S

Function/Field	Description
	 *Window bin_whs_edit.psr* **Attention** SAP Bin Management not supported.
	Rounding / Multiple of In this column you can see the requirement. For Planned Quantity the system calculates with the Rounding system. Requirement = the calculated Quantity - Booked Quantity The Requirement is not rounded again. But if you **Pre-assign** the quantities, the system rounds the result again. ***Example:*** Plan Quantity = 4.5, Round = multiple of 2. Requirement = 6 Issue document for 5 Pcs, Requirement is 1 Click on **Pre-assign**: The system defines 2 Pcs, because it works with rounding "multiply of".

© 2026 Boyum IT Solutions A/S

Function/Field	Description
	Why: ***Example:*** You are working with pallets. Multiple is 1 You need 0.2 Pallets per Pcs. But for every receipt + backflushing process you need a pallet and not part of a pallet. This is the reason that the system MUST use the rounding concept for every partial receipt and related issue document.
	Extended rules / Customization / Script
	In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment. ***See*** Material booking > Automatic pre-assignment setting. PATH: Production > Work orders structure > right-click an entry > "Reservation".  *Window resevation_set_master.psr* **Boyum Style button design:** These extended rules can be stored in the function "`workordermanagement.src`". (In project folder)

© 2026 Boyum IT Solutions A/S

Function/Field	Description
	Depending on the window a specific function is called, for example for reservations `setres_reservation()` ***See*** Pre-Assign buttons description For more information ***see*** UserEvents UserEvents for PreAssign
All Mark	Mark all entries in the requirement window section.
Pre-assignment delete	Delete pre-assignment of quantities for the selected lines.
Create request	Create a pick list proposal or pick list proposal + picking list. Request is created based on the Configuration wizard WMS settings. **Attention:** If you click on the "reload" button while the "Create request" function is being processed by WMS, Beas shows an icon for error ( ). If you click the "reload" button again, the Beas retrieves the current information. Once the WMS document is generated, the system shows the final message.
	The icons represent the two responding, running services of the two products. ***See*** WMS Pick list for production work flow. Below the icons, the system displays the number of pending messages to be processed.
Demand Date	The date for the picking to be processed.
Info	Free text.

Requirement area – Field descriptions

Field	Description
...	Status of the row displayed with an icon.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Icons</th><th>Boyum Style</th><th>Description</th></tr>
<tr><td></td><td> </td><td>Clock icon: the command is pending to be processed by WMS.</td></tr>
<tr><td> </td><td> </td><td>Gray barrel: If Beas requested quantity is greater than 0.</td></tr>
<tr><td> </td><td> </td><td>Half gray - half green barrel: If picked quantity is greater than 0, and picked quantity is less than planned quantity.</td></tr>
<tr><td> </td><td> </td><td>Green (full) barrel: If picked quantity is = planned quantity.</td></tr>
<tr><td> </td><td> </td><td>Red overflown green barrel: If picked quantity is greater than planned quantity.</td></tr>
<tr><td> </td><td> </td><td>Error in the process, e.g. problem in the services or communication, or insufficient inventory.
See Protocol</td></tr>
</table>
</td></tr>
<tr><td>Document</td><td>Work order document number</td></tr>
<tr><td>Pos</td><td>Work order document position</td></tr>
<tr><td>Bill of Materials Pos</td><td>Bill of Materials position</td></tr>
<tr><td>Bill of Materials Pos ID</td><td>Bill of Materials position ID</td></tr>
<tr><td>Item</td><td>Item</td></tr>
<tr><td>Description</td><td>Item Description</td></tr>
<tr><td>Planned quantity</td><td>Total requirement without consideration of the reserved quantity.

Color codes:
RED: If planned quantity is greater than inventory quantity.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	BLUE: If planned quantity is greater than 0 and less than inventory quantity. BLACK: in all other cases
Beas requested	The quantity requested from WMS by Beas.
Picklist Proposal quantity	Quantity already requested.
Pending request	This quantity = Planned Qty - Picked Qty - Pending picking quantity. When a Pick list is closed, the total "Pending Request" quantity is increased with the non/picked quantity from the Closed Pick list.
Picked	Picked quantity **Color codes:** RED: If picked quantity is greater than Beas requested quantity. BLACK: in all other cases
Pending picking	Quantity remaining to be picked from Planned quantity minus Beas request- and Pick list proposal quantities. Pending quantity to pick from a pick list.
Request	Editing field to indicate the manually or automatically preassigned Quantity to request for the selected Material. Entering the value is mandatory.
Inventory	Complete inventory of all warehouses. **Color codes:** RED: If Inventory quantity is less or equal to 0, or if this quantity is less than the pending requirement. GREEN: in all other cases.
UoM	Inventory UoM
Warehouse	Warehouse number
Warehouse name	Warehouse name
WMS Production Line	Modify Production line selection manually from the editable drop-down. The line checks if the resource has a Production line, otherwise it

© 2026 Boyum IT Solutions A/S

Field	Description
	applies the position production line. **Automatic assignation:** When defined in the Warehouse rules, Warehouse master or Resource master linked to the current WO position, any change in the related fields is automatically updated here. ***See*** WMS Production Line. NOTE: The mass change of production lines is only possible when the warehouse is the same.
Reserved	Total reserved quantity
Batch	The field contains the list of all batches reserved for a specific work order position. **Important:** This field shows all linked batches separated by "|" in one single record. **WMS integration:** Create WMS picklists for reserved batches in Beas. Quantities pending to be picked (with WMS "Ready" status) are displayed in the Work order structure. ***See*** Workflow video: ***See*** Workflow written in bullet points in integration documentation.

Inventory list area – Field descriptions

Field	Description
...	Status of the row displayed with an icon.

Icons	Boyum Style	Description
		Gray barrel: If picked quantity = 0, it is gray.
		Half gray - half green barrel: If picked quantity is less than pick list proposal

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Icons</th><th>Boyum Style</th><th>Description</th></tr>
<tr><td></td><td></td><td>quantity.</td></tr>
<tr><td> </td><td> </td><td>Green barrel (full): If picked quantity is equal to pick list proposal quantity.</td></tr>
<tr><td> </td><td> </td><td>Red overflown green barrel: If picked quantity is greater than pick list proposal quantity.</td></tr>
<tr><td> </td><td> </td><td>Error in the process, e.g. problem in the services or communication, or insufficient inventory.
See Protocol</td></tr>
</table>
</td></tr>
<tr><td>Picklist ID</td><td>Pick list ID number</td></tr>
<tr><td>Wave</td><td>Produmex WMS Wave information</td></tr>
<tr><td>WMS Production Line</td><td>WMS Production Line</td></tr>
<tr><td>Requested</td><td>The quantity requested from WMS by Beas.</td></tr>
<tr><td>Picklist Proposal</td><td>Pick list proposal quantity.
Color codes:
RED: If pick list proposal quantity is less than Beas requested quantity.
BLACK: in all other cases.</td></tr>
<tr><td>Picked</td><td>Picked quantity
Color codes:
BLACK: If picked quantity is equal to 0.
BLUE: If picked quantity is less than or equal to pick list proposal quantity
RED: in all other cases</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
Pending picking	Quantity remaining to be picked from Planned quantity minus Beas request- and Pick list proposal quantities. Pending quantity to pick from a pick list.
UoM	Inventory UoM
WO Doc Position	Work order document position
Status	Status of document: - Open - Closed
Batch number	Batch number information. The field is empty by default (no rules are applied by the system) and can be filled with customization.
Best before date	WMS best before date. ***See*** complete integration details in Bill of Materials positions description.
Creation Date	Date of request.
Created by	The user who registered the request.

(Right-click) Functions

Function	Description
Cancel	Close window without saving changes.
Reload	Reload window.
Search	Search requirement
Filter: All	Lines which have been posted are also displayed.
Filter: Required	Standard view. Only lines which have not been posted are displayed.
Inventory history	Open Inventory history for the item.

8.2.1.16.8 backflushing screen (beas 2009 version)

Note: This window will be deleted soon! All 2009 Variants are to be disabled as of early 2020.

© 2026 Boyum IT Solutions A/S

This old window opens for backflushing material if in Configuration wizard **> Production > Material posting > Backflushing > issue quantity changeable: YES (beas2009 version)** was selected.
This window has fewer features than the default backflushing window, but negative BoM quantities are supported.

The quantity, the warehouse, batches and serial numbers can be selected. Negative BoM quantities are supported. Pre-allocation according to Automatic pre-allocation of batches.
Reservation: The pre-allocation functions considers the reservation, but is not designed for it. When working with serial number access reservation, this option (YES for 2009 version) must currently be selected, because only this window is allowing that assignment.
This option should not be selected when working with reservation or with bin locations.

8.2.1.17 Collective receipt

The function collective post-in is available for merged work orders. All assembly items and **negative** BoM items can be posted at once. There is no material backflushing.

The function is accessible via:

PATH: Production > Work order structure > right-click on production order > Collective receipt.

or

PATH: Terminal > app "production collective receipt".

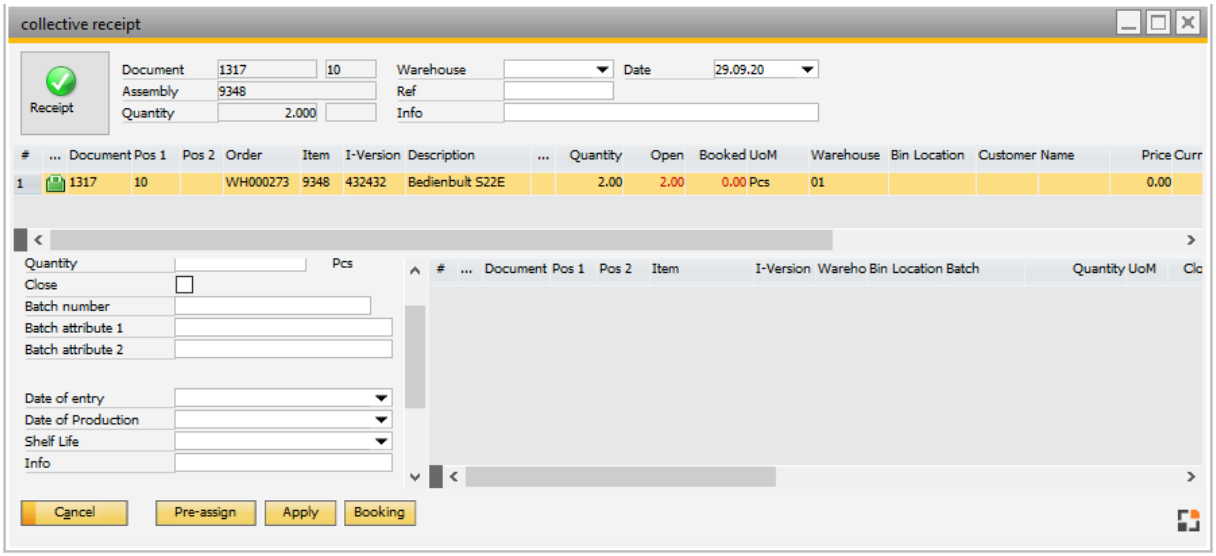
If called from work order structure, several work orders can be selected at once.

Batches, automatic batch determination, serial numbers, automatic serial number determination bin location management are supported.
WMS Integration: Produmex WMS Batch attributes are supported.
Serial number reservation is not supported.

The window consists of three sections:

Upper section	Planned receipt List is adjustable via **Right-click > Window settings.**
left below	Enter the quantity to post in for the currently selected (above) line Enter quantity, batch number, batch attributes, and price
right below	Displays already selected items

© 2026 Boyum IT Solutions A/S



Window fert_postin_summary_header.psr

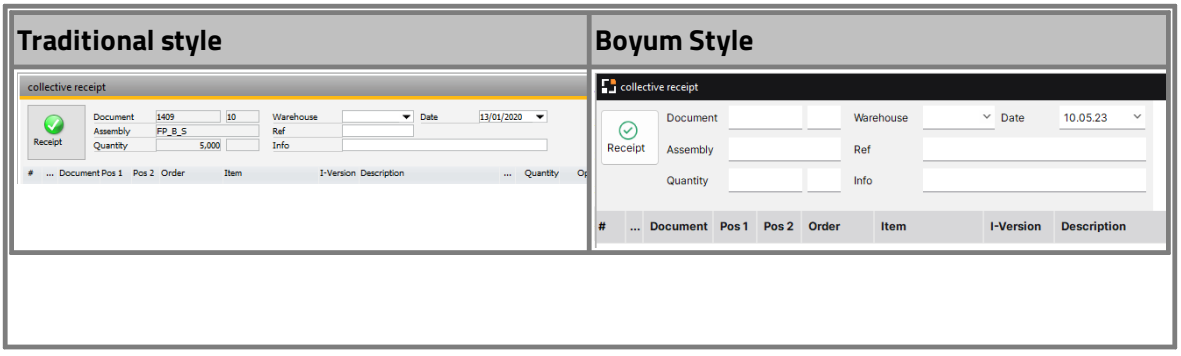
Workflow

1. With cursor up/down the next position from the upper list can be selected.
2. In the left window you can insert additional information such as Quantity, Batch number etc.
3. With the "**Apply**" button you can choose the position with the defined quantity,
4. With "**Booking**" you can create the receipt document.

For batches and serial numbers with automatic number generation, only the quantity can be entered, because the numbers are automatically generated when creating the accounting document.
The expiration date is pre-assigned automatically. ***See*** Item - batch - shelf life
In production type you can set up whether batches or serial numbers are generally entered manually (enable manual batches). In this case batch numbers always need to be entered (e.g. for disassembly). ***see*** Production type - manual batches

Field descriptions

- Header



© 2026 Boyum IT Solutions A/S

Display the current work order. If more than one work order is chosen, the system displays the first work order

The following additional fields define properties for the receipt document.

Field	Description
Warehouse	If empty, the system uses the warehouse defined in the work order. If you change the Warehouse, all positions are receipted on this warehouse. Note: If you change the Warehouse and work with different WIP Accounts, this can produce problems in accounting! If you choose a warehouse from another branch, the receipt returns an error. ***See*** Warehouse rules.
Ref	Reference displayed on the Receipt document. If empty, the Bar code of the Work order is displayed.
Info	Additional reference. If empty, the note on the current work order is shown.
Date	The posting date. You can define a posting date for the past.

Upper list

Planned receipt is displayed in the upper list. Use window settings to adjust.

Note on WMS Integration

If the receipt is made from Beas in a WMS warehouse, it applies the Quality status defined in **Produmex WMS > Organizational Structure > Production tab**.

It is not recommended to have more than 1 serial number per LUID, because the WMS Quality Status cannot be defined per serial number.

Field	Description
Document	Work order document

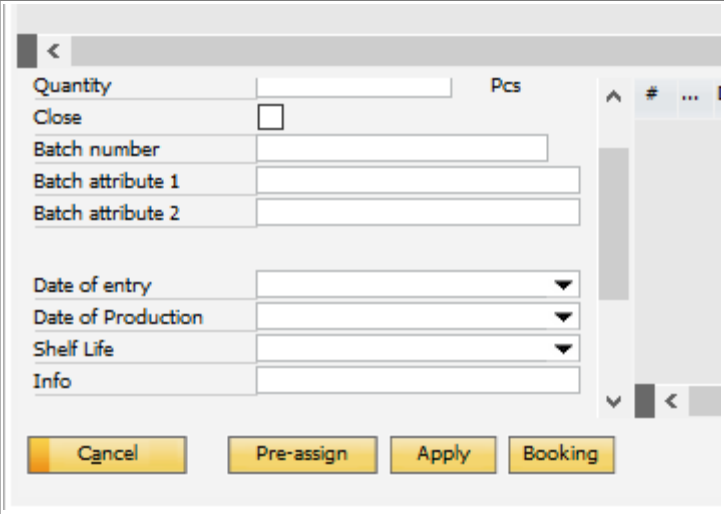
© 2026 Boyum IT Solutions A/S

Pos 1	Document position (Assembly)
Pos 2	BoM item (for assembly always 0) otherwise the Pos-ID of the BoM with negative amount
Order	Order number of work order document
Item	Item number of the assembly
Designation	Designation of the assembly
Quantity icon	Visual display of registered quantity (empty) – no registration some quantity has been registered the correct quantity has been registered too much registered
Quantity	Planned total quantity as per work order (without scrap) in warehouse units
Open	Quantity still to post in: Planned quantity - posted qty + canceled qty - selected qty = open (in warehouse units) Column is display in colors: Red = open > 0 (still something to post) Green = open = 0 (everything completed correctly) Blue = open < 0 (too much was posted)
Posted	Already posted quantity: posted qty - cancelled qty + selected qty = posted (in warehouse units) Column is display in colors:

© 2026 Boyum IT Solutions A/S

	Red = open > 0 (still something to post) Green = open = 0 (everything completed correctly) Blue = open < 0 (too much was posted)
Unit	Unit (warehouse unit)
Warehouse	Warehouse to post to. Note: The warehouse stored in thew work order item is displayed. If no warehouse was entered, the default warehouse of the assembly is used.
Customer	Customer number from the work order
Name	Customer number from the work order
Quantity CU	Planned quantity without cut-off in consumption units
Unit CU	Unit in consumption units
Factor	Conversion factor between warehouse and consumption unit
Price	Manually entered price 0 = Price is determined automatically Price valuation ***see*** Configuration wizard – Calculation Entry of price only possible if enabled in production type. ***see*** Production type – manual price

Left window



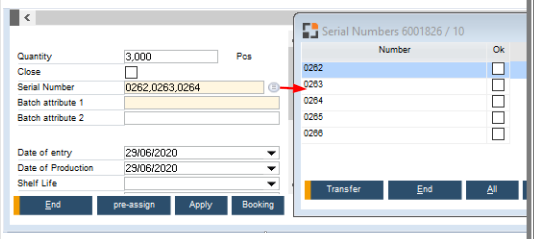
© 2026 Boyum IT Solutions A/S

In this area you can insert details for the Assembly or Bill of materials for post in.

Field	Description
Bin Location	Define the Bin Location. Only visible in case of bin-managed warehouses. ***See*** Warehouse rules. Note / Limitation: If you book one work order position on a different bin location, the system creates one document line per Bin location.
LUID	Define LUID number. ***See*** LUID behavior settings.
Quantity	Define the post-in Quantity
Close	Define if the work order position or Bill of material position should be closed: If "close assembly automatically" in Configuration wizard is activated and the total receipt quantity is equal to or bigger than the planned quantity, the system activates this flag automatically. *Beas 2020.02* Note: The system cannot close the complete work order.
Batch / Serial Number	Define the Batch or serial number: **Items with automatic batch Generation:** If you insert a batch/serial number, the manual input has higher priority. Otherwise, it generates the batch/serial number automatically. **Working with Serial number reservation** If Serial Number reservation is active, the system uses the next reserved serial numbers automatically.

© 2026 Boyum IT Solutions A/S

Field	Description

	Alternatively you can choose one of the reserved serial numbers *beas 2020.08*
	 
	
	Serial numbers with comma
	You can insert more than one serial number. Delimiter is comma:
	`serial-a,serial-b,serial-c ...`
	Limitation: max. field size is 1024 characters.
	
	Serial number with definition string
	The numbering must be inside brackets: { and }
	
	Example: `AB{0001}C` produce follow serial numbers:
	`AB0001C, AB0002C, AB0003C,AB004C,...AB012C ...`

Batch attribute 1 Batch attribute 2	Define the Batch attribute 1 and 2
Price	Define the price: Only visible for material positions, not for assemblies. If you prefer manual price entry, active this in production types (can be determined depending on production types) . ***see*** Production type – manual entry of price. Price entry is only allowed for negative

© 2026 Boyum IT Solutions A/S

Field	Description

	BOM items. For assemblies (pos 2=0) are valued as default, which is set up in the Configuration wizard.
	
	Automatic pricing
	If no price is entered for negative BOM items they are valued as for negative material postions. ***see*** Material price list negative BOM
	
	Customizing:
	With beasscript the price can be manipulated: available functions:
	`workordermanagement:getprice_negativposition`
	The following variables are available:
	`e_type=receiptwo, e_belnr_id, e_belpos_id, e_pos_id, e_itemcode, e_towhscode, e_price`
	In variable `e_price` the price can be returned. This process cannot be cancelled.

Date of entry	Post-in date
Date of production	Production date
Shelf life	Shelf life for assembly positions: if not defined, the system calculates the shelf life automatically. ***See*** Item - Batch - Shelf Life in Days

- Right window

In the right window you can see all items, for which you defined the quantity

Field Descriptions

Field	Description
/	Delete current line

© 2026 Boyum IT Solutions A/S

Field	Description
Document	Work order document number
Pos 1	Work order position
Pos 2	If work order: 0 If Bill of Material: The BoM Position number
Item	The Item No.
I-Version	The Item Version
Warehouse	The defined Warehouse
Bin location	The defined Bin location
Batch	The defined Batch. If empty, the system defines this automatically.
Quantity / UoM	Receipt quantity and Warehouse unit
Close	If active, the system closes the position after the receipt document. This flag is editable (Window settings). Note: If you have more than one entry for the same document line, the system reads the closed information from the last entry.

Buttons

Button	Description
Pre-assign	Pre-assign all planned receipt quantities. **Limitation:** Not possible if warehouse is bin-managed. Only for normal items or Batch/Serial Items with automatic Batch number determination.
Apply	Take the current line and insert this in right window
Booking	Create the receipt document

8.2.2 Work orders list

Work orders

WO structure view

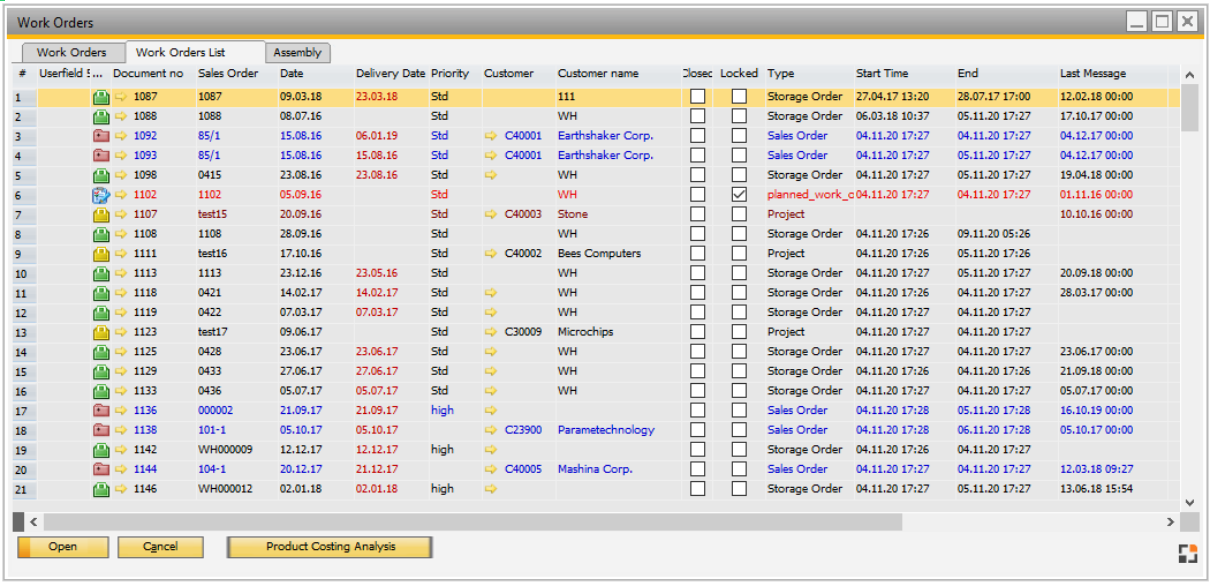
Work orders list

Work order document

Assemblies

© 2026 Boyum IT Solutions A/S

PATH: Production > Work Orders > "Work Orders List" tab.



Window fert_fthaupt_browse.psr

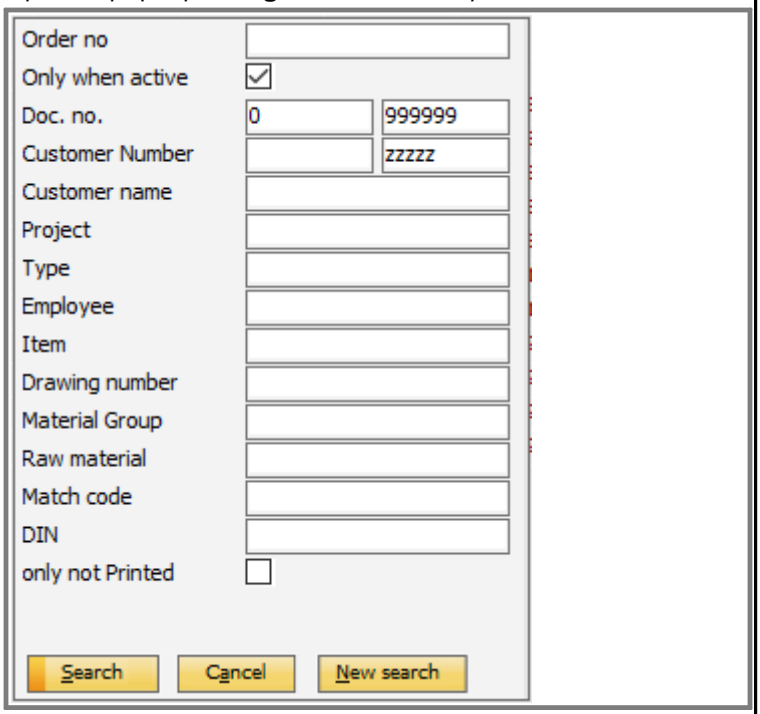
In contrast to the work order structure view the Work Orders list can be configured freely. Use windows settings to define the display order of selected columns. With the template system additional formats and graphics are adjustable.

Field	Meaning
...	Icon displaying the order type. ***See*** WO-structure
Document No	Document number.
Sales order	Number of the linked sales order.
Date	Date of the work order creation.
Delivery date	Planned delivery date. ***See*** Assembly - delivery date.
Customer	Customer ID
Customer name	Customer name
Closed	Check mark if item is closed.
Blocked	Check mark if item is blocked.
Type	Production type
Priority	Selected Priority for this order.
Start time	Planned time to start production.

© 2026 Boyum IT Solutions A/S

End time	Planned time to start production.
Last message	Last time receipt.
Actual time	Sum of already reported times for this order.
Planned time	Planned work time for this order.
Printed	Check mark, if printed.
Item	Item ID.
Project	Link to Project.

Functions

Field	Meaning
Material requirement	Right-click entry; opens Material requierement for this entry.
Open	Edit selected work order and its positions.
Add	Create a new work order.
Product Costing Analysis (in right-click menu: "Post calculation"	Opens the WO post-calculation window.
Search	Opens a pop-up dialog box to search by a number of values: 
Reports	Open the reports window.

© 2026 Boyum IT Solutions A/S

back to work order general

8.2.3 Assembly

Work orders

WO structure view

Work orders list

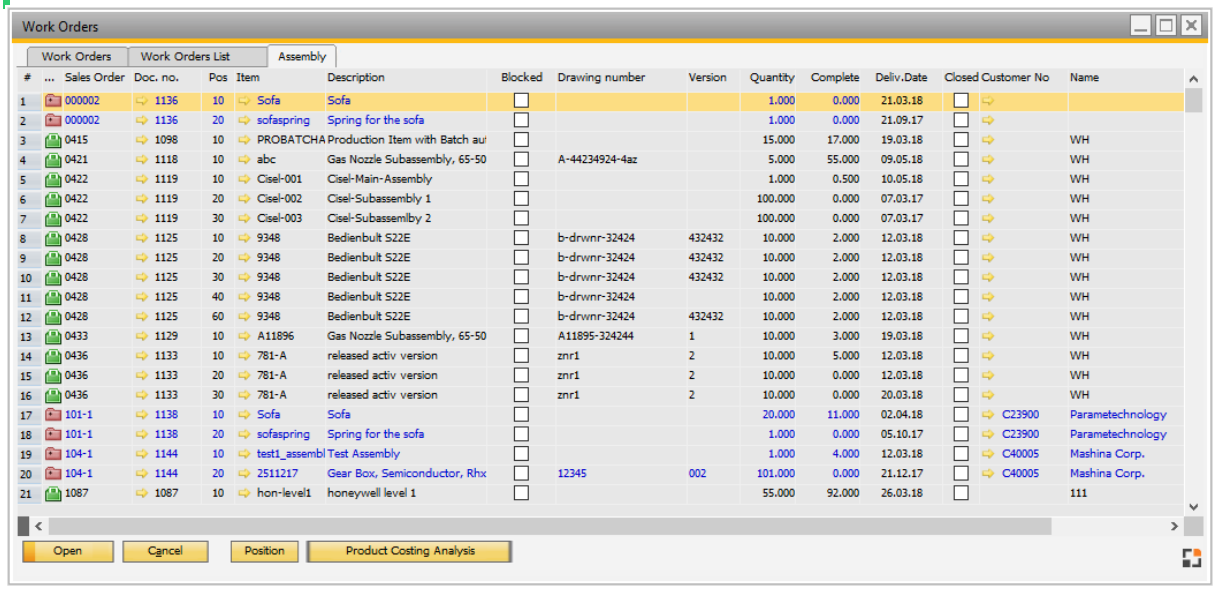
Work order document

Assemblies

This tab provides a view on assemblies. In contrast to the Work order structure view, the Assembly list can be configured freely. Use windows settings to define the display order of selected columns. With the template system, additional formats and graphics are adjustable.

Multiple selection is possible, but affects only the function "Material requirement". This means that material requirement is displayed for all selected work orders.

PATH: Production > Work Orders > "Assembly" tab.



Window fert_fthaupt_browse.psr

Click on a row to open the document position to edit.

Field	Meaning
Position	Unique position number.
Sales order	Number of the linked sales order.
Doc. no.	Work order number.
Pos	Position number in work order.

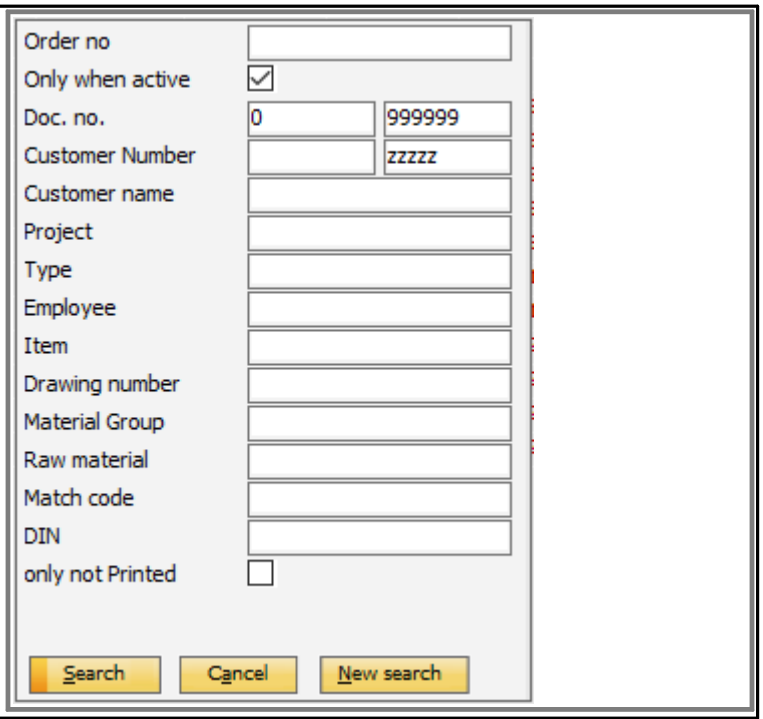
© 2026 Boyum IT Solutions A/S

Item	Item number of the assembly.
Description	Item description as per item master. Can be changed here.
Blocked	Field is active if item is blocked.
Drawing number	Drawing number.
Version	Version number of the item (10 digit text field only for information purpose).
Quantity	Quantity to be produced in consumption units of the assembly.
Complete	Completed.
Deliv.Date	Planned delivery date of the assembly. Date relates always to the upper level of the work order structure. ***See*** Assembly – Delivery date.
Closed	Production assembly closed. (in window settings "assembly closed")
Customer No	Customer number.
Name	Customer name.
Priority	Selected Priority for this assembly.

Functions

Function	Meaning
Open	Open work order item for editing.
Material requirement	Material requirement for all marked entries.
Product Costing Analysis (in right-click menu: "Post calculation"	Opens the WO post-calculation window.
Search	▫ Opens a pop-up dialog box to search by a number of values:

© 2026 Boyum IT Solutions A/S

	
Position	Opens the WO Position editing window.
Reports	Open the reports window.

back to work order general

8.2.4 Work order document

Work order structure view - click on a document line to edit a work order (upper level), and the the window "Work order document" opens. This document contains an overview on all assemblies which are to be produced. When editing a line, you can enter detailed information. The production document is also structured:

Work orders
- Work order document
  - Master data
  - Project
  - Attachments
  - Settings
  - Work order item
    - Edit work order item
      - BoM
      - Routing

© 2026 Boyum IT Solutions A/S

Quality control

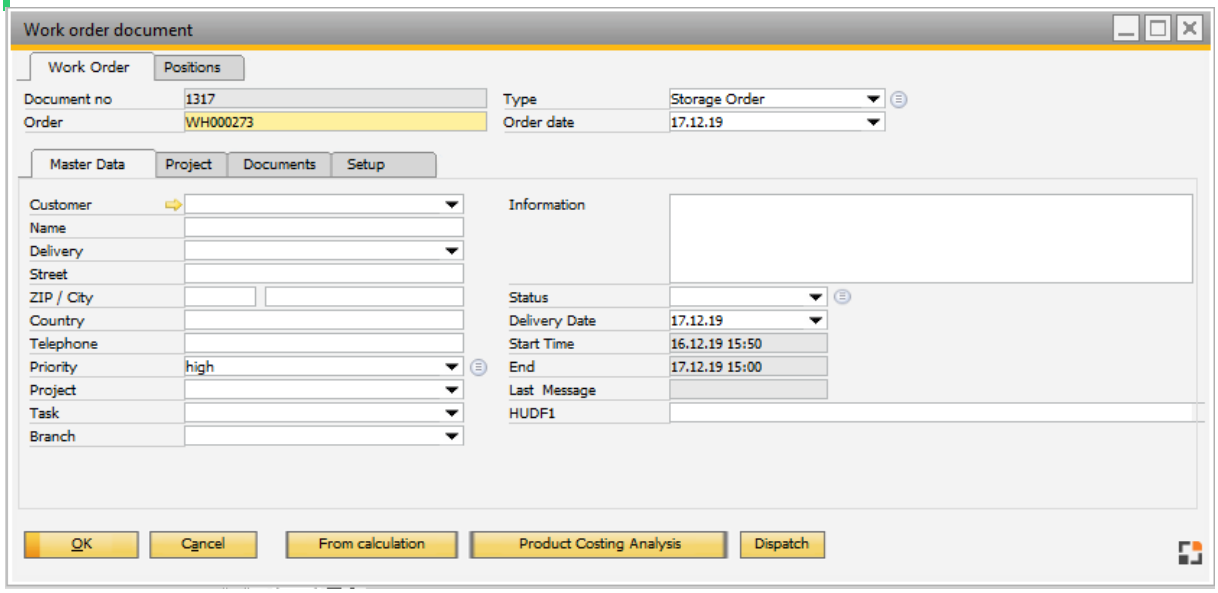
When clicking in the structure view on a document line or creating a new work order, the production document window opens.

Four different ways to create a work order in Beas:

Production document field description

back to work order (general)

PATH: Production > Work Orders > **Open** an entry.



Window fert_fthaupt_edit.psr

Upper tabs

Work order tab

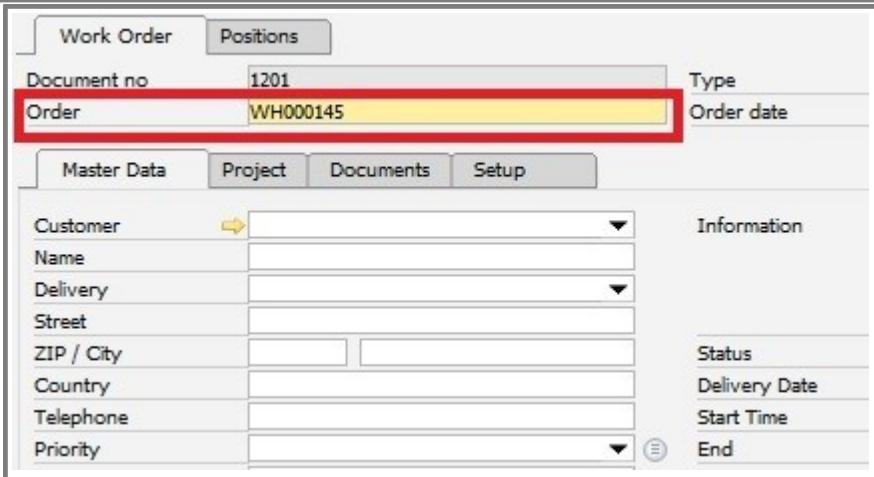
Field	Description
Document No.	Unique document number; assigned automatically. This consecutive number cannot be changed. The number to be assigned next can be defined via right-click – next – document number.

© 2026 Boyum IT Solutions A/S

	Note: The next number to be assigned can be defined via right-click – next document number.
	How to change the Work order Numbering
	
	Another number "CustOrder" is available. Its configuration can be set up in Configuration wizard.
	
	Manipulate document number
	It is not recommended to manipulate the document number. If this is required, please consider that it may have at most 6 digits to generate the bar code correctly.
	
	Possibilities of manipulation:
	The next consecutive number is always used. There is no separate counter. If using a SQL statement to change beas_fthaupt.belnr_id, the following document receives the following number.
	
	The number can also be changed by script. To do so, extend the file workordermanagement.src in project folder.
	
	Example script: counting in steps of 5
	
	`workordermanagement.src`
	`function createbelnrid`
	`select coalesce(max("BELNR_ID"),0) + 5 into e_belnr_id`
	`from "BEAS_FTHAUPT"`
	`end function`

Order No.	Sales order or work order number (editable, alphanumieric document number)

© 2026 Boyum IT Solutions A/S

	 *Window fert_fthaupt_edit.psr* In case of call up via customer order to work order, the Work order number is stored here. In case of manual creation, a Work order number is manually specified or a number is generated. The structure of the generated number can be set in the options. ***See*** Configuration wizard ***See*** Number creation
Type	Type of work order, such as manual customer order, make-to-stock, repair order, etc. Additional information on production types The production types are configured in **Configuration Wizard > Production > Master Data > Production Types**. ***See*** Production types The most important parameters can be specified here. These parameters are then transferred automatically to the work order when the production type is chosen. The production types can be processed using the orange arrow beside this field. Here, you can also store which production type should be used by default. Set up which type to be used as default Configuration wizard – Production – Create new.
Order Date	Document date or Valuation date of the work order. Used as default date for Post-calculation – Reference date.

© 2026 Boyum IT Solutions A/S

Tab Positions

Lower tabs

Project tab

Field	Meaning
Project manager 1	Selection field (names of users logged on).
Project manager 2	Selection field (names of users logged on).
Project status	Select from deposited status.
Info 1	Free text.
Info 2	Free text.
Time planned / actual	Free text.
Costs planned / actual	Free text.
Last calculation	Date / time.
Udf 1...4	4 additional fields can be activated.

Documents tab

Upload additional documents.

Setup tab

More functions

Function	Meaning
From Calculation	Use calculation. This can be used to generate a production document from Precalculation even if no master records are available. An existing calculation must be selected for this purpose. This function is only available when a new production document is generated.
Material Requirements	Opens material requirements list for this work order. Available via right-click menu.
Dispatch	Dispatch for capacity planning.

© 2026 Boyum IT Solutions A/S

	The work order is dispatched to the capacity planning and the times are reserved. Normally, this happens automatically. However, if the delivery date is changed retroactively, the start date can be calculated on the spot with this mechanism.
Close document	The work order is closed including all assemblies. This feature is only available if there are no open time receipts. Assemblies are treated depending on closing rules. ***See*** Configuration wizard.

Reopen document	Open a closed work order.
	Available only if the work order was closed and if you have editing rights for this work order.
	
	After a security query the work order is re-opened. Similarly, related assemblies can also be re-opened.
	
	User needs authorization "Production release closed/post" or Administrator rights.
	
	Note: After re-opening, you can book additional costs. It is not saved in which period the work order was closed. If you try to evaluate e.g. "only work orders open until date..." you may get incorrect results.
	
	Use customization to block this option:
	`windowevent reopenworkorder`
	`messagebox=error$You can't reopen the work order!`
	`return failure`
	`end event`

Next document number	Define the next document number. The number must be higher than the last one used. The setting affects the next created work order, regardless of how it is created.

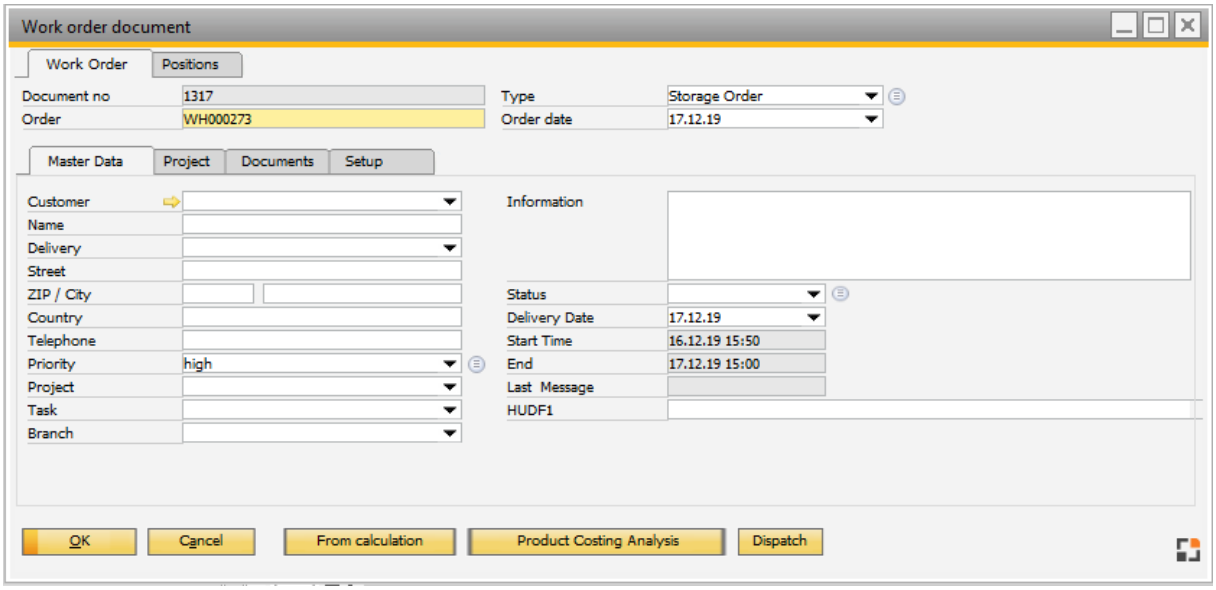
back to work order document (general)

8.2.4.1 WO document master data

Production > Work Orders > **Open** Work order document

© 2026 Boyum IT Solutions A/S

The **Master Data** tab contains the basic information for the work order, like customer information, priority, linking to projects, observations, and its scheduling dates.



Window fert_fthaupt_edit.psr

Field	Description
Customer	Customer assigned to the work order All customer Work orders should either be created through Sales order to production or through the MRP run. This field is automatically filled if the work order is created from a sales order. If a work order is created without a customer reference, the value as per **Configuration Wizard > Production > Create > Default Name** is entered here. Note: The customer can be a vendor or Lead, as well.
Name, Street .. Country	Customer address taken from master data.
Priority	Priority of the work order. It has precedence over a priority set in the Item Master. Sorting and filtering according to priority can be done in the **Assemblies** tab. For more information, ***see*** Priorities that can be set in the Configuration Wizard.
Project	Define which project the WO belongs to Only active, valid and not blocked projects can be selected. **Note**: If other project references are entered on an assembly level, they have higher priority.

© 2026 Boyum IT Solutions A/S

Task	Define with which project task the WO is to be linked to.
Branch	If branch solution is used, define which branch the order belongs to **Note**: A work order can only be assigned to one branch and all warehouses used in the production process have to be assigned to the same branch. This is checked by the program.

Information	Text information.
Status	Manually selectable status of the work order Status is for information purposes only, and is displayed in several lists. Use the icon on the right to manage statuses. ***See*** Status. *(beas9.0-004-042-000)*
Delivery Date	Delivery date of the work order: If the work order is created from a sales order, a certain number of work days are subtracted from the delivery date of the work order, according to the settings, and the date is entered as the delivery date. A security buffer can be defined in **Configuration Wizard à Materials Management > MRP Wizard > Calculation > Average Lead Time**. For manual work orders, the delivery date must be entered manually.
Start Time	If the work order is scheduled, the calculated start date is displayed there. A change in the start time has no influence on the calculation. If the work order is not scheduled automatically, the planned start time can be entered here.
End time	If a work order is scheduled, the calculated completion time is displayed there. A change in the time has no effect on the calculation. If the work order date is not scheduled automatically, the planned end time can be entered here.
Last message	Displays the date when the last Time Receipt was created using the Field Data Capture function.
HUDF1 ...4	Four additional, optional fields can be defined in **Configuration Wizard > Production > Display > Work Order**.

Buttons:

Button	Description

© 2026 Boyum IT Solutions A/S

Close Document	If active, the work order is closed. **WMS Integration:** Beas considers all supported WMS locks (Batch, LUID, Detail) and can delete existing locks when closing a work order.
From calculation	Open the list of the available precalculation.
Dispatch	Dispatch the order and the required resources.
Product Costing Analysis	Opens the post-calculation window.

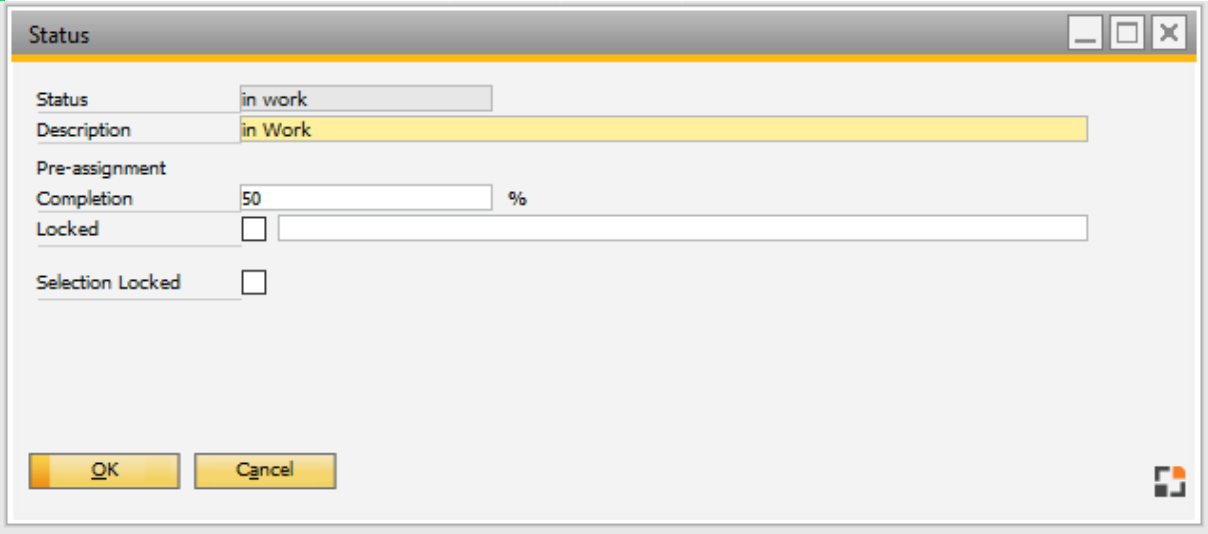
8.2.4.1.1 Status

In this window, status types can be defined and saved to be used in QC, Project management and Production.

A status has an ID; you can add a description and Completion percentage value, and define it as "Locked" with a reason in a freely editable field.
Sorting Save: Statuses can be sorted via Drag&Drop. Click this button to save the current sorting.
Statuses are only displayed, there is no function.

Example:

PATH: Production > Project > Project/Tasks tab > **Open** a task > select .



Window basis_prjstatus_edit.psr

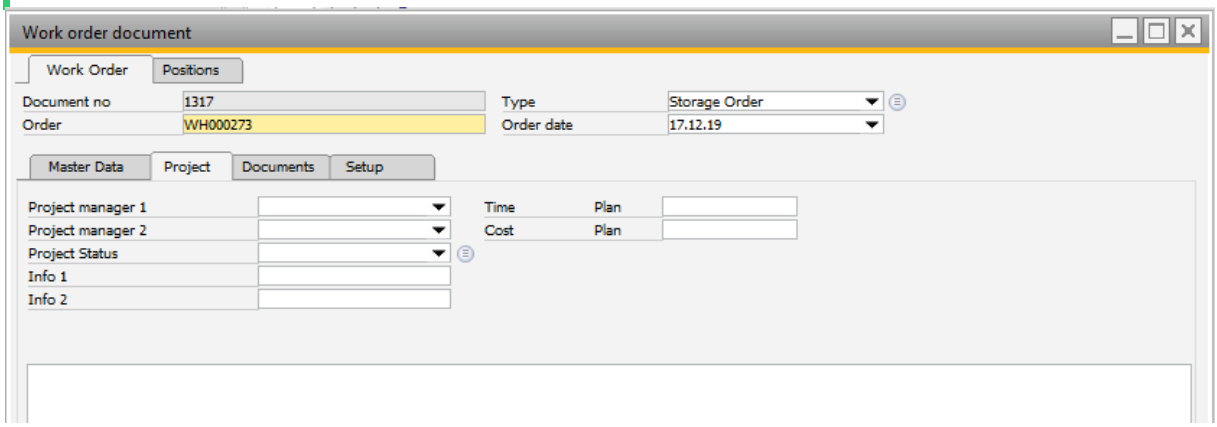
8.2.4.2 WO document project

The **Project** tab should be used only if not working with the Beas project management, and is intended for managing very small and simple projects, consisting of only one work order. This is not connected with the Beas project management module.

© 2026 Boyum IT Solutions A/S

As an alternative, you can use the milestone feature or event system. ***See*** Milestones, Events.

Production > Work Orders > **Open** Work order document > Project tab.



Window fert_fthaupt_edit.psr

Field	Description
Project manager 1,2	Project managers assigned to the project work orders. The field lists all SAP Business One users for selection. If a milestone event is inserted, the project manager can be selected as recipient. The actual project manager is determined from this field.
Project status	Status of the project. This field is for information only, and all status changes must be done by the users (Beas does not change the status automatically).
Info 1,2	Free text fields.
Times	Enter a default time for this project in days.
Costs	Enter a budget for this project.

See buttons descriptions here.

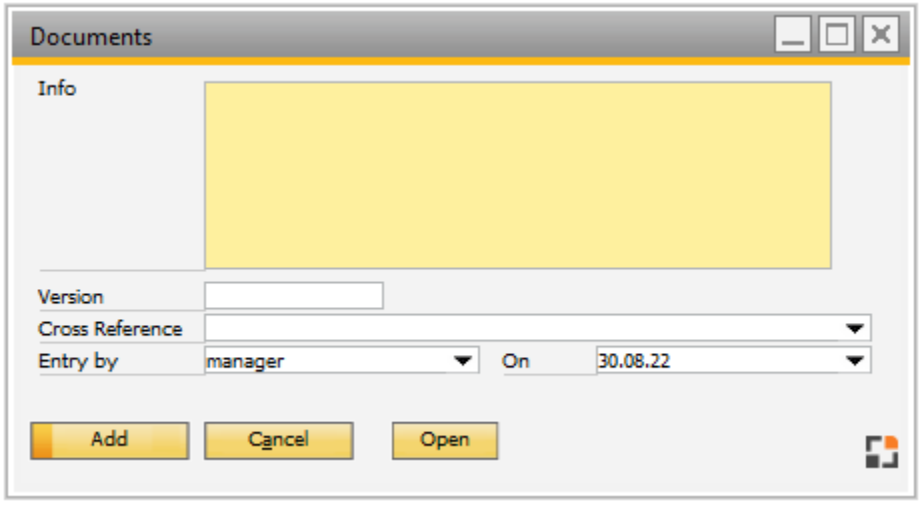
8.2.4.3 WO document attachments

It is possible to insert attachments to the work order.

Production > Work Orders > **Open** Work order document > Documents tab.

Click the **Open** button to open the selected line or click the **New** button, to add a new document:

© 2026 Boyum IT Solutions A/S



Window system_document_edit.psr

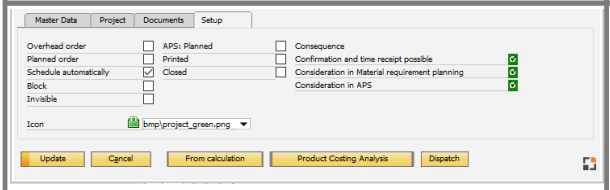
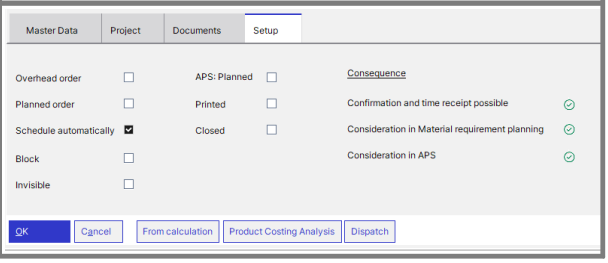
Field	Description
Info	Free text.
Version	Free text.
Cross Reference	Path and document name. Browse for a file using the drop-down arrow.
Available	Active: Reference is valid, the document has been found. Inactive: Reference is not valid, the document was not found, or the user has no access to the folder.
Entry by	Name of the user.
Entry on	Date of the entry.

8.2.4.4 WO document settings

This tab contains global settings for work orders. The fields in this tab are filled with standard values from the type assigned to the work order, but they can be changed individually for each work order. Changes made in the settings can have consequences when creating time receipts, in MRP and APS. Beas shows these effects on the right side with red or green flags.

Production > Work Orders > **Open** Work order document > Setup tab.

© 2026 Boyum IT Solutions A/S

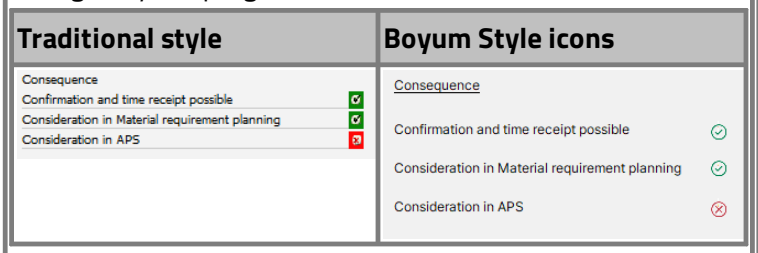
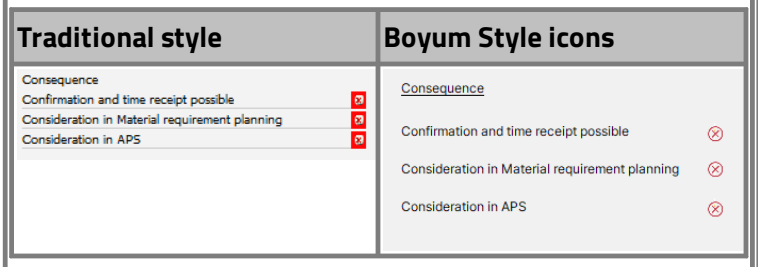
Traditional style	Boyum Style
	

Window system_document_edit.psr

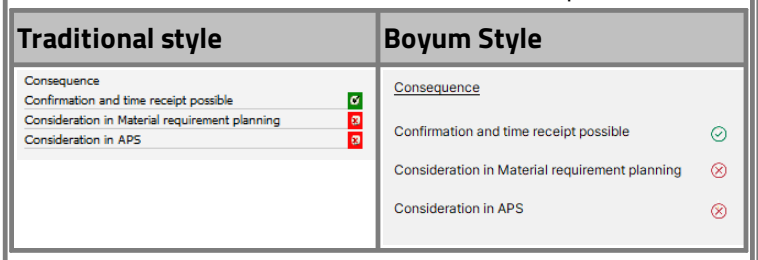
Field descriptions

Field	Description
Overhead order	Define WO as overhead order. If active, the work order is an internal order for monitoring overhead costs. Only overheads such as machinery repair, cleaning work, training measures, etc. are recorded here. This cannot be closed using the time report. Various overhead evaluations are available. ***See***: Overhead costs. *Field: BEAS_FTHAUPT.GEMEINKOSTEN (1/0)*
Planned order	WO is only planned. If active, the work order is blocked (not released for production), but still valid for material and capacity planning. ***See*** Production types. ***Workflow – Example "planned":*** Create WO – unplanned, schedule backwards. APS – detailed planning is running and is set to planned. Planned WO cannot be changed in APS. Only a "Catch up"– calculation is allowed. ***See*** Production types. *Field: BEAS_FTHAUPT.PLANNINGSTATUS*
Schedule automatically	Define if the WO must be scheduled automatically. **Active**: The work order is scheduled automatically and can be planned in APS. This option is not recommended for overhead and project orders.

© 2026 Boyum IT Solutions A/S

	Deactivated: WO is not scheduled and cannot be planned in APS. Date information can be inserted manually and is not deleted or changed by the program.  *Field: BEAS_FTHAUPT.TIMECALCULATE (1/0)*
Block	Work order is blocked. **If this is activated:** All time reservations are removed. Material postings, order time receipts, material plannings, reservations, etc. are not possible. The WO does not appear in the order MRP.  **Exception:** This is a planned production order. In this case, it can be included in APS and MRP. **Note**: Already existing order MRP is not changed. Existing reservations cannot be deleted. **Deactivated:** WO is released. Time reservations are not recreated automatically. A rescheduling is necessary.

© 2026 Boyum IT Solutions A/S

	Field: BEAS_FTHAUPT.SPERRUNG (J/N)
Invisible	Visibility of the Work order. If active, the order is hidden from the MRP, APS and work order list, but times and material can still be reported.  *Field: BEAS_FTHAUPT.UNVISIBLE (1/0)*
Icon	The icon that is displayed in the WO list.
Color	The color of the WO in the WO list.

APS: planned	Button: Work order was planned via APS. Indicator to show if the work order has been planned by APS or not. This field cannot be changed directly. Different work flows can be created using APS. **ATTENTION**: Only the WOs that have this flag checked are available for login in the Terminal. For this you must activate the parameter "Work order must be set to planned" in the FDC section of the Configuration Wizard. If that parameter is inactive, the "APS: planned" WO document setting has no influence on the login process. Different work flows can be created using filters in the APS Scenario and in the APS calculation types in depending on the setting in the configuration wizard. *Field: BEAS_FTHAUPT.APSSTATUS*
Printed	Note if the Work order has already been printed. If activated, the work order is marked as printed. If you mark this in this window manually, the system marks all not printed sub-positions as printed, as well. *Beas 2020.02* If you disable the Print flag, the system does not disable this on position level.

© 2026 Boyum IT Solutions A/S

APS: planned	Button: Work order was planned via APS. Indicator to show if the work order has been planned by APS or not. This field cannot be changed directly. Different work flows can be created using APS. **ATTENTION**: Only the WOs that have this flag checked are available for login in the Terminal. For this you must activate the parameter "Work order must be set to planned" in the FDC section of the Configuration Wizard. If that parameter is inactive, the "APS: planned" WO document setting has no influence on the login process. Different work flows can be created using filters in the APS Scenario and in the APS calculation types in depending on the setting in the configuration wizard. *Field: BEAS_FTHAUPT.APSSTATUS*
	If all sub positions are printed, the system define the complete work order as printed
Closed	Note if the Work order has already been closed. *Field: BEAS_FTHAUPT.ABGKZ (J/N)*

Default settings are taken from Production Types.

8.2.4.5 WO document positions

Overview on all positions of this work order. The list is sorted by structure, in the same way as work order structure view. Window settings and Templates are supported.
For some fields, editing can be activated. There is no automatic scheduling when dates are changed.
For field descriptions ***see*** Edit WO position.

Functions

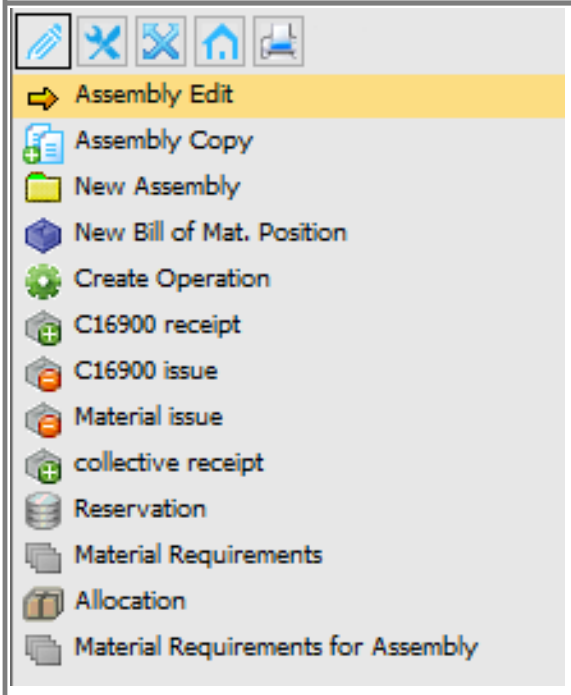
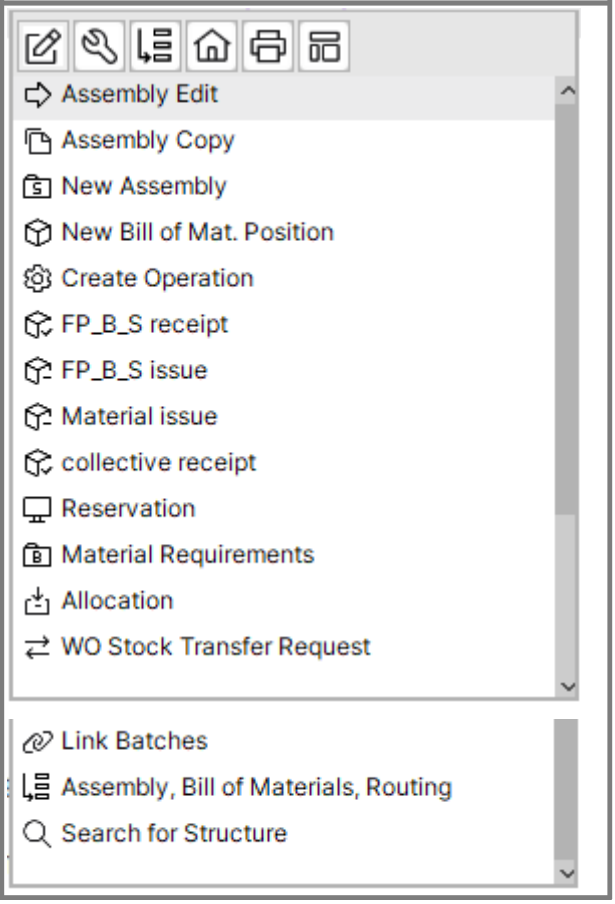
Field	Meaning
Open	Open work order item.
Add	Create new work order item.
Remove	Delete all marked items or the currently selected one. Deletion is possible only if there are no postings or time receipts.
Post-calculation	Post-calculation for the currently selected item.

© 2026 Boyum IT Solutions A/S

	(No multiple selection)
Material requirement	Material requirement for all marked rows or the currently selected one.

The following additional columns can be selected via window settings.

Right-click basic functions for open and closed work order positions

Traditional style	Boyum Style
	

Functions

Option	Description
Assembly Edit	Opens the work order position to edit.
Assembly Copy	Copy the work order position to the clipboard. After selecting Assembly Copy, the Assembly: Insert function is available when right-clicking on work orders and work order positions. The Assembly: Insert function creates the copied assembly inside the selected document.
New Assembly	Opens a Work order position window to create a new work order position.

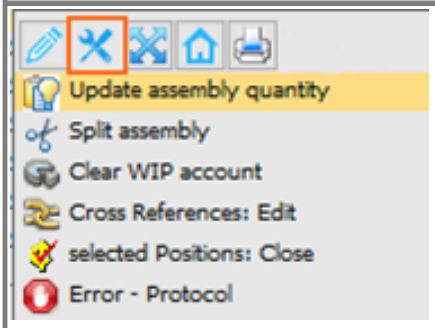
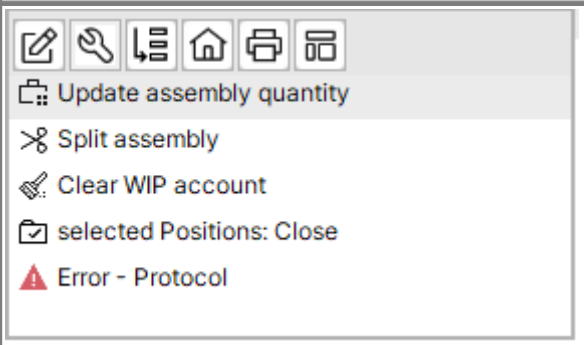
© 2026 Boyum IT Solutions A/S

Option	Description
New Bill of Mat. Position	Opens a Bill of Materials window to create a new Bill of materials position for the selected work order position.
Bill of Materials Item XX Delete	If there are documents (e.g. Reservation) linked to the selected BoM position, you can only delete the BoM position if you delete the linked documents first. In this case, the system prompts: *'To remove the selected Bill of Materials position, you must first delete all documents linked to it.'* in a red error message in the bottom notification bar.
Create Operation	Opens the Operation window to create a new routing position for the selected work order position.
Product Receipt	Opens the Receipt window to create a production receipt for the item that is produced in the work order position.
Product Issue	Opens the Issue window to create a material issue for the item that is produced in the work order position.
Material Issue	Opens the Issue window to create materials issues for all the components related to the Bill of materials of the work order position.
Collective Receipt	Opens the Collective Receipt window to create multiple production receipts for the selected work order position.
Reservation	Opens the Reservation window to create materials reservations for all the components related to the Bill of materials of the work order position.
Material Requirements	Opens the Material Requirements report for the selected work order position.
Allocation	Opens the Allocation window to create materials allocations for all the components related to the Bill of materials of the work order position.
Material Requirements for Assembly	Opens the Material Requirements for Assembly window and lists all assemblies.
Invent. History	Opens the Inventory History report for the selected work order position.
Assembly, Bill of Materials, Routing	Expands the selected work order position to show Bill of materials, routing for the work order position and all its sub-assemblies.
Search for Structure	Opens the Search for Structure window that allows searching for a specific component in the selected work order positions and their sub-assemblies. If the component is found, the containing assembly position is expanded, and its line is highlighted.

© 2026 Boyum IT Solutions A/S

Option	Description
Reservation	Opens the Reservation window, but creating a new reservation is not allowed when the work order position is closed.
Link Batches	Opens the Link Serial Numbers / Batches window. This function allows linking the consumed batches or serial numbers of raw materials to the produced batches or serial numbers to enhance traceability functions.
Assembly, Bill of Materials, Routing	Expands the selected work order position to show Bill of materials, routing for the work order position and all its sub-assemblies.
Search for Structure	Opens the Search for Structure window that allows searching for a specific component in the selected work order positions and their sub-assemblies. If the component is found, the containing assembly position is expanded, and its line is highlighted.

Right-click extended functions work order positions

Traditional style	Boyum Style
	

Option	Description
Update Assembly Quantity	Allows changing the quantity of the assembly and then recalculates the corresponding quantity for the sub-assembly. This function only recalculates the first sub-assembly, therefore it should not be used when a work order position has more than one linked sub-assembly.
Split Assembly	Splits the selected work order position into two assembly positions but does not split the sub-assemblies related to the selected work order position.

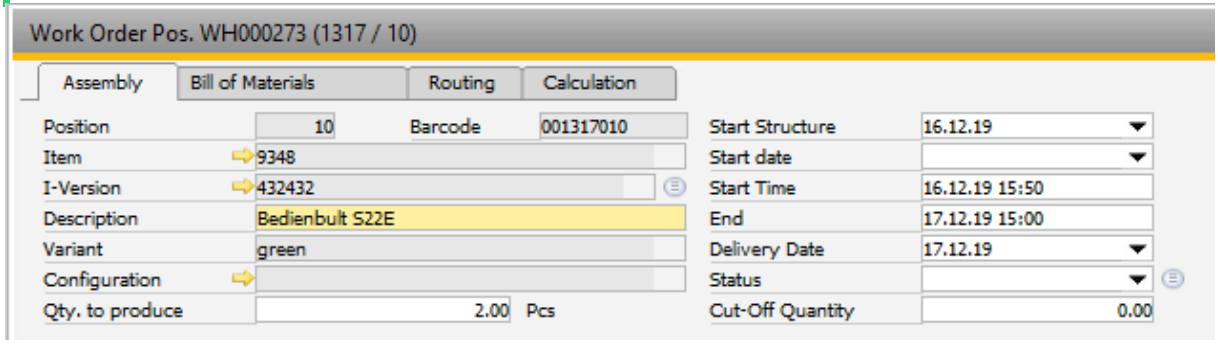
© 2026 Boyum IT Solutions A/S

Option	Description
	When performing the split of the assembly, all existing material reservations are removed, but the existing serial number reservations are maintained and split among the assemblies. A window opens where the serial number reservations can be assigned to each assembly. The split process does not consider the Lot Size field when creating the new work order positions.
Clear WIP Account	Creates a journal entry to clear the existing balance of the work in progress account for the selected work order position.
Cross References: Edit	Opens the Cross Reference - Edit window. Here you can edit the documents linked to the selected work order position.
Selected Positions: Close	Closes the selected work order position.
Error - Protocol	Displays all the protocols and error messages for the selected work orders. If the work order has an error message, the Status Error Delete option is also available. The Status Error Delete option deletes all error messages for the work order.

8.2.4.5.1 Edit Work Order Position

The **Positions** tab contains all the items that are going to be produced in the work order. In the production position, the data of the assembly to be manufactured is defined. Window settings and Templates are supported.

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position.



Window fert_ftpos_edit.psr

- Notes on sorting

© 2026 Boyum IT Solutions A/S

The list is loaded completely and is sorted by structure by default. Sorting by SQL (e.g. Template settings) is ignored.
Only the DataWindow sorting (e.g.: via right-click on header) is allowed.
Sorting by structure is saved in column "Structure Pos".

Field	Description

Position	Unique position number.
	It can only be changed when the position is created. Beginning and end of the range can be set up in the Configuration Wizard.
	Customization
	The definition of the position number can be manipulated using the following function:
	`workordermanagement.precreatebelpos()`
	Example:
	`workordermanagement.src (in Project folder)`
	`// For Items Axxx use Position 100, 101...`
	`// for all other: 200,201...`
	`function precreatebelpos`
	`// aviable:`
	`// e_belnr_id, e_belpos_id, e_itemcode, e_project`
	`if <e_itemcode,left 1> = A then`
	`  setvar=ll_group=100`
	`else`
	`  setvar=ll_group=200`
	`end if`
	`select <ll_group> + ifnull(max("POS_ID"),0)+1 &`
	`  into e_pos_id`
	`  FROM "BEAS_FTPOS" &`
	`  where "ItemCode"=<e_itemcode,dbstring>`
	`end`
	field: BEAS_FTPOS.BELPOS_ID

Barcode	Unique bar code for this position. This bar code is printed on documents and it can be entered in various windows for selecting the production assembly. The bar code is automatically generated. Configuration: xxxxxxyyy x=Document number, 6 digits y=Position number, 3 digits

© 2026 Boyum IT Solutions A/S

	If 6 digits for a document number or 3 digits for position number are not sufficient, counting is continued alphanumerically.
	
	Example for position from 999:
	998, 999, A00, A01, A02 .. A09, A0A ..
	
	Bar code for document 28, Position 1050 would be **000028A1E**
	
	Example document number from 999999:
	999999, A00000, A00001, ... A00009, A0000A ..
	
	The bar code for document 20500100 position 2050 would be **ABLYDGAT6**
	
	The highest possible document number is 2117316159, the highest possible position number: 34695.
	
	Bar code determination
	The Bar code can be determined as follows using Beas script:
	`belnr_id` = document number *(BEAS_FTPOS.BELNR_ID)*
	`belpos_id` = work order item *(BEAS_FTPOS.BEPOS_ID)*
	
	`// generate Barcode`
	`object=ue_fert_tools=barcode=<belnr_id>=<belpos_id>`
	`// show result (variable e_barcode)`
	`messagebox=info$$barcode = <e_barcode>`
	field: BEAS_FTPOS.BARCODE

Item	Item number of the assembly. The item that is produced in the production position. This entry can no longer be changed after saving. All items with procurement method Make can be selected. Release Item needs to be released for production. If the item is not released, the following error message appears: *prdrel40$Item is not released for production.* ***See*** Item master - Release for production

© 2026 Boyum IT Solutions A/S

	Standard costs method If standard costs method is enabled, a current and valid batch calculation is required. If there is no batch calculation of that type or if it is outdated, the following error message appears: *stdpricek423984$Standard cost valuation: the last item valuation is too old, does not exist or there is no calculation schema for it. Work order <belnr_id>, item <itemcode> cannot be created.* ***See:*** Standard costs method Assembly valuation – Standard costs method Concept: assembly valuation Edit Batch-calculation – standard costs
I-Version	Version number of the item to be used. When creating a position, the version stored in Item master is used. If it is changed, the item designation, drawing number and, if necessary, BoM and routing are refreshed.
Description	Item designation as per item master data record. This can be changed. This is the Item Name from the item master data If you defined an item version and an item name in the item version, then the name of the item version is shown. If you choose a configuration, Beas executes formulas or inserts a description from the configuration. ***See*** Configuration
Variant	Variant designation (A-Z) The name of the variant, which can be defined in the item master, is displayed. BoM and routing are dependent on the variant. This is not changeable. If a variant is included automatically in extended warehouse settings, ***see*** Edit warehouse master data, Variants.
Configuration	Product Configuration Id ID of the product configuration to produce. It is possible to choose one of the existing configurations with the Complete status, if the

© 2026 Boyum IT Solutions A/S

	item has a product configurator definition. All External Configurations which were created for the currently selected item are also displayed. For more information, ***see*** Product configurator. **Note**: All Configurations created with Beas version 9.3 PL 1 or older have the status "Complete" at all times. If the product configurator creates the item name automatically, Beas uses the generated item name from the configuration. *(beas 9.3 PL 2)*
Qty. to produce	The quantity to be produced in Production UoM of the assembly **Important:** If the assembly quantity is changed, quantities in BoM are recalculated automatically, but the affected sub-assemblies are not. To update these use **Work order structure > right-click > second tab > update assembly quantity**. If lot sizes are considered in the sub-structure, adapting the total quantity of all sub-structures is only possible when using the WO refresh function. **Important:** It may be necessary to check reservations as there is no automatic check.
Cut-off quantity	Additional demand according to scrap factor and offcut information in the item master data. ***See*** Cut-off > consider cut-off quantity option.
Start structure	Production start date of the structure This may differ from the start date of the assembly in case of a multilevel work order, as the sub-assemblies are produced before the main assembly. This field contains the start date of the sub-assembly which must be produced first.
Start date	Scheduled start date of the assembly. This can be used to define the planned start date (top assembly only), which is considered by forward scheduling in the APS.
Start Time	Start date and time of the currently selected assembly. Calculated automatically by forward or backward scheduling.

© 2026 Boyum IT Solutions A/S

End time	Automatically calculated completion date of the currently selected assembly.
Delivery date	Planned delivery date of the assembly This date refers to the top level of the work order structure. For sub-assemblies, this date does not apply, as the calculated start or end date is used. If a work order is created from a sales order, the delivery date is set to: delivery date from sales order minus the average delivery time parameter. Serves as reference for backward scheduling. ***See*** Configuration wizard > Materials management > Computation > Average delivery time If this date is changed, and capacity planning is active, the work order is rescheduled, using the last used calculation method. Notes on settings in work order In **work order document > master data** set up: • Disable blocked • Enable automatic scheduling • Disable planned • Enable capacity planning ***See*** Backward scheduling Work order document > Master data Configuration wizard > Production > Capacity planning
Status	Status of the assembly. This field is for information only. Status changes must be done by the users, Beas does not change the status automatically.
Last Message	Information on when the last FDC report was carried out.

Function	Description

© 2026 Boyum IT Solutions A/S

Add	Create new assembly position If a new production assembly is created, it is broken down when saved. For additional information ***see*** Item breakdown.
Remove	Delete assembly Delete the assembly and their sub-assemblies including BoM and routing information. Only those BoM items and routing positions are deleted that are not linked to other documents (Material postings, Order time receipts etc.) If all entries cannot be deleted, the assembly is closed. If the assembly contains sub-assemblies, they are closed as well. If one sub-assembly may not be closed, the superordinate assembly is not deleted, otherwise it would not be possible to display it in the structure view. Assemblies which may not be deleted are closed after all BoM items and routings without links have been deleted. The WIP-account is balanced.
Reports	Opens the reports (macro menu).
Preceding entry	Displays the previous entry.
>>	Displays to next entry.
Update assembly quantity	If the assembly contains sub-assemblies and the order quantity was changed, the requirement of the sub-assemblies are changed. This function calculates the requirement of the sub-assemblies and updates the values. Details If the quantity of a BoM item is changed, the quantity of the dependent assemblies and sub-assemblies is not adjusted. This is important, because in case of a storage related work order the quantity must not be necessarily equal. If the number is to be matched, this can be done automatically using this button. **Note**: If lot sizes are considered in sub-assemblies, this function is not executable. In this case WO refresh is to be used.
Close Document	Close assembly position Only possible if the position is not closed yet, and if there are no open time receipts. With continuous stock enabled, further journal

© 2026 Boyum IT Solutions A/S

	entries may be created. ***See*** WIP functions. If the assembly has sub-assemblies, you can set up whether these are closed as well. ***See*** Configuration wizard. A work order position can be re-opened at any time. ***See*** re-open WO position
Re-open	Open a closed WO position Only visible if the WO position has been closed before. A work order position can be re-opened any time. If then, costs arise and the order is closed again, all costs are posted correctly to the WIP account. **Note**: Working with **Post-calculation > Reference date function**, a work order should not be re-opened, as then the calculation of the reference day would not be possible.
Structure refresh	Refresh work order based on item master data
Post-calculation / Product Costing analysis	A post-calculation on the current assembly can be created.
Journal of entries	Opens the transaction journal
Inventory history	Opens the inventory history of the assembly.
Cross reference	Links between a work order item and an origin document (Sales order, advance invoice, production BoM item) Note: Only displays information for "stock related" items because this sort of information is related to reservations. In case of non-stock items, no cross-reference is displayed.
Variable	If variables were created manually for variant production, they are saved in table `beas_ftcaft_varentry`. You can edit or delete the variables. If the work order is updated, existing variables are used, a new entry is not necessary. To enter new variables, delete the old ones first.
Protocol	Opens protocol.

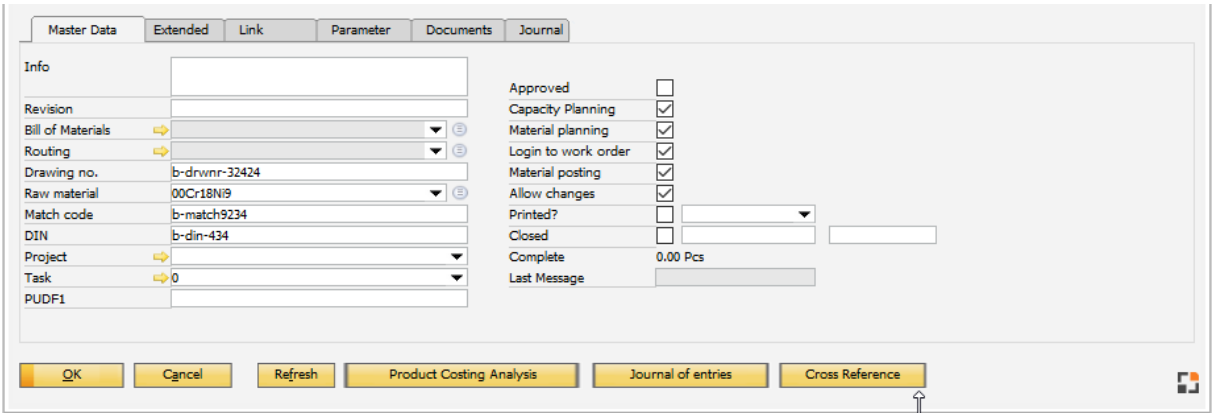
© 2026 Boyum IT Solutions A/S

Formulas recalculate	If variant formulas are stored, these can be recalculated This function is used, for example, after formulas have been updated. Fields like lead time can be recalculated. Restrictions: Only those formulas and tables are affected which are stored directly behind a field. Scripts are not executed. The structure cannot be manipulated, e.g. by exchanging a material item. BoM items cannot be activated or deactivated. The following cannot be calculated: • Designation or description of the operation • Resources • BoM – Material requirement • Material-dependent breakdown No rescheduling, re-dispatching or correction of reserved times is performed. Variant production If variant production is used, parameters can be queried when an item or work order is created. Variants are saved and used in case of an update, they do not need to be entered again. (Table `beas_ftcaft_varentry`). For more information, ***see*** the Variable function. In work order list several orders can be marked and calculated simultaneously. ***See*** WO structure .

8.2.4.5.1.1 Master Data tab

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Assembly" tab > "Master Data" tab.

© 2026 Boyum IT Solutions A/S



Window fert_ftpos_edit.psr

Field	Description
Info	General information. Free text.
Revision	Revision number of the selected item version, copied from item version control, if activated. This is for information only.
BoM	The BoM to use for assembly breakdown This field is only visible if the item version control is activated. Select the BoM to be inserted in the work order. This is defined in Item or Item version. If the field is empty, no BoM is added. Depending on the settings, the routing is determined in the BoM. Note: SAP BoM is ignored at Beas work order creation. *(BEAS_FTPOS.StlItemCode)*
Routing	The routing to use This field is only visible if the item version control is activated and if the routing is not firmly linked to the BoM, but may be selected independently of the BoM. ***See*** Configuration wizard. The selected routing is used in the work order. This is defined in Item or Item version.

© 2026 Boyum IT Solutions A/S

	Depending on the settings, the routing is determined in the BoM. *(BEAS_FTPOS.RoutingId)*
Drawing No.	Drawing number from the item master data.
Raw Material	Raw material from the item master data.
Match Code	Match code from the item master data.
DIN	DIN from the item master data.
Unlock Manually	Only available when created in the function: If this switch is activated, the user can determine which mill of material positions and routing positions should be added to the work order. For this purpose, all positions are shown in advance and you can define which positions should be used for this using a check mark.
Printed?	The check mark and the date is set if the WO is to be printed. This can also be done manually. In work order structure view you can print a work order position. This defines the work order position as "printed". Here you can activate or disable the printed flag manually. If all positions are printed, the system activates the printed flag on work order level, as well. If you disable the printed flag on work order position level, the system disables the printed flag on work order level similarly. *Beas 2020.02*
Closed	Check mark is active if the WO position is closed. The position can be closed using the **Close** button and can be reopened with the **Reopen** button.
Complete	Number of assemblies that were reported as finished. The number of entries plus the manual assembly yield is counted. It is also possible to issue manual "Finished" messages. Use the input field beside the finished quantity to do this. The field is

© 2026 Boyum IT Solutions A/S

	only visible if the option **manually input of completion** has been activated in **Configuration Wizard > Production > Display > Position**. Time receipts of non storage related assemblies, which do not cause a material posting are counted in this field.
Project	Reference to a project (**SAP Administration > Definition > Financial > Project**).

Release

At assembly level, release (set check mark) or blocking can be managed (remove check mark). By default, everything is enabled.

You can control these switches in Item version > Status.

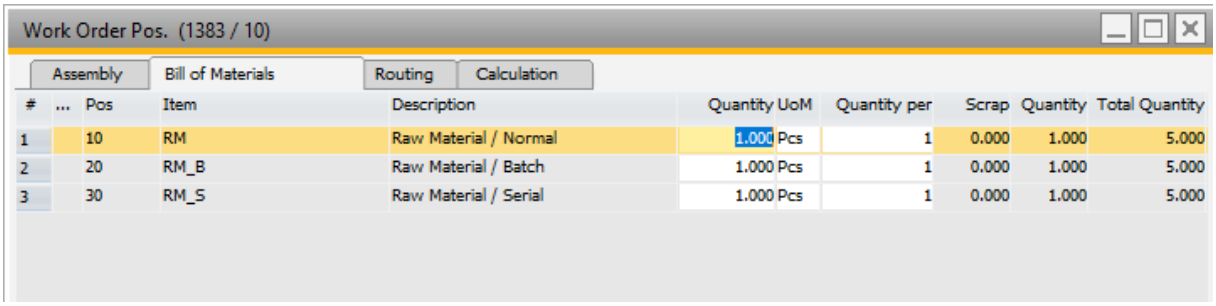
Attention: The following authorization is necessary: Production Release.

Field	Description
Approved	Work order approved? This information is displayed in MRP and in other lists. It set automatically, with the respective settings in Configuration wizard. It can be used for release procedures.
Capacity planning	Active : Capacity planning allowed.
Material planning	Active : Material planning allowed.
Login to work order	Active : Login to work order allowed.
Material posting	Active : Material posting allowed.
Allow changes	Defines if the changes in BoM and routing are allowed. Active: BoM and routing can be changed Inactive: BoM and routing cannot be changed
Printed?	Shows whether the work order position has been printed, as well as the printing date. This field can be changed if needed.
Closed	Set a check mark and chose a date (calendar in drop down field).
Completed	Reported number of completed assemblies.

© 2026 Boyum IT Solutions A/S

8.2.4.5.1.2 Bill of Materials tab

Display all Bill of Materials positions of the current Work order Position.



Window fert_ftstlpos_browse.psr

Window Settings and Templates supported.

It is possible to change a number of properties directly in this window. Activate the Editable fields in Window settings.

Changes in Bill of materials for this work order do not change master data of the assembly.

If the work order position is closed, *Allow changes* is disabled, or the authorization level is not sufficient, all editing functions are disabled.

- Sorting

The position is alphanumeric information and does not define the sorting.

A sorting can be changed in the following way:

1.Click on the field position and hold the mouse button. A right hand shaped cursor appears.

Note: The selected field may not have the focus.

2. Move the cursor with pressed mouse button to the desired row.

3. Release the mouse button.

The row will be moved to the new row position accordingly.

Note: The position number will not be renumbered automatically. This can be executed via right-click > renumber.

For more information on Position Number, Sorting and Field Description: ***See*** Field description "Position"

Field information: ***See*** Bill of Materials Detail

Functions

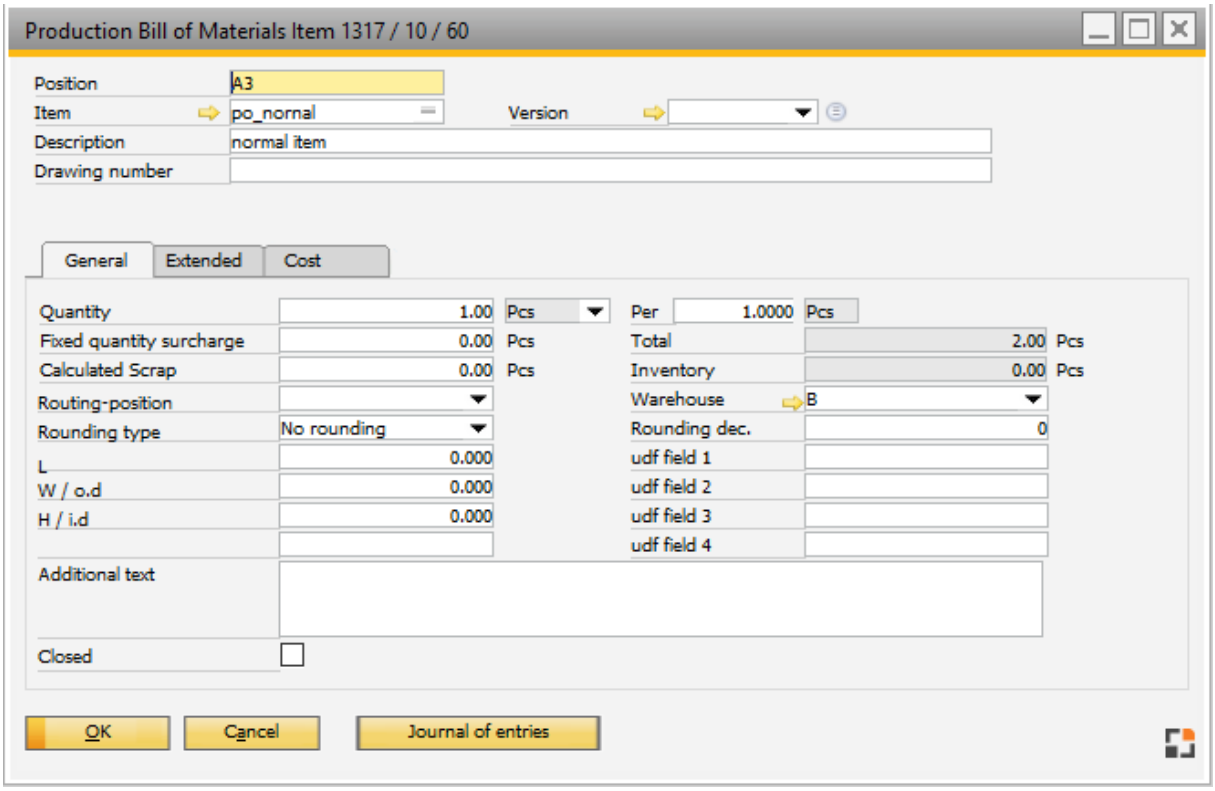
© 2026 Boyum IT Solutions A/S

Right-click function	Description
Open	Open detail
Search	Open the search menu.
New	Create new work order item.
Copy	Copy item.
Delete	Delete item.
Reports	Open a list of reports.
Window settings	Opens the window settings. Additional columns can set to be displayed or amended. For example, if the routing position is set this to changeable, you can choose operations from the list by drop down.
Inventory Movements list	Open the Inventory Movements list.
Invent. History	Open Inventory history history for this item.
Change log	Change log for this work order.
Material requirement	Material requirement for this entry.

back to Work order position

Display all details of a work order Bill of Materials position.

© 2026 Boyum IT Solutions A/S



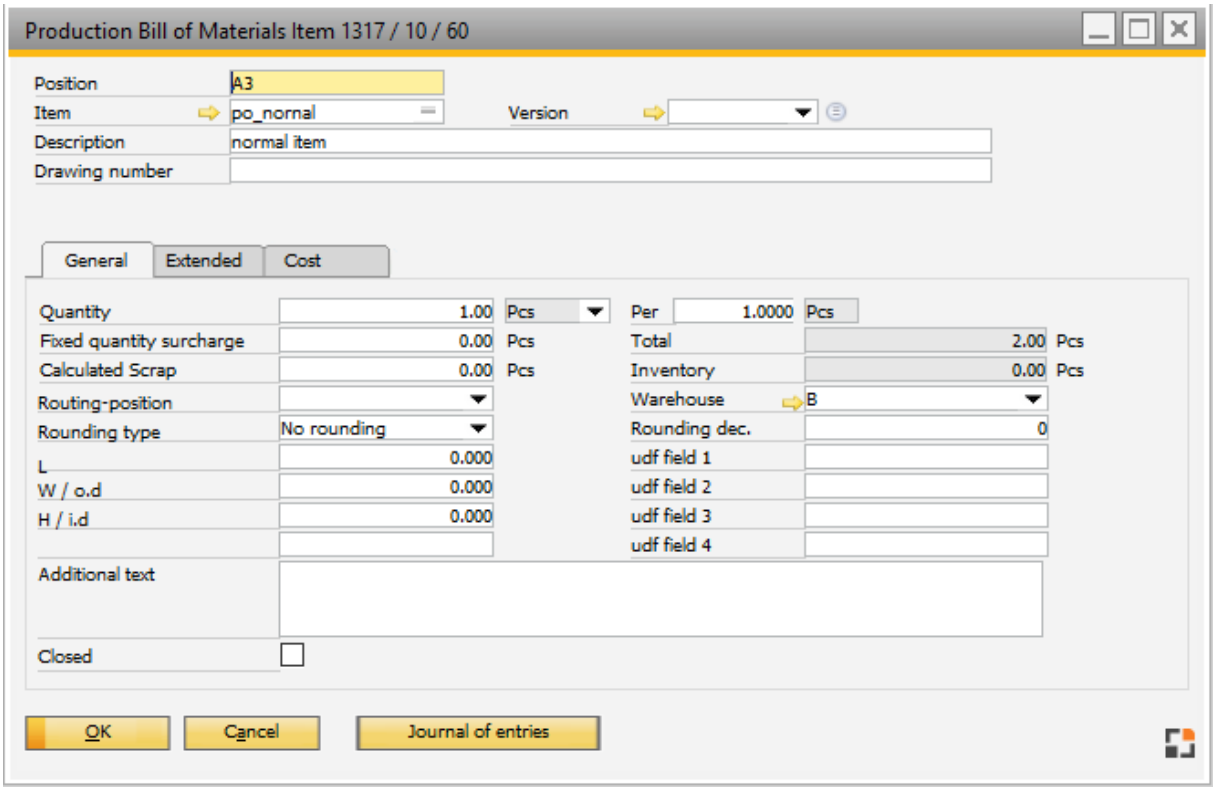
Window fert_ftstlpos_edit.psr

See Field descriptions

In the General tab you can see and edit all details of a work order BOM position.

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Bill of Materials" tab > **Open** WO BoM position > "General" tab.

© 2026 Boyum IT Solutions A/S



fert_ftstlpos_edit.psr

Field descriptions

Field	Description

Quantity	Requirement in Input units
	Determines the requirement in input UoM per assembly in input unit (***See*** Input UoM , Units of measure)
	
	Calculation of total quantity
	The total quantity is always in inventory UoM
	Calculation is
	
	`total quantity = input UoM`
	`* Conversion factor to production UoM`
	`* Scrap % (formula: see scrap%)`
	`* Conversion factor to inventory UoM`
	`* (Quantity from work order position * Conversion factor to inventory UoM)`
	`: Quanity per (see per)`
	`+ fixed quantity surchase`

© 2026 Boyum IT Solutions A/S

Field	Description
	IMPORTANT: When an UoM Group is defined for an item, the UoM Conversion is applied based on SAP definitions and NOT the conversions defined in Beas. Not planned Material position (Quantity = 0) You can define Material position with Quantity = 0 ***Example***: For Material positions which you need only in processes related to the business work flow or production processes of a company. **Valuation** In precalculation / post calculation you can define if Beas should valuate this Plan/Real cost. ***See*** Configuration Wizard Value negative quantity. By-products, coproducts, disassembly (negative quantity) Sometimes the user needs to indicate that several products are a result of a work order. These products can be: • Co-product: Usable product, automatically generated during the production of the main product. • By-product: A product that occurs incidentally or undesirably during the manufacturing of the main product. • Dismantling: Disassembling of assemblies and returning components to the inventory. In these cases, the BoM quantity is entered as a negative entry. **Negative BoM quantity behavior**

Procedure or module	Negative Bom quantity is treated as
Order recommendations	Planned receipts.
Backflushing	Posted automatically or manually.
Work order structure	Displayed in the same color as assemblies but with another icon. Displayed positive (as receipt).
Posting	Manually, backflushed or posted in via collective receipt. ***See*** Collective receipt.
Merging work	Individual receipts are inserted as negative BoM items and

© 2026 Boyum IT Solutions A/S

Field	Description

Procedure or module	Negative Bom quantity is treated as
orders	posted correctly to the WIA account.
Sales order	Negative items can be reserved for sales orders.
Pre-calculation	Valued according to Configuration wizard > Precalculation > Value negative quantity.
Post-calculation	Valuation based on post-calculation is not possible.

Order related sub assemblies

A Bill of materials position can be a sub-assembly with own Bill of materials list and Routing position.

How to manage this in the areas:

Procedure or module	Result
Pre-calculation	Bill of materials defined as receipt (negative costs) Valued according to Configuration wizard > Precalculation > Value negative quantity. Routing positions cannot produce negative costs. These are always zero.
Post-calculation	**Planned cost:** Bill of Materials: negative costs Routing position: zero **Real costs:** Bill of Materials: Sum of all transactions Routing position: Sum of all time receipts. It can only be positive value.

Configuration example for disassembling:

For disassembling, there is no main product. Use a service item (not storage-related) and define the resulting products in the BoM. Expected quantities are entered as negative.

© 2026 Boyum IT Solutions A/S

Field	Description

```
Service item
|_ Product 1
|_ Product 2
```

Configuration example for a by-product:

For by-products indicate a main product on top level. This way you can work with off-cut and reuse waste material.

```
Main item
|_ Material
|_ By-product
```

Information on field names

Area Master Data

Quantity input UoM	BEAS_STL.INPUT_QTY If the stored value is NULL, MENGE_VERBRAUCH will be used. In th entry window, INPUT_QTY is entered, using INPUT_FACTOR the column MENGE_VERBRAUCH is calculated.
Input UoM	BEAS_STL.INPUT_UNIT Input UoM
Factor	BEAS_STL.INPUT_FACTOR Conversion factor from input unit to production UoM
Quantity Production UoM	BEAS_STL.MENGE_VERBRAUCH Requirment in production UoM. Reference quantity for all following calculations
Production UoM	OITM.U_me_verbr Production UoM from item master
Quantity warehouse	BEAS_STL.MENGE_LAGER Requirement in Inventory UoM – Information only
Inventory UoM	OITM.InvNtryUom Inventory UoM as per item master

INPUT_QTY, QUANTITY_USE

Note:

© 2026 Boyum IT Solutions A/S

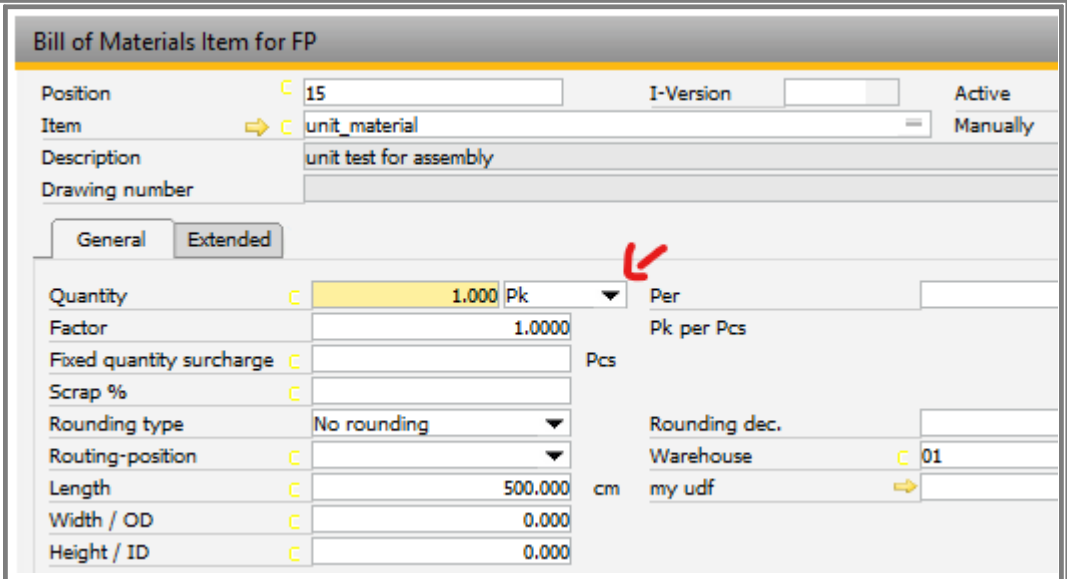
Field	Description
	If an issue or receipt document is created for this position or the position has order-related sub-assemblies, it is not possible to change the quantity. *INPUT_QTY, QUANTITY_USE*

Quantity per ..	Defines in which unit the quantity specification takes.
	The quantity specification relates to the assembly quantity x the factor specified here.
	At quantity 2 and "Quantity per 10 pieces", 2 pieces are needed per 10 assemblies. The default for "Quantity per" can be stored in the options.
	
	Requirement (quantity per) means: how much material is needed per assembly (quantity given in "quantity per")
	Assembly quantity "1" relates to the consumption unit of the assembly
	BoM quantity relates to the consumption unit of the BoM item
	
	Quantity per = 0
	`Entered quantity = Total quantity`
	Note: It is recommended to use "fixed quantity surcharge" instead of 0.
	
	Quantity per = 1
	`Entered quantity * Assemblies to be produced in Production UoM`
	
	Quantity per > 1
	`Entered quantity * Assemblies to be produced in Production UoM : Quantity per`
	MENGE_JE

Unit	Determines the unit of the quantity to be entered This is the field right of Quantity without title. Here you can choose the Unit of Measurement, in which you want to define the needed Quantity (***See*** field Quantity) Standard is Production UoM ***See***: Units of measure

© 2026 Boyum IT Solutions A/S

Field	Description



Inventory / Bill of Materials

It is possible to change this field every time and to every UoM which is defined in the Unit of measurement.

UoM Group is defined in defined item

If a Unit of Measurement Group is defined in the Master Data of this Material, you can choose only an UoM defined in the UoM Group. It is not possible to change the Factor in this window.

Related to the conversion formula and current values of this BoM Position, the system calculates the Quantity in Production UoM and then the Inventory UoM.

UoM Group is not defined in the item

If the item does not have a UoM Group, you can choose every UoM.

You can define a factor between this input unit and production unit only if the defined UoM is not the Production UoM of this item.

Note: Beas ignores length/width/height change as these are part of the Conversion factor - formula.

If you change the UoM factor in the item master data, or if you change the formula in the UoM, it does not affect the existing Bill of materials positions. The system takes the conversion factor defined in this window.

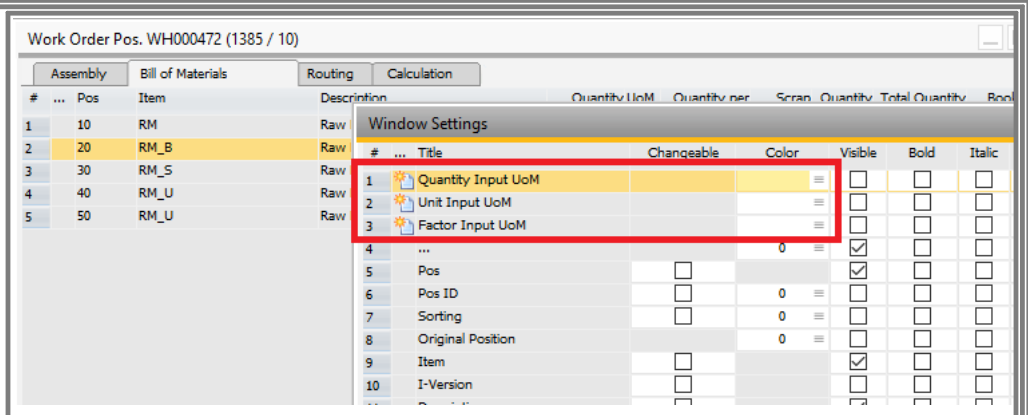
If you create a work order and the UoM Group is not defined, the system ignores

© 2026 Boyum IT Solutions A/S

Field	Description
	the UoM and UoM Factor definition, and always works with production UoM. Related to the conversion factor, the system calculates the Quantity in Production UoM and then the Inventory UoM.
	Precalculation It is possible to change this field every time and to every UoM, which is defined in the Unit of measurement. if a Unit of Measurement Group is defined in the Master Data from this Material, you can choose only an UoM defined in the UoM Group. Note: It is important that a UoM Conversion factor is defined in UoM Conversion. Related to the conversion formula and current values of this BoM Position, the system calculates the Quantity in Production UoM and then the Inventory UoM.
	Work order In **Work order > Bill of Materials** the input unit is only changeable: - if no transaction exists - a Unit of Measurement Group is defined in the Master Data from this Material You can choose only UoM if - Defined in the Unit of Measurement Group - UoM Conversion exists for this UoM and Inventory UoM If you change the Input unit, the Quantity will be calculated based on quantity in production UoM and on the Conversion formula defined in the UoM Conversion. If you change the Quantity in input UoM, the system calculates the quantity in production UoM and in inventory UoM based on UoM Conversion. If you change the quantity with BeasScript or import hub, the system overwrites the Input Unit with Production UoM. If you refresh the work order, the system overwrites the Input Unit with Production UoM. In Work order Bill of Materials you can activate the Input Unit via window settings. But this fields is not changeable.

© 2026 Boyum IT Solutions A/S

Field	Description



If you change the quantity in Production UoM, the system overwrites the Input unit with Production UoM.

UoM Conversion

If Unit of Measurement Group is defined in the Master Data of this Material, the system tries to use the conversion factor defined in the UoM Group.

If it is not stored there, the system searches the UoM Conversion table. If it does not exist, the system searches the opposite in the same table and creates the formula

"1 : [the defined formula]

If the opposite does not exist, the system returns an error and continues with Conversion factor 1.

Note on UoM Groups

In Bill of Materials you can define the Quantity in Input Unit. This will be converted in Production UoM and this in Inventory UoM.

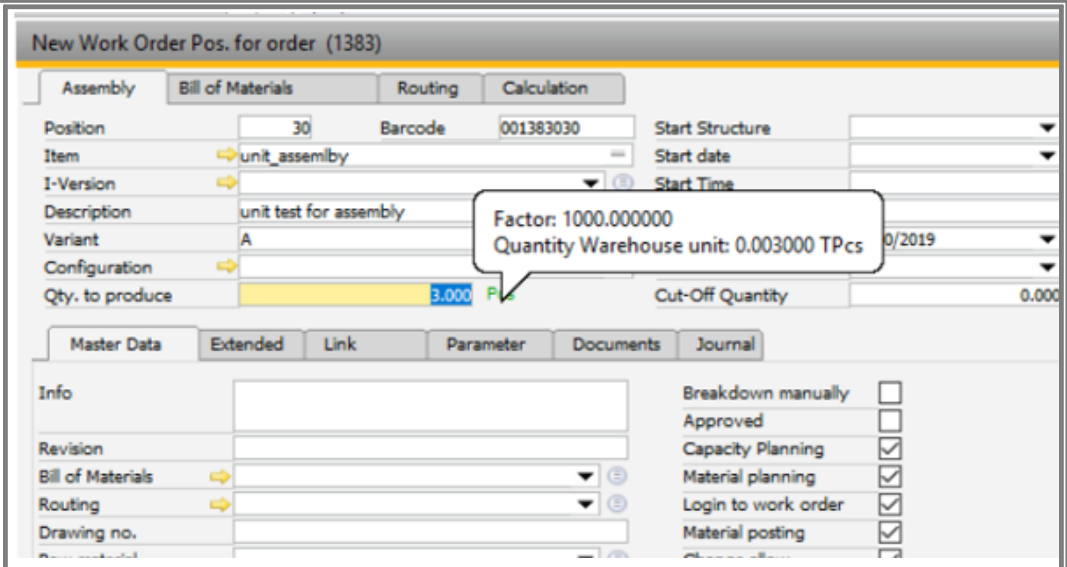
Problem: If the Production UoM is not the same as the Inventory UoM and the Input UoM is not Production UoM, the system cannot find an entry in the UoM Group. In this case, the system searches for the conversion in the UoM Conversion table to convert the quantity from Input Unit to production Unit.

Unit factor and UoM Tool tip

In the work order position, the system displays the unit in green which means that the unit factor is inside (***see*** image below). Moving the mouse over this field, the system displays a tool tip with information on the factor and the UoM (***see*** image below).

The system can calculate with 20 decimals rounded up to 6 decimals for display.

© 2026 Boyum IT Solutions A/S

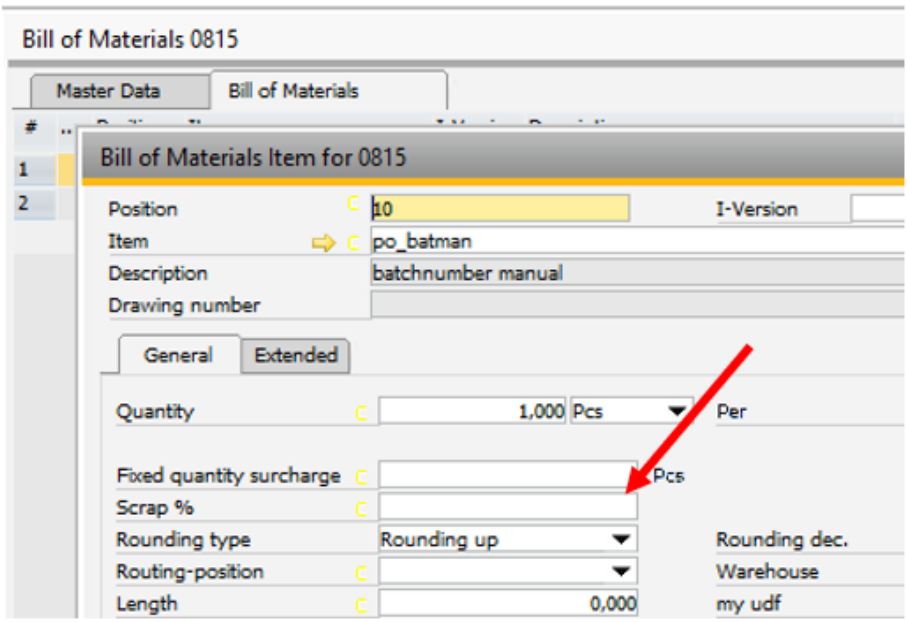
Field	Description
	 When you change the UoM, the system calculates the Quantity and the factor automatically (***see*** image below). The new Quantity is based on the current production unit. NOTE: This is only possible if a Conversion factor was defined previously). ***Example:*** Conversion: 1 TPcs =1000 Pcs Old Qty = 2000 Pcs Change UoM to TPcs. The System display Quantity = 2 TPcs If the Quantity in TPcs is changed, the system calculate the Production UoM and from this the Inventory UoM If length/width/height, density or item code self is changed, the base quantity is always the quantity in Production UoM and the system always calculates the quantity in the Production UoM and Inventory UoM.
Factor	Conversion factor between entry unit and consumption unit Only in Master Data and Precalculation: Displayed only if consumption unit and entry unit are different. Enter the conversion factor between the quantity indicated here and the consumption unit. Quantity is divided by the indicated factor.

© 2026 Boyum IT Solutions A/S

Field	Description
	12 decimal places are supported. ***Example*** Quantity 10, Factor 5 Results in a Requirement of 2 in consumption units of the material position per consumption unit if the assembly. Note: The "Exceeding planned quantity allowed" production configuration setting affects the Conversion factor: The Minimum/Maximum percentage is calculated based on total quantity. ***see*** Configuration setting. *BEAS_STL.INPUT_FACTOR*
Fixed Quantity surcharge	Defines a fixed and unique quantity surcharge Share of the surcharge – used for the Precalculation and production. The scrap factor at assemblies relates not the assembly, but only to its material requirement. The scrap is calculated per lot size: ***Example:*** Assembly lot size 500, required 1000, scrap 1 in assembly equals to 1 per 500 = 2 There is a total requirement of 1002 if a material 1x per assembly is required This value will be calculated in production and cannot be changed.
Scrap %	Determines Percentage of scrap Indicate material scrap which is added to the calculated requirement.

© 2026 Boyum IT Solutions A/S

Field	Description



Note:

This field is visible in Master Data and Precalculation.

In Work orders you can see the calculated scrap.

Set the formula to be used in the Configuration Wizard.

Available formula definitions:

`Scrap = Quantity * ( Scrap % )` (= default setting)

`Scrap = Quantity / ( 1 - Scrap%/100 )`

Example:

Definition with `Scrap = Quantity * ( Scrap % )`

Requirement: 10 Pcs

Scrap: 10%

Total requirement: 11 Pcs

Definition with `Scrap = Quantity / ( 1 - Scrap% / 100 )`

Requirement: 10 Pcs

Scrap 10%

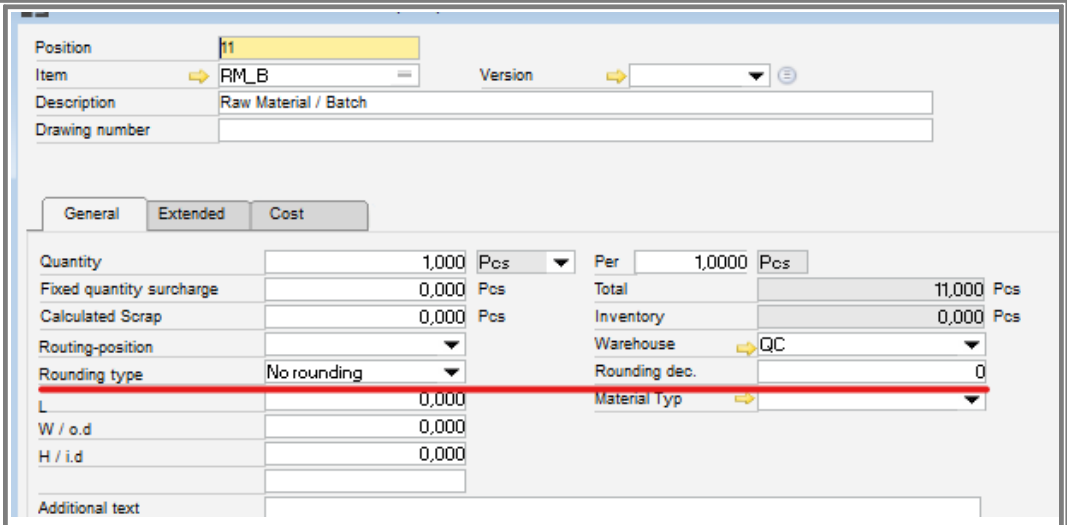
Total requirement:

© 2026 Boyum IT Solutions A/S

Field	Description
Scrap %	Calculated from scrap values This value is calculated when the work order is created. It cannot be changed; it is a one-time surcharge. (Assembly quantity * BoM quantity) + "calculated scrap" If the assembly quantity is changed, the "calculated scrap" does not change. To re-calculate, a Work order update is required. ***See*** - scrap factors in routing, ***see*** Routing - material scrap - scrap of superordinate assembly or phantom assembly, ***see*** Scrap - offcut factor of superordinate assembly or phantom assembly, ***see*** Offcut factor For purchase parts additionally - scrap as per master data, ***see*** Scrap - off-cut factor as per item master, ***see*** Offcut factor Note: If in BoM position "Do not post scrap" is activated, scrap will not be determined. ***See***: Master data – edit BoM Offcut Option consider offcut
Rounding type Rounding dec.	Determines the rounding rule The rounding rule can be defined here:

© 2026 Boyum IT Solutions A/S

Field	Description



Available settings:

No rounding	There is no rounding defined.
Round up	The number is rounded up. The exact decimal place can be defined in "Rounding Dec." ***Example:*** You have defined 1 piece per 18: the factor is then = 0.055556 If you multiply 0.555556 x (17+1) = 1.000008 After this you apply a round up --> The final result is 2.
Round off	
Rounding at 5	From 0,5 (1 Decimal place) or 0,5 (2 Decimal places) will be rounded up. Lower will be rounded off ***Examples:***

Requirement	Decimal place	Rounded
1,45	2	1,45
1,45	1	1,50

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>
<table>
<tr><th>Requirement</th><th>Decimal place</th><th>Rounded</th></tr>
<tr><td>1,45</td><td>0</td><td>1,00
Note: Only the last decimal place is considered. Thus, there is no rounding up of the second decimal place.</td></tr>
<tr><td>1,49</td><td>0</td><td>1</td></tr>
<tr><td>-1,5</td><td>0</td><td>-2</td></tr>
<tr><td>-1,45</td><td>0</td><td>-1</td></tr>
<tr><td>-1,45</td><td>1</td><td>-1,5</td></tr>
</table>
</td></tr>
<tr><td>multiple of</td><td>Always the multiple will be formed, which will be indicated in "Rounding Dec."
Example:
Multiple order of 4
4, 8, 12, 16 is counted
At quantity 3 is rounded to 4
At quantity 4 the quantity 4 remains unchanged
At quantity 5 is rounded to 8

Example:
Multiple order of 10
10,20,30,40 is counted
At quantity 1 is rounded to 10
At quantity 10 the quantity 10 remains unchanged
At quantity 11 is rounded to 20</td></tr>
</table>

Example 1:
A palette per 100 pieces is required
Quantity of requirement corresponds 0.01 palette per piece. But at least one palette has always to be required and from 101 pieces even 2 palettes. The BOM position will be adjusted as following for this:
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Quantity: 0,01 Rounding type: multiple of Rounding Dec. 100 ***Example 2:*** A half piece is required. because there is no half piece. It must always be rounded up to 0 decimal place because there is no half piece. Thus a requirement of 0,8 will actually be rounded up to 1 piece. The following setting occurs: Rounding type: round up Rounding Dec: 0 Note: Negative statement of decimal places are not supported. Rounding results are always in Inventory UoM.
Routing-position	Determines the routing position for which the material is required For backflushed material, the material is issued on receipt of this routing position. The MRP run and APS consider the start date of this operation when calculating the material requirement. **Phantom assembly group:** Routing-assignments work with restrictions for nested phantom assemblies: The routing assignment of the above located main assembly group always applies instead of the phantom assembly group assignment within a sub-phantom assembly group. **Master data:** Which routing is to be used can be defined in the BOM. The routing with the same ID will be used if none have been defined. A checking of the assignment is not possible because a routing can be assigned to multiple Bill of materials. The assignment will not be checked even at a change of a routing.

© 2026 Boyum IT Solutions A/S

Field	Description
	Production: Assignment is always done at the routing of the current production position.
Total	Calculated total quantity in Inventory UoM Only in Work order Bill of Material window More information see concept "Total Quantity"
Inventory	Current Inventory in Inventory UoM on Warehouse, which defined in field "Warehouse". Only in Work order Bill of Material window

Warehouse	Default warehouse for planning and backflushing
	If a warehouse is specified, the material is issued from this warehouse by default when backflushing. Warehouse information is mandatory.
	You can choose any warehouse defined for this item, and active on item-warehouse side and active on warehouse side.
	It is allowed to select a warehouse, which is locked for issue transactions.
	
	MRP checks the warehouse defined in the BoM Position.
	Precalculation: It is possible to select locked warehouses.
	
	If the material position is an order-related sub-assembly, the system creates a new work order position for this sub-assembly but does not take the warehouse from the Bill of materials position.
	For the new work order position, the system uses the standard rules for warehouse definition. ***See*** warehouse rules.
	Example:
	Assembly A, default Warehouse 01
	BoM Order-related Assembly B, default Warehouse = 01, Bill of Materials Warehouse 07
	
	If you create a work order:
	`Work order Position 10: Assembly A = Warehouse 01`
	`Bill of Material Position 10: Warehouse 07`
	`Work order Position 20: Warehouse 01`
	
	Note: At "Production backflushing" you can specify an issue warehouse which has a higher priority.
	See Production backflushing

© 2026 Boyum IT Solutions A/S

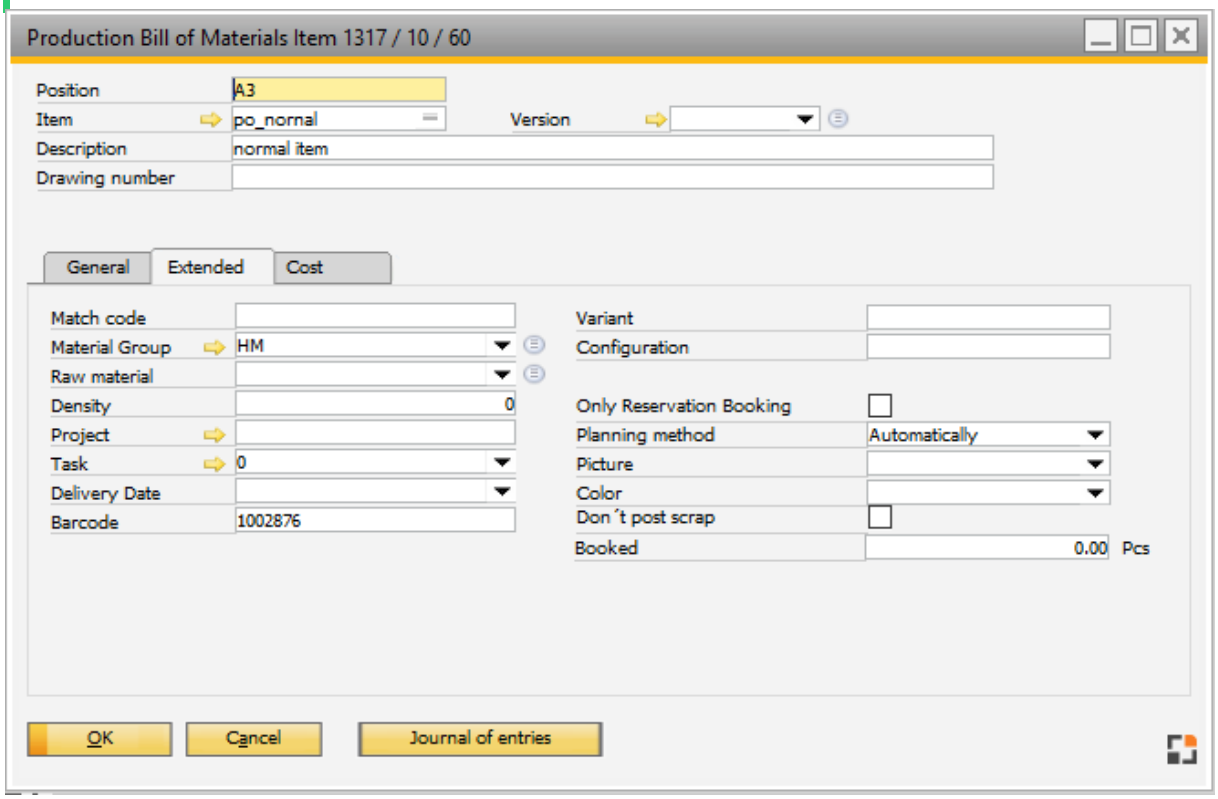
Field	Description
Bin Location	Bin location number - available for bin-managed warehouses. Only valid "Bin Locations" for the selected warehouse are allowed. After changing the warehouse, the bin location content is set to empty in this field. **Work Order BoM and Precalculation:** A work order created from an Item, or Precalculation copies this field automatically for the BoM. If there is not enough stock to pre-assign quantities from this, pre-defined bin location, Beas continues to pre-assign them from further bin locations based on the sorting rules.
Length Width / OD Height / ID	Length, width, height or outer/inner diameter Determines the measurements of the materials. The requirement of the consumption unit can be indicated. The required quantity in warehouse unit can be defined in Quantity unit - Conversion The measurement can be indicated in the conversion. e.g. Requirement: 100mm (Consumption unit) Conversion to piece: 1 piece = 1000mm A requirement of 0.1 piece is then determined.
Completed	Production: defines the position as "completed" It is set automatically according to the settings if the default quantity has been reached. The completed BOM positions are no longer considered in the material requirement list and MRP.
Info	Any information This field is unnamed in the basic installation. The name of the field can be configured in **Configuration Wizard > Master Data > Bill of Materials > View > Info Field**.
Closed	Close this Bill of Materials position Only available in Work order Bill of Material position Displays if the Position is closed or not if this position not closed, you can close this position

© 2026 Boyum IT Solutions A/S

Field	Description
	If you want to reactivate this Bill of Material position, you must choose "right mouse click" – "Position re-activate"

In the "Extended" tab you can edit additional information for the WO BoM position.

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Bill of Materials" tab > **Open** WO BoM position > "Extended" tab.



Window fert_ftstlpos_edit.psr

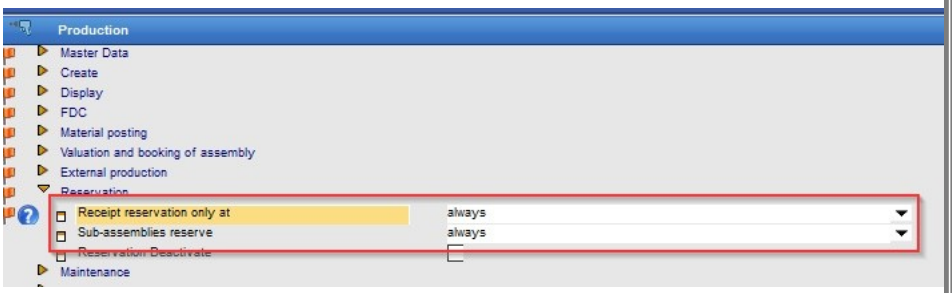
Master Data information

Field	Meaning
Match code	Optional
Material group	Selected material group
Raw material	Selected raw material

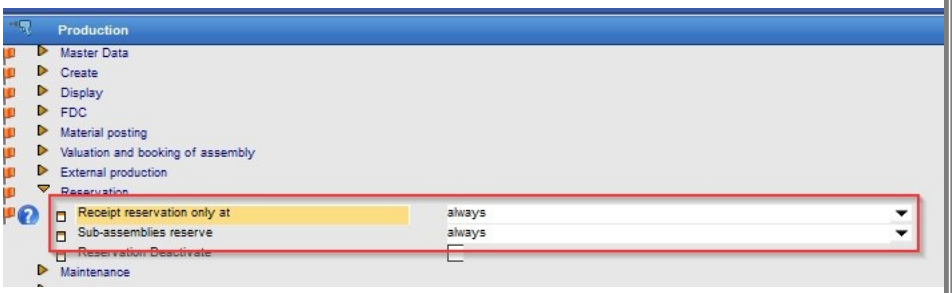
© 2026 Boyum IT Solutions A/S

Density	Density
Project	Project link. Display from work order item. Read only.
Task	Refers to project tasks. You can see all generated costs in the project cost types with active option Issue. ***See*** Project Cost Elements. Note: If the task is not linked (manually), the material item is not considered at cost calculation.
Delivery date	Planned delivery date. Only info.
Barcode	Unique Bar code for this BoM item Using this bar code, the item is determined. In various posting screens the BoM item can be selected directly using this number. ***See*** Goods receipt
Variant	Variant (from assembly)
Configuration	Configuration ID (from assembly)
Issue remains	Charge-off batch stock from a quantity ***See*** item - edit BoM
Only reservation booking	Post only reserved items. ***See*** item - edit BoM
Image	Stored Image.
Color	Stored Color.
Receipt	Already posted quantity.
Issue	Already posted quantity.
Don't post scrap	Check box to set not to post scrap

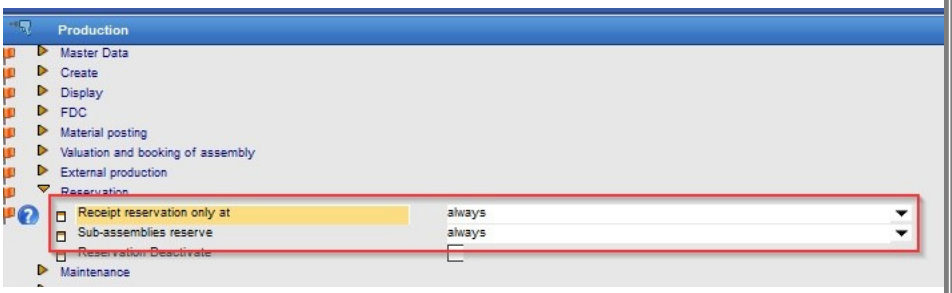
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
Breakdown with Variant	Define the short variant for order related sub-assembly

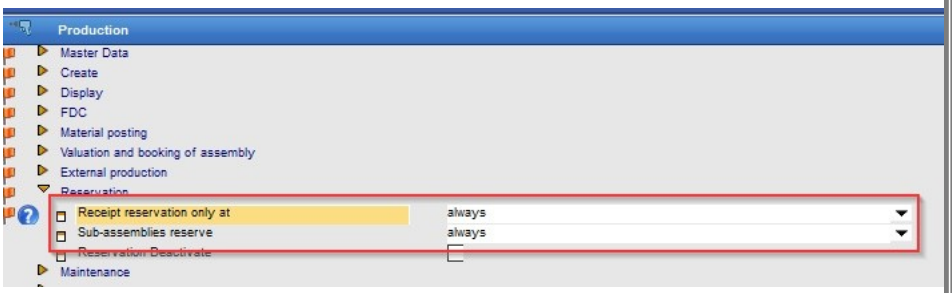
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	If you define a short variant (A-Z), the system uses this for complete order-related sub-structure

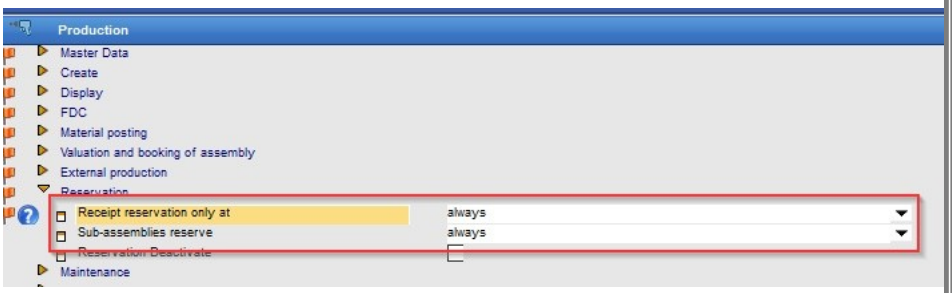
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	With this flag you can overwrite the Short variant Information from previews level.

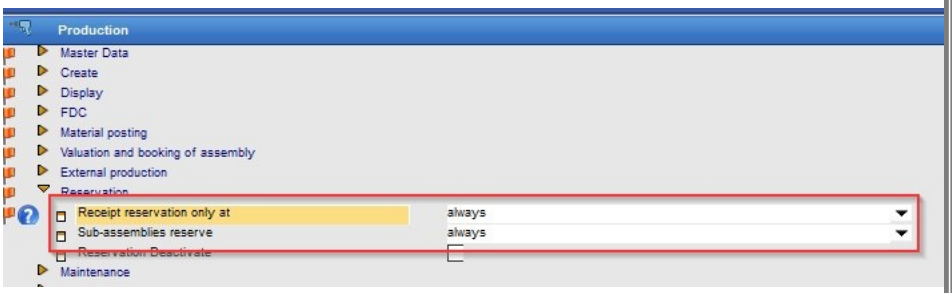
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.

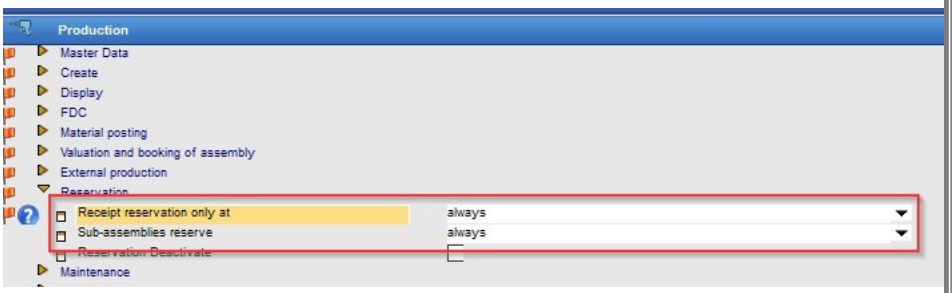
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	This field is only visible if the Item of this Bill of Materials position is an order-related assembly.

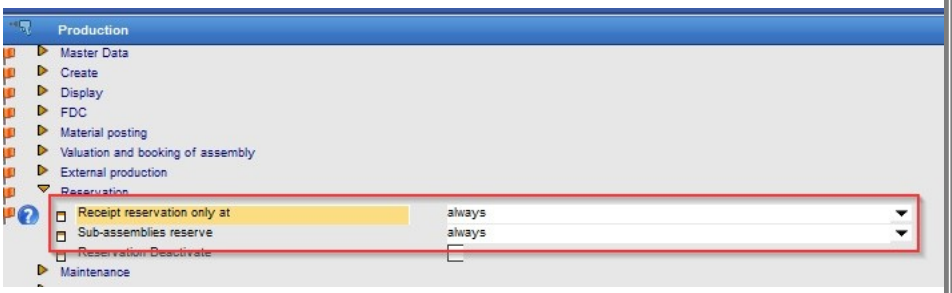
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Example:

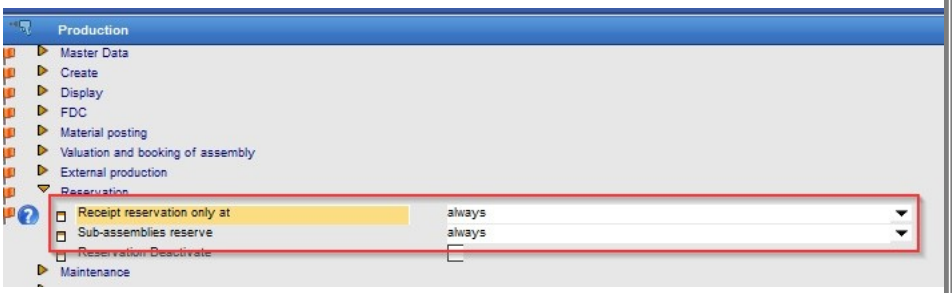
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Sales Order A001 with Variant B

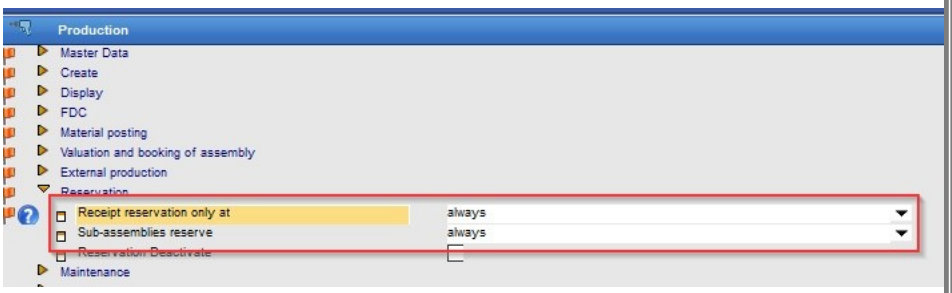
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	BoM SubA002 (order related Item) "Breakdown with Variant" = empty

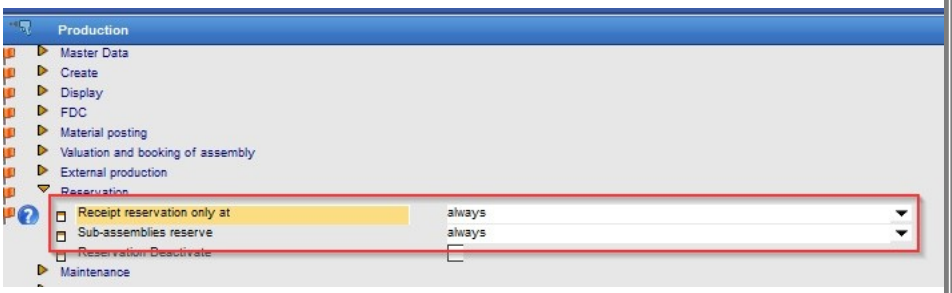
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	In this case the system uses Variant B for breakdown "SubA002"

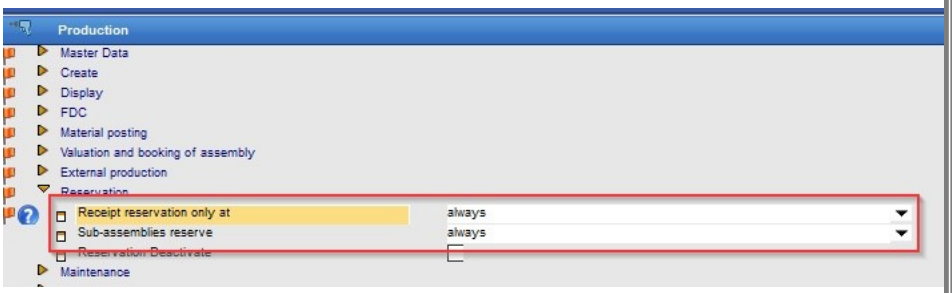
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Sales Order A001 with Variant B BoM SubA002 (order related Item), "Breakdown with Variant" = C

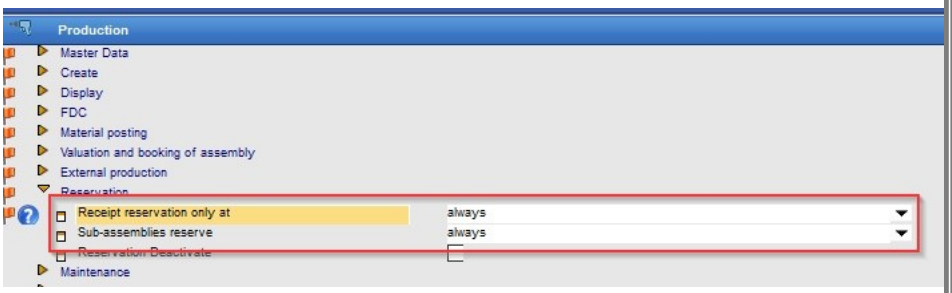
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	in this case the system uses Variant C for breakdown "SubA002"

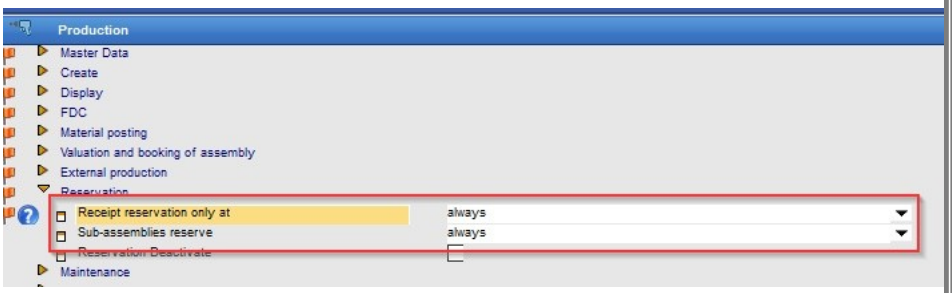
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	beas 9.3 PL 2

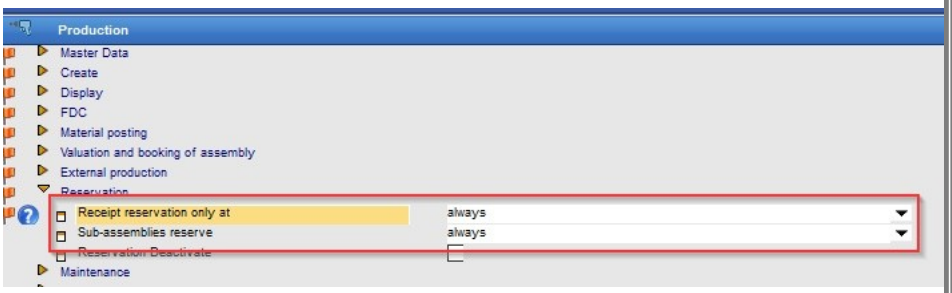
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
issue batch remains	Charge-off batch inventory from the remaining amount of Only visible for batch related items.

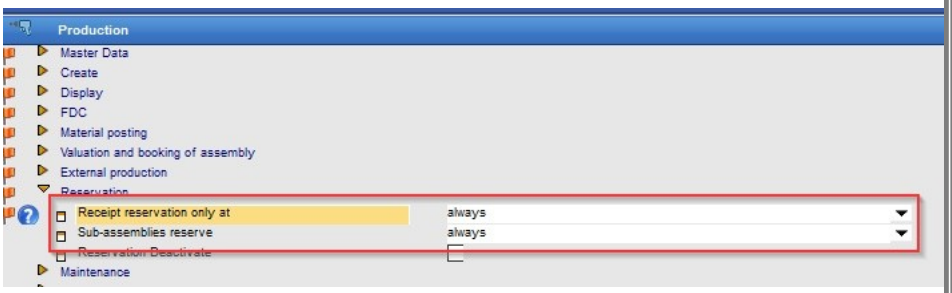
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Refers only to backflushing function or the function "issue material".

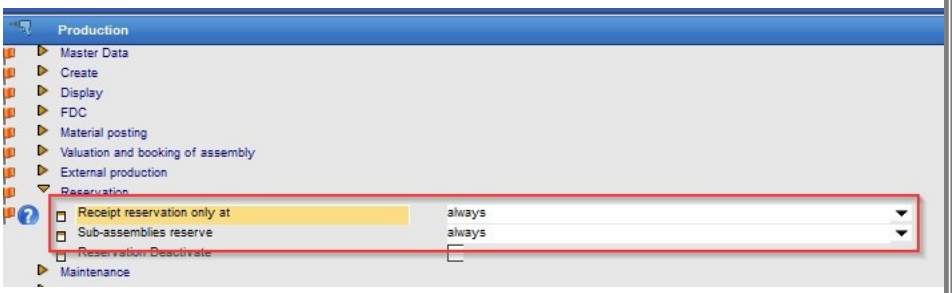
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Here you can specify whether the remaining quantity of a batch can be issued. The starting quantity is specified here.

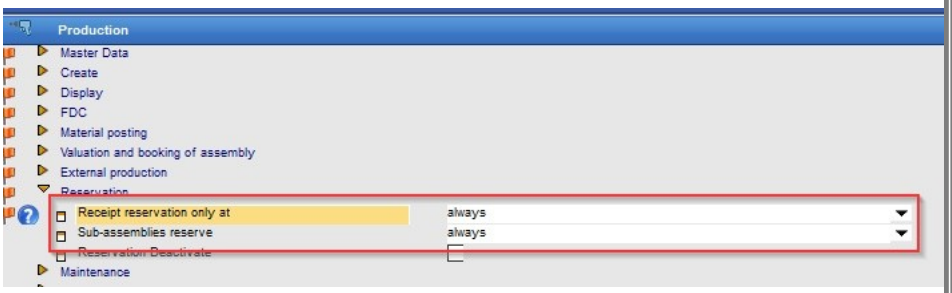
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Example of use:

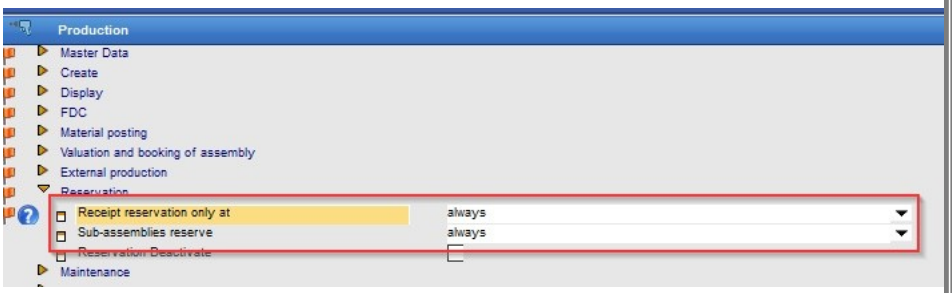
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	15 liters are required, 15.02 liters are on stock. Specify: issue remains from 0.1 liters. Then, in the backflushing process remaining stock of 0.02 liters is

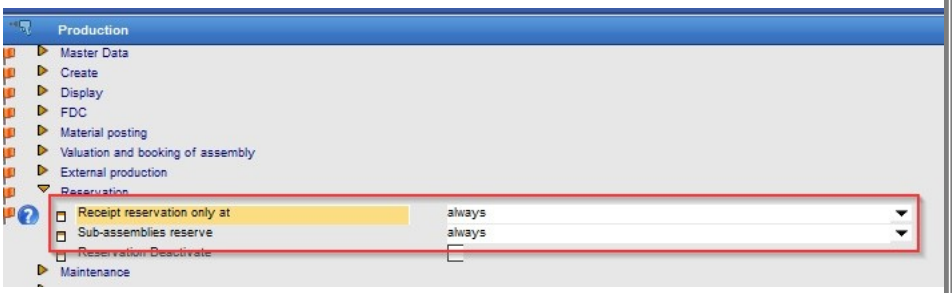
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	issued, as this can not be used anymore.

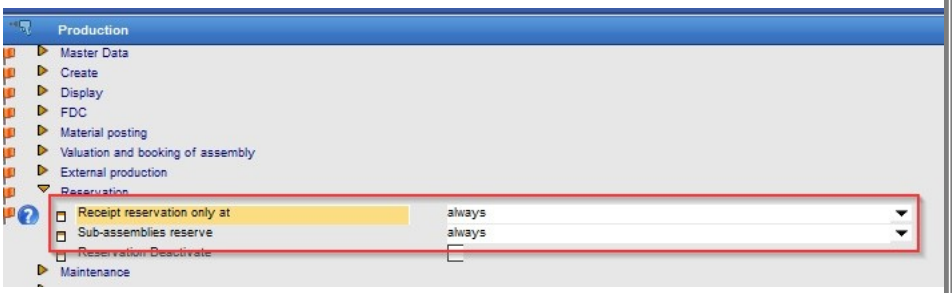
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Numbers are given in warehouse units, as referring to inventory.

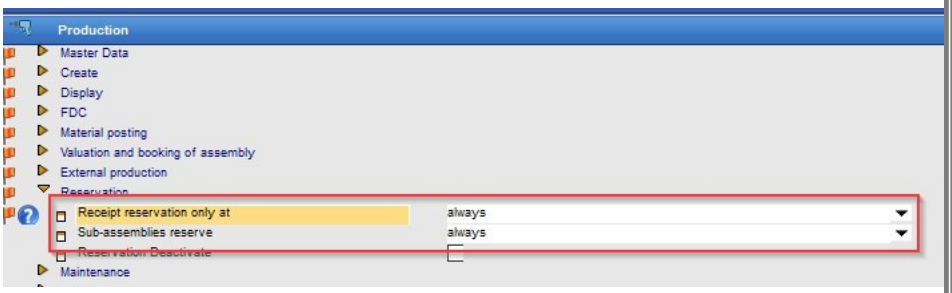
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	In **Configuration wizard > Production > backflushing** you can set up, to issue only once at final posting (for example when the completion of a work order

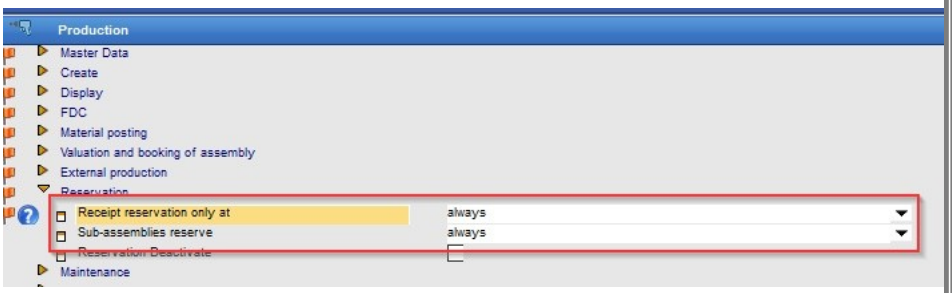
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	is reported) or at every posting.

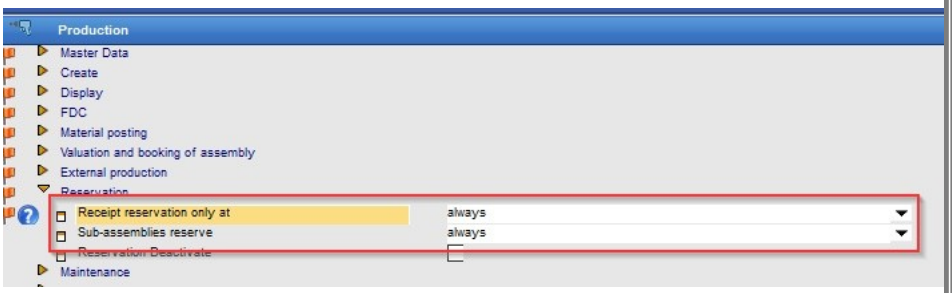
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	In work order structure in material row a red dot will be displayed next to the planned quantity, after a value was entered here.

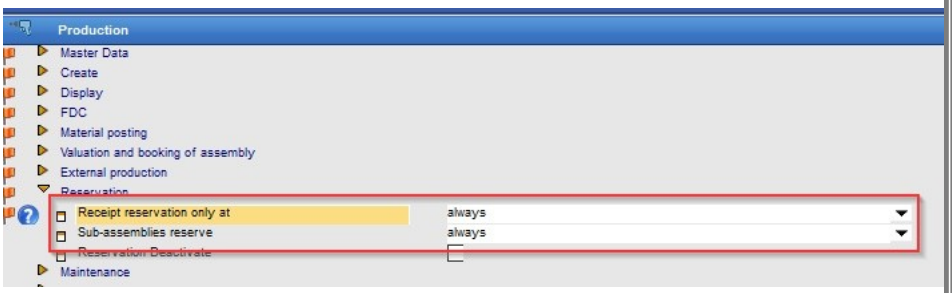
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.

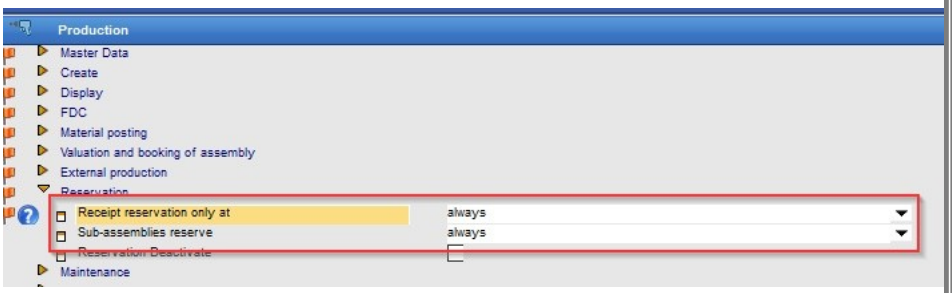
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Note:

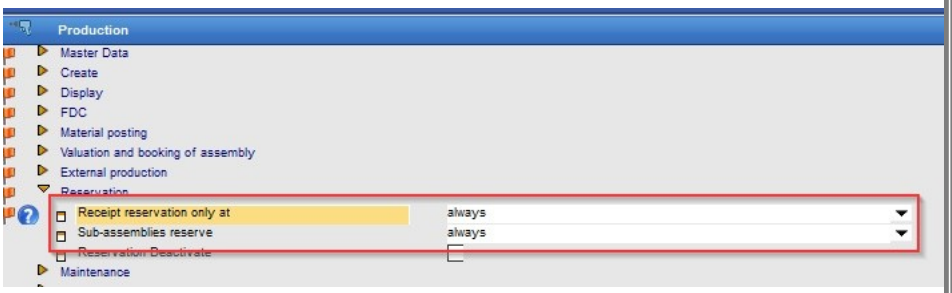
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Backflushing function beas2009-version is not supported. ***see*** Configuration wizard - Material booking - backflushing

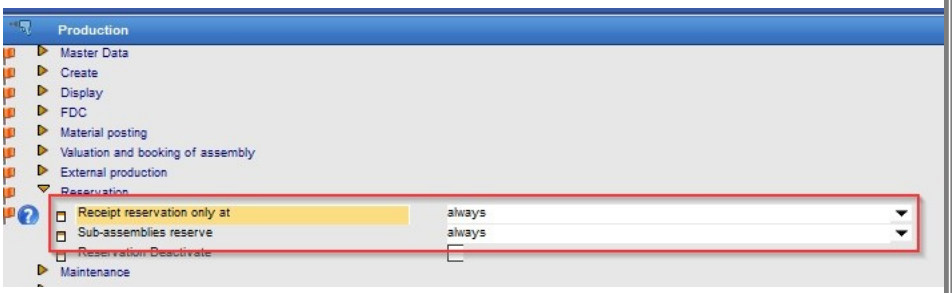
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	If a batch is located on several bins this could lead to problems.

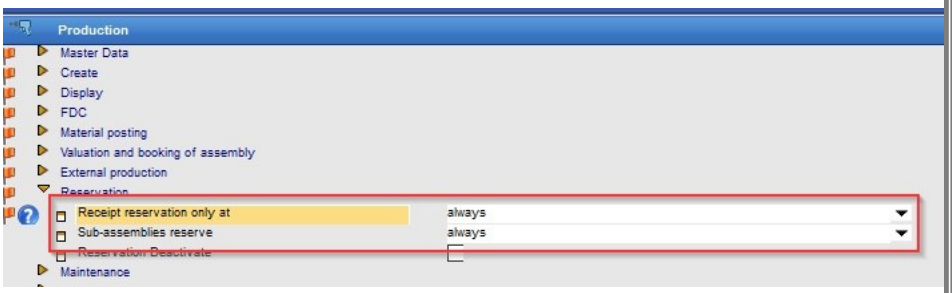
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	A batch may only be booked to one BoM position.

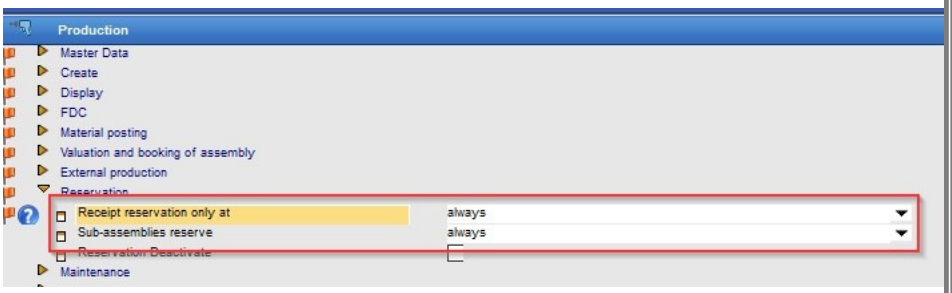
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Example: is is not allowed to post the same item batch on BoM position 10 and 20. Such a constellation could lead to problems.

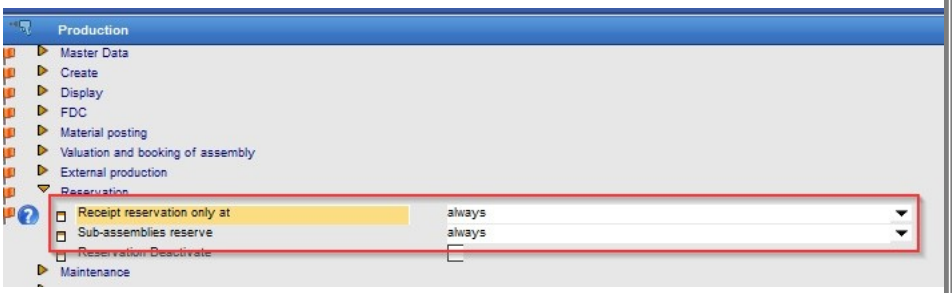
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.

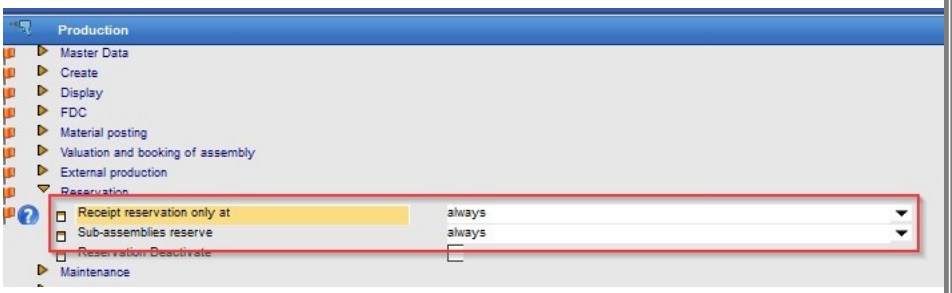
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	There may be no further reservation on this batch remaining inventory. If there is a reservation, nothing will be issued.

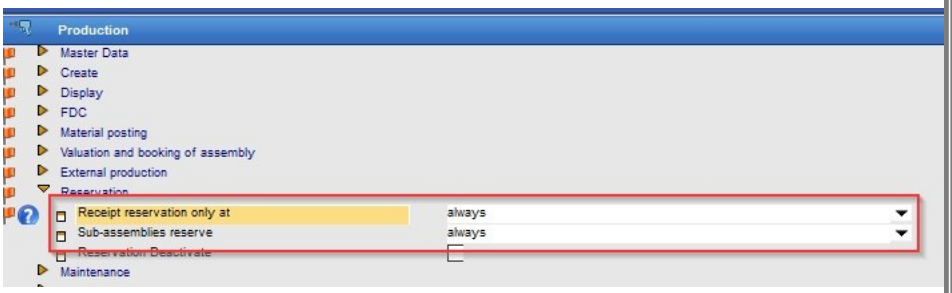
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.

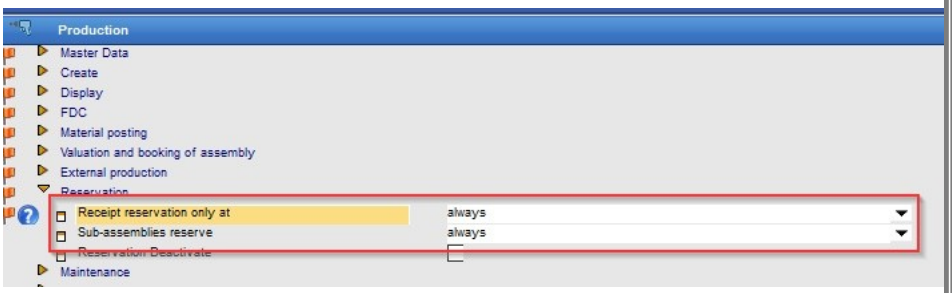
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	The remaining quantity is posted to the WIP-account of the work order. A separate posting for the remains is generated. Costs are set in to the work

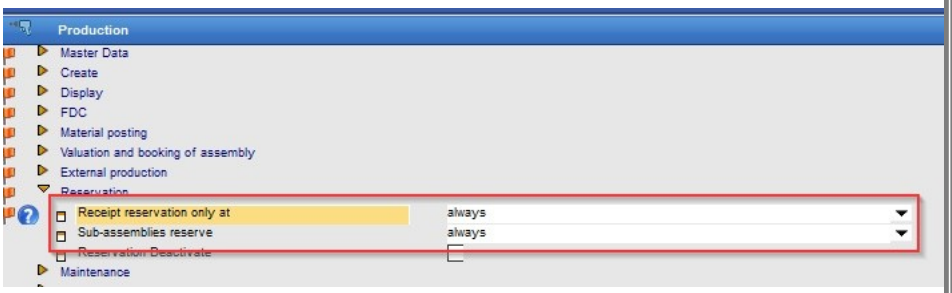
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	order in the post calculation.

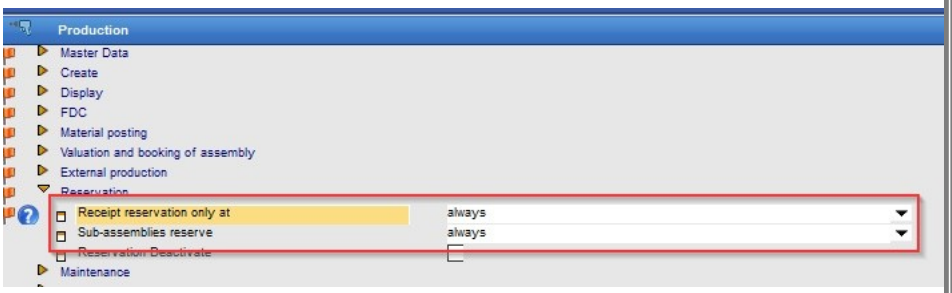
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	beas9.0-000-002-002

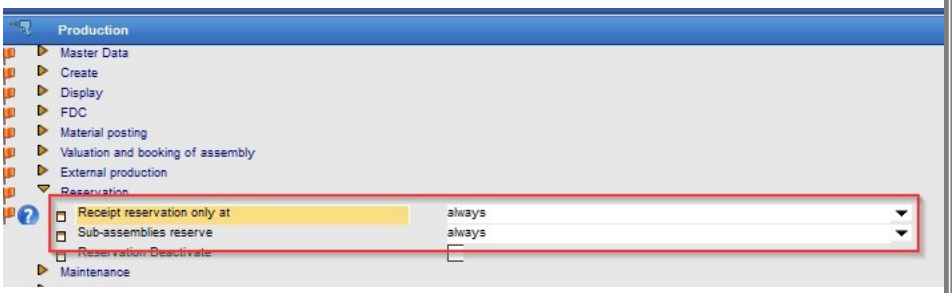
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
Only reservation	Activate to charge-off at most the quantity of reserved goods Note

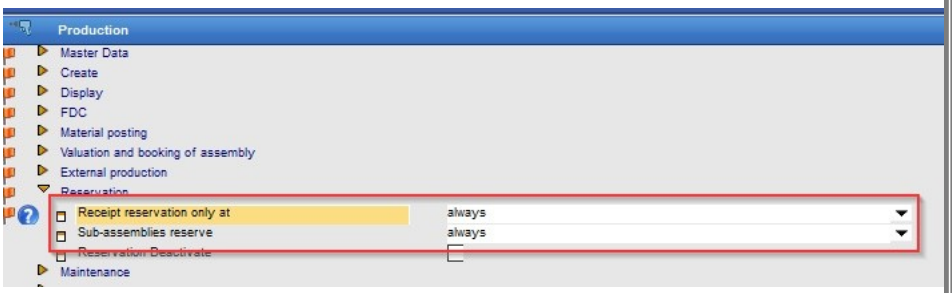
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
booking	Refers only to the function "material issue" / "backflushing (not beas2009-Version)" to the function "pre-assign" ***See*** Material posting - pre-assign.

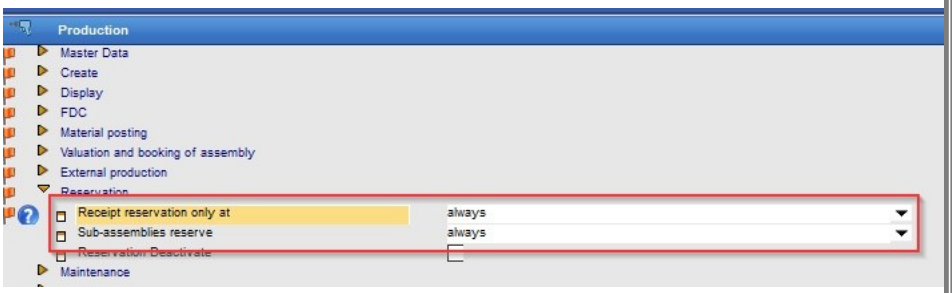
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Manual issue function is not supported. Any quantity can be issued manually.

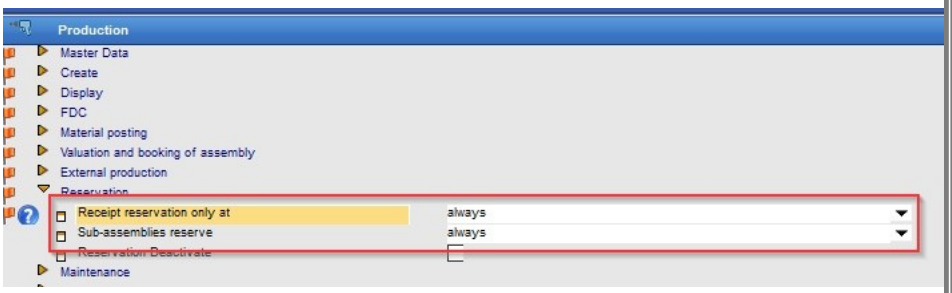
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Function is supported only if the reservation function was not disabled. ***See*** Configuration wizard - Production - Reservation

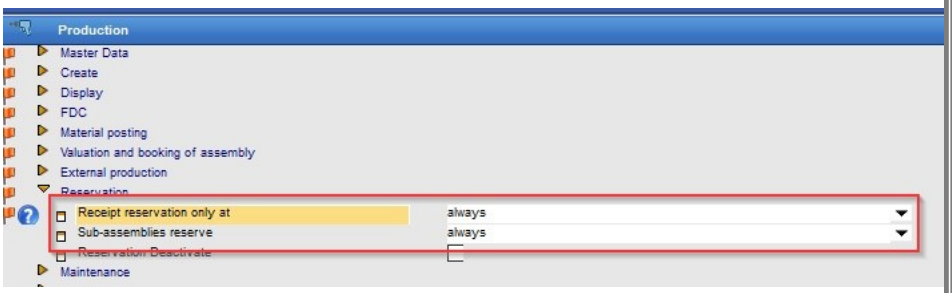
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	beas9.0-000-002-002

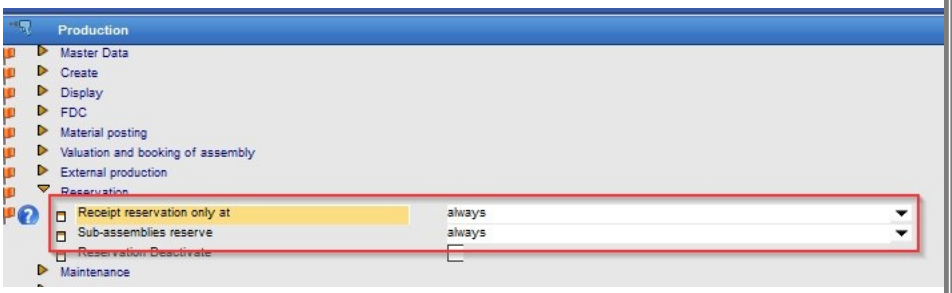
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
Don't post scrap	If enabled, scrap quantity is not taken into account

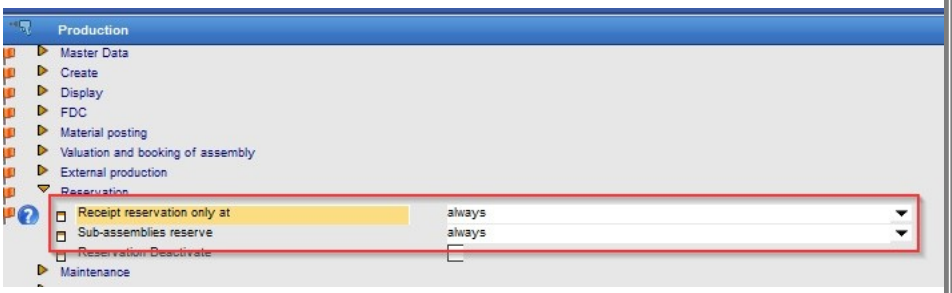
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	If this option is enabled, the scrap or offcut indicated for this position will not be taken into account.

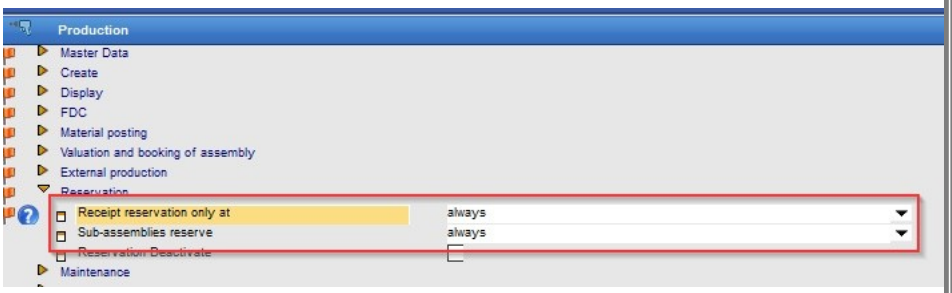
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Example of use:

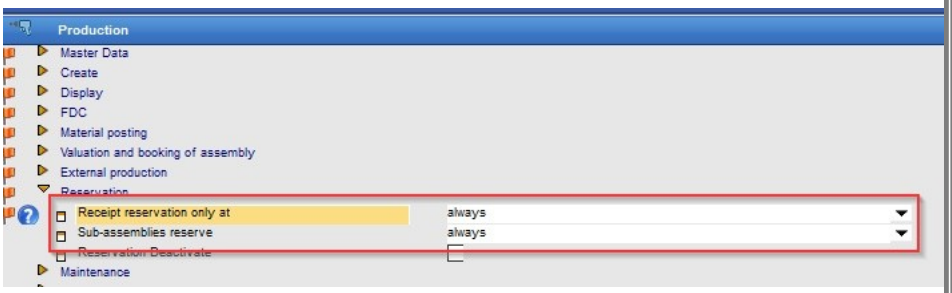
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Production position Quantity100, Scrap/Offcut 10 100 pieces in the package

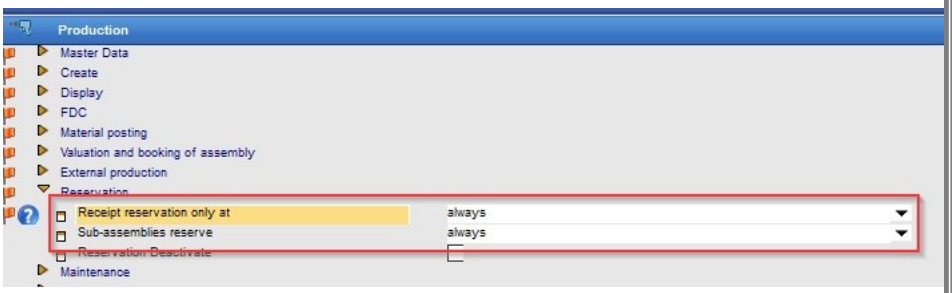
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	In BOM next to components the packaging size can be indicated. Scrap shall not refer to packaging but only to the components.

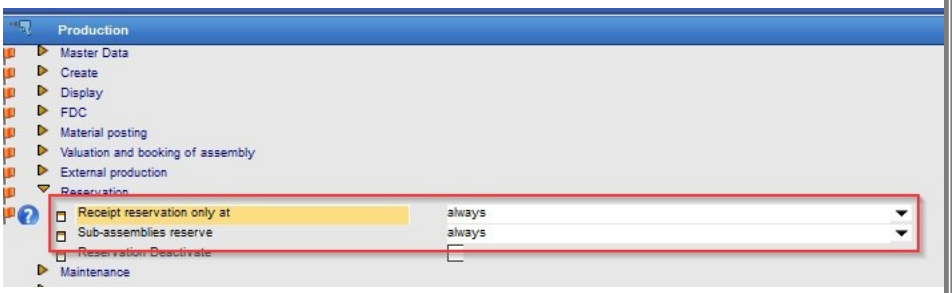
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	In this case enter: 1 package per 100 pieces, Activate "Do not post scrap"

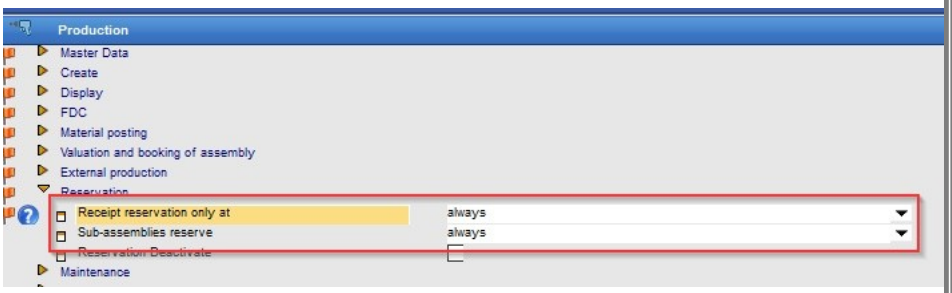
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	beas9.1-004-067-000

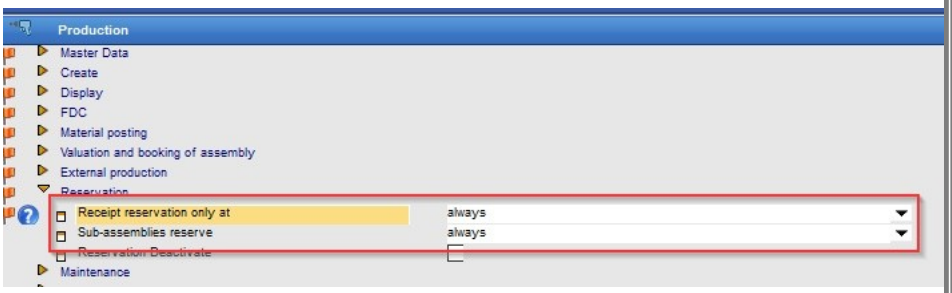
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
Planning method	Determines whether the planned material issue or receipt is displayed in MRP. Setup options:

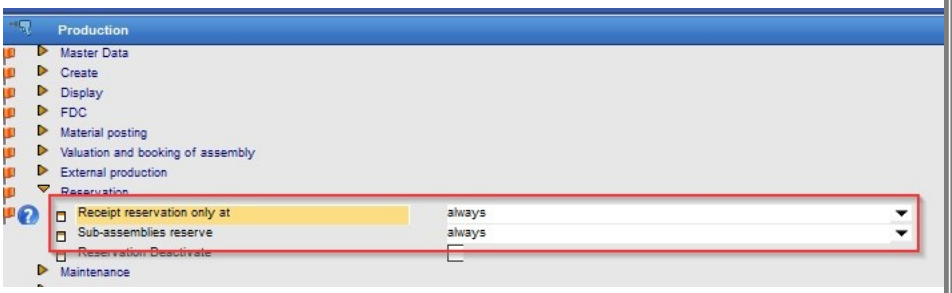
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	automatically: Item is considered and displayed in MRP.

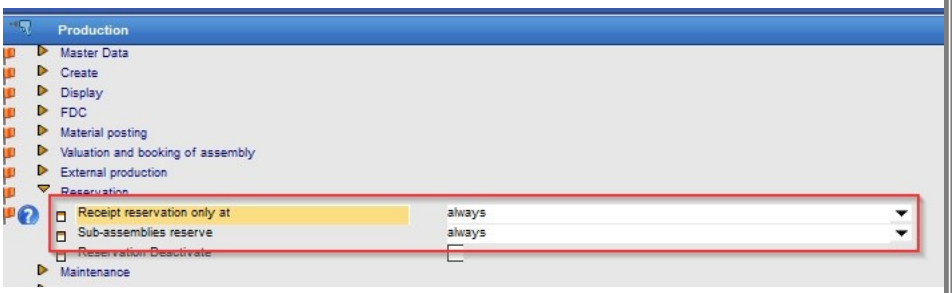
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	none: Item is not considered in MRP

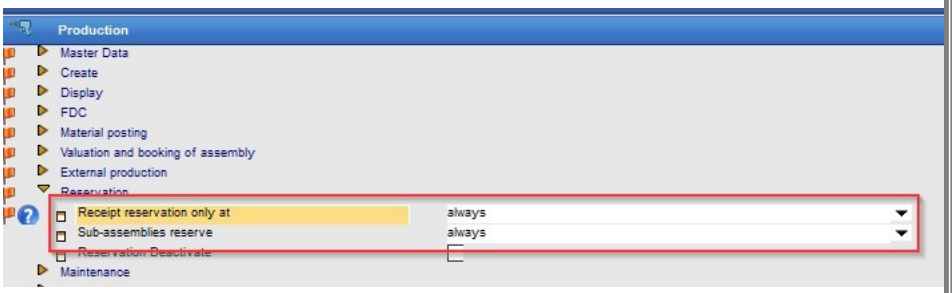
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Note:

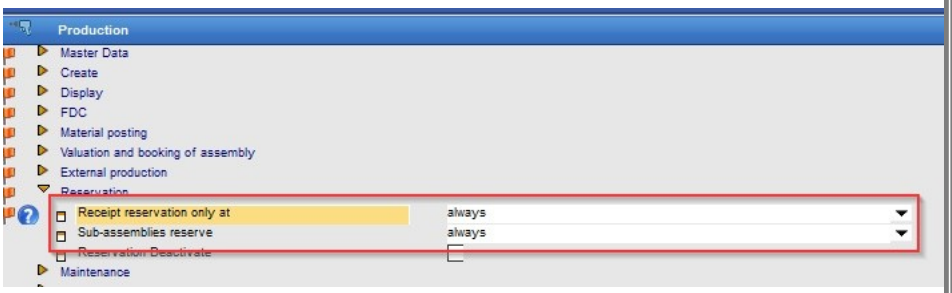
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	In case of assembly, the switch affects only the assembly, not its material.

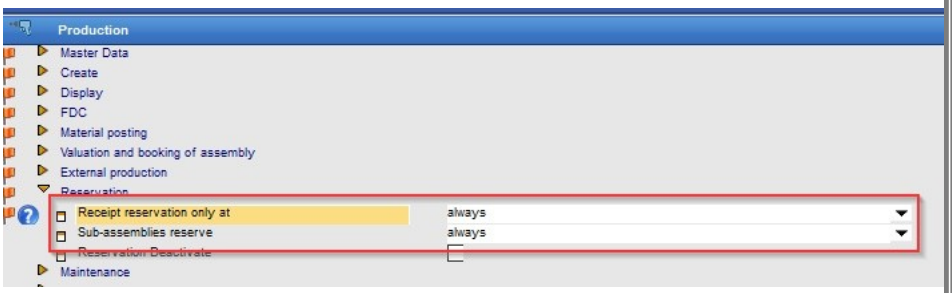
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Note:

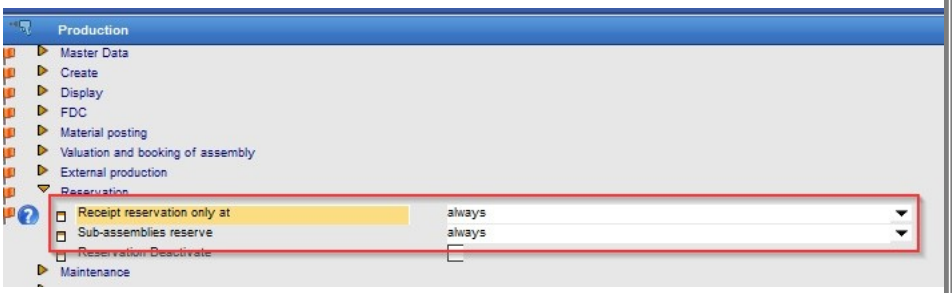
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	This setting has no effect on work order creation, only on MRP.

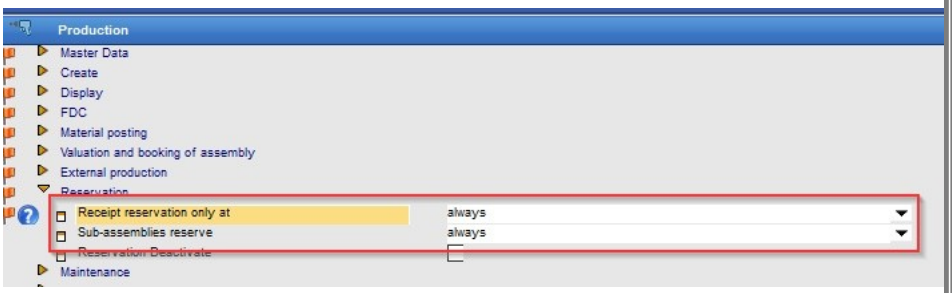
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	If the work order is created from a calculation, this option is set to "automatic" by default. It can be changed manually.

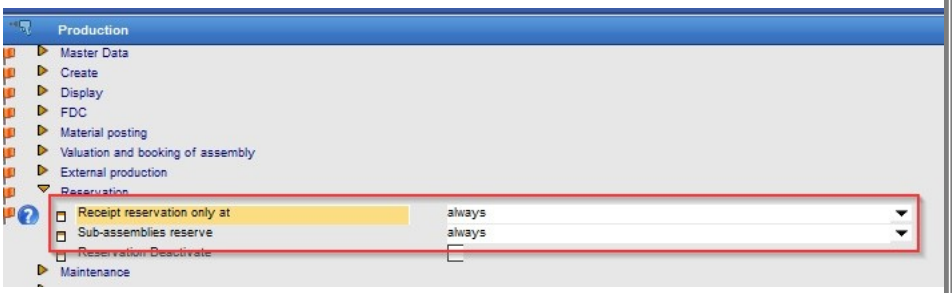
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.

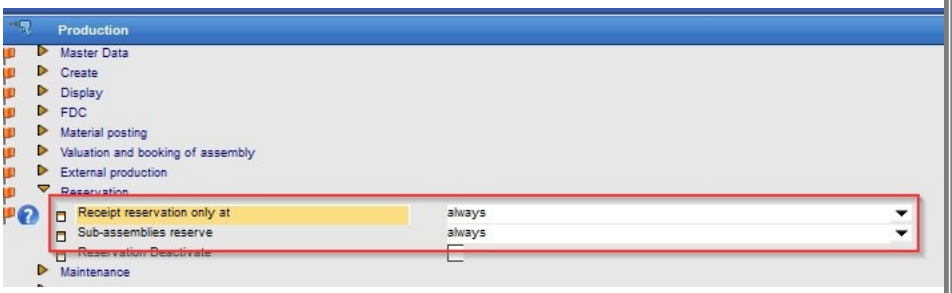
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	beas 9.1 PL: 08, *Field stl_planingsysnosubmaterial*

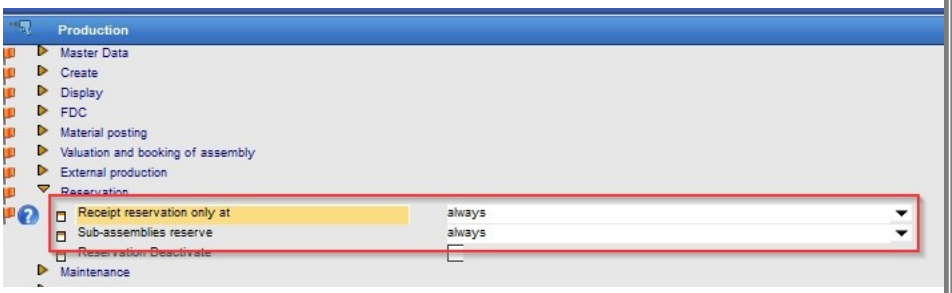
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
Synchronization	Determine the behavior at import

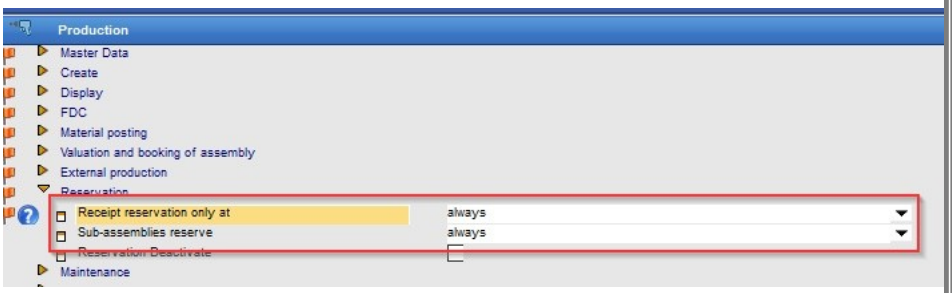
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	At BoM import normally all entries in the Bill of materials are deleted completely, and then re-imported.

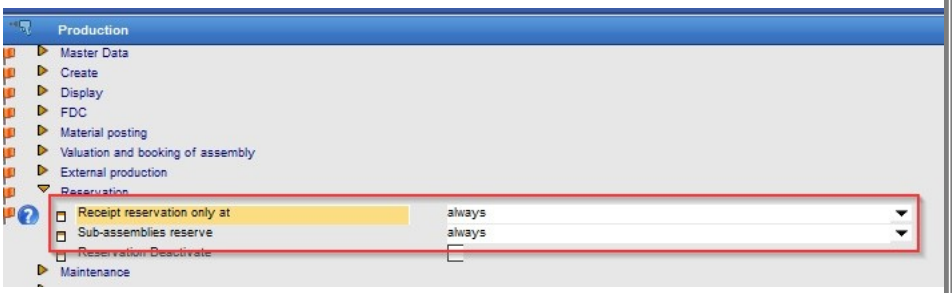
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	But with the field "synchronization" this behavior can be manipulated.

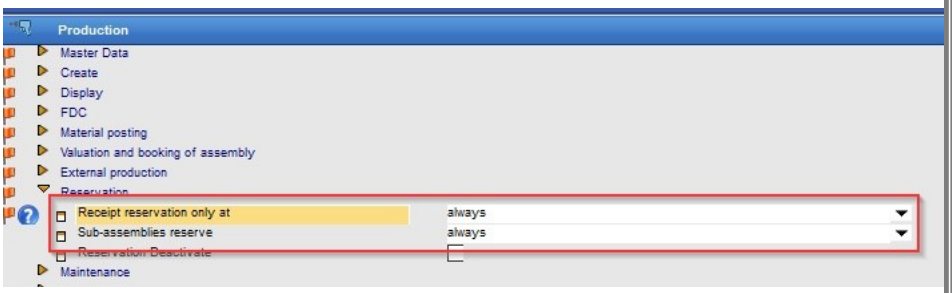
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	There are three different states that can be set. Yes, do not delete and no

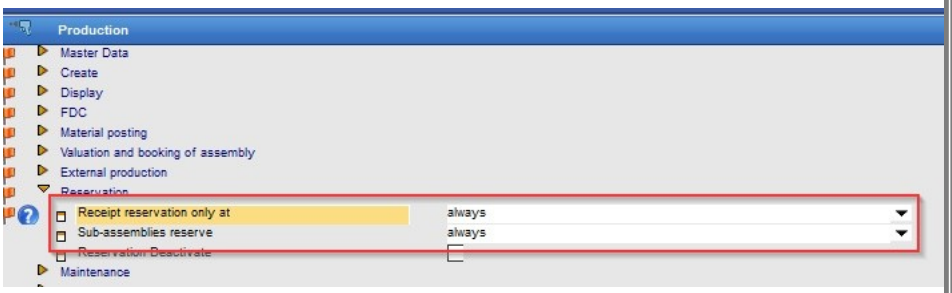
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	yes (0, delete and import*): Position is deleted before the import. The position is deleted if the position is imported again or not.

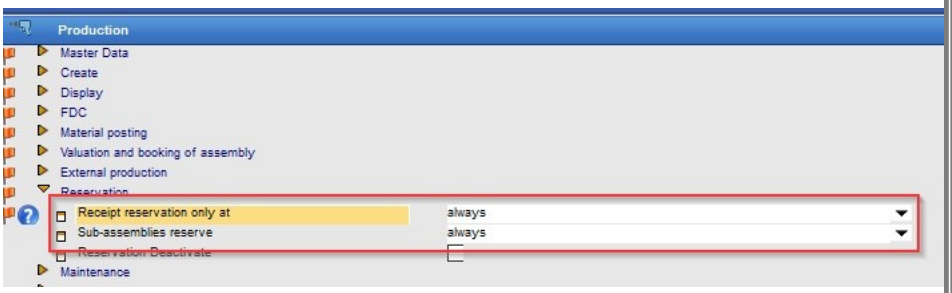
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	do not delete (1, synchronization on...): Position is not deleted before an Import, but it can be overwritten if there is an Import position with the same

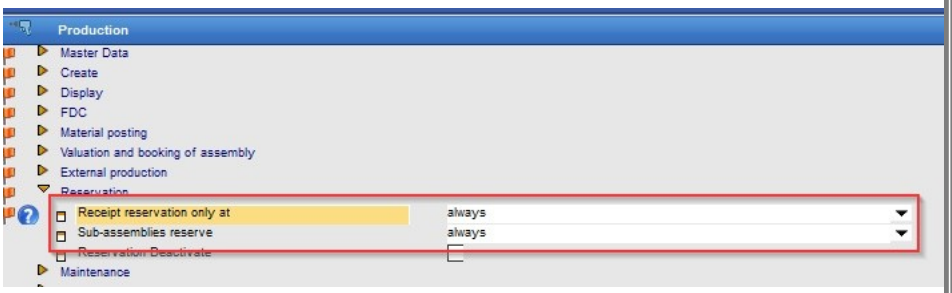
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Position-number.

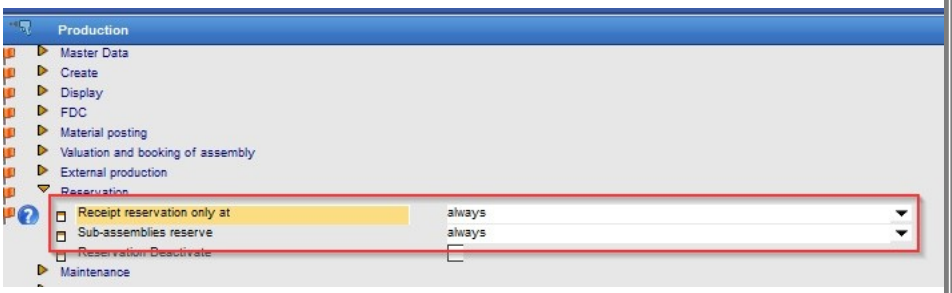
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	no (2, do not synchronize): Position is not deleted and cannot be changed. That means once the position is imported it stays unchanged. A new import

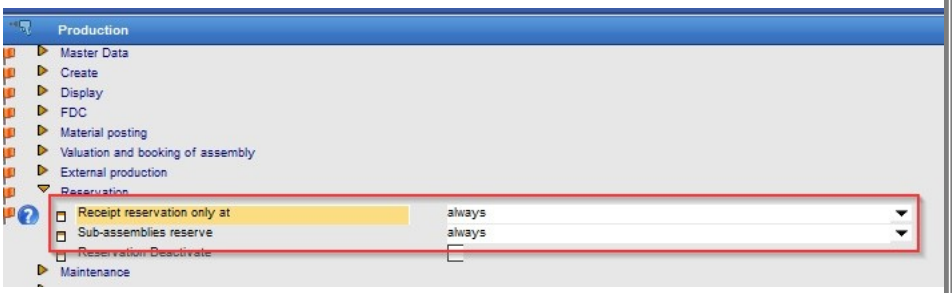
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	does not delete or change the Position. If an new import contains a position with this status set and there is already a position with this position-number,

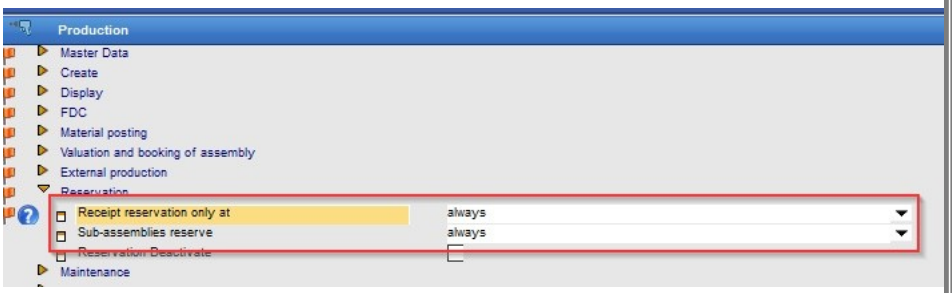
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	it is imported with a new number. **Warning**: Using this status requires careful attention**.**

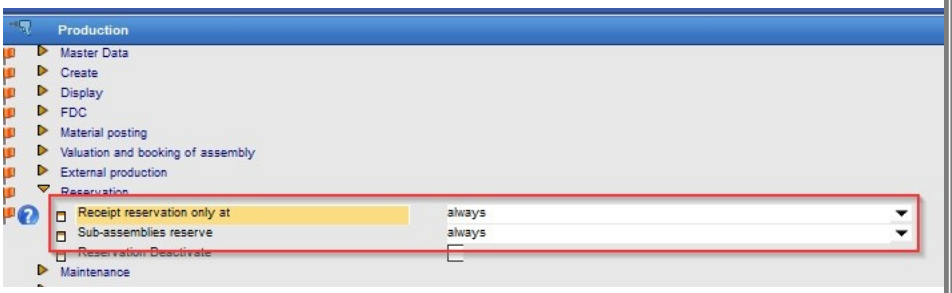
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	(*= Numbers and explanations are for the "Data Integration Hub")

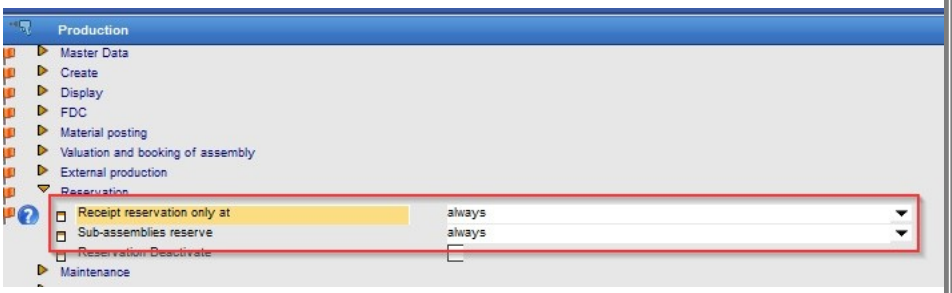
© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	Attention*:* The behavior of this flag is always related to the position in the list.

© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
	See Integration Hub

© 2026 Boyum IT Solutions A/S

Breakdown	Here you can decide whether sub-assemblies should be included in production or not. Only displayed with sub-assemblies. **no:** the sub-assemblies is not produced **always:** the sub-assembly is inserted into the work order with the specified requirement quantity. Inflow is treated as order related inflow. Manufacturing lot size is not considered. **only shortage:** a sub-assembly is created only in case that the requirement for the work order cannot be covered from stock. For this purpose, stock is reserved for the work order. Note: To determine the shortage, it is necessary to work with the reservation system. Receipt reservation only at = always Sub-assemblies reserve = always  ***Example***: in stock 10, requirement 50. For the work order, 10 are reserved firmly, the sub-assembly is created for 40. Other work orders cannot access this reserved stock. These 10 pieces can also not be issued or used by other operations. Note: This option is only available in master data, and only for items with breakdown ID "storage related". If the work order is created from a calculation, this option has no effect.
Icon / Color	Determine the icon and color of the BoM position to be displayed.
Receipt / issue	Only production: display the booked quantity.

© 2026 Boyum IT Solutions A/S

Bill of materials

Edit BoM

BoM positions

Edit BoM positions

BoM position - General

BoM position - Extended

BoM position - Costs

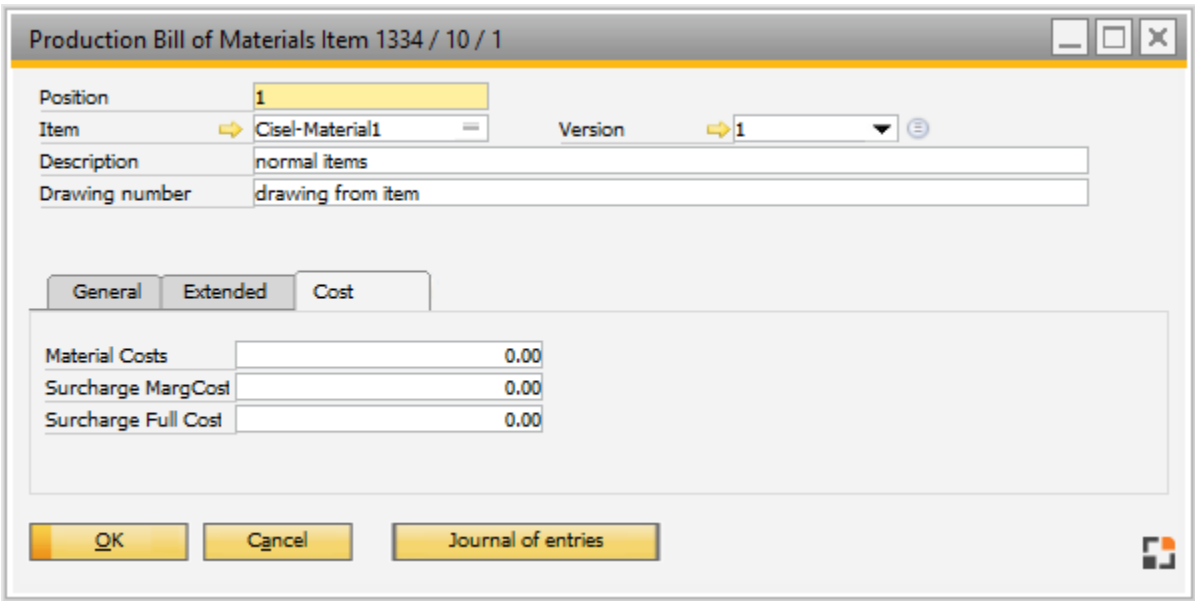
Only production – BoM position

The tab "Costs" is deactivated by default and can be activated in Configuration wizard – Production – Display

Field	Meaning
Material costs	Material costs for this BoM item Used as reference for planned costs. Pricing: ***See*** Configuration wizard – Precalculation – Material pricing If the work order is created from a Precalculation, prices from Precalculation are used. If changing the supplier or the quantity, a new pricing is performed. If special price lists are to be considered, these have a higher priority ***see*** Configuration wizard – Precalculation – Material pricing.
Surcharge marginal costs	Surcharge from master data (changeable) ***See*** Material group.
Surcharge full costs	Surcharge from master data (changeable) ***See*** Material group.

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Bill of Materials" tab > **Open** WO BoM position > "Cost" tab.

© 2026 Boyum IT Solutions A/S



8.2.4.5.1.3 Routing tab

Work order item

Edit work order item

Routing

Edit routing

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Routing" tab.

This tab displays all operations for the current routing.

With versions earlier than Beas 9.2 PL02 it was not possible to edit values directly in the routing list of a work order position.
Now you can change several values directly in the list:

1. Right-click on a Routing position and Go to Window settings.
2. Set the fields for editing directly in the list to "Changeable".

© 2026 Boyum IT Solutions A/S

Window Settings

#	...	Title	Changeable	Color	Visible	Bold	Italic	Sum	ToolTip
37		Beas_ftapl_tngk			☐	☐	☐	☐	
38		Beas_ftapl_tnvk			☐	☐	☐	☐	
39		Full Cost Rate			☐	☐	☐	☐	
40		Marginal Cost Rate			☐	☐	☐	☐	
41		Beas_ftapl_trtimetype_MargCosts_p			☐	☐	☐	☐	
42		Beas_ftapl_trtimetype_Full Costs_pz			☐	☐	☐	☐	
43		Time Type			☐	☐	☐	☐	
44		...			☑	☐	☐	☐	
45		Op. sequ.	☑		☑	☐	☐	☐	
46		Op. sequ. Internal			☐	☐	☐	☐	
47		Original Position		0	☐	☐	☐	☐	
48		Closed	☑	0	☑	☐	☐	☐	
49		Type	☑	0	☑	☐	☐	☐	
50		Description	☑		☑	☐	☐	☐	
51		Operation	☑	0	☑	☐	☐	☐	
52		Resource	☑	0	☑	☐	☐	☐	
53		Time Recording ID.		0	☐	☐	☐	☐	
54		Date Time Recording	☑	0	☑	☐	☐	☐	
55		Setup time Precalculation	☑	0	☑	☐	☐	☐	
56		Setup time Capacity	☑	0	☑	☐	☐	☐	
57		Machine Time / unit	☑	0	☑	☐	☐	☐	
58		Secondary time	☑	0	☑	☐	☐	☐	
59		Mach+Labor Time/unit	☑	0	☑	☐	☐	☐	
60		Use factor	☐	0	☑	☐	☐	☐	
61		Work Steps	☐	0	☐	☐	☐	☐	
62		Overlap limit		0	☐	☐	☐	☐	

3. Click the "**Update**" button, then "**OK**".

4. Returning to the Routings tab in the edit window the changes are now visible, and the selected fields are editable:

Work Order Pos. NEWH000168 (1219 / 10)

Assembly | Bill of Materials | Routing | Calculation

#	...	Op. sequ.	Closed	Type	Description	Operation	Resource	Date Time Recording	Setup time Precalculation	ne Capacity	e Ti
1		40	☐	EX	Version 2		i1001		0.000	0.000	

Window fert_arbplanpos_browse.psr

5. Click on a row to open the operation for editing.

© 2026 Boyum IT Solutions A/S

Changes in the routing for this work order do not change the master data of the assembly. Data is copied from master data and can be changed for the individual work order.

Note: If the work order position has been closed, or "Allow changes" was disabled, or due to lack of authorizations, all editing functions are disabled.

Right-click menu/Buttons:

Function	Meaning
Open	Edit work order item (double click).
Search	Opens the search menu.
New	Create new work order item, open the editing window.
Copy	Copy item.
Delete	Delete item.
Reports	Opens a list of reports.
Window settings	Opens window settings. Additional columns can be displayed. ***Example:*** "routing position" if you set this to changeable, you can choose operations from the list by drop down.
Time receipts	Opens a list of time receipts for this operation.
Change Log	Opens the Change Log for this work order.
renumber	Renumber the WO positions
Save sorting	Save sorting.
Support	Opens last error messages.

back to Work order position.

Work order item

Edit work order item

Routing

Edit routing

External operation

General

Costs

Scheduling

Extended

© 2026 Boyum IT Solutions A/S

Tools

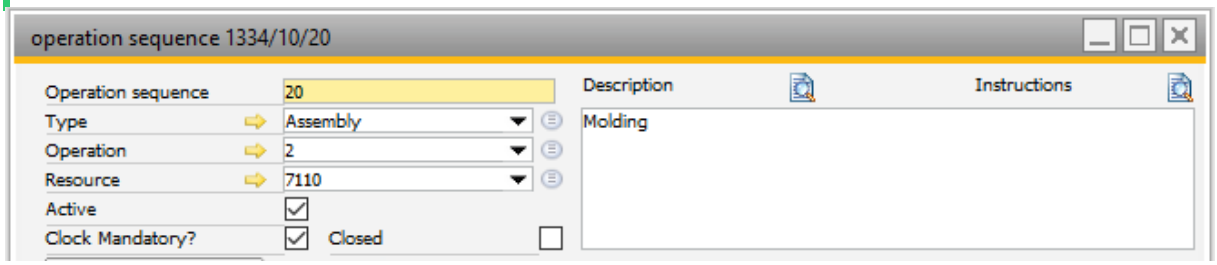
Utilities

Parallel

Alternative

Attachments

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Routing" tab > **Open** Routing position.



Window arbplanpos_edit.psr

Header

Field	Meaning
Operation sequence	Consecutive position number, representing the sequence of the positions (nor for operation definition). Normally in increments of 10 to allow intermediate positions to be added. This behavior can be set in options. Note: For Phantom items routing positions are always renumbered - even when the parameter is off.
Type	Select a type from operation catalog.
Operation	Reference to operation catalog. This can be used to adopt the information stored in the master data/operation, thus accelerating input. Changing an operation, values (data of cost elements) are loaded from operation catalog master data.
Resource	The work station, personnel group, machine or machinery group or also external operation supplier or person on or through which the operation is conducted. Changing a resource, data of cost elements is loaded from the master data of the selected resource. ***See*** Resource

© 2026 Boyum IT Solutions A/S

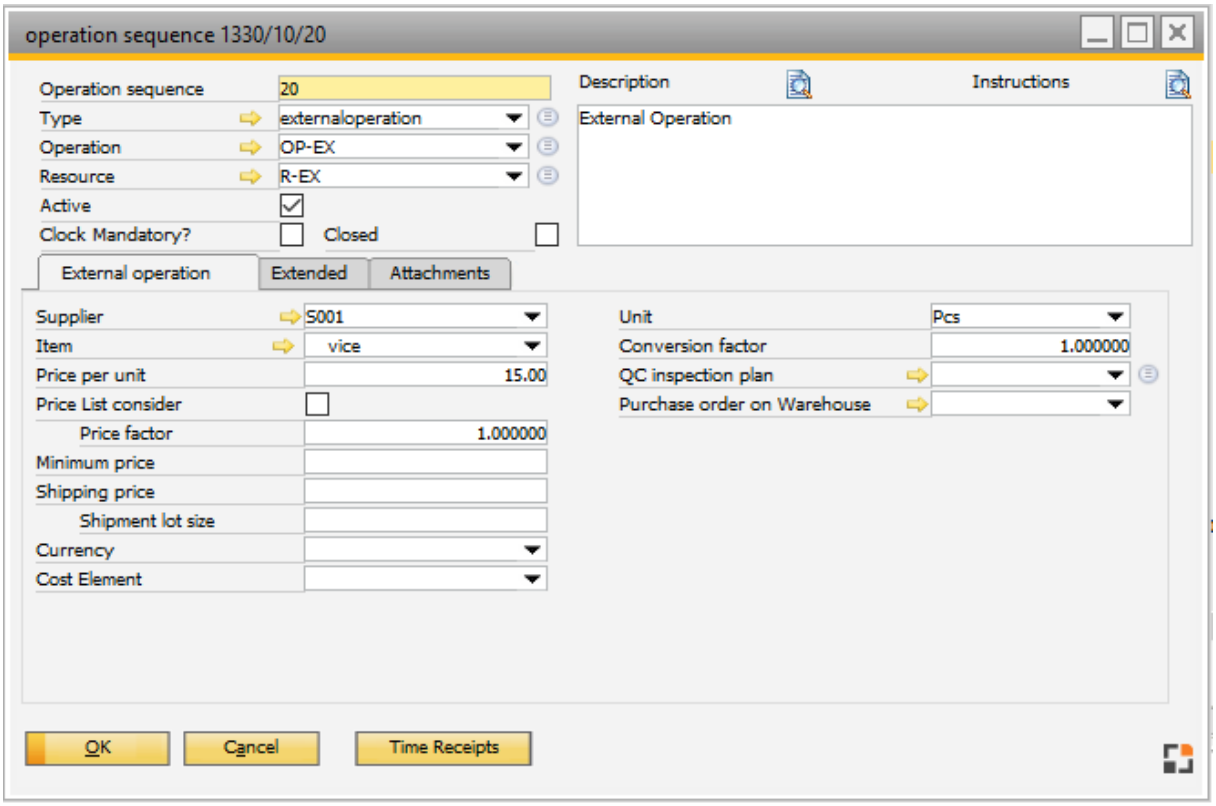
Clock Mandatory?	Defines whether clocking (factory data recording) is mandatory. ***See*** Edit routing. Last Routing position
Active	Operation active? If the operation is deactivated, it is treated as if "not existing" for all functions and will be displayed in grey in the structure view. As result, it will not be considered in - FDC logon/logoff - Pool administration - Determine first / last operation for backflushing - APS - MRP order recommendation - Post-calculation - even for planned costs
Description	Description of the activity. **see** routing description.
Instruction	Additional Instructions for this operation .

Buttons

Time receipts: The button opens overview on all time receipts for this operation sequence.

Production > Work Order > **Open** WO position > **Open** operation > "External operation" tab

© 2026 Boyum IT Solutions A/S



Window arbplanpos_edit.psr

The "External Operation" tab is only visible if an external operation has been selected as a resource.

An external operation can consist of a pure service (the entry is then on this page only) and / or possess a proprietary throughput time and debit the capacity of a resource, as well as allow costs to arise (entry in General tab)

For further information ***See*** External production.

Field	Description
Supplier	⊟ Default supplier Assign the supplier linked to this external operation If specified, it is loaded by default in purchase orders or quotations. Pricing considers the special price list of the supplier if no price was specified for unit price. Suppliers are available depending on settings "select supplier" Clicking on the ➪ will open the Business Partner Master Data window. Note: By default, Beas allows to predefine an item for purchase

© 2026 Boyum IT Solutions A/S

Field	Description
	order creation. If the field is filled, it is protected in the purchase order. Pricing depends on **Production > External production > Purchase and provision.** - Pricing for purchase - supplier selection - consider special price list
Item	Assign a non-warehouse item to manage all external operation transactions like purchase orders. If no unit price is specified, pricing is carried out for this item. Clicking on the will open the Item Master data window. Specify service item Only non-inventory-managed items are used for purchasing a service. No material is posted except when provision parts are used. Pricing: ***See*** Pricing for purchase. In purchase, the unit of the item is used. Note: The system ignores UoM Group definition of this item. It is always allowed to choose any UoM for the routing position.
Price per unit	Set the price for purchase orders. Service price per price factor. ***See*** Pricing for purchase.
Price List consider	Check box. Allows Beas to consider pricing, extended price lists, special price lists and blanket orders. ***See*** Pricing for purchase.
Price factor	Include a factor to be used according to the price per unit defined. **Note**: If "Price list consider" is enabled, "Price factor" is hidden, as prices in price list are always stored per Inventory UoM of the service item.
Minimum price	Set a minimum price for the purchase order If the total unit price is below the minimum price, the value specified

© 2026 Boyum IT Solutions A/S

Field	Description
	here is used. ***Example***: €10 € per 1000 units, minimum €30. For 1000 units €30 is calculated (minimum price). For 10000 units €300 is calculated (unit price higher than minimum price).
Shipping price	Transport surcharge Set the transportation price to be included in the total price. Payable per transport lot size. ***Example***: €10 € per 1000 units, minimum price €30, transport price €100, lot size 5000 1000 units are €30 + €100 transport price = 130 € For 10000 units: €300 € €200 € transport price (2 x lot size) = €500 .€
Shipment lot size	Set the lot size that can be shipped. ***See*** transport price. ***Example:*** 10€ per 1000 units, minimum price 30€, transport price 100€, lot size 5000 1000 units are 30€ + 100€ transport price = 130€ For 10000 units: 300€ + 200€ (transport price x 2 lots) = 500€
Currency	Specifies the currency in which the amounts are expressed. If no currency is used, the local currency is used.
Cost element	Change the account in which the standard costs from the external operation is booked. If a cost element is stored, and in the cost type an account is stored, costs arising at goods receipt are booked to the WIP account. ***See*** External operation goods receipt, Cost types.
Unit	Unit in which the purchase is registered Usually you purchase in units of the service item as prices are stored in this unit. ***See*** next Field description in this table titled "Conversion factor".
Conversion factor	Conversion factor between time receipt unit and assembly unit In the purchase the warehouse unit of the service item is usually

© 2026 Boyum IT Solutions A/S

Field	Description
	indicated. There you can define the conversion factor between consumption unit of the item to be produced and the warehouse unit of the service item. ***Example***: Production UoM of the assembly: `pieces` Inventory UoM service item: `kg` Conversion factor: `3` For a requirement of `60 pieces, 20kg` of service items `(60 : 3)` needs to be purchased. **Note:** By default, Beas allows to predefine a conversion factor for purchase order creation. If the field is filled, it will be protected in the purchase order. For more Information ***See*** Collective Purchase Order – Quantity.
QC-inspection plan	Define if this external operation has to be inspected by the quality control team when producing the item or performing the task and link to stored QC-inspection plan. Clicking on the opens the the editing screen of the selected plan, and clicking the opens the list of QC inspection plans.
Purchase order on Warehouse	Define the warehouse for purchase order. If you create the purchase order, the system takes this warehouse for the purchase order. This is the own warehouse for the invoice or/and ship back warehouse. For more Information ***see*** Collective Purchase Order.

Additional fields in Precalculation

Warehouse	Determines the warehouse of the service item. This is required for pricing, if you work with "price per warehouse".
from Quantity / Price	Only visible if "consider price list" was activated. Up to 4 quantity-

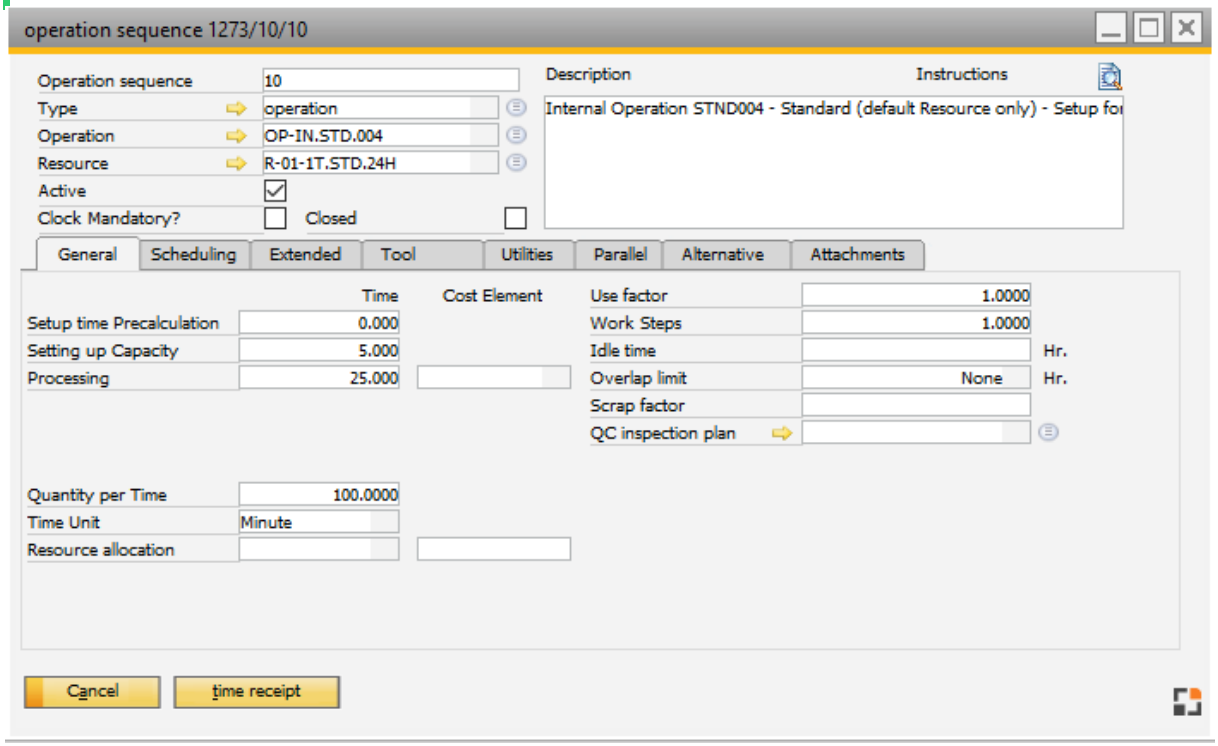
© 2026 Boyum IT Solutions A/S

Warehouse	Determines the warehouse of the service item. This is required for pricing, if you work with "price per warehouse".
	dependent prices can be entered. Quantities are given in units of the service item.

See

Collective Purchase Order

Production > Work Order > **Open** WO position > **Open** operation > "General" tab



Window arbplanpos_edit.psr

Field	Description
Setup time	Setup time for Pre- and post-calculation The setup time in hours or minutes is taken into account in production and costing analysis as well as in Precalculation. Note: Designation can be changed in Configuration wizard – Resource –

© 2026 Boyum IT Solutions A/S

	Definition Time types. **Precalculation and Lot size** Setup time is calculated per calculation lot size. ***Example:*** Lot size 10, setup time=5 minutes, calculated: 19 pieces Result: total setup time 10 minutes or 0,52 per piece If a sub-assembly has its own calculation lot size, it will be taken into account. ***See*** Precalculation – View and lot size. **Production and lot size** If a work order is created automatically (e.g. via order recommendation report or sales order to work order, a separate work order position per item-lot size is created. The setup time indicated here refers to the lot size in item master. **Separate reporting of setup times** If "Extend to cost elements" was set to 2 or more in the Resource, the setup time can be reported separately via FDC and evaluated separately in calculation. Enter the cost element to which the accrued costs are posted.
Setup time Capacity	The set-up for scheduled capacity in hours or minutes is considered in capacity planning and throughput time calculation. This setting has an effect on calculation of target time.
Mach+Labor Time/unit	The actual processing time per work step. The field designation can be changed in **Configuration wizard > Master Data > Resources > Time types** or via Ctrl+ double-click in the text field. Times are specified in units "Times in ..." (hour/minute) and refer to "Times per .. " finished parts taking account of the utility and work steps in units of usage of the assembly. The Cost Element field specifies the cost element for which the planned or accumulated costs should be totaled, facilitating detailed analysis. Tools that determine the throughput time and also alternative operations

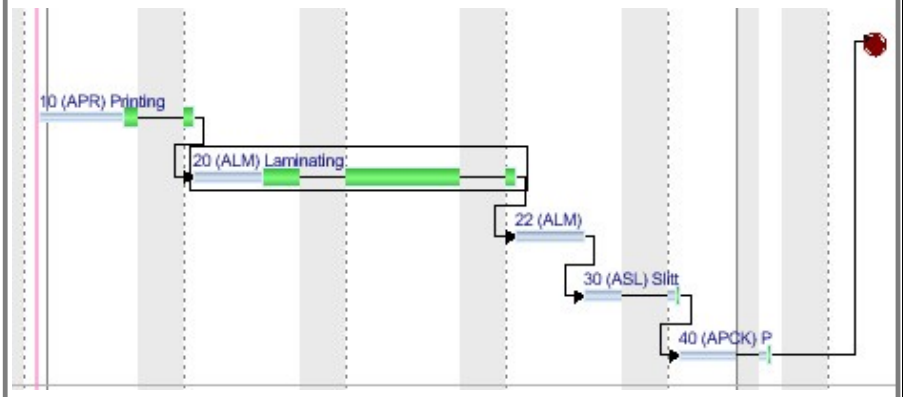
© 2026 Boyum IT Solutions A/S

	can only influence the job time (processing time). ***See*** Calculation of planned time.
Secondary, main time	Secondary time and main time. In addition to the job time, two other secondary processing times can be specified if "Extend to cost element" is set to 3 or 4 in the resource. The secondary processing times are designated in Configuration Wizard or via Ctrl+Double click in the text field. ***See*** Concept Time types.
Quantity per Time	Determines the assembly quantity the time refers to. Enter to which assembly quantity (Production UoM) the time refers to. Thus you can indicate even short lead times correctly. ***Example:*** Lead time 0,0001 minutes per piece To make it more readable, you can enter 1 minute per 10000 pieces If it is a fixed time, enter 0 at "quantity per", that means this time is needed only once per lot size. Same effect as for setup time. ***Example:*** Lot size 10 Production 50 pieces Time = 2 Minutes per 0 Total time: 5 lot sizes a` 2 minutes = 10 minutes **Fix Quantity: Quantity per Time = 0** This means you need the time per lotsize ***Example***: 3 Minute per 0, you produce 100 Pcs. The System calculates 3 Minutes for all 100 Pcs. For additional information on lot sizes ***see*** Precalculation – Display and lot sizes.

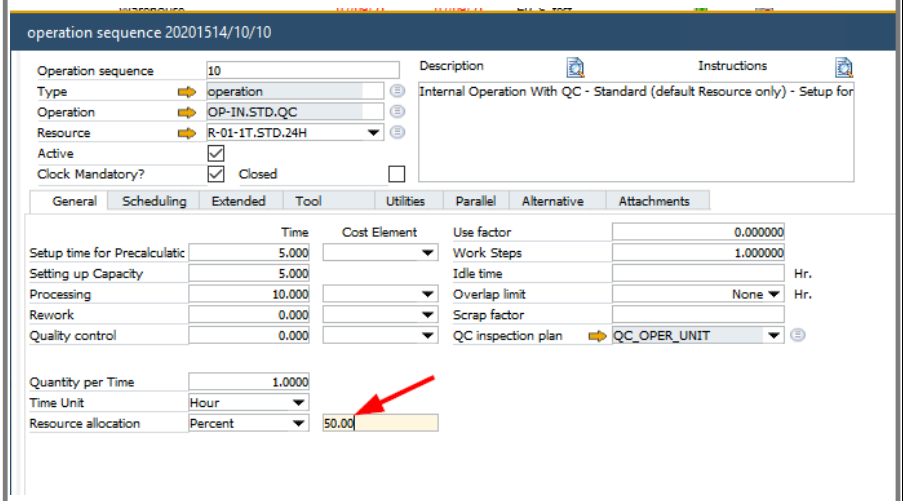
© 2026 Boyum IT Solutions A/S

Time Unit	Unit of time in which times are stored – hours or minutes. The default can be stored in the options.
Resource Allocation	The extent of utilization of a resource.

Determines the utilization of the available resource capacity.



See Default Calculation type: Reallocate forward.



Type	Description
Number	Number of resources used (subject to the prerequisite that the resource exists more than once, e.g. if the resource is a group of persons. Where 2 is input for 5 persons, the resource of 2 persons is scheduled at most. Note: If this is not 1, the system uses the calculation method Exploit Full capacity for this routing position.
Percent	Percentage utilization of the resource.

© 2026 Boyum IT Solutions A/S

Type	Description
	Example 1: Group of 6 persons. At a utilization of 50% the resource of 3 persons is used at most. ***Example 2***: Machine which is only partly utilized. To extend the throughput time, a lower utilization can be specified here. If 20% is specified, throughput time is quadrupled while costs remain the same. Note: If this is not 100%, the system uses the calculation method Exploit Full capacity for this routing position.
Simple	Default setting: For "Simple", only one resource is 100% utilized.

Note:

For Detailed planning (i.e. a resource should be planned to the minute) the option must be set to "Simple".

Operation active

Determines whether the operation is active and can be used

You can set here whether the operation should be included. Apart from Yes/No, a condition is also possible, such as production quantity greater, in between or smaller than a specification defined here.

Example: The operation in which a small machine has been defined should only be used when the production quantity is smaller than 30. If it is greater, an operation should be used in which a large machine with a respectively higher set-up time but smaller mach+labor time is stored. Quantities refer to "per units of usage" of assembly.

Note: This switch is only visible if in the Configuration wizard – Routing – Operation field show is activated.

Operation catalog:

In operation catalog this field is not available.

Routing:

In routing it can be set up depending on the quantity:

© 2026 Boyum IT Solutions A/S

Yes: Always active.
No: Not active.
Quantity bigger: Only active if quantity exceeds the given value.
Quantity smaller: Only active quantity falls below the given value.
Quantity between: Only active if the quantity is between two given values.

Thus you can activate a routing depending on the quantity.

Example:
Depending on the quantity, a certain resource is to be used.

until 10 kg (active quantity < 10 kg): Resource "small bowl", planned duration: 10 minutes
from 10 kg (active quantity > 10 kg): Resource "big bowl", planned duration: 20 minutes

Field description
The value is saved in `aktivformel` with the following configuration `Id=Value1=Value2`
G = "Quantity bigger"
K = "Quantity smaller"
Z = "Quantity between"
N = "Not active"
J = "Active" (Default)

If the field is empty, the entry is treated as active.
Example: Only active for quantity between 10 and 20 "`Z=10=20`"

Note regarding variants / formulas

Only the following values may be returned here if a formula has been stored via the – icon: Y for "Active" or N "Not active". "bigger", "smaller" or "between" are not allowed via the formula system.

Generate Work order

© 2026 Boyum IT Solutions A/S

By defining value "N" in the formula, the system does not insert the routing position in the Work order. This is to be activated in **Configuration wizard > Production > Create >** Apply inactive work order sequence.

Generate Precalculation

In Precalculation the system always transfers inactive routing positions. *(beas 9.3 PL 2)*

Generate new Item (Product Configurator)

By defining the value "N" in the formula, the system does not insert the routing position in the Work order. This is to be activated in **Configuration wizard > Production > Product Configurator >** Apply inactive work order sequence *(beas 9.3 PL 2)*

Active field as Script

If you click in field Pos on – icon, you can define all fields with `setvar=e_[fieldname]=value`

If you want to disable a routing position, use the following script: `setvar=e_aktiv=N`

With *beas 2020.02* the Variable "`e_aktivformel`" is not supported.

Pre-calculation

In Precalculation there is an active-field and an "only if quantity" .... The second field has the same meaning as in routing. The operation is only active if the condition is met.

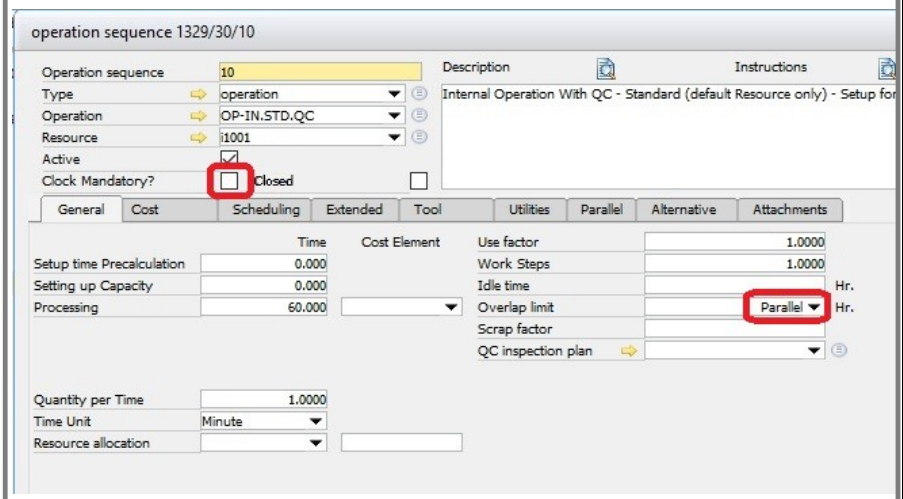
Work order

Only active routing positions are transferred to the work order. If you make a selection in the Configuration wizard to accept inactive routing positions as well, these will be transferred to the work order, and deactivated.
You cannot log on to these operations and they do not cause time

© 2026 Boyum IT Solutions A/S

	demand. This switch can be disabled manually.
Valid Period	In Precalculation Operation: Select the From - To dates of a validity period.
Use factor	Determines the use factor of the operation If several parts are produced with only one work step, the use factor is higher than 1. ***Example*** Cut a plate with a saw Duration: 1 minute Result: 2 plates, per 1 plate, only 30 seconds are required. Use factor in this case:2 ***Example 2:*** Injection molding with 12 nozzles. One process creates 12 parts, the use factor is 12 in this case. ***See*** Calculation of planned time.
Work steps	Works opposite to the use factor. Define how many work steps are needed for one part If several steps are needed to finish one part you can enter the number here ***Example:*** Tighten 10 screws. Per screw, 15 seconds are needed. Piece time is `15 seconds` Work steps `10` Total time `15 * 10 seconds = 150 seconds` ***See*** Calculation of planned time
Idle Time	Idle time in hours in which the semi-finished part must not be further processed, e.g. drying time, cooling etc. `|--- Transfer time --| |-- Planned time --| |--- Idle`

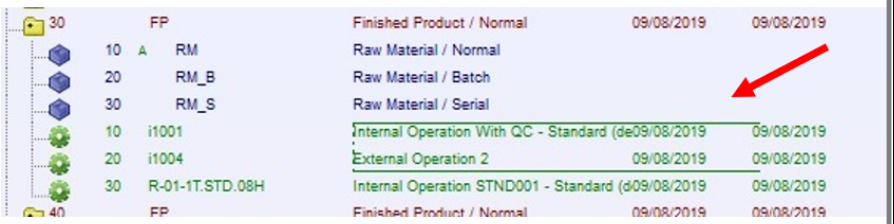
© 2026 Boyum IT Solutions A/S

	time---| The resource is available at this time for other orders. There are no arising costs . Forward Scheduling: The next sequence of operations can begin only after the idle period. The idle time should not be used for the extension of lead times. It is recommended to use transit time (***see*** resources). By default, factory calendar and resource calendar are not considered. These can be taken into consideration by changing the settings in the Configuration wizard.
Overlap Limit	The overlap time to the next operation is stored in hours. By using overlap settings, you can define the delay for the subsequent work sequence or define to start it in parallel. Unlike parallel resources, the subsequent work sequence can be moved freely. You can define the overlap limit in **Routing position > Overlap limit**. Choose "Parallel", "No" or insert the number of hours/minutes manually. If this is defined in Position 10, the next position will be parallel. This means: "Clocking mandatory" must be disabled, because you can start with Position 20 before closing Position 10.  *Window fert_arbplanos_edit.psr*

© 2026 Boyum IT Solutions A/S

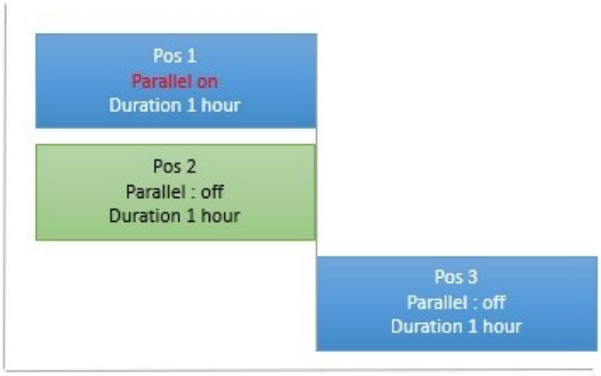
In Item Structure view you can see parallel / overlap limit information in this way:

In this example in Position 10 the "Overlap limit" is defined:

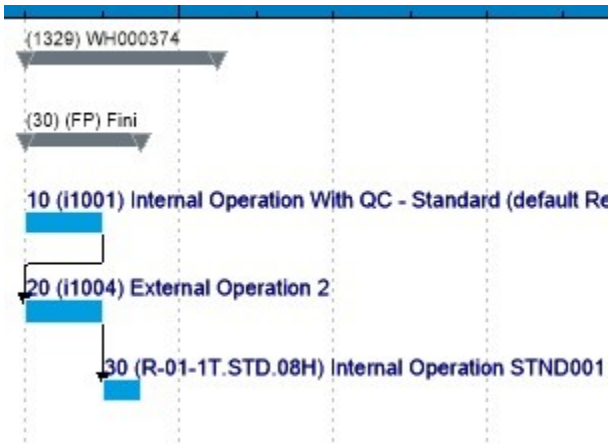
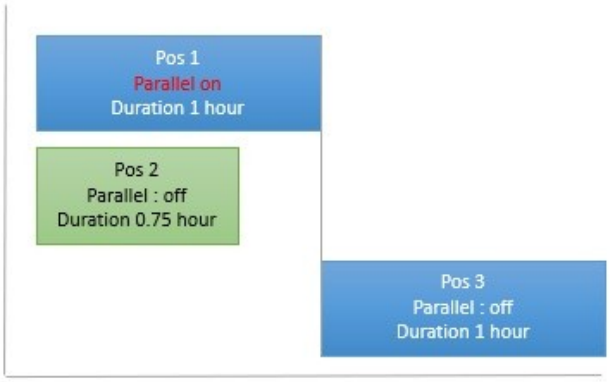
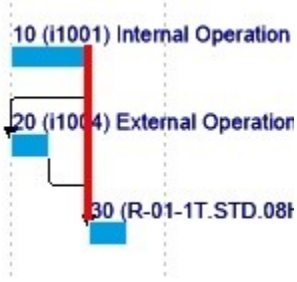


Note:

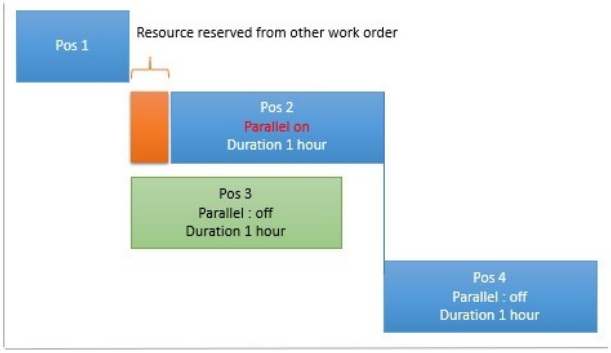
Overlap calculation runs correctly only with forward calculation.

Value	Meaning
0	No overlap.
Parallel	Next Routing position will have same or next possible start date Forward calculation The earliest start date of the following operation can be the same as the first one or the next possible start. The next possible start may also be earlier than the one of the previous operation. ***Example 1 :*** Pos 1 is defined as parallel, so Pos 2 can start parallel to Pos 1 

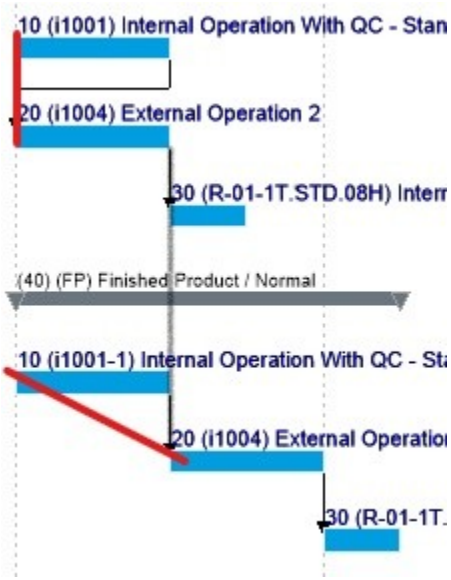
© 2026 Boyum IT Solutions A/S

Value	Meaning
	View in Beas  Start of 3. routing position is after the end of the latest parallel routing position. ***Example 2***: Pos 2 needs less time than Pos 1.  View in Beas  Start of next routing position is always after the end of the latest parallel routing position.

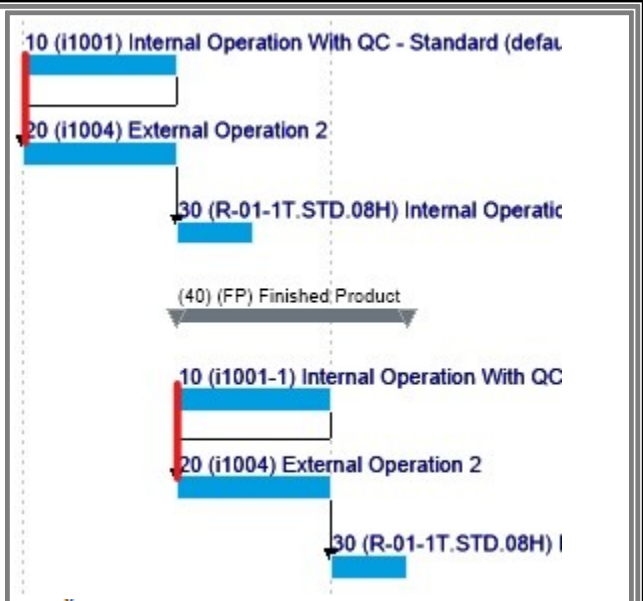
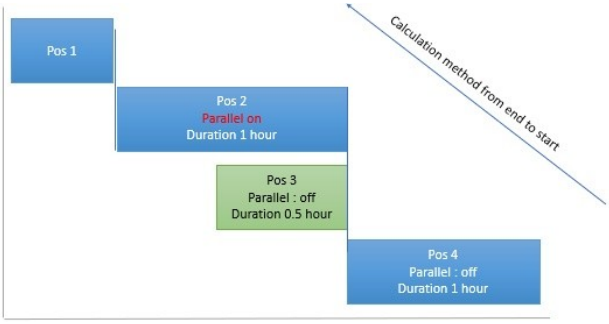
© 2026 Boyum IT Solutions A/S

Value	Meaning
	Example 3: *Scenario:* Position 3 is parallel to Position 2, but after Position1 finishes, resource for Pos 2 is not available. For example Resource is reserved by another work order. If the resource is not available immediately, the routing position starts at the next available time. In this example, the position 3 can start **BEFORE** the first position:  ***Example 4:*** Scenario: 2 work order positions. Both WOs have defined the 2. operation as parallel. Start date is same. First operation has different resource, but the second parallel operation has same resource for both WOs. Explanation: The parallel resource uses the start date, on which the resource is free. For the first WO this is the time when operation 1 starts. In the second work order position you see that the start date of second operation does not start together with the first operation. The reason is that WO 1 already occupies the

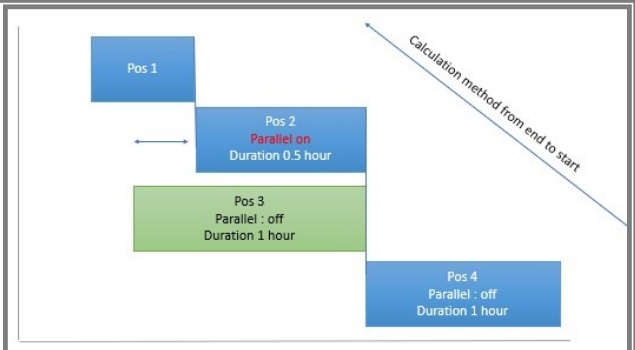
© 2026 Boyum IT Solutions A/S

Value	Meaning
	resource. So the second operation of WO can only start after the operation 2 of WO 1 stopped. In that case the the second operation does not start parallel but delayed:  You can set parallel-defined operations to always run in parallel in the Configuration wizard. Result with setting "Overlap limit = fix" Start date of Pos 40 on Resource i1001-1 start later, because the next resource i1004 is not available before.

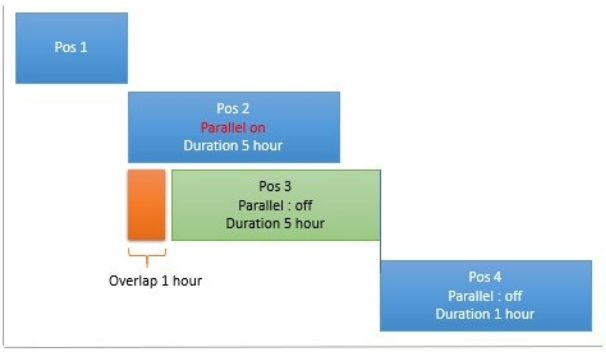
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 ***See*** APS fix parallel routing positions Backward Calculation The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration. Parallel resource: The system calculates the following:  If duration of Pos 2 is less than that of Pos 3, then Pos 1 ends with the start of Pos 2.

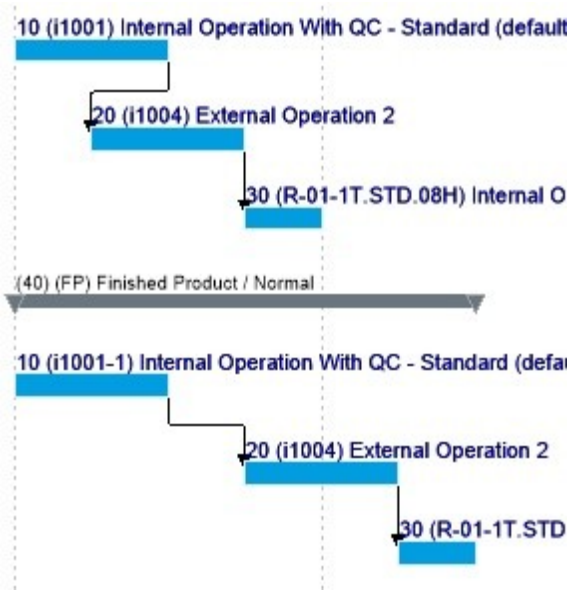
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 In this case, the system is working different from forward calculation. If you work with backward calculation, the first parallel position must have the longest duration. Differences between parallel resource and parallel operation Parallel resource: - is always parallel - 100 % - Parallel resource have always same start / end time - Use Parallel resource, if you don't need this resource 100% (Example: A worker is the "parallel resource", but is working on 4 machines in parallel. In this case he must invest only 25% for his time for this operation) Parallel Operation: - is not always parallel. Only if the resource of parallel operation is available - can have different work time - can work with resource optimization - can have own parallel resource, tools and so on
> 0 Overlapping	Overlap of the following routing position or assembly if it is the last routing position. Forward Calculation

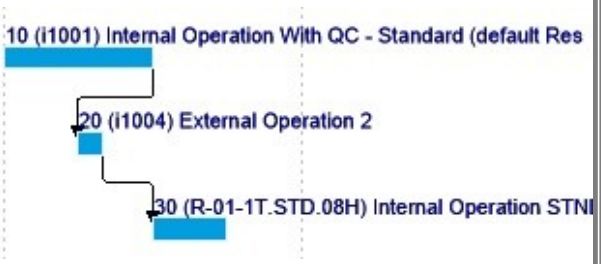
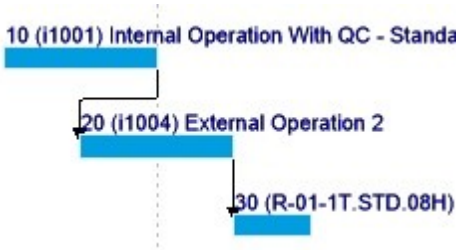
© 2026 Boyum IT Solutions A/S

Value	Meaning
	The Overlap time define, when the next operation can be started. The time, which you define, is the delay in hours/minutes, until the next operation starts. The defined time is the earliest time. **Example:** 2 hours means, the next operation can start - 2 hours after start current operation or after end of this current operation (if the current operation is less than 2 hours) - if resource of next operation is not available after 2 hours, then at the time, when the resource is available. **Example:** In this scenario the start date of the third routing position is the real start date of the second routing position + defined overlapping time in hours, here 1 hour.  An overlap is specified in hours – based on a 24-hour day. The specified overlap always applies to the following routing position. The overlap time is not bound to a resource calendar. This is purely hour-based time excluding time reservations or other factors.

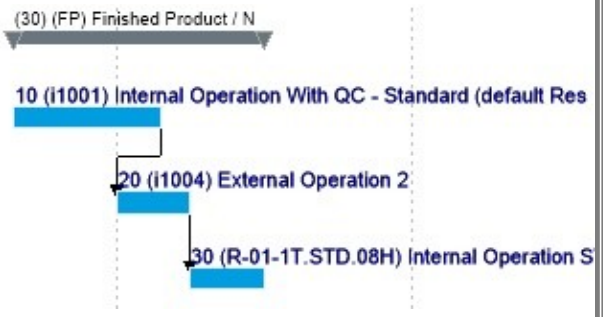
© 2026 Boyum IT Solutions A/S

Value	Meaning
	The overlap time begins AFTER the transit time. The next routing position cannot possess a transfer time, otherwise it will be appended to the transfer time. ***Example:*** Scenario: 2 Work orders, same routing plan. In first operation different resources. Overlap limit = 0.5 hours First work order: Position 20 start 0.5 hours after start of position 10 Second work order: Position 20 start later, because the time is reserved from first work order 

© 2026 Boyum IT Solutions A/S

Value	Meaning
	If you want, that the overlap have always exact the same overlap time, a setting is available. ***See*** Configuration wizard ***Example:*** Scenario: Work time of second work order position is less than the work time of the first operation. In the first operation, overlap time is defined:  In this case you're ready with second routing position before you're ready with first routing position. But you can start with third routing position only, if all parallel / overlapped routing positions are done. In this case after end of Routing position 10. Backward calculation In a simple example the result of backward calculation is same as forward calculation Example: Work time 1 hour, overlap 0.5 hour in first operation  But is the duration of second operation is not same as first operation, then the result is different

© 2026 Boyum IT Solutions A/S

Value	Meaning
	to forward calculation: The system calculate backward: First 30, then 20 - from 20 the overlap is calculated (Start time from Operation 20 + Overlap time from Operation 10 = End time from Operation 10.  Alternative for backward calculation is "forward late as possible" Note: The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration.

Note:

The last operation corresponds to the last "reportable operation".

If an overlap is also configured in the last operation, Beas does not recognize this as the last operation.

However, the automatic assembly receipt or adjustment of the backflushed material depends on this.

Overlapping using assemblies

Assemblies can also overlap in an order-related structure.

Example:

```
        |- Main assembly -|
|--- Subassembly -|
```

© 2026 Boyum IT Solutions A/S

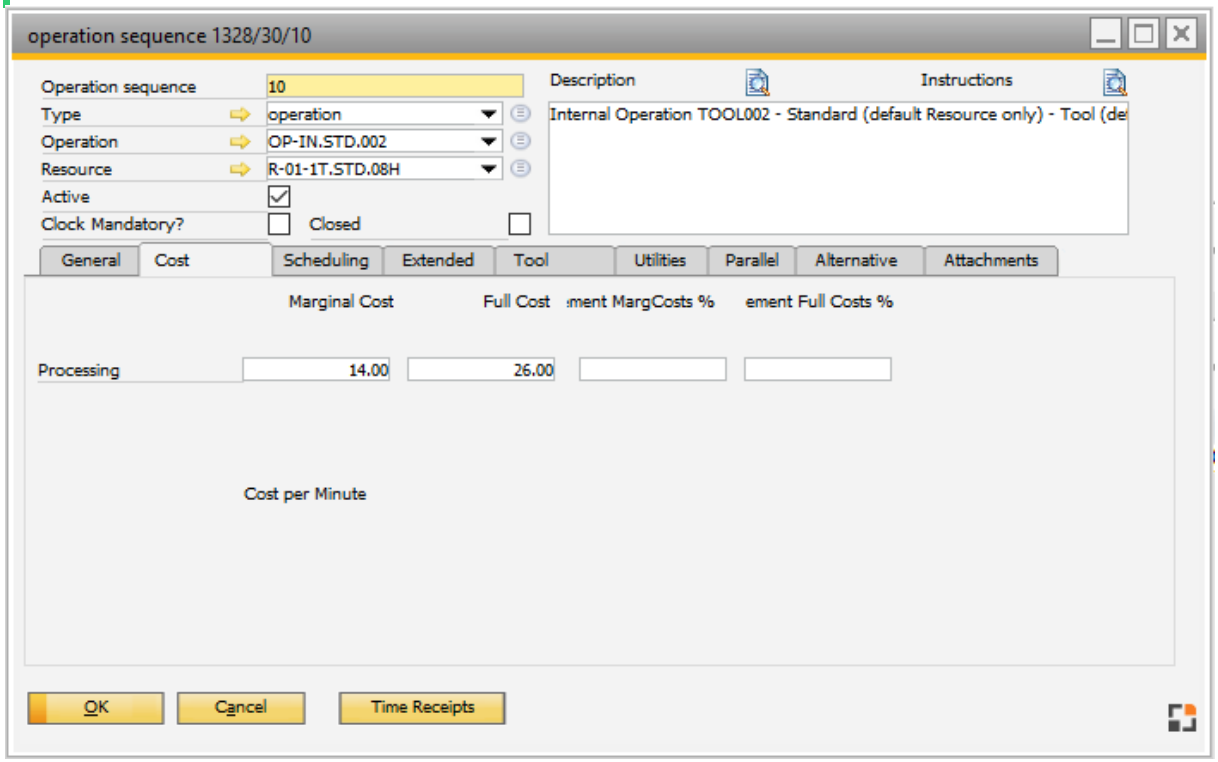
	Start date of the main group is normally the end date of the last routing position of the subassembly. If this last routing position has an overlap, this is also considered. ***Important***: If an overlap is entered in the last routing position, it is no longer recognized as the "last routing position" in the backflushed posting transactions.
Scrap Factor	Scrap factor related to this routing position in % In this field an additional Scrap factor on routing position level can be defined. This is calculated as (Mach+Labor) / 100 * Scap Factor Example: Production 8 Pcs Setup Time = 60 Minute Labor Time = 10 Minute Scrap Factor = 5 % Total Time = 60 + (8 * 10) + (8 * 10 : 100 * 5) = 144 Min.
QC Inspection Plan	Store a QC-inspection plan in operation If a QC-inspection plan is stored, – depending on the settings – a QC order will be created. ***See*** Configuration wizard Measured values can be registered via QC-order, Terminal or WEB-Apps. If respective rules are defined, the release of the next operation may depend on that. ***See*** Configuration wizard – FDC – login rules ***See*** QC-inspection plan Quality control order
Number of payslips	Information field – if applicable, for information on number or pay slip

© 2026 Boyum IT Solutions A/S

	printouts.
Expand to Cost Elements	In Precalculation Operation: Select the number of cost rates. The default is one cost element (processing time), which can represent a mixed calculation of machinery and personnel costs. Select the number of cost elements you are to use in Precalculation, update the window, and the selected cost elements appear in the Costs tab. ***See*** more details in Costs.
Value Labor costs separately	In Precalculation Operation: If this option is activated, a separate cost rate can be stored for personnel costs and the "Labor cost rate" field appears in the Cost tab. ***See*** also Costs.

For job time and the personnel cost rate you can enter marginal costs, full costs and cost types at full and marginal costs.
Costs are plan costs (Precalculation values) from the moment the work order or Precalculation was created. Order time receipts are created always at current resource costs.

Production > Work Order > **Open** WO position > **Open** operation > "Cost" tab



Window arbplanpos_edit.psr

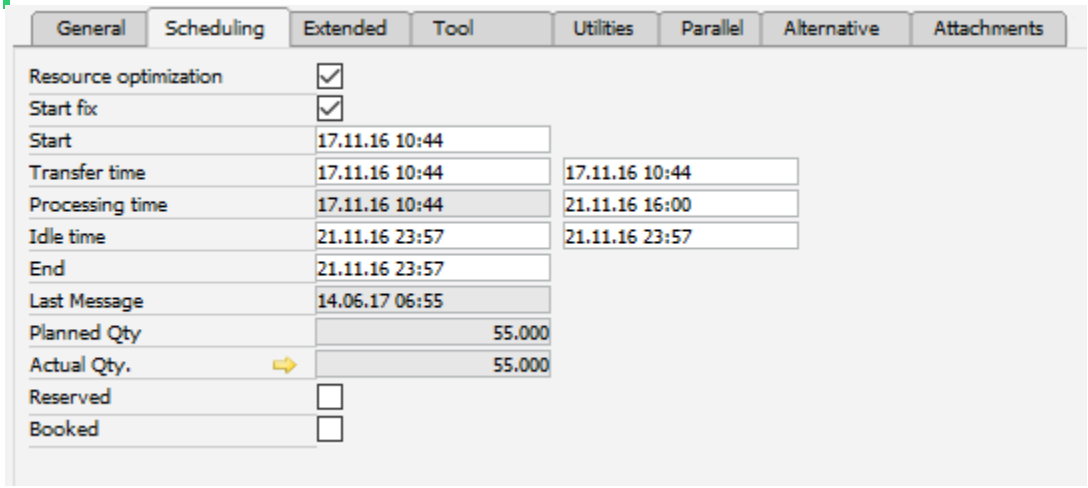
© 2026 Boyum IT Solutions A/S

By default, this tab is hidden. It is visible only, if activated in Configuration wizard

see Resource costs

back to Production Routing.

Production > Work Order > **Open** WO position > **Open** operation > "Scheduling" tab



Window fert_arbplanos_edit.psr

Field	Meaning
Resource optimization	Check to enable resource optimization
Start fix	If active, the start date of the operation is fixed, for example in APS. A re-scheduling does not move this operation.
Start	Given start date from-to
Transfer time	Transfer time from -to ***See***: Transfer time and idle time
Processing time	Planned processing time of the operation This date is used to calculate the requirement date in MRP.
Idle time	Idle time from-to ***See:*** Transfer time and idle time

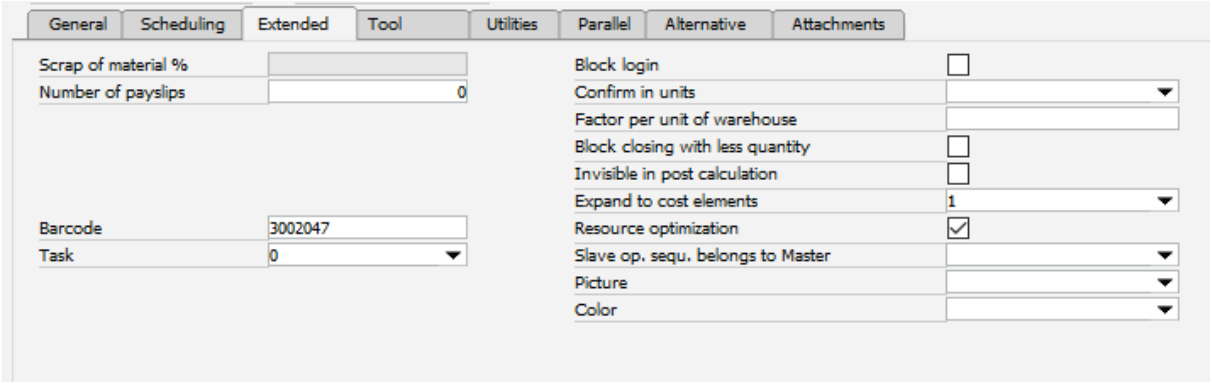
© 2026 Boyum IT Solutions A/S

	Configuration wizard - Capacity planning - Idle time
End	End date
Last Message	Date and time of last time receipt
Planned qty	Planned quantity
Actual qty	Actual quantity
Reserved	If the check box is active, material has been allocated for this operation. Only for information purposes.
Booked	If the check box is active, material has been posted already. Only for information purposes.

back to Production Routing.

Production > Work Order > **Open** WO position > **Open** operation > "Extended" tab

Extended settings for an operation.



Window fert_arbplanos_edit.psr

Some fields are used from Routing – Extended. The black fields contain the extended information for this operation

Field	Meaning
Scrap of Material %	Material scrap%.
Number of payslips	Information field - may be used for printing payslips.
Barcode	Unique number for time receipt. This number can be printed as bar code on the work order. Using this bar code you can logon to this operation in terminal

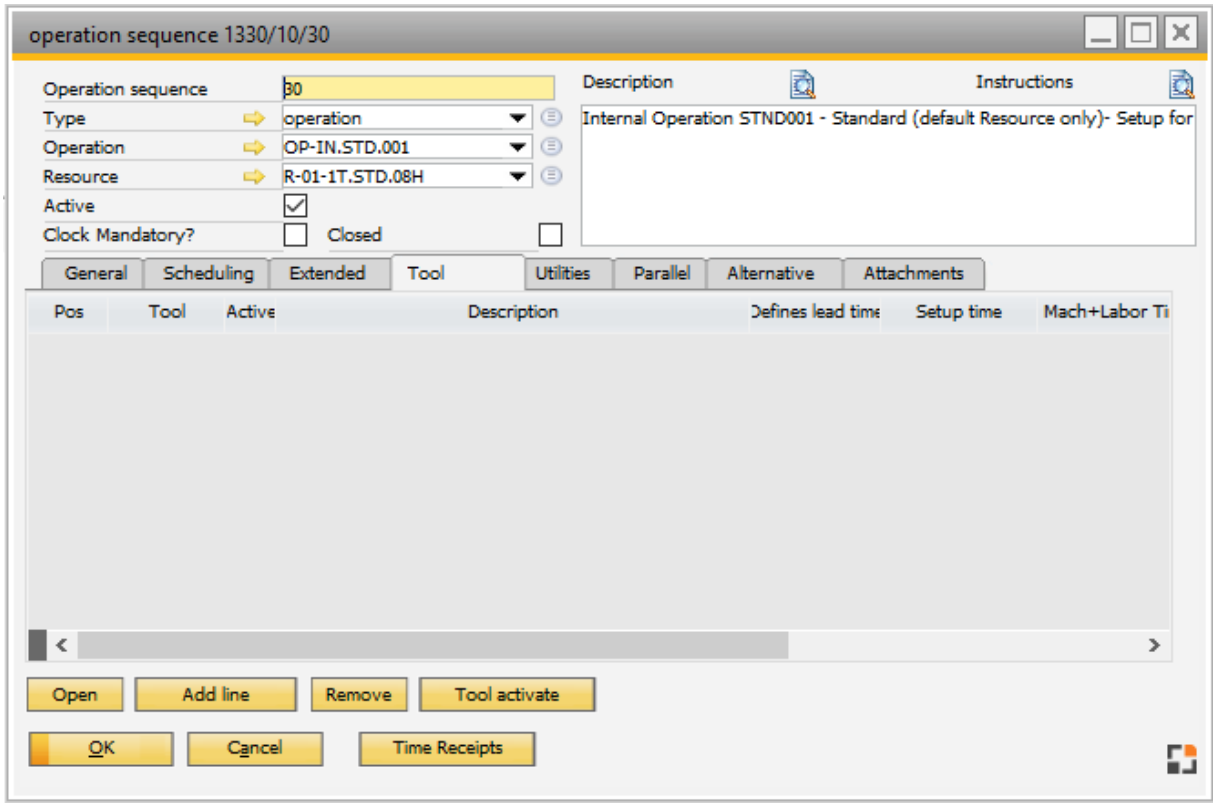
© 2026 Boyum IT Solutions A/S

	The number is generated automatically. It is a continuous number, which cannot be manipulated. ***See*** Report order times Logon order Logoff order *(Field: BEAS_FTAPL.NUMMER)*
Task	Link to a Project-Task .
Block login	Check mark, to block logon to this operation.
Confirmation (Time receipt) in Unit	Selection of time receipt units. ***See***: Units of measure.
Factor per Production UoM	Conversion factor to warehouse unit. ***See***: Conversion.
Block completion with quantities below minimum	Block completion with less quantity .
Invisible in post-calculation	If active, the position is hidden in post-calculation .
Expand to cost elements	Drop down: if you expand to several cost elements, you can separate the costs at a time receipt and distribute them to the cost elements set up previously. Note: To avoid incorrect operation time: After reducing the number of cost elements, delete the prices of the cost elements not in use.
Resource optimization	Check mark, if resource optimization was enabled.
Slave op.sequ. belongs to Master	A master operation sequence can be selected. Information on the master-slave concept . ***see*** Slave-to-Master.
Image	Image for this operation, for better recognition.
Color	Operation is displayed in this color in all windows.

back to Production Routing.

Production > Work Order > **Open** WO position > **Open** operation > "Tool" tab

© 2026 Boyum IT Solutions A/S



Window arbplanpos_edit.psr

Field description of the Tool tab

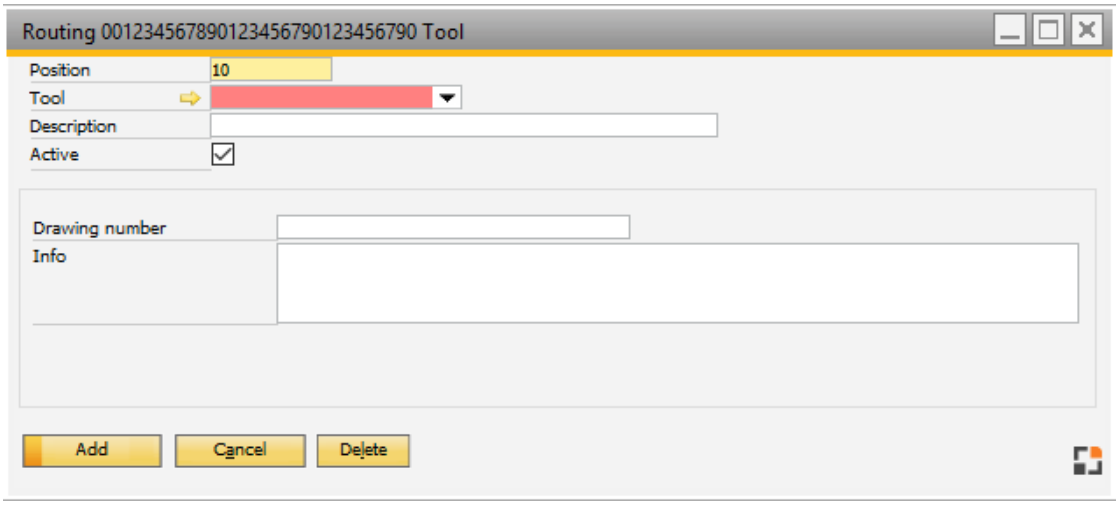
Field	Description
Position	Consecutive number, but not a primary key. The list output is sorted by this number.
Tool	Tool key (selection from master data / tools).
Active	Checked if entry is active.
Description	Designation of the tool (cannot be changed).
Defines lead time	Does the tool determine the lead time? If enabled, the default times of the tool are transferred to the operation. In this case, the tool influences lead time. Only values are used, which had been entered in "planning". Empty fields are ignored. If more than one tool was stored in an operation and for both "determine lead time" was enabled, only one tool can be activated.

© 2026 Boyum IT Solutions A/S

	Activating or exchanging the tool is possible in Work order structure or in APS – graphic view.
Setup time	Setup time.
Mach + Labor Time/unit	Job time. Machine + operation time per unit

Adding a new tool

To assign a new tool to the selected operation sequence, click on "**Add line**" under **Routing > Tool tab** and the following window opens:



Window artikel_arbplanpos_Edit_werkzeug_edit.psr

Field	Description
Position	Field used to sort the tool lists from the routing. It is a consecutive number but not a primary key.
Tool	Field used to assign the tool to perform this operation. This field is mandatory.
Description	Field used to display the tool description. This field cannot be changed because it automatically comes from the chosen tool.
Active	Check box field used to set the tool as active in the routing.

Important: Tools that define lead time cannot be simultaneously active for the routing position. Only one of them can be active at the same time, but the active tool can be switched directly in work orders. The time information is copied to the operation. Therefore, the user must check one tool as “Active”; all other tools that define lead time are deactivated automatically.

© 2026 Boyum IT Solutions A/S

(Previously Resources tab, in which tools, alternative work sequences, and parallel work sequences were listed in a table)
A second row of buttons has been inserted here now. The top row of buttons relates to the tool list. Care should be taken here during processing.

General tab

Field	Description
Drawing Number	The technical drawing number. This field cannot be changed because it is read from the chosen tool.
Info	Additional free text information on the tool entry.

Planning tab

This tab is only active if you have selected a tool with capacity planning.

Field	Description
Idle Time	Defines the time in hours after which the tool can no longer be used for other work orders (e.g. cooling, quality control, maintenance, etc.).
Next work sequence begins after idle time	If activated, the next work sequence can only be started after the idle time. Example: If the tool is a bin and this must be cooled before the finished product can be removed from the bin, the next work sequence can only be started after cooling. However, if the idle time is for quality control of a tool, you can begin with the next work sequence immediately (i.e. switch deactivated).

Default Time tab

This tab is only active if the tool defines the throughput time.
If this tool is activated (only one tool can ever be activated which defines the throughput time), its throughput time information is copied to the operation.

Note:
Only fields are considered where entries have been stored in the tool. Consequently, you can remove all entries. Work step and use factor are only used if > 0.

Example:

© 2026 Boyum IT Solutions A/S

Setup time of tool = nothing entered
Processing time in tool = 5 mins
Setup time is not changed in operation, thus it comes from tool.

Please make sure that you work the same way for all tools.

If a tool which determined the time is activated, it is transferred automatically to the operation at saving.

Field	Description
Setup time	Enter the setup time to start using the tool. Time specified per "Time per". **Important**: This replaces the operation setup time when this tool is used.
Processing time	Set the time the tool takes to produce the items. This is the actual processing time per unit produced in the routing position. The processing time for a unit of quantity per "Time per" in consumption unit per "Quantity per" finished parts. **Note**: Secondary processing times cannot be specified here.
Quantity per ..	Defines the number of finished parts in consumption units during the processing time refers to, e.g. 10 minutes per 1000 kg.
Time per	Specify whether the time unit for the setup and production processes is hours or minutes.
Use Factor	Split the production time amongst more finished goods.
Number	Number of required work steps e.g. 10 work steps in "processing time".
Utility	Utility factor, e.g. 10 units are produced at once per step or hub and per processing time.
Cost Element	Set the account in which the standard costs from the usage of this tool is booked. Accumulated costs are written to this cost element.

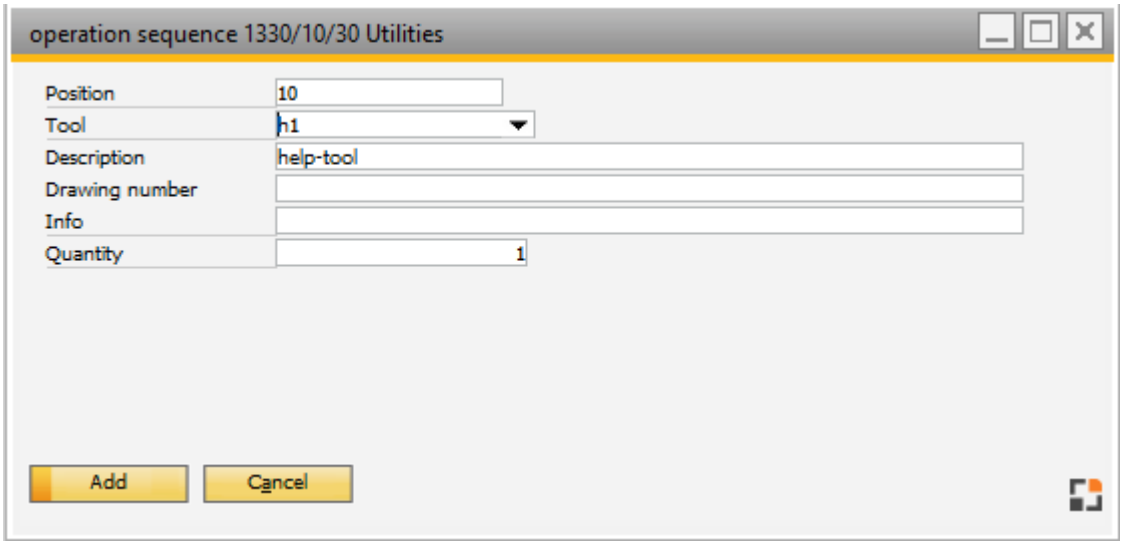
General settings on tools:
See: Tool administration.

© 2026 Boyum IT Solutions A/S

Production > Work Order > **Open** WO position > **Open** operation > "Utilities" tab

Add a new Utility

To assign a utility, click on "**Add line**" under **Routing > Utility tab** and the following window opens:



Window artikel_arbplanpos_edit_hilfswerkzeug_edit.psr

Field descriptions

Field	Description
Position	Sort the utilities list from the routing. It is a consecutive number, but not a primary key.
Utilities	Utility key (selection from Master Data / Tools / utilities). Assign the utilities to perform this operation. This field is mandatory.
Description	Displaya the utilities description. This field cannot be changed because it is read from the chosen utilities.
Drawing Number	The technical drawing number. This field cannot be changed because it is read from the chosen utilities.
Info	Additional free text information.
Quantity	Specify the number of utilities needed to perform the operation. This field is for information only and has no influence on the routing position.

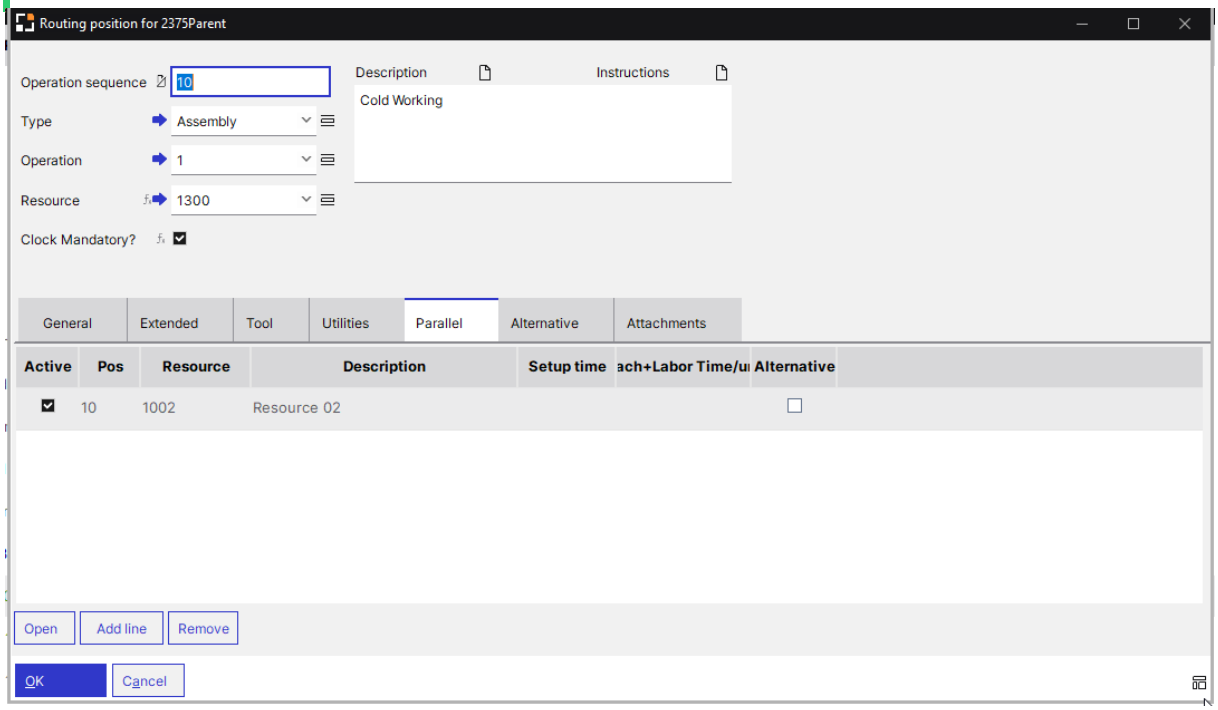
Buttons:

Open: Click button to open the editing window of the selected utility (***see*** image above "Add a new Utility")

© 2026 Boyum IT Solutions A/S

Remove: Delete utility for this routing position.

Production > Work Order > **Open** WO position > **Open** operation > "Parallel" tab



Window arbplanpos_edit.psr

In the Parallel tab, Beas displays a list of all resources that will be used in parallel with the main resource assigned in the Header. The user can insert, edit and delete resources.

Important: Only use parallel resources if a separate time planning is required for parallel resources.

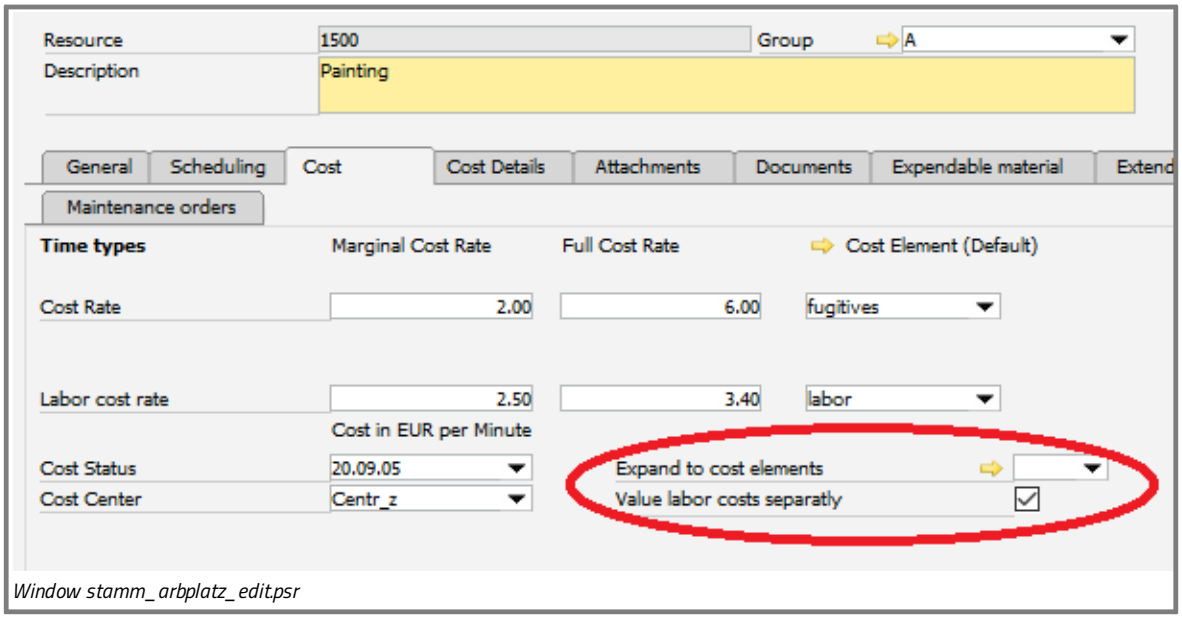
NOTE: Parallel operations do not consider quantities and do not manage Open/Close status!

- Alternative possibilities:

a) Define personnel costs separately. Thus these costs will be calculated separately.
b) Up to 4 separate cost elements can be defined, which can also be receipted separately.

PATH: Resources > Resource Master Data XXX > Cost tab.

© 2026 Boyum IT Solutions A/S



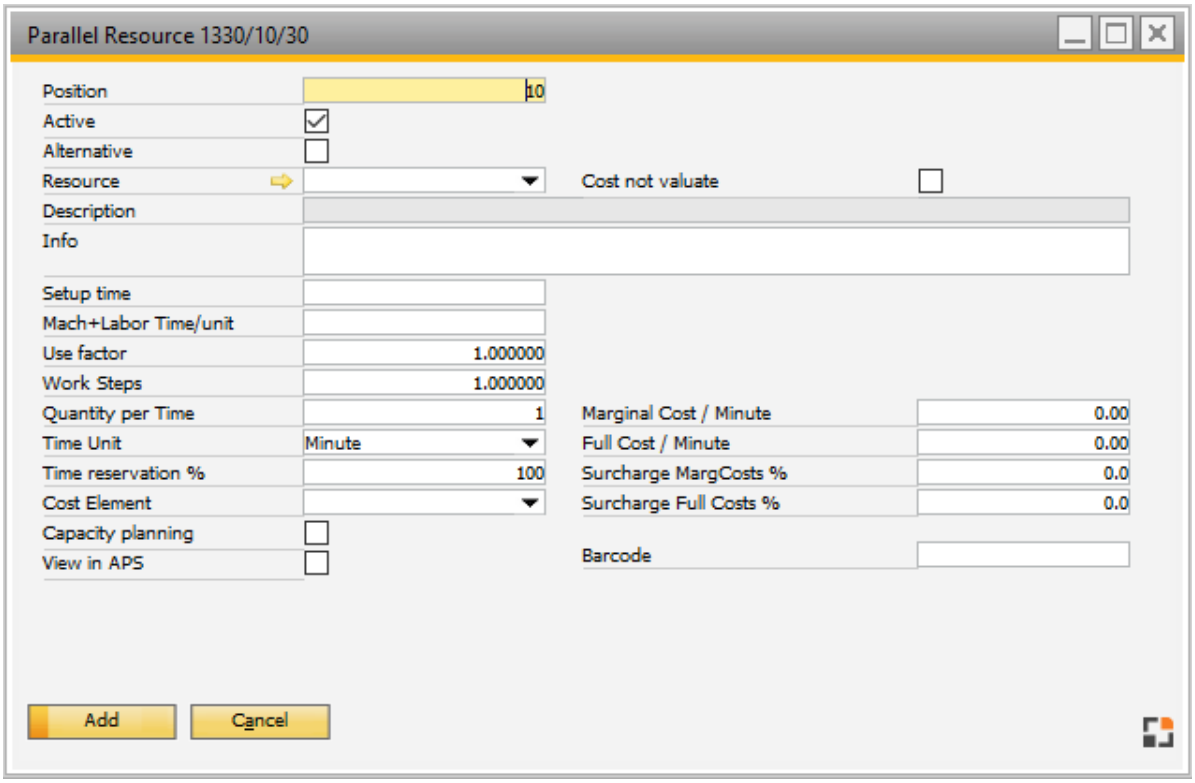
Window stamm_arbplatz_edit.psr

To assign a parallel resource, click on New and a new window opens:

PATH: Inventory > Item report >

1. "Open" an entry >
2. Routing tab >
3. "Open" routing position >
4. "Parallel" tab >
5. "**Open**" / "**Add line**".

© 2026 Boyum IT Solutions A/S



Window artikel_arbplanpos_edit_parallel_edit.psr

Field	Description
Position	Used for sorting the parallel resource list from the routing. It is a consecutive number, but not a primary key.
Active	Set parallel resource active. If enabled, only one position can be active. **Important**: Only one parallel resource can be activated which defines the throughput time per routing. This information is copied to the operation, therefore, the user must check one parallel resource as "Active", and all other resources should have "Active" unchecked.
Alternative	Set if this parallel resource can also be alternative to other parallel resources for the same operation.
Resource	Resource ID of the parallel resource **Note**: No external resources or resources with extended cost rates , for example personnel costs, are allowed.

© 2026 Boyum IT Solutions A/S

Cost not valuate	Determine whether to consider resource costs in calculation If enabled, the resource costs of this parallel resource are ignored. Precalculation and post-calculation are affected. Costs created with time receipts are not taken into account. Use this option if the cost is included with the main resource. Disabled by default. *beas 9.1 PL: 08*
Description	Description of the resource that comes from the resource master data and cannot be changed.
Info	Additional free text information.

Throughput Time area

This information relates only to Business performance, not to the throughput time of the work sequence itself, as this is ALWAYS parallel to the main work sequence and always has the same start and end time.

Field descriptions

Field	Description
Setup time	Setup time of the parallel resource process.
Mach+Labor Time/unit	The Mach+Labor time for a unit of quantity using the *Time unit* in consumption units *Quantity per time* finished parts. **Note**: Secondary mach+labor times cannot be specified here.
Use factor	Split the production time amongst more finished goods ***See*** Calculation of target time.
Work steps	Used as a multiplication factor for the production times ***See*** Calculation of target time.
Quantity per Time	Used as a multiplication factor for the production times
Time Unit	Defines times in hours or minutes. To register a processing time independent from the quantity you can enter 0. ***See*** Calculation of plan time.
Time reservation (%)	If no setup and edit time was entered, the time of the main operation * time reservation is used as reference.

© 2026 Boyum IT Solutions A/S

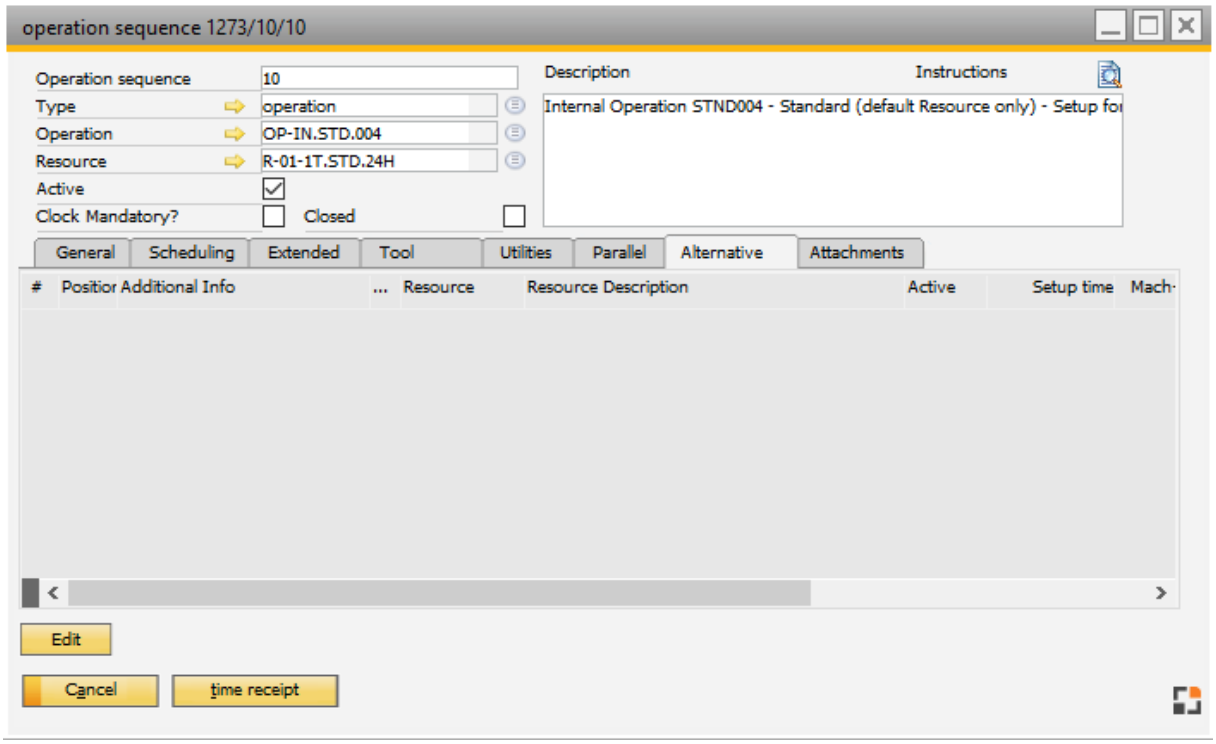
	At which % should the resource be scheduled? ***Example***: The parallel resource is an employee operating four machines at once. He needs to be available for the machine at the whole time but only at 25%. ***Example***: The parallel resource should work during 30% of the main resource time, the user can enter the value “30” in the Time Reservation field, and Beas calculates the times for the parallel resource automatically. If the setup time or processing time is entered, in Precalculation this value is ignored. ***See*** Calculation of plan time.
Cost element	Accumulated costs are written to this cost element.

Technical information:
Parallel resources share a database table with tools, utilities, and alternative operations.
Structure of bar code on routing card: 6-digit beas_ftapl.number + 3-digit beas_ftapl_wkz.pos_id

back to routing

Production > Work Order > **Open** WO position > **Open** operation > "Alternative" tab

© 2026 Boyum IT Solutions A/S



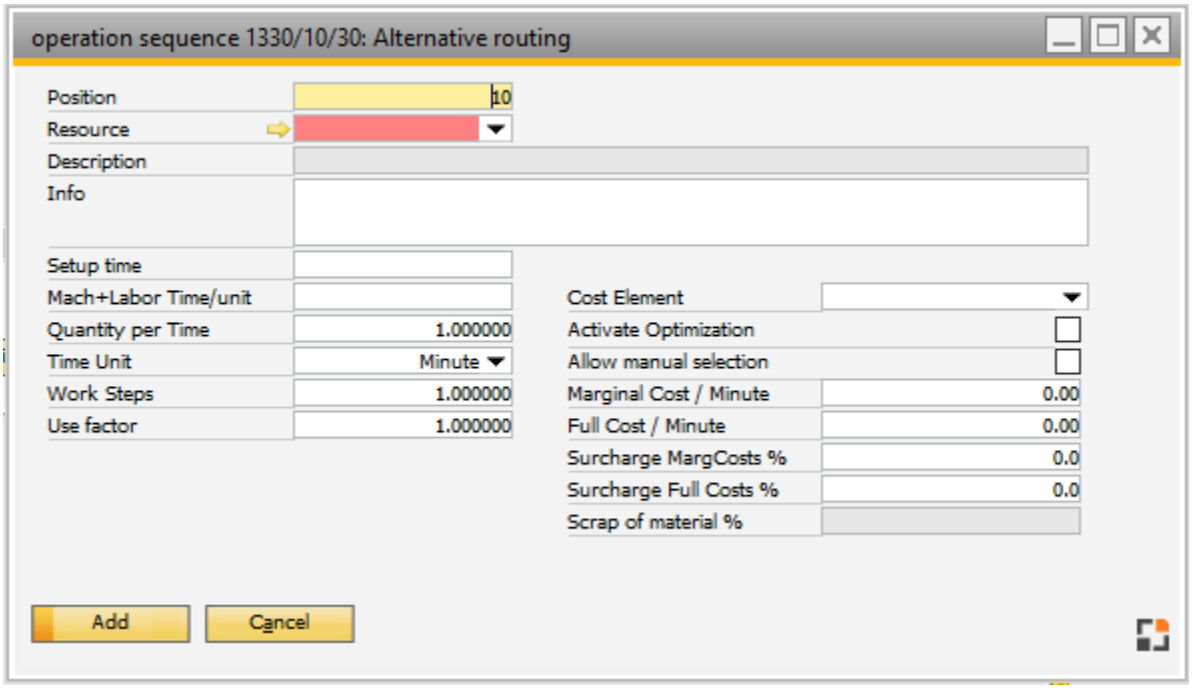
Window arbplanpos_edit.psr

In this tab you can define alternative resources related to a routing position.
In APS and Work order you can change the alternative resource with one mouse-click.
The alternative resource can have its own parameters as setup time, processing time etc.

The option "Optimization"checks whether a faster production would be possible using this alternative resource.

The user can insert, edit and delete resources. To assign an Alternative resource, click on **Add,** and a new window opens:

© 2026 Boyum IT Solutions A/S

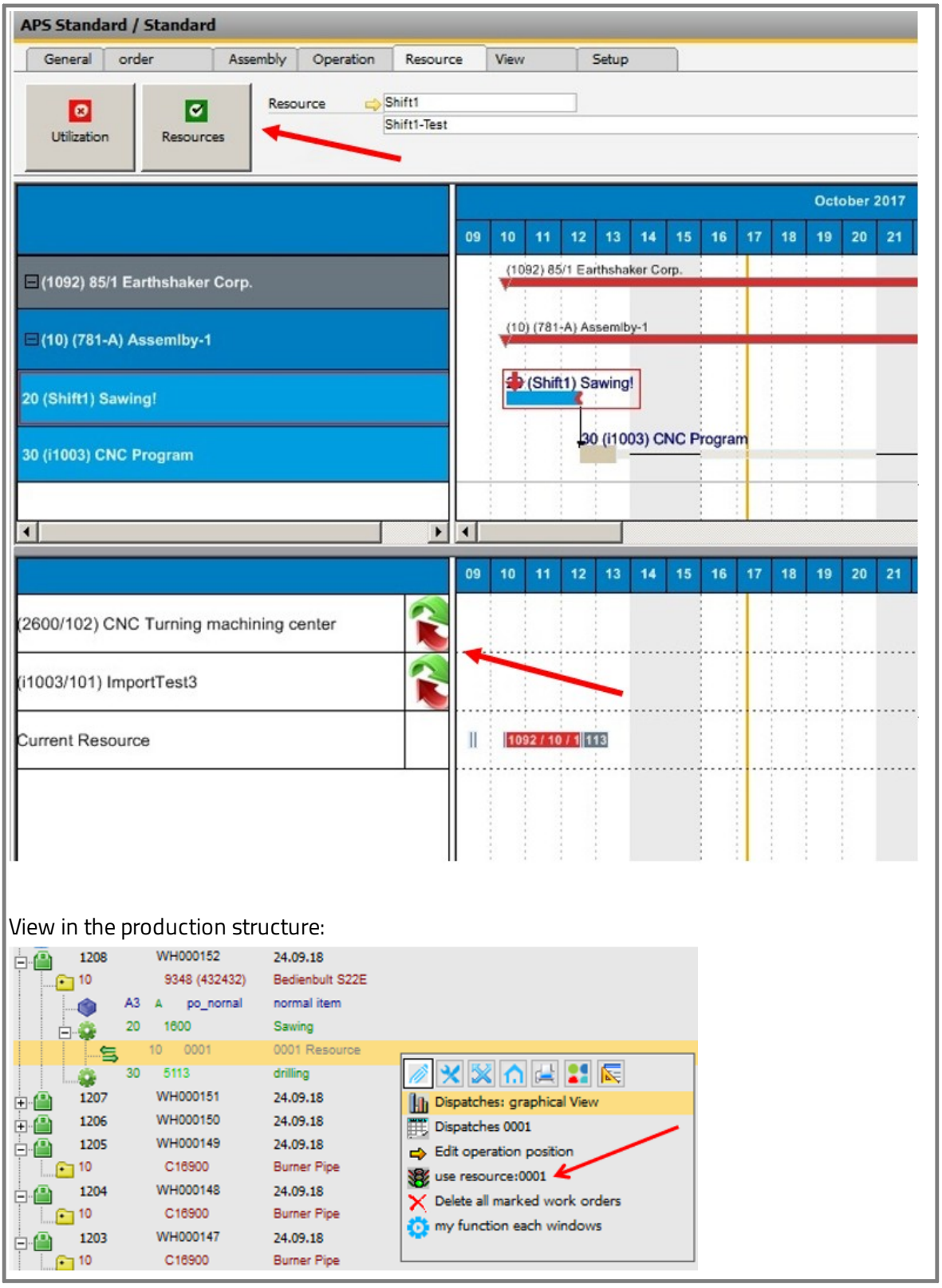


fert_arbplanpos_edit_alternativ_edit, artikel_arbplanpos_edit_alternativ_edit, stamm_ag_alternativ_parallel_edit

- The alternative resource can be selected manually in APS – graphical view and in production structure view.

  Selection in the APS view:

© 2026 Boyum IT Solutions A/S



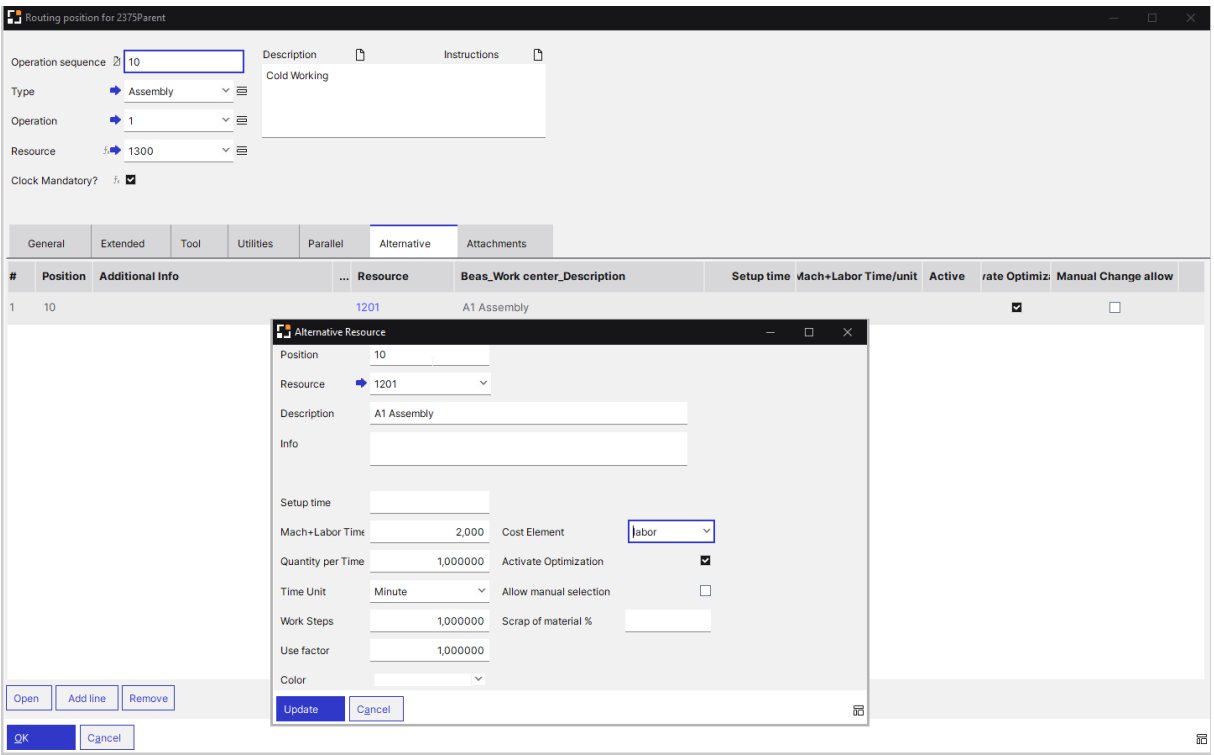
View in the production structure:

See Overview alternative resources

© 2026 Boyum IT Solutions A/S

The alternative resource can be selected manually in the APS – graphic view and Production structure display.

Note: Alternative resources are not supported in the Precalculation.



Field	Description
Position	Used for sorting the parallel resource list from the routing. It is a consecutive number, but not a primary key.
Resource	Select the resource ID of the parallel resource from the existing resources. The alternative resource can be selected manually in the APS - graphic view and production structure display.
Description	Description of the resource that comes from the resource master data and cannot be changed.
Info	Additional free text information.

Throughput Time area

Field	Description
Setup time	Setup time of the alternative resource process. Default time can

© 2026 Boyum IT Solutions A/S

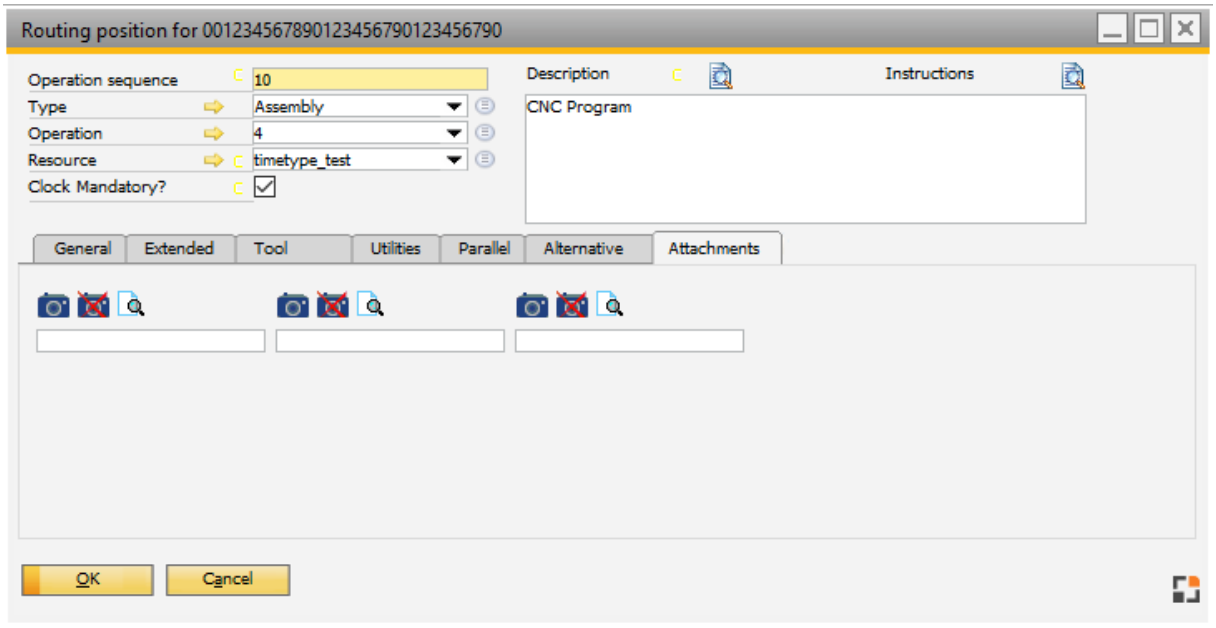
	be specified in the *Quantity per time* parameter.
Mach+Labor Time/unit	The Mach+Labor time for a unit of quantity using the Time unit in Production UoM Quantity per time finished parts. **Note**: Alternative resources do not manage Secondary+Labor times. Therefore, if a main resource manages secondary times when switching to an alternative resource, the information of the secondary values in the operation will be lost, especially if you want to return to the main resource again. In this case you will have to add those data manually or refresh the order if applicable.
Quantity per Time	Defines the number of finished parts in Production UoM to which the processing time refers, e.g. 10 minutes per 1000 kg. ***See*** Routing position.
Time Unit	Defines whether times are specified in hours or minutes. ***See*** Routing position.
Work Steps	Number of required work steps used as a multiplication factor for the production times e.g. 10 work steps in "processing time" are required .
Use factor	Use factor to split the production time amongst more finished goods, e.g. 10 units are produced at once per step or hub and per processing time.
Cost element	Accumulated costs are written to this cost element.
Activate Optimization	If active, define whether Beas should automatically select the most adequate resource, amongst the main and alternative resources in the APS calculation. The resource is replaced automatically.
Allow manual selection	⊟ Allow the manual selection of this alternative resource. This alternative resource can only be selected manually if this option is enabled. The event is canceled and receipted with the error message *'(aktivaplatz440)Resource cannot be selected when flag 'allow manual change' is off'* if this option has been disabled and an attempt has been made to select the resource. **Note**: A change is only possible if change has been allowed according to the production position (**Production position**

© 2026 Boyum IT Solutions A/S

	> **Allow change** has to be activated).
Scrap of material %	Define Scrap of Material. If the user uses this alternative resource, the system replaces the Scrap material % too and recalculates the scraps per Material for all routing positions. ***See*** Concept Scrap of Material Note: If you switch the resource with another Scrap of Material entry in the work order, the system calculates the new quantity of the related BoM Position, but not the quantity of order related sub assemblies. ***See*** this video: *Beas 9.3 PL 1*

Production > Work Order > **Open** WO position > **Open** operation > "Attachments" tab

There are three buttons for each field:



Window artikel_ arbplanpos_ edit.psr

Icons

Traditional style	Boyum Style	Description
		The camera button enables the user to select an image or

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style	Description
		document to attach.
		The camera button marked with an "X" removes the attachment.
		The document with a magnifying glass opens the attachment.

All attachments included in this tab are available in the FDC Terminal.

For more information on storing images ***see*** Window.

8.2.4.5.1.4 Calculation tab

Work orders

Work order document

Work order item

BoM

Routing

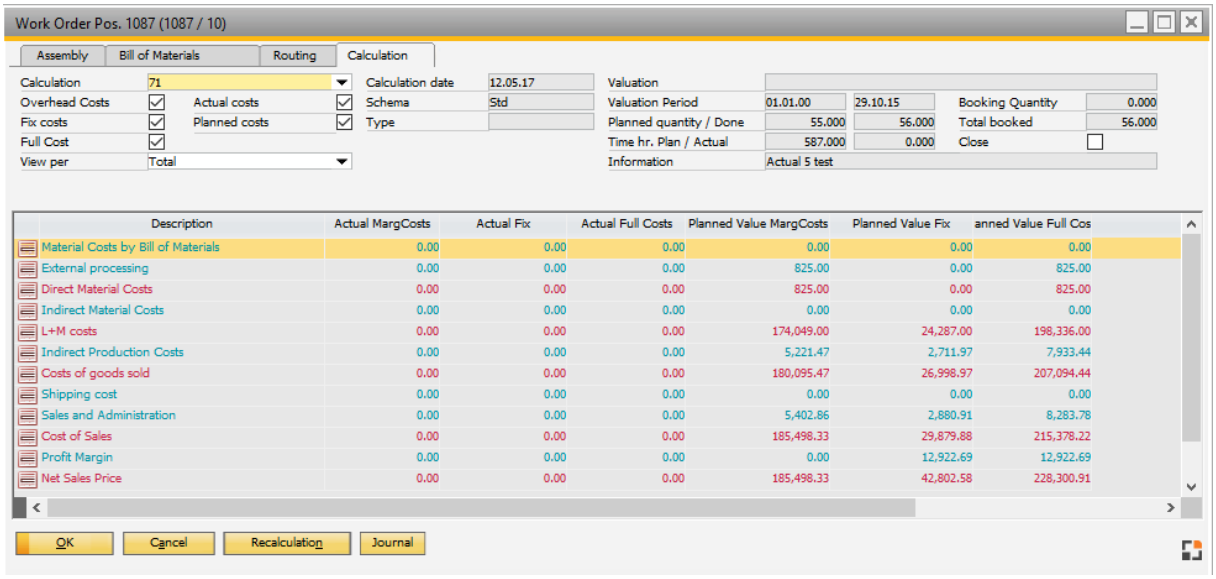
Calculation

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Calculation" tab.

In this area the results of all manual and automatic calculations are displayed.

For account postings and price valuation a calculation is also executed when an assembly is posted. This can be displayed here afterwards.

The results for full, fixed and marginal costs for planned and current costs can be displayed.



© 2026 Boyum IT Solutions A/S

Window fert_ftpos_postcalc_master.psr

Field	Meaning
Calculation	Number of post-calculation.
Calculation date	Date of the last calculation.
Valuation	Valuation type. A post calculation is executed when a posting is made depending on the valuation type. The valuation type used for this is displayed here. This field is empty if the post-calculation was executed manually. All fields and switches that are not relevant for a calculation for planned costs are hidden if the valuation "Planned costs" was selected. ***See*** Configuration wizard - Valuation assembly, Production type
Costs (overhead, actual, fixed planned or full costs or standard price)	Select, which cost rates are used for the calculation. The selection is reduced for valuation for planned costs.
Schema	Selected calculation schema.
Planned quantity	Plan values have been calculated with this quantity. **Valuation form to post-calculation** Only visible for valuation form to post-calculation and manually created post-calculation. For final posting or for manual post-calculation this is the planned quantity **Valuation to planned costs** Only the quantity to be posted is calculated for valuation of planned costs. The columns "Post quantity", "Total posted"

© 2026 Boyum IT Solutions A/S

	and "Finished" are hidden, since these are not relevant for calculation.
Done	Quantity already posted. Only visible for valuation form to post-calculation and manually created post-calculation. The quantity to be posted is considered at a evaluation if the finished quantity at the time of the post-calculation or valuation.
Total booked	Total posted quantity. **Valuation form to post-calculation** At the time of calculation: Quantity posted so far + quantity to be posted. **Valuation to planned costs** These fields are not displayed here.
Type	Type of post-calculation (standard / single step / accumulated) Type of post-calculation **Manual post-calculation** Type of the selected calculation: standard / single step / accumulated. **automatic post calculation (Entry process)** This field is not filled. A single step calculation is always made.
Time hr. Plan / Actual	Planned / actual time The planned and the accumulated time is displayed. Only the calculated planned costs for the to be posted quantity are displayed at the valuation for "planned costs".

© 2026 Boyum IT Solutions A/S

Information	Free text
View per	Select view: per 1 unit, per ... units, lot size, total Determine for which quantities to convert the view. Note: **Total** refers to the previously posted assembly quantity. Means "Total costs"/ "Planned quantity" * "already posted quantity" For valuation with calculation objects with "price per piece" and "price per lot size" the price is displayed in relation to the posting quantity and not to calculation quantity. By selecting in view a unit different from "total" the view will be incorrect, because it is converted per calculation quantity. The total sum is correct.

Buttons:

Recalculation: A recalculation is performed .

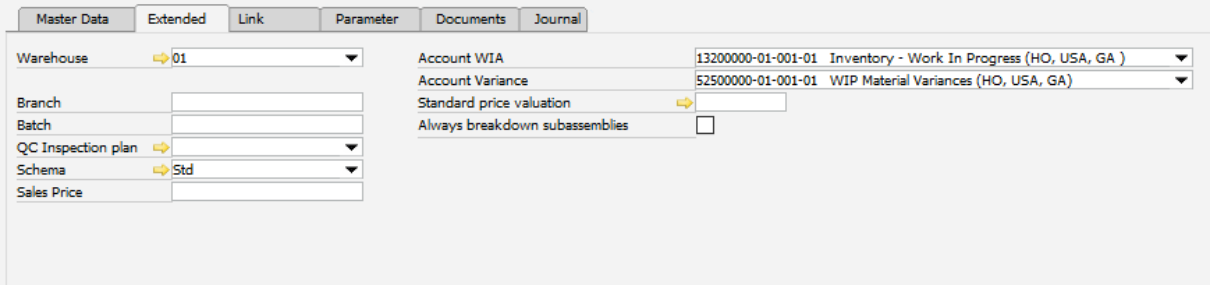
Journal: Open the transaction journal.

see post-calculation

back to Work order position

8.2.4.5.1.5 Extended tab

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Assembly" tab > "Extended" tab.



Window fert_ftpos_postcalc_master.psr

© 2026 Boyum IT Solutions A/S

Field	Description
Warehouse	Assembly receipt planned for this warehouse Defined in: a) Warehouse rules – Document type production create new. Warehouse rules can be stored in the Item master. b) **Configuration wizard > Production > Valuation and posting assembly > Posting > Post finished parts to warehouse** c) Standard warehouse of the item. This warehouse is used to determine the WIP accounts. For that reason, the warehouse should not be changed. If the work order has already started, WIP accounts may be warehouse-dependent. This warehouse is the suggested warehouse at receipt. The System supports WMS, SAP and Beas Bin Managed warehouses *beas 9.3 PL 2*
Bin location	Default bin location This field is only visible if a bin location warehouse was selected. The bin location to post in the finished part to. Use Warehouse rules for automatic pre-allocation.
Branch	The branch in which the production item is manufactured, determined automatically, based on the warehouse. The field is only visible if the multi-branch solution was activated in SAP Business One.
Batch	Information on batch This field is for information only without any further function. Can be used for customization. Batch number reservation, similar to serial numbers, is only possible using customized extensions. ***See*** Configuration wizard > Batch management.
QC-inspection plan	Which QC-inspection plan to use for this assembly Determined automatically using the QC-settings in the item. If changed during the creation of a new work order item, the system checks whether another warehouse is to be used (***see*** Warehouse rules).

© 2026 Boyum IT Solutions A/S

	At the first receipt the QC order is created. If the entry is emptied, the QC-inspection plan is determined at the moment of receipt.
Schema	The calculation schema used for automatic post-calculation Determined automatically. It defines which schema is used for valuing the work order. 1. If defined in the Calculation schema: the setting form Configuration setting. if not defined 2. from item master data - Calculation schema. if not defined 3. Schema "Std". You can change this manually, but only before the work order is saved. ***See*** Calculation schema Configuration Wizard
Sales Price	Sales price defined in the precalculation or manual input.
WMS production line	Select a WMS production line. The field is only visible when Produmex WMS AddOn is installed in the database. Predefined values come from WMS definition. **Automatic assignation of Production line** If the item or the warehouse are changed, the production line is also updated automatically. To define the production line at the position at work order creation the system checks: 1. If the BoM is Linked to an operation, the production line of the routing is used 2. If there is a production line in the Warehouse rule 3. The default production line on warehouse Level. ***See*** also WMS picking for production work flow

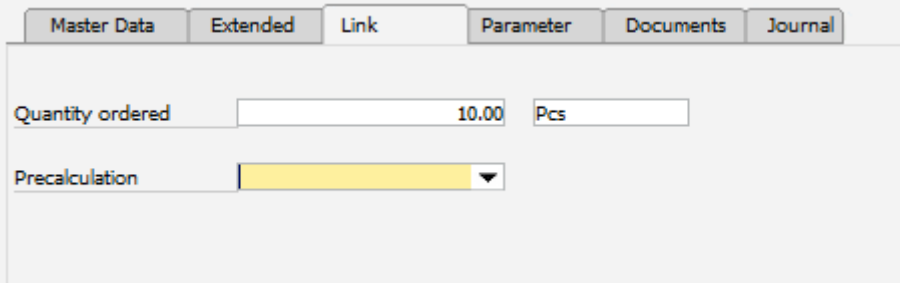
© 2026 Boyum IT Solutions A/S

Account WIA	The WIP account used for the assembly Only visible if continuous stocktaking is activated. Warehouse and accounts can be changed any time. If the warehouse is changed of the correct accounts are determined automatically. Except for when a new assembly is created, a warning is issued before changes, because a subsequent change of accounts could result in differences in account balances, when time receipts have already been posted. **Note**: The standard account determination of SAP Business One is used. Extended account determination is supported. The selected warehouse needs to be defined as WIP warehouse. ***See*** **Configuration wizard > WIP-accounts.**
Account Variance	The variance account used for the assembly. Cannot be changed. Only visible with continuous stocktaking activated.
Standard price valuation	Only active for the default valuation method: References the last valid precalculation at standard price valuation. This is used as a reference in post-calculation. The results of the calculation can be retrieved directly.
Always breakdown assemblies	If enabled, everything is broken down as order-related Breakdown takes place regardless of the scheduling ID. This option can only be changed when creating a new work order. If enabled, even storage-related assemblies (scheduling ID storage-related) are also broken down and included as receipt. This option cannot be changed for existing work order items. It has a higher priority than the settings in Master data > BoM and Production types. The settings have no effect if the work order was created from a calculation. This option can only be changed when a new assembly is created. The default can be stored in the production type. ***See*** Production types > always breakdown assemblies.

© 2026 Boyum IT Solutions A/S

8.2.4.5.1.6 Link tab

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Assembly" tab > "Link" tab.



Window fert_ftpos_postcalc_master.psr

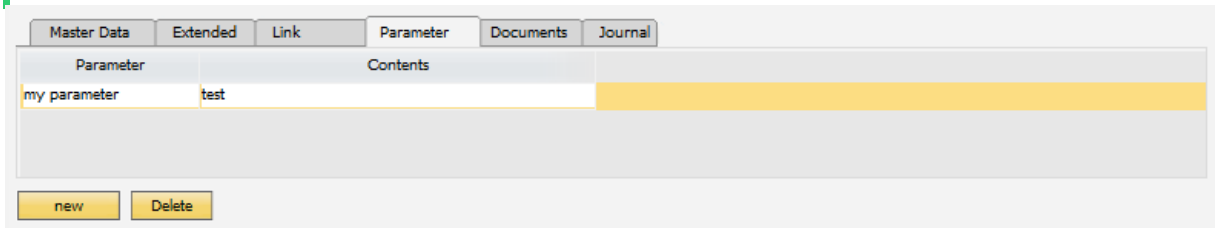
Note: This tab is only visible on top level. In Sub positions this tab is not available.

Field	Description
Basic document	Defines the type of base document. Available types: • Sales order • Proforma invoice • Production order If one of these options has been selected, the document information can be selected. Click the orange arrow to open the basic document. Note: Field is only available if Reservation system is disabled. If you work with reservation, you can manage this via Button Cross references.
Quantity ordered	The quantity ordered or requested from the work order in storage units.
Precalculation	If the work order was created from a calculation, the internal calculation number is displayed here. ***See*** Calculation

© 2026 Boyum IT Solutions A/S

8.2.4.5.1.7 Parameters tab

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Assembly" tab > "Parameter" tab.



Window fert_ftpos_postcalc_master.psr

In this tab, copies of the parameters from the item master are displayed and can be changed if necessary.
These can be used e.g. as a reference in variant production.
The parameters can be changed, added, or deleted here.

Note: UDF's set in the Item Master are not copied into the UDF fields of this tab.

8.2.4.5.1.8 Documents tab

It is possible to insert attachments to the work order position. Click the **New** button and a new window opens to insert the attachment.

See Work order document attachments.

8.2.4.5.1.9 Journal tab

PATH: Production > Work orders > **Open** work order > Work order document "Positions" tab > **Open** selected work order position > "Assembly" tab > "Journal" tab.

This tab is only active if continuous stocktaking is activated.
All journal entries belonging to the work order are displayed here, grouped by account.

Field	Description
Account	The account number.
Description	Account name.
WIP	Indicates if it is a WIP account.
Amount	The amount posted (summarized per account).

© 2026 Boyum IT Solutions A/S

8.2.4.5.1.10 Structure Refresh

In Beas it is possible to "Refresh" existing work orders from master data.
Related to settings in the Configuration assistant you can refresh only Bill of Materials, Routing, not started work order and started work orders.

How Refresh works

BoM and routing are read again from the item master data and the work order is updated. The full sub-structure is updated. Each position is analyzed separately, deleted, replaced, added or completed.
In the selected position, the following fields are updated:

- Drawing number
- Match code
- DIN
- Raw material

If version control is active, the drawing number and description is taken from the respective version.

If deleting is not possible, the relevant items are completed. The following remains unchanged when updating:

- Position number of the assembly
- Operation sequence
- Material item
- Bar code number
- Information whether assembly was completed

As long as the operation sequence or the material item number is not changed in the master data, the production item is firmly connected to the master data This makes it possible to update the work order regardless of the manufacturing item number.

The following information is not changed when updating:

1. Item number of the assembly, operation sequence and material item
2. Deposited bar code number of the assembly, operation sequence and material item
3. Information on status (completed)

If an operation sequence or a material item is completed, it is updated, but remains closed. If an assembly is completed, it is not changed anymore and there is no further breakdown or update of the operation sequences, BoM and sub-assemblies.
If in master data a material item (which is an order-related assembly) is deleted, the material item and the associated assembly are also deleted during the work order update. If deletion is not

© 2026 Boyum IT Solutions A/S

possible due to existing time receipts, only the deletable items are deleted and all related operation sequences, BoM items and assemblies are closed. The WIP account for the affected assemblies is cleared.
Thus, it is always possible to refresh work orders including multi-level work orders. Phantom assemblies do not cause issues.

Inactive operations
Control the behavior of inactive operations during Structure refresh in the Configuration wizard.
See the different setting descriptions of parameter Apply inactive work sequence.

Material change in the existing BoM:
If the item number in an existing material item is changed in the master data, the link to the production BoM is lost during the update. First it is deleted, then it is inserted as new. A new number and bar code are assigned to the BoM item. If the BoM item cannot be deleted, it is set to completed. The same applies to the corresponding sub-assemblies.

> **Note**: The update process uses the item number in master data. For this reason, BoM and operation sequence position numbers may not be changed.

Refresh only BoM
In the Configuration wizard you can define to refresh only the BoM but not the routing. This can be used in case the routing is managed in the work order and not in the master data.

Variant production
If variant production is used, parameters can be queried when an item or work order is created. These are saved and used in case of an update, they do not need to be entered again.
(Table `beas_ftcaft_varentry`). For more information ***see*** function Variable.

Multiple update
In the work order list several orders can be marked and calculated at once. The drawing number, description, DIN, raw material and match code of the selected assembly are NOT updated. ***See*** WO structure.

Change Log support:
All the important changes performed in the WO Refresh function (that we improved in our previous version) are now recorded in the Change Log.

© 2026 Boyum IT Solutions A/S

Limitations

The work order can be updated if
- it was not created from a precalculation,
- it is not a collective order (merged work orders)
- APS planned flag is not activated
- Rules are defined in Configuration assistant

An update is also possible if time receipts or material postings exist. In this case, each position is analyzed separately, deleted, replaced, added or completed.

If material summary is enabled, refresh is not possible. If you click the button, the error message `(auftrs340) "material summary enabled, no work order update possible"` is displayed.
Related option for material summary is in **Configuration wizard > Production > Create new > Summarize phantom assemblies by item numbers**.

If the "Changes allowed" flag is not active at the work order position, the Refresh button is not visible. If the "Changes allowed" flag is not active in a sub-position of a current work order position, the refresh function does not refresh the sub-position or any related positions of this sub-position.

If an assembly was split, (***see*** split assembly) , the split assembly is not updated any more. The quantities of the original assembly are changed back.

Phantom items - limitation:
In case:
- there are several instances of the same phantom item in the work order structure,
- the internal Position ID is changed in the structure,
- the WO is already started (includes Time receipts, issue/receipt documents)
- and the WO refresh behavior Configuration parameter is set to "Refresh",

the refresh process is discontinued.

8.2.4.5.2 field description extended

Additionally available columns in a production document:

Field	Description

© 2026 Boyum IT Solutions A/S

Document No	Production document number (internal, unique, not changeable).
Pos	Production position number.
Structure-Pos	Structure position number. Sorting by this number, the work order is displayed in the correct structured order.
To Pos	For sub-assemblies there is shown to which main assembly they belong.
To BoM Pos	Reference to BOM item of the main assembly.
Order quantity	Quantity according to customer order in warehouse units.
Quantity consumption	Production quantity in consumption units.
Quantity storage	Production quantity in warehouse units.
Unit warehouse	Warehouse unit.
Conversion	Conversion from consumption unit to warehouse unit.
Finished	Quantity reported as completed in consumption units.
Manually finished	Quantity reported manually as completed. ***see*** assembly tab – master data tab – column "ready")
Quantity finished	Completed quantity in warehouse units. Sum of postings of this assembly, less cancellations, plus the value from "manually finished".
Deliv. Date	Delivery date of the item = delivery date of customer order less the entered number of work days . Double-click entry to change the date directly.
Closed	Position closed?
Start time	Calculated start time of item.
End time	Calculated end time of item.
Actual time	Previously reported actual time.
printed	Printed production document.
Additional text	Free text.
Barcode	Barcode printed on the routing card. Structure yyyyyyxxx where y is the document number and x the item number.
Sales price	Can be entered manually - required for planned - actual post calculation.

© 2026 Boyum IT Solutions A/S

Last post-calculation	When was the last post-calculation performed for this work order and a price determined?
Mat marg cost plan	Material overhead costs at marginal costs and full costs as per default.
Mat marg cost act	Actual marginal and full costs according to postings.
LMC marg cost plan	Labor+machine costs marginal or full.
LMC marg cost act	Actual marginal and full costs according to time receipts from FDC.
COGS marg full plan	Calculated costs of goods sold as per default.
COGS marg full act	Actual costs of goods sold.
Time plan	Calculated planned minutes.
Time act	Calculated actual minutes.

back to document position

8.3 Project management

Beas provides a powerful project management module. With Projects you can schedule and monitor orders in Beas. The project management module provides transparency on tasks, budgets and activities, to have the possibility to control and adapt processes.

Webinar - Project Management (ENGLISH)

Webinar - Project Management (SPANISH)

Project

- Edit project
  - Tasks
  - Budget
  - Activities
  - Purchase
  - Sales
  - Service
  - Attachments

Project template

Task catalog

Project cost elements

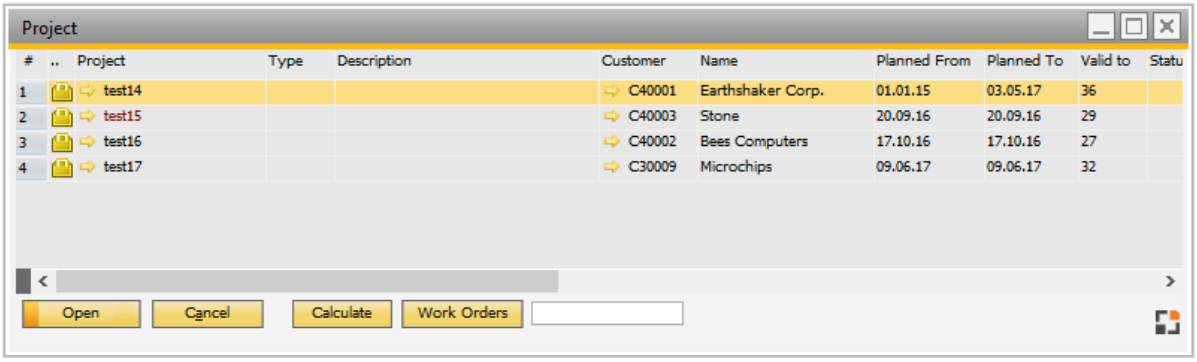
© 2026 Boyum IT Solutions A/S

Concepts

Project cost elements

All projects are displayed in the Project list. Inactive projects are hidden by default and can be viewed by using the Search field.

PATH: Production > Project.



Window prj_browse.psr

Functions

Function	Description
Search	Search field to find a project
Open	Open selected project.
Cancel	Close window without changes.
Add	Create new object.
Remove	Delete selected project.
Calculate	Calculate costs.
All calculate	Calculate all costs.
Work orders	Open linked work order.

Work orders

From the project list, you can access the assigned work orders. When adding a new project, Beas creates a work order automatically, to which tasks can be assigned later. Work orders are independent of projects. They can be edited and processed, even if the project was already closed or if there are no more open tasks.

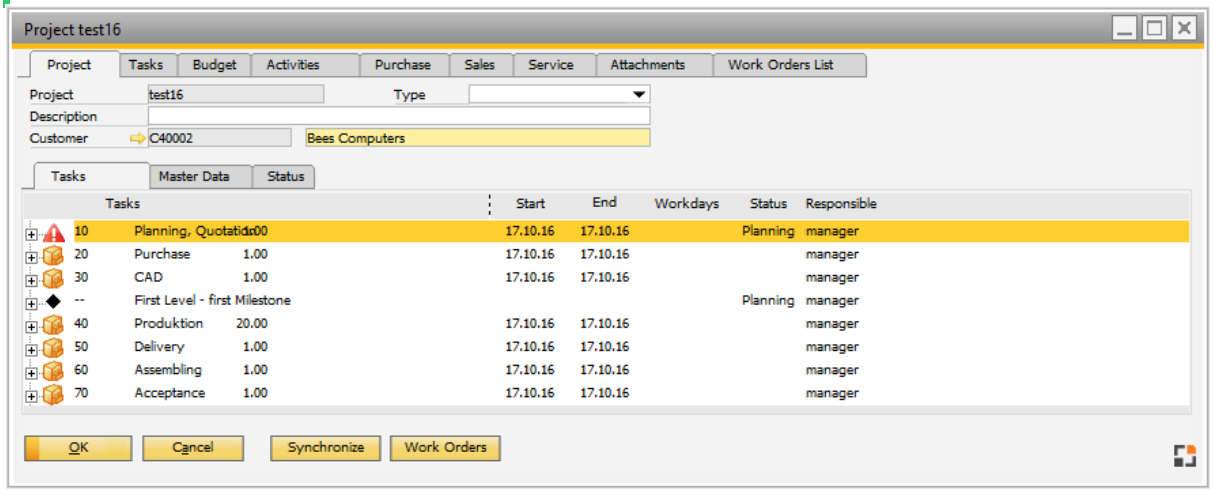
See:

© 2026 Boyum IT Solutions A/S

Configuration wizard – Project

8.3.1 Edit project

PATH: Production > Project > **Open** a project > "Project" tab.



Window prj_edit.psr

Upper tabs:

Project tab

Field	Description
Project	Assigned project number.
Type	Define the type of Project Here you can choose the Project Type If the Type does not exist, you can insert it manually. In drop-down field you can see all Project types, which you defined in all other existing projects. This is only an information field without additional functionality.
Description	Project description.
Customer	Business partner number and business partner name of the customer, assigned to this project. Note: It is possible to create projects for inactive business partners, as well.

© 2026 Boyum IT Solutions A/S

For further Upper tab descriptions ***see*** following chapters in this documentation:

Project

Edit project

Tasks

Budget

Activities

Purchase

Sales

Service

Attachments

Lower tabs

Tasks:

Under the tasks tab you can find the tasks defined for this project including start and end date, the number of planned work days, the task status and the responsible employee.

Click on an entry opens the window "Edit tasks"

Icon / : The entry is not checked.

Master data tab:

Field	Description
Customer	Business partner number of customer assigned to this project.
Name	Business partner name of customer assigned to this project.
Street	Street of customer assigned to this project.
Zip code	Postal code of customer assigned to this project.
Location	Location of customer assigned to this project.
Country	Customer country of residence.
Telephone	Phone number of customer assigned to this project.
Info 1/ Info 2	Information field on customer.
Project manager 1 / 2	Select employees from personnel master data.
Attachments	Use drop down field to define a folder to store project relevant data.
Image	Use drop down field to assign an icon to the project.
Color	Use drop down field to assign a color to the project.

© 2026 Boyum IT Solutions A/S

MS Project-Description	Project description, as in MS Project .
MS Project-Start	Start date of Projects in MS Project.
MS Project-End	End date of Projects in MS Project.
MS Project-File:	MS Project file.

Status tab:

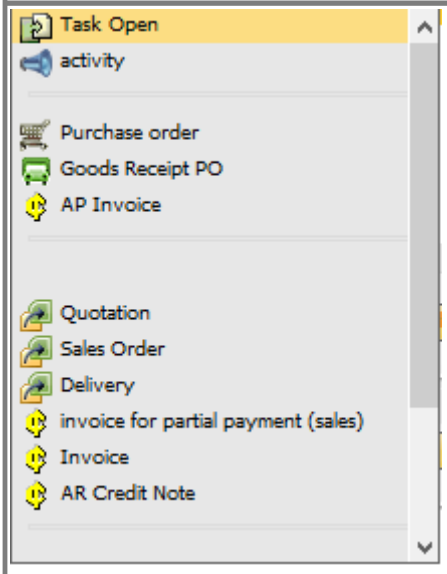
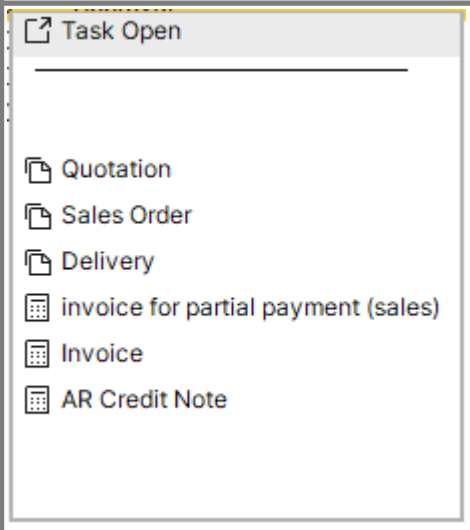
Field	Description
Start	Project start date.
End	Project end date.
Status	Use drop down field to assign a status to the project.
Locked	Set the flag to mark the project as "blocked".
Active	Set the flag to mark the project as "active". If removed, the project will be closed. A query is executed, whether to close related work orders as well.

Buttons:

Field	Description
Open	Open the task.
Synchronize	Synchronize current task list with the linked work order.
Work orders	Open Work order structure list and display all linked work orders.

Right-click menu:

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style
	

Field	Description
Task Open	Open the task.
Activity	- Only visible if Task > Extended > "Activity" is active. Opens the window to add new (SAP) activity.
Purchase order	- Only visible if Task > Extended > "Purchase" is active. Opens the window to add new purchase order (SAP).
Goods Receipt PO	- Only visible if Task > Extended > "Purchase" is active. Opens the window to add new Goods Receipt purchase order (SAP).
AP Invoice	- Only visible if Task > Extended > "Purchase" is active. Opens the window to add new AP invoice (SAP).
Quotation	- Only visible if Task > Extended > "Sales" is active. Opens the window to add new sales quotation (SAP).
Sales Order	- Only visible if Task > Extended > "Sales" is active. Opens the window to add new Sales order (SAP).
Delivery	- Only visible if Task > Extended > "Sales" is active. Opens the window to add new Delivery document (SAP).
Invoice for partial payment (sales)	- Only visible if Task > Extended > "Sales" is active. Opens the window to add new invoice for partial payment (SAP).
Invoice	- Only visible if Task > Extended > "Sales" is active.

© 2026 Boyum IT Solutions A/S

	Opens the window to add new invoice (SAP).
AR Credit Note	- Only visible if Task > Extended > "Sales" is active. Opens the window to add new AR Credit note (SAP).
New Work Order	- Only visible if Task > Extended > "Work Order" is active. Opens the window to add new work order.
New Configuration	- Only visible if Task > Extended > "Configurator" is active. Opens the new Variant creation window.
Order Time Enter	- Only visible if Task > Extended > "Order times" is active. Opens the Time Receipt window.
Order Times	- Only visible if Task > Extended > "Order times" is active. Opens the Time Receipts list window.

8.3.2 Task

Project

Edit project

Tasks

Budget

Activities

Purchase

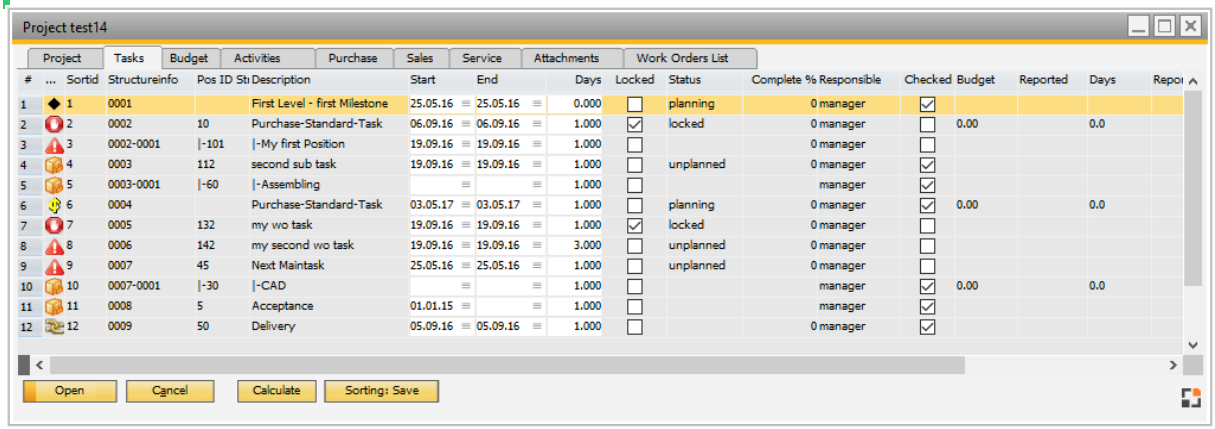
Sales

Service

Attachments

The displayed list gives an overview on all tasks for a project.

PATH: Production > Project > **Open** a project > "Tasks" tab.



Window prj_line_browse.psr

© 2026 Boyum IT Solutions A/S

Substructures can also be displayed here, by moving the position and description a bit to the right.
Window settings are supported.
The sequence can be changed via Drag&Drop. If a main task is moved, the whole substructure is also moved.

Field	Description
...	Free bitmap image selected in Task > Extended tab is displayed here.
Structureinfo	Structure information.
Sortid	Numeric order of task in the list.
Position	Task position.
Description	Task description.
Start	Planned start of the task.
End	Planned end of the task.
Days	Days planned for this task.
Locked	If the task is blocked, the task is marked with a Stop-Icon.
Status	Selected status for this task.
Complete%	Rate of completion.
Budget	Defined budget (costs) for this task.
Reported	Previously reported costs for this task.
Days	Planned days for this task.
Reported	Previously reported days for this task.
Responsible	Person in charge for this task.

Functions

Field	Description
Open	Open selected task.
Cancel	Close window without saving changes.
Calculate	Click this button, and the system reads all documents linked to the current project and fills all relevant information based on them.
Sorting: Save	Sort the items of the list via drag & drop, then click this button to save your fresh sorting.
Add	Add a new task. The function opens the Task editing window.
Remove	Delete task.

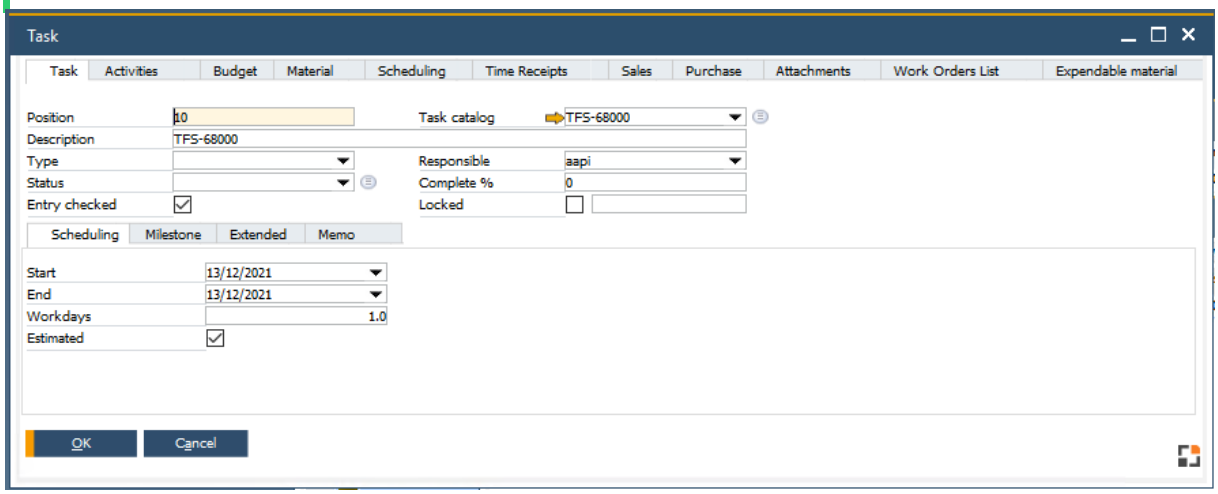
© 2026 Boyum IT Solutions A/S

Click on an entry to open the Editing window for this task.

8.3.2.1 Edit task

In this window you can edit a Project task / Project Template / Task Catalog.

PATH: Production > Project > **Open** a project >"Tasks" tab > **Open** a task from the list.



Window prj_line_edit.psr

Task tab / Master Data

Field	Description
Position	Position of the task. Can be alphanumeric, the number does not determine the order of processing. Order is set up by sorting with drag&drop in the list. Notes on data structure: `beas_prj_line.prjcode` = Project number `beas_prj_line.lineid` = Task ID (same number as in template) `beas_prj_line.pos_id` = Visible position number `beas_prj_line.sortid` = Sorting `beas_prj_line.prjuid` = Unique ID of the task over all projects. Used for linking to other documents.
Description	Task description.
Type	Type of task: Milestone or Standard.
Status	Status of the task.

© 2026 Boyum IT Solutions A/S

	Select a status. Only information, no function here. You can edit the statuses by pressing the selection icon. Values "complete%" and "blocked" are accepted after selection, but can still be changed afterwards. For more information, ***see*** Status
Entry checked	Determines whether an entry is marked as "checked". Unconfirmed tasks are marked with a warning, with icon .
Task catalog	Select a predefined task from task catalog. Visible when opened from Project Task and Project Template.
Responsible	Person in charge for this task.
Complete%	Determines the rate of completion for this task. In percent If in "Planning" tab - "Production % Processing" was not set to "manual", this field is blocked.
Blocked	Use this to block the task. When no more activities are possible, the task is marked with a Stop-Icon. Additionally, you can enter a blockage reason.

Tab: Task - Activities
Manage all activities assigned to a task. Create new and edit existing ones.

Tab: Task - Budget
All assigned budgets are displayed with planned and actual values (times and money). Use the "**Calculate**" button to display all related budgets.

Tab: Task - Material

Tab: Task - Purchase
This tab within a Project task is visible only if the option "Purchase" was selected under **Task > Extended**. All assigned purchase documents are displayed. Use "**Open**" button to open the purchase documents.

Tab: Task - Sales
This tab within a Project task is visible only if the option "Sales" was selected under **Task > Extended**. All assigned sales documents are displayed. Use the "**Open**" button to open the sales documents.

© 2026 Boyum IT Solutions A/S

Tab: Task - Scheduling
This tab within a Project task is visible only if the option "Scheduling" was selected under **Task > Extended**.

Tab: Task - Time receipt
This tab within a Project task is visible only if the option "Order times" was selected under **Task > Extended**. The resource selected for order time receipts is displayed. All reported order times are displayed. Use "**add**" to create new order related project times.

Tab: Task - Attachments
Manage attachments assigned to the task. Edit attachments and create new ones of type file or text.

Tab: Task - Work orders list
Work orders associated with the Task are listed in this tab. You can edit the WO document from here and create post-calculation for it as well.
This Project task tab is visible only if the option "Production" was selected under **Task > Extended**.

Tab: Task - Expendable material

Lower tabs

Scheduling tab:

Field	Description
Work days	Work days planned for the respective task.
Budget	Define a budget available for the task.

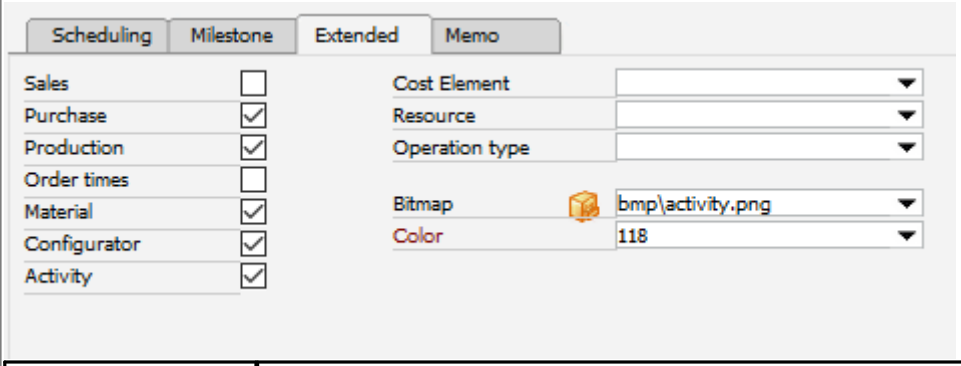
Milestone tab:

Field	Description
Milestone	Assign a mile stone to the task or define a new one using the selection icon next to the drop down field.
Acceptor 1,2	Acceptor 1 of the event defined in the milestone.
Text	Text, displayed to Acceptor.

Extended tab:

© 2026 Boyum IT Solutions A/S

In this tab you define, which documents can be created for which business objects.



Field	Meaning
Sales	When active, the following documents can be created from the task: Quotation, Sales order, Delivery, A/R down payment invoice, invoice, A/R credit memo.
Purchase	When active, the following documents can be created from the task: Purchase order, Goods receipt, A/P invoice.
Work order	When active, the following documents can be created from the task: work order.
Order times	When active, you can register or edit order times from the task. **Note:** Order times are meant to be project times not linked to a normal work order. This could be installation time, meetings or project administration. If the flag order times has been activated, the fields cost element, resource and operation type are important to be filled, because the order times are booked using the project work order.
Material	Without function.
Configurator	Activating this flag allows the creation of a configuration from the task (only if the product configurator is used).
Activity	Activating this flag allows the creation of an activity.
Cost element	Cost element assigned for this task.
Resource	Assigned resource for this task.
Operation type	Assigned operation type for this task.
Image	Select an image for the task to be displayed in lists.
Color	Select a color for the task to be displayed in lists.

Memo tab:

In the editor window you can edit and store task-specific texts.

© 2026 Boyum IT Solutions A/S

8.3.3 Budget

Project

Edit project

Tasks

Budget

Activities

Purchase

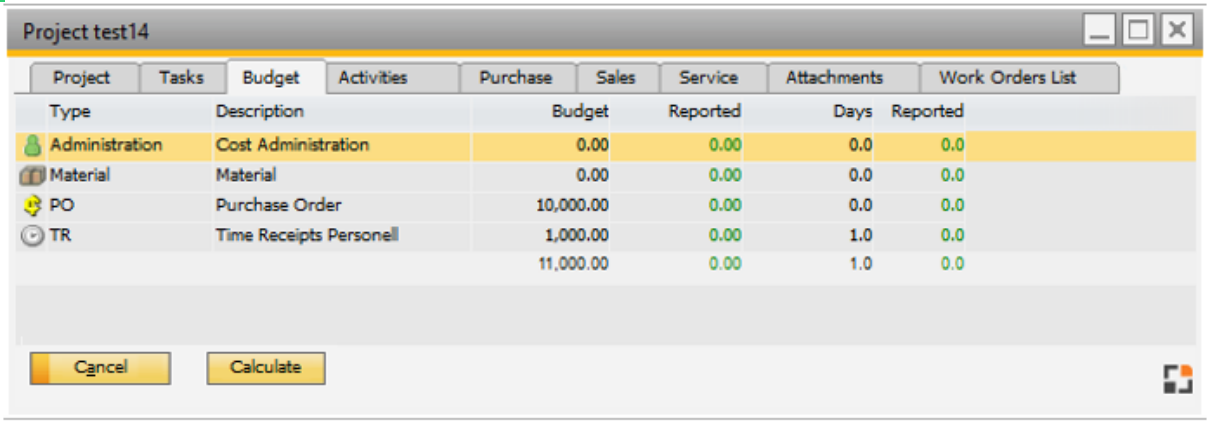
Sales

Service

Attachments

This tab displays all budgets which were defined for the tasks of the project.

PATH: Production > Project > **Open** a project > "Budget" tab.



Window prj_line_browse.psr

Field Descriptions

Field	Description
Type	Project cost element which defines the costs charged to the budget.
Description	Description of project cost element.
Budget	Amount of money planned for the project cost element.
Reported	Amount of money reported for the project cost element.
Days	Number of days planned for the project cost element.
Reported	Number of days reported for the project cost element.

© 2026 Boyum IT Solutions A/S

Button	Description
Cancel	Close window without saving changes.
Calculate	Recalculate columns "reported".

8.3.4 Activities

Project

Edit project

Tasks

Budget

Activities

Purchase

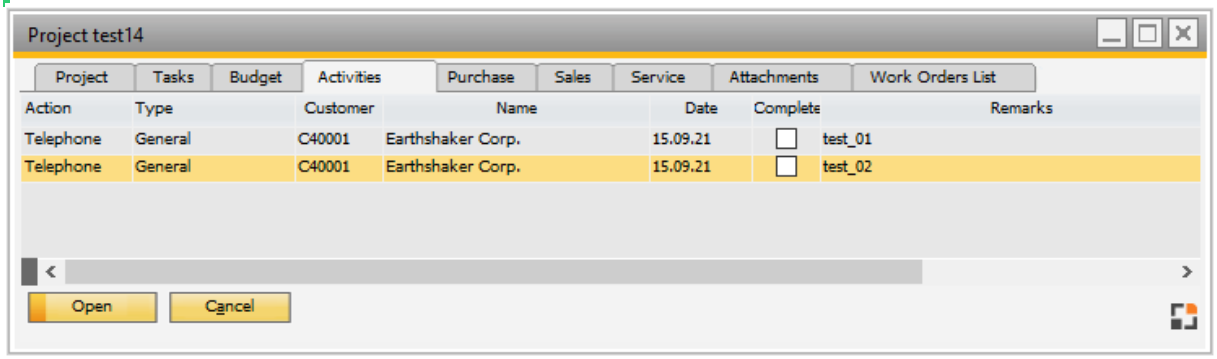
Sales

Service

Attachments

Manage all activities assigned to this project, edit and create new.

PATH: Production > Project > **Open** a project > "Activities" tab.



Window prj_line_browse.psr

For field descriptions ***see*** SAP B1 help.

The right-click function "**Add**" opens the window to create new activities in SAP B1.

8.3.5 Purchase

Project

Edit project

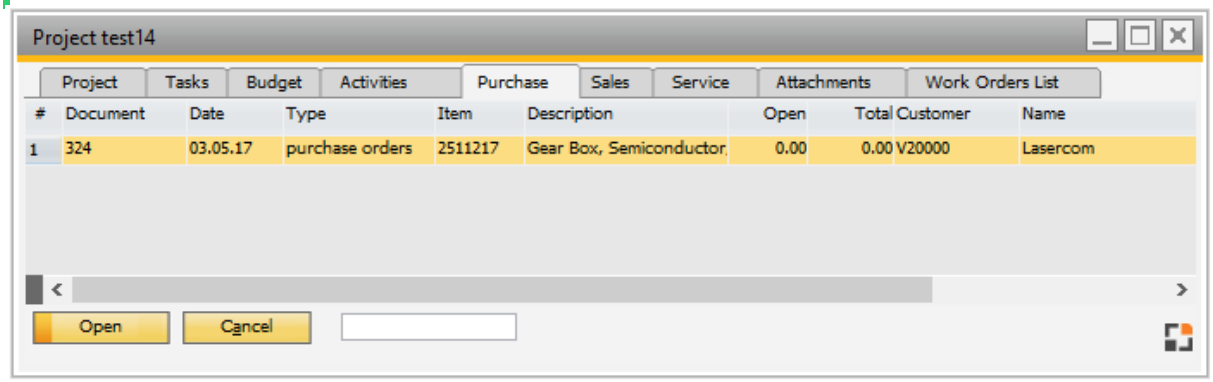
Tasks

© 2026 Boyum IT Solutions A/S

Budget
Activities
Purchase
Sales
Service
Attachments

In this area you can find all purchase items assigned to the project.

PATH: Production > Project > **Open** a project > "Purchase" tab.



Window prj_line_browse.psr

Columns

Function	Descriptions
Document	Document number
Date	Document date
Type	Type of document
Item	Item number
Description	Item description
Open	Open amount
Total	Total amount
Customer	Customer
Name	Complete customer name

8.3.6 Sales

Project

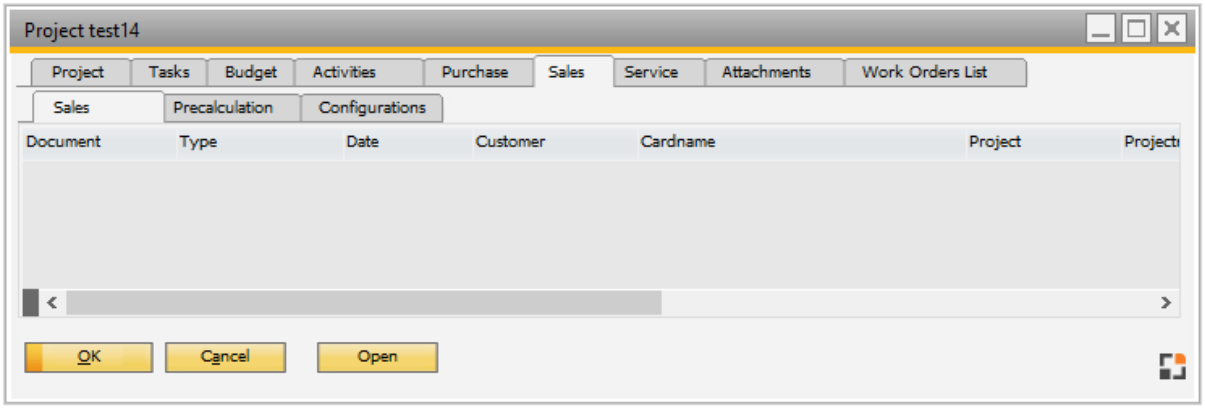
Edit project

© 2026 Boyum IT Solutions A/S

Tasks
Budget
Activities
Purchase
Sales
Service
Attachments

All sales items are displayed assigned to the project. The tab has three further tabs.

PATH: Production > Project > **Open** a project > "Sales" tab.



Window prj_line_browse.psr

Sales tab

In this tab it is possible to add new or edit an existing sales document.

Field	Descriptions
Document	Document number
Type	Type of document
Date	Document date
Customer	Customer ID
Card name	card name of supplier
Project	Project ID
Project name	Project name
Remarks	Free text

Precalculation

© 2026 Boyum IT Solutions A/S

In this tab it is possible to add new or edit an existing Precalculation.

Field	Descriptions
Document	Document number
Customer	Customer ID
Customer name	Customer name
Item	Item ID
Description	Description of Precalculation
Drawing number	Drawing number

Configuration

In this tab it is possible to add new or edit an existing Variant.

Field	Meaning
Variant	Variant ID
Item	Item ID
Designation	Item designation
Description	Item description
New item	
Date	

8.3.7 Service

Project

Edit project

Tasks

Budget

Activities

Purchase

Sales

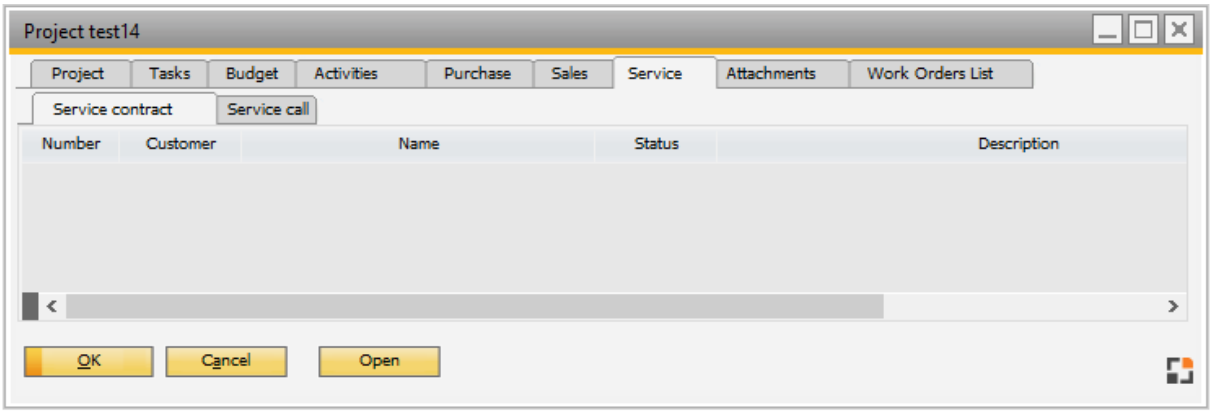
Service

Attachments

In the Service tab it is possible to add new or edit existing service documents. There are two further tabs to define the documents:

PATH: Production > Project > **Open** a project > "Service" tab.

© 2026 Boyum IT Solutions A/S



Window prj_line_browse.psr

Service contract tab

In the Service contract tab you can add new or edit existing service contracts.

Field	Descriptions
Number	Number of service contract in SAP B1
Customer	Customer to which the service contract was assigned
Name	Customer name to which the service contract was assigned
Status	Status of service contract in SAP B1
Description	Description service contract in SAP B1
Start	Start date of service contract in SAP B1
End	End date of service contract in SAP B1

Service call tab

In the Service call tab you can add new or edit existing Service calls.

Field	Descriptions
Number	Number of service call in SAP B1
Subject	Topic of service call in SAP B1
Status	Status of service call in SAP B1
Name	Name of customer, to which the service call was assigned to
Date	Creation date of service call
Complete	Date the service call was closed
Status	Status of service call in SAP B1
Contract	Contract number assigned to service call in SAP B1

© 2026 Boyum IT Solutions A/S

8.3.8 Attachments

Project

Edit project

Tasks

Budget

Activities

Purchase

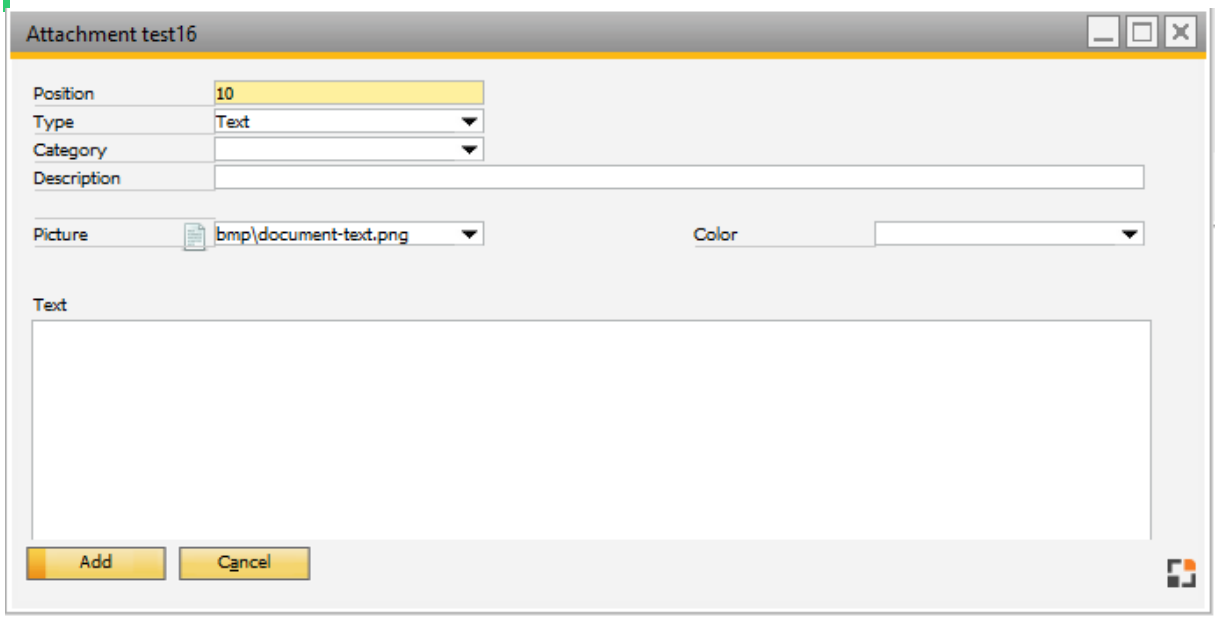
Sales

Service

Attachments

In this tab it is possible to add new or edit existing Project attachments.

PATH: Production > Project > **Open** selected project > Attachment tab > **Add** new attachment.



Window prj_attachment_edit.psr

Field descriptions

Field	Descriptions
Position	Position number.
Type	Text: Define the text in field "Text" (no attached file).

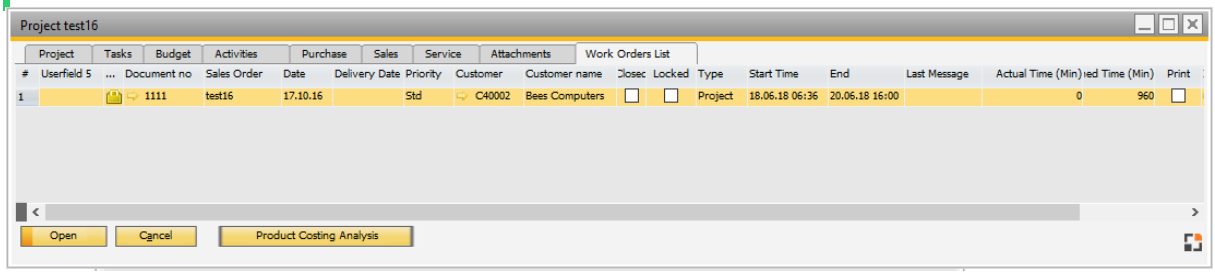
© 2026 Boyum IT Solutions A/S

	File: Choose the file which you want to link to this project.
Category	Define a category of your own choice for the attachment. All new category definitions are stored by the system and can be selected later for newer attachments from this dropdown.
Description	Description of attachment.
File	Select a file: This field is only available if type="File". After adding a file to the attachments, when you reopen it, the button **Creation Open** appears. The button opens the file with an associated program. ***For example***: a JPG file with an image viewer program, or Excel sheet with MS Excel. **Attention:** The system saves complete path + file. Choose only the Network folder so that other users may have access to it, as well.
Image	Bitmap image to link to the attachment.
Color	Define a color for the attachment to be displayed in.
Text	Enter text which you want to display. Only if Type = "Text".

8.3.9 Work Orders List

This tab provides a list of all work orders associated with the selected project.

PATH: Production > Project > **Open** a project > "Work Orders List" tab



Window fert_fthaupt_browse.psr

© 2026 Boyum IT Solutions A/S

Functions

Field	Descriptions
Open	Open selected work order.
Cancel	Close window without saving changes.
Product Costing Analysis	
Search	Open pop-up search window to get hits for the following information:
Add	Add new work order.
Reports	Opens the Reports window.

Field	Description
Order No	WO number
Only when active	Search for active orders only
Doc No	Document number
Customer Number	Customer Number
Customer Name	Customer Name
Project	Project
Type	Project type
Employee	Employee
Item	Item number
Drawing Number	Drawing Number
Material Group	Material Group
Raw Material	Raw Material
Matchcode	Matchcode
DIN	DIN code
only not printed	Search for not printed documents only
Search	Start search
Cancel	Close pop-up window without changes
New search	Start new search

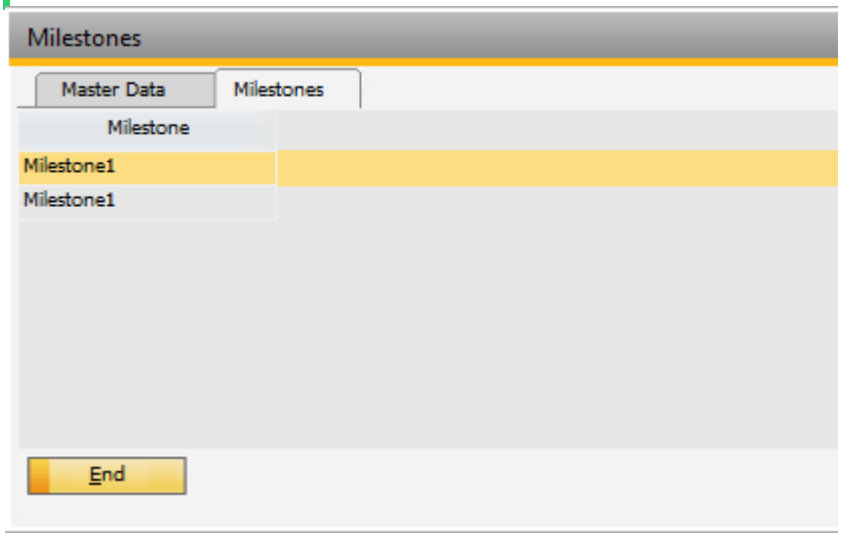
© 2026 Boyum IT Solutions A/S

Post calculation	Opens the post-calculation window.
Material requirements	Opens the WO material requirements report window.

8.4 Milestones

In operation, routing, production scheduling and in calculation, milestones can be added. These are predefined in **Production > Milestones**.
In Operation type the check mark "Milestone" is required. In the production routing, a date for the milestones can also be entered.

PATH: Production > Milestones



Window stamm_milestone_result.psr

Tabs:

Tab	Meaning
Master data	List of milestones.
Milestones	List of milestones stored in the routing positions. This list can be used for an analysis, exported to Excel, and filtered and sorted as necessary. This can be set up using the window settings.

Functions

© 2026 Boyum IT Solutions A/S

Open/Add: Open existing milestone or create a new one.
Remove: Remove selected milestone.

Milestones tab – Window settings entries:

Field	Meaning
Milestones	Milestone flag.
Description	Milestone description.
Document	Document.
Position	Assembly position.
WO Stat.	Position.
Resource	Resource ID.
Activity	Activity description.
Milestone date	Specified milestone date in the routing sequence (in the work order).
Plan date	Planned start date of the routing position.
Last Message	Last time receipt for this routing position.
Closed	Routing position closed?
Work Order	Work order - order number.
Customer Name	Customer Name.
Additional Text	Additional text in work order.
Item	Item number of the assembly to be produced.
Item Description	Item description of the assembly to be produced.
Drawing Number	Drawing number of the assembly to be produced.
DIN	DIN.
Raw Material	Raw Material.
Match Code	Match Code.
Material Group	Material Group.
Date of Print	Print date of the work order.
Date closed	Date the production position was closed.
Project	Project ID.

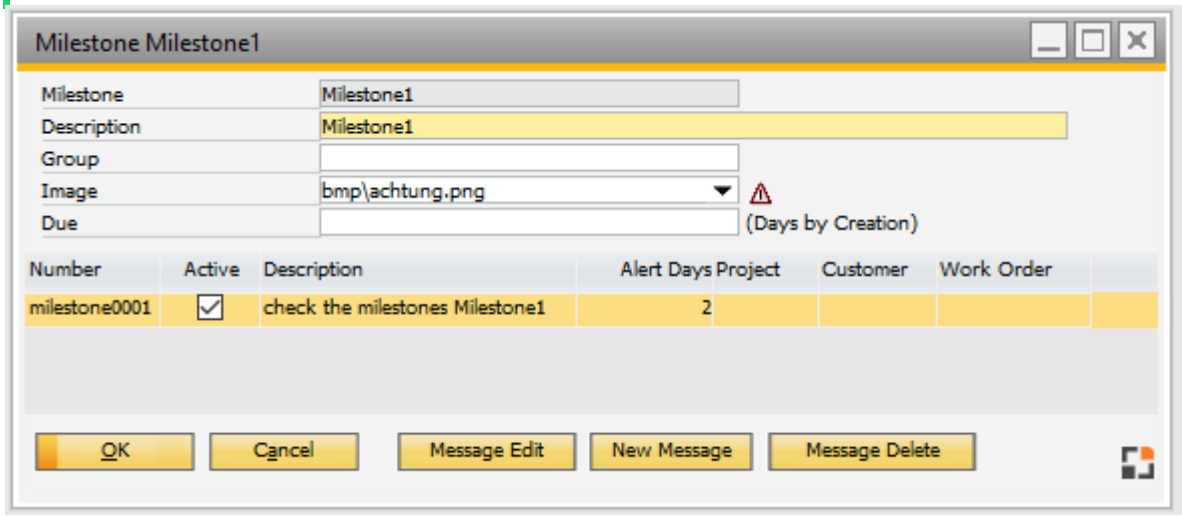
see Event control

© 2026 Boyum IT Solutions A/S

8.4.1 Edit Milestone

In this window you can edit / add new milestone.

PATH: Production > Milestones > **Open** an entry.



Window stamm_milestone_edit.psr

Field descriptions

Header

Field	Description
Milestone	Name of the opened milestone.
Description	The description of the milestone
Group	Group categorization
Image	Select icon to represent the milestone in list views.
Due (Days by Creation)	Due date of the milestone counted from the day of creation.

Lower Columns

Field	Description
Number	Milestone number
Active	Flag is active if it was set in the corresponding event.
Description	The description of the milestone.
Alert Days	Alert days
Project	The corresponding project

© 2026 Boyum IT Solutions A/S

Field	Description
Customer	The corresponding customer
Work order	The corresponding work order

Buttons

Message Edit / New Message: Open selected milestone event / create a new milestone.

Message Delete: Opens the selected milestone event with a prompt to confirm deletion.

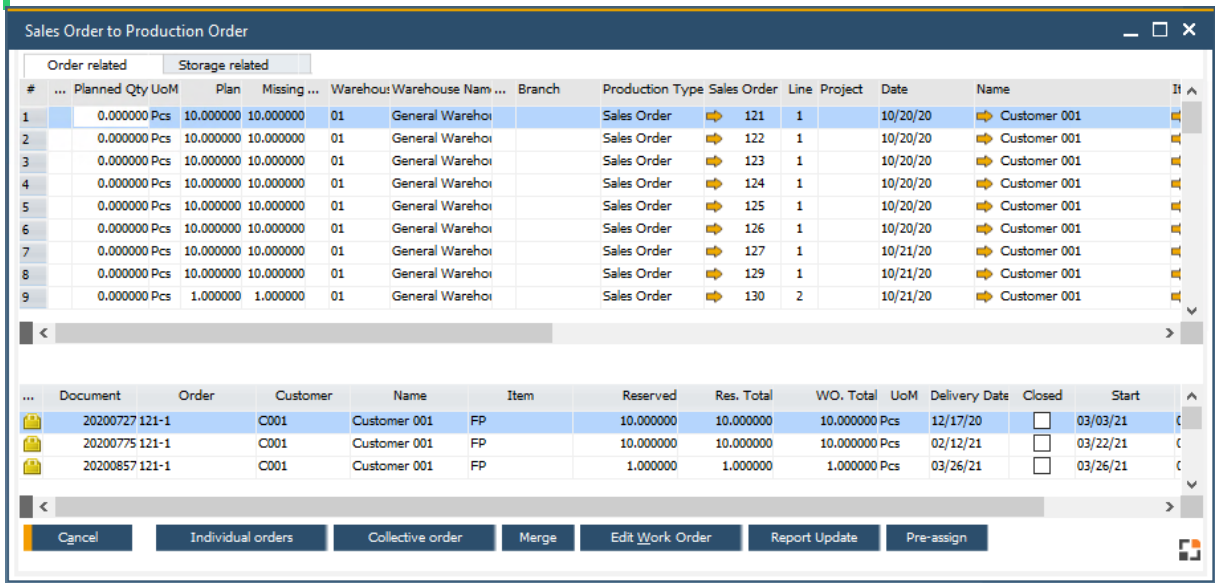
8.5 Sales order to Production order

In this window you can create new work orders based on Sales orders or Pre-invoices.
The list is dynamically adjustable; Window settings and templates are supported.
The windows are divided into 2 parts. In the upper area the customer orders are displayed and in the lower area work orders are displayed.

Tabs:

Tab	Description
Order related	Filter: list for order-related production. All customer orders and advance invoices including an order-related assembly are displayed.
Storage related	List for order-related production of stock-related items.

PATH: Production > Sales Order to Production Order window



fert_kdauftrag_zu_fertauftrag.psr

© 2026 Boyum IT Solutions A/S

Note: Duplicate items are not combined. This is not always desired due to structure production. Alternatively, the MRP run (inventory related production) can be used here.

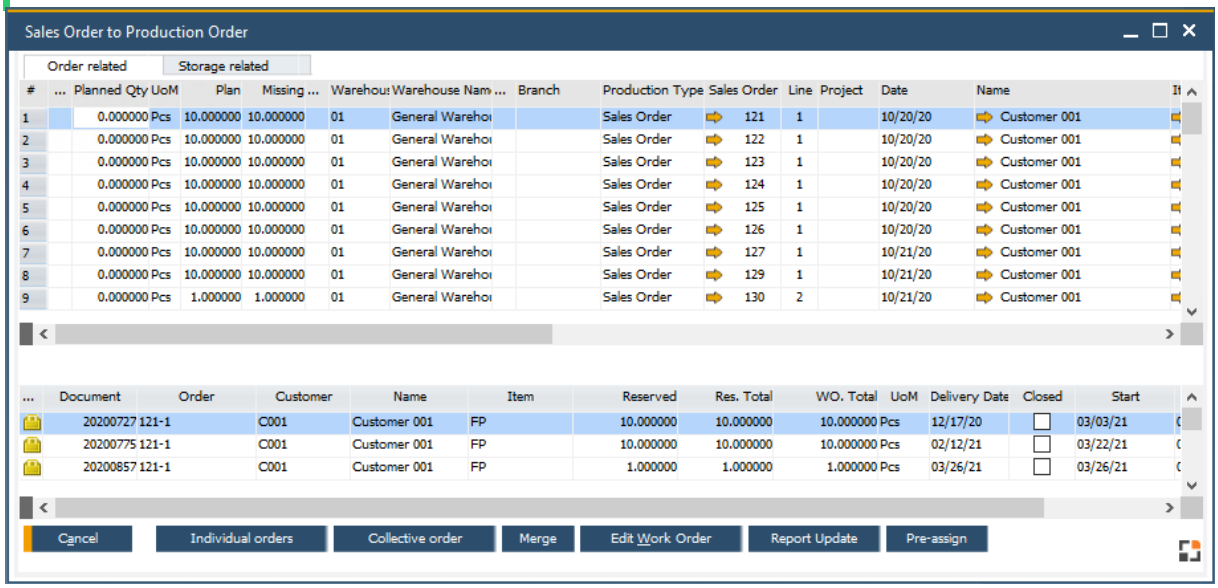
8.5.1 Order-related tab

This window can be used for order-related production, e.g. when working with the Product configurator, pre-calculation, variants or item version control.
Individual work orders are created based on information inside a sales order/pre-invoice.

Note: Only order-related items are visible in this list.
Window settings and templates are supported.

See Item-breakdown which are released for production and for which no or not enough work orders have been created yet. Warehouse reservations are considered, as well. The default filter can be changed. ***See*** Change default filter.

PATH: Production > Sales Order to Production Order window > Order-related tab.



Window fert_kdauftrag_zu_fertauftrag.psr

Note:

The list is only working correctly if **Configuration wizard > Production > Reservation > Reservation - Receipt reservation only at** is **not** disabled!

If Reservation is not active, the field "Missing" may malfunction. ***See*** field description Missing for more details.

© 2026 Boyum IT Solutions A/S

- SAP Business One BoM

Items containing a SAP Business One – BoM, are displayed only if the stored BoM is not of type "Set", "Template" or "Assembly". The type "Production" allows for a subsequent change to Beas. SAP Business One-BoMs are not considered. (OITM.TreeType must not be S, T or A).

- Notes on Templates

This list provides information on reserve invoices and sales orders.

If additional fields are defined in the template, these refer to sales orders and reserve invoices *(beas 9.3 PL 0)*.
The stored SQL instruction uses a UNION ALL – instruction for this purpose. For this reason, there are restrictions.

- Sorting and filtering is possible within the result. Only the "DataWindow" variant can be used for this purpose (Field sorting (DW) / Filter (DW)
- Additional fields are supported. However, fields from ORDR/RDR1 are not possible due to UNION ALL.

Instead `header` for field from ORDR or OINV and `line` for fields from RDR1, INV1
New fields for templates via header and line are therefore equally possible for customer orders and invoices.

Example: `line."ItemCode"`

Field description

Field	Description
...	Barrel icon: At reservation, it displays the already produced quantity.

Traditional style	Boyum Style	Description
		Grey: goods produced, but planned quantity not reached. In Boyum Style (Beta): an empty barrel.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Traditional style</th><th>Boyum Style</th><th>Description</th></tr>
<tr><td> </td><td>
 </td><td>Green: required planned quantity produced. In Boyum Style (Beta): barrel with a check mark in the right bottom of the icon.

Red overflown: too much produced. In Boyum Style (Beta): barrel with an exclamation mark in the right bottom of the icon.</td></tr>
</table>
</td></tr>
<tr><td>Planned quantity</td><td>Entry field: Quantity of units to be produced (enter manually).</td></tr>
<tr><td>UoM</td><td>Inventory unit of measure</td></tr>
<tr><td>Plan</td><td>Total quantity as per customer order or advance invoice in warehouse units.</td></tr>
<tr><td>Missing</td><td>Present the missing quantity.
Display the missing quantity.
Beas calculates this quantity as follows:

Reservation system is active
In Configuration wizard > Production > Reservation - Receipt reservation only at you can activate the reservation system. If this is activated and it is a stock related item, Beas calculates as follows:
<code>Open Quantity from Sales order / Pre Invoice
- Reservations (linked to Work order and Sales order)</code>
If you create a work order, Beas creates the reservation for sales order linked to the work order automatically.

If you create a receipt document for the produced assembly, Beas converts the reservation to a stock warehouse. In this way the result is always correct.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description

Non Stock items

```
Total quantity from Sales order / Pre Invoice order
- manual reserved quantity (RDR1.U_beas_von_lag)
- Total quantity from linked work order
```

It is not possible to see an actual view.

Reservation system disabled.

Calculation of this field

```
Open quantity from Sales order / Pre Invoice order
- manual reserved quantity (RDR1.U_beas_von_lag)
- Total quantity from linked OPEN work order
+ Booked quantity from linked OPEN work order
```

Without reservation it is not always possible to calculate the missing quantity in the correct form.

If work order is closed, the system ignore this work order

Example:

Action	Order Quantity	Open Quantity	Open Work order	Booked	Missing
Sales order 100 Pcs created	**100**				100
Work order 60 Pcs created	100	100	**60**	0	40
Receipt assembly 30 Pcs	100	100	60	**30**	70
Assembly delivered 30 Pcs	100	**70**	60	30	40

© 2026 Boyum IT Solutions A/S

Field	Description

Action	Order Quantity	Open Quantity	Open Work order	Booked	Missing
Work order closed	100	70	**0**	0	70

If you receipt the assembly in stock, the "missing quantity" is wrong.
After the creation of Deliver document, the missing quantity is correct again.

Explanation:
If the assembly is in stock, Beas cannot see which sales order this assembly is reserved for. The reservation system is disabled. If you have a work order related without reservation, you **must create the delivery document as fast as possible.**

Merged work orders
If you merge a work order, the assemblies are inside Bill of Materials position.
Beas displays only full quantity at all times. Not working with full quantity will result in wrong figures.

Action	Order Quantity	Open Quantity	Work order	Booked	Missing
Sales order created	100				100
Work order created	100	100	60	0	40
Receipt assembly	100	100	60	30	40

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Action</th><th>Order Quantity</th><th>Open Quantity</th><th>Work order</th><th>Booked</th><th>Missing</th></tr>
<tr><td>Assembly delivered</td><td>100</td><td>70</td><td>60</td><td>30</td><td>40</td></tr>
<tr><td>Work order closed</td><td>100</td><td>70</td><td>0</td><td>0</td><td>70</td></tr>
</table>

Note:
If reservation is disabled, this field is not always working correctly.
In this case it is important to create the Sales Delivery directly after the Receipt of the Item.

It is recommended to work with reservations if you work order-related.

In MRP you will get a different result, because the MRP does calculation per warehouse and not per sales order.
</td></tr>
<tr><td>Work order type</td><td>Default: type defined in configuration wizard, possible to select another type.
To do so, change field properties to "changeable" in window settings.</td></tr>
<tr><td>Quantity from Inventory</td><td>How much should be taken from inventory. This quantity is not further broken down in the MRP run. Quantity is specified in units of store.
Option is only considered if receipt reservations are not used.</td></tr>
<tr><td>Warehouse</td><td>Storage location stored in the customer order.
Note: If you create a work order, the system use the standard rules for the work order warehouse.</td></tr>
<tr><td>Inventory</td><td>Inventory in the storage location stored in the customer order.</td></tr>
<tr><td>Total Inventory</td><td>Total inventory across all stores.</td></tr>
<tr><td>Item</td><td>Item name.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
Quantity	Quantity.
Reserved	Is it reserved?
Factor	Use factor.
Variant	Variant ID. Changes here affect only this customer order.
Configuration	Number of configuration with orange arrow for direct access.

Additional fields

Field	Description
UoM	Unit of measurement. ***See*** Inventory UoM.
Sales Order	Number of sales order.
Origin	Preceding document.
Row	Row of sales order.
Date	Date of sales order.
Quantity	Order quantity – not yet delivered.
Item	Item number.
Description	Item description.
Delivery date	Delivery date of sales order.
Desired delivery date	Desired delivery date. (*field rdr1.U_beas_requestdel*).
Delivery confirmed	Check marked if confirmed. (*field rdr1.U_beas_delconfirm*)
Released for production	Check marked if released for production. (*field rdr1.U_beas_delconfirm*)
Released	Customer order released for delivery ? (*field rdr1.U_beas_delconfirm*)
Customer reference no	Optional, if reference number exists.
Project	Indicated if applicable.
Customer	Customer name.
Drawing number	Indicated if applicable.
Clerk	Person in charge "owner".
Ordered	Already ordered?
Sales order quantity	Current quantity in open sales orders (SAP-B1 reservation system, *field oitm.iscommited*).
Release production	Confirmation of delivery date from production. (*field*

© 2026 Boyum IT Solutions A/S

Field	Description
	rdr1.U_beas_requestdel)

Lower area work order

All work orders are displayed which are linked to the customer order selected above. The behavior of the reservation is set up in: **Configuration wizard > Production - Reservation – Receipt reservation only at**

Field	Description
Document	Work orer document.
Customer	Customer from customer order.
Order	Work order number.
Name	Customer name .
Item	Item to be produced.
Reserved	Reserved goods for the selected customer order. It deviates from "WO total" quantity only if receipt reservations are used. If in this case an assembly is posted in, the receipt reservation is reduced and a warehouse reservation is created.
Res.total	Total quantity assigned to the selected customer order It is the quantity which was assigned based on the link from customer order to work order. It deviates from "WO total" quantity only if receipt reservations are used. Only then can you assign an arbitrary quantity or subset to a customer order – independent from the quantity to be produced.
WO total	Total quantity from work order.
Delivery date	Delivery date as per work order.
Closed	Work order position closed?
Start	Planned start.
End	Planned end.
Locked	Work order locked.

© 2026 Boyum IT Solutions A/S

Note:

The list does not include the inventory with the suggested "SHORTFALL" quantity. It is optimized for order-related production.

Right-click menu / Buttons

Function	Description
Filter	There are 3 different criteria according to which the customer orders can be filtered: Only Orders with Shortage All not completely delivered
Cancel	Closes the window "Customer order for work order".
Individual orders	A separate work order is generated for each customer order line.
Collective order	A single work order is generated for all selected customer order lines.
Merge	Merges several work orders into one. ***See*** merge.
Edit Work Order	Allows the customer order to be edited.
Inventory history	Opens inventory history.
Report Update	Updates the lists.
Pre-assign	Quantity to be produced is filled in automatically.

Change default filter

The default filter can be changed
- via Template: define additional filters
- via Script: set up a basic filter

2 variables are available
`is_orderrelated_masterfilter` = contains default filter
`restmenge > 0 and oitm_u_dipso='A'`
(Remaining quantity >0 and item is order related)
`is_prodrelease` = contains a second filter, which will be consider pressing button "Filter"
`oitm_u_beas_prodreleas='Y'`
(Release item for production)

Use this script to display items which have not been not released for production
for MSSQL:

© 2026 Boyum IT Solutions A/S

```
windowevent formload
setvar=is_orderrelated_masterfilter=restmenge>0 and oitm_u_dispo='A'
setvar=is_prodrelease=
end event
```

for HANA:

```
windowevent formload
setvar=is_orderrelated_masterfilter=restmenge>0 and oitm_u_beas_dispo='A'
setvar=is_prodrelease=
end event
```

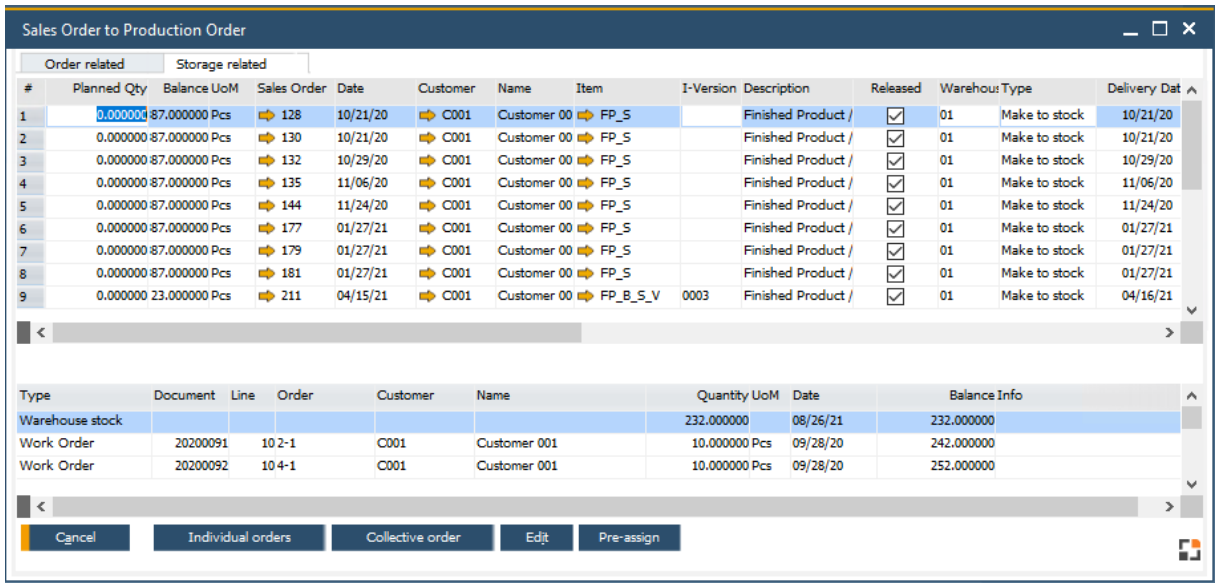
back to Sales order to work order

8.5.2 Storage-related tab

PATH: Production > Sales Order to Production Order window > Storage-related tab.

This tab displays all customer orders and advance invoices which include an storage-related assembly.

See Item – breakdown.



Window fert_kdauftrag_zu_fertauftrag_bgrp.psr

Note: The Order recommendation report is normally used for storage-related customer orders, because this provides a view on orders – not on stock.

Field description

© 2026 Boyum IT Solutions A/S

Field	Description
UoM	Unit of measurement. ***See*** Inventory UoM.
Sales Order	Number of sales order.
Origin	Preceding document.
Row	Row of sales order.
Date	Date of sales order.
Quantity	Order quantity – not yet delivered.
Item	Item number.
Description	Item description.
Delivery date	Delivery date of sales order.
Desired delivery date	Desired delivery date. (*field rdr1.U_beas_requestdel*).
Delivery confirmed	Check marked if confirmed. (*field rdr1.U_beas_delconfirm*)
Released for production	Check marked if released for production. (*field rdr1.U_beas_delconfirm*)
Released	Customer order released for delivery ? (*field rdr1.U_beas_delconfirm*)
Customer reference no	Optional, if reference number exists.
Project	Indicated if applicable.
Customer	Customer name.
Drawing number	Indicated if applicable.
Clerk	Person in charge "owner".
Ordered	Already ordered?
Sales order quantity	Current quantity in open sales orders (SAP-B1 reservation system, *field oitm.iscommited*).
Release production	Confirmation of delivery date from production. (*field rdr1.U_beas_requestdel*)

Additional field description

Field	Description
Balance	Balance of in and outflow.
Order Quantity	Order quantity.
Remaining Qty.	Remaining quantity.
Inventory	Inventory stock.

© 2026 Boyum IT Solutions A/S

Total sales Order	Total quantity of the current sales order.
Production	Quantity currently in production.
Minimum Inventory	Minimum inventory.
Lead T.	Replenishment time.
Match Code	Match code.
Raw Material	Raw material.
DIN	German industry standard code.

Functions

Function	Meaning
Cancel	Closes the window "Customer order for work order".
Individual orders	A separate work order is generated for each customer order line.
Collective Order	A single work order is generated for all selected customer order lines.
Edit Work Order	Allows the customer order to be edited.
Pre-assign	⊟ Open sales order quantity is pre-assigned as planned quantity. The open sales order quantity is pre-assigned as planned quantity. As open quantity counts the quantity not yet delivered. There is no order related production. That why, work orders are not linked to sales orders. Note: because it is not order related, it may happen, that too much is produced. *(beas9.0-004-048-000)*

⊟ Notes on Templates

In the list sales orders (ORDR,RDR1) and advance invoices (OINV,INV1) are displayed. 6 available fields are considered only for sales orders. For sorting and filtering, use "UNION ALL". Use sorting or filtering only on data window level.

back to sales order to work order

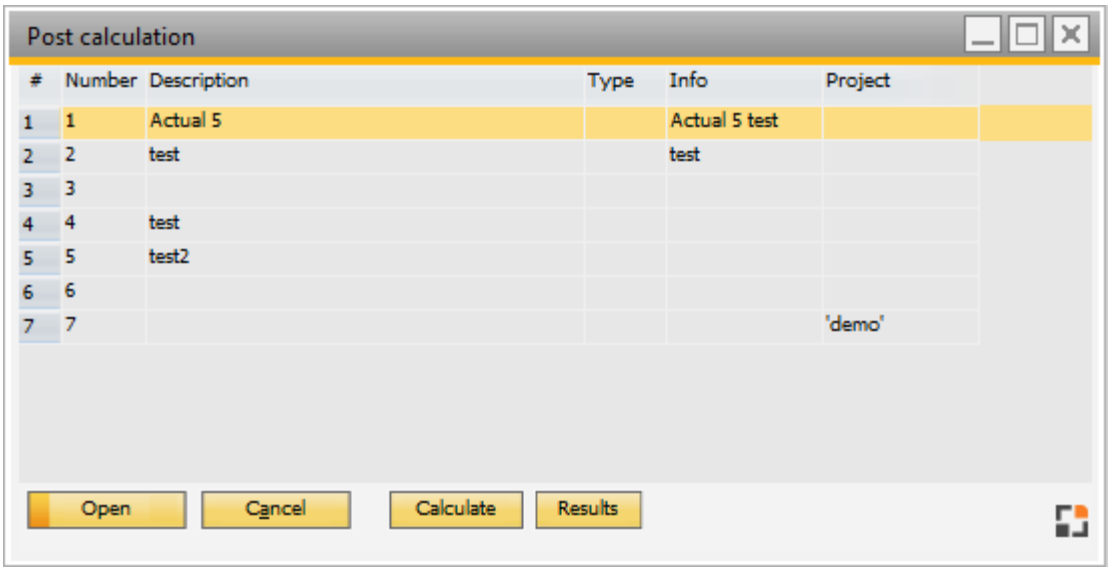
© 2026 Boyum IT Solutions A/S

8.6 Post calculation

In this window different work order calculation schema can be defined, calculated and the result can be displayed.
You can set up valuation method, period and other parameters.

Post-calculation - List

Post-calculation - Master data
Post-calculation - Results
Post-calculation - Details on calculation
Results profit centers
Results detail



postcalc_header_browse

The list is adjustable, window settings and templates are supported.
Use the "**Results**" button to view the results of the above selected calculation.

For field description ***See*** Post-calculation – Master data

Authorization:
For calculation / view the authorization Batch-post-calculation is required.

See

Structure windows

© 2026 Boyum IT Solutions A/S

Post-calculation – Concept

8.6.1 Post-calculation master data

In this window you can define which work orders are calculated (Selection tab) and how the calculation takes place (Calculation tab)

Post-calculation - List

Post-calculation - Master data

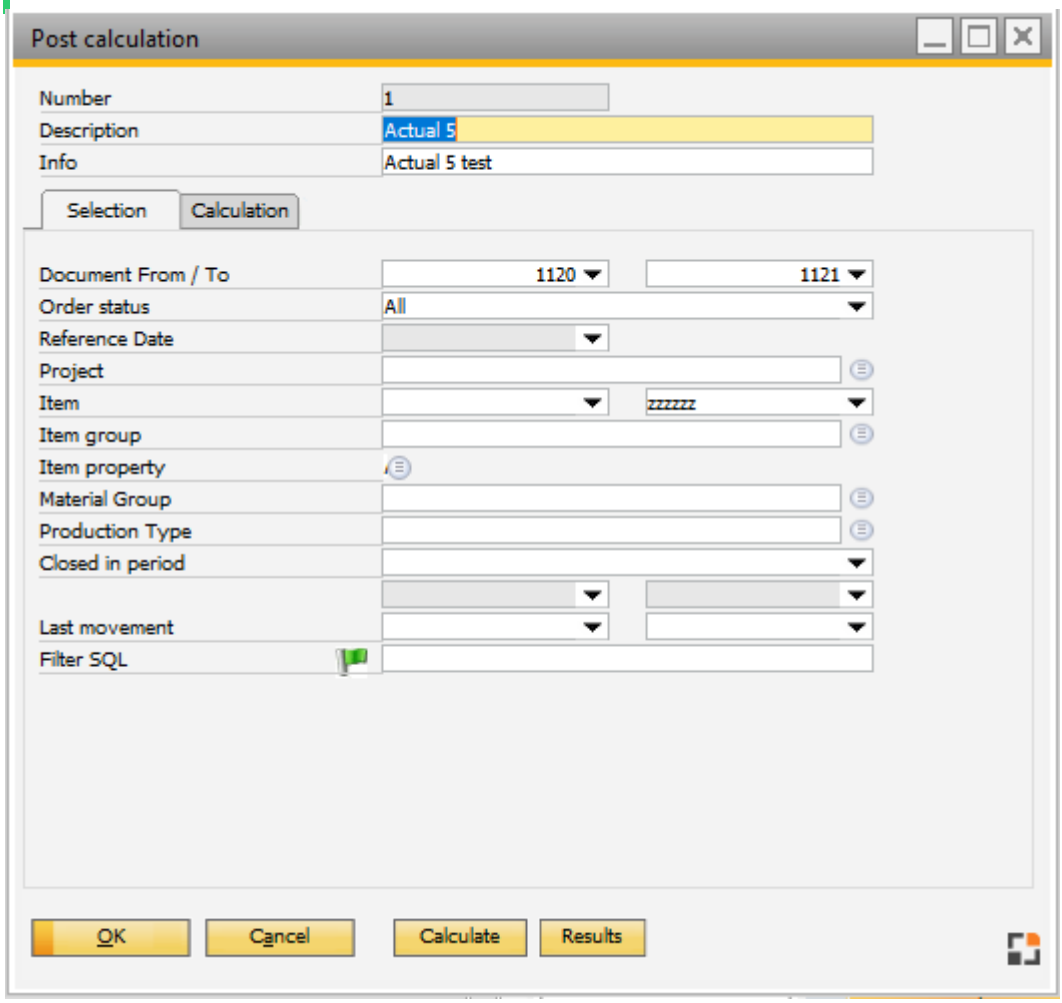
Post-calculation - Results

Post-calculation - Details on calculation

Results profit centers

Results detail

PATH: Production > Post calculation > **Open** calculation.



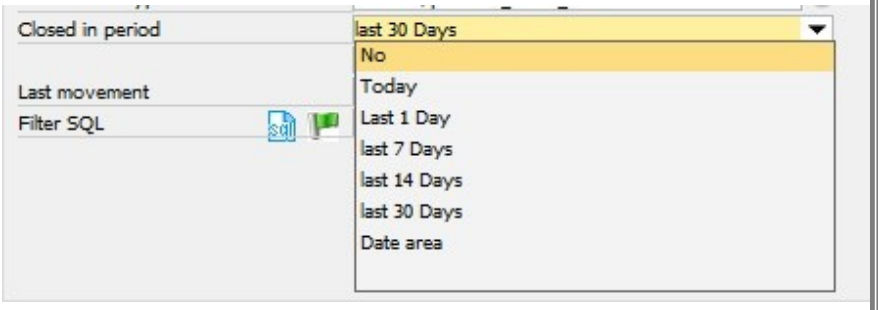
Window postcalc_header_browse.psr

© 2026 Boyum IT Solutions A/S

Selection tab

Field	Description
Number	The calculation is saved with this number.
Description	Free text.
Info	Additional information.
Document number from to	Select for items to perform a post-calculation. If in field "from" a number is entered, this limits the field "to" (no earlier number may be entered there).
Order status	Status of the work order. Filter **all** = independent of manufacturing status **only open** = only production items that are not completed **only closed** = only production items that are currently closed **active on reference date** = only production items that will be active by the given date (***see*** below) With this selection, the "type" is set to "single step" automatically.
Reference date	Date for order status "active on due date". If this filter is set, only the following work order items are considered: - WO items that have a document date before the given date (***See*** Work order - Order date). - WO items that are currently **active** or which have been **closed** after the reference date The date of completion of the work order is checked. This field can be selected only if "active on reference date" was selected at "order status". Note: Re-open closed work order positions. If a closed work order position is re-opened subsequently, the result can be falsified, because the period is not saved in which the position was opened and closed again.

© 2026 Boyum IT Solutions A/S

	⊟ Canceled order times. If an order time entry is canceled or deleted, it will be treated as deleted. ***Example***: Order time registered for 1.5.2015, canceled 1.6.2015 Reference date is 10.5.2015 – the order time is not considered, although it existed on 10.5. ⊟ Problems with production type different than "single step". If another type than "single step" was selected, sub-assemblies are always calculated, even if these were not active on the reference date. ***Example***: `Pos 10` Open `Pos 20` closed, out of reference date Running a calculation of type "standard" or "accumulated" position 20 is included in the calculation.
Project	Project Id (optional) (Multiple selection).
Item from to	For which items to perform a post-calculation.
Item group	Filter by item group (Multiple selection).
Item property	Selection for properties (Multiple selection).
Material group	Selection of material group (Multiple selection).
Production types	Selection of Production types (Multiple selection).
Closed in period	⊟ Only production items that were closed in the period defined there. It is possible to define a time period – today, last X days or a date area 

© 2026 Boyum IT Solutions A/S

	If Date area is selected, it is possible to insert a from–to date. **Attention**: The post calculation checks only the last "close date". If the user reopens the work order and closes it later again, Beas ignores the first "close date". *Beas 9.3 PL 1*
Last movement	Filter: only work orders with movements in the given period. The valuation date is considered for material posting, external operation – delivery notes and for Order time receipts.
Filter SQL	Define an own filter. Here you can define an own filter with an SQL statement. If you click on the SQL icon, you can define this in a simple way in the sql editor. The flag displays if the SQL statement is correct or incorrect: red = wrong, green = correct. The following tables are available: Work order header: *BEAS_FTHAUPT* Work order position: *BEAS_FTPOS* Item: *OITM* The command must start with "and"- ***Example***: Only work orders with the word "red" in field "UDF1" `and "BEAS_FTPOS"."UDF1" = 'red'` *Beas 9.3 PL: 01*

Calculation tab

Field	Description
Type	Type of calculation. ***See*** WO post calculation - Type.
Value assemblies	Determines the valuing of sub-assemblies

© 2026 Boyum IT Solutions A/S

	See Configuration wizard - post calculation - assembly .
Valuation to	Defines the value at which the material postings are valued. ***See*** Pricing-Types.
Resource cost rate	Defines which cost rate to use for resource valuation Standard: no entry, planned and actual values are used. If a cost rate is selected, planned and actual values are valued at this cost rate. ***See*** Cost rates.
Schema	Selected calculation schema (from Precalculation). All settings are transferred (e.g. cost types, surcharges etc.).
Valuation price date	The valuation period can be set for long-running projects. Only the costs occurred in the specified period are calculated. **Warning**: If this function is used, a plan-actual comparison is no longer useful. If "Plan=Actual if no time receipt" is active in the options, this will lead to false results.
Purchase order valuate	If this switch is enabled, purchase orders are considered as actual costs. (No need to wait for Purchase invoice).
Material always to Planned costs	When active, material cost is considered as planned cost.

Functions

Button	Description
Calculate	This button runs the calculation. As it is not performed in the background, it may take long depending on the number of work orders. Notes on automatic calculation Post-calculation can be run automatically, for example once a week, at night etc. ***See*** tasks. Call up via BeasScript `object=ue_fert_naka=batchnaka=x` x = Number of post-calculation ***Example***

© 2026 Boyum IT Solutions A/S

	`beas.exe user=serveruser pw=xyz /db=trainingdb object=ue_fert_naka=batchnaka=3<cr_lf>app=close`

back to post-calculation

8.6.2 Post-calculation results

View of Post-calculation – Calculation results

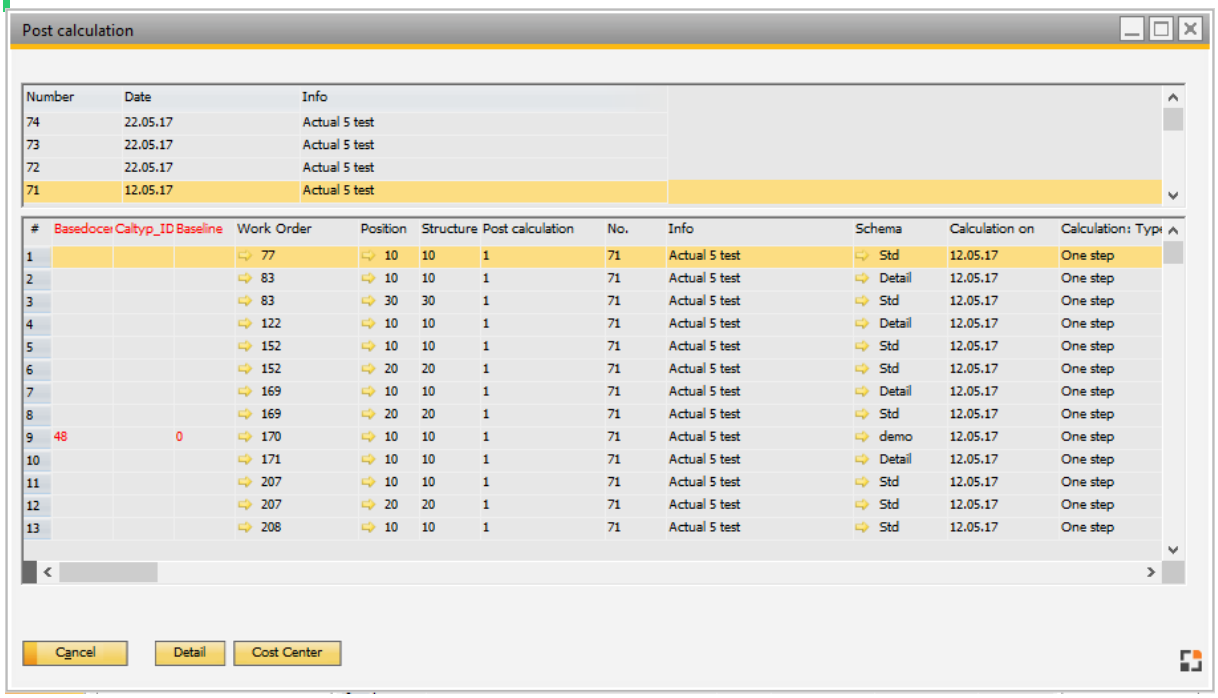
Post-calculation – List
Post-calculation – Master data
Post-calculation – Results
Post-calculation – Details on calculation
Results profit centers
Results detail

Upper area: selection of calculation

Lower area: Detailed results

Window settings are supported.

PATH: Production > Post calculation > select calculation > click **Results**.



Window postcalc_line_master.psr

© 2026 Boyum IT Solutions A/S

Overview of the most important fields:

Work order	Work order number
Position	Work order position
Structure	Structure information, example 10-30 (30 is sub position from 10)
Post Calculation	Batch Calculation Id
No.	Calculation Number (unique number)
Info	Information field
Schema	Calculation schema
Calculation on	Calculation date
Calculation: Type	Calculation Type (example: one step)
Valuation: Type	Valuation type
Valuation to / From	Valuation period (date from/to)
Resource Cost Rate	Id from Resource Cost Rate (empty = Standard resource codst)
Item	Item code
Description	Description of item
Drawing number	Drawing number from item
Origin Type	Type of the original document - Sales order, Work order
Origin Document	Document number
Quantity Plan / Actual	Planned quantity according to the work order / Sum of postings to this assembly including completed quantities manually reported in the position
Time Plan / Actual	Total of planned and actual time
Material Actual / Plan	Actual / Planned Material
Material Total MargCosts/FIX/Full - Actual/Plan	Material costs for marginal/full costs of respective plan and actual value.
Surcharge for material MargCosts/FIX/Full costs - Actual/Plan	Surcharge for material costs for marginal/full costs of respective plan and actual value.
External Production MargCosts/FIX/Full - Actual/Plan	External Production costs for marginal/full costs of respective plan and actual value.

© 2026 Boyum IT Solutions A/S

Work order	Work order number
Production Surcharge Full Costs/MargCosts/FIX - Actual/Plan	Production surcharge costs for marginal/full costs of respective plan and actual value.
Production Total MargCosts/FIX/Full Costs - Actual/Plan	Production costs for marginal/full costs of respective plan and actual value.
Manufacturing Total MargCosts/FIX/Full Costs - Actual/Plan	Manufacturing costs for marginal/full costs of respective plan and actual value.
Cost of Sales MC/FIX/FC - Actual/Plan	Sales cost related to calculation schema
Net MargCosts/FIX/Full Costs - Actual/Plan	Net price related to calculation schema
Gross MargCosts/FIX/Full Costs - Actual/Plan	Gross price related to calculation schema
Production: Type	Production type
Customer	Customer code
Customer name	Customer name
Order	Order document
Project	Project number
Additional text	Additional text
Project Manager 1,2	Project Manager 1,2
Project Status	Project Status
Templatefields	template fields
Userfields	user-defined fields

Functions in the view

Remove	The row is removed from the view. No data are deleted.
Filter	Number of structure steps to be displayed. Use this to hide sub-assemblies in the display.
Detail	Display the results for currently selected production item (lower screen) in calculation schema ***See*** Results detail.

© 2026 Boyum IT Solutions A/S

Remove	The row is removed from the view. No data are deleted.
Cost center	Open result window with cost center view for the currently selected item. ***See*** Post-calculation- profit centers.

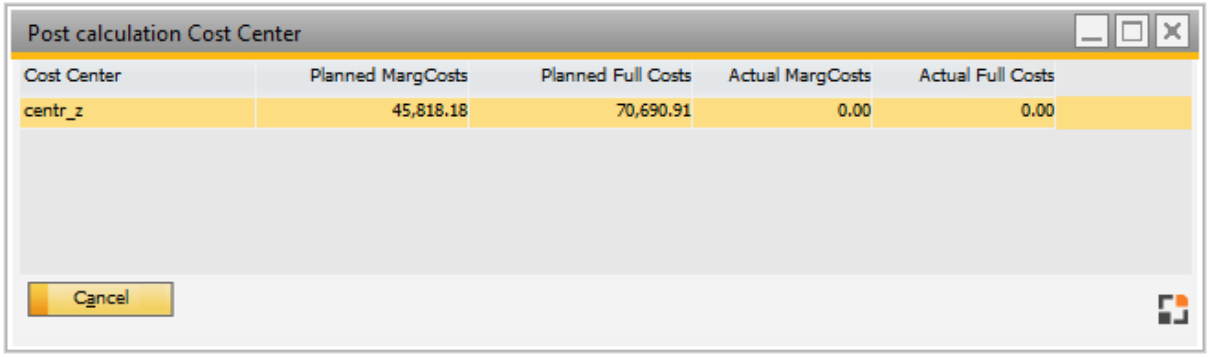
back to Post-calculation Master data

8.6.2.1 Post-calculation cost centers

Post-calculation creates an evaluation on cost centers at the same time. Accessible in post-calculation via "cost centers".

Post-calculation - List
Post-calculation - Master data
Post-calculation - Results
Post-calculation - Details on calculation
Results profit centers
Results detail

PATH: Post calculation > Results > **Cost center** button



Determination of cost centers by following rules:

Operation: planned cost center as per resource (Field cost center in resource master).
Material: cost center as per material master, field "Profit center".
Order time receipt: cost center as per time receipt.

Settings of cost center determination in Configuration wizard.

Production > FDC > Determination of profit centers "Resource" or "Assembly".

© 2026 Boyum IT Solutions A/S

Production > Material posting > Account settings > Determine profit center via "Material" or "Assembly" or "No" (= Standard, no determination)

See

Post-calculation results

Post-calculation

8.6.2.2 Results detail

View Post-calculation – Details

Post-calculation - List

Post-calculation - Master data

Post-calculation - Results

Post-calculation - Details on calculation

Results profit centers

Results detail

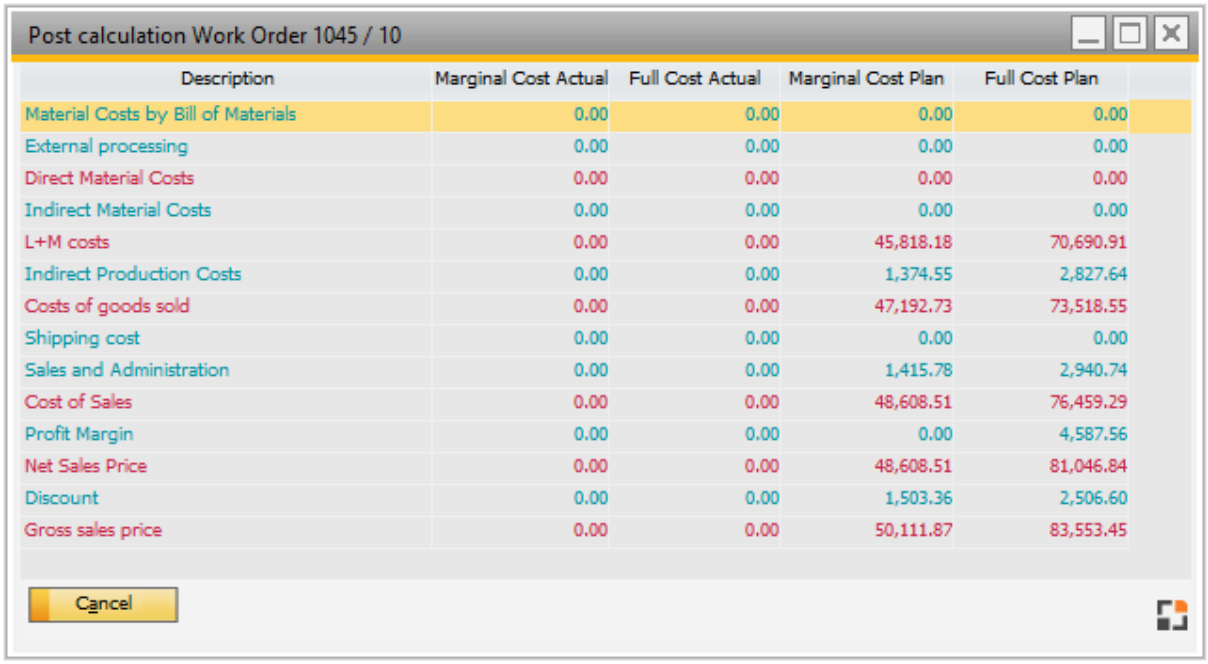
PATH: Post calculation > Results > **Detail** button

Click on **Detail** to view the result with the used calculation schema.

Display per calculation schema object at planned and actual marginal costs, planned and actual full costs

© 2026 Boyum IT Solutions A/S

- that means at planned and actually accrued costs.



postcalc_line_resultdetail.psr

See

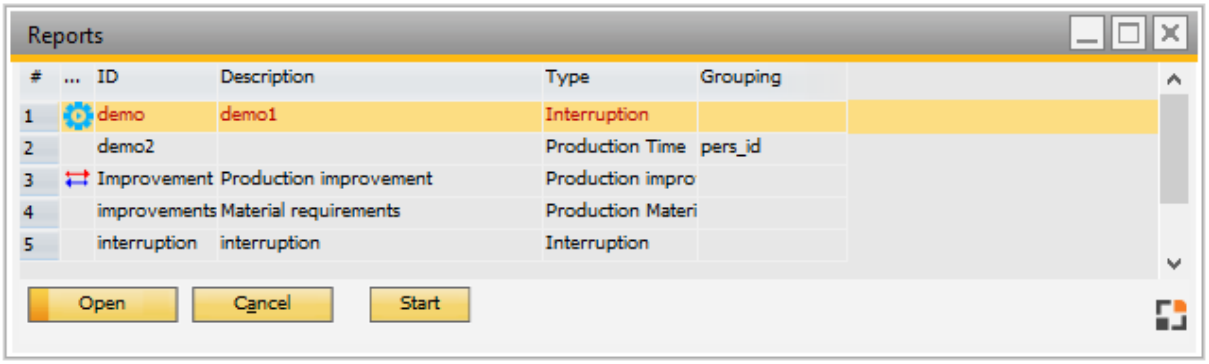
Post-calculation results

Post-calculation

8.7 Own Work Order reports

You can create your own reports from a selection of default reports .

PATH: Production > Own Reports Production



Window report_myreport_browse.psr

The following default reports are available in the "Production" area:

© 2026 Boyum IT Solutions A/S

Type	Function	Grouping	Graphic
Dispatches	Show all currently reserved time dispatches on a resource.		
Scrap	Show all scrap reports.	Item, Resource, Personnel, Project, Scrap.	
Production time	Show all order time receipts. Particularity: The effectiveness key data or productivity key data will be displayed for groups. Evaluations on personnel, resources, projects and items can be generated here.	Item, Resource, Personnel, Project.	Yield and Scrap quantity. Yield quantity per employee. Yield quantity per item. Yield quantity per resource.
Interruption	Show all interruptions.	Interruption, Resource.	
Production material Reservation	Open the Production – material reservation window.		
Production issue material	Open the Production – issue window.		
Production material allocation	Open the Production – allocation window.		
Production material requirement	Open the material requirement list	Item	
Production progress	Evaluation production progress.		
Milestones	Evaluation per milestones.		
Work List	Open Work list (Work order planing on routing level)		

Own Production Report

8.7.1 Concept of own reports

Beas provides multiple default reports from which you can generate your own personal reports using many settings.

© 2026 Boyum IT Solutions A/S

Use the setup window to define filters and groups. In some list you can set up diagrams, to be included in the window.
Templates and Window settings can be used in some lists. Also, the access rights to all reports can be set up.

You can define time ares as dates, months, year etc. then, a repeated input of the dates will not be required.

Example production times:

Production times: A list, which shows all reported order times
If the list is grouped by "Personnel", a productivity list is created. If the diagram is activated additionally, a performance curve showing effectiveness can be displayed.
If you group by resources, you can create a resources utilization evaluation. You can determine the production quality by item when grouping items and consider scrap reports.
You can create more useful lists with filters by location, production type (e.g. only repair orders), employee, item group etc.

Example production material reservation

You can even open the Production – Reservation window. In own lists you can set up, which work orders or assemblies are to be considered.

Difference between reports and "Lists" and "Own lists"

Lists

Macros can be stored. Default lists and Crystal reports are available for "Lists".
Parameters can be defined, but the values cannot be saved. Macros are very useful for storing crystal reports.

Own Lists

From a selection of default reports own lists can be created and parameter can be saved.

Field description

Field	Description
ID	Accurate ID per own report.
Description	The report can be described here. This text will be shown in the selection list.
Type	The report default can be selected here.

© 2026 Boyum IT Solutions A/S

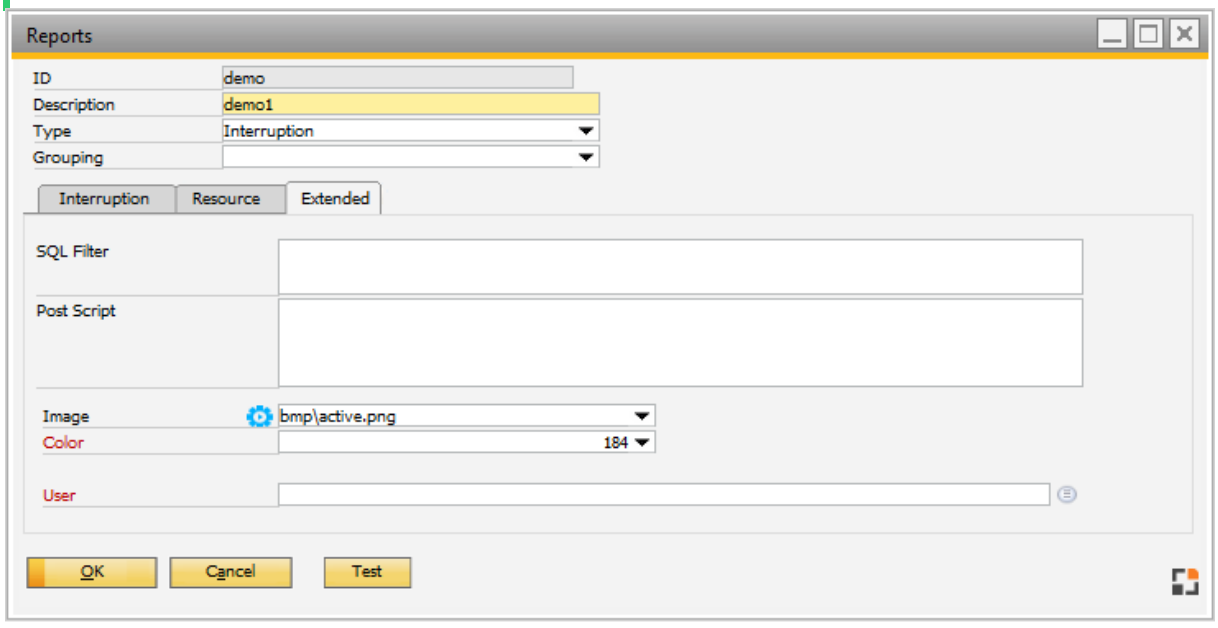
Grouping	According to the selected report the groupings are available here.
Diagram	Only visible if the selected report default supports a diagram. Define which reference date has to be used for the diagram.
Unit	At diagrams which shows the time line, a grouping unit can be set up: day, month, year.
Position	Defines where the diagram will be displayed e.g. left or right above the list. With "overlapping" the diagram will be shown before the list and its position can be moved and the size can be changed freely.
Size %	Define the relative size of the diagram. Default = 50% At 100% you can only see the diagram.

Tab time receipt, production order, assembly, resources etc.

Define which values are to be displayed. These tabs will be hidden or displayed according to the selected report.

Tab extended

PATH: Production > Own Reports Production > Open a report > "Extended" tab.



Window fert_report_parameter.psr

Field	Description
SQL Filter	An own SQL filter can be defined here, which is considered in this report.

© 2026 Boyum IT Solutions A/S

	Note: The SQL-filter is not considered for all report types. At the input there is still no error checking. Check the SQL statement which is executed in the selected report.
Post Script	This script is executed in the report after setup. Note: This is not considered at all report all report types.
Image	Icon in the own reports – selection list.
Color	Color of the entry in the own reports – selection list.
User	Defines which user is allowed to use this list.

beas 9.2

8.7.2 WO Reports

Manufacturing progress: In a horizontal line, operations are to be processed and finished ones are displayed.

Milestones: Status of milestones stored in work order item.

Via window settings up to 30 additional columns can be displayed, unnecessary columns are hidden.

Templates are supported.

The milestone progress list shows the name of the milestone and its current status (e.g.: assembly, QC). Only work order positions with deposited milestones are displayed.

Upper selection fields

Field	Meaning
Date	Select from calendar from – to.
Customer from - to	Selection from drop down.
Project from - to	Selection from drop down.
Document	Enter document number from / to.
Item from - to	Selection from drop down.
Status	Select from **All / Active / Only closed** work order are displayed.
Reports **Manufacturing progress** **Milestones**	Select, then press button "Display": the display below is defined: **Manufacturing progress** shows current status of all work orders. In each operation-field the required resource is displayed. Status is displayed by colors:

© 2026 Boyum IT Solutions A/S

	Green Operation closed Blue Time receipt exists (operation not closed) Red: Active login Grey Not yet started Note: Active login has higher priority. Milestones: displays current status of Milestones (example: assembling, QC). Only work order positions with stored milestones are displayed. **Colors in milestone progress list:** Green Completed Blue Open Violet Open, due today Red Open, due date in the past
Item group from - to	Only work orders with assemblies belonging to this group.
Material group	Only items of this material group.
Resource type	Only work orders with at least one resource of this type. Parallel resources are not taken into account. The resource type is defined in Resource – "General" tab.

Note: using filters, overhead orders are not considered!

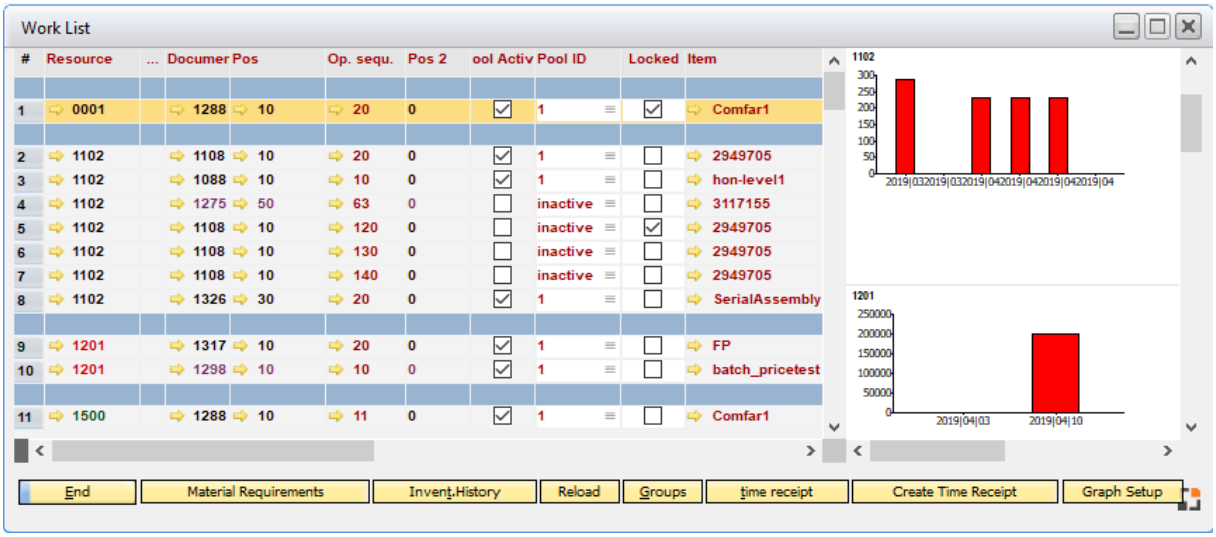
The evaluation requires intensive computation with several accesses on SQL server, because a separate calculation is started for each line.

back to work order general

© 2026 Boyum IT Solutions A/S

8.7.3 Work list

The work list displays all open Routing positions.



bde_worklist.psr, basic license,

This list can be used for:

Administration of open work order positions

- Check situation
- Define Pool
- Lock/Unlock Routing position for Time receipt
- View existing Time receipt
- Create different statistics
- Define the operator employee
- Check material situation

Use as Work list for Employees with Beas basic license

for employees owning a Beas basic license

- access to work order, stock and item information
- create time receipts

It is possible to define the list in several ways:

- Own report settings with grouping and graphs
- Template and Window settings

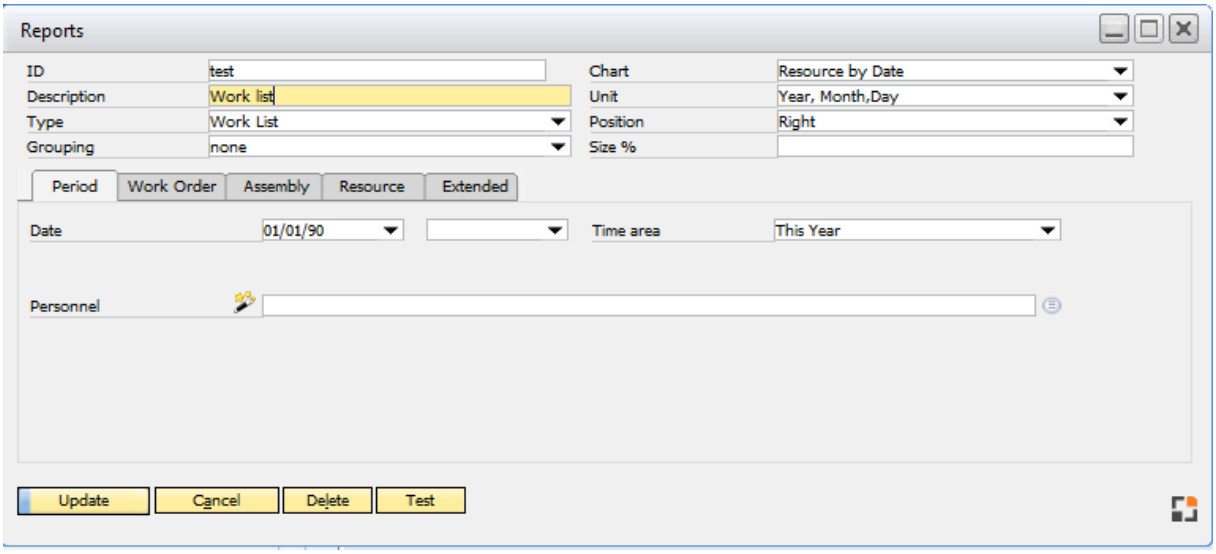
Pool result

© 2026 Boyum IT Solutions A/S

In the list you can only see entries which are defined inside the pool. This is an entirely automatic process.
Recalculation is also possible via **right-mouse click > Pooling, Scheduling.**

Definition in own report

in "Own reports" it is possible to define a number of properties for this report.
After the definition you can execute this directly from Own report or you can insert this with B1UP as separate Menu point in SAP.



Settings

Setting	Description
ID	Unique ID for the report.
Description	Description of this report.
Type	Work List.
Grouping	Create grouping. If defined, only the result is visible with fewer fields. **Resource:** Group by Resource Display resource ID, total duration by resource and all visible resource fields. **Personnel:** Group by Personnel (must be defined in the routing position). Display Personnel ID and Duration.
Chart	Define a chart. **The following charts are available:**

© 2026 Boyum IT Solutions A/S

Setting	Description
	Resource by Date: Display the Date line for every resource. Resource: Display all Resource and Duration in one graph. Item by Date: Display the Date line for every Item. Item: Display all Items and Duration in one graph. Personnel by Date: Display a graph by date for every Personnel ID. Personnel: Display one graph for all personnel ID's.
Period - Date	Define the filter for Date area for Routing start. This is related to field Processing Start. You can define this manually or for a time area.
Personnel	Define, for which personnel entries you want to see open routing positions. This checks the resources defined in personnel entries or in the personnel entry saved in the routing position. For employee: Click on left icon to choose "CurrentEmployee". In this case you can always see your own routing positions. Note: This is only working if you defined the SAP User ID in the Beas personnel entry .
Work order	Define all filters related to work order.
Assembly	Define all filters related to the assembly.
Resource	Define all filters related to the resource.
Extented – SQL Filter	Define extended SQL Filter. With the left icon it is possible to choose templates. - Only current pool: Insert SQL fragment for filter "Only current pool". - Only not blocked: Insert SQL fragment for "Only not blocked routing positions".
Post script	Here you can insert a BeasScript, which is executed after opening the window.

Field descriptions

A large number of fields are available which you can activate or disable in window settings.

The settings are saved in the own report.

One template is available. It is not possible to create additional templates, because the template definition is part of the own report.

Overview on all special fields:

© 2026 Boyum IT Solutions A/S

Setting	Description
Document / Pos / Op.seq	The Work order, Position and Routing Position. With the yellow row you can open the related window.
Pool active	Check box is active if the Routing position is inside the current pool.
Pool ID	Define the number of the Pool In Pool report the employee can only see the entries that are inside the current pool. The next pool is visible only if the employee is ready with the preview pool. In this way it is possible to define which group of entries the employee must work on before starting with the next group. "Inactive": no time receipts in preview routing position. In Standard this field is not editable. Activate this in Window settings.
Locked	If this field is active, the time receipt function for this field is locked. This is related to **routing position > extended > Block login**. With this field you can define whether the employee is allowed to work on this routing position. In Standard this field is not editable. Activate this in window settings. If you change this field, Beas saves it in the change log of the work order: "routing pos lock flag changed in work list to "1"/"0"
Personnel number	Define the personnel ID of the employee working on this routing position. In Standard this field is not visible. Activate this in window settings. If you change this field, Beas saves it in the change log of the work order: "routing pos personnel ID changed in work list to "..." Note: Only the "Work list" can check this field. The Pool report in terminal window and WEB APP's do not check this Personnel field.

Functions

© 2026 Boyum IT Solutions A/S

Setting	Description
Material requirements	Open window "Material requirements" for this routing position.
Invent.History	Open Invent. History window for the current assembly.
Reload	Reload current window.
Time receipt	Display all time receipts for the current entry. Note: This function displays all time receipts for the routing positions and parallel resources of this position.
Create time receipt	Open window for creating a time receipt
Graph setup	Open the Graph definition window. Only visible if the graph function is activated.
Pooling. Scheduling	Open the "Pooling, Scheduling" window. Here you can recalculate the pool.

8.8 Report work order

Default reports and own crystal evaluations can be issued from this window. More reports can be stored via **right-click > window settings**. ***See*** Macro settings.

Only the user with the required authorization can see the lists or report entries.

Report	Description
Evaluation: Resource interruption	Evaluation of the reported interruptions.
Evaluation: Dispatches	Evaluation of the dispatched operation sequences (reserved times).
Evaluation: Production times	Evaluation of the reported order times. Can be used to create effectiveness statistics for resources and personnel .
Evaluation: Scrap	Evaluation of the scrap reports, per resource, item or employee.
Evaluation: Production improvement	View of the progress per work order position and operation sequence.

© 2026 Boyum IT Solutions A/S

Evaluation: Material requirements	Material requirement for active work orders opens the material requirement list, and also allows a cumulation per item.

Note:

Existing lists were replaced and functions were reworked in *beas 9.2.*

The "old" allocation function is now deleted. If you still want to use this function, add it manually.

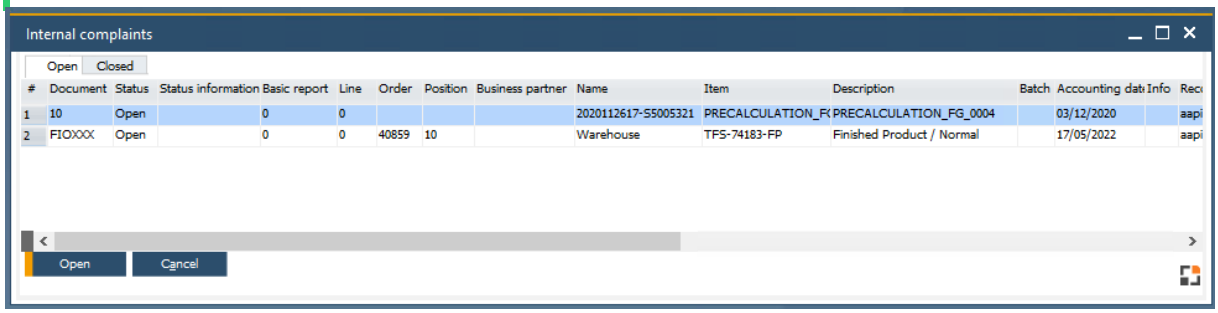
- Instruction: Add the old allocation function.

> Note:
> Only use the "old" allocation function if necessary. Please inform us if you miss some functions in the new allocation function or in the material requirement list.
>
> 1. Create new macro, store name.
> 2. Choose Api "ProdReservationList".
> 3. Deactivate check box "Simple input" and update entry.
> 4. Insert new macro tab "Macro step".
> 5. Create with "BEAS-Formt".
> 6. Insert report-Name: fert_report_materialverfuegbarkeit.psr.

8.9 Internal complaint

In this window you can add/open internal complaints.

PATH: Production > Internal complaints.



Window reclamation_browse.psr

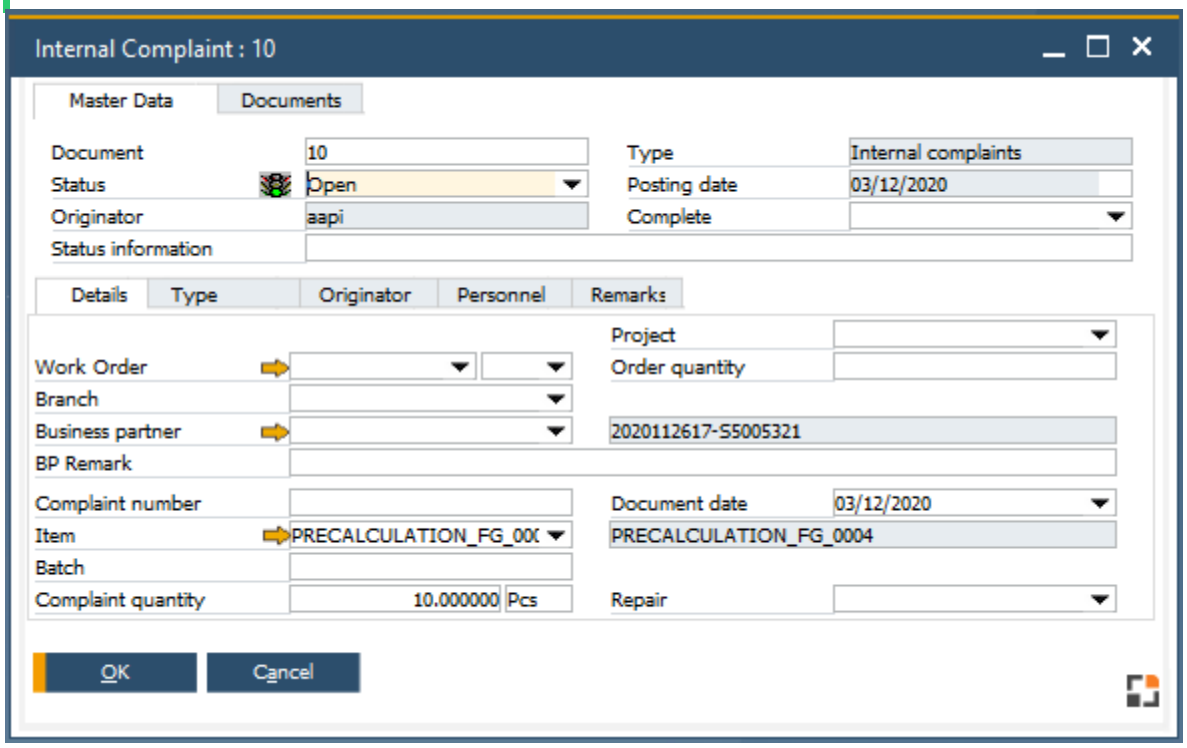
See field descriptions and editing window description.

© 2026 Boyum IT Solutions A/S

8.9.1 Internal Complaint - Edit

In this window you can add new / edit existing internal complaint.

PATH: Production > Internal complaints > **Open** a complaint entry.



Window reclamation_edit.psr

Upper tabs

Master data tab

Field	Description
Document	Document number.
Type	Type of complaint : internal / customer / supplier complaint.
Status	Choose current status: - Open: When set, the icon left of the field turns green: / - In work: When set, the icon left of the field turns yellow: / - Closed: When set, the icon left of the field turns red: /

© 2026 Boyum IT Solutions A/S

	It is possible to click the actual icon and it alternates between the 3 selections (also changing the drop-down value) Open / in work / closed.
Posting date	Date of entry.
Originator	The creator of the complaint.
Complete	Enter the target date when it is expected to be finished.
Status information	Enter The current status.

Documents tab

You may enter any document related to the complaint. Click **Add** specify the path with the **Choose file** button, and save by clicking **Update**.

Lower tabs

Details tab

Field	Description
Project	Select Project (if applicable).
Work order	Work order number. Right of the field you can select the WO position in a drop-down field.
Order quantity	Quantity of the WO.
Branch	Select branch from the drop-down.
Business Partners	Select Customer / Supplier from the drop-down.
BP remark	Additional remarks to business partner.
Complaint number	Enter a complaint number.
Reference date	Enter a reference date.
Item	Item number.
Batch	Batch number (if applicable).
Complaint quantity	Number of items subject to complaint.
Total Costs	Enter the costs.
Repair	Select a repair type from the drop-down.

Type tab

Enter the type of the complaint, description and notes ("Information").

© 2026 Boyum IT Solutions A/S

Originator tab

The Originator is the person who caused the error. There may be multiple originators. Where this is the case, a percentage (%) can be used to assign the proportion of responsibility of the originator.

Choose one of the already created originators. The description is linked, and you can provide further information in the "Info" field.

Personnel tab

Which employee has caused the issue? Multiple employees can be entered. In this case there is a percentage specification.

The complaint is divided into four areas:

Field	Description
Complaint description	General data for the complaint is lodged in this section of the template. It is possible to feed in more data (type, originator, employee) only once this section is filled and saved.
Types (Area A)	Type of defect, e.g. defective paint, deviations from dimensions, etc. Any number of types can be stored simultaneously. Select one of the already created complaint types.
Originator (Area B)	The person who caused the error. There may be multiple originators. Where this is the case, a percentage can be used to assign the proportion of responsibility of the originator. Choose one of the already created originators.
Employee (Area C)	The employee/s who caused the problem. Multiple employees can be specified. In this case, a percentage responsibility is assigned.

Remarks Tab

Remarks can be stored in this tab. An editor window for formatted texts is available if it is enabled in the Configuration wizard.

- UDF

  In these tabs 4 UDF can be set up:

  To make them visible, use script.

  Example:

```
windowevent postopen
dw_4.item.beas_reclamation_causeruser_udf1.visible=1
dw_4.item.beas_reclamation_causeruser_udf1_t.text=hello world
end event
```

© 2026 Boyum IT Solutions A/S

8.10 Capacity Planning, APS

An Advanced Planning System is a software system for the configuration, planning and control of supply chains. They should enable a realistic representation of the entire supply chain from the raw material supplier to the end consumer. APS have a modular structure and are divided into three application levels which are based on each other in terms of time and logic and which differ from each other in terms of the planning horizon and the planning objects considered.

Work with APS
APS Scheduling
Graphic View
Pooling, Scheduling
Pool Structure Report
Graphic Utilization Display
APS Calculation Types

APS flow demo - English
APS flow demo - in German language
The Power of APS with Beas Manufacturing - Webinar

- On strategic level (configuration level, supply chain configuration), various design options in the supply chain – alternative production and warehouse locations, their capacities and the associated internal and external processes – are modeled and evaluated with regard to the associated costs and the achievable performance level.

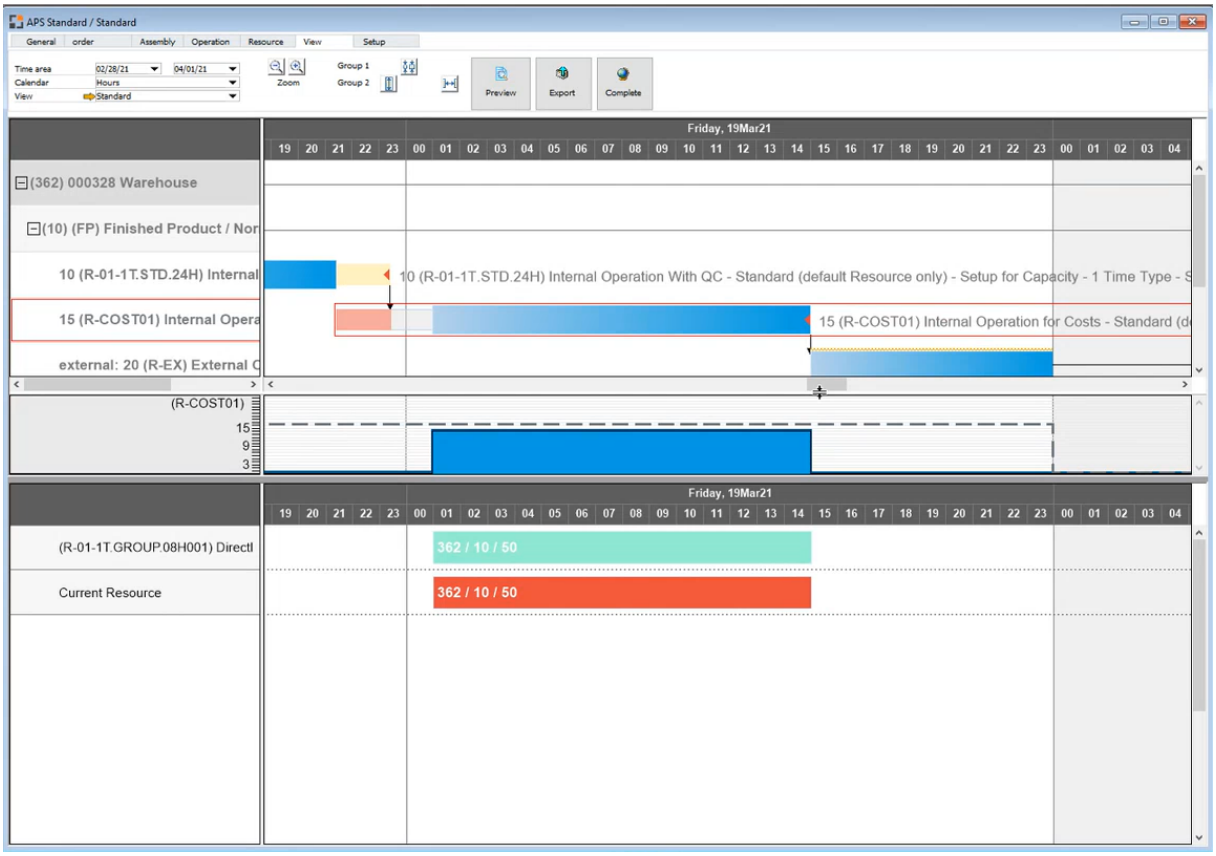
- On tactical level (planning level, supply chain planning), rough planning for procurement, production and distribution is carried out on the basis of medium-term demand planning and sales forecasts. The aim of the planning activities is to synchronize the production and transport plans across the entire supply chain, taking into account all capacity and scheduling dependencies.

- On operational level (execution level, supply chain execution), the necessary detailed planning for the short-term coordination of quantities and capacities takes place. The functions range from sales planning to quantity, schedule and capacity planning and the resulting procurement planning to distribution and transport planning throughout the entire supply chain. Planning and optimization are based on simulations of various alternatives with regard to feasibility, costs and delivery times.

© 2026 Boyum IT Solutions A/S

Software systems with planning functionality for supply chain management in production and logistics systems. Advanced Planning Systems complement traditional PPS systems. In addition to the usual data management, they contain modules with which truly integrated planning is possible. All available information is included in the planning. The best known representative of these software solutions is SAP's Advanced Planner and Optimizer (APO).

Core functions for operational planning is Production Planning / Detailed Scheduling (resource planning).
In Beas the APS module is available with wide functionality, and is fully integrated in every process.



Based on the priorities, machine capacities, factory calendars and many other factors, the latest possible start date for a work order is calculated. The calculation is performed automatically. The start of the complete work order for each production item and also for each individual operation is determined. All types of resources can be reserved and the utilization can be represented graphically.

LIMITATION ON TOOLS:

Important: In APS, the system calculates interruption time ONLY for resources. Tools do not have a precalculated calendar, and Beas does not check interruption on Tool level.

© 2026 Boyum IT Solutions A/S

APS functions are not bound to strict mathematical rules like traditional planning and scheduling methods. Therefore, APS is rather a tradeoff between many factors to find the best solution.
In this sense, the APS system enables planners to automate, optimize, and compare production plans and schedules that reflect actual resource capacity and material availability. It synchronizes processes across plants and work centers to accurately manage labor and inventory, and meet delivery dates and increase profitability.

The simple backward scheduling method dispatches work orders only on the basis of the factory calendar and does not check the resource limits, and whether another work order has been dispatched for the same day. Therefore, without an automatic consideration of these factors, overloads can occur. To avoid this, the APS must be used, which can take into account existing time reservations, as well. The material availability can provide additional checks, so that the associated operation is started first when material is available.

The capacity calculation is a core function that is used to the same extent for rough planning, MRP run, schedule specification and APS. Any methods can be set for APS in Calculation Methods . The standard package includes Default Calculation Methods which can then be used in APS planning

Pool control uses the result of capacity planning and informs the employee in the shop about the operations that must be completed. For more general information, ***see*** Pool Control. Pool control is automatically updated and can be recalculated using Pooling/Scheduling.

Overview of functions

- Order-oriented view
- Resource or operation oriented view
- Planning at production order level or operation level
- Consideration of data from Beas work orders
- Scheduling and optimization of manufacturing processes
- Flexible calculation methods
- Flexible views and groupings

The heart of APS – capacity planning – is used by the standard program (backward scheduling) as well as by MRP, Pool Administration and all other relevant program components equally.
A change in the APS has a direct effect on production order management and pool management and also directly on MRP. All information is always available online. The information from FDC and MDE is available directly in the APS. Both rough and detailed planning is possible. Once a work order is roughly scheduled by Beas, that means if a work order BoM and routings are available, the

© 2026 Boyum IT Solutions A/S

processing can be done with APS.

The orientation is user-definable; it can be resource-oriented, order-oriented, project-oriented or by employee, material, production line, location-specifically or separately for detailed machine planning or the management of laborers. There is choice for rough planning on production order level or detailed planning as far as individual machine planning is accurate to the minute. The APS supports any priority control including user-definable nesting, tool management, user-definable multi-machine and multi-order operation, parallel processing and overlaps. Material requirements planning works directly with APS. APS is preconfigured for rapid familiarization.

Further videos:

How we create APS Concepts. Webinar from 10/2017

Tips and tricks (sorting, filter, task descriptions) 10/2017

Pool control

Pooling, Scheduling

Pool Structure Report

8.10.1 Work with APS

The APS is located in **Production > Capacity planning > APS.**

The typical sequence of operations is as follows:

1. Select the type of planning: Planning types

2. In the Planning view, work orders are sorted by resource use and other criteria, and dispatched. For this purpose, you may set different flags. Following this, the work orders are scheduled and calculated.

3. In the Graphical view, all currently planned production orders can be tracked.
If necessary, operations can be moved and will be recalculated.

Training unit 13 APS

Topics:

- Generate and edit calculation types

© 2026 Boyum IT Solutions A/S

- Generate and edit calculation scenarios
- Carry out planning in the graphical / detailed view

8.10.1.1 Scheduling

This chapter describes how the lead time is calculated:

Delivery Date

If a production order is created from a customer order, the delivery time is considered first. The delivery time is the time between production order delivery date and customer order delivery date and is defined in the settings.

Customer order delivery date	Scheduled in the customer order.
Work order delivery date	Defined in the production position, generally delivery date of customer order minus x workdays at time y. Both can be configured.
End time	Calculated completion date.
Start Time	Calculated start date.
Start date	Calculated or manually specified start date.

- Forward Scheduling

Use forward Scheduling for

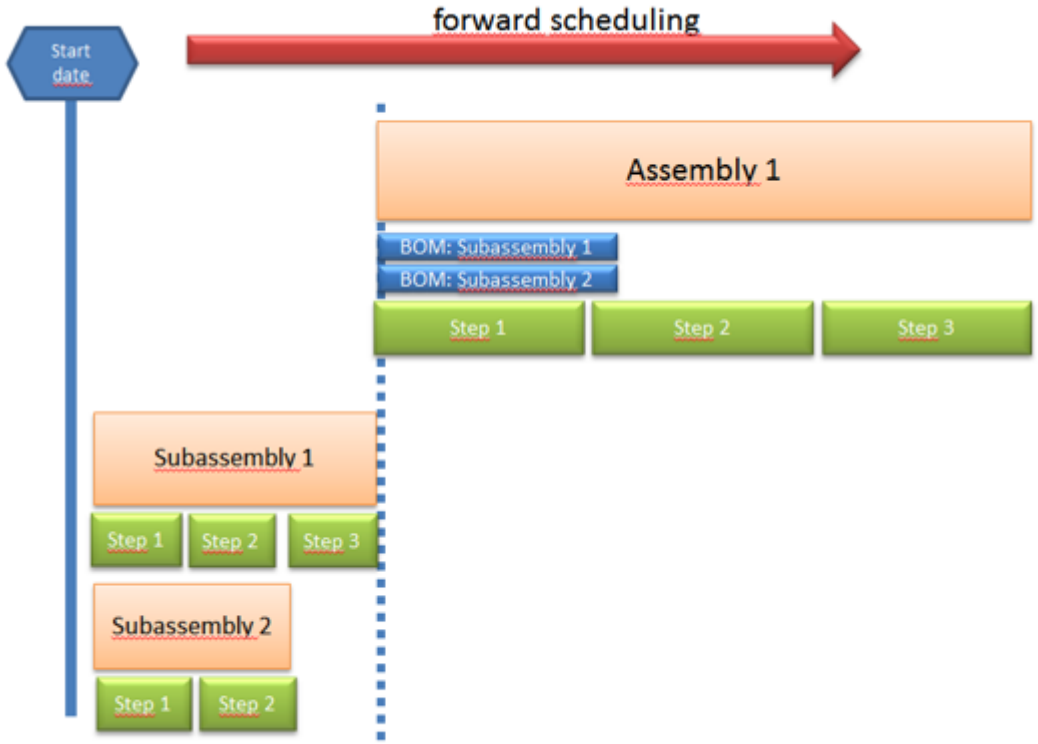
- planning exact start date for every routing step
- if you need resource resource-optimized planning

The forward scheduling starts with defined Start date and calculates the complete structure. The system starts with the sub level and then continues with the main level.

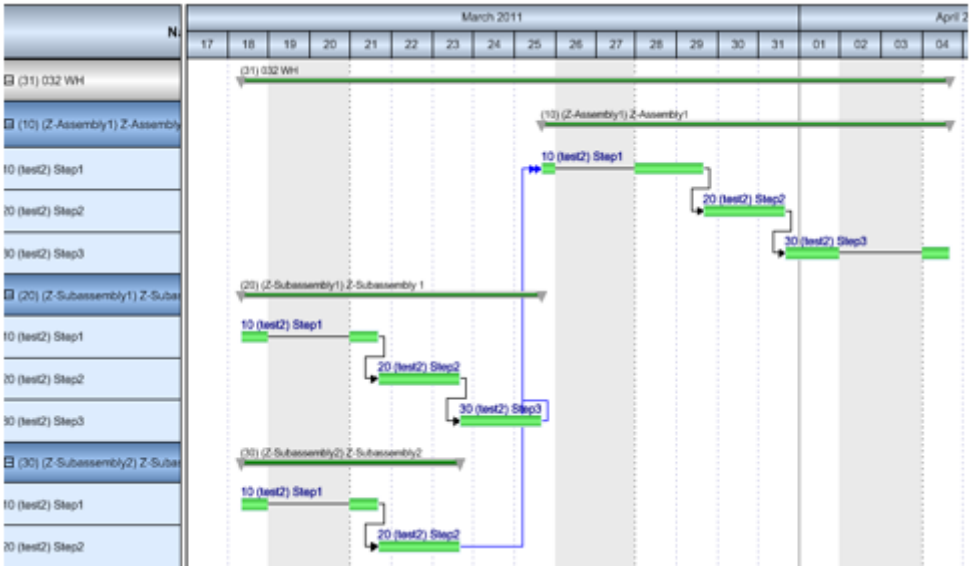
In this example

- "Assembly 1" can be produced only after all sub-assemblies have been finished.
- last operations of the sub-assemblies are linked to the first operation of "Assembly 1".

© 2026 Boyum IT Solutions A/S



In APS Gantt view:



Note:

For forward scheduling the APS License is mandatory.

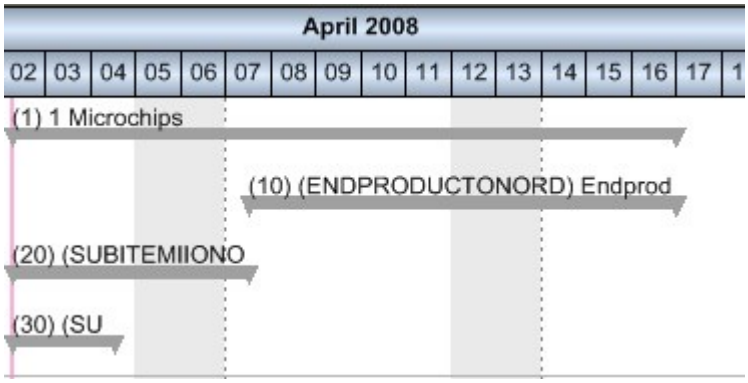
© 2026 Boyum IT Solutions A/S

Structural processing

The structural calculation is shown in this example:
The "Endproductonord" assembly consists of "subitemiionorder" and "subitemionorder"

Production structure view

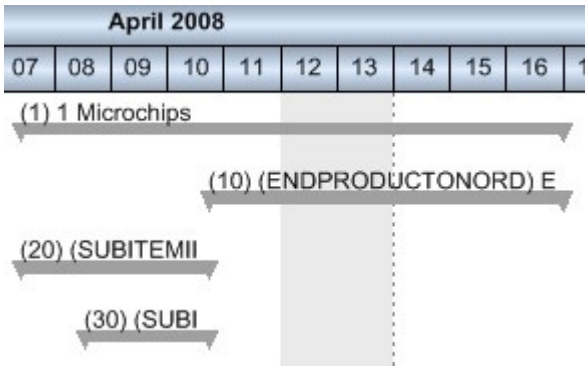
Before "Endproduct" can be started, the two subcomponents must be processed.



APS view, lines minimized – forward-scheduled

The image clearly demonstrates that in the time line work sequences 20 and 30 are started first and the upper assembly "Endproductonord" is only started when the assembly with the longer throughput time is ready.
Forward scheduling always works in a resource-oriented way here, i.e. earliest possible start.

Conversely, backward scheduling



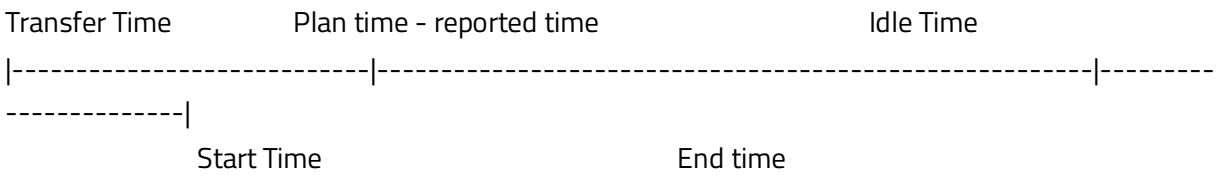
APS view, lines minimized – backward scheduling.

© 2026 Boyum IT Solutions A/S

In backward scheduling you start as late as possible (start 7 April). It can clearly be seen that assembly 30 starts later than assembly 20.

Routing Position

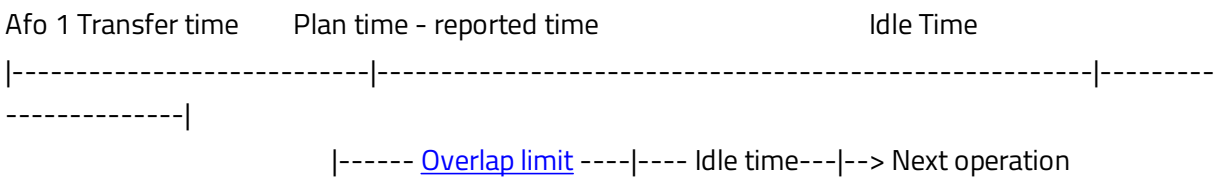
The time line of a work sequence consists of multiple parts.



Times for the resource are only reserved in the time between the start and end times. Closed work sequences are not calculated. Active logins are not considered.

For information on Calculation of target time ***see*** Calculation of target time

The next operation is dependent on the overlap time, i.e. the next operation starts on transfer time + overlap time + idle time excluding plan time (graphical view for forward scheduling only):



Transferred times are specified in Resource under *Resource -> Planning -> Transfer Time in Days* or *Resources -> Planning -> Transfer Times* . Using the priorities, the idle time and the transfer time can be influenced.

Special feature: overlap and transfer time

© 2026 Boyum IT Solutions A/S

If the following routing position is overlapping or parallel, the transit time does not apply to the following routing position, but rather to the routing position that is no longer defined as overlapping or parallel to this routing position.

Special feature: backward scheduling

Certain functions such as firming and material requirements inspection are not available and do not work in a resource-optimized way. Overlaps are supported but are not displayed correctly graphically.

Backward scheduling supports no detailed planning. Instead, it uses a "daily pot for a resource". This means that upon check of existing dispatches from other work orders only the time, but not the point in time (start) is checked.

8.10.1.2 Scheduling: Forward

Use forward Scheduling for

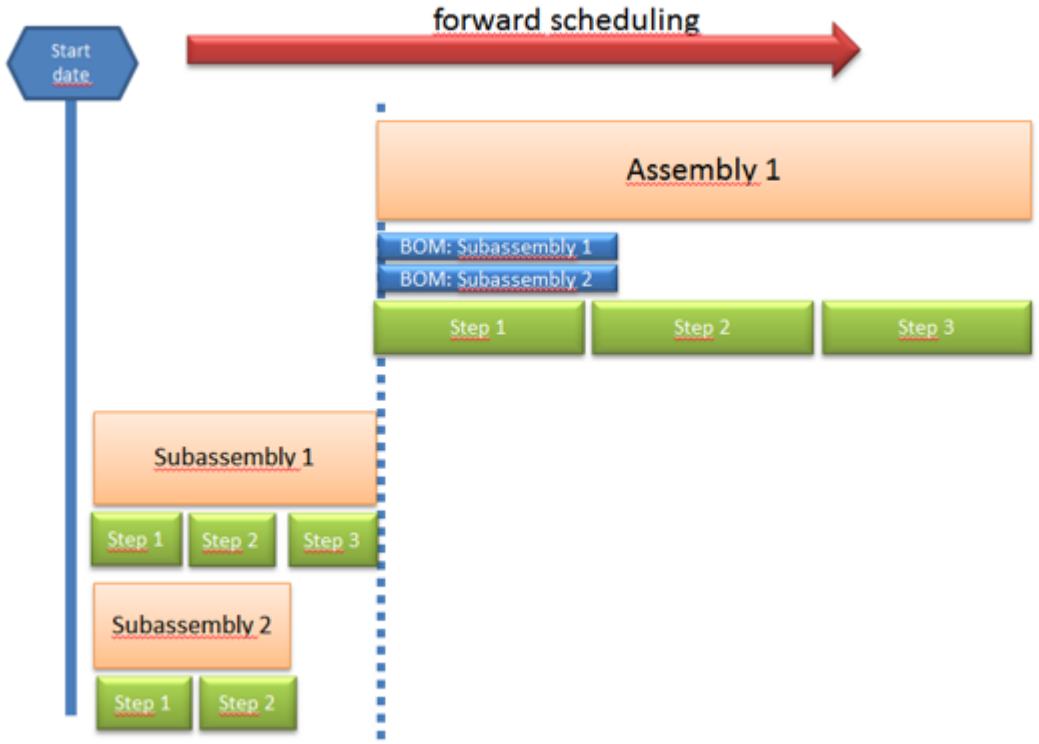
- planning exact start date for every routing step
- if you need resource resource-optimized planning

The forward scheduling starts with defined Start date and calculates the complete structure.
The system starts with the sub level and then continues with the main level.

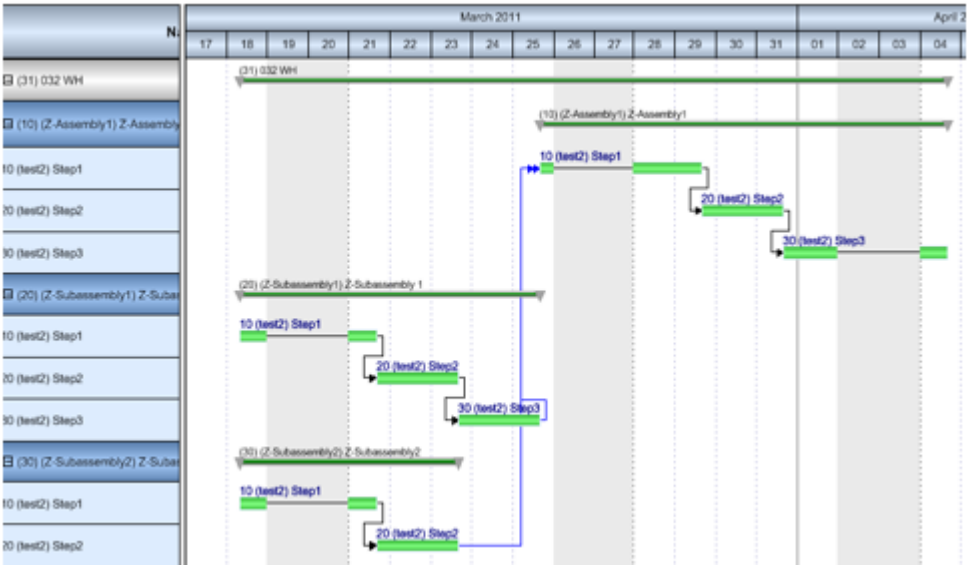
In this example

- "Assembly 1" can be produced only after all sub-assemblies have been finished.
- last operations of the sub-assemblies are linked to the first operation of "Assembly 1".

© 2026 Boyum IT Solutions A/S



In APS Gantt view:



Note:

For forward scheduling the APS License is mandatory.

© 2026 Boyum IT Solutions A/S

8.10.1.3 Expansion and Compression (APS)

There are many ways to expand and compress a work order along the timeline.

Priority

Priority can influence transit time and utilization.

Transit Time

```
|--- Transfer time --| |-- Plan time --| |--- Idle time ---|
```

You can specify the % of transit time to be considered.
For ***example***, if you input 50%, the transit time is compressed to 50% and the lead time reduced accordingly.

Utilization

You can use the utilization to specify the % to which an order can be dispatched to a resource.

- ***Examples:***

Example 1.

Resource has 8 hours / day and consists of one machine. No other time reservations.
10 hours are to be dispatched, utilization is set to 100% (default).

```
Day 1         Day 2
|--------|    |--------|

Order
|********|    |**------|
```

The order is dispatched for 2 days here.

At 150% utilization this would look as follows:

```
Day 1         Day 2
|--------|    |--------|

Order
|**********| |--------|
```

In this case, simply more is dispatched on day 1 than is available. An overload up to 150% would occur here.
The shift definition for the resource is adapted here order-specifically: Instead of 8 hours, the program then assumes 8 * 150% = 12 hours, i.e. from 6am to 6pm instead of 8am to 4pm.

© 2026 Boyum IT Solutions A/S

Example 2: Expansion

Utilization at 50%

```
Day 1         Day 2
|--------|    |--------|

Order
|--****--|    |--****--|
```

For the calculation of this order, the shift definition is changed here to 12 - (8 : 2) = 8am to 12 + (8 : 2) = 4pm
Therefore, only 4 hours are available per day and the throughput is expanded accordingly.

Expansion / compression by resource allocation

The priority always refers to the overall production order. If only one operation should be expanded, the "Resource Allocation" option is available. This value can be specified in % or number of machines/persons per resource.

- ***Examples:***

Example 1:

1 machine on the resource, 8 hrs/day, work sequence with 10 hours, default resource allocation

```
Day 1         Day 2
|--------|    |--------|

Order
|********|    |**------|
```

Changing the resource allocation to 200%

```
Day 1         Day 2
|--------|    |--------|

Order
|xxxxx---|    |--------|
```

The shift definition is not changed here; each x corresponds to 200% utilization

© 2026 Boyum IT Solutions A/S

This results in an overall utilization of 200% in the first 5 hours. The throughput time is reduced accordingly.

It is reduced to 50% for expansion

```
Day 1         Day 2         Day 3
|--------|    |--------|    |--------|

Order
|oooooooo|    |oooooooo|    |oooo----|
```

The shift definition is not changed here; each o corresponds to just 50%.
Another position can thereby be dispatched in parallel to this position.

Example 2:

2 positions with 10 hours each, 1x with 50% resource allocation and 1x 100%

```
Day 1         Day 2         Day 3
|--------|    |--------|    |--------|

Order1
|oooooooo|    |oooooooo|    |oooo----|

Order2
|******--|    |****----|
```

Order 2 is dispatched to 75% in the first day, but to 100% at 6 hours.
Reason: Beas always calculates: daily capacity minus allocated time (8*25% = 2 hrs, 6 free hours remain)
On the second day the remaining 4 hours are scheduled to 100%.

> Note:
>
> Expansion and compression is **not possible** in Detailed planning.
>
> The program switches automatically to calculation method Exploit full capacity.

See

Resource - Planning - Planned capacity
Shift schedule for resources
Resource - Transit time
Priorities

© 2026 Boyum IT Solutions A/S

APS Calculation Method

8.10.1.4 Time Reservation (APS)

If a production order is dispatched, times are reserved for it.

Note:
in this case:
- The throughput time is calculated to the minute.
- The reserved times are saved to the minute but are only considered to the day.

You can perform planning to the minute by using the graphical view.

However, APS also offers user-friendly calculation formats such as resources, which consist of multiple persons/machines and can be planned in any way without time-consuming, detailed planning.
Note particularly: Resource allocation and the function Expansion and Compression.
A plan accurate to the minute would have a very negative effect in many application cases.

Examples:

Example 1 (Planning to the day):

Two orders with the same start date and same resource are dispatched in parallel.

```
Day 1
Order 1
|---x----|

Order 2
|---x----|
```

If sufficient resources are available, both orders have exactly the same throughput.
If a plan accurate to the minute is required, Beas offers the necessary tools
See Resource-optimized Detailed Planning).

Example 2:

For day 1 + 2, multiple time reservations already exist through other orders

An order with 6 hours should now be dispatched (o). The (x) represents time reservations of other orders.

© 2026 Boyum IT Solutions A/S

The dispatch is performed as follows – based on the throughput time. The "Bind operation" option is deactivated in the calculation settings. Planning to the day:

```
Day 1         Day 2         Day 3
|xxx-xxxx|    |xx-xxxxx|    |xxx-----|
|o-------|    |o-------|    |oooo----|
```

Same ***example***, but "Bind operation" is activated

```
Day 1         Day 2         Day 3         Day 4
|xxx-xxxx|    |xx-xxxxx|    |xxx-----|    |--------|
|--------|    |--------|    |ooooo---|     |o-------|
```

Same ***example***, but as detailed planning

```
Day 1         Day 2         Day 3         Day 4
|xxx-xxxx|    |xx-xxxxx|    |xxx-----|    |--------|
|--------|    |--------|    |---ooooo|     |o-------|
```

Example 3 (Planning to the day):

1. Order resource allocation set to 200%, only 1 machine, work sequence with 8 hours. No other time reservations.
2. Order normally 8 hours

```
Day 1         Day 2
Order 1
|xxxx----|    |--------|

Order 2
|--------|    |xxxxxxxx|
```

The second order is only dispatched on the second day, as on the first day the first order consumes the full resource (4 hours * 200% = 8 hours).
This example illustrates the problem with planning to the minute. For this reason, planning to the minute is only possible in the graphical display.

Example 4 (Detailed planning):

3 identical orders with the same start date

```
Day 1         Day 2
|aaaa----|    |--------|
|----bbbb|    |--------|
```

© 2026 Boyum IT Solutions A/S

```
|--------|    |cccc----|
```

Not only are the resource limits and the times of the dispatched orders considered here, but the start and end dates of the dispatched times also.

8.10.1.5 Transit time (APS)

Transit time can be

- Transportation time from one to another place

- Drying time

- Expand lead times. In this way, urgent work orders can be squeezed in by reducing transit times in APS-calculation types or Priorities.

Example:

Step 1 is machine a, Step 2 is machine B

When the employee is finished with Step 1, he returns the goods to a collection point.

Later, the next employee collects the goods from the collection point and starts with step 2.

This time in between is an average transit time.

The transit time is always the time from the preview operation to the next operation and is defined in the resource from preview operation.

Transit time is entered in days.

Resource calendar is not taken into account. The factory calendar is considered only if this was enabled in the Configuration wizard.

Minimum transit time is entered: Configuration wizard – Master data – Resources.

Configuration of operation sequence:

```
|--- Transit time --| |-- Planned time --| |--- Idle time--|
```

First operation has no transit time.

Example with 2 operations:

```
Plan time operation 1
Idle time operation 1
Transit time of resource of operation 1
Plan time operation 2
Idle time operation 2
```

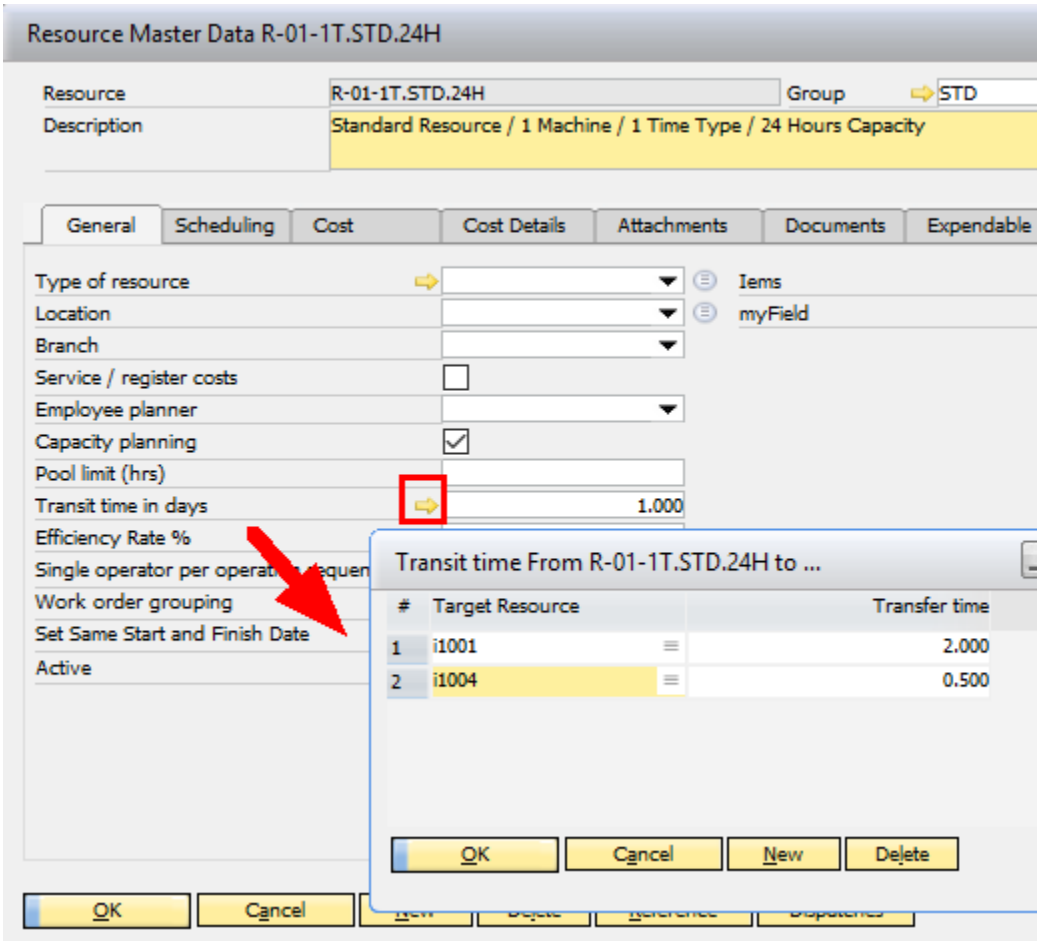
Resource-related transit time

It is possible to define different transit times to the next resource.

Example : 1 day to Resource A and 2 days to Resource B.

© 2026 Boyum IT Solutions A/S

Click on the yellow arrow left of the entry field "Transit time". In this window it is possible to insert the target resources with the resource related transfer time.



stamm_arbplatz_uebgzeit.psr

Transit time can be used to expand lead times. In this way, urgent work orders can be squeezed in by reducing transit times in APS-calculation types or Priorities

Example

You have transit time 0.5 days

With forward calculation you see: It is not possible to deliver it to the planned delivery date

Now it's possible to decrease the Transit time in APS-calculation types or Priorities

© 2026 Boyum IT Solutions A/S

Overlapping

In case of overlapping, always the largest transit time is used. The factory calendar is considered only if this was enabled in Configuration wizard.

See Parallel Operation and Overlapping

Example

Operation sequences 1,2 and 3 are parallel: 2 hours each, A2 has a transit time of 2 hours.
Operation 4 is normal with 2 hours duration

```
A1     Start 8:00 - 12:00
A2     Start 8:00 - 12:00
A3     Start 8:00 - 12:00
Idle time A2: 12:00 - 14:00
A4     Start 14:00 - 16:00
```

Note:

The system works with internal cache. If you change the transit time per target resource, you must reopen the APS Graphical view.

8.10.2 APS Scheduling

APS Scheduling

- APS edit Scheduling
  - Master data
  - Resources
  - Views
    - View
    - Sub view
    - Field description
  - Calculation type

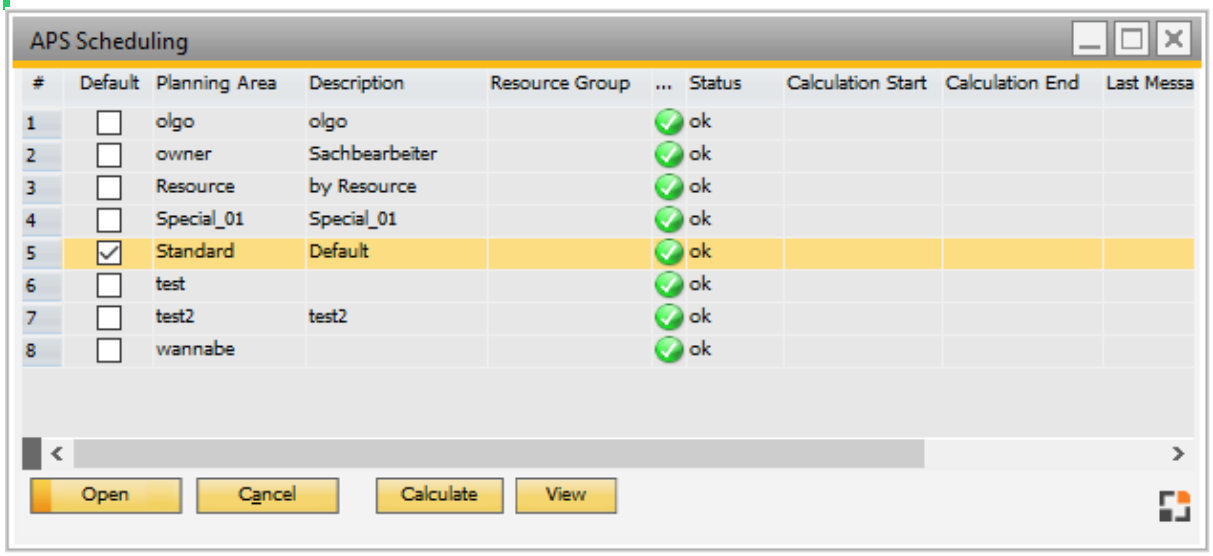
© 2026 Boyum IT Solutions A/S

Planning view

Each APS planning starts in the Planning types window. As long as no detailed scheduling on resource level is required, the planning view is the perfect tool for production scheduling on work order level. You can create a new scheduling or select from the existing ones. 2 pre-defined schedulings are delivered:

Resource	Resource-oriented
Standard	Order-oriented

PATH: Production > Capacity Planning > APS.



Window fert_xgantt_planing_browse.psr

Columns

Field	Meaning
Default	Flagged: this scheduling is used as standard.
Planning area	Name for planning area.
Description	Description of planning.
Resource group	Order-related planning for a resource group (assembly line XY).
Employee	Planning with reference to employee. In the resource the employee is deposited. Only work orders are displayed which require resources managed by the appropriate employee.

© 2026 Boyum IT Solutions A/S

Project	Project-related planning for project X.

Window settings for further fields are available.

Functions

Field	Meaning
View	Displays the APS View. ***See*** planning view (= double-click).
Remove	Deletes the scenario.
Open	Opens the scenario definition.
Add	Creates new scenario definition. ***See*** APS – edit planning.
Import Default	Reload the pre-defined schedulings If you start the APS the first time, or if you click on the button, the system loads the default scenarios and APS calculation types. NOTE: APS Standard methods have a description. If you click on "Default", the system imports the description in the current language and not in the language defined in the System language of the Configuation wizard, ***See*** APS Calculation Type - Description NOTE: If you click on this button, the system overwrites all currently defined scenarios and calculation types defined in the standard! The system does not delete own created calculation types or views. ***Example:*** You create a calculation type "Test" and change the view "Resource" and click on "Reload": - all changes in view "Resources" are deleted. The system overwrites this with the standard variant. - the system changes nothing in the calculation type "test" because it is not part of the standard variant.

© 2026 Boyum IT Solutions A/S

Calculate	Calculate the APS Scneario This function allows you to calculate the planning scenario directly in fore- or background: Note: If you want to calculate this automatically, for example overnight, you can define an activity. ***See*** Server activities Use the following command in the script, for example, which calculate scenario "olgo" `object=ue_aps_browse=calculate=olgo` or leave the scenario ID part of the script empty to calculate the default APS scenario.
Duplicate scheduling	Create a new, duplicate scheduling of the selected one. The "Copy" dialog box opens to enter new ID.

8.10.2.1 APS Edit scheduling

APS Scheduling

APS edit Scheduling

Master data

Resources

Views

View

Sub view

Field description

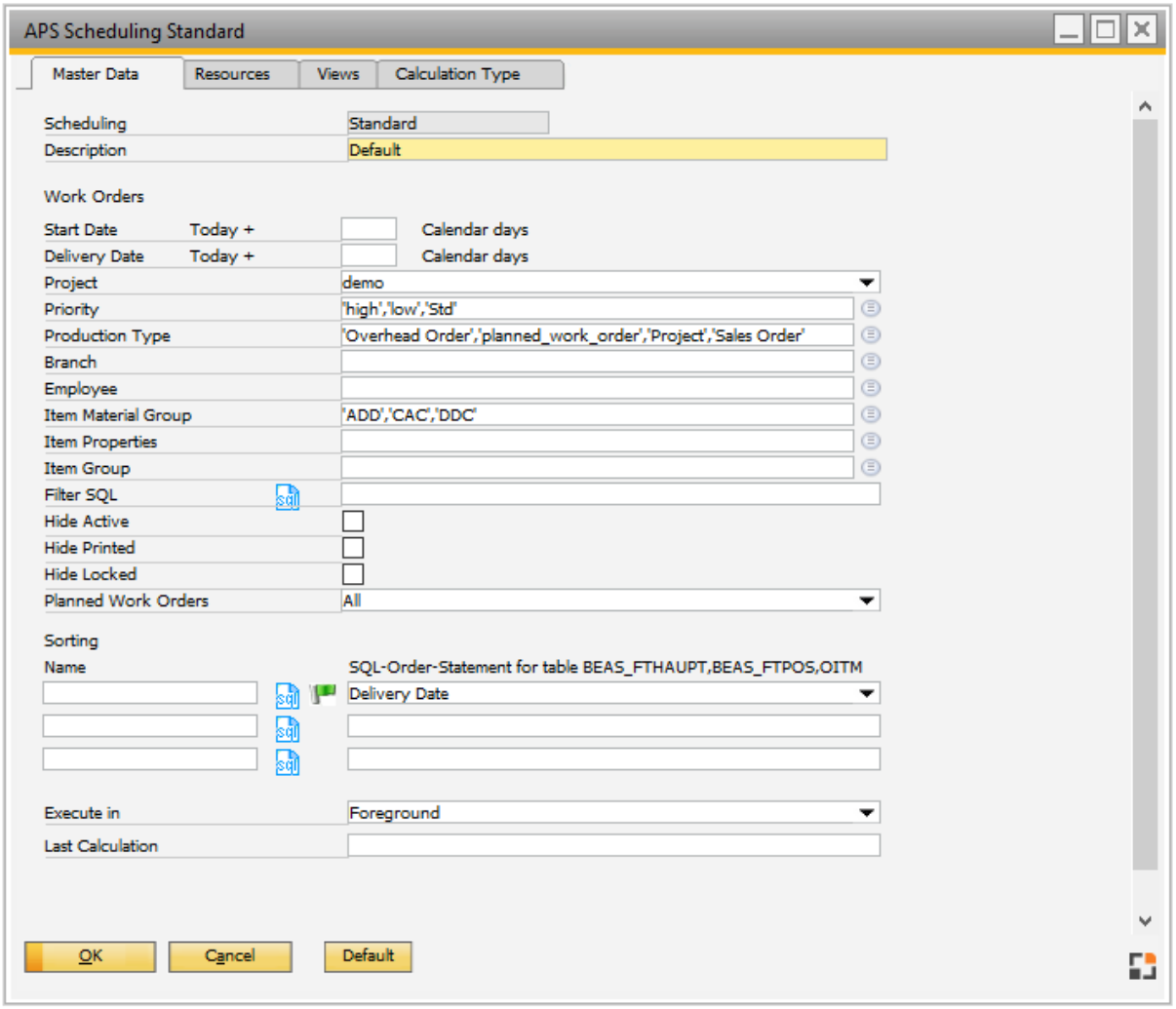
Calculation type

Scheduling view

Here you can define scenarios and determine which work orders, resources and calculation methods are available in the planning view.
For each scenario, there is a customizable scheduling window, different calculation types and a graphical view available, which can be configured individually in the settings. Depending on the type

© 2026 Boyum IT Solutions A/S

of organization, the user can set up different scenarios to fully meet the existing production planning requirements.



Window: fert_xgantt_planing_edit

Tab	Meaning
Master data	Filters and sorting criteria for planning view.
Resources	Selects resources to be considered in scheduling (set check marks).
Views	Defines Views for graphical display.
Calculation types	Defines which calculation types are available. Change the order with drag&drop. For further information ***see*** APS Calculation types.

Functions:

© 2026 Boyum IT Solutions A/S

Function	Description
Duplicate	Create a new, duplicate scheduling of the selected one. The "Copy" dialog box opens to enter a new ID.
Remove	Delete current scheduling scenario.
Default	A dialog box opens to confirm making the current APS Scheduling a default scenario.

back to APS Planning types

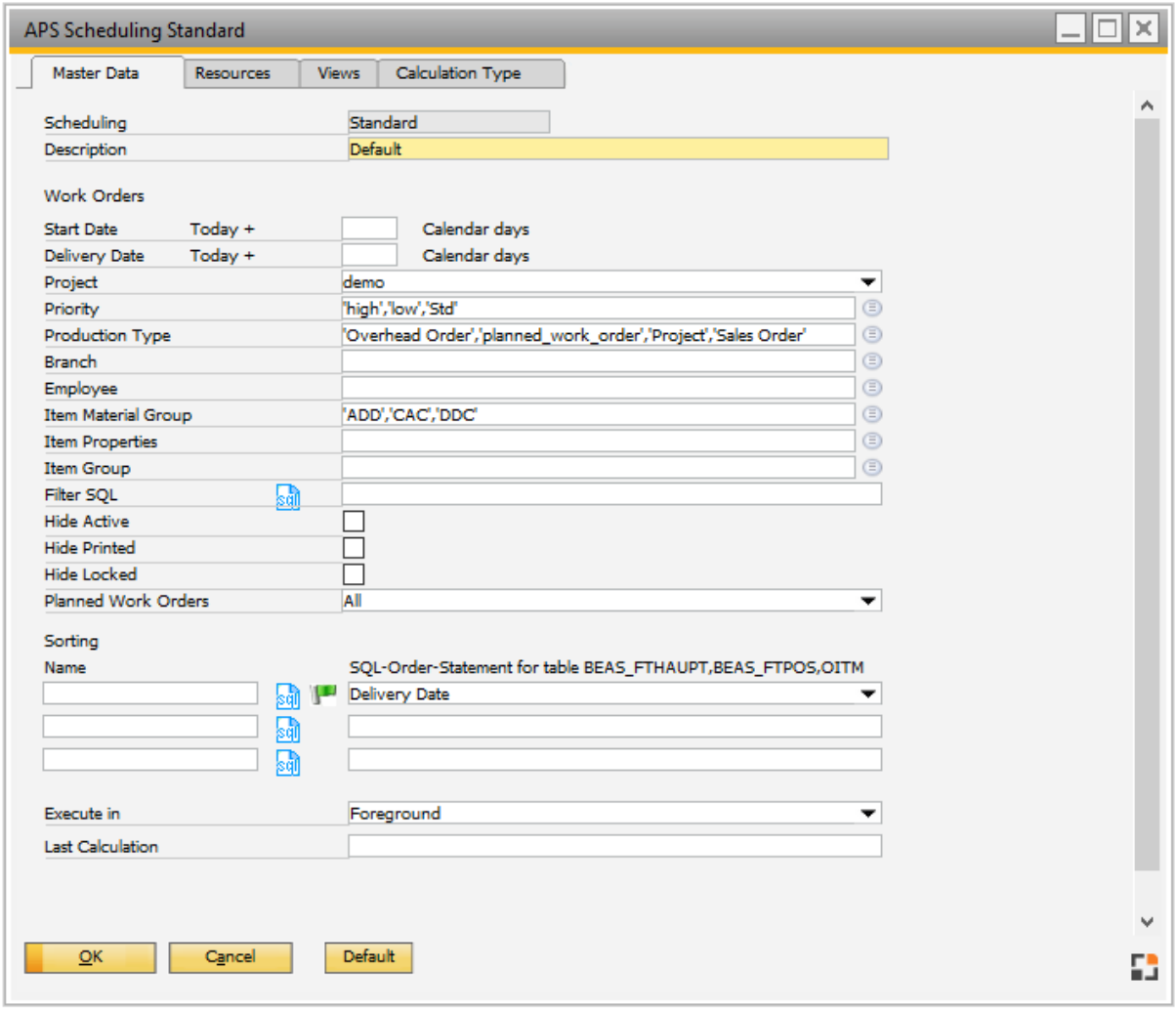
8.10.2.1.1 Master Data

APS Scheduling
APS edit Scheduling
Master data
Resources
Views
View
Sub view
Field description
Calculation type
Scheduling view

Master data

This tab includes the specific information for the APS execution: the name of the scenario, the work orders to be scheduled and special sorting.

© 2026 Boyum IT Solutions A/S



Window: fert_xgantt_planing_edit

Field descriptions

Field	Description
Scheduling	Name of scheduling.
Description	Description of scheduling, still changeable at this moment.
Resource group	If selected, only work orders from this group are displayed.
Employee	If selected, it displays only work orders containing a resource which is assigned to the respective employee. ***See*** resource master "employee planner".
Start date today+	⊟ Consider start date If a number is entered, it displays only work orders having a start date today + the given number of calendar days.

© 2026 Boyum IT Solutions A/S

	Beas uses the date which you defined in Production position – Start Date. If this was not defined, Beas uses the Start time field of the Production position which is determined automatically during work order creation using backward scheduling. **Important:** This works only if a start date was entered. Delete the entry to remove the filter. *Table fields:* *'BEAS_FTPOS'.'STARTZEIT'. If null: 'BEAS_FTPOS'.'ANFZEIT'*
Delivery date today +	Only work orders with a delivery date within the given period are displayed.
Project	Project filter: only work orders related to this project are displayed.
Priority	Define which work order to display filtered by priority.
Production type	Define which work order to display filtered by production type.
Branch	Define which work order to consider filtered by branch.
Employee	Define which work order to consider filtered by assigned employee (**Item master > Employee**).
Item material group	Define which work order to consider filtered by items linked to the material groups.
Item properties	Define which work order to consider filtered by items linked to the properties.
Item group	Define which work order to consider filtered by items linked to item groups. ***Example***: For example, if the user has created an item group called "Finished Products" in SAP, it can be selected here. Then, the APS scheduling window only displays work orders with items that are assigned to this item group.
Filter SQL	You can define which WO to be shown with a customizable filter. You can define a customized filter with an SQL statement. Click on the SQL Symbol to define the filter. In the SQL Editor, all available fields are shown. The filter can be defined and tested. The code entered is inserted behind “WHERE” and before “ORDER BY”. This filter uses the following tables: Work order BEAS_FTHAUPT

© 2026 Boyum IT Solutions A/S

	Work order position `BEAS_FTPOS` Item `OITM` ***Example:*** Only show items for which the item code starts with "A" `substring ("OITM"."ItemCode",1,1)='A'` Beas marks correct SQL statements with a green flag and incorrect SQl statements with a red flag. For more Information ***See*** SQL Editor Tips and tricks (sorting, filter, task descriptions) 10/2017
Hide Active	Enable to hide active work orders which are logged in or confirmed partly.
Hide Printed	Enable to hide printed work orders.
Hide Locked	Enable to hide blocked work orders. Exception: Planned work orders are still displayed.
Planned Work orders	Define view in dependence of the APS planned – flags. Work orders can be set APS planned, either automatically at calculation of the lead times or in Work order - Settings. ***Example :*** Only check already calculated WOs: In this case set to "Only planned". Only WO set to "APS planned" have to be considered (in this case e.g. released). In this case, select "Hide planned". Selection: **Hide planned**: Hide planned work orders. **All:** Show work orders. **Only planned**: Show only planned work orders.
Sorting	Sorting in List view Sortings can be set up. For the first sorting you can select from a list of templates or enter an SQL-Order-Statement. The standard sortings are as follows: **manual sorting:** Work orders can be sorted using drag & drop per scenario

© 2026 Boyum IT Solutions A/S

planned start: Work orders can be sorted by start time of the manufacturing assembly *('BEAS_FTPOS'.'STARTZEIT')*

Delivery date: Work orders can be sorted by delivery date of the assembly *('BEAS_FTPOS'.'LIEFERDATUM')*

Document number: Work orders can be sorted by document number and assembly position number

Project: Work orders can be sorted by project number and start time of the manufacturing assembly

Customer: Work orders can be sorted by customer number and start time of the manufacturing assembly

Item: Work orders can be sorted by item (assembly) and start time of the manufacturing assembly

Priority: Work orders can be sorted by priority ID *('BEAS_FTPOS'.'ABGKZ')*

For the next two criteria the name and the SQL-Order-Statement is to be entered.

Note: No syntax check is performed by Beas. If an invalid value is entered, this leads to error when opening the planning list. The entered sorting templates are displayed in planning view at the end of the templates list.

Tables `BEAS_FTPOS, OITM` and `BEAS_FTHAUPT` are available.

Example: `"BEAS_FTHAUPT"."AUFTRAG"` sort by order number

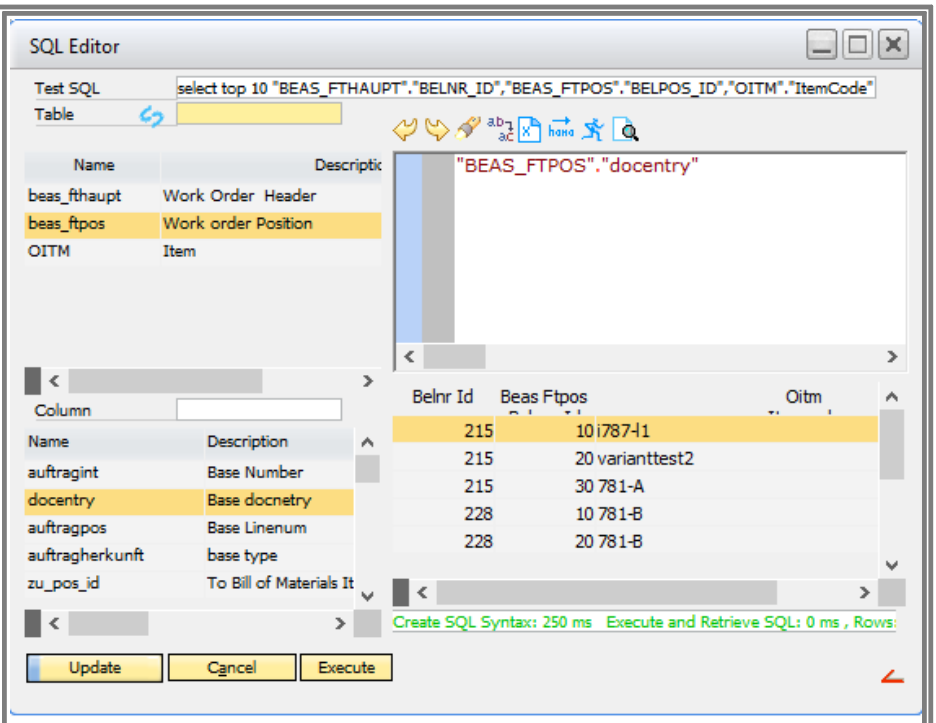
To define this, click on the SQL symbol. In the SQL editor you can only see the available tables.

Choose a table and a double-click on all necessary fields

If you execute the SQL statement, you can see the result.

If you click on update, Beas inserts this information in the scheduling window.

© 2026 Boyum IT Solutions A/S



Window sys_sqleditor.psr

For more information ***see*** SQL Editor.

Tips and tricks (sorting, filter, task descriptions) 10/2017

Execute in

Select how to execute the calculation:

Setting	Description
Background	When starting the calculation, a separate task for the calculation is opened. While the calculation is running, it is possible to work with Beas, and the APS Browser shows the status of the calculation. **Note:** Background execution does not support "Windows authentication" login mode. Use standard login to Beas for background operations.
Foreground	The calculation is done directly in the application. While the application

© 2026 Boyum IT Solutions A/S

	<table><tr><th>Setting</th><th>Description</th></tr><tr><td></td><td>is running, it is not possible to work in Beas.</td></tr><tr><td>Ask always</td><td>When starting the calculation, you can choose if the calculation should be done in back- or foreground.</td></tr></table> Note: If you want to calculate this automatically, for example overnight, you can define an activity. ***See*** Server activities
Last calculation	Date and time of the last calculation of this scenario.

Functions:

Function	Description
Duplicate	Create a new, duplicate scheduling of the selected one. The "Copy" dialog box opens to enter new ID.
Remove	Delete current scheduling scenario.
Default	A dialog box opens to confirm making the current APS Scheduling a default scenario.

8.10.2.1.2 Resources

APS Scheduling

APS edit Scheduling

Master data

Resources

Views

View

Sub view

Field description

Calculation type

Scheduling view

© 2026 Boyum IT Solutions A/S

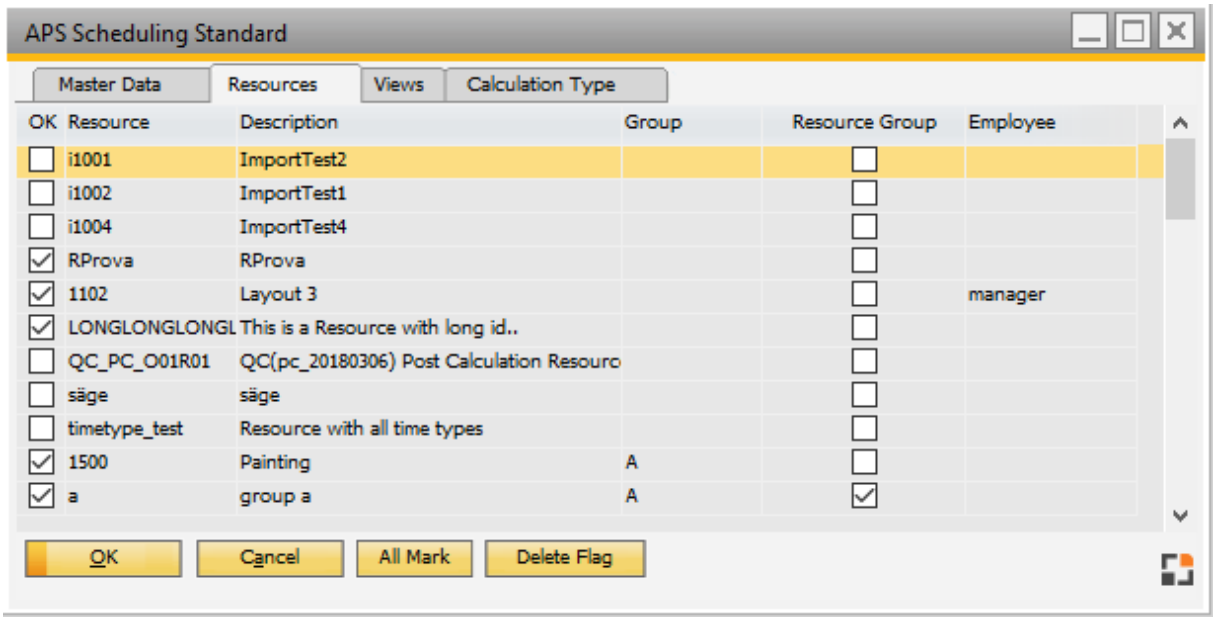
Resources filter

Define the filter on resource level here. This is active if at least one entry has been selected.

The resources are displayed by resource group + resource ID or resource optimization sorting if this function is enabled for this resource group.

The filter has the following meaning:

Display all work order positions if the resource was stored somewhere in the work order on routing level.



Window fert_xgantt_planing_ressource.psr

Column	Meaning
OK	Activate to select this resource.
Resource	Resource ID.
Description	Resource ID.
Group	Resource belongs to the indicated resource group .
Resource Group	This resource is a resource group.
Employee	Responsible employee.

Functions:

All Mark: By clicking on this button, you can easily select all resources to be considered for the scheduling.

Delete flag: Click on this button to clear all the existing checks for resources.

© 2026 Boyum IT Solutions A/S

Note:

- The belonging resources also have to be selected if a resource group has been selected
- Parallel or alternative resources are not considered.

LIMITATION ON TOOLS:

Important: In APS, the system calculates interruption time ONLY for resources. Tools do not have a precalculated calendar, and Beas does not check interruption on Tool level.

- Always searched on WO level

Example:
Order 1, assembly 10: includes resource A1
Order 1, assembly 20: includes resource A2

Filter on resource A2:
Display assembly 10 and assembly 20 in this case.

Reason: A structure search would be alternatively, so check if this resource is stored somewhere in the assembly structure. This can also be in the sub-assembly. But a structure search per SQL is not possible. The speed would be greatly reduced.

This problem appears only if multiple assemblies are inserted in a WO on top level (Summarized order). Should be avoided.

- Adjust of the resource filters

The function of the filter changed completely *(beas 9.2 PL: 02)*

```
windowevent setresourcefilter
// value -> the new sql statement
// e_resourcefilter -> all choosed resources, example 'A001','A002'
```

Default SQL Statement for this Filter

```
(SELECT count(*)
FROM "BEAS_FTAPL" a
INNER JOIN "BEAS_FTPOS" p on a."BELNR_ID"=p."BELNR_ID" and
a."BELPOS_ID"=p."BELPOS_ID" and isnull(p."ABGKZ",'N')<>'J'
WHERE a."BELNR_ID"="BEAS_FTPOS"."BELNR_ID" and isnull(a."ABGKZ",'N')<>'J' and
isnull(a."AKTIV",'J')='J' and a."APLATZ_ID" in (<e_resourcefilter>)) >0
```

© 2026 Boyum IT Solutions A/S

Example:

Check only current work order position and not all work order positions from current work order

```
windowevent setresourcefilter
#define value
(SELECT count(*)
FROM "BEAS_FTAPL" a
WHERE a."BELNR_ID"="BEAS_FTPOS."BELNR_ID" and
a."BELPOS_ID"="BEAS_FTPOS."BELPOS_ID"
and isnull(a."ABGKZ",'N')<>'J' and isnull(a."AKTIV",'J')='J' and a."APLATZ_ID"
in (<e_resourcefilter>)) >0
#end
end event
```

8.10.2.1.3 Views

APS Scheduling

APS edit Scheduling

Master data

Resources

Views

View

Sub view

Field description

Calculation type

Scheduling view

This tab defines general parameters for the Gantt graphical view. The window shows a list of the existing views.

New views may be added and removed and a view can be defined as default view via the **Default** button.

For more information ***see:***

Tips and tricks (sorting, filter, task descriptions) 10/2017

8.10.2.1.3.1 Views

APS Scheduling

APS edit Scheduling

Master data

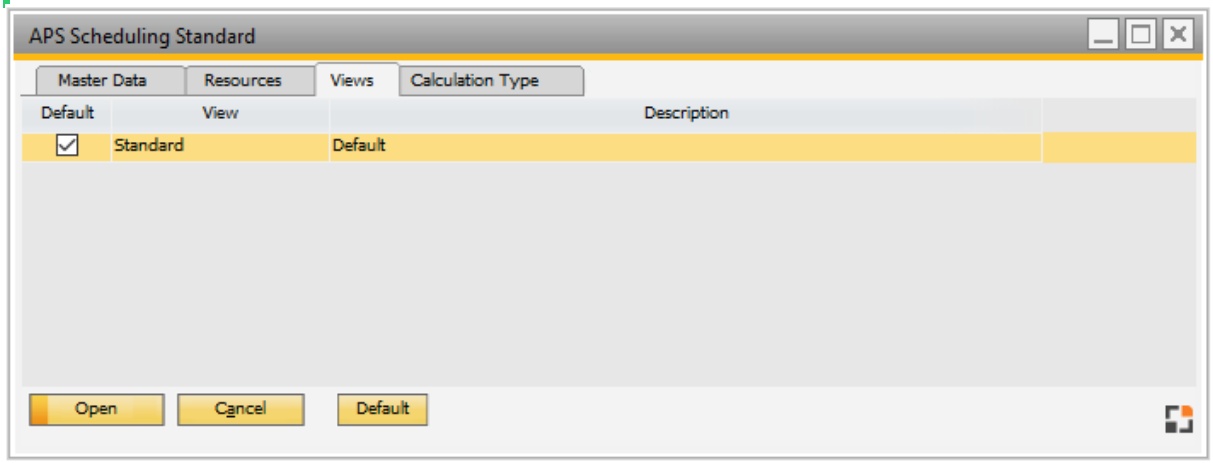
Resources

© 2026 Boyum IT Solutions A/S

Views
View
Sub view
Field description
Calculation type
Scheduling view

In this Tab you can define how the work order should be displayed in the Gantt.

Production > Capacity Planning > APS > **Add** > **Views** tab

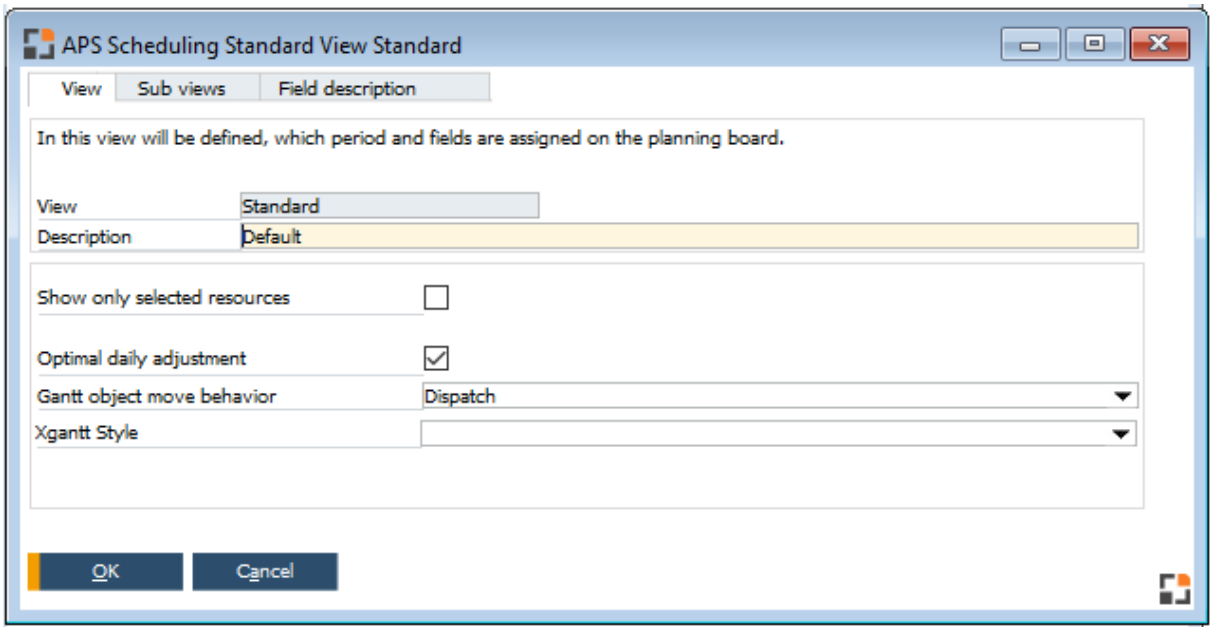


Window fert_xgantt_view_browse.psr

Default button: Sets the selected row as default.

Production > Capacity Planning > APS > **Add** > **Views** tab > **Add** or **Open**

© 2026 Boyum IT Solutions A/S



Window fert_xgantt_view_edit.psr

View tab

Field	Description
View	Unique name of the view
Description	Description of the view.
Show only selected resources	Only displays resources which were selected in the planning (APS / VIEW). The operation sequences are not linked to the arrows. Resources can be arranged in groups in the Gantt view.
Date area from today minus days	Define the time range in which the work orders are going to be displayed. This is defined in calendar days. ***Example***: If the user enters from "1" to "30", all work orders are displayed from 1 day in the past to 30 days in the future.
Optimal daily adjustment	Determine whether the day view should be scaled automatically. In most cases, it is better not to use this parameter and to define a fixed value.
Gantt object move behavior	The behavior of APS after moving an operation sequence can be defined here Determines the behavior when the user moves an operation in the Gantt chart graphical viewer.

© 2026 Boyum IT Solutions A/S

	<table><tr><th>Action</th><th>Description</th></tr><tr><td>No action</td><td>Operation sequences can be moved freely. Useful if group function is used. An automatic optimized dispatch has to be done afterwards.</td></tr><tr><td>Mark</td><td>The operation sequence is fixed and marked after the scrolling. If a scheduling is done afterwards, all work orders with marked operation sequences are re-calculated. The operation sequence is not moved because of the fixing.</td></tr><tr><td>Dispatch</td><td>The operation sequence is fixed and marked and immediately dispatched after moving. Thus the change is immediately recognizable in the dispatch display. Resource limits are not considered. The "Forward scheduling" method is dispatched. Possibly the operation sequence is moved again automatically up to the first work hour. The duration is corrected accordingly.</td></tr><tr><td>Dispatch with resource limits</td><td>The resource limits are considered. After this, the movement of the operation sequence could be moved again – up to the first free time of the resource, and the duration is adjusted accordingly (depending on the resource capacity of this date).</td></tr><tr><td>Fix, dispatch and hold together</td><td>The next free time slot is searched and the operation sequence can be fully inserted in it.</td></tr></table>
Xgantt Style	Select Gantt viewer style:

© 2026 Boyum IT Solutions A/S

	- Fiori style (old): View APS results as in Beas Manufacturing versions older than 2021.03 **- Boyum new Style:** View APS results that is based on Boyum color codes and fonts, and that provides enhanced user experience. ***See*** Boyum new Style Gantt viewer.

Sub View tab

Field Description tab

APS Planning

APS edit Planing

Master data

Resources

Views

View

Sub view

Field description

Calculation type

Planning view

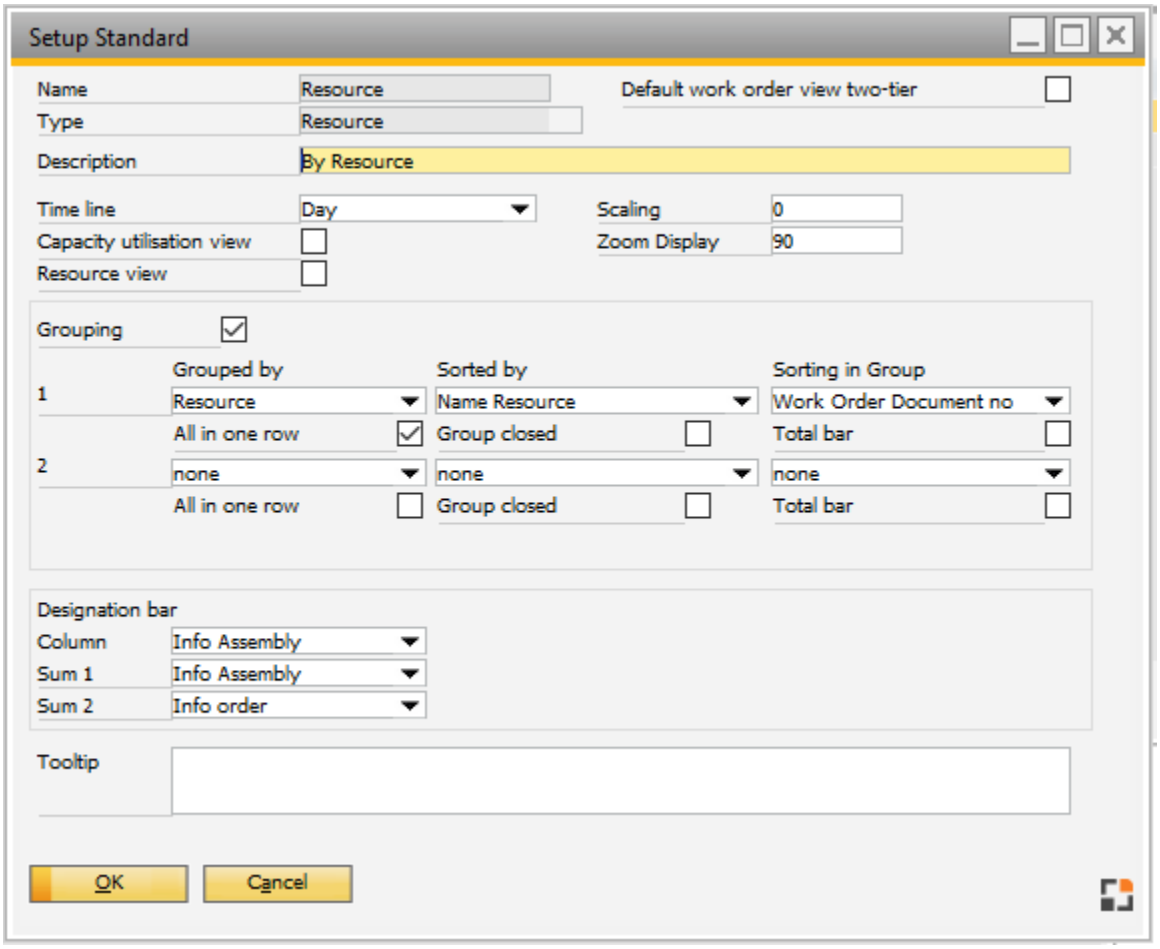
Sub view

Grouping, sorting and field descriptions are defined in the sub view.

The sub view can be changed in Gantt without leaving it.

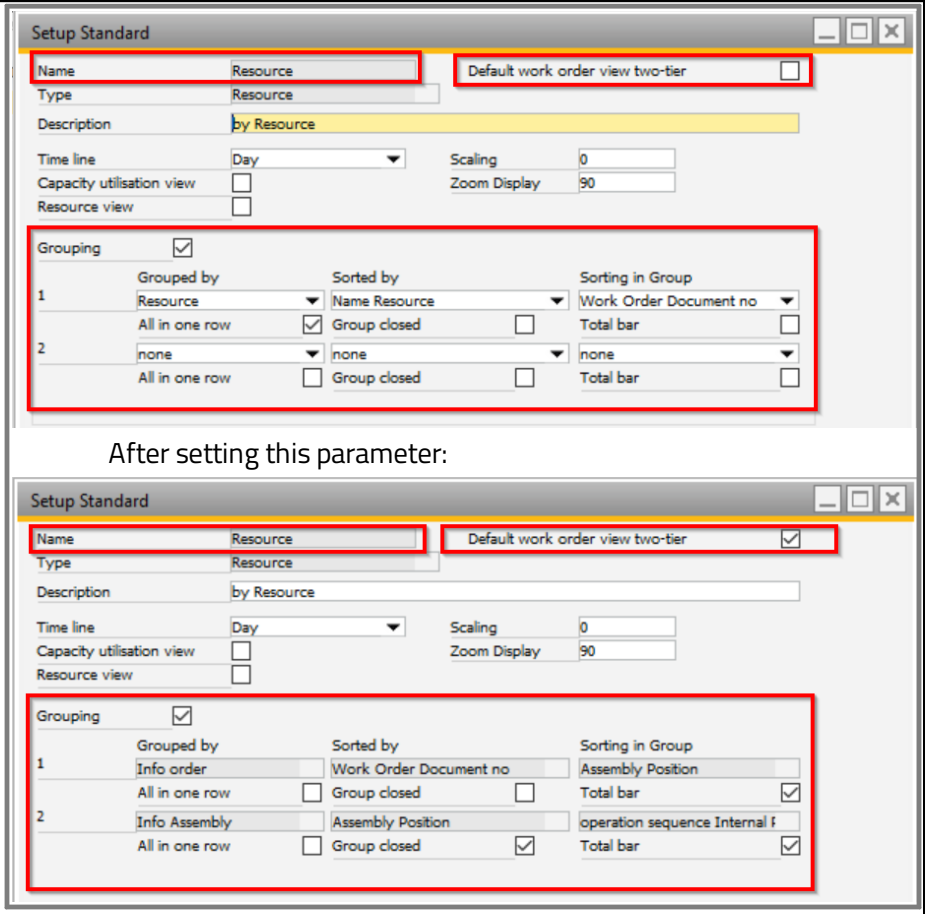
> Production > Capacity Planning > APS > **Add** > **Views** tab > **Add** or **Open** > Sub views tab > **Add** or **Open**

© 2026 Boyum IT Solutions A/S

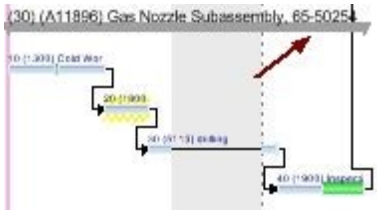


Field	Description
Name	Name of the sub view.
Default work order view two tier	Set the standard sub-view as default instead of the one defined in the grouping area. If this field is enabled, all previous information saved in the grouping area is replaced by the standard sub-view parameters. ⊟ Example Before setting this parameter:

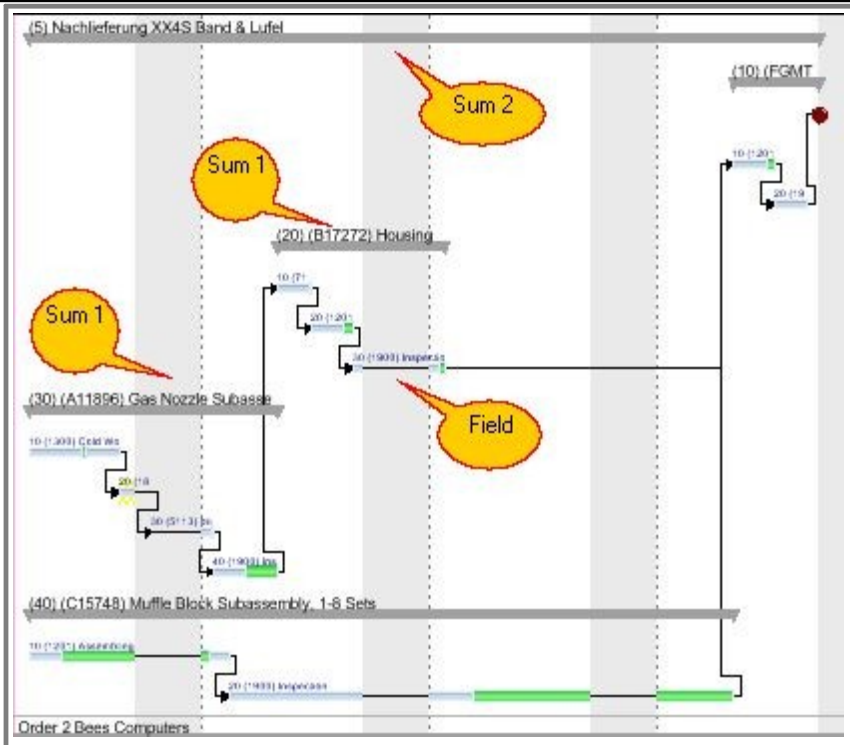
© 2026 Boyum IT Solutions A/S

Field	Description
	 After setting this parameter:
Type	Define whether the view is “Resource” or “Order” type.
Description	Description of the sub view. **Note**: The text in the description is displayed later in the selection list in the graphical view. As a recommendation, do not select a long description, as the selection list can only display a limited number of characters.
Time line	Determine whether the graphical view should be displayed in hours, days, weeks, months or years. By default, Beas sets this with the value “Day”.
Scaling	Set the scaling factor based in time units. This factor is taken into account in the time line scaling (Time units per mm. Set to1000 by default).
Zoom Display	The total Gantt-display can be decreased / increased. (Display in percentages.)
Dispatch Display	If enabled, graphically displays the utilization of the resources in addition to the graphical display of work orders in the Gantt view.
Resource Display	If enabled, graphically displays the reservation of the resources in addition to the graphical display of work orders in the Gantt view.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>Important: Since the available space is limited, the user should only activate what is really needed.</td></tr>
<tr><td>Grouping</td><td>If a grouping has to be done. A grouping can totally be done on two levels, e.g. Resource group - Resource or Document - Document Position or Project - Document number.</td></tr>
<tr><td>Grouping by</td><td>Provide field name as the basis of sorting.
The selected field name will be displayed on the left side. That is why sorting by "Info Order" is possibly by which the information to the work order will also be displayed instead of only the document number.
Useful grouping possibilities:
<table><tr><td>Order oriented</td><td>Info Order - Info Assembly</td></tr><tr><td>Resource oriented</td><td>Resource name</td></tr><tr><td>Resource oriented by resource groups</td><td>Resource group, Resource name</td></tr></table>
Own fields are also definable (Views - Field Description) and then sortable, eg. raw material, material thickness etc.</td></tr>
<tr><td>Sort by</td><td>Sort criteria of the group</td></tr>
<tr><td>Total bar</td><td>If a total bar has to be displayed for the grouping (gray bar above the process). This bar is only useful in a order oriented view.
 
Example with display of a total bar</td></tr>
<tr><td>Sorting in group</td><td>Determine the sorting in a group</td></tr>
<tr><td>Field
Sum1
Sum2</td><td>How the fields and sum bars are described can be determined here:</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	 **Description field bar and sum bar** The default caption is: Field: Info operation sequence Sum 1: Info assembly Sum 2: Info order A field can be selected or (better alternative) the field (Info operation sequence) can be changed directly in Views - Field Description.
tooltip	After the mouse has been placed on an operation sequence but no mouse click has been done, a tooltip opens automatically. The resource as well as the information to this operation sequence are displayed there. ⊟ Details: Which field has to be displayed can be determined in this field. The default will be used if this field is empty. ***Example***:

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>

```
Resource: <xgantt.datafield.17>
<xgantt.datafield.18><cr_lf><xgantt.datafield.20><cr_lf><xgant
t.datafield.21><cr_lf><xgantt.datafield.22>
```

Following fields are available:

See: Table Setup.

A script can be stored alternatively.

For this the syntax has to begin with the word "`script`" and the variable "`value`" returns what must be displayed in the tool tip.

Example:

Valuation of the field Resource type (16)

A	Parallel Resource
W	Tool
F	External operation
R	Operation sequence (green area)
L	Delivery date (red point)

```
script
if <xgantt.datafield.16> = A then
  setvar=value=<spr:Parallele Ressource>
  return success
end if
if <xgantt.datafield.16> = W then
  setvar=value=<spr:Werkzeug>
  return success
end if
setvar=value=<spr:andere Ressourcen>
return success
```

</td></tr>
</table>

APS Planning

APS edit Planing

Master data

Resources

Views

View

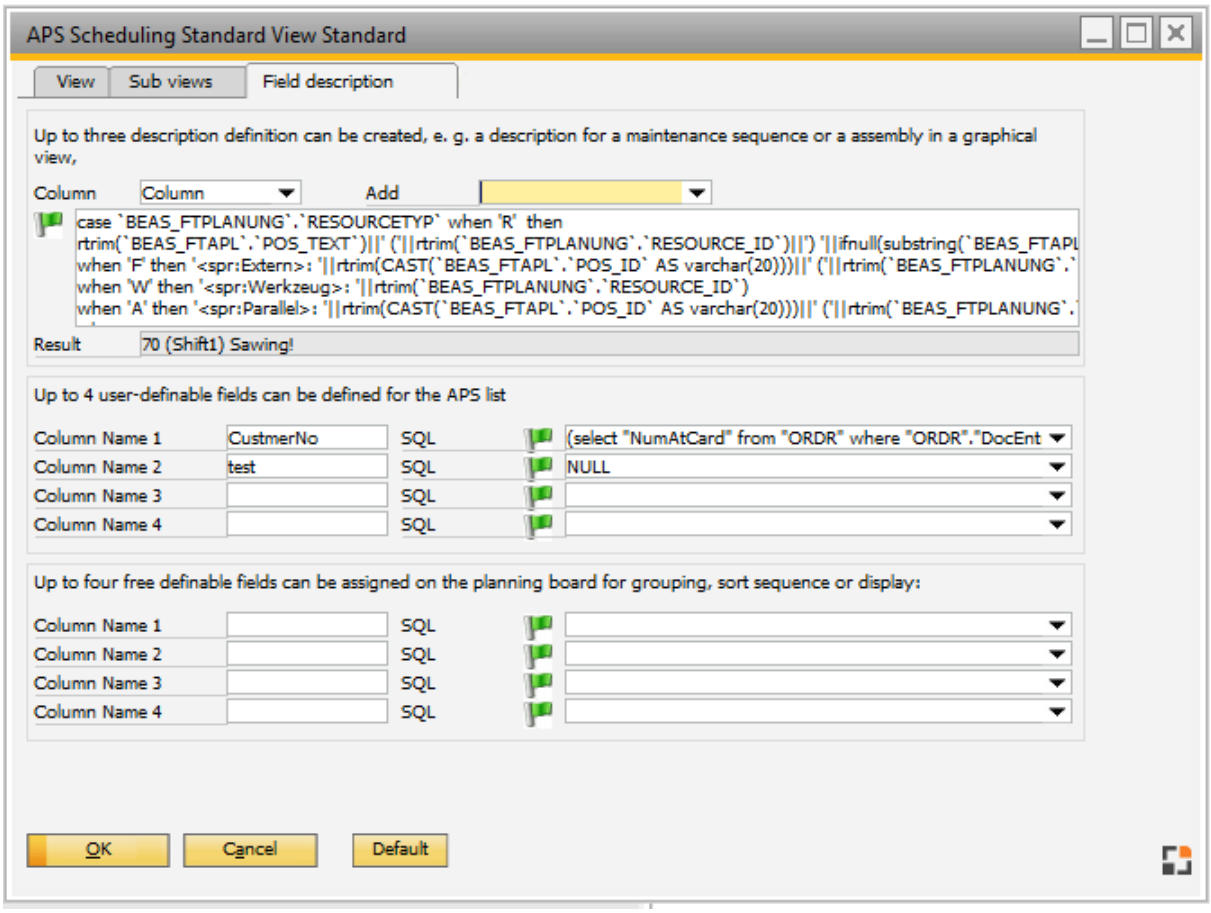
Sub view

Field description

© 2026 Boyum IT Solutions A/S

Calculation type

Planning view



Following can be defined in detail in the tab "Field description":

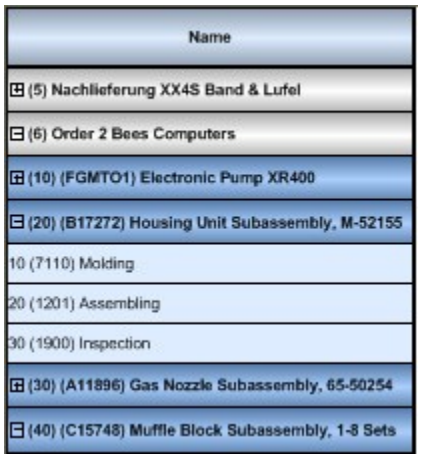
1. Definition of the sum description and operation sequence description
2. Up to 4 additional freely definable fields

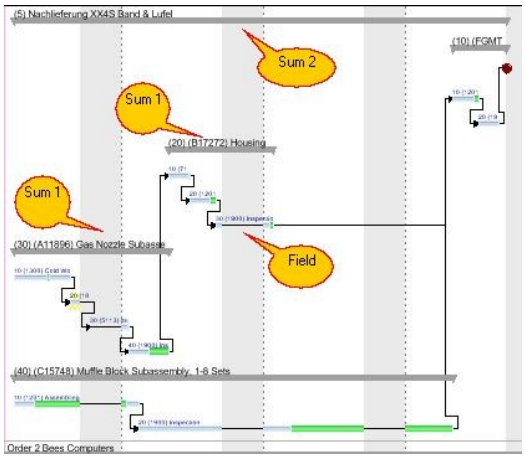
These pieces of information are determined directly using SQL-fragments. Although this method is not very simple, it is very flexible.

Designation information

The sum bar and operation sequences can be described in Gantt. The grouping and the description of the task can be done additionally at this information on the on the left side.

© 2026 Boyum IT Solutions A/S





The grouping and so the view on the left side can be defined in the Sub view.

The designation can be defined using SQL-Instruction. The SQL-Instruction is allowed to recall only one Varchar-String. Numbers have to be converted in string via the convert-instruction. The field is formatted correctly and converted if it has been selected by adding. The result is displayed immediately in the field "Result". The green/red flag shows if the instruction is correctly.

Default setting designation:

Column	Document position, Resource, Activity
Sum 1	Document position, Item, Item description
Sum 2	Document position, Order, Customer name

There is an access to the following tables to insert additional fields:

BEAS_FTAPL	Operation sequence
BEAS_FTPOS	Assembly
BEAS_FTHAUPT	Work order
OITM	Item information of the assembly

An access to all others tables is also possible via sub instruction.

```
(select x from mytable where y=z)
```

Example:

Examples are displayed in HANA-Syntax. These examples can also be used in the MSSQL-environment, because Beas converts these in MSSQL-Syntax for runtime.

© 2026 Boyum IT Solutions A/S

Operation sequence with item + describe material

Field - Description - Column "Sum 2"

```
RTTRIM("BEAS_FTPOS"."ItemCode") || ' '+rtrim("OITM"."U_WST_ID")
```

Work order position:

Statement position number, Item number, Description, Already posted in quantity, Total quantity

Cancellation or "manual complete" are no considered at this example.

```
'('||rtrim(CAST("BEAS_FTPOS"."BELPOS_ID" AS varchar(10)))||') ('||
rtrim("BEAS_FTPOS"."ItemCode")||') '|| rtrim("BEAS_FTPOS"."ItemName")||' '||
CAST(CAST(ifnull(
  (select sum("InvQty") from "IGN1" where "U_belnrid"="BEAS_FTPOS"."BELNR_ID"
and "U_belposid"="BEAS_FTPOS"."BELPOS_ID" and ifnull("U_posid",0)=0)
  ,0) AS int) AS varchar(20)) || ' <spr:von> ' ||
CAST(CAST("BEAS_FTPOS"."MENGE" AS int) AS varchar(20))
||' '||rtrim("BEAS_FTPOS"."ME_LAGER")|| ' <spr:fertig>'
```

Relevant commands for formatting:

`rtrim()`	delete subsequent spaces
`convert(varchar(10),field)`	Convert number or date to characters
`ifnull(field,'')`	Pre-assginment of the result with space string, if it is not already assigned

Note:

Not all fields are always filled. You must ensure that a ZERO is not returned.

You can intercept this e.g. using is zero():

```
coalesce(rtrim("OITM"."U_BEASWST_ID"),'')
```

User-definable fields for APS view

Up to 4 freely definable fields can be defined for the graphic view and 4 fields can be defined for the APS Work order list.

Available fields:

© 2026 Boyum IT Solutions A/S

Field name	Description of the field (will not be translated)
SQL - Checking - Flag	Display if the entered SQL-instruction is correctly SQL-instruction is correct An error was detected in the SQL-instruction
SQL Instruction	SQL - fragment. Here will be displayed which information has to be displayed. **Available tables:** In list and graphic view: Work order position `BEAS_FTPOS`, Work order `BEAS_FTHAUPT` as well as Item master `OITM`. Only in the graphic view: Routing `BEAS_FTAPL`, Resource `BEAS_APLATZ`

Example:

A field can be defined as "Material" if a Grouping for eg. by "Material is required

Field name: Material

SQL: `coalesce(rtrim("OITM"."U_BEAS_WST_ID"),'')`

The sorting and grouping of the material is immediately available in the Sub view definition.

8.10.2.1.4 Calculation type

APS Scheduling
- APS edit Scheduling
  - Master data
  - **Resources**
  - Views
    - View
    - Sub views
    - Field description
  - **Calculation type**
- Scheduling view

Define which calculation types are available for this view. Add and remove a calculation type from the right-click menu.

© 2026 Boyum IT Solutions A/S

Column	Description
Calculation type	Choose the calculation type.
Description	Description of chosen calculation type.

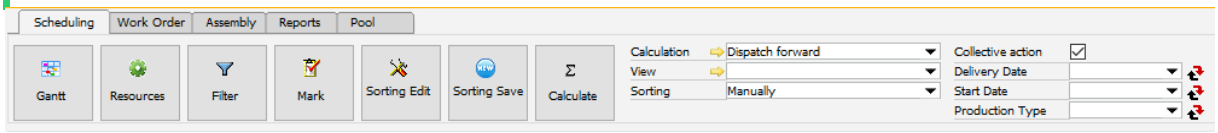
8.10.2.2 Planning view

APS Scheduling

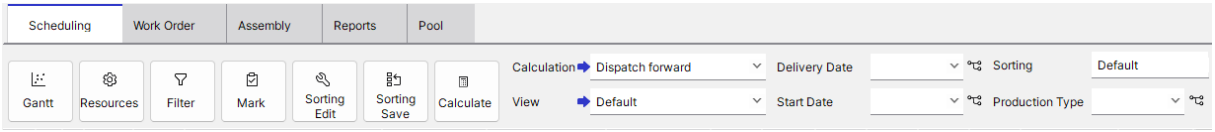
APS Edit Scheduling

Scheduling view

PATH: Production > Capacity planning > APS > select an entry > click **View**.



Boyum Style top bar design:



Window fert_aps_browse.psr

The planning view provides the following possibilities:

1. Filter production orders by resource usage and other criteria
2. Sort production orders
3. Plan and dispatch production orders
4. Change/set flags

Multiple selection and mass operations are supported. ***see*** Multiple selection.

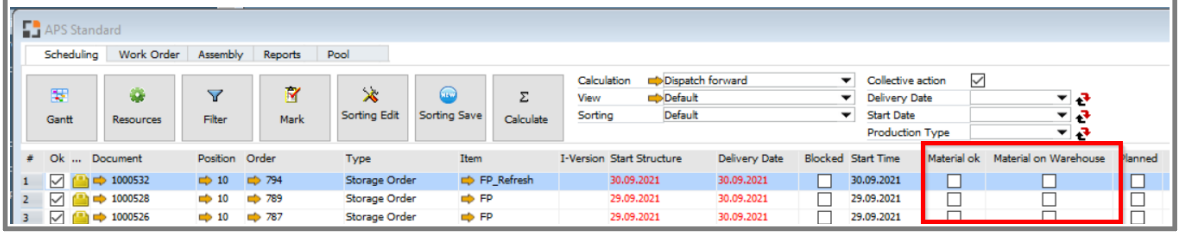
Only work orders are displayed which:
- correspond to the above chosen filter settings
- require at least one of the selected resources.

The structure of the production can be freely defined via right-click > window settings. There a number of columns available that can be displayed.
Further filtering and sorting is possible at any time by right-clicking on a column heading.

© 2026 Boyum IT Solutions A/S

Note on Item breakdown

Important: If no Breakdown method is defined in the Item Master data, "Material ok" and "Material on Warehouse" flags are displayed incorrectly, and therefore the item will not be considered correctly in the APS calculation!



Scheduling

Functions in upper ribbon:

Button	Meaning
Gantt	Open the Gantt view, display all work orders, for which the column "OK"- was checked.
Resources	Open a selection window, which are considered at the Planning. ***See*** Notes APS - Planning - Resources
Filter	Open filter settings (priority, document number, start-/delivery date, project etc)
Mark	Multiple entries can be marked by using the multiple marking function. These selected entries can be activated / deactivated for the calculation or other collective actions via the button "**Mark**" (Check mark in column "OK" will / will not be set) The selected work order is marked (In the first column of the production list a check mark is set (OK).
Sorting edit	Active: you may sort the work orders by drag and drop. It is possible to select multiple entries and to move the highlighted area. When the mouse cursor points on the icon of the list, the cursor changes to a up/down arrow to point that you can

© 2026 Boyum IT Solutions A/S

Button	Meaning
	move the entry with drag and drop up or down. To do so, keep the Ctrl key pressed and use the left mouse button to select multiple entries. To select a range, click on the first entry, hold the Shift key and click the last entry with the left button.
Sorting save	Saves the current sorting and exits the "Sorting edit" mode. **Explanation on sorting:** If 2 production orders start simultaneously and both require the same resources, the first production order receives the free resource first and the second can only be scheduled afterwards. The sequence therefore determines which production order receives the free resources first.
Calculate	Starts the scheduling of all marked work orders.

Field descriptions

Field	Description
Calculation	Shows the current calculation type. The orange reference arrow opens the setting APS Calculation types .
View	Current view (default) The orange reference arrow opens the settings of planning view.
Sorting	Select from different sortings. ***see*** APS edit planning.
Collective action	Set check mark, to perform the action selected in lower field for all marked work orders.
Delivery date	Select delivery date, with click on the red/black icon the change is applied to all marked work orders.
Start date	Select start date, with click on the red/black icon the change is applied to all marked work orders.
Production type	Select production type, with click on the red/black icon the change is applied to all marked work orders.

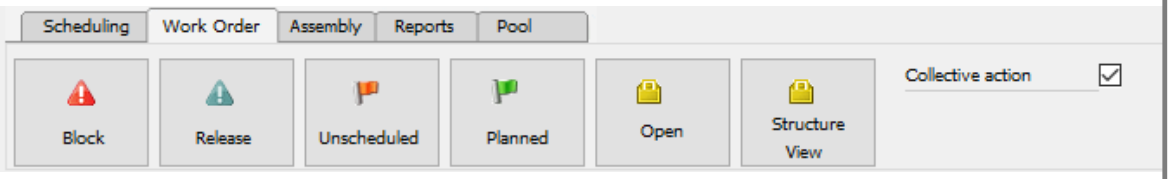
Right-click functions:

© 2026 Boyum IT Solutions A/S

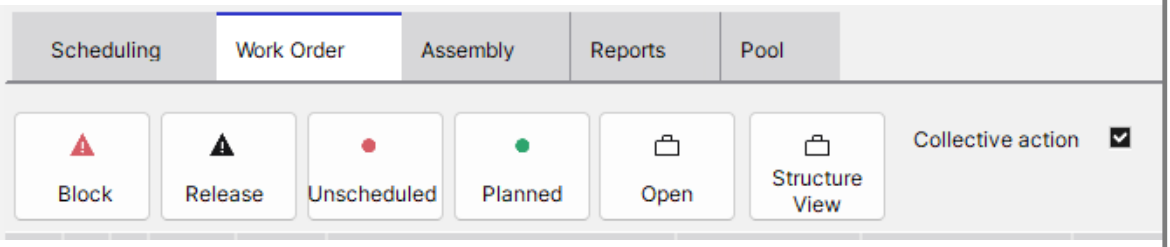
Function	Description
Open	Open selected order.
View Update	Update the scheduling view.

Work Order

In this tab you can manage work order capacity planning.



Boyum Style top bar design:



Work order tab

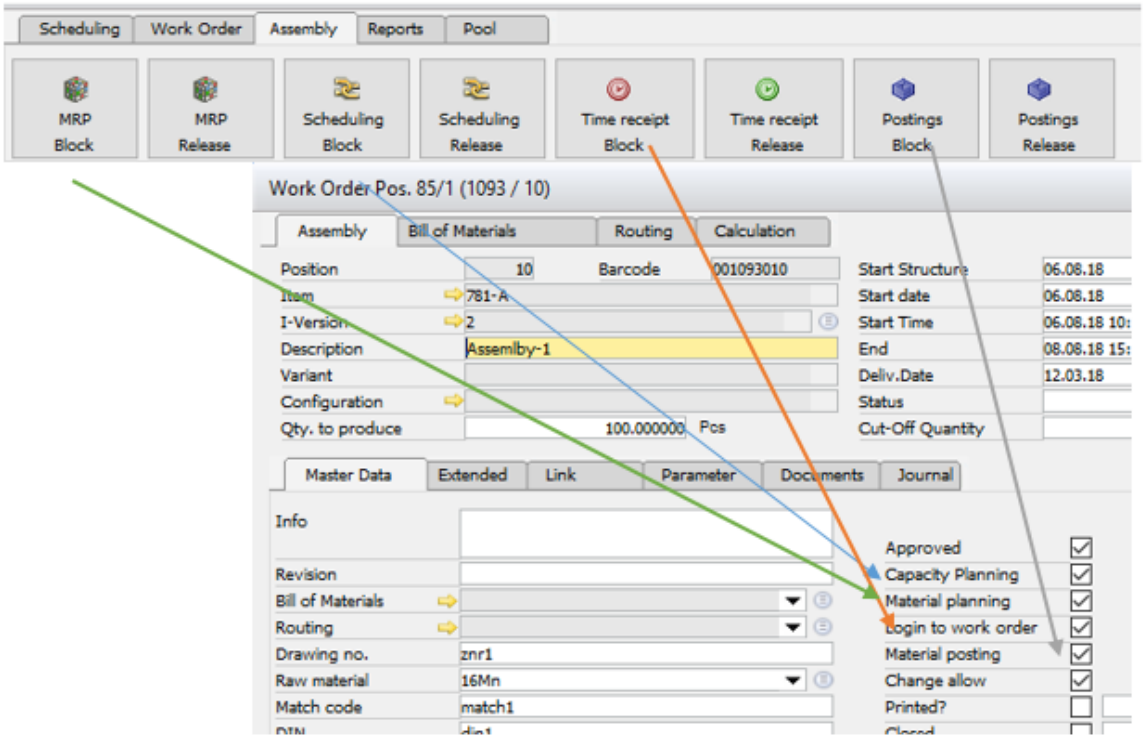
Button	Meaning
Block	A blocked work order is not dispatched, it has no calculated start or end date, and no times are reserved. You cannot select the work order via FDC or posting windows.
Release	Work order is released for planning.
Block scheduling	Set selected scheduling scenario(s) to blocked.
Release scheduling	Set selected scheduling scenario(s) to is released.
Unscheduled	Set all marked work orders to unplanned.
Planned	Set all marked work orders to planned. More detailed settings: Calculation types: e.g."do not reschedule planned work orders".
Open	Open the selected work order.
Structure view	Open the structure view for the selected work order.

© 2026 Boyum IT Solutions A/S

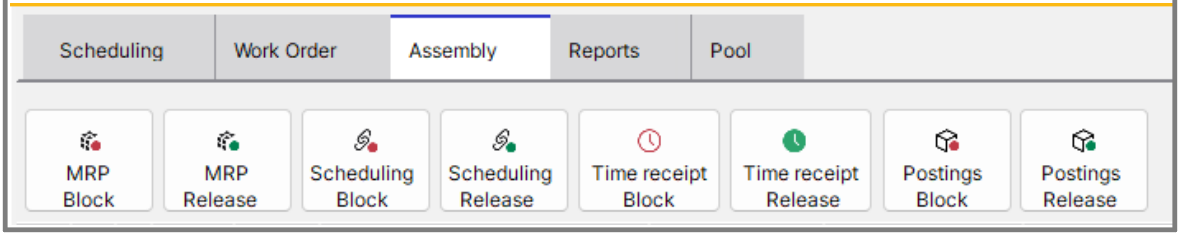
Field	Meaning
Collective action	Perform the selected action for all marked work orders.

- Assembly

Here you can change flags directly from APS View in a work order position.

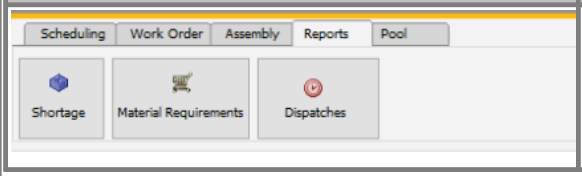
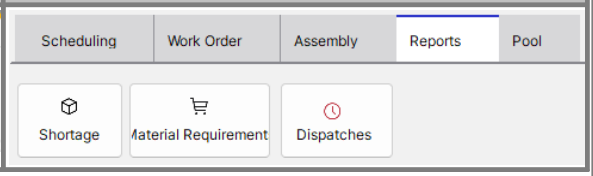


Boyum Style (Beta) top bar design:



- Reports

Under the Reports tab you can handle 3 main attributes of the selected work order:

Traditional style	Boyum Style
	

© 2026 Boyum IT Solutions A/S

Window fert_aps_browse.psr

Reports tab buttons

Button	Meaning
Shortage	Opens a list of shortages for the selected work order. ***See*** Shortage
Material requirements	Opens the material requirement list for the selected work order. ***See*** Material requirements
Dispatches	Shows all dispatches of all resources for the selected work orders. Filter works by work orders, not by assemblies. ***Example***: Work order 5 Assembly 10 – Resource 1001 Assembly 20 – Resource 1002 If now, at work order 5, assembly 10 is selected, all dispatches for resource 1001 and resource 1002 are displayed. ***See*** dispatches

Pool

Button	Meaning
Calculate	Calls the function pooling.
Administrate	Open the Pool structure list.

Available fields in the list view

Field	Meaning
OK	If marked, work order is selected and will be considered for the current action.
Document	Number of work order document.
Position	Word order position.

© 2026 Boyum IT Solutions A/S

Work order	Work order number.
Type	Production type.
Item	Item.
Blocked	If active, the item cannot be scheduled.
Planned	Already planned?
Printed	Already printed?
In work	Work order already started? Active if there is a time receipt registered for the work order assembly.
Start fix	Fixed start date If there is a routing position within the work order position (and sub-structure) with the flag "start fix" is activated, the flag "Start Fix" is active. ***Example***: if you move a routing position inside the APS graphical view, Beas activates this flag automatically. Note: Beas refreshes this field only if you recalculate the work order position.
Schedule automatically	Work order is automatically rescheduled if relevant information is changed.
MRP	Visibility in MRP: if active, released for material scheduling.
Scheduling	Capacity planning: if disabled, resources are not reserved.
Time	Disable: no display in pool list, order time receipt blocked.
Booking	Disable: Material postings on this BoM item are blocked.
Start structure	Planned date: if red, start is in the past. You can edit this field directly in this window after setting it to Changeable in Window settings.

© 2026 Boyum IT Solutions A/S

Start date	Actual planned start of assembly production (calculated).
End date	Actually calculated end date.
Delivery date	Delivery date of work order. You can edit this field directly in this window after setting it to Changeable in Window settings. You can insert the Date directly or can open the calendar by clicking on the drop-down icon. Note: Right-click function is not working here.
Material OK	Display Material status. **When calculated before scheduling** Active if there are planned receipts or sufficient stock. **When calculated after scheduling** Active if there are planned receipts or sufficient stock, or if material can be replenished in time. Even if planned receipt would be too late, this check box is active. If "Material OK" is **not active**, in **APS-list > right-click** information on shortage can be displayed. This report shows which production receipts or purchases are too late and to which date we can order materials. Sub-assemblies for storage related items in the Work order are considered. Links between Work orders are considered. it is possible to link a WO that produces a sub-assembly that is needed for another WO. This link is like a reservation, meaning that the WO of the sub-assembly serves the WO that it is linked to. Dependent Work Orders that have a "linked dependency" have a higher priority than a "normal" WO that just delivers other Work orders. *Window fert_struktur_browse.psr* *Window fert_ftpos_edit.psr*

© 2026 Boyum IT Solutions A/S

	ATTENTION: The material calculation is only performed for the selected Work Orders. Not calculated entries keep the current state for the "Material OK" value and will not be refreshed. **IMPORTANT**: If no Breakdown method is defined in the Item Master data, this field may display incorrect information, which results in incorrect APS calculation! **LIMITATION on Storage-related items:** When an item is defined as "Storage related", APS calculation with the "Material OK" setting ignores work orders that are manually linked to the main assembly and only checks the inventory. For Order-related items the system checks assemblies. This is why Material OK is set for "Order related" items and not set for "Storage related" ones.
Material on stock	Flagged if the required material is on stock and could be withdrawn for the work order. Material is allocated following the order of the APS list. Planned receipts from purchase or production are not taken into account. **IMPORTANT**: If no Breakdown method is defined in the Item Master data, this field may display incorrect information, which results in incorrect APS calculation!
Too late	Flagged if stock is not sufficient or if there is no receipt in due time. This check is only performed, if "material control after scheduling" is activated. ***See*** APS planning types.
Last calculation	Type of last calculation. The ID of the last calculation for this work order is displayed. (forward, backwards, etc.) If the work order was not calculated at last calculation due to settings, "fixed" will be entered there. ***see*** APS - Calculation types.
Priority	Priority of the work order. ***see*** Priorities.
Quantity	Quantity to be produced.
I-Version	Item version.

© 2026 Boyum IT Solutions A/S

Print date	Print date.
Warehouse	Assembly warehouse = Planned warehouse for posting in the assembly.
Material warehouse	Material warehouse: the warehouse where the first BoM item is charged off.
Calculation sorting	Display sorting based on the order of calculations. **INFO:** When calculating the orders (in a forward calculation scenario) Beas may change the sequence for calculation (e.g. when a WO is dependent of another WO). After the calculation, this displays the order based on when the calculations were performed.
Original sorting	Display the original sorting - that is the sorting before the calculation started. Beas changes back to this order after the calculation.

Insert of additional fields in the APS list YouTube

8.10.2.2.1 Scheduling

Functions in upper ribbon:

Button	Meaning
Gantt	Open the Gantt view, display all work orders, for which the column "OK"- was checked.
Resources	Open a selection window, which are considered at the Planning. ***See*** Notes APS - Planning - Resources
Filter	Open filter settings (priority, document number, start-/delivery date, project etc)
Mark	Multiple entries can be marked by using the multiple marking function. These selected entries can be activated / deactivated for the calculation or other collective actions via the button "**Mark**" (Check mark in column "OK" will / will not be set)

© 2026 Boyum IT Solutions A/S

Button	Meaning
	The selected work order is marked (In the first column of the production list a check mark is set (OK).
Sorting edit	Active: you may sort the work orders by drag and drop. It is possible to select multiple entries and to move the highlighted area. When the mouse cursor points on the icon of the list, the cursor changes to a up/down arrow to point that you can move the entry with drag and drop up or down. To do so, keep the Ctrl key pressed and use the left mouse button to select multiple entries. To select a range, click on the first entry, hold the Shift key and click the last entry with the left button.
Sorting save	Saves the current sorting and exits the "Sorting edit" mode. **Explanation on sorting:** If 2 production orders start simultaneously and both require the same resources, the first production order receives the free resource first and the second can only be scheduled afterwards. The sequence therefore determines which production order receives the free resources first.
Calculate	Starts the scheduling of all marked work orders.

Field descriptions

Field	Description
Calculation	Shows the current calculation type. The orange reference arrow opens the setting APS Calculation types .
View	Current view (default) The orange reference arrow opens the settings of planning view.
Sorting	Select from different sortings. ***see*** APS edit planning.
Collective action	Set check mark, to perform the action selected in lower field for all marked work orders.

© 2026 Boyum IT Solutions A/S

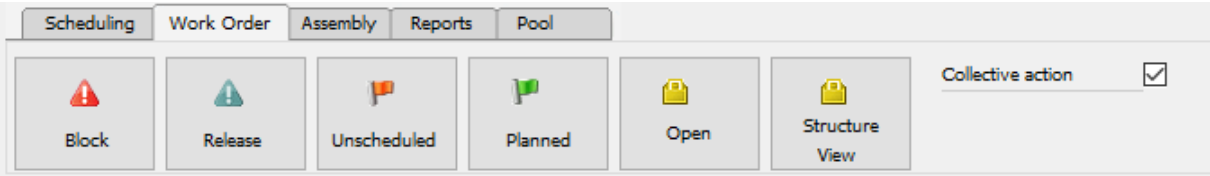
Field	Description
Delivery date	Select delivery date, with click on the red/black icon the change is applied to all marked work orders.
Start date	Select start date, with click on the red/black icon the change is applied to all marked work orders.
Production type	Select production type, with click on the red/black icon the change is applied to all marked work orders.

Right-click functions:

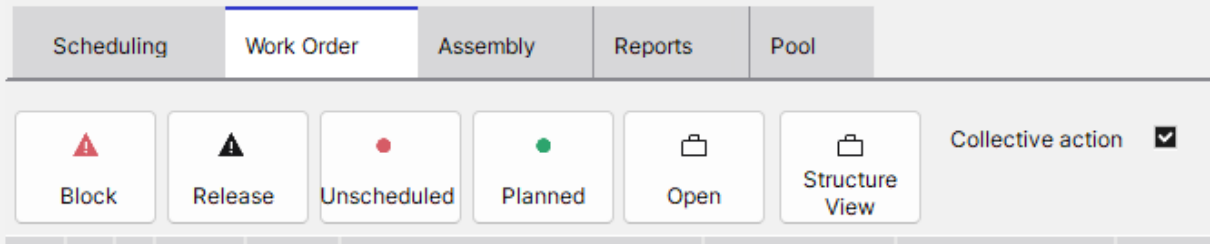
Function	Description
Open	Open selected order.
View Update	Update the scheduling view.

8.10.2.2.2 Work order

In this tab you can manage work order capacity planning.



Boyum Style top bar design:



Work order tab

Button	Meaning
Block	A blocked work order is not dispatched, it has no calculated start or end date, and no times are reserved. You cannot select the work order via FDC or posting windows.
Release	Work order is released for planning.

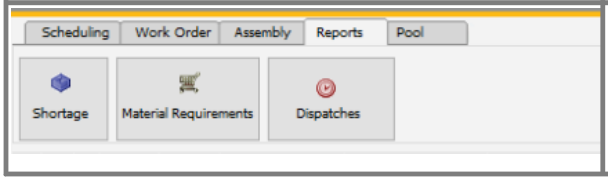
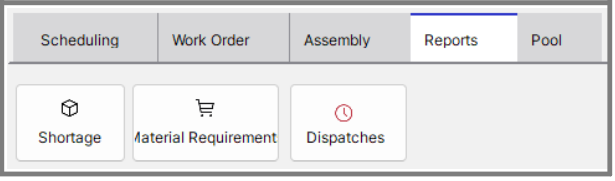
© 2026 Boyum IT Solutions A/S

Block scheduling	Set selected scheduling scenario(s) to blocked.
Release scheduling	Set selected scheduling scenario(s) to is released.
Unscheduled	Set all marked work orders to unplanned.
Planned	Set all marked work orders to planned. More detailed settings: Calculation types: e.g."do not reschedule planned work orders".
Open	Open the selected work order.
Structure view	Open the structure view for the selected work order.

Field	Meaning
Collective action	Perform the selected action for all marked work orders.

8.10.2.2.3 Reports

Under the Reports tab you can handle 3 main attributes of the selected work order:

Traditional style	Boyum Style
	

Window fert_aps_browse.psr

Reports tab buttons

Button	Meaning
Shortage	Opens a list of shortages for the selected work order. ***See*** Shortage
Material requirements	Opens the material requirement list for the selected work order. ***See*** Material requirements
Dispatches	Shows all dispatches of all resources for the selected work orders. Filter works by work orders, not by assemblies. ***Example***: Work order 5 Assembly 10 – Resource 1001 Assembly 20 – Resource 1002

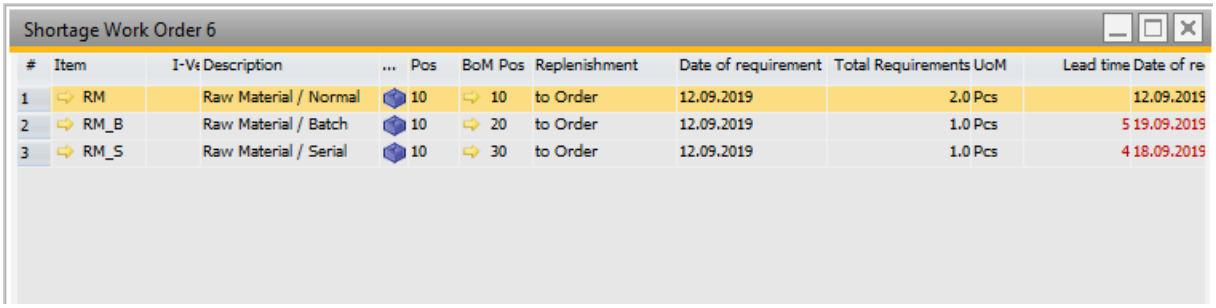
© 2026 Boyum IT Solutions A/S

	If now, at work order 5, assembly 10 is selected, all dispatches for resource 1001 and resource 1002 are displayed. ***See*** dispatches

8.10.2.2.3.1 APS shortage

By clicking on the **Shortage** button under **APS Standard > Reports tab**, the Shortage Work Order XY opens, displaying a list of calculated shortages for the current production WO position.
All rules of the last calculation are considered, e.g. in which sequence the work orders have to be produced.

Beas calculates shortages in a work order only if Material calculation is activated in the used calculation type, and displays result from last calculation. ***See*** APS Calculation Types



Window fert_aps_browse.psr

Columns to be displayed are configurable in Window Settings within the right-click menu.

Columns description

Field	Meaning
Item	Item number
I-Version	Item version according the BoM position
Description	Item description according to the BoM position
Drawing number	Drawing number according to the BoM position
Image (...)	Image according to the BoM
Pos	Work order position
BOM-Pos	BoM position (Position Text)
Internal Pos	Internal BoM – Position ID

© 2026 Boyum IT Solutions A/S

Replenishment	Pegging covered
Requirement date	Requirement date (Delivery date - Lead time)
Total requirement	Total requirement for this Bill of materials position at time of calculation. - booked quantity ***Example***: Position needs 10 Pcs. Currently 6 booked. The rest = 4 Pcs 3 Pcs reserved. In this case you will see 4 Pcs in this column.
Not Available	The quantity for which no reservations exists and no purchase orders or work orders are temporarily linked.
EH	Unit of measure (Inventory UoM)
Lead time	Lead time according to item master
Date of receipt	Next receipt date that the BoM position was assigned to according to the calculation rule (usually the latest possible)
Purchase order number	Assigned purchase order which has been assigned to the BOM position in the last calculation.
Purchased quantity	Assigned quantity of this purchase order in the last calculation
Confirmed delivery	Delivery time: Confirmed delivery (Column u_beas_delconfirm)
Purchase order release	Purchase order: Released?
Purchase order I-Version	Item version in the purchase order
Customer reference number	Customer reference number from the purchase order
On stock	Current warehouse stock without external stock (current stock situation without locked warehouses). Note: The current stock situation should not be the same as at calculation time.
Inventory extenral	Current warehouse stock on external warehouses
Purchase order	Total purchase quantity
Production	Total requirement for all work orders
Reserved	Reserved quantity for this WO position (current reserved)
Total reserved	Total reserved quantity (current reserved) without Reservation for this Bill of Material position

© 2026 Boyum IT Solutions A/S

Invent.History: Clicking on this button displays the relevant information on stock-related figures, reservation, goods issue for production, goods receipt from PO and production, inflow and outflow figures. The lower list section displays the MRP run results with the latest calculation on the top. ***See*** Inventory History.

8.10.2.2.4 Multiple selection

The APS-view supports bulk actions like multiple selections.

Bulk actions as well as the Gannt view always consider all entries in which the "OK" column has been activated. The following options are available for selecting multiple orders at once:

Select / deselect all entries:
Right-click on title heading "OK". With "select all", all entries are selected, while by indicating "no", all entries are deselected.

Select an entry:
By double-clicking on an entry, all other entries will be automatically deselected and the selected item is highlighted.

Choose more entries:
To select other entries, just click the OK field.

Multiple selection / deselection:
With the help of the multiple selection feature multiple entries can be highlighted and selected or deselected.

Range selection:
Choose the first entry, press the Shift key, select the last entry: Now the entire area is selected.

Single selection:
Ctrl + click additional items. These are added to the previous selection.

Activate the selected range only:
After highlighting, double-click the last selected entry. Now the selected entries can be activated (OK on) and all other entries disabled.

© 2026 Boyum IT Solutions A/S

Additionally, activate the selected area:
After highlighting, right-click and select highlighted entries. All selected entries are enabled (OK on). The already enabled items are not changed.

Disable the selected area:
After highlighting right-click and deselect the marked entries. All selected entries are disabled (OK off). The already enabled items are not changed.

back to Planning view

8.10.3 Graphic View

You can access the graphical view via **Production > Capacity Planning > APS > View > Gantt button** or
Production Structure – Right-click > Graphical View

Parallel Operations and Overlapping
Structure
Gantt Display
Gantt Display 2021.03
Compress
Timescale
Group Function
Recalculation
Move
Resource-optimized Detailed Planning
Resource Utilization
Alternative Resources
Show All
Data Structure

Beas uses the Gantt system from the firm Netronic (R) for visualization.

License is required for the graphic view. This is station-related and has to be released separately in the license administration.

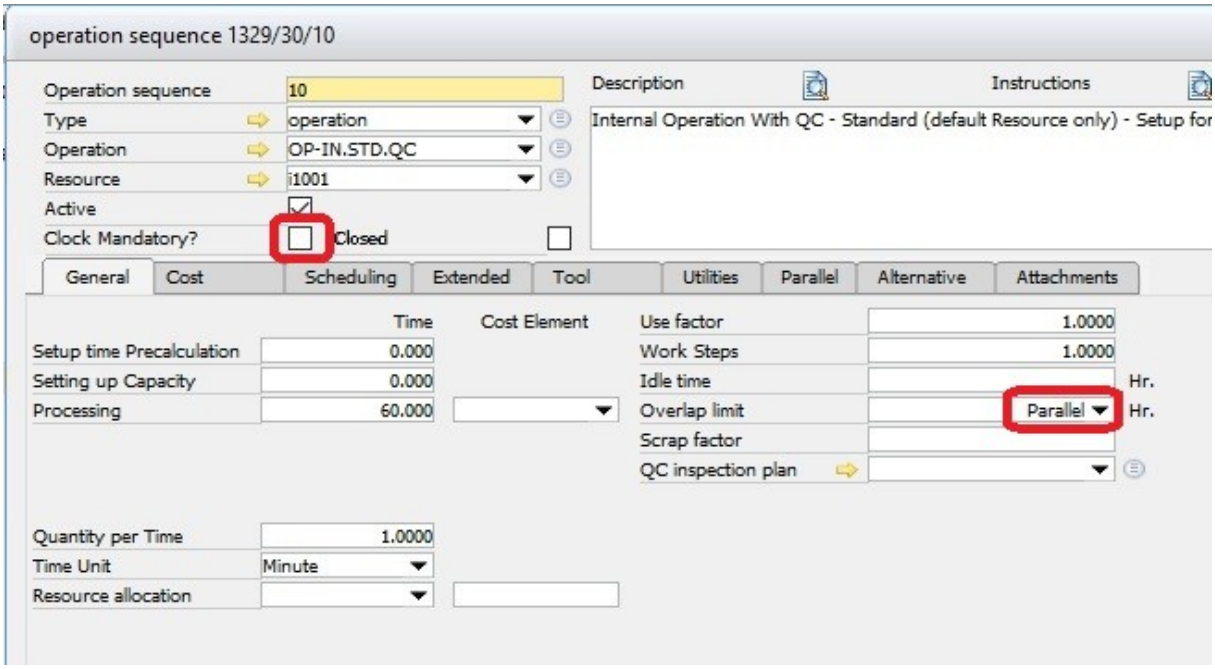
The view depends on the selected planning method.

© 2026 Boyum IT Solutions A/S

8.10.3.1 Parallel Operations and Overlapping

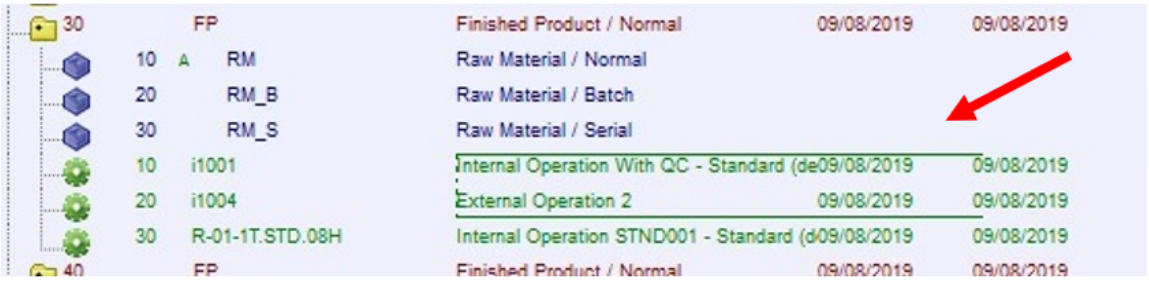
By using overlap settings, you can define the delay for the subsequent work sequence or define to start it in parallel.
Unlike parallel resources, the subsequent work sequence can be moved freely.

You can define the overlap limit in **Routing position > Overlap limit**.
Choose "Parallel", "No" or insert the number of hours/minutes manually.
If this is defined in Position 10, the next position will be parallel.
This means: "Clocking mandatory" must be disabled, because you can start with Position 20 before closing Position 10.



Window fert_arbplanos_edit.psr

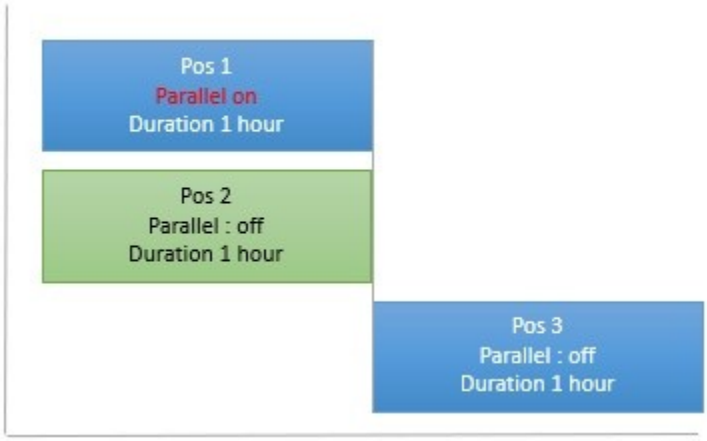
In Item Structure view you can see parallel / overlap limit information in this way:
In this example in Position 10 the "Overlap limit" is defined:



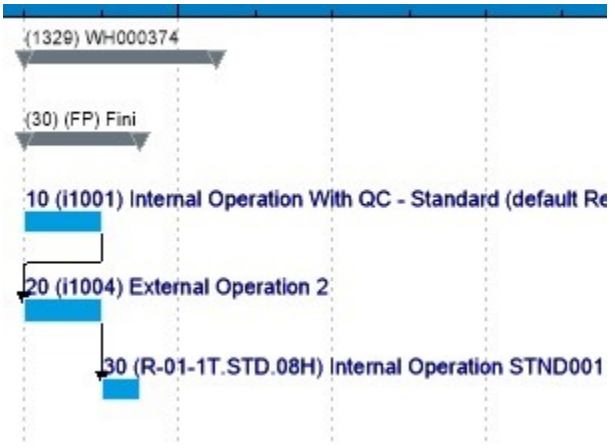
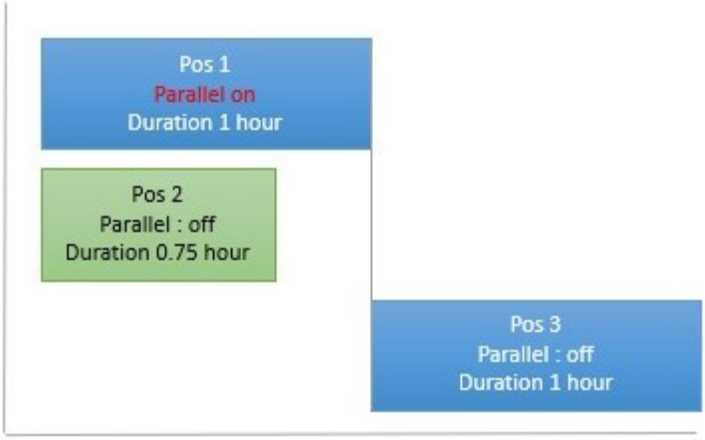
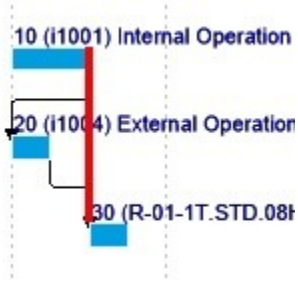
© 2026 Boyum IT Solutions A/S

Note:

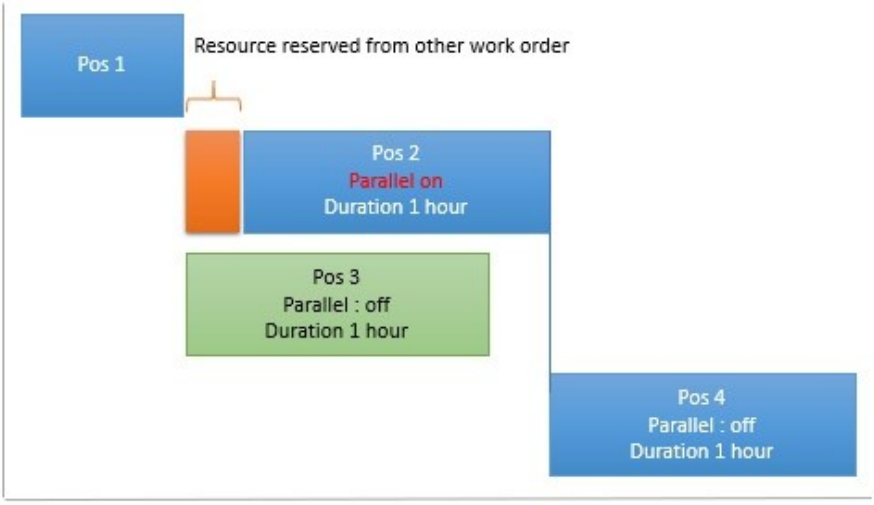
Overlap calculation runs correctly only with forward calculation.

Value	Meaning
0	No overlap.
Parallel	Next Routing position will have same or next possible start date Forward calculation The earliest start date of the following operation can be the same as the first one or the next possible start. The next possible start may also be earlier than the one of the previous operation. ***Example 1 :*** Pos 1 is defined as parallel, so Pos 2 can start parallel to Pos 1 

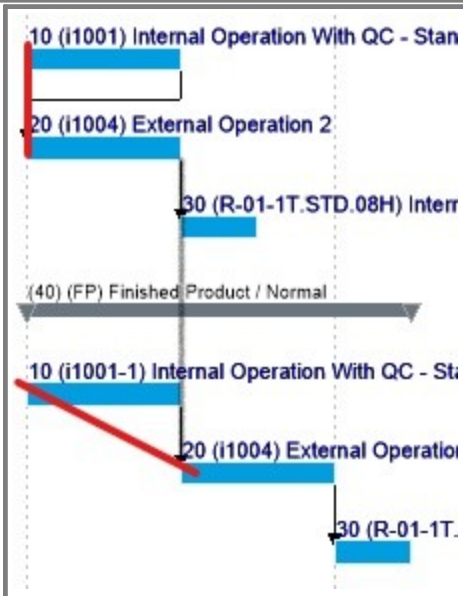
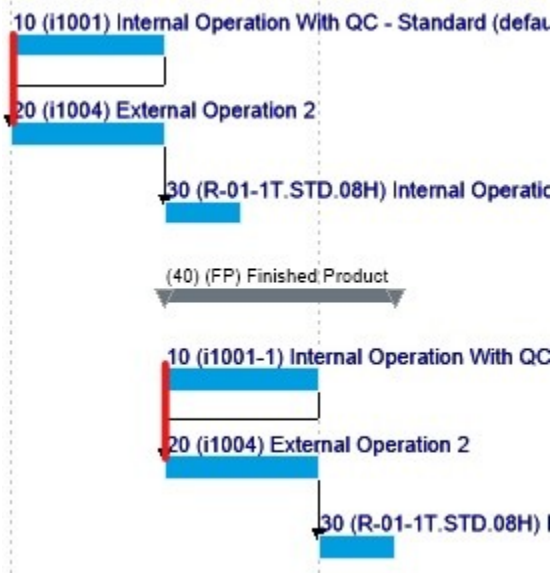
© 2026 Boyum IT Solutions A/S

Value	Meaning
	View in Beas  Start of 3. routing position is after the end of the latest parallel routing position. ***Example 2***: Pos 2 needs less time than Pos 1.  View in Beas  Start of next routing position is always after the end of the latest parallel routing position.

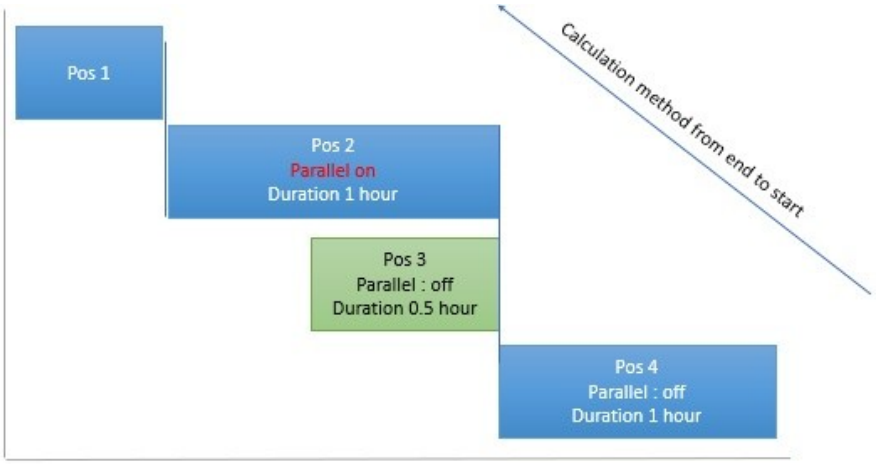
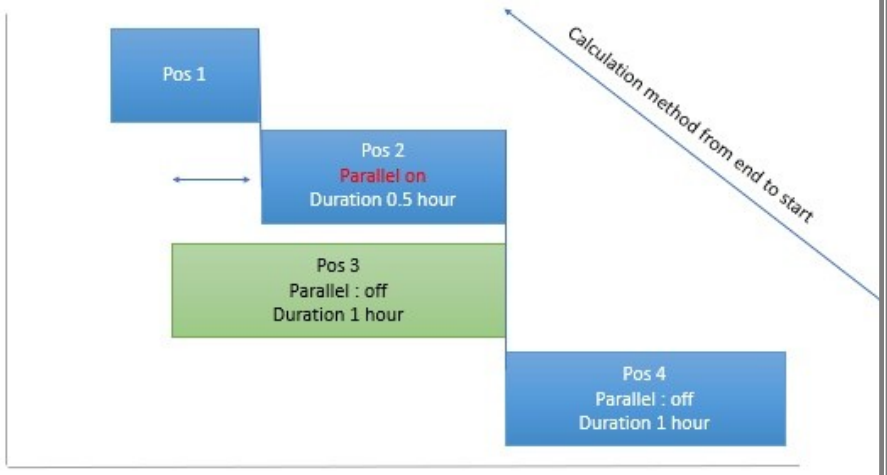
© 2026 Boyum IT Solutions A/S

Value	Meaning
	Example 3: *Scenario:* Position 3 is parallel to Position 2, but after Position1 finishes, resource for Pos 2 is not available. For example Resource is reserved by another work order. If the resource is not available immediately, the routing position starts at the next available time. In this example, the position 3 can start **BEFORE** the first position:  ***Example 4:*** Scenario: 2 work order positions. Both WOs have defined the 2. operation as parallel. Start date is same. First operation has different resource, but the second parallel operation has same resource for both WOs. Explanation: The parallel resource uses the start date, on which the resource is free. For the first WO this is the time when operation 1 starts. In the second work order position you see that the start date of second operation does not start together with the first operation. The reason is that WO 1 already occupies the resource. So the second operation of WO can only start after the operation 2 of WO 1 stopped. In that case the the second operation does not start parallel but delayed:

© 2026 Boyum IT Solutions A/S

Value	Meaning
	 You can set parallel-defined operations to always run in parallel in the Configuration wizard. Result with setting "Overlap limit = fix" Start date of Pos 40 on Resource i1001-1 start later, because the next resource i1004 is not available before.  See APS fix parallel routing positions Backward Calculation

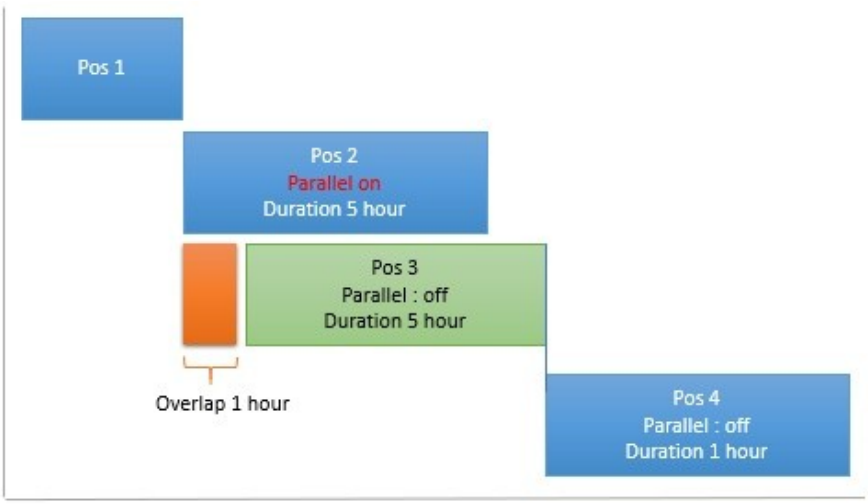
© 2026 Boyum IT Solutions A/S

Value	Meaning
	The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration. Parallel resource: The system calculates the following:  If duration of Pos 2 is less than that of Pos 3, then Pos 1 ends with the start of Pos 2.  In this case, the system is working different from forward calculation. If you work with backward calculation, the first parallel position must have the longest duration. Differences between parallel resource and parallel operation <u>Parallel resource:</u> - is always parallel - 100 % - Parallel resource have always same start / end time - Use Parallel resource, if you don't need this resource 100%

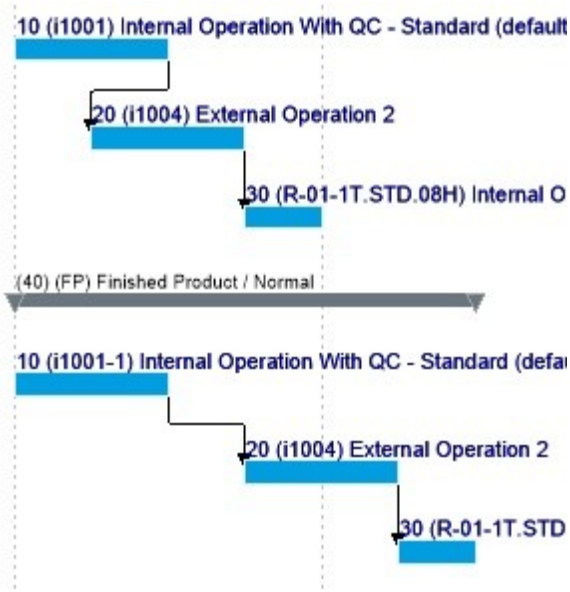
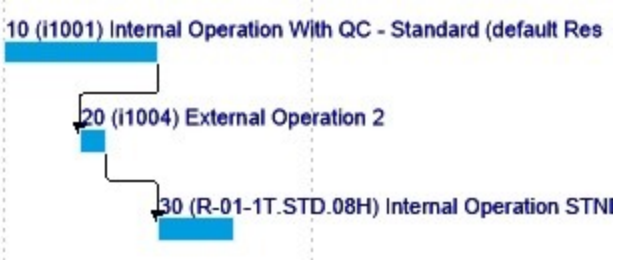
© 2026 Boyum IT Solutions A/S

Value	Meaning
	(Example: A worker is the "parallel resource", but is working on 4 machines in parallel. In this case he must invest only 25% for his time for this operation) Parallel Operation: - is not always parallel. Only if the resource of parallel operation is available - can have different work time - can work with resource optimization - can have own parallel resource, tools and so on
> 0 Overlapping	Overlap of the following routing position or assembly if it is the last routing position. Forward Calculation The Overlap time define, when the next operation can be started. The time, which you define, is the delay in hours/minutes, until the next operation starts. The defined time is the earliest time. **Example:** 2 hours means, the next operation can start - 2 hours after start current operation or after end of this current operation (if the current operation is less than 2 hours) - if resource of next operation is not available after 2 hours, then at the time, when the resource is available. **Example:** In this scenario the start date of the third routing position is the real start date of the second routing position + defined overlapping time in hours, here 1 hour.

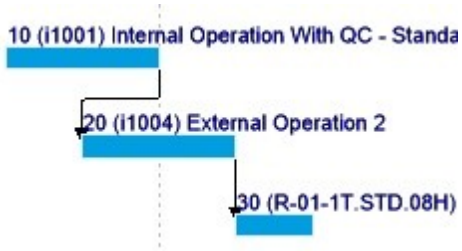
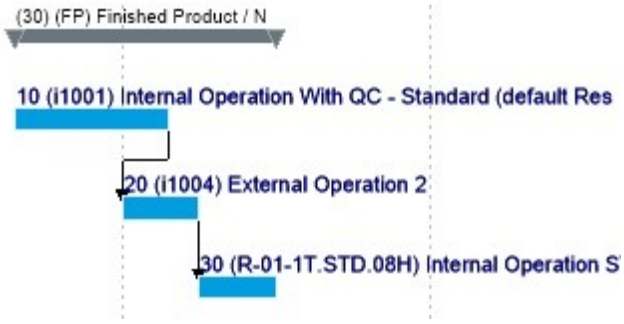
© 2026 Boyum IT Solutions A/S

Value	Meaning
	 An overlap is specified in hours – based on a 24-hour day. The specified overlap always applies to the following routing position. The overlap time is not bound to a resource calendar. This is purely hour-based time excluding time reservations or other factors. The overlap time begins AFTER the transit time. The next routing position cannot possess a transfer time, otherwise it will be appended to the transfer time. ***Example:*** Scenario: 2 Work orders, same routing plan. In first operation different resources. Overlap limit = 0.5 hours First work order: Position 20 start 0.5 hours after start of position 10 Second work order: Position 20 start later, because the time is reserved from first work order

© 2026 Boyum IT Solutions A/S

Value	Meaning
	 If you want, that the overlap have always exact the same overlap time, a setting is available. ***See*** Configuration wizard ***Example:*** Scenario: Work time of second work order position is less than the work time of the first operation. In the first operation, overlap time is defined:  In this case you're ready with second routing position before you're ready with first routing position. But you can start with third routing position only, if all parallel / overlapped routing positions are done. In this case after end of Routing position 10. Backward calculation

© 2026 Boyum IT Solutions A/S

Value	Meaning
	In a simple example the result of backward calculation is same as forward calculation Example: Work time 1 hour, overlap 0.5 hour in first operation  But is the duration of second operation is not same as first operation, then the result is different to forward calculation: The system calculate backward: First 30, then 20 - from 20 the overlap is calculated (Start time from Operation 20 + Overlap time from Operation 10 = End time from Operation 10.  Alternative for backward calculation is "forward late as possible" Note: The backward calculation cannot calculate the correct start date. It is only capable of calculating the duration.

Note:

The last operation corresponds to the last "reportable operation".

If an overlap is also configured in the last operation, Beas does not recognize this as the last operation.

© 2026 Boyum IT Solutions A/S

However, the automatic assembly receipt or adjustment of the backflushed material depends on this.

Overlapping using assemblies

Assemblies can also overlap in an order-related structure.

Example:

```
          |- Main assembly -|
|--- Subassembly -|
```

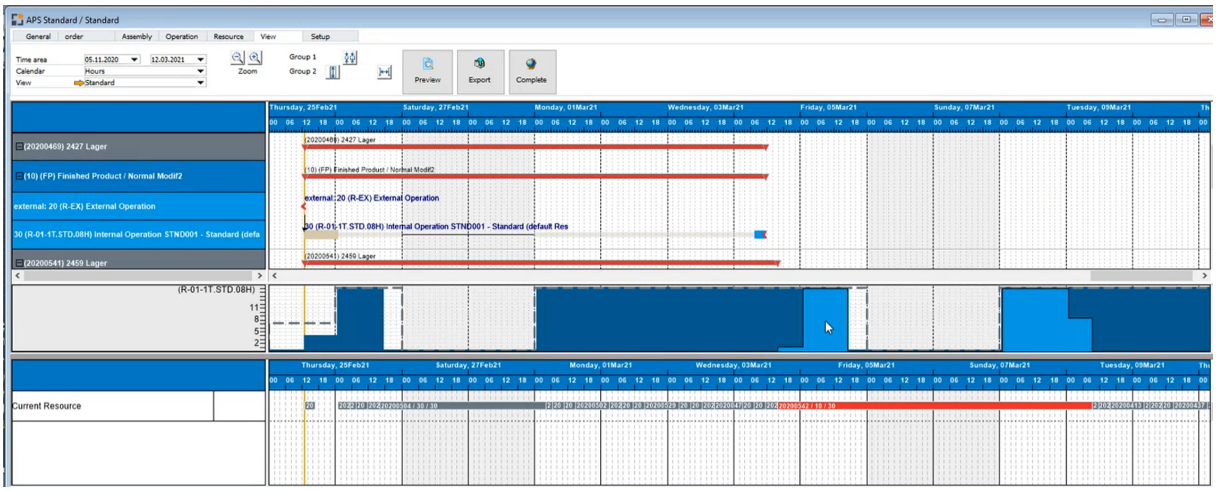
Start date of the main group is normally the end date of the last routing position of the subassembly. If this last routing position has an overlap, this is also considered.

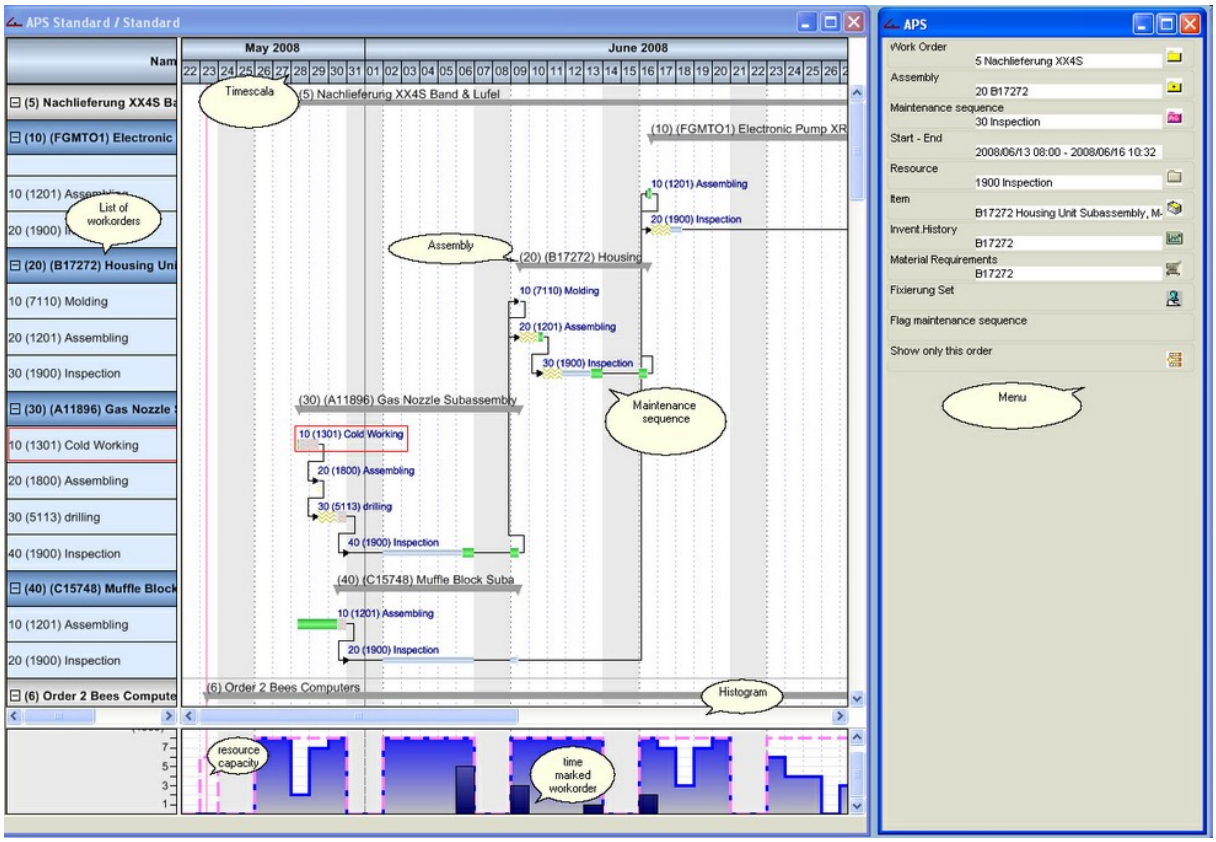
Important: If an overlap is entered in the last routing position, it is no longer recognized as the "last routing position" in the backflushed posting transactions.

8.10.3.2 Structure

This chapter details the structural elements of the graphic view of the APS calculation result.

You can switch to the **"Boyum new Style" view** in the View settings.





Structure in detail

Description	The groupings (production order / resource) and work sequences are described here.
Time/date area	Date / time line with the following options: • Left-click, hold and move left/right: The time line is compressed or expanded. • Right-click on time line: The right-hand menu lists options for the time line, e.g. area to be displayed, time line type (day/hour/month, etc.)
Gantt	The work sequences and totals bars (groupings) are displayed here **The following functions are available here:** • Left-click on an empty area: The menu lists all relevant functions such as e.g. calculation functions and display options including print and export options. • Left-click on a work sequence: The menu lists all relevant functions for the work sequence. You can access further information and also calculation functions or alternative resources.

© 2026 Boyum IT Solutions A/S

Description	The groupings (production order / resource) and work sequences are described here.
	• Right-click on a position: The utilization of the resource stored in the operation is displayed in the histogram area • Left-click on a work sequence, hold and move: This moves the work sequence along the time line and you can then instantly fix and schedule it depending on your configuration. • Selection of multiple positions (left-click and drag to form a rectangle or select individual work sequences using Ctrl+key+left mouse button): Group functions are displayed in the right menu window. For more, ***see*** Group functions.
Histogram	The resource utilization's are displayed in this area when you right-click on a position. If you click the histogram, all work orders that have a time reservation for this resource are displayed in the menu. The period and / or display in Gantt chart do not matter.

8.10.3.3 Gantt Display

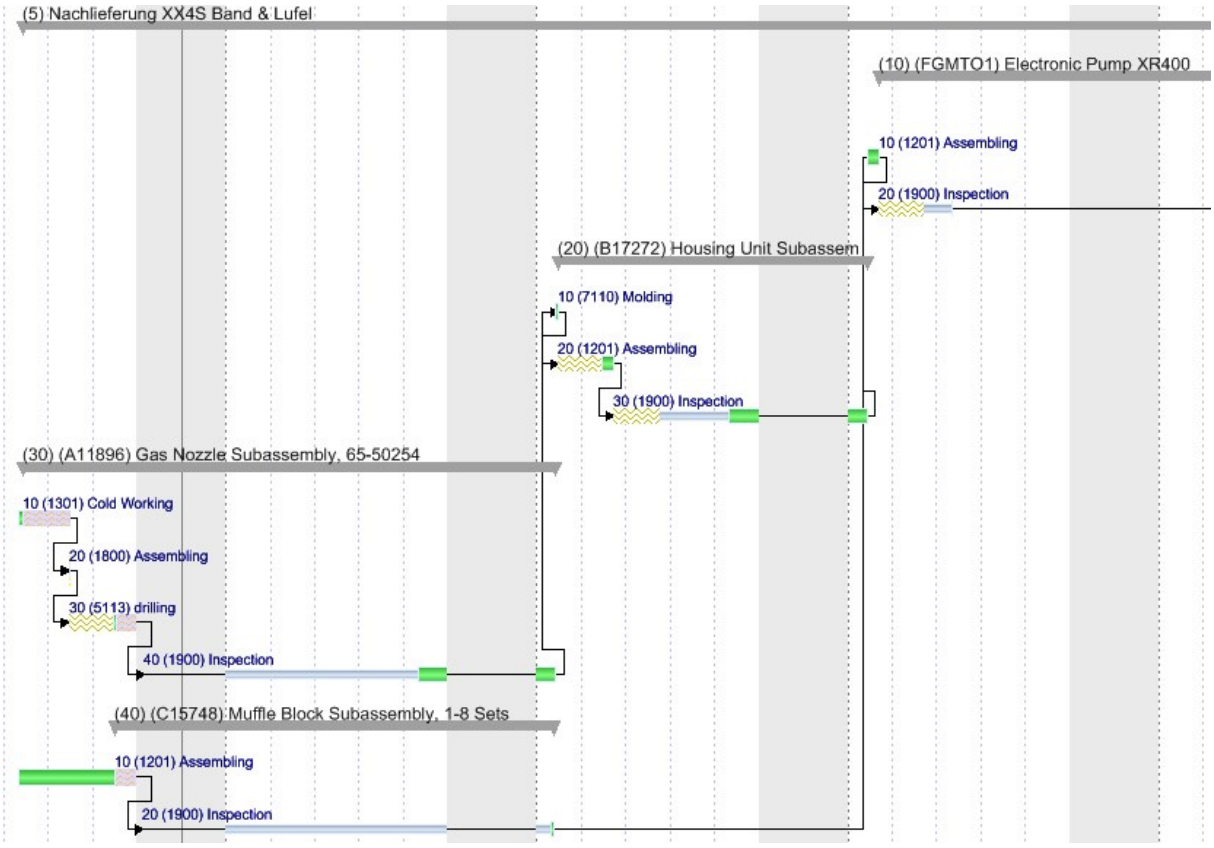
A production order is displayed in the graphical view from left to right.
You can switch to the **"Boyum new Style" view** in the View settings.

IMPORTANT: To use the Gantt graphical display for APS scheduling, you must also install the 32-bit version of Beas Manufacturing, as this third-party provider does not support 64-bit version software products.

The production order receives a totals bar (first gray bar at the top edge).
The individual assemblies in turn have their own bar (bar below this).

The individual work sequences are linked together by an arrow and represent the processing sequence in the time chart.
The delivery date is indicated by a red dot.

© 2026 Boyum IT Solutions A/S



Example: Throughput of a production order

Structure of a work sequence

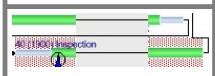
The timeline of a work sequence is subdivided into three parts:

1. Transfer time, which is stored in days in the resource
2. The job time, based on set-up time and job time x number of units as per work sequence
3. The idle time as per work sequence.

In the graphical view, there are other symbols or color displays that indicate e.g. the status of the production order.

	External operation (orange background).
	Normal operation consisting of transfer time, setup + processing time (green range) and idle time.
	Work sequence currently logged in.
	There has already been a partial login to this work sequence.

© 2026 Boyum IT Solutions A/S

	External operation (orange background).
	Normal work sequence, position has already been printed.
	Parallel resource.
	Resource of type Tool.
	Production order is marked as "Planned".
	Work order is planned by APS.
	Delivery date.
	Delivery date cannot be met.
	Work sequence is fixed to a deadline. This is considered in forward scheduling.
	Marked work sequence. In the event of rescheduling, all production orders in which a work sequence is marked are recalculated.
	Overlapping: The following work sequence was fixed and its start is BEFORE THE END of the previous work sequence. In this case, red shading is applied.

Icon changes:

Green/Red flag: Within/past the delivery date.

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Time cut
	External operation

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Delivery date. When delivery date has passed, the color changes to red.

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Tool resource

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Transit time

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Resource start-end

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Work order
	Idle time

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Parallel

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Resource Start-end
	Finished work order

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Not available material
	Material is available
	End of the operation
	Marker function to perform action on an operation. Enable to fix an operation.

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description
	Fixtime
	Alternative resource

© 2026 Boyum IT Solutions A/S

Icons and colors - OLD style	Description

© 2026 Boyum IT Solutions A/S

8.10.3.4 Gantt Display 2021.03

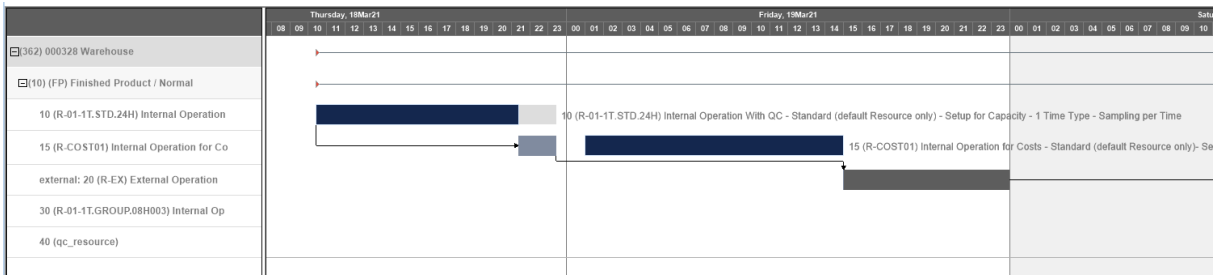
Beas Manufacturing 2021.03 delivers an improved look-n-feel of the Gantt viewer.
If you wish to work with the old variant, you can select it in the APS View settings.

IMPORTANT: To use the Gantt graphical display for APS scheduling, you must also install the 32-bit version of Beas Manufacturing, as this third-party provider does not support 64-bit version software products.

This graphical visualization of the APS results delivers bigger font sizes, bar sizes and objects compared to the old variant, new color codes and enhanced readability.
Entire information (for example of a resource) is at hand without zooming in or out, and space and standard minimum width between each small element are increased.

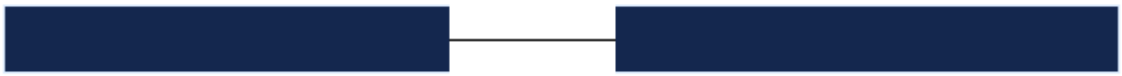
Hierarchy Tree:

Top color: RGB 93, 93, 93 (Dove Grey)
WO level: RGB 221, 221, 221 (Alto)
Routing level: RGB 247, 247, 247 (Off White)
Position level: RGB 255, 255, 255 (white)
Font color: RGB 125, 125, 125 (gray)



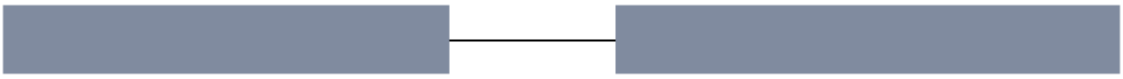
Gantt Colors:

Normal Resource color
RGB(20,39,78)



Transit Time:
RGB(128,139,159)

© 2026 Boyum IT Solutions A/S

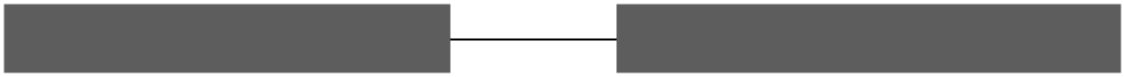


Idle Time:

RGB(221,221,221)

External Order time:

RGB(93,93,93)



Tool Resource:

RGB(52,98,108)

Alternative Resource;

RGB(94,170,168)

Parallel:

RGB(163,210,202)

Icon changes:

Green/Red flag: Within/past the delivery date.

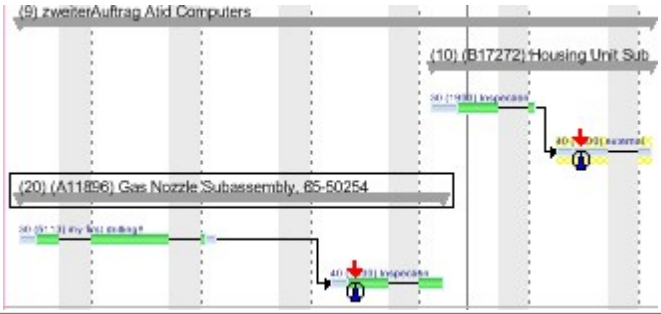
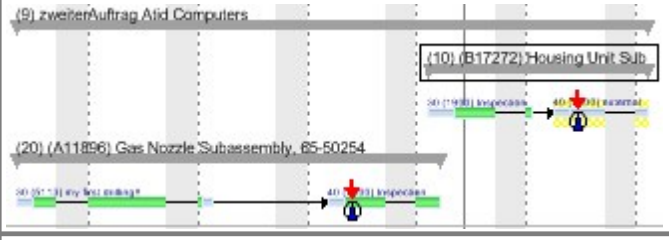
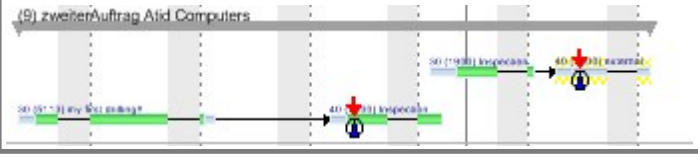
8.10.3.5 Compress

The view can be compressed in several ways:

The functions for closing groups or the "Everything on one line" compression function are included in the menu when you click on a white part of the Gantt area.

Normal view	Each work sequence is displayed on a separate line.

© 2026 Boyum IT Solutions A/S

	
Close group	When you close a group (main group or sub-group) – from the normal view, the individual work sequences are hidden:
Everything on one line	If you select "Everything on one line" in the normal view, the APS tries to display everything on one line. If there are overlaps, the display is optimized: 
Everything on one line Closed	On the display "Everything on one line" - "Closed", the compressed position bar is displayed, not the totals bar: 

© 2026 Boyum IT Solutions A/S

8.10.3.6 Timescale

The timescale is displayed above the view.

The available time range is stored in the planning settings.
You can do this either by specifying the days (today +/- days) or by automatic calculation, depending on the selected positions.

If a position is outside the range, you can click on the (right) side of the table. This timescale is automatically adjusted and the position displayed.

Timescale: Change resolution

The resolution, i.e. the space available for a time unit, can be adjusted as needed.
To do this, click on the timescale and hold. To enlarge the time units drag the mouse to the right, to reduce drag to the left.

Timescale menu
Other functions are available for the timescale.
To access the menu, right-click on the timescale.

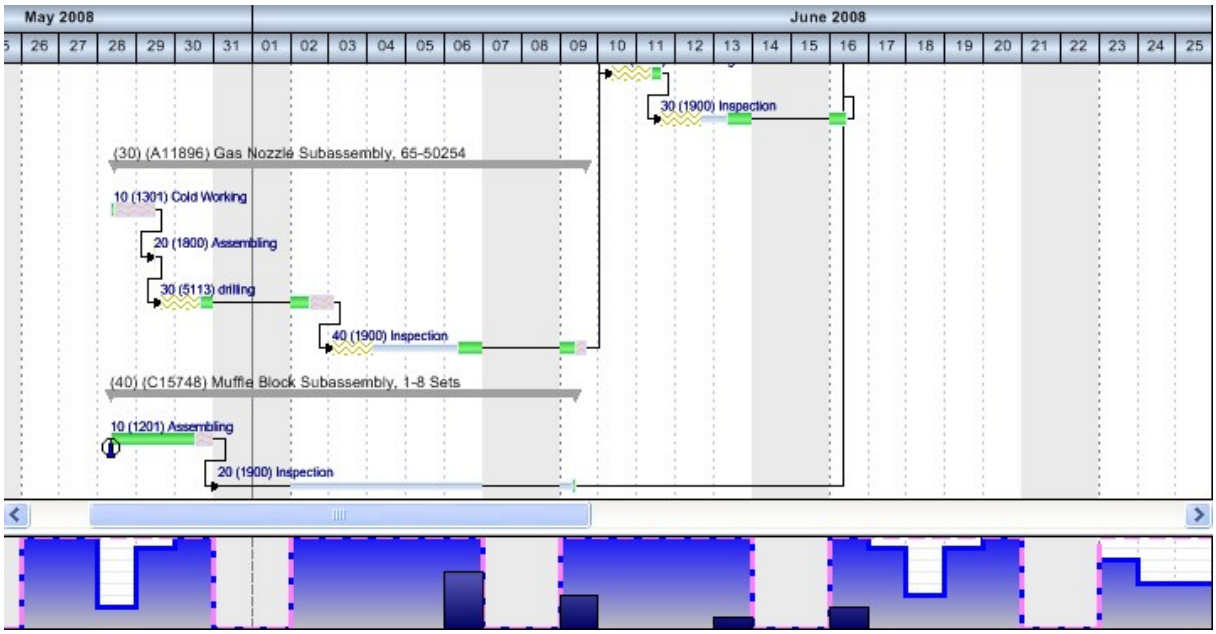
The date range to be displayed can be customized. This only relates to the visualization.
If work orders have been loaded for a specific time range only, there is no speculative loading of work orders outside the range to be displayed.

Different timescales can be selected under Calendar.

Type of timescales

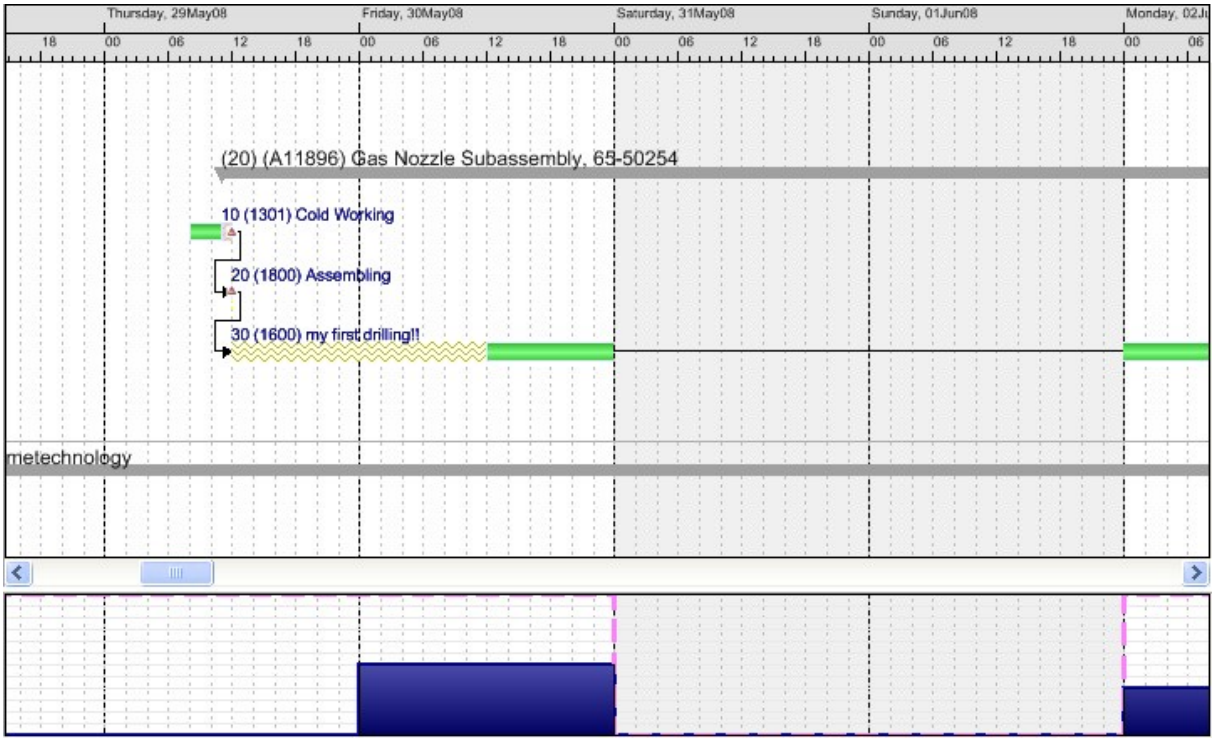
Timescale day:
In the top bar the month + year are displayed; in the bottom bar the day

© 2026 Boyum IT Solutions A/S



Timescale hour:

In the upper area the day is displayed; in the lower area the hours. There is a dash every 24 hours

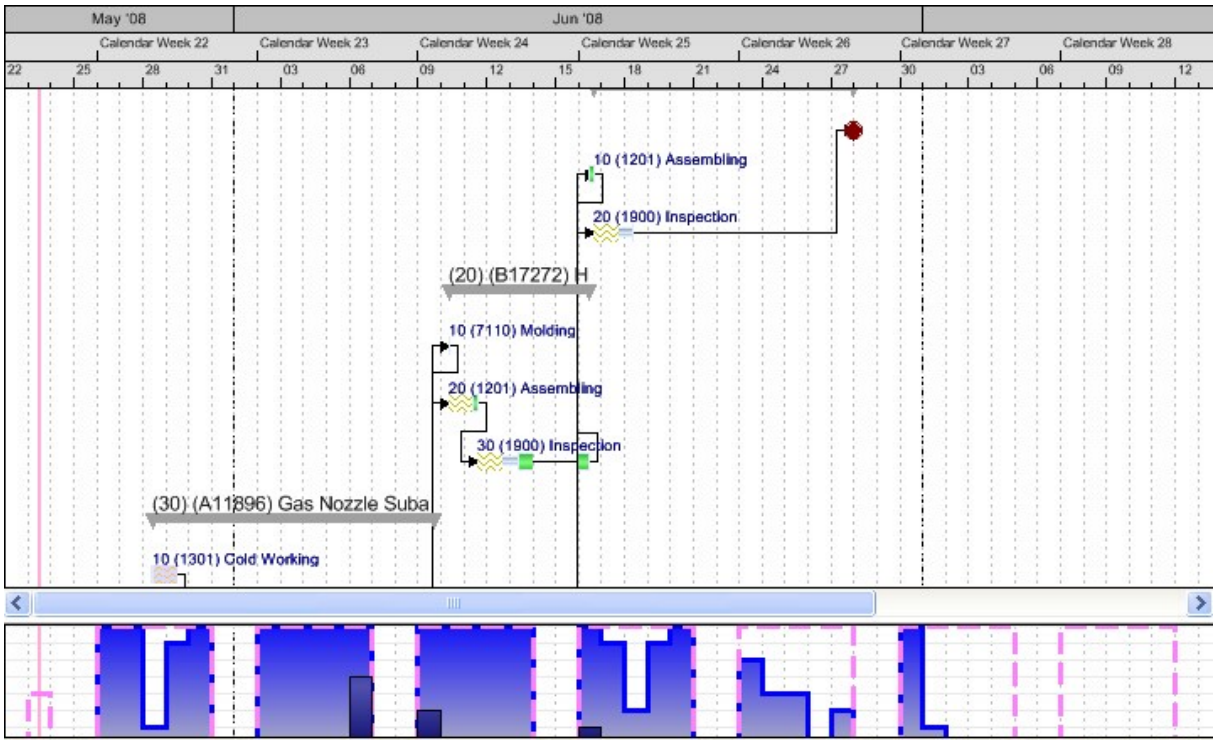


Timescale month

This range is intended for rough planning over several months.

© 2026 Boyum IT Solutions A/S

Top range: Month, with calendar week underneath, and the days underneath that

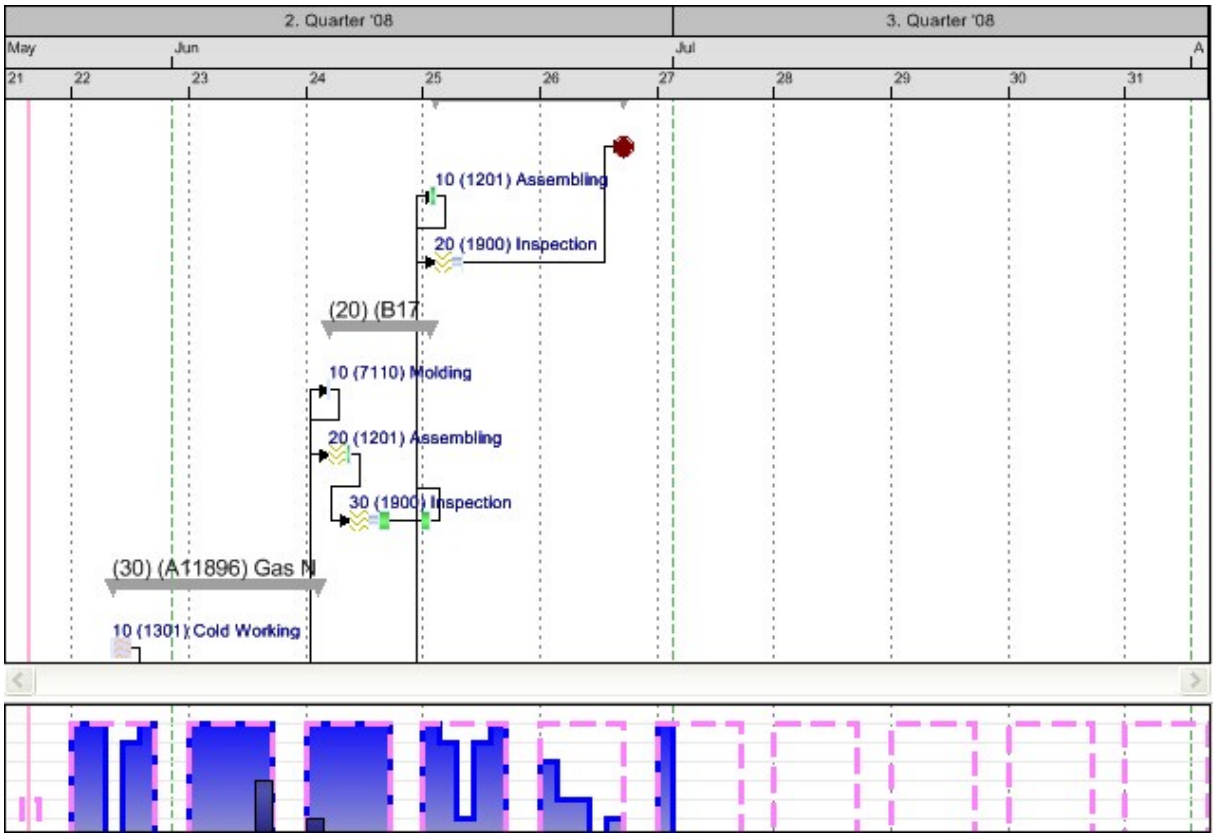


Timescale year

This range is intended for long-term resource planning.

Top bar: Quarter + year, with month underneath, and the calendar week underneath that

© 2026 Boyum IT Solutions A/S



Timescale detailed planning

This special timescale displays a rough plan and a detailed plan simultaneously.

The green range is the detailed planning range, the pink range the rough planning range.

The start of the rough planning range is user-definable. Click on the vertical line between the two ranges and drag.

The resolution can be set separately for each range.

8.10.3.7 Group Function

Multiple positions can be selected simultaneously as follows:

1. Hold down the Ctrl key and click on the positions.
2. Click on the blank Gantt area, hold and drag a rectangle over all positions to be selected.
3. Hold down the Ctrl key and click on the scale (upper timeline): all positions from that day are selected.

If multiple positions have been selected, a special group menu is available.

© 2026 Boyum IT Solutions A/S

Forward scheduling	This is used to re-schedule all positions marked with a red arrow. The first calculation method stored in the plan is always available.
Dispatch by date	This is a detailed planning function and should only be used in the resource view. This arranges the selected (red border) positions in order to the minute, and dispatches and fixes them. ***see*** resource-optimized detailed planning.
Break fixed specification	Any fixed specifications set are removed (blue marking)
Set selection	All selected positions receive a "red" arrow. Re-scheduling of these selected positions is then possible.
Deselect	This removes the red arrow.
Hide all not selected	All positions that are not selected (red border) are removed.

8.10.3.8 Recalculation

If a schedule is to be recalculated, you must proceed as follows:

1. At least one work sequence must be selected.
   A position work sequence is selected if
   a) The position work sequence is moved.
   b) You click on the position work sequence and choose "Select" from the menu.
   b) You select several positions work sequences and choose "Select" from the menu.

2. Click on a white area in the Gantt chart. The menu now includes additional functions,
e.g. the available calculation functions. Now you must click on the selected calculation function, e.g. forward scheduling.

8.10.3.9 Move

Work sequences can be freely moved in the graphical view.
You can configure what happens after the move:

© 2026 Boyum IT Solutions A/S

No action	Work sequence can be moved freely. The position or positions is/are dispatched to new position, but not selected and not booked During re-scheduling, the position may be moved again to a different point.
Mark	After the move, the positions is re-dispatched and highlighted. If scheduling is then performed, all production orders in which the work sequences are marked are recalculated. As there is no fixing, the work sequence may be moved again during re-scheduling.
Selecting and fixing	After the move, the work sequence is specified, marked and immediately dispatched, making the change immediately visible in the utilization display. Resource limits are not considered. The "forward scheduling" method is used for dispatching.
Select, fix at resource limits	After moving, APS searches for the first "time gap", i.e. the work sequence may be shifted to the future if no resources are free. At this point it is then fixed, selected and dispatched forward without further resource limits.
fix, dispatch and bind	The next free time window is sought into which the position can be inserted completely.

The setting is entered under Edit plan - Views (this is then the default setting) or
Right-click on a white part of the graphical view. The menu then includes the setting
"After Movement" available. A change remains active until the window is closed.

Important:
Once moved, the position is calculated or dispatched.
The following work sequences are NOT rescheduled.

For this reason, the moved work sequences are marked with a red arrow (except for the “No action” movement type).
The "Dispatch forward" function or other calculation methods are used to completely re-schedule work sequences selected in this way.

8.10.3.10 Resource-optimized Detailed Planning

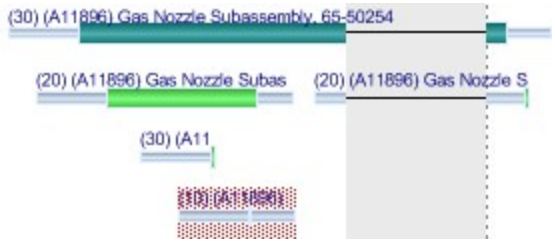
Situation:

A resource (machine) should be utilized 100%.
To achieve this, the work sequences dispatched on it must be lined up after each other seamlessly.
(Setup times are included in the duration of the work sequence).

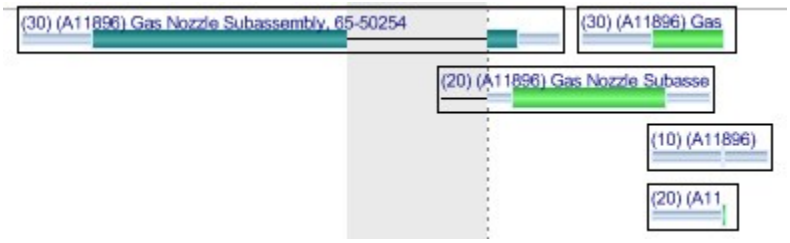
© 2026 Boyum IT Solutions A/S

Concept:

1. In the resource-oriented view, the corresponding machine is selected and displayed.
2. Set move mode to "No Action" (click on a white part of the Gantt area – in the menu under "After moving", click on "No Action".)
3. Move the work sequences into the correct time sequence according to the sequence in which they should be processed. Time/date do not need to be taken into account here.



4. Mark the work sequences (Ctrl + mouse click or click and hold mouse button and drag a rectangular selection). At least more than one work sequence must be affected.
5. Dispatching after deadline: Taking account of the resource limits, the selected work sequence is now dispatched in the order of the previously determined timeline (first work sequence is dispatched first). The work sequences are moved together to optimize resources. The transfer time is not taken into account.



6. Fix work sequences: This fixes and marks the selected work sequences.
7. Click on a white part of the Gantt area and select the required calculation type (e.g. forward scheduling).

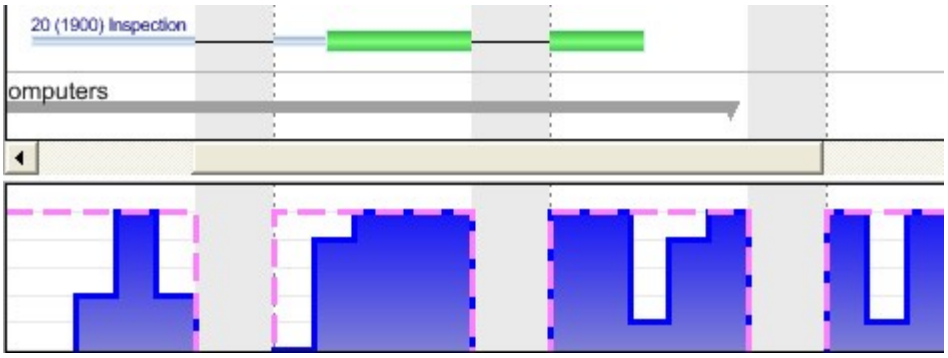
8.10.3.11 Resource Utilization

If you right-click on a work sequence, the resource utilization is displayed in the histogram area.

Dashed line: The planned capacity.

Blue surface: Reserved times.

© 2026 Boyum IT Solutions A/S



This displays not just the reserved times of the production orders displayed, but also those of all production orders currently planned.

The resource utilization view is always one of the visible area and only in the future.
If you move the view left or right, you must update the view by right-clicking on the work sequence.

The utilization view is accurate to the day, e.g. there is no calculation to the minute, the daily planned time is compared with dispatched times.

8.10.3.12 Alternative Resources

For detailed machine planning, it is necessary to determine in an easy way the resource to which a work sequence should be dispatched.

There are different concepts for this:

Multiple machine resources	The easiest and most effective way is to create a resource that maps multiple machines or persons. To do this, you must enter the number of machines in the "Machines/Persons" column in the resource, e.g. 4 if there are 4 machines in this group. **Advantage:** The APS automatically distributes resources between the 4 machines. **Disadvantage:** Detailed planning is not possible in this way (to which machine exactly). However, it should be examined whether this option would be beneficial.
Alternative Resources	Alternative resources will be defined in the operations. It is possible to define item specific alternative resources, or to indicate separate lead time, if these differ from resource to resource. An automatic optimization is also possible.

© 2026 Boyum IT Solutions A/S

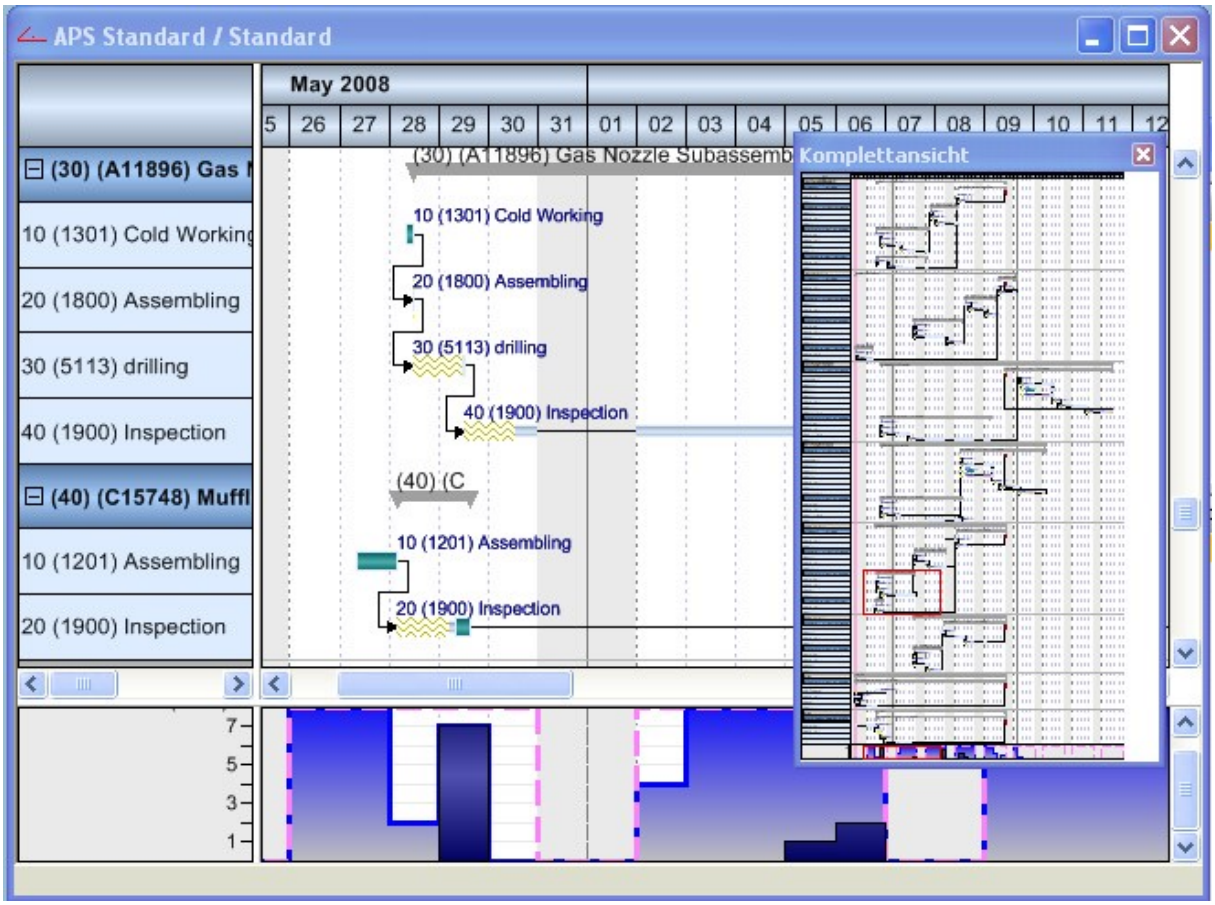
Multiple machine resources	The easiest and most effective way is to create a resource that maps multiple machines or persons. To do this, you must enter the number of machines in the "Machines/Persons" column in the resource, e.g. 4 if there are 4 machines in this group. **Advantage:** The APS automatically distributes resources between the 4 machines. **Disadvantage:** Detailed planning is not possible in this way (to which machine exactly). However, it should be examined whether this option would be beneficial.
	Advantage: You can specify exactly which machine is to be used and which throughput time it has. **Disadvantage:** This entails a great deal of effort and only makes sense in very specific circumstances. For more, ***see*** Alternative resources.
Resource Groups	In Master Data / Resources, a resource group is created and the individual machines are then stored. In the resource group, you must insert a resource type "Group" and store this in turn in the routing sequences, i.e. dispatching is performed to a group, not to a machine/person. You only actually specify which machine processes this work sequence during planning. **Advantage:** Accurate planning is possible at machine/person level. **Disadvantage:** This accurate planning takes up time on the user side and is not always advantageous.

8.10.3.13 Show All

The full view is activated from the main menu (click on a blank area in the GANTT view) – Show all
This opens another window entitled "Full view".

The full GANTT chart is displayed here, including the sections not in the visible area. It is therefore an overview of the entire GANTT chart.

© 2026 Boyum IT Solutions A/S



The visible range is indicated as a red box.

You can use the mouse to move, enlarge and reduce this.

The selected area is always displayed automatically in the full view.

This view is a good utility for navigating in larger GANTT views.

8.10.3.14 Data Structure

This chapter describes the table structure and important commands which can be used to change or adapt APS.

Table Structure

8.10.3.14.1 Table Structure

The graphical view has an internal table with the following structure:

All information can be accessed in the menu definition using `'<parent.xgantt.datafield.[id]>'` .

© 2026 Boyum IT Solutions A/S

<table>
<tr><td>0</td><td>ID</td><td>ID of the work sequence (string).</td></tr>
<tr><td>1</td><td>Start</td><td>Start of the work sequence (start of transit time).</td></tr>
<tr><td>2</td><td>End</td><td>End of work sequence (end of idle time).</td></tr>
<tr><td>3</td><td>Fixstart</td><td>1/0 work sequence specified at start of routing.</td></tr>
<tr><td>4</td><td>routingstart</td><td>Start of processing time (green range).</td></tr>
<tr><td>5</td><td>routingend</td><td>End of processing time.</td></tr>
<tr><td>6</td><td>routingcut</td><td>1/0 deadline exceeded (red shading).</td></tr>
<tr><td>7</td><td>deliverycut</td><td>1/0 delivery deadline exceeded?</td></tr>
<tr><td>8</td><td>time</td><td>Duration.</td></tr>
<tr><td>9</td><td>linenumber</td><td>Consecutive number – sorted by structural layout of the production order.</td></tr>
<tr><td>10</td><td>strutcrcode</td><td>Structural layout (as string information).</td></tr>
<tr><td>11</td><td>sortnumber</td><td>Sorting by structural layout (number).</td></tr>
<tr><td>12</td><td>Doc. no. id</td><td>Document No.</td></tr>
<tr><td>13</td><td>Doc pos</td><td>Doc. Position.</td></tr>
<tr><td>14</td><td>pos_id</td><td>Operation internal position number.</td></tr>
<tr><td>15</td><td>pos2_id</td><td>Position of parallel resources.</td></tr>
<tr><td>16</td><td>resourcetyp</td><td>Resource type
<table>
<tr><td>E</td><td>Parallel resource</td></tr>
<tr><td>W</td><td>Tool</td></tr>
<tr><td>F</td><td>External operation</td></tr>
<tr><td>R</td><td>Position (green range)</td></tr>
<tr><td>L</td><td>Delivery date (red dot)</td></tr>
</table></td></tr>
<tr><td>17</td><td>resource_id</td><td>ID of the resource (can also be a tool).</td></tr>
<tr><td>18</td><td>resourcename</td><td>Name of the resource.</td></tr>
<tr><td>19</td><td>resourcegroup</td><td>Resource group.</td></tr>
<tr><td>20</td><td>orderinfo</td><td>User-definable order labeling.</td></tr>
<tr><td>21</td><td>posinfo</td><td>User-definable assembly labeling.</td></tr>
<tr><td>22</td><td>routinginfo</td><td>User-definable position labeling.</td></tr>
<tr><td>23</td><td>priority</td><td>Priority of the work order.</td></tr>
<tr><td>24</td><td>prjcode</td><td>Project number.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

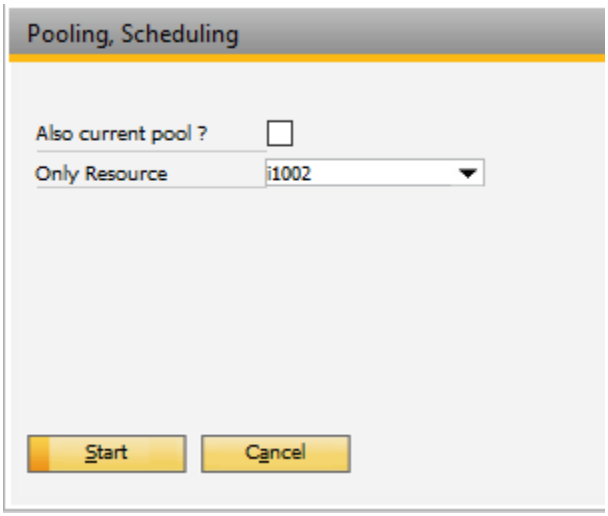
0	ID	ID of the work sequence (string).
25	marker	Position marked Y/N.
26	Status	Work order status new – Newly created print – Printed inwork – Currently logged in work – Partially logged Info: Closed or blocked production orders or work sequences are not displayed, as these are not scheduled and do not require any resources.
27	APS	1/0: Marked as planned.
28	free	Transit Start.
29	free	Transit End.
30	free	Idle Start.
31	free	Idle End.
32		
33		
34		
35	udf1	Material Date.
36	udf2	Material failed.
37	udf3	User-definable field.
38	udf4	User-definable field.
39	lieferdatum	Delivery date.
40	stufe	Wok order position level.
41	sortid	Operation – sorting.
42	pos_text	Operation alphanumeric position number.

8.10.4 Pooling, Scheduling

This batch function defines pools or recalculates all pools.

PATH: Production > Capacity Planning > Pooling, scheduling.

© 2026 Boyum IT Solutions A/S



Window fert_pool_batch.psr

Field	Description
Also current pool?	Should the current pool also be calculated? If **disabled**, all pools except the first one are recalculated. If **enabled**, all pools are recalculated. Make sure that no employee is working operations of the current pool, because the pool list is recalculated and current orders may not be displayed anymore.
Only resource	Select the resource to be considered for pooling.

The calculation can be started with the **Start** button.

An automated calculation can be scheduled, for example to run during the night. For this the *calculate pool* event is available in activity administration.

Also see:

Pool Control

Capacity planning

Priorities

8.10.4.1 Pool Control

Pool control is a good alternative for a scheduling board. This way, manufacturing can be controlled manually without using APS. Based on priorities, time receipts and material stock, the pool control calculates which operations should be performed next on a resource. Using the pool report – accessible through logon/logoff (terminal) – employees can log on or off their operations.

© 2026 Boyum IT Solutions A/S

A pool is the operation queue for a certain resource. You can define the number of work hours which the pool can contain in the resource master data (Resource – Pool limit in hours). This indicates to employees that they must first process the most important work orders.

Priority

Before the positions are sorted in the pools, they are sorted according to priority. The oldest start date has the highest priority. The start date is determined according to the operation, calculated through capacity planning. This information is then aged by the pool days stored in production priority multiplied by the number of days stored in the Configuration wizard – Pooling – Multiplier.

Also see Pooling, Scheduling.

Current pool

The employee always sees the current pool. These are orders that can be started, have the highest priority, and fit into the pool size. Instant orders are always in the current pool. The current pool is pool number 1. After it has been processed, pool 2 is activated as the current pool, etc.

Pool 0

This pool contains all routing positions which cannot yet be reported as the preceding reportable routing position has not yet been finished. As soon as the previous position has been reported, the position automatically moves from pool 0 in the next available pool.

Pool > 0

This includes all positions that can be started but that do not fit in the first pool. Generally, a daily recalculation (Pooling, Scheduling) is required to allow the most important positions to move to the active pool.

Manual changes

Using the Pool Structure Report positions can be moved manually from one pool to another. Manual sorting is also available in the pool structure list.

Also see:

Pooling, Scheduling

Pool Structure Report

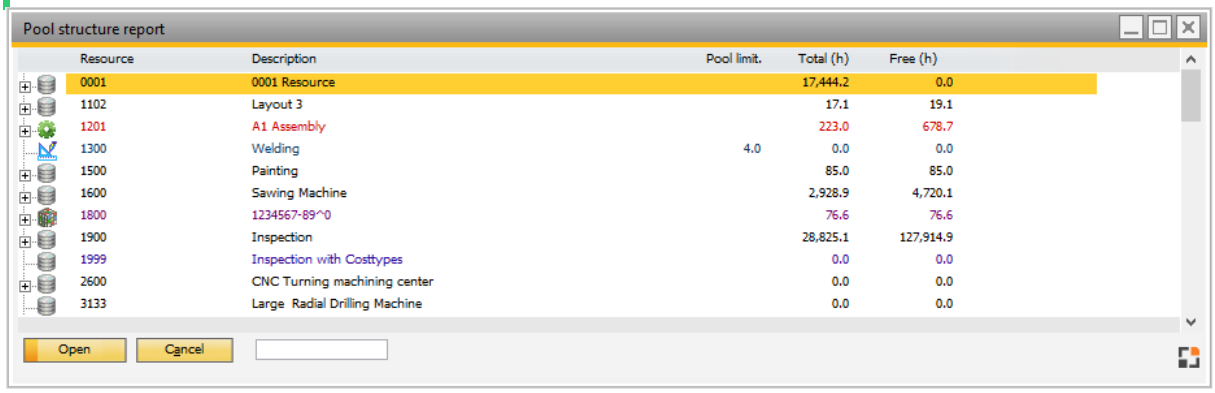
8.10.5 Pool Structure Report

The pool structure list is used for production planning and monitoring. Operation sequences are assigned to pools. Operations then can be moved from one pool to another. In the pool list only the current pool (usually Pool 1) is visible.

© 2026 Boyum IT Solutions A/S

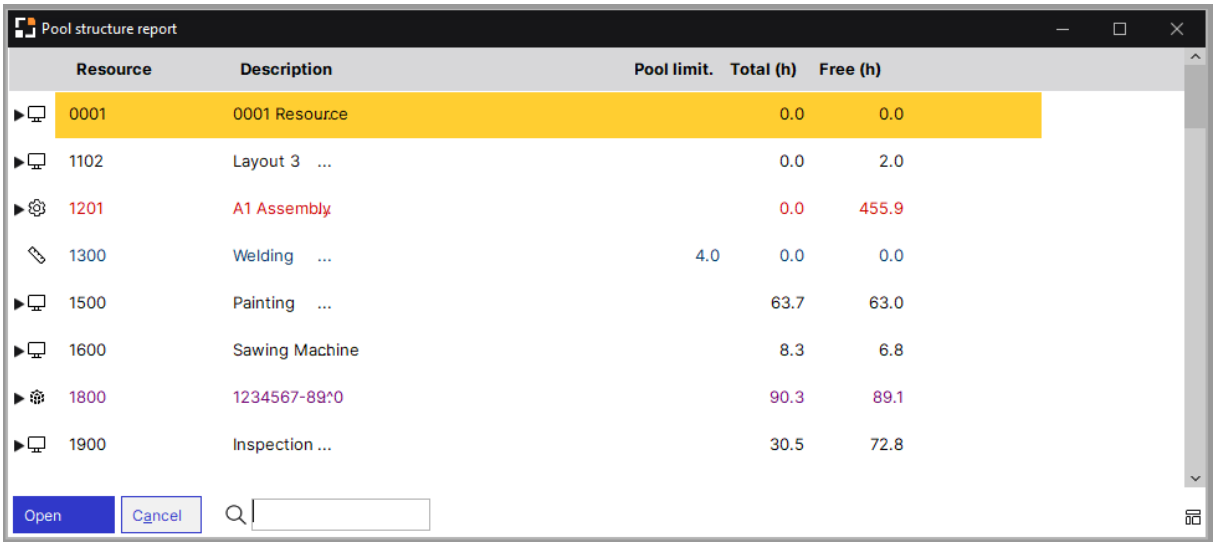
See Pool control.

PATH: Production > Capacity Planning > Pool Structure report.



Window fert_pool_struktur.psr

Boyum Style design:



Window fert_pool_struktur.psr

Field Description

Resource level

Field	Description
Resource	The resource that is being used.
Description	Optional description.
Pool limit	Total pool size (pool limit).
Pool size Total (h)	Total of dispatches – hours in the current pool.

© 2026 Boyum IT Solutions A/S

Pool size Free (h)	Number of free hours in this pool. Note: Setup total pool size in Resource.

Pool level

Field	Description
Resource	Pool number. First pool is number 1, which is followed by Pool 2, 3, 4. Pool number 0 contains all operations that can not be started, because the preceding operation needs to be reported first.
Document	Production document.
Pos	WO position.
Operation	Operation.
Activity	Activity description from operation.
Valuation date	Calculated valuation date that determines sorting. ***See*** Priority – Pool factor and Pool control.
To	Complete by this date according to operation.
Duration	Planned remaining time (planned time minus already reported time).
Login	Checks whether the preceding operation has been reported already and the operation can be logged into. Further rules are not considered.

More functions

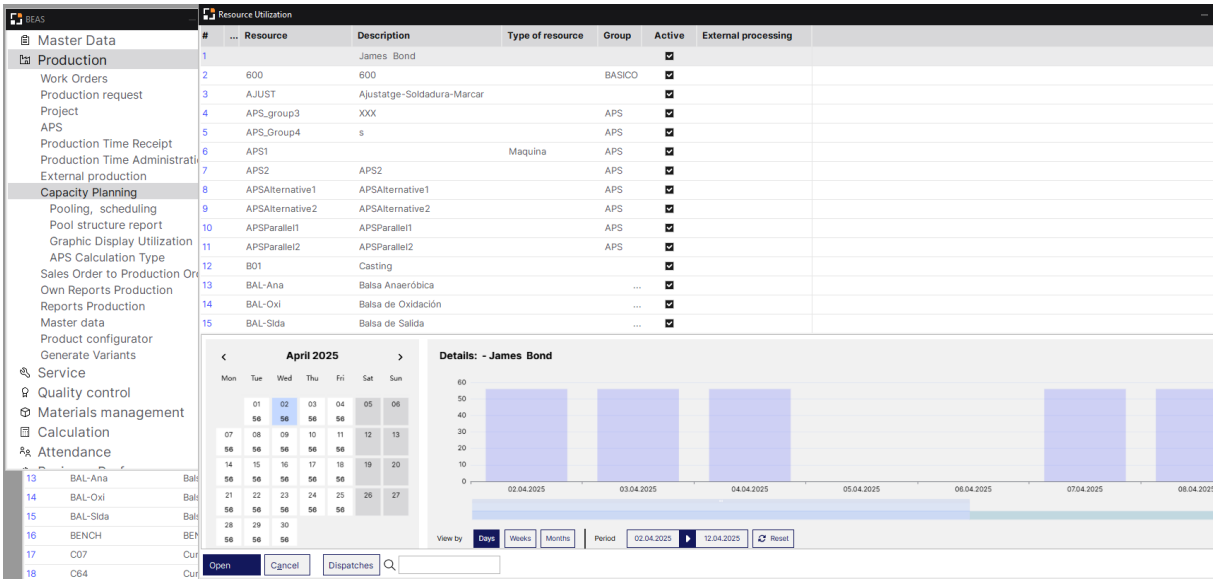
Function	Description
Add from Pool	The pool from which the operation is added.
Move To	Move into a subordinated pool. ***For example:*** Move from pool 1 to 2. The employee can no longer access this operation. The operation is now in the subordinated pool. The operation can only be started when the first pool has been finished. If there is no pool 2, it is created by this action.

See Pool Control

© 2026 Boyum IT Solutions A/S

8.10.6 Graphic Utilization Display

In the graphic utilization display, the planned times can be displayed by day, week, or month for each resource.



Window kapa_arbplatz_edit.psr

Graphical display

The graphical display provides a summary of all Resource utilization and the relevant details of a selected resource in a chart view.

You can dynamically set the window structure of your preference by selecting the placement of the graphical display in the contextual menu. The appearance is user-dependent and can be set in each screen individually.

Adjust display size by Ctrl + Scroll up/down.

Controls

- Selection list

  Select resource or resource group from the list to be displayed.

- Calendar

  The calendar visualization provides a monthly overview at resource utilization. The number of resource capacity hours are indicated under the date numbers.

  Color codes and tool tips assist usability.

  Color codes of calendar days:

© 2026 Boyum IT Solutions A/S

- Grey: Non-labor day (no capacity or holiday)
- Red: Day with overloaded capacity
- White: Any day with capacity planning
- Blue: the currently selected day

Hovering over a calendar day shows a tool tip on the relevant details of resource utilization:

Tool tips

Tool tip entry	Description
Date — shift type	Displays the date of the day over which the mouse is hovered. Right of it, the shift of this day is displayed (***see*** image above).
Overloaded	When the "Workload" exceeds the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image

© 2026 Boyum IT Solutions A/S

Tool tip entry	Description
	above).
Workload	Scheduled hours for the displayed resource.
Capacity	The available capacity of the resource in hours.

Controls:
Left-right arrows to navigate between calendar months.

- Utilization (Details) view

Workload / Time

This graphics section displays the capacity and workload (number of hours on the "Y" axis) of one, selected resource under a defined time range ("X" axis). You can select a resource to be viewed here for a period in the numbered list or by clicking on it in the "Resources summary" chart.

- **Tool Tip Description**

Tool tip entry	Description
Date / Week 01-52 / Month 01-12	The date / Time range being viewed.
Overloaded	When the "Workload" exceeds 90% of the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the selected resource.
Capacity	The available capacity of the selected resource in hours.

- **Controls**

Control	Description
View by	
Days / Weeks / Months	Select the unit of time range to view utilization details of the resource.
Period	Select a start- and end date for the period that you wish to

© 2026 Boyum IT Solutions A/S

Control	Description
	view.
Reset	Click this button to set the viewing period to the default starting date: today
Slider bar	The slider bar below the X axis shows the total time of the selected period to refine/re-adjust time selection or easily jump to any part of a longer period.

Functions

Button	Meaning
Day	Utilization display on the right: by day.
Week	Utilization display on the right: summarized by week.
Month	Utilization display on the right: summarized by month.
Dispatches	Opens a list of dispatches for the selected resource.
Work orders	Not completed work orders containing the currently selected resource are opened in the work order structure. Alternative and parallel resources are considered.

back to capacity planning

8.10.7 APS Calculation Types

APS means Advanced Planning and Scheduling. The APS extends the planning functions of the Beas Basic license with further functions for detailed planning.

New or existing work order positions are calculated by using predefined calculation types. Depending on the calculation type, the work order positions are calculated forwards or backwards and the material availability is checked. The work order then is automatically scheduled, while considering the resource limits. The calculation can be done forwards, starting from a start date (resource-optimized) or backwards, starting from a delivery date (stock-optimized). The calculation type is used to reduce the transition times in two steps.

In a calculation type, various parameters are defined to control the behavior of the calculation:
- the scheduling direction

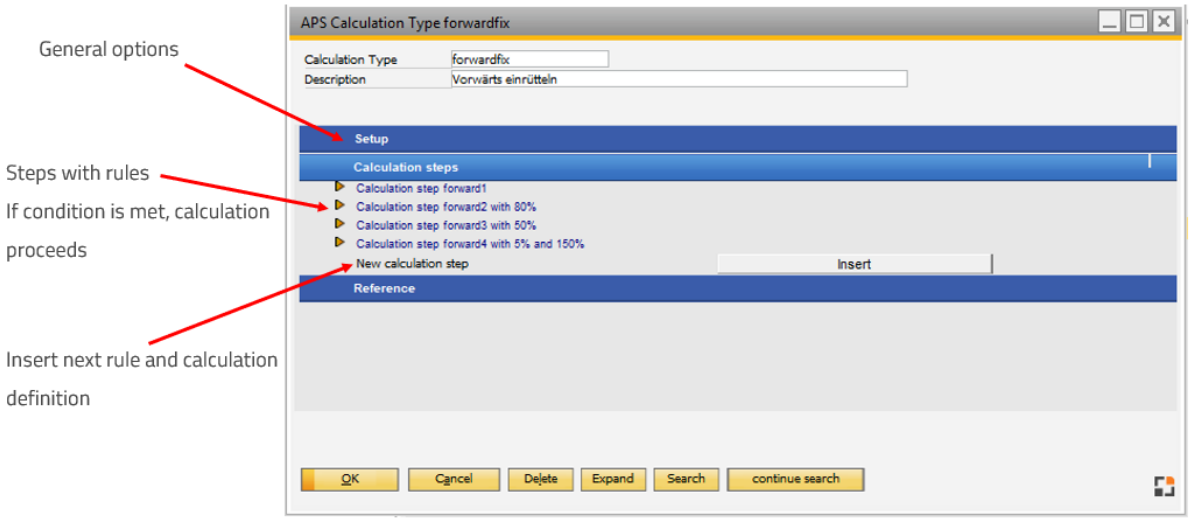
© 2026 Boyum IT Solutions A/S

- the consideration of material receipts
- buffer times.

There are five (5) default calculation types in beas. ***See*** Default Calculation Methods. Besides using the predefined calculation types it is possible to create your own in APS.

Define calculation types under: **Production > Capacity planning > APS Calculation type**. In the planning settings (**Production > APS > Open scheduling**) you can configure which calculation method is available in this plan. If a new calculation method is defined, you must remember to store this in the planning, as well.

A calculation method has the following structure:

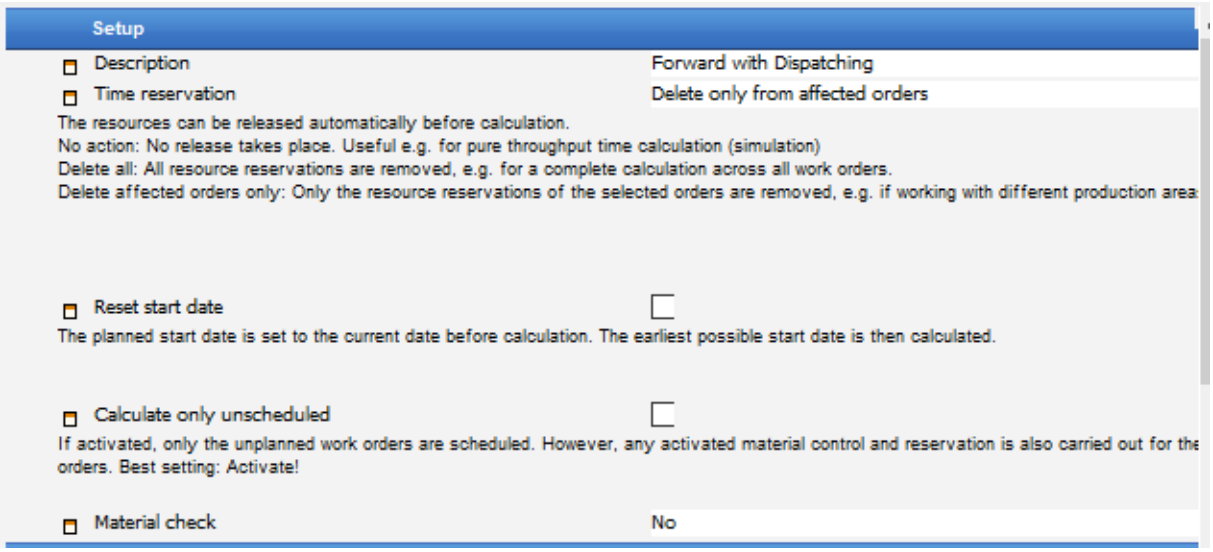


Window fert_xgantt_methode_edit.psr

To facilitate configuration, the setting is specified using a wizard. The settings are well-documented there and can generally be made without documentation.

Master data

© 2026 Boyum IT Solutions A/S



Window system_option_struktur.psr

Field	Description
Calculation type	Unique ID, the name of the calculation type.
Description	Description of the calculation type Note: The standard description is defined in the system language set in the Configuration wizard, not in the current user language, because the description is changeable and online translation is not available here.
Time reservation	Processing time reservations **Delete all:** All time reservations are deleted before calculation, including those from not visible and previously planned work orders. All resources are available to the new work orders to be dispatched. Work orders that are not recalculated, do not have any time reserved. **Delete only from affected orders:** This option is the standard setting to be used Only the resources of the orders that are recalculated are removed. This ensures that the resources of previously planned orders are retained except the resources of fixed positions. **No action:** Time reservations are not removed. As a result of which the times cannot be calculated optimally or by priority.

© 2026 Boyum IT Solutions A/S

Field	Description
Reset start date	If activated, the planned start date is set to the current date before the calculation. The earliest possible start for a production structure is then calculated.
Calculate only unscheduled	If activated, only the unplanned work orders are scheduled. However, any activated material control and reservation is also carried out for the planned work orders. It is recommended to enable this option. Work orders marked for calculation, but not calculated due to this setting, receive the "fixed" value in field "last calculation".
Material check	Type of material check. A material check can be activated which reserves the material stock or all planned accesses for the work orders by priority (soft reservation). A copy of the warehouse stock of goods issues is created and these are then assigned to the work orders by priority (sorting of the production list). If no planned issue is available, a possible issue is used: current day + lead time of the item in question. **Note**: The material check is only performed if the calculation is started in the APS view (List). For a material check, the entire production must always be seen, and the previously planned work orders must be considered. For this reason, it is important that all work orders planned and to be planned are displayed in the list, and that the previously planned work orders are at the start of the list. In this manner, during the material check the *Only calculate unplanned* option is ignored for the material check itself. Only items with positive stock inventories, which are not blocked and are released from Beas side, are taken into account. If a material is unavailable for a work order, this is displayed in the Gantt chart using a symbol. The missing material and the planned receipts can also be displayed in the list display and the Gantt chart.

© 2026 Boyum IT Solutions A/S

Field	Description
	After scheduling *1 In the material calculation after scheduling, the latest possible material receipt is calculated. The material is not correct if the previously calculated start date of the position cannot be fulfilled. **Before scheduling *2** In material calculation before scheduling, the earliest possible material receipt is calculated irrespective of the required date and this is entered as the earliest material receipt in the position. If *Consider material entry* is activated in the calculation step, the material entry determined here is considered and the operation is only started if the material is available. This only works for forward scheduling. If the missing material is an assembly (not order related) and there is already a work order, this assembly and this work order has a lower priority according to APS y View > Production List, the priority is changed automatically, i.e. the work order is moved up in the list. If *Consider material entry* is activated in the calculation step, it ensures that the sub-assemblies are always scheduled before the higher-level assemblies. **Pre- and post-scheduling** Under certain circumstances, it may be logical to activate both variants. **Important**: The "earliest possible start date" information is overwritten in the operation with "latest possible". Notes on material control: • A stock reservation has always higher priority (beas 9.3 PL 2 HF 4)

© 2026 Boyum IT Solutions A/S

Field	Description
	• Order-related assembly BOM items are completely ignored, because it is assumed that the associated manufacturing position exists in the same amount. The system ignore higher or lower quantity sub-assembly Reservation between bill of material position and work order positions are ignored. • Material requirement coverage is tested as follows: o Is stock available? o Does a planned production receipt exist? (* 2) • Stock allocation: o Check only Stock, which not reserved ▪ Is stock available? ▪ Inventory allocation? ▪ Earliest production receipt ? (* 1) ▪ Earliest purchase order ? (* 1) ▪ Earliest replenishment date ? (* 1) o Temporarily Reservations (late as possible, for material control after dispatching) ▪ Is stock sufficient? ▪ Latest possible production receipt, completed before the requirement date ▪ Latest possible purchase order receipt ▪ Inventory allocation? ▪ Earliest production receipt - possibly at a later date? (* 1) ▪ Earliest purchase receipt - possibly at a later date? (* 1) ▪ Earliest replenishment date? (* 1) (* 1) Special features of this calculation steps: In "Material check after scheduling" "too late" is active if the planned receipt is over the requirement date. The requirement date is the calculated completion date or the start date of the assigned work order. The planned receipts are assigned to the position and can be represented in the GSP list. (* 2) Only with "material check before scheduling":

© 2026 Boyum IT Solutions A/S

Field	Description
	If a work order is determined, it is first scheduled. This ensures that the work order is finished earlier and can cover the requirements as soon as possible. **Consider WareHouse** • Negative Stock is not allowed. • Ignore locked Warehouses. • Type not "Blocked WareHouse" • Reservations always have the highest priority. • If a locked batch is in a production warehouse, then the batch number is available for production. • Item Versions are not considered (no check on Batch/Serial number level) **Material linked to external routing positions** Material positions linked to an external routing position can reserve quantity which is available in an external warehouse. *(beas 9.3 PL 2 HF 4)*
Consider planned WO not in list (BETA)	If activated, the Material check will consider all open work orders that already have the status "APS planned". This means all the planned Work orders will influence the available material, regardless of whether they are part of the orders to be calculated or not. **How it works** Before the previous material check takes place, Beas collects all open WO's with the status "APS planned" and which are not part of the calculation list. These WO's influence the available stock, storage-related sub-assemblies, existing purchase orders, by reducing the available quantity.

Calculation steps

© 2026 Boyum IT Solutions A/S

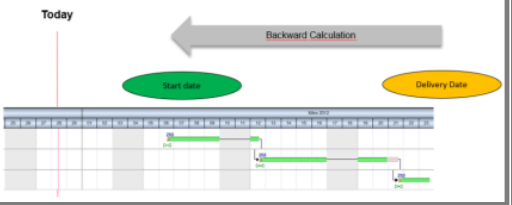
Any number of calculation steps can be defined.

Calculation step	Unique ID
Sorting	Sequence. By default, this value is set to “2”. If the user inserts a new calculation step (last field in this section), the system creates a new sub section “Calculation Step 3 3” adding 1 to the previous counter in the Sorting and Description fields.
Description	Description of calculation step.
Execution condition	Defines the condition under which this calculation step is executed

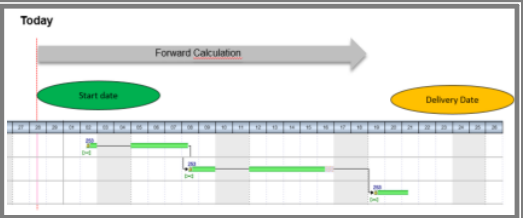
Always	The step is always executed.
Date > Delivery Date	The calculation step is executed only if the calculated end date is after the delivery date.
Date < Start Date	The calculation step is executed only if the calculated start date is before the stored start date or in the past.

This system can be used to perform for example a re-allocation:
Step 1: Calculation using default (forward).
Step 2 and following steps: Reduce transit times, increase overload and calculate again, and try to adhere to the delivery date in this way.

Scheduling Direction	Determines the calculation method or direction

Backwards	Backward from delivery date, material-optimized. Fixed operation specifications are not considered. 
Forward	Forward from start date, resource-optimized.

© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID
	
	Catch Up: Forward from present, only operations in the past and overlaps are moved. Idle time, transit time and fixed operation specifications are not considered for the work sequences in question.
Latest start	Calculates the latest start date The system tries to start as late as possible but uses only forward calculation. Beas calculates forward. If the calculated end date is earlier than the delivery date, Beas calculates again with another start date. If end date is too late, Beas attempts the same calculation with an earlier start date Use this if you want to work with material optimization and if you need forward calculation. Note: The system starts with the first work order related to the priority. If all resources are free, the system can start late. For next work order with the same delivery date, the resources are not free and the system must start earlier. Problem with this concept: The work orders with lower priority have an earlier work order start.
Consider scheduling ID	Defines handling with Consider planning flag If you do not filter out planned production orders in the planning view, you can also define the use of the planning flag using the calculation step.

© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID
	Planning indicator Delete: All flags are removed and calculation is performed. at Planned not Calculate: No calculation is performed. Always Calculate and Set: A calculation is performed and the flag is always set afterward.
Work step fixation	Defines the use of fixed operation specifications All Delete: All fixed specifications are removed on calculation Delete incorrect only: Fixed specifications that are in the past are removed. Fixed specifications producing a date overlap are not removed.
Consider material entry	If this is activated, the receipt date calculated from the material control is used at the earliest start date for the affected positions. However, this does not affect fixed positions.
Fix logged task	Specify how currently reported positions are treated. If an operation is in work (started) and a calculation is started in APS, the operation is not moved. The position is fix. Only applies to forward scheduling.
Simulation	The calculation is performed as a simulation. This means that calculated times are not reserved or written to the reservation table and visualization table. Only the start date or end date is calculated. By default, this option is unchecked. When the simulation check box is active, the system does not update fields calculation "Start time" or "End Time" in any scenario.
Consider capacity limits	Determines whether resource limits are to be considered **Enabled:** The resource with the enabled "observe capacity limits" option is never dispatched with more than 100%. All time reservations are considered, even work orders which are not currently calculated. Exceptions: • Operations are fixed manually in APS

© 2026 Boyum IT Solutions A/S

<table>
<tr><td>Calculation step</td><td>Unique ID</td></tr>
<tr><td></td><td>

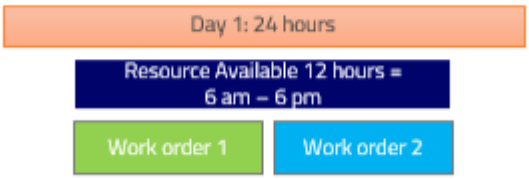
The "observe capacity limits" was disabled in resource
Priority was set to more than 100%
"Overlapping limit" setting in the calculation type was set to more than 100%

Disabled: Resource limits are not considered. Calculating work orders, time reservations of other work orders are not taken into account.
</td></tr>
<tr><td>Consideration of time receipts</td><td>
Determines whether time or goods movements should be considered when calculating the remaining time requirement.
<table>
<tr><td>Reported times</td><td>The previously reported times are deducted from the planned time and used for further calculation.</td></tr>
<tr><td>Reported amounts</td><td>The proportional time of the reported quantities (quantity specifications via the time reports) are deducted from the planned time and used for further calculation.</td></tr>
<tr><td>Not considered</td><td>The planned time is always used for calculation, regardless of the previously reported times or quantities.</td></tr>
</table>
</td></tr>
<tr><td>Exploit the full capacities</td><td>
Define the Calculation Method: "Detailed Planning" (Disabled) or Exploit Full Capacity (Enabled)
<table>
<tr><td>
Disabled: Detailed planning
<table>
<tr><td>
Beas applies this calculation method only if the following conditions are met:

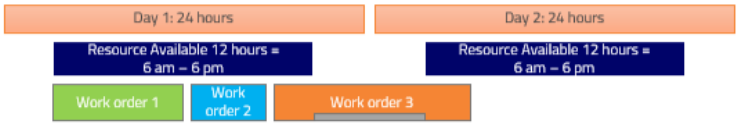
Only when forward scheduling is used in APS
Both the APS Calculation method and the work order priority are set to 100%
In the routing of a work order the operation is set as Simple utilization / or Percentage = 100%
The resource linked to each of the routing positions of the

</td></tr>
</table>
</td></tr>
</table>
</td></tr>
</table>

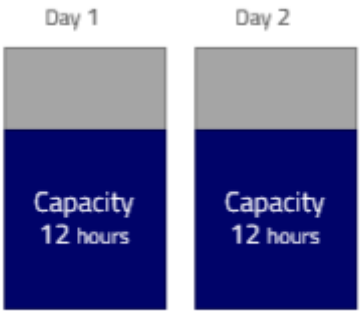
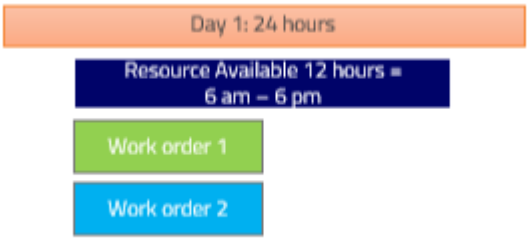
© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID
	Work order is set to have the master data fieldÂ Number of machines/Pers = 1. **How Detailed planning works:** The detailed planning checks to the minute when a resource is available, and whether the work sequence can be completed in the available time windows. Assumptions: our resource is the same on all routing position on the below reported examples and has a total capacity of 12 hours per day. ***Example 1:*** Work order No. 1 and Work order No. 2 start at 6am on the same date/time. Both work orders only have one routing position and each position has an entire duration of 6 hrs. The result of an APS forward scheduling will be: Work order 1 starts at 6am, Work order 2 starts at 12pm because between 6am and 12pm the resource is not available and is occupied by work order No. 1.  ***Example 2:*** Work order No. 1: one routing position with a duration of 6 hours, work order No. 2: one routing position with a duration of 3 hours and work order No. 3: one routing position with a duration of 6 hours.

© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID
	The result of an APS forward scheduling will be: Work order No. 1 will start on day 1 at 6am, Work order No. 2 will start on day 1 at 12pm, Work order 3, even if you have set the same start date/time for the APS forward calculation, will be moved forward to start on day 1 at 3pm but will finish on day 2 at 9am.  ***Example 3*** Work order No. 1: one routing position with a duration of 6 hours, work order No. 2: one routing position with a duration of 3 hours and work order No. 3: one routing position with a duration of 6 hours. **ATTENTION:** The following example assumes that you are working on the APS Gantt and you have set work order No. 2 manually (by dragging it on the Gantt chart) to start at a specific time (and the operation is also then fixed by APS). In this example, Work order 3 can start only start on the second day, because between Work order 1 and Work order 2 the free time is not enough. ***See*** Capacity planning - APS, Exploiting the full capacity Enabled: Exploit Full Capacity This method checks the total available capacity on a day for a

© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID
	resource. **Note:** It does NOT check when the capacity is available.  ***Example 1:*** 2 work orders, one routing position per work order, each routing position with a total duration of 6 hours. Both work orders are planned in APS with forward scheduling and with the same start date/time. The result of an APS forward scheduling will be: Both work orders will have the same start date and time because Work order 1 needs 6 hours and 6 additional hours are available for Work order 2. The start/end time of each work order is not checked by Beas.  ***Example 2:*** 2 work orders, one routing position per work order, each routing position take 8 hours. We have a total duration of 16 hours for both work orders with a total available capacity of 12 hours on the machines. The result of an APS forward scheduling will be:

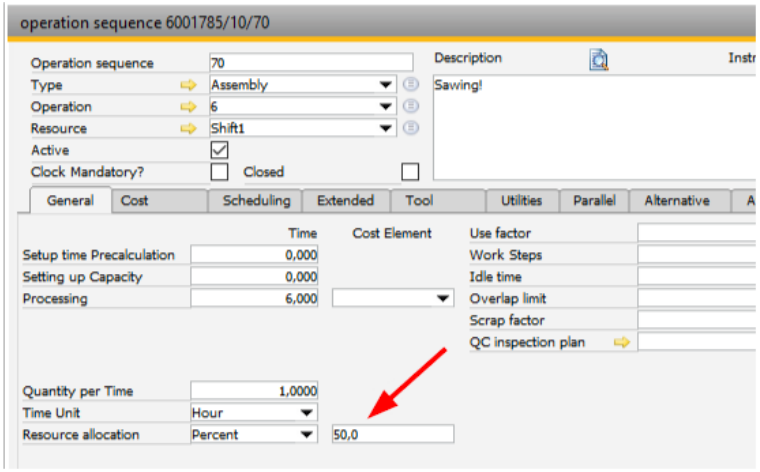
© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID

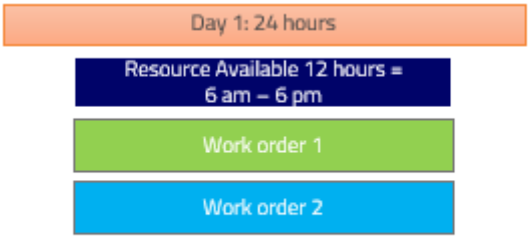
Here again both work orders start at same time but the time span by which Beas assigns the second work order is longer. The routing operation of the second work order will still be 8 hours (as well as the capacity occupied on the resource), but can take only 4 hours from Day 1 and will have to take 4 hours from the second day. This is why you will have representation in the APS GANTT for the second work order that is longer than the first one. If you check the **Resource > Dispatches > Detail**, you will see the calculated time zones for the second work order: Day 1: 6am – 10am (4 hours, as the remainder of the capacity has been taken by work order 1) Day 2: 6am – 10am (the remaining 4 hours of work order 2)

Example 3:

Work order 1 and 2 have been set to start on the same Day by APS with forward scheduling. Each of the work orders has one routing position and each of them lasts for 6 hours. You have assigned a resource allocation of 50% for each of the routing positions.



© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID
	In this situation, the Detailed planning will not be used. The result of an APS forward scheduling will be: The system plans the complete day, but on both work orders it will have the same start date/time, and they will be in parallel because of the 50% setting at the routing position resource allocation. The system will represent both work orders with a longer time span (12 hours each), but each of them will still occupy only 6 hours of resource capacity.  ***See*** Capacity planning - APS, Detailed planning
Transit time in %	Specifies the % of transit time to be considered. By default it is the stored priority setting according to the production order. A percentage value can be entered. The lower the value, the lower the throughput time is. ***See*** Transit time.
Capacity overload limits in %	Specifies the percentage the resource may be overloaded by. ***Example***: If the resource has a planned capacity of 8 hours / day and 150% is set, the order can schedule this resource for 12 hours. By default it is the stored priority setting according to the production order. A percentage value can be entered. The lower the value, the lower the throughput time is.
External operation: Consider goods receipt from PO	☐ Affects the finishing date of the external operation Note: Only adjustable for forward scheduling.

© 2026 Boyum IT Solutions A/S

Calculation step	Unique ID
	• **If there is no purchase:** The finishing date is calculated based on the deposited job times (if time calculation is active). Then, the idle period is added. **Note**: idle time is often used for calculating the lead time. • **If there is one open purchase**: The finishing date is delivery date + time of day as per calculation setting. Idle time is ignored (see above). • **If there are several open purchases**: The finishing date is delivery date + time of the first purchase + time as in calculation settings. • **If start date of the operation is after delivery date:** The finishing date is the same as start date of the operation (0 processing time) idle time is set to 0. Only transit time is taken into account. ***See*** External production - Delivery date determination / Lead times
External operation: Time of inflow	This option is available only if the field **External Operation: Consider Good Receipts from PO** is checked. At purchase only the date can be entered, not the time, so an default time (standard: 3pm (15:00)) is defined. The usual warehouse delivery time should be entered.
Set work sequences logged in	If a work sequence is currently logged in and this option is active, the start time for this work sequence is ALWAYS the present. This only works for forward-scheduling.

Reference

Report	Enable to make the calculation type as available in APS list view. By default, this option is unchecked.
Gantt Display	Enable to make the calculation type as available in the Gantt display. By default, this option is unchecked.

Choose calculation type

8.10.7.1 Default Calculation Methods

The calculation methods are user-definable in APS. The most important methods are pre-configured in Beas.

© 2026 Boyum IT Solutions A/S

(Backward) Backward simulation
(Backwardres) Backward Dispatch
(forward) Dispatch forward
(forwardfix) forward Re-allocate
(Catch_up) Catch Up
(forward material) forward with Material check
(forward_opt) forward with optimization

(Backward) Backward simulation

Backward simulation determines the latest possible start date without considering time reservations and material availability. This start date is written in the production order. No times are reserved. Fixed operation specifications are not considered in backward scheduling. Work orders that are logged in (started) are not specified as fixed.

(Backwardres) Backward Dispatch

In this method, dispatching is performed to the latest possible date, taking time reservations into account. The planning flag is removed. Fixed operation specifications are not considered in backward scheduling. Work orders that are logged in (started) are not specified as fixed.

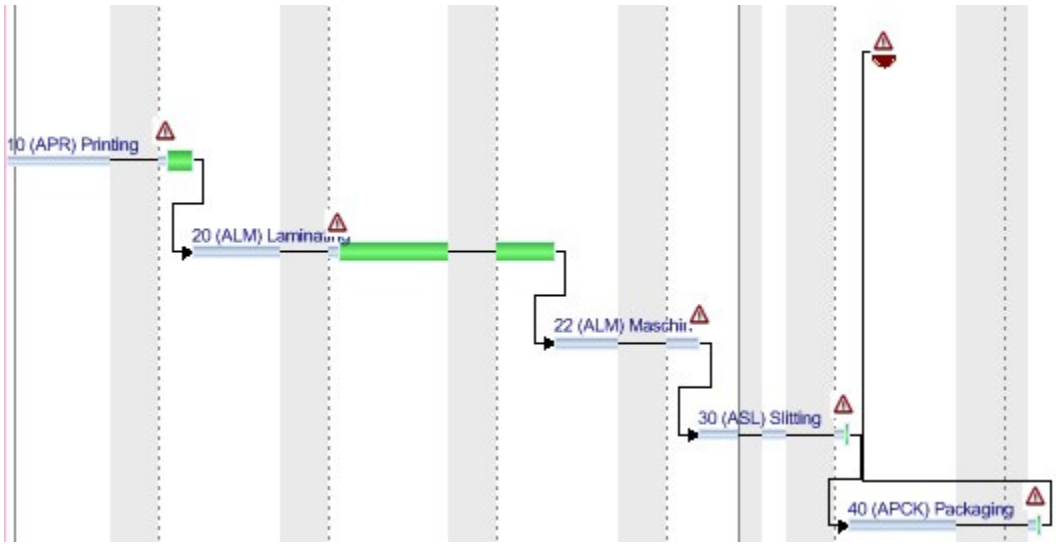
This method is used if the material should be purchased as late as possible. This method therefore works in a material-optimized way. Conversely, forward scheduling works in a resource-optimized manner.

(forward) Dispatch forward

This method calculates on a resource-optimized basis. Time reservations are considered. The planning flag is removed. Fixed operation specifications are considered. Work orders that are logged in (started) are fixed.

This calculation method is the default method for rough and detailed planning. In the graphical view you should generally work with forward scheduling. Resource-oriented planning is only possible with this method.

© 2026 Boyum IT Solutions A/S



Example: Dispatching commences from today regardless of the delivery date.
If the delivery deadline is exceeded, the operations are highlighted with a question mark.

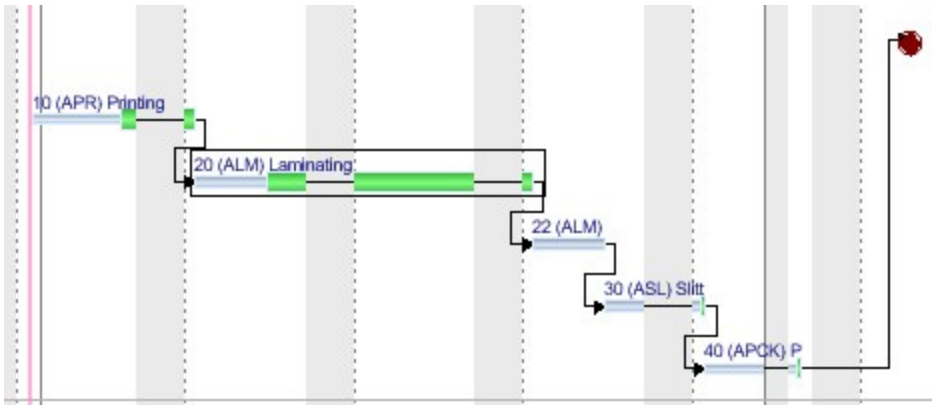
(forwardfix) forward Re-allocate

The "Dispatch forward" method calculates from the start date on a resource-optimized basis. Time reservations are considered. The planning flag is removed. Fixed operation specifications are considered. Work orders that are logged in (started) are fixed.
Special feature:
If the delivery date cannot be met, the transit time is reduced gradually and the resources are overloaded. An attempt is made to dispatch the order using different calculation concepts, so that the delivery date can be met. Where necessary, the resources are overloaded or the transit times are severely reduced, but the delivery date cannot be guaranteed at all times.

The procedure:

- Default forward scheduling with saved priority
- Reduce transit times to 80% and schedule forward
- Reduce transit times to 50% and schedule forward
- Reduce transit times to 5%, resources are overloaded by up to 150%

© 2026 Boyum IT Solutions A/S



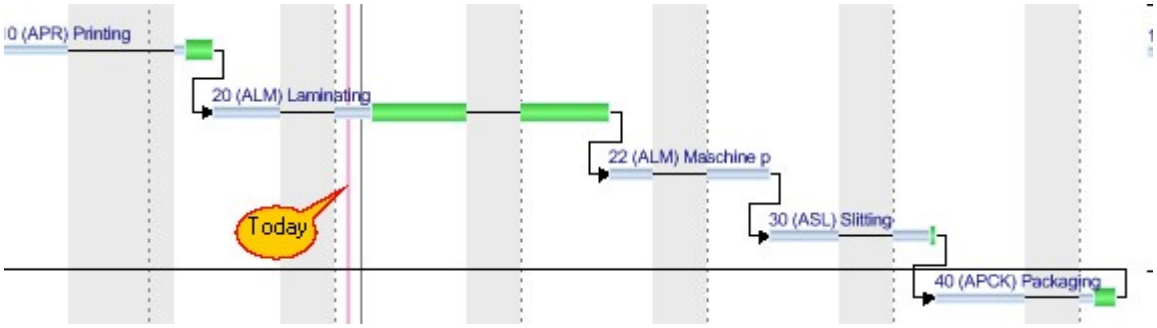
Example: Same situation as with dispatching forward. The transfer times are compressed, which reduces the throughput time.

(Catch_up) Catch Up

If an order is scheduled but not processed, the time reservation is in the past the next day. In this case, the time reservations must be moved to the present. The "Clear backlogs" calculation function is available for this.

All time reservations are moved from the past to the future. However, the order is retained. Resource limits, idle time, transfer time, and fixed operation specifications are not considered, which compresses the work sequences extremely. This compression is only performed for the work sequences that must be moved because they were not processed.

Example: 2 work sequences are in the past.

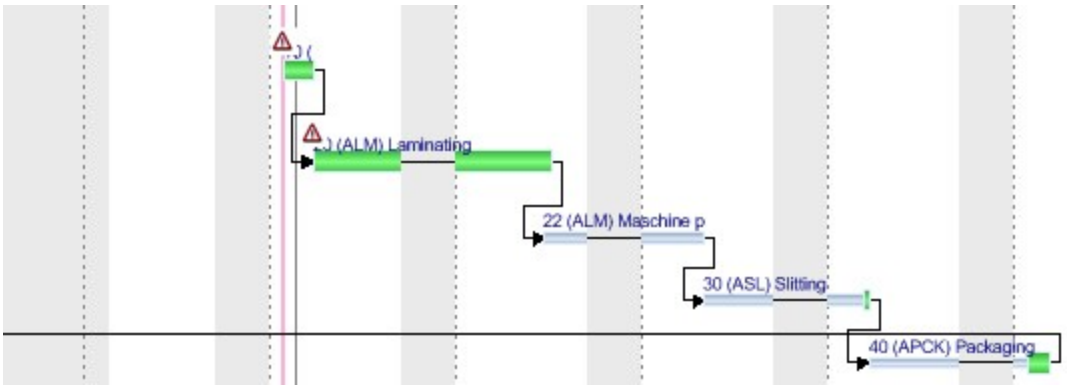


After clearing the backlog:

Transit and idle times are cut and the first work sequence is moved forward.

The work sequences from 22 are not moved.

© 2026 Boyum IT Solutions A/S



(forward material) forward with Material check

Forward calculation with Material check before calculation.

Start calculation as fast as possible (resource optimization), but not before Material is available (simple material check with temporal material reservation).

(forward_opt) forward with optimization

Forward calculation with the latest start.

Calculate always latest possible start with Material check. For more information ***see*** "latest Start".

8.11 Quality control

Beas includes an extended quality control module.

The quality control module is available from **Production > Quality control.**

Define QC-inspection plans where the behavior and parameters of the quality control procedure can be set. Complex rules can be stored.

Define in the Item master - Quality control which QC-inspection plan is to be used for the specific item. A QC-inspection plan is always related to a document. ***See***: Document types

Quality control orders can be created in different ways for the items. ***See*** Quality control orders.

During the quality control process, values can be registered per sample or per measurement position. Measured values or attributes (numbers) can be registered. Each measurement position, sample or QC-order can be valued and scrap reasons can be entered. Material is released by entering the measured value, by manual confirmation, or by performing a check using the four-eyes principle, and additionally, with electronic signature. In the last step, released goods are transferred to a Standard warehouse or released by releasing the batch status.

You can create documents per QC-order. Reading of the created documents can be made mandatory. A reading confirmation can be set.

© 2026 Boyum IT Solutions A/S

Test equipment and samples are supported. Samples can be generated for a time internal, fixed quantity, scale quantity or per serial number.

Also see:

QC with beas

Webinar

QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

> **Note**: Registering measured values and releasing is performed using the personnel number. A link between user and personnel number is mandatory.

Configuration of the Quality control order

Quality control orders

Quality control order - Item master - Quality control - QC-inspection plan

Register per sample

Register measurement position

Edit measurement position

Register per test

Register measured values for all samples

Documents

Transfer

Concepts

© 2026 Boyum IT Solutions A/S

Work with QC warehouse	Goods are posted to a QC warehouse first, then the release is posted to the standard warehouse. A QC warehouse must be created: 1. Create a warehouse: SAP B1 - Setup - Warehouse 2. Set up the warehouse as a Quality control warehouse. Warehouse administration - Edit - Warehouse type. 3. Go to Configuration wizard > Quality control to adjust further behavior. 4. Create a QC-inspection plan and store it in the Item master- Quality control. Depending on the settings in Configuration wizard, when posting the goods, the Quality control warehouse is automatically selected. In the Quality control order measured vales can be registered and the order can be released. Use the Transfer window to post the material to the release warehouse or to the blocked warehouse. This is defined in Warehouse rules.
Batch release	Release via batch status. The release can be performed using batch status when working with batches, and a further processing of blocked batches can be prohibited this way. In this case you can work without a QC warehouse and transfer of goods. It is necessary to create a QC-inspection plan and to store it in Item master - Quality control. **Important:** the batch needs to be blocked when it is posted. This is set up in Configuration wizard > Materials management > Purchase goods receipt > Batch administration or Production - Valuation and posting the assembly - Batch administration.

© 2026 Boyum IT Solutions A/S

Work with QC warehouse	Goods are posted to a QC warehouse first, then the release is posted to the standard warehouse. A QC warehouse must be created: 1. Create a warehouse: SAP B1 - Setup - Warehouse 2. Set up the warehouse as a Quality control warehouse. Warehouse administration - Edit - Warehouse type. 3. Go to Configuration wizard > Quality control to adjust further behavior. 4. Create a QC-inspection plan and store it in the Item master- Quality control. Depending on the settings in Configuration wizard, when posting the goods, the Quality control warehouse is automatically selected. In the Quality control order measured vales can be registered and the order can be released. Use the Transfer window to post the material to the release warehouse or to the blocked warehouse. This is defined in Warehouse rules.
	In quality control order, the batch can be released manually or automatically - depending on the setting. Setup the behavior in Configuration wizard - Quality control - Batches.
Batches expiration date	Check after date of expiry. Date of expiry can be checked and, based on this date, a new QC order can be created. ***See*** Batches to be verified.
Operation sequence related inspection plan	QC-inspection plan stored in operation sequence. With this method no goods are moved. You can define, that a QC order is created for this step. The subsequent work steps can be blocked until release (***see*** Configuration wizard > FDC > rules). To set this up: 1. Create a QC-inspection plan and store it in the Operation sequence.

© 2026 Boyum IT Solutions A/S

Work with QC warehouse	Goods are posted to a QC warehouse first, then the release is posted to the standard warehouse. A QC warehouse must be created: 1. Create a warehouse: SAP B1 - Setup - Warehouse 2. Set up the warehouse as a Quality control warehouse. Warehouse administration - Edit - Warehouse type. 3. Go to Configuration wizard > Quality control to adjust further behavior. 4. Create a QC-inspection plan and store it in the Item master- Quality control. Depending on the settings in Configuration wizard, when posting the goods, the Quality control warehouse is automatically selected. In the Quality control order measured vales can be registered and the order can be released. Use the Transfer window to post the material to the release warehouse or to the blocked warehouse. This is defined in Warehouse rules.
	2. Select the timing of the QC order creation in Configuration wizard > Quality control > Production > Create QC-order automatically.

- Customized extensions
  - Data structure

    Data structure Quality control

    QC inspection plan

    `BEAS_QSARTIKELHAUPT` QC inspection plan (ItemCode,KND_ID)

    `BEAS_QSARTIKEL` inspection plan measurement position (ItemCode,KND_ID,POS_ID)

    `BEAS_QS` Template for a measurement position (QS_ID)

    `BEAS_QSARTIKELSUB` parallel inspection plans (ItemCode,KND_ID,SubItemCode,SubKND_ID)

    `BEAS_QSATTACHMENT` attachments (ItemCode,KND_ID,POS_ID,LineId)

    Master data

© 2026 Boyum IT Solutions A/S

BEAS_QSGROUP QC groups

BEAS_QSSPERRGRUND QC blockage reasons

BEAS_QSVALUATION QC valuation methods

Item

OITM Item master

BEAS_QSVERWEIS connection item master to QC inspection plan

BEAS_QSARTIKELHAUPT QC inspection plan

QC Order

BEAS_QSFTHAUPT QC order

BEAS_QSFTPOS QC sample

BEAS_QSFTMESSUNG QC measurement position (Copy of BEAS_QSARTIKEL)

BEAS_QSFTATTACHMENT QC attachments

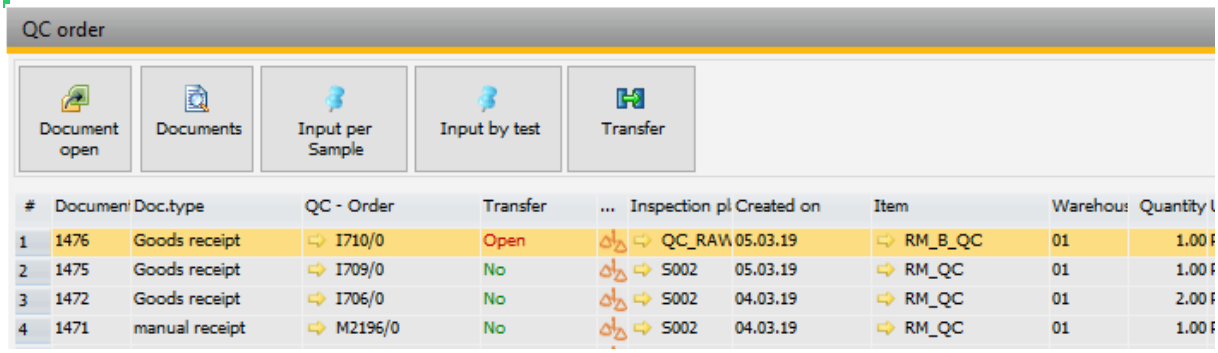
BEAS_QSFTATTACHMENT_CONFIRM QC attachment reading confirmation

BEAS_QSARTIKELSUB parallel QC inspection plans

8.11.1 Quality control orders

All active QC-orders are displayed in the Quality control orders list. This dynamic list can be set up via window settings. Templates are supported, custom fields can be added.
Closed quality control orders are hidden by default. Use the **Search** button to display them.

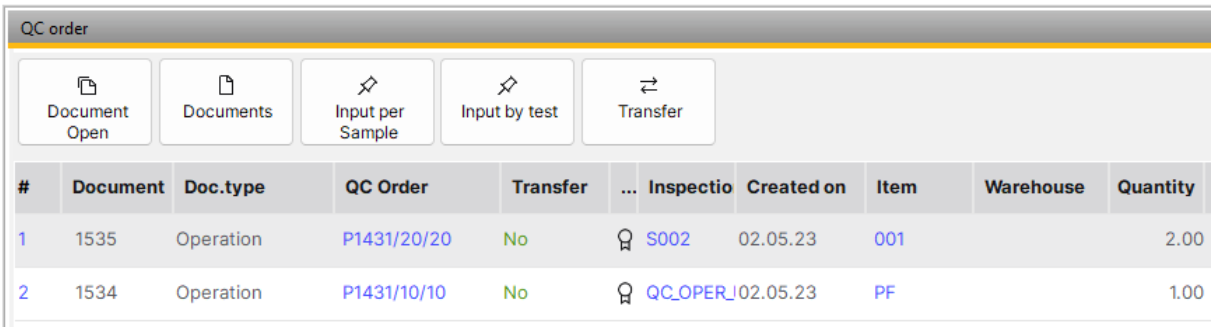
PATH: Production > Quality Control > QC order



Window qs_qshaupt_browse.psr

Boyum Style

© 2026 Boyum IT Solutions A/S



Window qs_qshaupt_browse.psr

Ribbon

Function	Description
Document open	Open the Quality control order.
Documents	Open the documents of the currently selected QC order ***See*** Documents.
Input per sample	Open the list of samples for the currently selected QC order. Function is blocked if only input by test is allowed for this order.
Input by test	Open list of required tests for the currently selected QC order. Function is blocked if only input per sample is allowed for this order.
Transfer	Open transfer window for the currently selected QC order. Function is blocked if no items can be transferred.

Field descriptions

Data of QC-orders is displayed here. For field descriptions, ***see*** Edit QC-orders.

Functions

Function	Description
Search	Search for inspection plans.
Open	Edit the currently selected QC order.
Refresh	Update the list without reopening it.
Add	Create a new QC order without any reference. ***See*** new QC order. *(beas9.1-004-064-000)*
Reports	Open Reports.

See documentation on WebApps 2.1 managing QC orders:

© 2026 Boyum IT Solutions A/S

QC by Sample

QC by Test

QC Transfer

QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

8.11.1.1 Edit QC orders

In this window a QC order is edited. The window consist of the following parts:

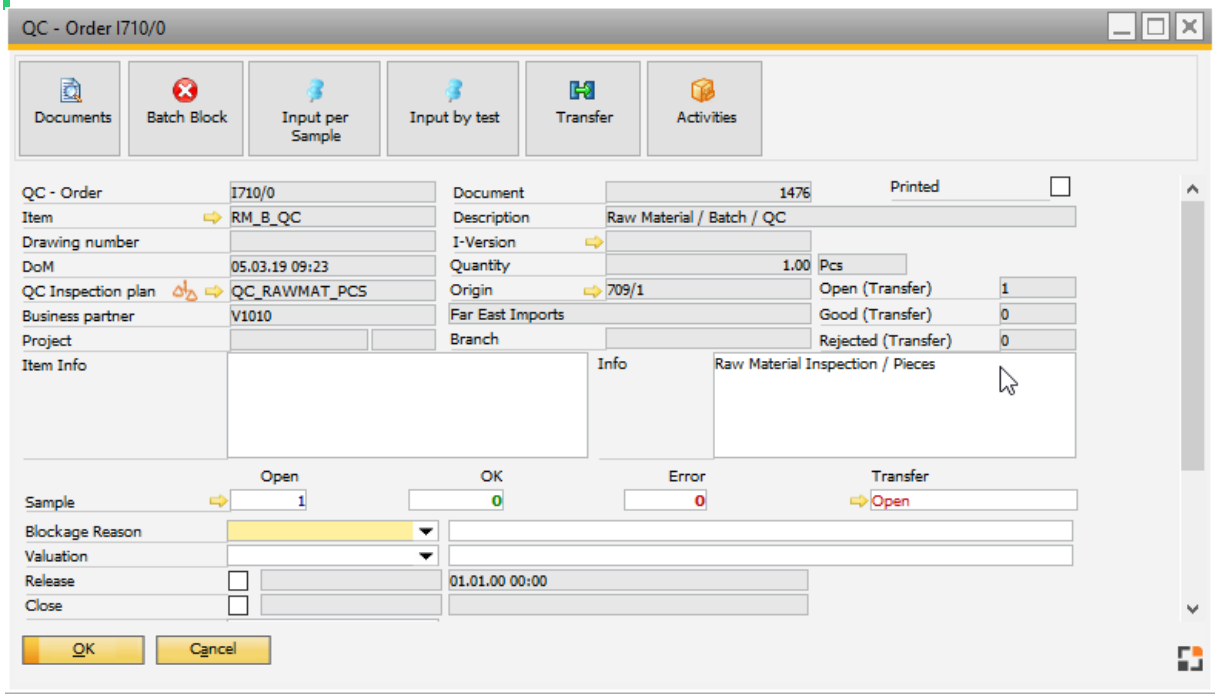
Ribbon

QC-order information

Status information

Release and Valuation

PATH: Production > Quality Control > QC order > **Open** an entry.

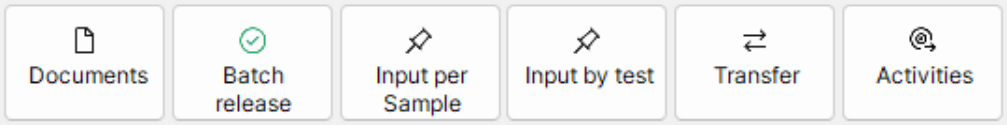


Window qs_qshaupt_edit.psr

Ribbon

Traditional Style	

© 2026 Boyum IT Solutions A/S

Boyum Style	

Buttons

Field	Description
Documents	Opens the documents window. It stores all documents linked to the QC order.
Batch block	Release or block the linked batch Only visible at batch-managed items. When releasing the item, only the batch status is changed to released. No transfer occurs. The expiry date may be set. For more information refer to **Configuration wizard > Quality control >** Batches. Concept of releasing batches
Input per sample	The Samples window opens. The button is displayed only if activated in QC-inspection plan – registration. ***See*** our QC by Sample WebApp dedicated to this function. QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration
Input by test	The Input by test window is opened. The button is displayed only if activated in the QC-inspection plan – registration. ***See*** our QC by Test WebApp dedicated to this function. QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration
Transfer	The transfer window is opened. The item can be transferred from the goods receipt warehouse to the default warehouse or blocked warehouse. ***See*** Concept goods receipt warehouse. ***See*** our QC Transfer WebApp dedicated to this function. QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration
Activities	Open the list of SAP Activities linked with the selected QC order.

QC-Order

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>QC-Order</td><td>ID of the QC Order. The first character indicates the document type.
Document types:
<table>
<tr><td>Goods receipt PO (I)</td><td>Purchase goods receipt</td></tr>
<tr><td>Production (E)</td><td>Assembly posting in production</td></tr>
<tr><td>Sales-Return (R)</td><td>Sales credit or offset</td></tr>
<tr><td>Reaching Date of Expiry (C)</td><td>Set at "batches to be verified"</td></tr>
<tr><td>Stock transfer (T)</td><td>Stock transfer</td></tr>
<tr><td>Goods Receipt (M)</td><td>All manual postings</td></tr>
<tr><td>AP Invoice (X)</td><td>Purchase invoices</td></tr>
<tr><td>Goods return (Y)</td><td>Returns from purchase with negative amounts</td></tr>
<tr><td>Credit note (Z,O)</td><td>Credit memos</td></tr>
<tr><td>AR Invoice</td><td>Invoice with negative amounts</td></tr>
<tr><td>Delivery (P)</td><td>Deliveries with negative amounts</td></tr>
<tr><td>Invoices (Q)</td><td>Invoices with negative amounts</td></tr>
<tr><td>Batch Split (A)</td><td>Batch split</td></tr>
<tr><td>Batch transfer (B)</td><td>Batch transfer</td></tr>
<tr><td>Manual</td><td>Manual creation</td></tr>
<tr><td>Cancellation</td><td>Cancellation</td></tr>
</table>
See how you can create QC order for SAP documents without Beas running.
How to create QC orders for SAP documents without Beas running</td></tr>
<tr><td>Document</td><td>Unique document number (beas9.0-000-003-005)</td></tr>
<tr><td>Type</td><td>Reason for the QC order (goods receipt, work order etc.)
See: Types</td></tr>
<tr><td>Printed</td><td>After the QC order is printed first, this check box is automatically enabled.</td></tr>
<tr><td>Item</td><td>Item to be checked: version number and item designation</td></tr>
<tr><td>Description</td><td>Description of the item.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

I-version	I-version according to source document.
Drawing number	Drawing number of the item.
Current Date	The creation date of the present QC order.
Quantity	Quantity already posted or to be checked. The quantity is displayed in Inventory UoM.
QC-inspection plan	Link to QC-inspection plan.
Source	Source document The source document can be opened via the arrow. **Note:** Multiple sources are also possible, eg. a receipt for a work order document. In this case the receipt document is opened as direct origin of the QC order. The production structure view with this work order is displayed if the source document is a production-operation sequence. The operation sequence is opened directly if the work order has more than 2 production positions. Otherwise an assignment in the structure view would be very difficult. *beas 9.2 PL: 02*
Business partner	Link to Business partner in origin document.
Item info	Information from Item QC-note that can be edited.
Information	Free text information on the QC order.

Status information

Field	Description
Sample open	Number of samples not yet released.
OK	Number of released samples.
Error	Number of samples marked as faulty.
Transfer	Transfer status. ***Also see*** Transfer, Concept Goods receipt warehouse. • no: no transfer needed • open: not yet transferred or not completed • posted: item completely posted
Transfer Open	Information related to transfer documents. This field shows open transfer items.

© 2026 Boyum IT Solutions A/S

Transfer Good	Information of good items.
Transfer Rejected	Information of rejected items.

Release and Valuation

Field	Description
Blockage reason	Enter blockage reason Enter the possible blockage reasons. You can only select blockage reasons that match the QC-inspection plan group or have no entry in the group and they need to be visible in the respective area (Order, sample, measurement). Blockage reasons may have further effect. ***See*** Blockage reasons
Valuation	QC valuation. Field only visible if Valuation was not set to "no" in QC-inspection plan . Entry is mandatory if Valuation was set to "mandatory" in QC-inspection plan. Valuation reasons are setup under Valuation You can only select valuation reasons which match the QC-inspection plan group or which have no entry there. Furthermore, they need to be visible in the respective area (Order, sample, measurement).
Release	Release the QC order Automatic release depending on the settings. Conditions are defined in QC-inspection plan - Release An electronic signature may be required. Release affects the release name and release date fields. Depending on the settings, the order is either closed automatically or transfer or batch release is allowed.

© 2026 Boyum IT Solutions A/S

	Note: If parallel QC-inspection plans have been defined, a QC-order may only be released, after all related QC-inspection plans had been released. An automated release may be blocked. *(beas 9.1 PL: 08)*
Close	Close the QC-order. If the QC-order is closed, it is displayed in the quality control list only, if Search for Archive was used. If the order is closed: • The "closed by" / "at" fields are automatically set. • The order can no longer be edited, measured values can not be changed, material can not be posted. A closed QC-order can be re-opened using right-click > Open document.
Batch	Display linked batch. Field is only visible if a batch related item was stored. If only one batch is linked, the field cannot be edited. In other cases, the batch can be selected. Use release to release or block the batch. Click the orange arrow to display batch details.
UDF1..UDF4	User definable fields can be set up in the Configuration wizard.

Right-click functions

Function	Description
Change log	The Change Log displays all changes for the Quality Control order.
Document open	Open selected document.
Remove	Delete current QC order. Note: You can only delete an existing QC order that has no measurement positions or released positions.

© 2026 Boyum IT Solutions A/S

8.11.1.1.1 Input per sample

Input per sample can be used if the complete checking process is performed subsequently for every sample or for every unit to be checked. You can select between "per piece" or "per x pieces" or "per x minutes". The behavior is set up in QC-inspection plan. If "per serial number" was stored in the QC-inspection, a separate sample will be created for every serial number.

All samples for this order are displayed in the list. Window settings and Templates are supported. Samples can or must be released depending on the settings in QC-inspection plan – Release. The Four-eyes principle and the electronic signature are supported. If a reading confirmation of the documents is required, editing is prohibited.

User example:
You have a QC order with 4 Measurements positions.
There is a Goods receipt with 10 Serial Numbers, and you have 1 Sample per 1 Serial Number.
Produce 10 Samples / Measurements

TO DO: Check Serial 1 for all 4 measurement positions, and then Serial 2... for all 4 measurement positions.

The window is split into the following parts:
Ribbon
Samples list
Release and Valuation
Functions

See
Quality control orders
Quality control order - Item master - Quality control - QC-inspection plan
Register per sample
Register measurement position
Edit measurement position
Register per test
Register measured values for all samples
Documents
Transfer

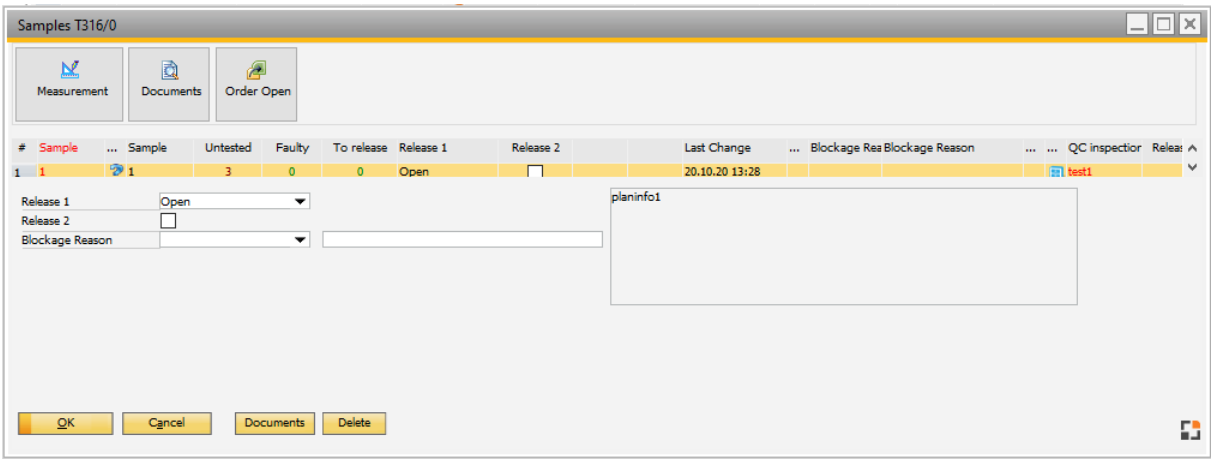
See our QC by Sample WebApp dedicated to this function.
QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

© 2026 Boyum IT Solutions A/S

Ribbon

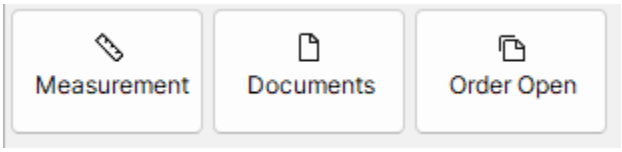
PATH: Production > Quality Control > Samples > select an entry > **Samples** button.

Button	Meaning
Measurement	Open selected sample to edit in window Measurement samples.
Documents	Open Documents window to read or edit linked documents. ***See*** QC-inspection plan – Documents.
Order Open	Open the QC-order. If the Sample is opened from the QC order, this button is not displayed.



Window qs_ftmessung_browse.psr

Boyum Style top bar button design:



Samples list

Field	Meaning
Status (...)	An icon indicates the status of the sample.
Sample	Position number
Untested	Number of unchecked measurement positions .
Faulty	Number of measurement positions marked as faulty (with blockage reason).
To release	Number of measurement positions to be released.

© 2026 Boyum IT Solutions A/S

Release 1/2	Release ID.
Last change	Data/Time of the last change.
Blockage reason	Stored blockage reason.
Valuation	Stored valuation.
Release Date / Name / Station	Release 2 – Date, Name, Station etc..
QC Inspector	The personnel performing QC inspection.
Info	Information on the QC process, e.g. the type of inspection / pieces.

Windows settings are supported.

Release and Valuation

Feld	Meaning
Release 1	Status Release 1

Status	Description
Open	Not all values have been registered.
Released	Status is automatically set to "released" after all measured values have been registered and no errors were reported. Additionally, the system will set samples with deactivated flag "relevant" to "release" status . This validation is executed every time a measured value is registered. ***See*** the definition of this flag here. Flag "relevant" is stored per each quality work order sample. It means that if you change "relevant" field in the definition of the QC plan, all previous existing QC orders will not apply the new value. It is not possible to change this flag manually.

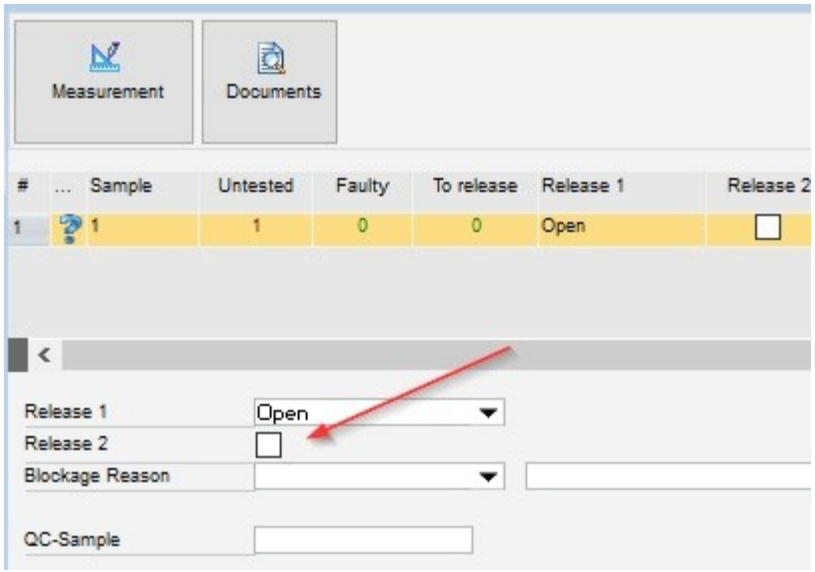
© 2026 Boyum IT Solutions A/S

Status	Description
Blocked	For all relevant measurement positions a blockage reasons was stored, with activated flag "block release". It is not possible to change this flag manually.
Manually Locked	Define this if you want to define this Sample as locked without definition of all Measurements. Only available if Status is "opened manually" or "Released" and QC order not released. This flag disables the flag "Release 2".
Manually Opened	If all entries are OK and you want to open the entry, you can choose "manually opened". Only available if Status is "released" or "Blocked" or "manually Blocked" and QC order is not Released. This flag disables the flag "Release 2". *beas 9.3 PL 2 HF 1*

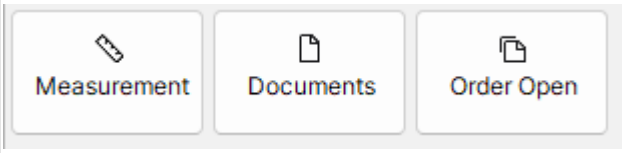
Note: The sample is not released automatically if it has no testing position or relevant testing position.

Release 2	Status Release 2

© 2026 Boyum IT Solutions A/S



Boyum Style top bar button design:



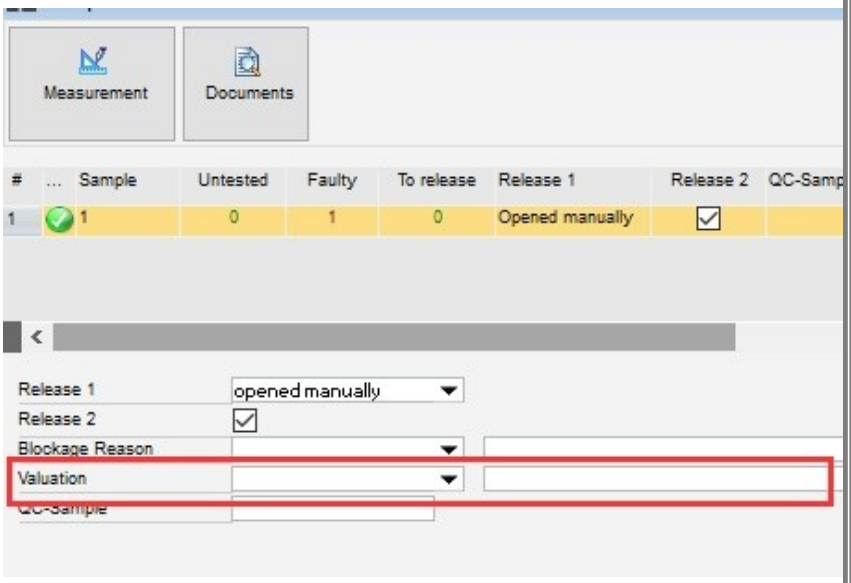
For samples the Four-eyes principle is supported. Depending on the settings, the status is set automatically or manually. Electronic signature may be necessary.

Behavior is defined in QC-inspection plan - Release.

Possibly required prerequisites:
- Release measurement positions completely,
- electronic signature,
- Valuation ,
- Reading confirmation for documents.

Blockage reason	For incorrect measuring a blockage reason can be stored Enter the possible blockage reasons. You can only select blockage reasons that match the QC-inspection plan group or have no entry in the group and they need to be visible in the respective area (Order, sample, measurement). Blockage reasons may have further effect.

© 2026 Boyum IT Solutions A/S

	See Blockage reasons
Valuation	Value the sample Define the Valuation . Field can be hidden in QC-inspection plan Release-settings or set to mandatory.  Valuation reasons are setup under Valuation You can only select valuation reasons which match the QC-inspection plan group or which have no entry there. Furthermore, they need to be visible in the respective area (Order, sample, measurement).
UDF1 ... UDF4	Free definable UDF setup in Configuration wizard.

Functions

Function	Meaning
Add	Create another sample This may be necessary, for example, if further samples are required or another QC plan should be used due to differences occurring.

© 2026 Boyum IT Solutions A/S

	The QC plan stored in the "QC plan" tab is used at all times. The current inspection plan is used at all times. To use the same inspection plan as for the other samples, apply "copy" instead of "new".
Duplicate	Duplicate sample Alternative to "New". The currently selected sample is copied without a measurement result. Use this option if a exact same second sample is needed. In contrast to "new", possible changes in the inspection plan are not taken into account, but values changed in the sample are considered.
Change log	The Change Log displays all changes for the Quality Control order.
Remove	Remove selected sample entry.
Documents	Open the browse window listing documents attached to the current QC order.

Note: Registering measured values and release is performed using the personnel number. A linkage between User and Personnel number is mandatory.

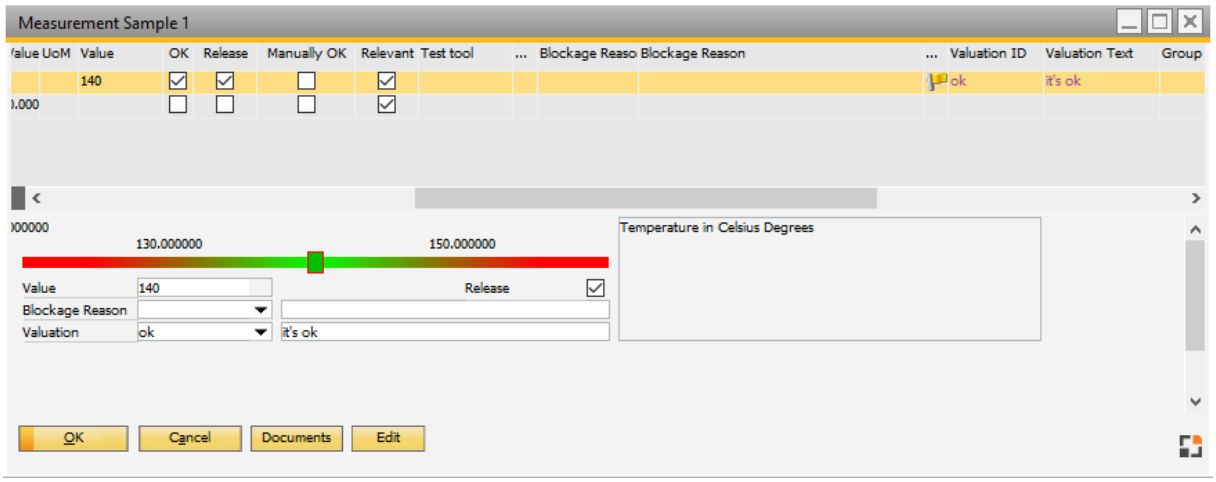
back to Edit QC order.

8.11.1.1.1.1 Measurement samples

In this window all measured values can be entered for a Sample.
Window is dynamically adjustable. UDF and Templates can be stored. The authorization for QC-order is required.

PATH: Production > Quality Control > Samples > select an entry > **Samples** button > double-click/**Open** an entry.

© 2026 Boyum IT Solutions A/S



Window qs_qsftpos_edit.psr

After all measured values have been registered, in the sample "release 1" is set to status "released". Depending on the settings, a second release follows, "Release 2", a "batch release", a release of the QC-order or the QC order may be automatically closed. ***See*** QC-inspection plan – Release.

- Definition "Sample ok"

A sample can consist of several measurement positions. A sample is considered "OK", if - "OK" and "Release" are active for all relevant measurement positions, - No blockage reason was stored for no measurement position causing "Block release", - Samples have been set manually to "released", - "Release 2" was activated.

- Definition "Sample blocked"

A sample is blocked, if - the sample was set to "manually blocked", - in all measurement positions blockage reasons are stored, in which the ID "Block release" is active. There is no automatic blockage of a sample only due to measurements outside the allowed range.

Configuration of the window:

Measurement positions list

Register measured values

Functions

© 2026 Boyum IT Solutions A/S

See

Quality control orders

Quality control order - Item master - Quality control - QC-inspection plan

Register per sample

Register measurement position

Edit measurement position

Register per test

Register measured values for all samples

Documents

Transfer

Measurement positions list

Field	Meaning
POS	Number of measurement.
QC-Test	Test title.
Methodology	Description of method.
Minimum	Allowed minimum.
Maximum	Allowed maximum.
Target	Target value.
UoM	Unit of measurement.
Sample	Sample ID.
Measurement value	Enter the current value or text.
OK	check mark, if OK or manually, without entering a value.
Release	Release measurement position? See Personnel > FDC > QC Release
Relevant	check mark, if relevant for release.
Blockage reason ID	Blockage ID. With right-click a blockage reason can be selected. if a valid ID is entered, the blockage reason is filled automatically. Any value can be entered as ID, due to downward compatibility, there is no check .
Blockage reason	Description of blockage reason. (Remark).

Additional fields can be displayed using window settings.

© 2026 Boyum IT Solutions A/S

Register measuring values

Measured values and attributes can be registered. Blockage reason, valuation and up to 4 additional fields.

Control

Enter data on the lower part of the window. Use *Cursor up / down* and *ENTER* to jump in the list to the next or previous position.

- Graphical display of measured values

  In the entry area measurement value registration is visualized, similar to scales – ***see*** image above. The minimum value is indicated on the left, and the maximum value is displayed on the right. Once set, the target value appears between them.
  In the red-green bar the value is visualized: Green area = OK, red area = faulty.
  The rectangle above shows the current measuring value. If green, the value is within range, if red, it is outside the set range.

The graphic is hidden for texts and attributes. Also, if no minimum or maximum values are given, the graphic is hidden.

Field	Meaning
Value	- Enter measured value If the value fits the target (between minimum and maximum), the field is set to "OK". If the Four-eyes principle is disabled, the measurement position is released immediately. Additionally, the measurement position also stores the employee, the work station and time and date at which the values were registered.
OK	- Measured value - Status If a measured value is entered between maximum and minimum, OK is set automatically. If the value is outside the allowed range, the field OK is disabled. In QC-inspection plan - Measurement position you can store, whether it is possible to set "OK" manually **Attributes**

© 2026 Boyum IT Solutions A/S

	Registering attributes (= no default range of values) the field "OK" is changed manually. Special case: If minimum and maximum values = 0, this will be interpreted as if no values were set. The maximum value is then 99999, any numeric positive entry will lead to "OK". **Release** The measurement position can only be released if "OK" is active. If in QC-inspection plan the setting "Disable additional release" is enabled, setting the OK field, release is automatically enabled.
Release	Release measurement position Following the Four-eyes principle a second user can release the measurement position. The user who entered the measured value may not release the measurement position. Exception: The Four-eyes principle was disabled in the inspection plan. In this case, the measurement position is released automatically, after marked as "OK". Release not possible: - If a blockage reason was stored - this prevents the release. ***See*** Blockage reasons. - Sample has been released already (Release 2). - QC-order has been closed already. - The current user registered the measuring value (Four-eyes principle).
Blockage reason	Blockage reason. For each measurement position a blockage reason can be stored. Enter the possible blockage reasons. You can only select blockage reasons that match the QC-inspection

© 2026 Boyum IT Solutions A/S

	plan group or have no entry in the group and they need to be visible in the respective area (Order, sample, measurement). Blockage reasons may have further effect. ***See*** Blockage reasons After selecting a blockage reason "OK" will be disabled if "Block release" was activated in the blockage reason. If a measured value or an attribute has already been stored, the entry is checked and if necessary, "OK" is set again.
Valuation	Valuate Measurement position. Valuation reasons are setup under Valuation You can only select valuation reasons which match the QC-inspection plan group or which have no entry there. Furthermore, they need to be visible in the respective area (Order, sample, measurement).
UDF1 ... UDF4	Free definable fields are set up in Configuration wizard.

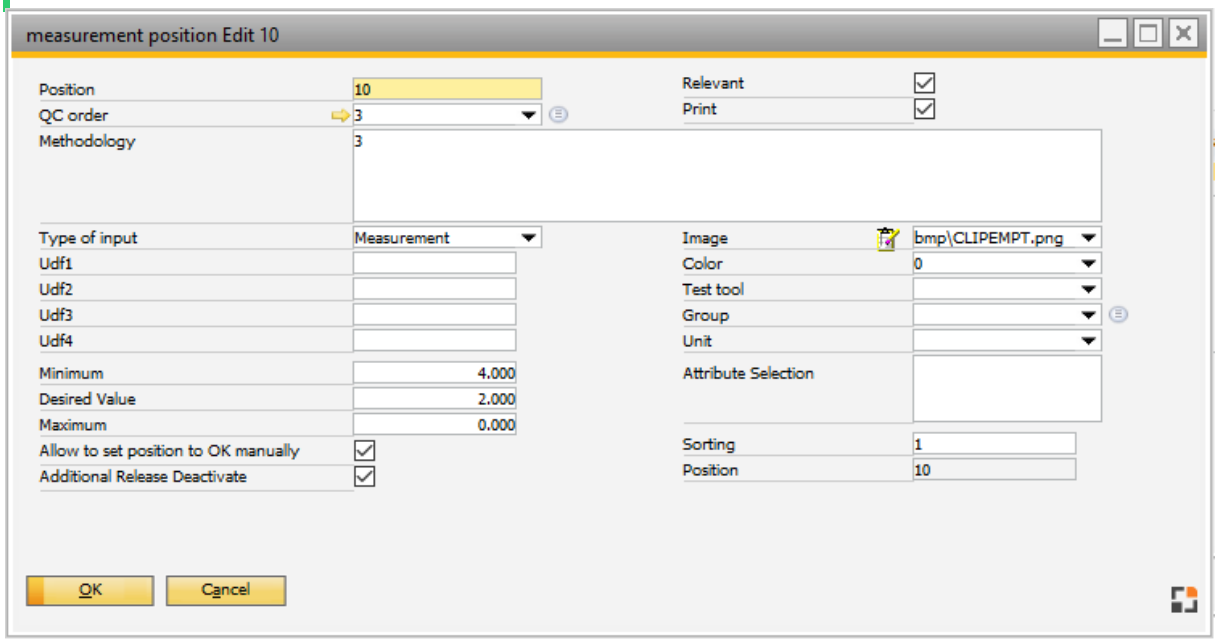
Functions

Field	Meaning
Update	Entered measuring values, valuations and blockage reasons are saved. Before saving, it is checked if the sample may be released. The complete release process is performed as defined in Inspection plan - Release.
Documents	Open the Documents screen, in which linked documents are displayed
Edit	Edit measurement position or create new. Create new or change a measurement position. Button is visible only if the user has the authority Change QC order. In Terminal-Mode this function is not available. ***See*** Edit measurement position
Change log	The Change Log displays all changes for the Quality Control order.

© 2026 Boyum IT Solutions A/S

In this window a measurement position can be subsequently changed, deleted or inserted new.
Authorizations for Edit QC order is required.
For field descriptions ***see*** QC-inspection plan - Edit measurement position.

PATH: Production > Quality Control > QC Orders > **Open** an entry > **Input by Sample** button > Double-click a sample > **Edit** a position.



Window qs_qsftpos_edit_detail.psr

Field Descriptions

Field	Meaning
Position	The list is sorted by this number. You can re-sort using Drag&Drop. Alphanumeric characters are allowed, position numbers can be assigned twice.
Batch/Serial	Batch/Serial number
QC-Order	Short description for the measurement position. Right-click to select a default from the default texts. After selection, the method description is also transferred. ***see*** Manage default texts.
Methodology	Long description. Edit by double-clicking or clicking the "**Description**" button.
Type of input	Type of entry. **Available types:**

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td>
<table>
<tr><td>Measurement</td><td>Minimum / Maximum values are considered. The "measurement" tab is displayed. The measured value is OK if it is between the minimum and maximum.</td></tr>
<tr><td>Attribute</td><td>A measuring position can be marked as "OK"
Values can be entered, but will not be checked.
Example:
Check of color
Enter "red" and "OK" for confirmation.</td></tr>
<tr><td>Text</td><td>Position is only displayed. No confirmation or entry.</td></tr>
</table>
Attribute: you can only specify whether it is okay, and include information.
Measurement: Minimum / maximum values are considered.
Text: Only a header line.</td></tr>
<tr><td>Desired value,
UoM</td><td>Specify target value and unit of measure (mm, kg, % etc., UoM is mandatory)</td></tr>
<tr><td>Minimum / Maximum</td><td>Enter minimum and maximum value for a measurement point.
The measurement position is released when the measured value lies within this range.

Only possible for entry type "measurement" not for "attribute" or "text".

If no value is entered, "allowed to set OK manually" will be activated automatically at checking.</td></tr>
<tr><td>Relevant</td><td>This option must be activated if this measuring point is relevant for the release of the test plan.
This option is always deactivated for type "Text".
Note: For automated release at least one relevant position is required.</td></tr>
<tr><td>Print</td><td>This option must be activated if the measuring position should</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

	be printed in a quality control protocol.
Test tool	A test tool can be selected. Only information – no effect. No reservations or dispatches. ***see*** Tool administration
Condition	Only inserted if the stored value matches the selected values in query. ***see*** conditional testing positions
Item rule	Measurement position is only inserted if this field is empty or matches the value entered in Item QC-link. The measurement position can be hidden or displayed depending on the item or document. ***See*** Item QC-link - Measurement position - Rule.
Manual OK	Determine whether the measurement position may be set to "OK" manually. If the option is active, the icon "OK" is displayed in the Measurement sample . There, it is possible to set the position to "OK" even if the measured value is out of allowed range. For type of entry "Attribute" this option is always active. Entering values, this option is automatically enabled if no minimum or maximum value was defined.
Additional release Deactivate	Disables the four-eye principle. By default, each measurement position needs to be checked and released by a second person. Four-eye principle Important: The person who entering the measured values is not allowed to release them, as well. If this option is disabled, the measurement position is automatically released, after the field "OK" was set. Electronic signature is not supported at this level.

Right window section:

© 2026 Boyum IT Solutions A/S

Field	Description
Picture	Define an image to appear in the list view of the browse window.
Color	Define a color with the help of sliders for the position to be displayed in the list view of the browse window.
Test tool	Select a Test tool from the dropdown menu. ***See*** Tool Administration.
Group	Select a Quality Control group from the dropdown menu.
Unit	Unit of measure
Attribute Selection	Add any attributes
Sorting	Sorting number
Position	Position number

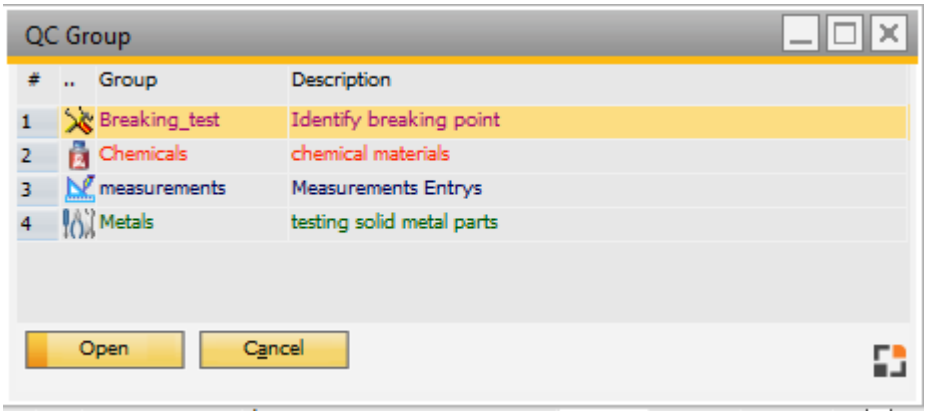
Functions:
Remove: Delete current measurement position.

See
Quality control orders
Quality control order - Item master - Quality control - QC-inspection plan
Register per sample
Register measurement position
Edit measurement position
Register per test
Register measured values for all samples
Documents
Transfer

In this window you can set up quality control groups.
By setting a QC group you can sort the different testings according to different categories, based on material, measurement type etc.

PATH: Production > Quality Control > QC Orders > **Open** an entry > **Input by Sample** button > Double-click a sample > **Open** a position > Click on Group

© 2026 Boyum IT Solutions A/S



Window qs_qsgroup_browse.psr

Field descriptions

Field	Description
Group	The name of the QC group
Description	Short description for the group
Edit	Edit the selected QC group
End	Close the window
New	Add new QC group
Delete	Delete QC group
Last messages	Right-click function to open the last messages window.

Functions:

Add: Create a new QC group.

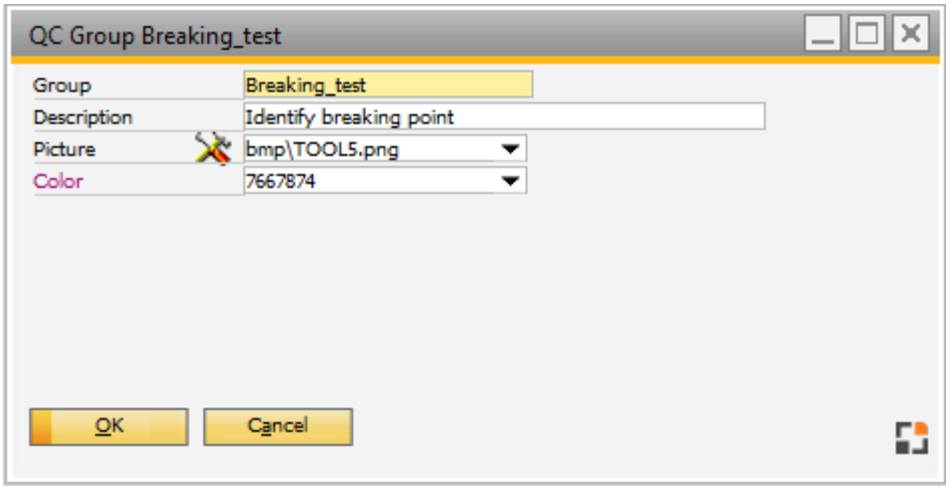
Remove: Delete current QC group.

back to Edit measurement samples or Input per sample

In this window you can edit or add new quality control groups.

PATH: Production > Quality Control > QC Orders > **Open** an entry > **Input by Sample** button > Double-click a sample > **Open** a position > Click on Group > **Open/Add**

© 2026 Boyum IT Solutions A/S



Window qs_qsgroup_edit.psr

Field descriptions

Field	Description
Group	Define the name of the group
Description	Add a description
Image	Define an image that appears beside the group name in the QC group list.
Color	Define the color in which group information is displayed in the QC group list.

back to QC Groups

Edit measurement samples

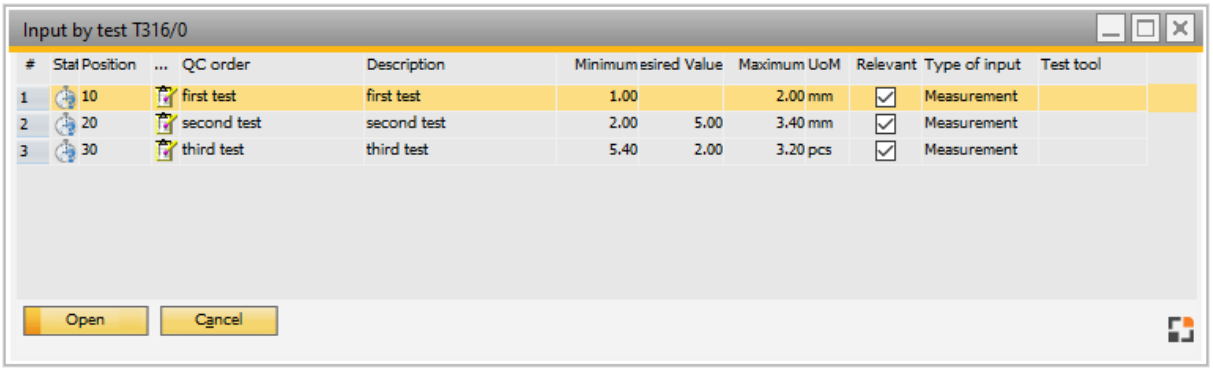
Input per sample

8.11.1.1.2 Input per test

Use this method to process all measurements for all samples subsequently.

PATH: Production > Quality Control > QC Orders > **Open** an entry > **Input by test** button

© 2026 Boyum IT Solutions A/S



Window qs_qsftpos_browse.psr

Measurement positions are displayed in the list. If one position is selected and edited, all samples are displayed for this measurement position in the window Measurement per test.
Grouped by position text, even if measurement positions are different. Please make sure the measurement positions do not differ too much within one sample.
Window is dynamically adjustable. Templates can be stored. The authorization for QC-order is required.

User example:
You have a QC order with 4 Measurements positions.
There is a Goods receipt with 10 Serial Numbers, and you have 1 Sample per 1 Serial Number.
Produce 10 Samples / Measurements

TO DO: Create Measurement 1 on all 10 Serial Numbers and then Measurement 2... on all 10 Serial Numbers.

Field	Meaning
Status	Registration status of measurement position.
Position	Alphanumeric text of measurement position.
Icon	Bitmap of measurement position.
QC order	QC order name.
Minimum/Desired/Maximum EH	Minimum, Desired and maximum values and registration unit.
Relevant	Is the registration relevant for release?
Type of entry	Text, Measurement, attribute.
Test tool	Used tool.
UDF 1..4	Display UDFs.

© 2026 Boyum IT Solutions A/S

Additional fields can be displayed using window settings.

Functions

Button	Meaning
Open	Open Enter measured values window for all values of all samples of for this position.
Change log	The Change Log displays all changes for the Quality Control order.

Note: Registering measured values and release is performed by using the personnel number. A linkage between User and Personnel number is mandatory.

See our QC by Test WebApp dedicated to this function.

QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

Quality control orders

Quality control order - Item master - Quality control - QC-inspection plan

Register per sample

Register measurement position

Edit measurement position

Register per test

Register measured values for all samples

Documents

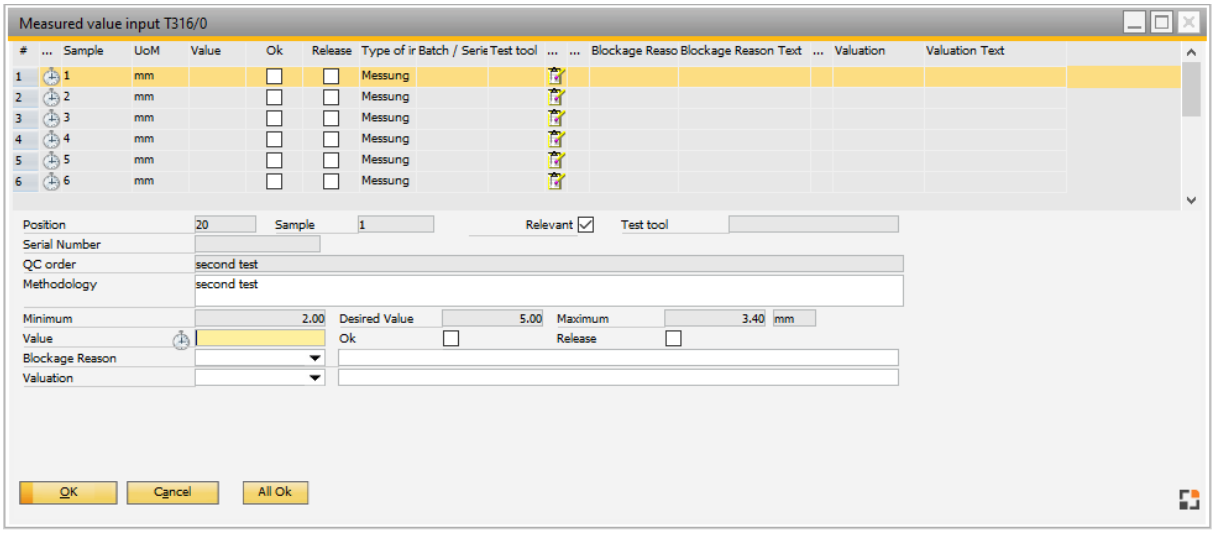
Transfer

8.11.1.1.2.1 Enter measured values

Here you can enter the measured values, OK-message, blockage reason ID for all samples.

PATH: Production > Quality Control > QC Orders > **Open** an entry > **Input by test** button > Double-click an entry

© 2026 Boyum IT Solutions A/S



Window qs_qsftpos_allestichproben_edit.psr

The window is split in the following parts:

UPPER section: List of samples per measurement position

Field descriptions

Field	Meaning
Status (...)	An icon indicates the status of the sample.
Sample	Position number
UoM	Unit of Measure
OK	If the entered Value falls between Min/Max, this check mark is automatically activated.
Release	Check mark indicating if sample can be released.
Type of Input	Type of entry. **Available types:** Measurement: Minimum / Maximum values are considered. The "measurement" tab is displayed. The measured value is OK if it is between minimum and maximum. Attribute: A measuring position can be marked as "OK" Values can be entered, but will not be checked.

© 2026 Boyum IT Solutions A/S

	<table><tr><td></td><td>***Example:*** Check of color Enter "red" and "OK" for confirmation.</td></tr><tr><td>Text</td><td>Position is only displayed. No confirmation or entry.</td></tr></table> **Attribute**: you can only specify whether it is okay, and include information. **Measurement**: Minimum / maximum values are considered. **Text**: Only a header line.
Batch/Serial	Batch/Serial number
Blockage reason	Stored blockage reason.
Valuation	Stored valuation.
Blockage/Valuation text	Enter further information for Blockage/Valuation reasons.

Windows settings are supported.

Change Log: The Change Log displays all changes for the Quality Control order.

LOWER section: Register Measurement position for one sample

Field Descriptions

Field	Meaning
Position	The list is sorted by this number. You can re-sort using Drag&Drop. Alphanumeric characters are allowed, position numbers can be assigned twice.
Batch/Serial number	Batch/Serial number
QC-Order	Short description for the measurement position. Right-click to select a default from the default texts. After selection, the method description is also transferred. ***see*** Manage default texts.
Methodology	Long description. Edit by double-clicking or clicking the "Description" button.
Desired value, UoM	Target value and unit of measure (mm, kg, % etc., UoM is mandatory)
Minimum / Maximum	Enter minimum and maximum value for a measurement point.

© 2026 Boyum IT Solutions A/S

	The measurement position is released when the measured value lies within this range. Only possible for entry type "measurement" not for "attribute" or "text". If no value is entered, at check "allowed to set OK manually" will be activated automatically.
Relevant	This option must be activated if this measuring point is relevant for the release of the test plan. This option is always deactivated for type "Text". Note: For automated release at least one relevant position is required.
Test tool	A test tool can be selected. Only information – no effect. No reservations or dispatches. ***see*** Tool administration
Value	Enter measured value in this field. If the value falls in the range between Min/Max, a green check icon appears left of the entered value and in the status marker field in the upper list.
OK	If the entered Value falls between Min/Max, this check mark is automatically activated. You can manually deactivate the flag, which also deactivates the Release flag.
Release	If the entered value is "OK", the Release flag is also activated. The flag cannot be deactivated manually.
Blockage Reason	Define a blockage reason for the sample.
Valuation	Define a Valuation reason for the sample.

Functions

Button	Meaning
Add	Create a new sample with all measurement positions.
Next/Preceding entry	Switch to the next/previous measurement from the Input by test browse window.
Change Log	The Change Log displays all changes for the Quality Control order.

© 2026 Boyum IT Solutions A/S

Update	Save measurements and check release. ***See*** Measurement sample.
All OK	Set all samples to OK. Button is displayed only, if in measurement position the option "set OK manually" was activated.

See

Quality control orders

Quality control order - Item master - Quality control - QC-inspection plan

Register per sample

Register measurement position

Edit measurement position

Register per test

Register measured values for all samples

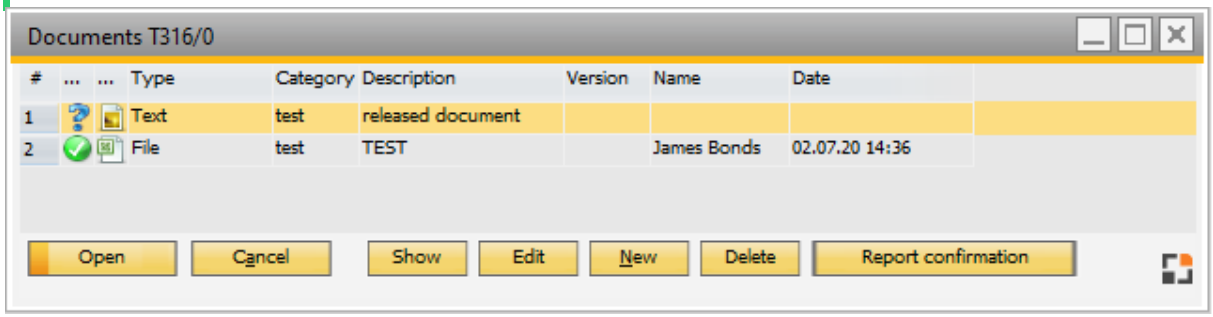
Documents

Transfer

8.11.1.2 QC documents

Documents linked to the QC-order are displayed in this window. You can open and confirm them. For further information ***See*** QC-inspection plan – Edit documents

PATH: Production > Quality Control > Samples > select an entry > **Samples** OR **Measurement** > select an entry > **Documents** button.



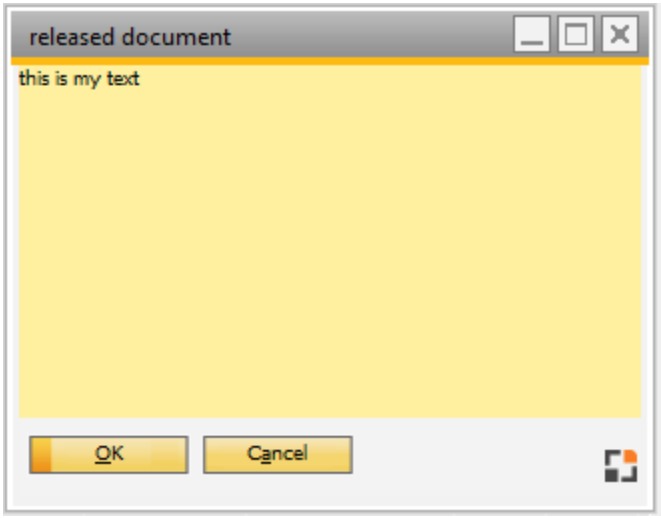
Window qs_ftattachment_browse.psr

Button	Meaning
...	Icon of Reading / Confirmation status.

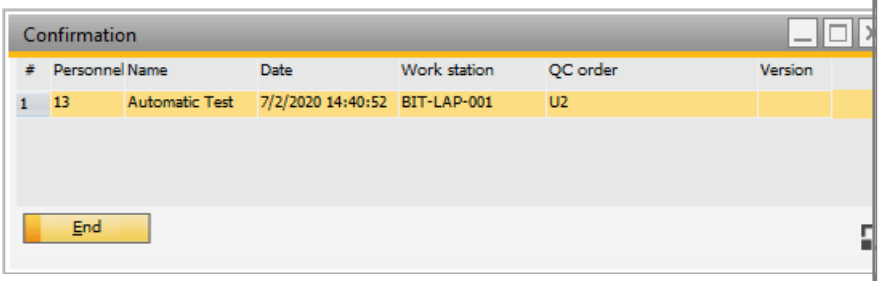
© 2026 Boyum IT Solutions A/S

Image	Icon linked to the document.
Type	Document type. ***See*** Type.
Category	Document Category.
Description	Document description.
Version	Document version.
Confirmation, Name, Date, Station, Version	Status of confirmation, information.

Functions

Function	Meaning
Show	Display attached document (or double-click on the line). - File: The **show** button opens the attached file. **IMPORTANT**: A file needs to be located in a folder accessible by all employees. Programs to view the file need to be installed on every station. Beas does not display the content. - Text: The information shows what was saved in the Text field of the Attachment Edit window.  *Window system_textedit.psr*
Edit	Change attached documents. ***See*** Document edit.
Cancel	Close window without changes.

© 2026 Boyum IT Solutions A/S

Delete	Delete attached document. Documents stored in QC-inspection plan cannot be deleted.
New	Enter new document by indicating the path. ***See*** Document edit.
Report confirmation	Press the button and an information window appears, displaying the following details: - Name of the opener of the document, - the time and date of opening, - work station, - QC order number.  *Window qs_qsartikelattachment_confirm.psr*

See

Quality control orders

Quality control order - Item master - Quality control - QC-inspection plan

Register per sample

Register measurement position

Edit measurement position

Register per test

Register measured values for all samples

Documents

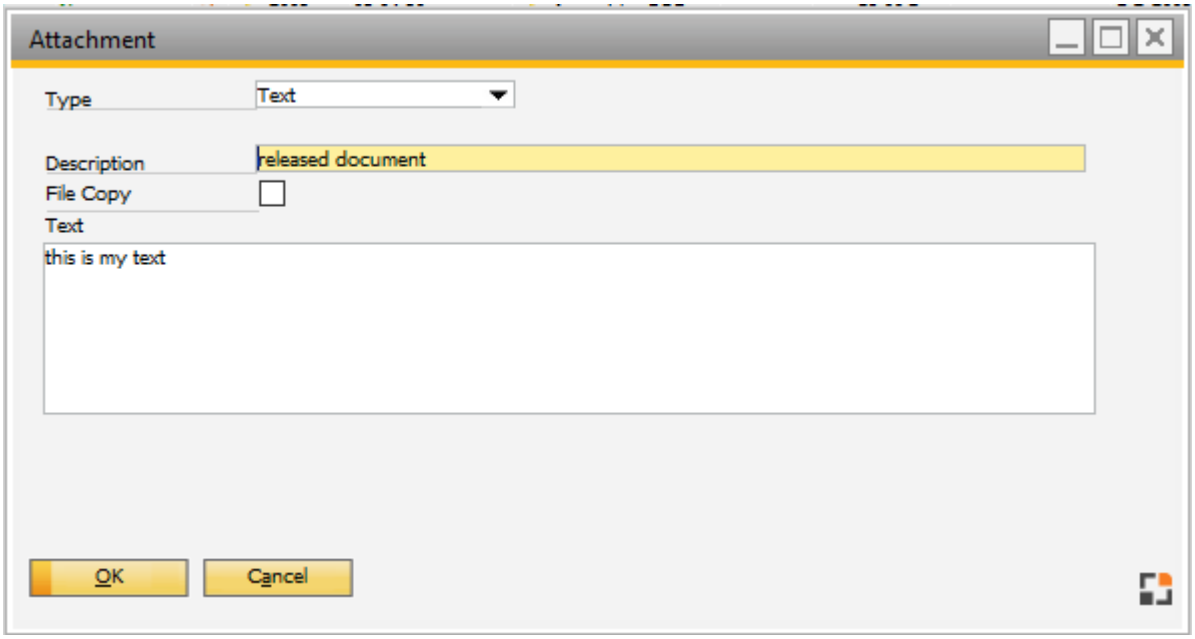
Transfer

8.11.1.2.1 Document edit

In this window you can edit or create new attached documents.

PATH: Production > Quality Control > Samples > select an entry > press **Samples** OR **Measurement** > select an entry > press **Documents** > press **Open/Add**.

© 2026 Boyum IT Solutions A/S



Window qs_ftattachment_edit.psr

Field descriptions

Field	Description
Type	Attachment type: - Text: text can be entered directly in the Text field. ***See*** also Text and Type Text. - File: Select a file that you wish to link to the QC order. **IMPORTANT**: A file needs to be located in a folder accessible by all employees. In case of a file attachment, the **File name** browsing field appears. ***See*** Type, File settings
Description	Description for the attachment
File Copy	Activate this radio box if you wish to modify the file and create a refreshed copy on your system. If this option is not active, only a reference is inserted. ***See*** QC Inspection Plan - Document edit **IMPORTANT**: A file needs to be located in a folder accessible by all employees. ***See*** Copy settings for QC orders

© 2026 Boyum IT Solutions A/S

Field	Description
Text	Add any information on the attached document here.

Functions:

Add: Attach new document.

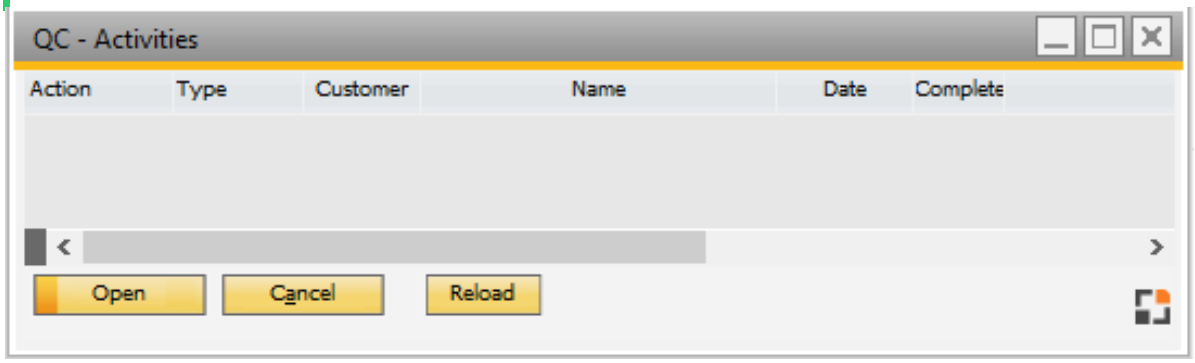
Remove: Delete current document attachment.

8.11.1.3 QC Activities

Manage all activities assigned to this QC Order, edit and create new.

For field description ***See*** SAP Business One help.

PATH: Production > QC orders > double-click/**Open** an entry > **Activities** button.



Window qc_activity_browse.psr

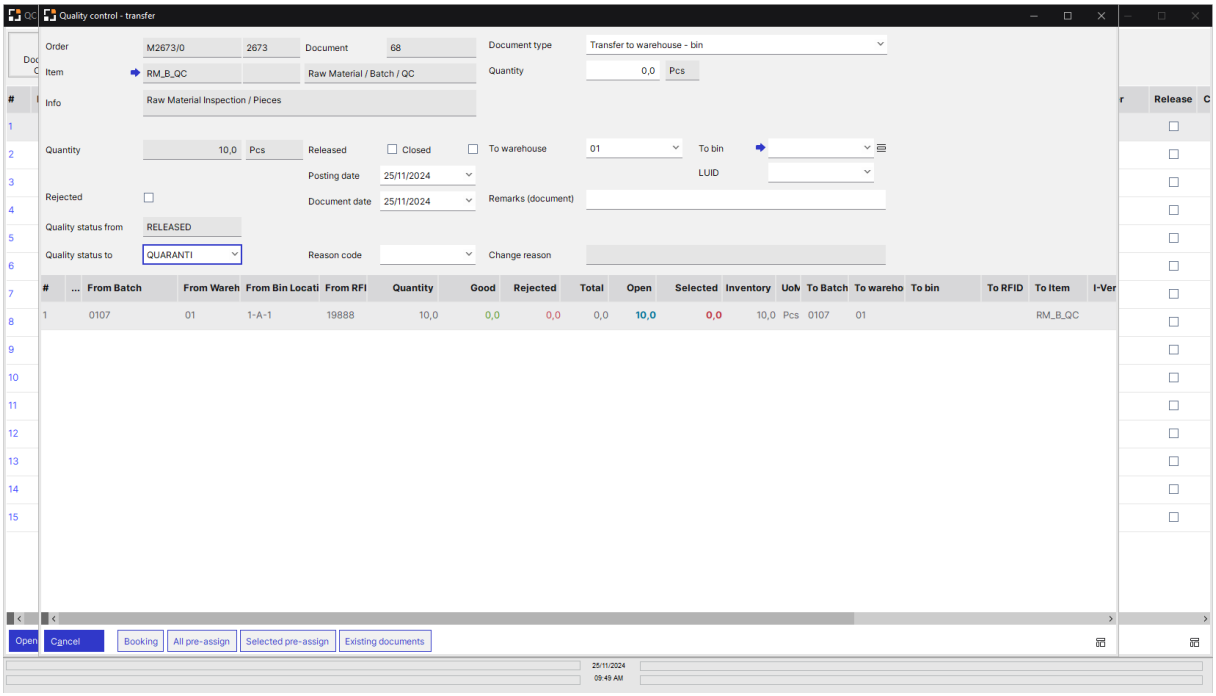
Functions

Function	Meaning
Open	Opens the selected activity.
Cancel	Close window without saving changes.
Add	Opens the window to create new activities in SAP Business One.
Reload	Reloads the window (needed after the creation of a new activity in SAP Business One).

8.11.1.4 QC Transfer

In this window goods to be checked can be transferred from the QC warehouse to the release warehouse.

© 2026 Boyum IT Solutions A/S



Window qs_transfer_header.psr

Note: The window can only be opened if the goods have been posted to a goods receipt warehouse. Alternatively, a QC inspection plan can be set up making transfer possible from any warehouse.

See QC inspection plan – Release, Warehouse master data – Type of warehouse

See our QC Transfer WebApp dedicated to this function.

QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

Authorization for QC-Order is required. ***See*** concept Work with QC-warehouse.

The booking process

A booking is always performed from the warehouse/bin location that has been posted for the quality control order.

A pure bin location transfer is performed in case of a new bin location.

A transfer transaction is performed if the target warehouse is another warehouse. A manual posting and issue is performed in case of another item or batch number.

After the complete quantity was posted, the QC-order is marked as posted. Various rules can be applied to this process.

Header details

Booking details are displayed for the entry currently selected in the lower list.

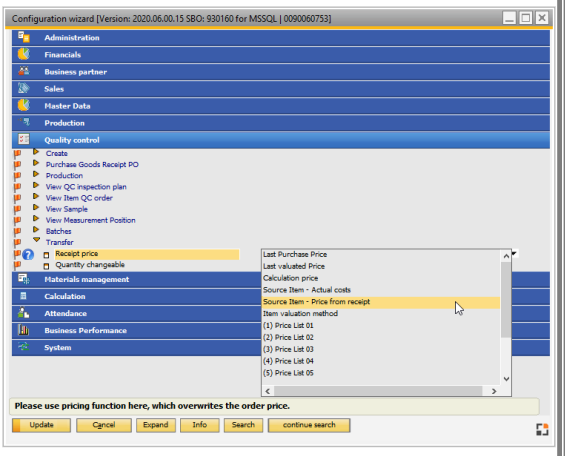
© 2026 Boyum IT Solutions A/S

List of items to be posted supports windows settings and templates.

Field	Description
Order	QC order ID. The first character indicates the document type. For details, ***see*** Edit QC orders.
Document	Unique document number. **NOTE:** **WMS Bin Warehouse – Limitation:** The function does not support source documents that contain lines with more than 1 batch.
Item	For transfer: a transfer to another item number is possible.
Info	Information text.
Quantity	Available quantity from the QC order
Released	Conditions are defined in QC-inspection plan - Release.
Closed	If the order is closed the order can no longer be edited, measured values cannot be changed, and material cannot be posted.
Posting date	
Document date	
Rejected	⊟ Post document line as scrap If the option is enabled, the item is posted or transferred as "rejected" and warehouse determination uses "scrap" type. Note: When enabled, the "Rejected" check box for the current transfer document in the bottom summary area is also enabled for the current document. ***See*** Warehouse rules
Document type	⊟ Available document types The following selections are available in the drop-down menu:

Document Type	Description
Create Transfer to Warehouse WebApp 2.1: "Transfer to Warehouse"	Transfer the Item from Quality Control warehouse to target warehouse The warehouse can be for good material or scrap (Reject = active)

© 2026 Boyum IT Solutions A/S

Document Type	Description
Create Goods Issue from current Warehouse WebApp 2.1: "Issue"	Goods are only issued Use this if you cannot use the material (scrap)
Change current item by another one (Issue Document + Receipt Document) WebApp 2.1: "Create a new item (issue and receive)	This action generates a Goods Issue document for the original item and a goods receipt for the new item. If the new item has another Unit if you activate the "Change quantity" in the Configuration wizard, you can define the quantity which you want to post out and which quantity you want to post in. **Define price for a receipt document** It is possible to define price for a receipt document (if a receipt is created) with the parameter "Receipt price":  *Window system_option_struktur.psr* **Additional, available values:** **Name** | **Description**

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Document Type</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td>Source Item – Actual Cost</td><td>The system reads price from the issue document of the original item.
Note: this option applies only to Quality Control.</td></tr>
<tr><td>Source Item – Price from entry</td><td>The system reads price of the last receipt document of the original item.
Note: this option applies only to Quality Control.</td></tr>
</table>
see Configuration wizard.</td></tr>
<tr><td>Create Purchase Return document from Current Warehouse

WebApp 2.1: "Create goods return document"</td><td>A SAP Business One purchase return document is generated. Warehouse is always the warehouse defined in the original document. This option is only available when original document is a "Goods receipt PO".
For all other kind of documents this option is not visible.</td></tr>
<tr><td>Inventory Transfer Request

WebApp 2.1: "Transfer Request"</td><td>Transfer request for an Item from Quality Control warehouse to target warehouse
The warehouse can be for good material or scrap (Reject = active)

Note: Bin-managed warehouses are NOT supported, and so these warehouses are excluded from the drop-down once this option is selected.
The option is hidden when the source warehouse is a bin located warehouse.</td></tr>
<tr><td>Change Quality Status</td><td>When this Document type is selected, the Quality Status to field is enabled to modify the quality status of the moved stock.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

	For each action you can select if the document should be generated as "Rejected" or as "Good" quantity.
Quantity	Quantity to be posted in the unit of measure.
To Quantity	Visible only if "Change current item by other one (Issue Document + Receipt Document)" document type has been selected. Here it is possible to define the quantity for the new item. The UoM is predefined.
To Item	Visible only if "Change current item by other one (Issue Document + Receipt Document)" document type has been selected. Here it is possible to define another item code for this item.
I-Version	Selectable item version in case of an I-version-managed item. Visible only if "Change current item by other one (Issue Document + Receipt Document)" document type has been selected.
To Warehouse	Target warehouse: Defined by Warehouse rules. Visible only if "Create Transfer to Warehouse" or "Change current item by other one (Issue Document + Receipt Document)" document type has been selected. From Beas version 9.2 PL 2 it is possible to allocate to an SAP Bin warehouse. From Beas 9.3 PL03 it is possible to allocate to a WMS warehouse. The Transfer process can be initiated from and to any of the 4 warehouse types: Default Default with bin locations SAP bin warehouse WMS warehouse
Batch/Serial	The batch/serial number(s) to be transferred. Visible only if "Change current item by other one (Issue Document + Receipt Document)" document type has been selected.
Remarks	Remarks attached to the QC order.

© 2026 Boyum IT Solutions A/S

To bin	Target bin location

Also defined in Warehouse rules

Visible only if "Create Transfer to Warehouse" or "Change current item by other one (Issue Document + Receipt Document)" document type has been selected.

IMPORTANT: Stock movement between 2 bin locations of the same warehouse is supported. WMS bin locations are supported.

Beas 2025.06

Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3)

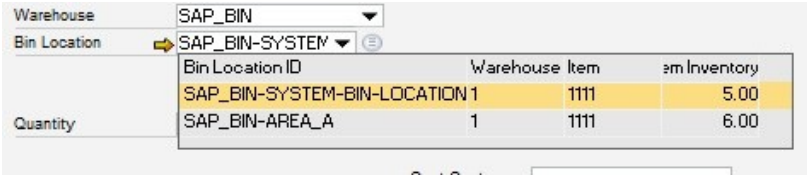
The field has the following components:

Arrow icon /

List of all bins where the item is located.

Selection (Drop-down)

A list opens to select the desired bin location.



The selected drop-down option displays the following information in receipt documents:

- Bin Location
- Warehouse Area
- First item in this bin location
- Stock of the first item in this bin location

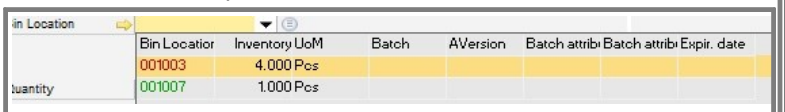
The list can be modified in the Configuration wizard.

The selected drop-down option displays the following

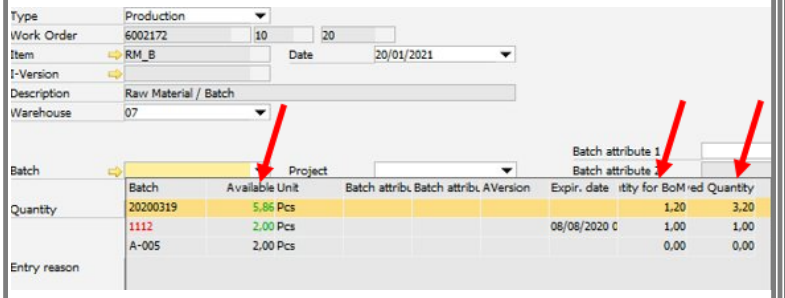
© 2026 Boyum IT Solutions A/S

information in issue documents:

- All stock information of all bin locations with batch- and serial number information.
- ⊟ Reserved Batch quantities information



The drop-down contains information on reserved quantities in 3 columns:



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking

© 2026 Boyum IT Solutions A/S

Field	Description
	types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

- Notes: Beas Bin Warehouse

  The Definition of the bin location is mandatory.

- Notes: SBO Bin Warehouse

  If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
  This is entirely managed by SAP Business One.

  Drop-down for volume or weight is not supported. Columns are always 0.

  beas 9.3 PL 2

- Notes: WMS Bin Warehouse

  Bin location is mandatory.
  Drop-down for volume and weight not supported.

- Customizing of the drop-down list in Beas 9.3 PL 2 or newer release

  This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

  The following priorities are considered:

  1. Window-related customization (`windowevent setbindropown`)
  2. General changes (`stockmanagement.src`)
  3. Settings in the Configuration wizard

© 2026 Boyum IT Solutions A/S

In the `e_bindropdownbsl` variable, the ODATA command can be defined.

It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$mask=1
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

Customization of the drop-down list in Beas 9.3 PL 1 or earlier

© 2026 Boyum IT Solutions A/S

release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

Window-specific adjustments:

Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.

Example:

```
windowevent setbindropdown
setvar=e_bindropdown=ddsql=select "BINCODE" from
"BEAS_WHSBIN" where
"WhsCode"=<e_binwhscode,dbstring> order by
"STORAGESORT"
end event
```

Note: This window event is supported in every window where the selection field is available.

General adjustment

Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.

```
file stockmanagement.src
function binreceiptdropdown
setvar=e_bindropdown=ddsql=select "BINCODE" from
"BEAS_WHSBIN" where
"WhsCode"=<e_binwhscode,dbstring> order by
"STORAGESORT"
end function
```

© 2026 Boyum IT Solutions A/S

LUID	Define LUID number. ***See*** LUID behavior settings.
Date	Valuation date for document (Transfer, issue)
Quality Status from	**WMS Integration:** The Quality Status of the item to be transferred (not editable).
Quality Status to	**WMS Integration:** Select the "Quality status to" value in the drop-down list. Only valid quality status types are available for the current quality status. **Use together with QC Transfer:** Change the quality status for the transferred stock in the new bin location. Define a value in this field, and the stock will be transferred with the new Quality Status. If no quality status is defined, the system will move the stock with the same (QS from) Quality Status.
Reason Code	**WMS Integration:** Select a QS reason code from the drop-down list. This field is only editable if the "Ask for Reason" field is also enabled in WMS. ***See*** WMS documentation.
Change Reason	**WMS Integration:** Enter additional text for the reason code. This field is only editable if the "Requires Extra Reason Text" WMS field is activated in the **WMS Organizational Structure > Reasons tab**. ***See*** WMS documentation.

Information Columns/fields in lower screen section

Fields/Columns	Description
...	Transfer status: / partly transferred / transferred completely
from warehouse	QC warehouse from which to transfer
from bin location	from which bin location

© 2026 Boyum IT Solutions A/S

Good	Previously transferred yield quantity
Scrap	Previously transferred scrap quantity
Total	Previously posted quantity
Selected	The quantity that is defined to be transferred in the current document. Note: The field only contains information for the document that is currently edited, not for already created documents.
Open	Quantity to be posted
Transfer	Quantity to be posted now Note: If the SAP Business One - approval procedure is active, the quantity will not be updated. ***See*** General settings.
Stock	Stock on goods receipt warehouse
UoM	Unit if measurement
I-Version	Item version. Note: The field only contains information for the document that is currently edited, not for already created documents.
To Item	Transfer to Item. Note: The field only contains information for the document that is currently edited, not for already created documents.
To RFID	Transfer to RFID. Note: The field only contains information for the document that is currently edited, not for already created documents.
To Warehouse	Transfer to Warehouse. Note: The field only contains information for the document that is currently edited, not for already created documents.
To bin	Transfer to bin location The selection item on the right opens the list of available bins. This window supports search and window settings. Note: The field only contains information for the document that is currently edited, not for already created documents.
Rejected	Radio box is active once it is enabled in the upper, editing area. After the document is created, the field is displayed as default

© 2026 Boyum IT Solutions A/S

	(disabled) again. Note: The field only contains information for the document that is currently edited, not for already created documents.
Document type	The type of the created document. Note: The field only contains information for the document that is currently edited, not for already created documents.

Functions

Function	Meaning
Cancel	Close the transfer window.
Booking	Booking of the selected item or batch or serial number Booking is related to document type and is performed based on the parameter defined in the Configuration Wizard. ***See*** Receipt price parameter settings. ***See*** also the description of the process above. The booking document is printed afterwards if there is a print macro "Default". ***See*** Print below.
Warehouse rules	Opens Warehouse rules window. Available in the right-click menu
All pre-assign	All quantities to be transferred are pre-allocated The goods to be transferred can be pre-allocated. All rows are pre-allocated in the required quantities for that. Additionally the warehouse for all according rows will be set to the warehouse which has been selected to "To warehouse" Use if serial number related items are to be posted and the quantity is too big for manual entry.
Selected pre-assign	Pre-allocate only marked entries
Existing Documents	Click this button to open a list of documents on all actions related to the actual transfer. A "Isql" window is opened with existing generated documents related with the current QC Transfer.

Print

© 2026 Boyum IT Solutions A/S

If you create a **transfer** document, the Macro named "default" (if existing) is executed automatically.
The parameter "e_docentry" and "e_docnum" is available. Separated by a comma, all created document numbers are available.
Created documents may be transfers, issues and receipts.
For further information ***see*** customized extensions.

- Customized extensions

The following extensions are executed:

beas 9.3 PL 3

```
windowevent pretransfer (for all document types)
```

For every created document, the system will post the following events:
Variable "e_docentry" / " e_docnum" is the reference to created document
Information of dw_2 is not deleted
It is not allowed or possible to cancel or close the running process:

```
windowevent transfercreated
windowevent issuecreated
windowevent receiptcreated
windowevent poreturncreated

windowevent posttransfer (for all document types)
```

If "pretransfer" is ended by "return failure", the process is canceled.
For posttransfer the variable "`e_docentrys`" is available, in which the created documents are available comma-separated (transfers, issues and receipts). The event is called up before the print.

Data connection
In the created transfer document the following information is stored:
`WTR1.U_beas_basetype` = QC (good quantity), QB (bad quantity)
`WTR1.U_beas_basedocentry` = BaseDocument.Docentry
`WTR1.U_beas_baseline` = BaseDocument.Linenum

The BaseDocument is goods receipt, credit note, receipt etc.
Posted items and quantites are stored in

```
beas_plandocument_line.docentry=<docentry>  = BEAS_QSFTHAUPT.DocEntry
beas_plandocument_line.doctype='QC'
```

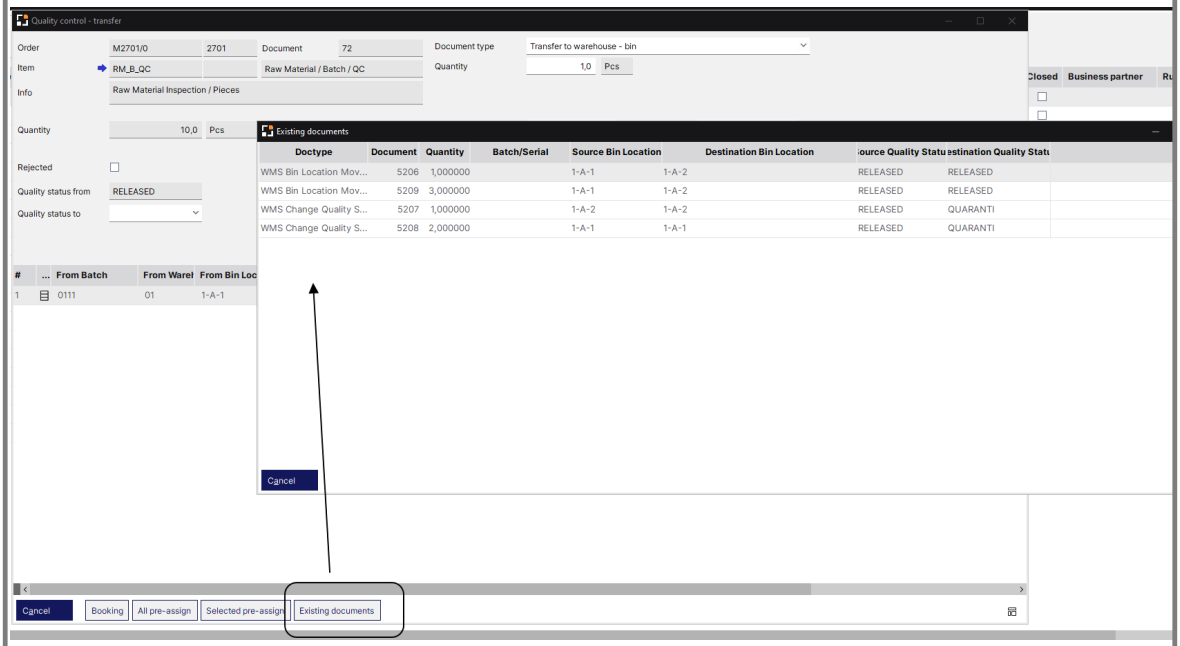
- **Linked QC Transfer documents**

© 2026 Boyum IT Solutions A/S

Documents related to the actual QC Transfer are stored - listed in this window.

WMS Integration:

The list also displays modifications on changed WMS Quality status and WMS transfers between bin locations. *Beas 2025.06*



sqlanzeige1.psr

Field descriptions

Field	Description
DocType	Document type
Document	Document number
Quantity	Transfer quantity
Batch/Serial	Batch/Serial number information
Source Bin Location	number of the bin location to transfer the item from
Destination Bin Location	number of the target bin location to transfer the item to
Source Quality Status	Quality status of the source bin location
Destination Quality Status	Quality status of the target bin location

Window configuration:

QC-Order

© 2026 Boyum IT Solutions A/S

Details on the current entry

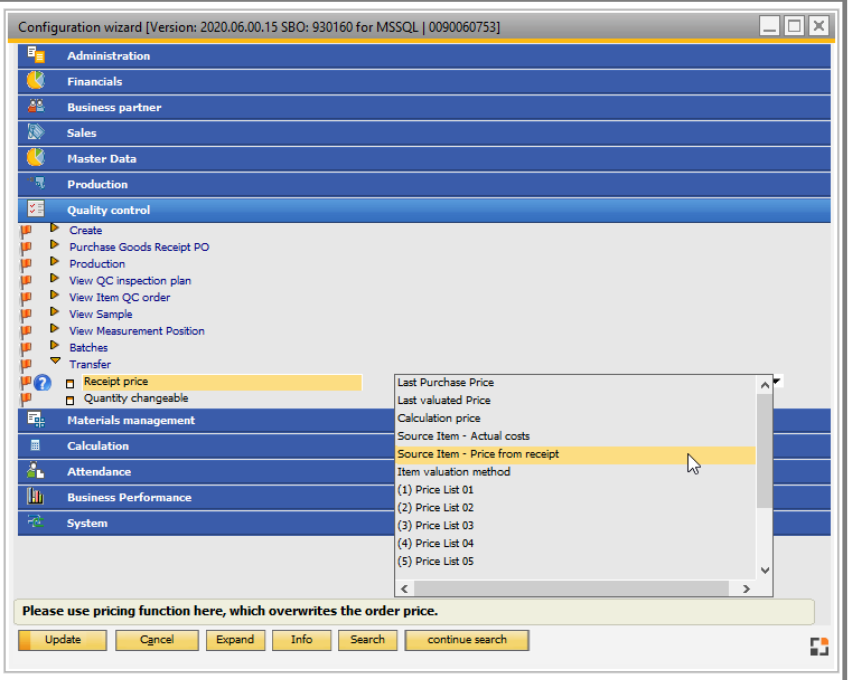
List

Functions

8.11.1.4.1 QC Document Type

Document Type	Description
Create Transfer to Warehouse WebApp 2.1: "Transfer to Warehouse"	Transfer the Item from Quality Control warehouse to target warehouse The warehouse can be for good material or scrap (Reject = active)
Create Goods Issue from current Warehouse WebApp 2.1: "Issue"	Goods are only issued Use this if you cannot use the material (scrap)
Change current item by another one (Issue Document + Receipt Document) WebApp 2.1: "Create a new item (issue and receive)	This action generates a Goods Issue document for the original item and a goods receipt for the new item. If the new item has another Unit if you activate the "Change quantity" in the Configuration wizard, you can define the quantity which you want to post out and which quantity you want to post in. **Define price for a receipt document** It is possible to define price for a receipt document (if a receipt is created) with the parameter "Receipt price":

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Document Type</th><th>Description</th></tr>
<tr><td></td><td>


Window system_ option_ struktur.psr

Additional, available values:
<table>
<tr><th>Name</th><th>Description</th></tr>
<tr><td>Source Item – Actual Cost</td><td>The system reads price from the issue document of the original item.
Note: this option applies only to Quality Control.</td></tr>
<tr><td>Source Item – Price from entry</td><td>The system reads price of the last receipt document of the original item.
Note: this option applies only to Quality Control.</td></tr>
</table>
see Configuration wizard.
</td></tr>
<tr><td>Create Purchase Return document from Current Warehouse

WebApp 2.1: "Create goods return document"</td><td>A SAP Business One purchase return document is generated. Warehouse is always the warehouse defined in the original document. This option is only available when original document is a "Goods receipt PO". For all other kind of documents this option is not visible.</td></tr>
<tr><td>Inventory Transfer Request</td><td>Transfer request for an Item from Quality Control warehouse to target warehouse
The warehouse can be for good material or scrap (Reject = active)</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

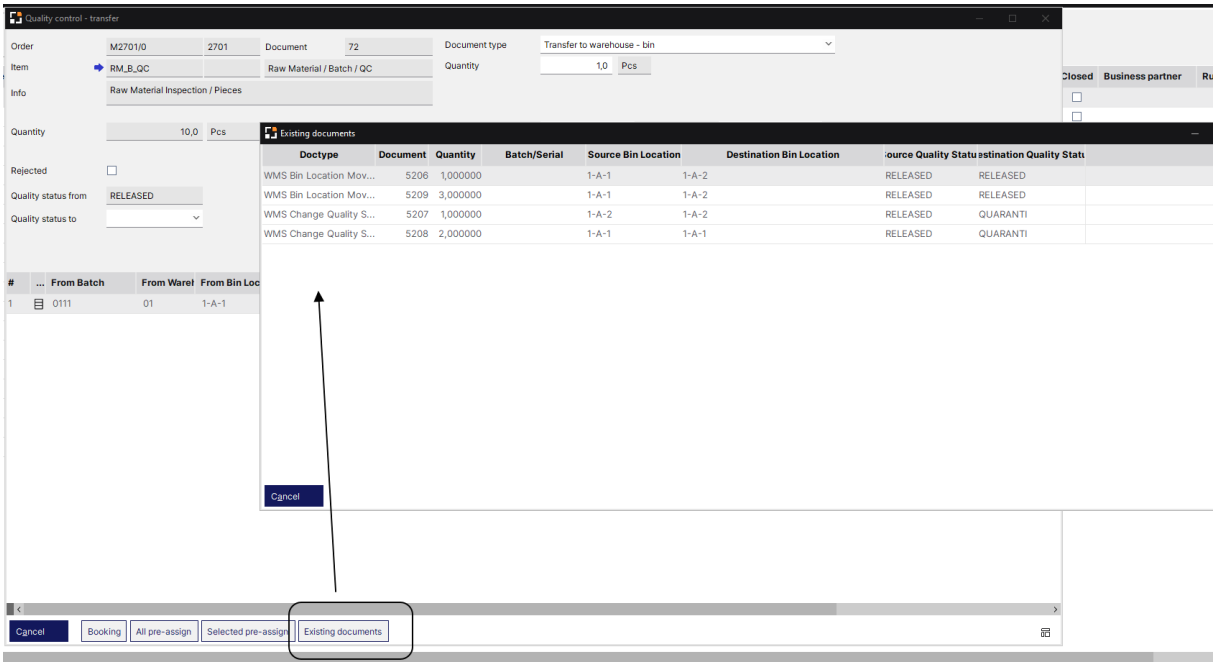
Document Type	Description
WebApp 2.1: "Transfer Request"	**Note:** Bin-managed warehouses are NOT supported, and so these warehouses are excluded from the drop-down once this option is selected. The option is hidden when the source warehouse is a bin located warehouse.

8.11.1.4.2 Existing documents

Documents related to the actual QC Transfer are stored - listed in this window.

WMS Integration:

The list also displays modifications on changed WMS Quality status and WMS transfers between bin locations. *Beas 2025.06*



sqlanzeige1.psr

Field descriptions

Field	Description
DocType	Document type
Document	Document number
Quantity	Transfer quantity

© 2026 Boyum IT Solutions A/S

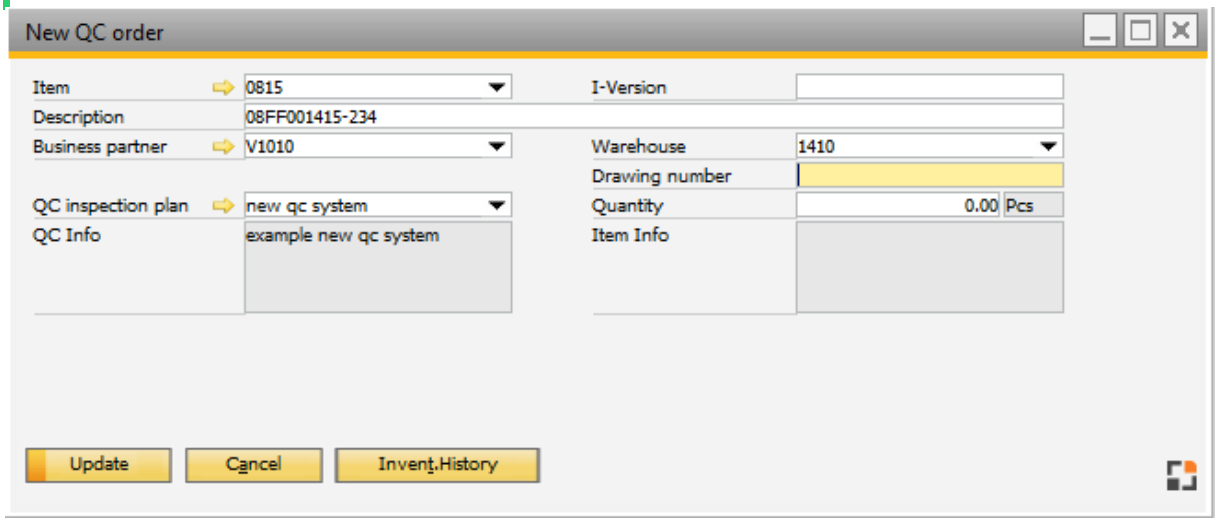
Field	Description
Batch/Serial	Batch/Serial number information
Source Bin Location	number of the bin location to transfer the item from
Destination Bin Location	number of the target bin location to transfer the item to
Source Quality Status	Quality status of the source bin location
Destination Quality Status	Quality status of the target bin location

8.11.1.5 New QC Order

Create a new QC order without any reference to a document. Required authorization: writing rights on QC orders

Authorization: writing access on QC orders required.

PATH: Production > Quality Control > QC order > **Add** function.



qc_auftrage_new.psr

Field	Description
Item	QC order for item. Note: Only inventory managed items are supported. Non-stock items are not supported.
I -Version	Item version / variant
Description	Item description
Business partner	Supplier or customer
Batch	☐ Reference to batch number

© 2026 Boyum IT Solutions A/S

	- Visible only for batch related items. Upper and lower cases of the batch are checked and corrected automatically. If the batch is unknown, any number of quantity can be entered. If selecting the batch from the drop-down only the quantity which is in stock can be entered. An explanatory note is issued. The created batch and serial number (B=base type, base order= batch number) stored in the created QC order is displayed under the tab "Origin". This makes assignment possible for unknown batches.
Serial number	Reference to serial number – visible only for serial-managed items
Warehouse	QC order refers to warehouse... (Filled automatically)
Drawing number	Drawing number of the item
QC-inspection plan	Determines which QC-inspection plan to be used. If a QC-inspection plan is stored in the item, it is edited automatically
Quantity	Quantity to be checked (max. entry=available quantity)
QC Info	Information from QC-inspection plan (view only)
Item Info	Information from item - Quality control (view only)
UDF1...3	Freely definable UDF's The stored values will be used; otherwise the content from the QC-inspection plan is taken into consideration.

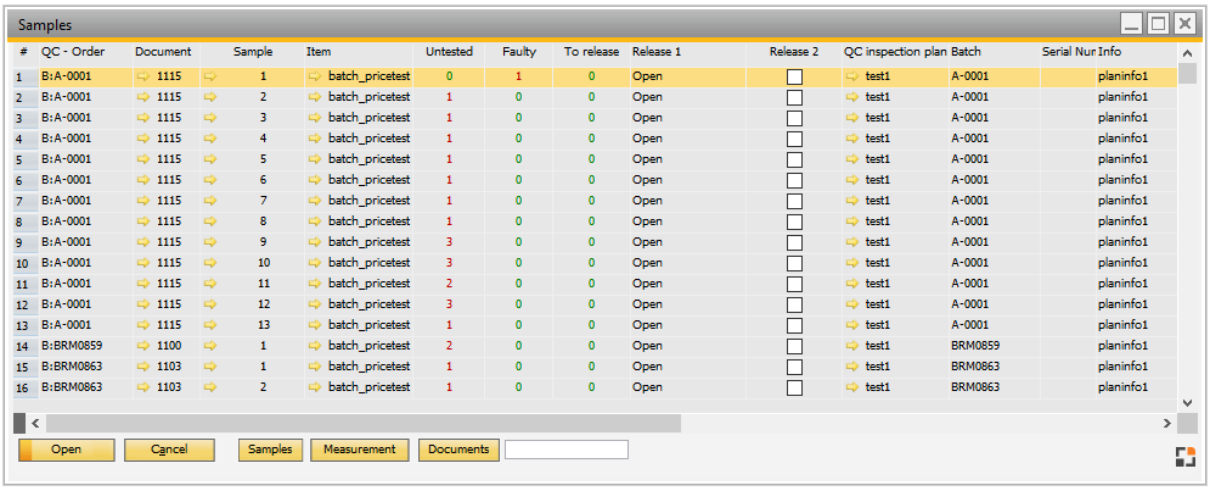
8.11.2 Samples

This list shows all open samples of all QC-orders. QC-order, documents and measurements can be edited there.

Releasing samples is not possible in this window, and you should use the "Edit" button in (QC-Order) – Register per sample.

PATH: Production > Quality Control > Samples

© 2026 Boyum IT Solutions A/S



Window qs_qsftmessung_report.psr

For field descriptions ***see*** Register per sample.

Window settings and Templates are supported.

Function

Button	Meaning
Open	Opens the QC-order.
Measurement	Opens window Register measurement position for the currently selected sample.
Documents	Opens the Documents window for the currently selected QC-order.
Samples	Opens the Register sample window in which all the sample entries of the selected QC order are displayed.
Search	Opens the search window where can search using QC order, sample, Item, batch, inspection plan, etc.

See

Quality control orders

Quality control order - Item master - Quality control - QC-inspection plan

Register per sample

Register measurement position

Edit measurement position

Register per test

Register measured values for all samples

Documents

© 2026 Boyum IT Solutions A/S

Transfer

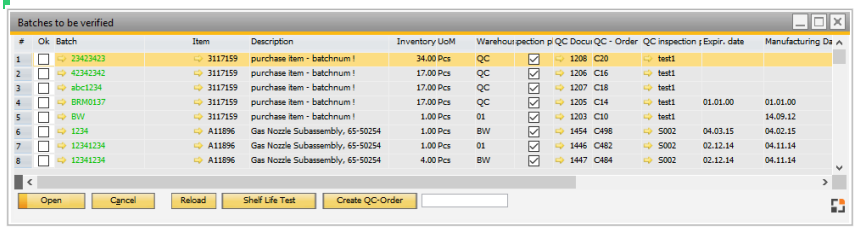
back to QC orders

8.11.3 Batches to be verified

The "Batches to be verified" list includes all batch items that are not released. This status is set e.g. on entry from goods receipt or production receipt (if configured accordingly), or if a batch is set to "not released" manually in SAP Business One. Blocked batches are not displayed.

If there is a QC plan for the batch, the batch is displayed in green. Columns are dynamically adjustable, (Window settings) UDF and templates are supported.
If an entry is edited, a QC order is created automatically if it is not already in the system. If no inspection plan is stored, the entry cannot be edited. If a QC order already exists, it is opened.

PATH: Production > Quality Control > Batches to be verified



Window qs_oibt_browse.psr

Idea of this window:

- Changing the status of all released batches to "not accessible", if Expiry date is reached or exceeded.
- Creating QC order for all "not accessible" batches. With the QC order you can check the Batches and define a new Expiration date.

Field	Meaning
OK	This flag is active if it is possible to create QC order automatically. Activate this if you want to create a QC order with the **Create QC-Order** button.

© 2026 Boyum IT Solutions A/S

	It is not possible to activate this if a QC order exists in the system or no QC inspection plan is defined. Activate all rows with right-click on title.
Batch	Batch number. The yellow arrow opens detailed information on the batch. green: QC order exists red: No QC Inspection plan is defined
Item	Item number. Orange arrow opens the item master.
Description	Item description
Inventory	Current stock
Warehouse	Warehouse in which the item is stored.
QC DocNumber / QC Order	Number of QC order if available with the yellow arrow you can open the existing QC Order.
QC inspection plan	Number of QC inspection plan.
Expir. date	Expiration date
Manufacturing date	Manufacturing date
Date of permission	Date of approval
Location	Additional Information
Batch details	Info
Purchase info	Info

Functions

Function	Meaning
Add	Open window "Create new QC Order". Only available if no open QC order exists
Update/Reload	The complete list is updated.
Open	Open the existing QC order. Only visible if QC order exists in the system.
Shelf life test	The system checks whether the shelf life date of batches has expired and changes Batch Number to "not accessible" This function checks all released batches which are currently in stock. Only if Expiration date is defined Only if on stock

© 2026 Boyum IT Solutions A/S

	If you start this function, the program asks for "Includes number of days" For ***example***, if you enter 5 days, all batches are "not accessible" with a shelf life date that has passed already or will pass within the next 5 days. Note: In the old Version, the system created the QC order automatically . From *Beas 2020.08* the system does not create QC orders with this function. If released after a quality control check, the expiration date is set to new. (***see*** Item master - Batch - Shelf life in days) Check from manufacturing date (Compatibility mode) A second udf field "U_beas_haltpark2" is existing. In the standard solution this field is not visible, but in list of Item UDF available. Second option is to check by manufacturing date + "Shelf life in days 2". In the standard version this field is not available. But you can fill this field "OITM"."U_beas_haltbark2". If this field is filled and manufacturing date + "OITM"."U_beas_haltbark2" in calender days < today - "include number of days" and a expiration date is defined in the batch, the system changes the status of these batches to "not accessible". In this case the expiration date is ignored. In this way you can define a max. expiration date.
Create QC-order	Create QC Order for all batches with the following rules A QC order is created for all batches which - is in this list - has a QC Plan linked to it

© 2026 Boyum IT Solutions A/S

	- has The flag in field "OK" activated. With a right-click on the title you can mark all entries
Search field	Entry field for free search.

Additional settings in Configuration Wizard determine the behavior of batches.

see

Configuration wizard Quality control

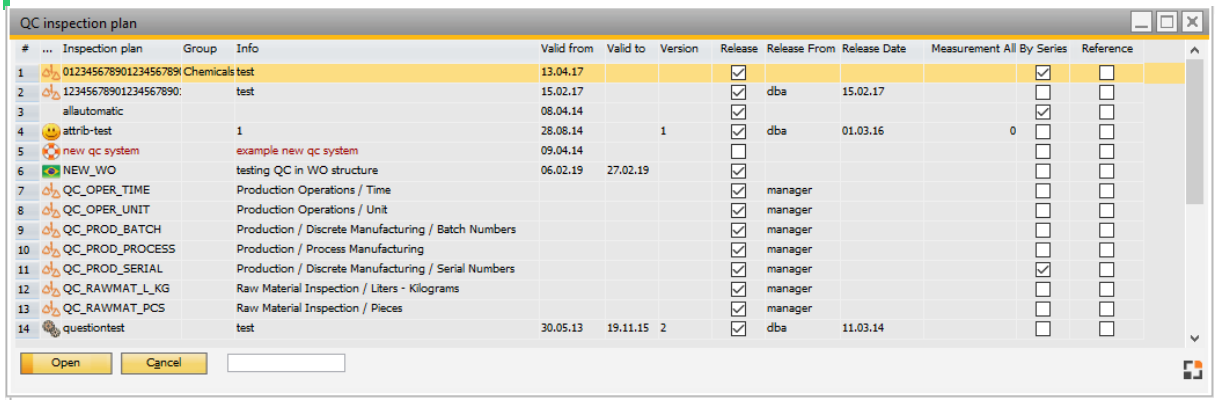
Basics quality control

back to QC orders

8.11.4 QC inspection plan

Inspection plans are defined in this window. They contain measurement methods, and default values and actions are defined what to do in case if requirements are not met.
These inspection plans can be stored and edited in **item master > Quality control > QC-inspection plan** or in routing.

PATH: Production > Quality control > QC inspection plan.



Window qs_ qsartikelhaupt_ browse.psr

The list of columns is adjustable ***see*** window settings, templates are supported.

For field descriptions ***see*** edit QC-inspection plan.

Configuration:

QC-inspection plan

© 2026 Boyum IT Solutions A/S

Edit QC-inspection plan
Master data
Parallel
Release
Rule
Execution

See

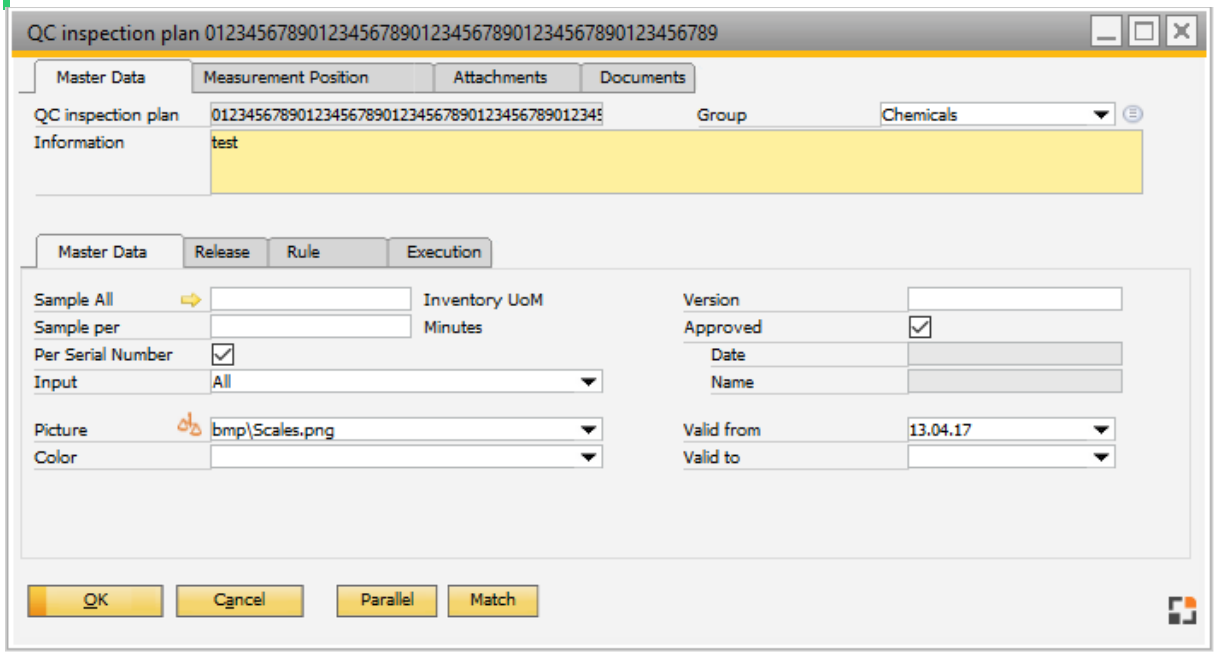
Quality control

Quality control orders

8.11.4.1 Edit QC inspection plan

Main window for editing inspection plans.

PATH: Production > Quality control > QC inspection plan > **Open** an entry.



Window qs_qsartikelhaupt_edit.psr

QC-inspection plan

Edit QC-inspection plan

Master data Basic information, Release, Rules

© 2026 Boyum IT Solutions A/S

Parallel	Determines parallel QC-inspection plans
Release	Release rules, Work flow for blockage
Rule	Rules for registration, applying for measurement positions
Measurement positions	Definition of measurement positions
Attachments	Store up to 3 images
Documents	Attachments, Documents, Texts to be transferred to the QC order

See

QC-inspection plan

8.11.4.1.1 QC inspection plan master data sheet

QC-inspection plan

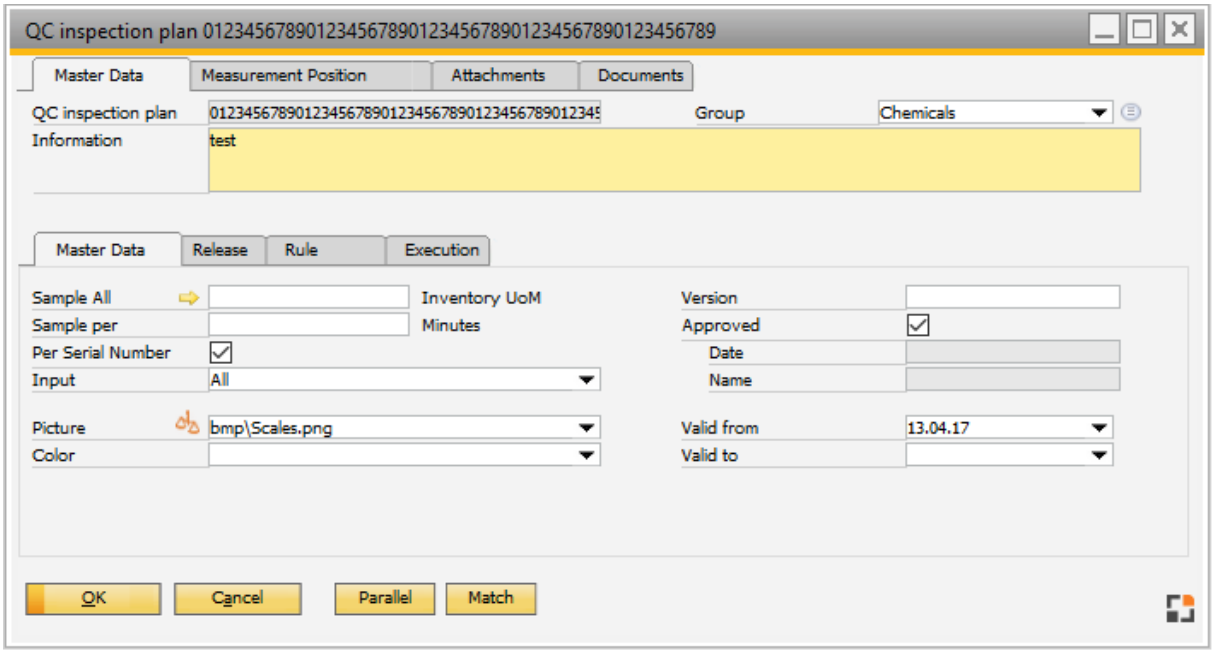
Edit QC-inspection plan

Master data	Basic information, Release, Rules
Parallel	Determines parallel QC-inspection plans
Release	Release rules, Work flow for blockage
Rule	Rules for registration, applying for measurement positions
Execution	Script

Measurement positions	Definition of measurement positions
Attachments	Store up to 3 images
Documents	Attachments, Documents, Texts to be transferred to the QC order

PATH: Production > Quality control > QC inspection plan > **Open** an entry.

© 2026 Boyum IT Solutions A/S



Window qs_qsartikelhaupt_edit.psr

Header fields

Field	Meaning
QC-inspection plan	Unique ID for inspection plan, not changeable subsequently. If in **item > QC** no link to an inspection plan was stored, the item number can be entered here. In this case the QC inspection plan will be linked directly to the item.
Information	Description of QC inspection plan.
Group	QC-inspection plan can be assigned to a group. Scrap reasons and valuation reasons can also be assigned to a group. If a group was created, only matching entries are displayed. ***See*** Blockage reasons. A new group can be entered. All previously entered groups are selectable.
Copy from	Copy measurement positions from inspection plan. Field is available for new creation only. An inspection plan can be selected from which measurement positions are used. This way a template for new inspection plans can be created without having to copy the complete inspection plan. *beas9.0-004-000-000*

© 2026 Boyum IT Solutions A/S

Functions

Function	Meaning
Add	Create new QC inspection plan.
Remove	Delete QC inspection plan. Deletion is not possible if the inspection plan is stored in an operation catalog, routing, item link or work order. ***See*** routing
Duplicate	Copy the QC inspection plan.
Parallel QC Inspection Plan	Additional inspection plans can be linked to this inspection plan. If a QC-order is created for one inspection plan, a parallel QC-order is created for the second inspection plan. This can be used, if several employees are working on quality control tasks. Note: QC-order can be released only after all parallel QC-inspection plans have been released.
Match	All measurement positions of all samples in open QC orders are matched. All measurement positions are deleted and inserted new. All open quality control orders without measurement results are affected. Possible manual changes made directly in the QC order will be deleted.
Cross Reference	The button opens the Cross Reference for Work Center window.
Change Log	Opens the Change log for this entry.

8.11.4.1.1.1 Inspection plan Master data

Edit QC-inspection plan

Master data sheet

Master data

Measurement per

Parallel

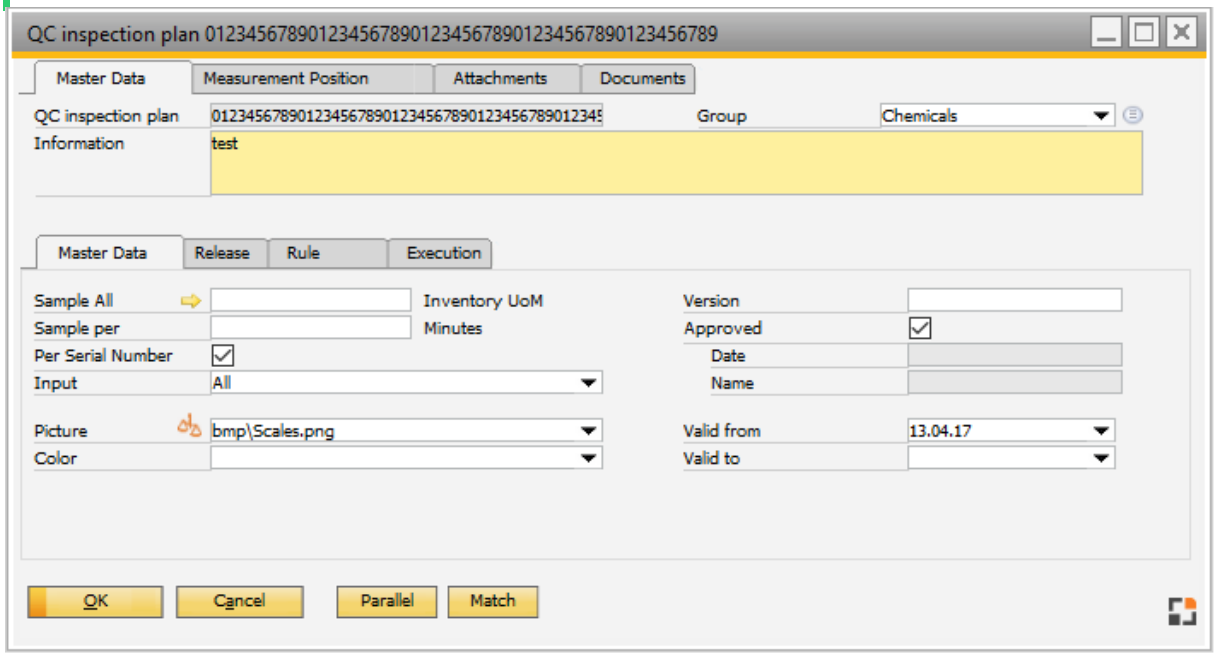
© 2026 Boyum IT Solutions A/S

Release

Rules

Execution

PATH: Production > Quality control > QC inspection plan > **Open** an entry > lower Master Data tab.



Window qs_qsartikelhaupt_edit.psr

Field	Meaning
Sample All	For each inspection plan samples are inserted. With this field you can indicate how often a sample is taken (set the interval: every n number of test items or units). For 0, only one sample is inserted. For ***example***, if quantity is 1, and this value is 10, one sample is inserted. If the quantity is 10, one sample is inserted, and two samples if the quantity is 11, 15 or 20. Alternatively, a quantity-dependent number of samples can be stored in a table. To do this, click the orange arrow left to the input field. ***See*** Measurement per

© 2026 Boyum IT Solutions A/S

	Note: If a QC plan is stored with a position, the "Measurement per" option is ignored. Only one sample is ever created, and further samples can be created as needed.
Per serial number	If active, creating a QC-order the link to a serial number is created. The serial number is then displayed in window "Samples per test". The option is ignored, if the QC-inspection plan is stored in an operation. Use the option only for serial number related items. If all conditions apply, this option has a higher priority than "Measurement per".
Samples per .. minutes	Number of samples "per x minutes". The option is only active if the QC-inspection plan is stored in an operation. The total planned time is used to calculate the number of samples. The option "Samples per" is ignored in this case.
Input	Type of registration. Per sample: Measurements are indicated per sample. Per measurement position: registration of samples per measurement position All: both kinds of registration are possible The setting affects the visibility of various buttons. With "per measurement position" the button "per sample" is hidden. ***See*** Routing – QC-inspection plan
Image	Store an icon to be displayed in various lists.
Color	Set up a color to mark the entry.

Release area

There the inspection plan can be released. As long as not released, it can not be selected.

Field	Meaning
Version	Version of QC-inspection plan (for revision purposes). Only information
Approved	Release QC-inspection plan for use

© 2026 Boyum IT Solutions A/S

	Can only be used, if active. Note: If release is disabled, and the inspection plan is stored in an item, QC order creation might fail. At least one released QC inspection plan must be stored in the item. ***See*** Item – Quality control
Date / Name	The employee releasing the inspection plan and the date of release.
Valid from / to	The validity period of the inspection plan (from-to). **Note:** If the inspection plan is not yet valid and stored in an item, QC order creation might fail. At least one released QC inspection plan needs to be stored in the item. ***See*** Item – Quality control

Edit QC-inspection plan

Master data sheet

Master data

Measurement per

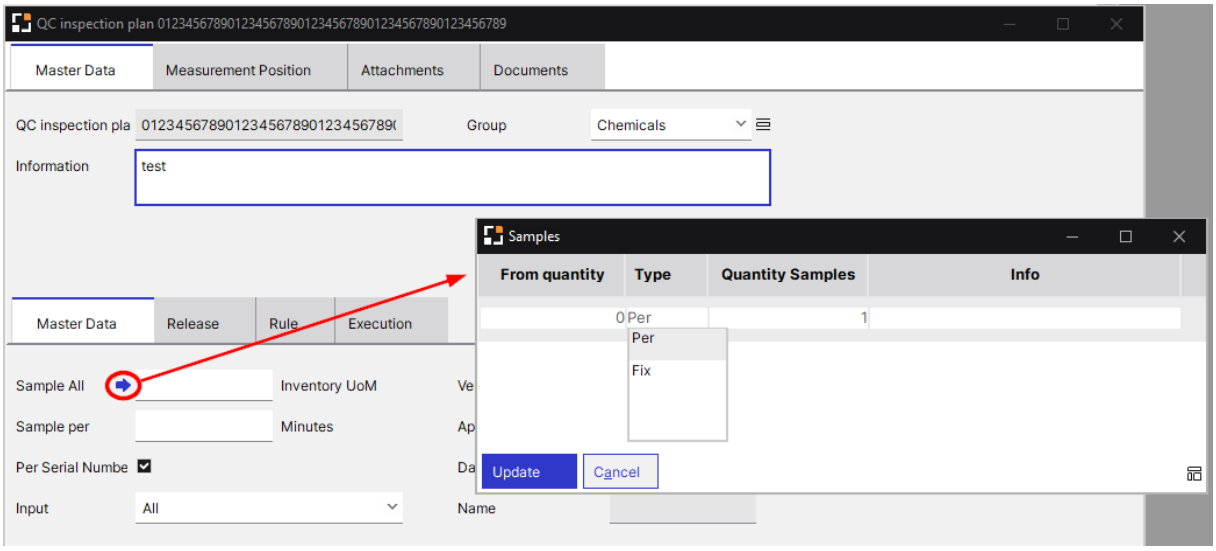
Release

Rules

Execution

© 2026 Boyum IT Solutions A/S

Determination of the number of samples: Click the orange/blue arrow left of the input field in the QC inspection plan - Master data window.



Window qs_stichproben_browse.psr

Field descriptions

Field	Description
From quantity	From which quantity the rule applies. This is in the warehouse unit of the item to be tested.
Type	Select how to consider quantity upon inspection. Right-click the field to access selections "per" or "fixed": ***Example:*** "Fixed": The number of samples specified here above quantity x "Per": One sample every "per quantity" x above quantity x
Quantity Samples	How many samples to create from this quantity
Info	Free information line

Setting

From Quantity	Type	Quantity Samples
0	Per	1
10	Per	2
100	Per	10

© 2026 Boyum IT Solutions A/S

With this setting if we create a goods receipt with Quality control:

Good Receipt	Created Samples
3 Pcs	3
20 Pcs	10
200 Pcs	20

8.11.4.1.1.2 Parallel QC Plan

Edit QC-inspection plan

Master data sheet

Master data

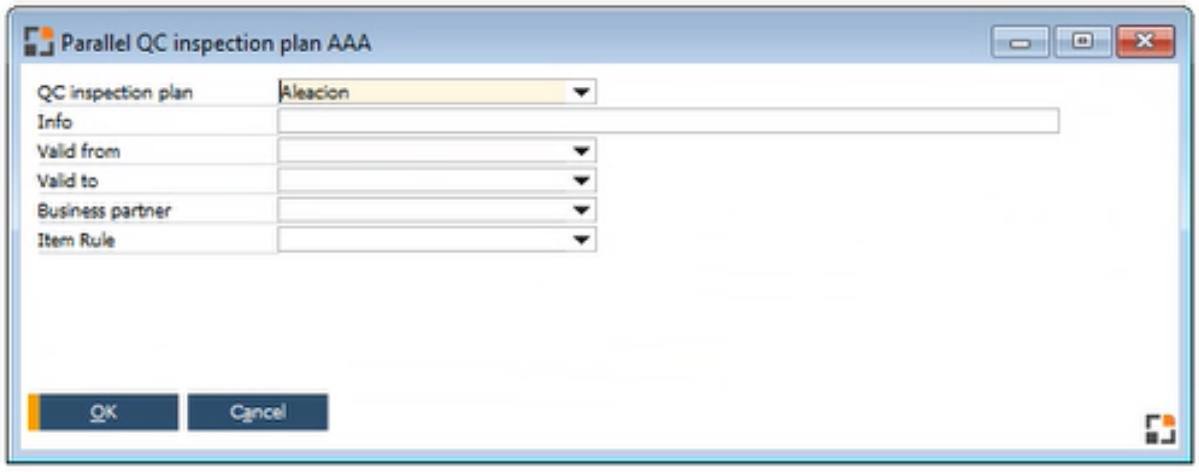
Parallel

Release

Rules

Execution

PATH: Production > Quality control > QC inspection plan > Open an entry > Click Parallel > Click Open/Add.



Window qs_qsartiklsub_edit.psr

If a QC-order was created for this QC-inspection plan, a parallel running QC-order is created for the related QC-inspections plans.
Example of use: multiple employees execute different parallel QC-checks.

Plans which have been created previously, can be defined as parallel using the button "Parallel".

© 2026 Boyum IT Solutions A/S

Note: If a parallel QC-inspection plan was defined, the QC-order can only be released if all inspections had been also released.

Field	Meaning
QC-inspection plan	Select QC-inspection plans, to be executed in parallel
Info	Arbitrary Information
Valid from / to	This parallel inspection plan is inserted only, if the QC-order was created in the date indicated here.
Business Partner	This parallel inspection plan is inserted only, if the QC-order was created for the indicated business partner.
Item Rule	This parallel inspection plan is inserted only, if Item / Quality Control contains the selected rule.

Functions:

Remove: Delete current inspection plan.

8.11.4.1.1.3 Release

Edit QC-inspection plan

Master data sheet

Master data

Parallel

Release

Rules

Execution

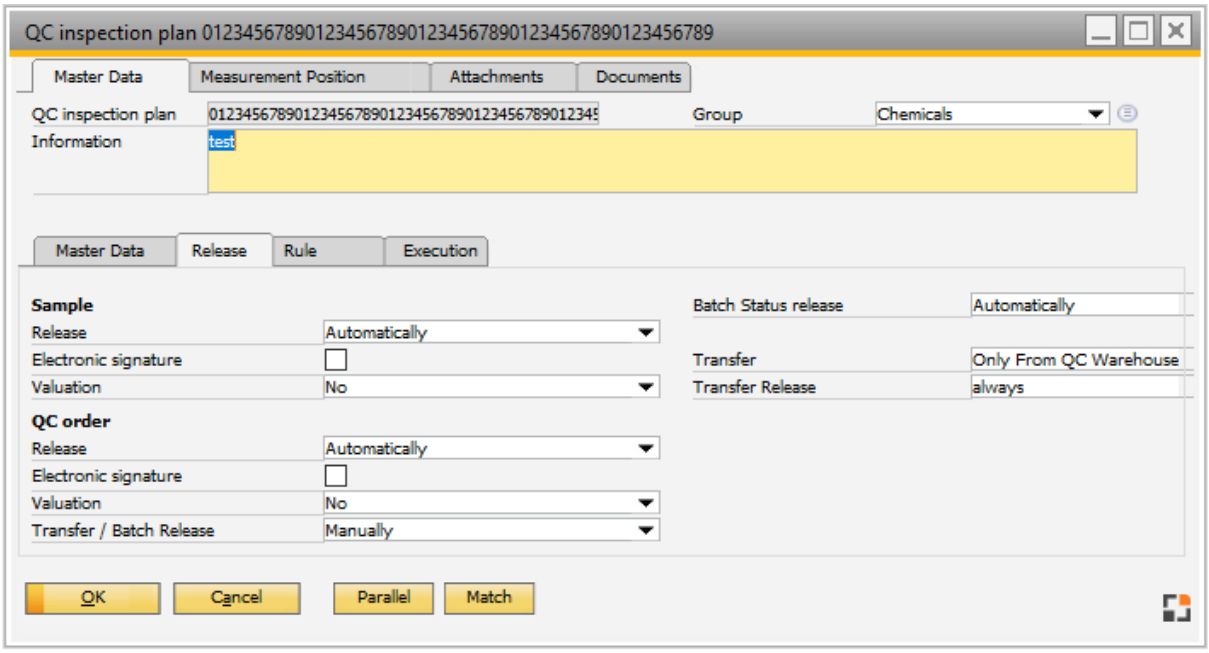
The definition of the workflow for release or blockage can be edited in the Release tab. The release can be performed on the level of measurement, sample or order.

You can define the 4-eyes principle of control on every level depending on the valuation.

For process of release on measurement position level ***see*** Measurement position.

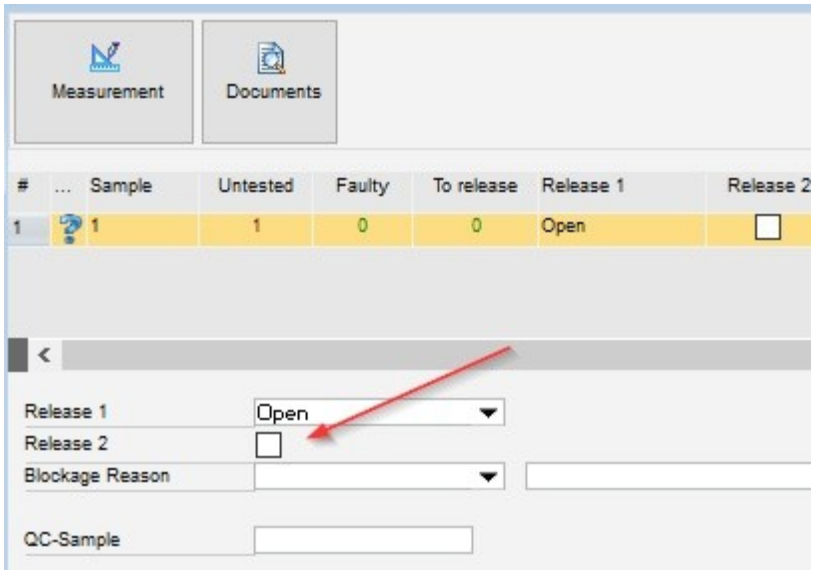
PATH: Production > Quality control > QC inspection plan > **Open** an entry > "Master Data" tab > "Release" tab.

© 2026 Boyum IT Solutions A/S



Window qs_qsartikelhaupt_edit.psr

Sample

Field	Meaning
Release	Define the release for Sample (four-eyes principle). Related to Sample – Release. Define when Release 2 is activated. The QC Inspection Plan can only be released if all Release 2 for all Samples are activated: 

© 2026 Boyum IT Solutions A/S

Available variants:

Variant	Description
Automatically	If "Release 1" is "released", the system activates "Release 2" automatically. Working with this variant is not possible if "Electronic Signature" is activated. If the user changes "Release 1" to "manually locked" or "opened manually", the system disables "Release 2".
Manually only if OK	You must Release the sample manually. Use this if you work with "Electronic signature" / 4 eyes concept. It is not possible to Release the sample if not all Measurements are OK. If one of the measurements is locked, the status "Release 1" switches automatically to "Locked". You can reopen the sample if you define "Release 1" as "opened manually".
Always manually	Release can be performed entirely manually. The system ignores status "Release 1". The user can activate "Release 2" at any time.

In the next step, after releasing the sample, the QC order can be released.

Note:
No automatic release is executed if the inspection plan has no inspection-relevant measurement position.

See Four eye principle

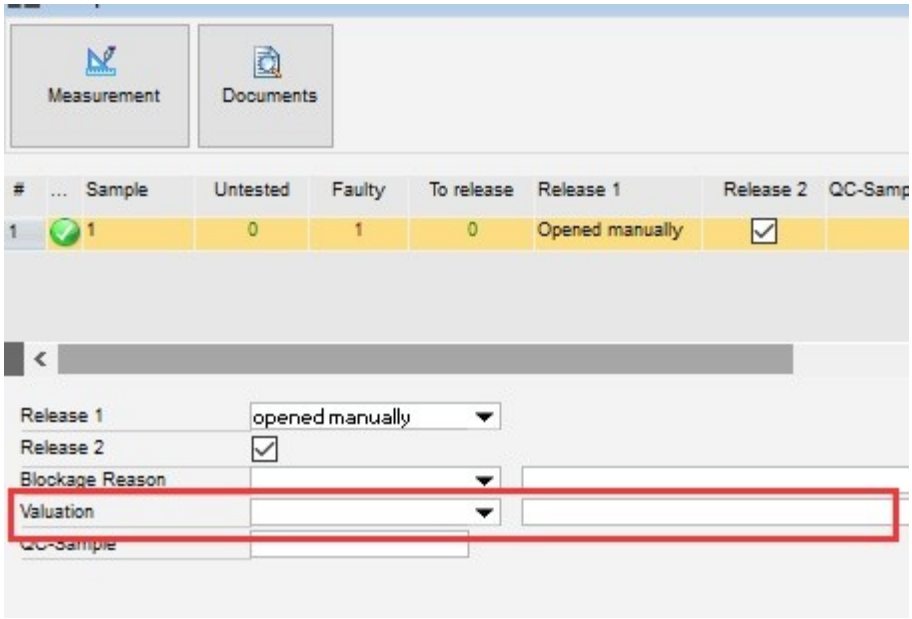
Electronic signature

Activate this if you work with the 4-eye concept

Concept of this function:

User 1 checks the measurements position. If all ok, User 2 check the result again.

© 2026 Boyum IT Solutions A/S

	Only if all OK can the user release the Sample, as well. User 1 cannot release this sample. Only possible if setting "Release" is "Manually only if OK". For release a password needs to be entered. ***See*** Personnel - Login ***See*** Glossary - electronic signature.
Valuation	Is the Sample to be valued? This setting defines the field "Valuation" in Sample. 

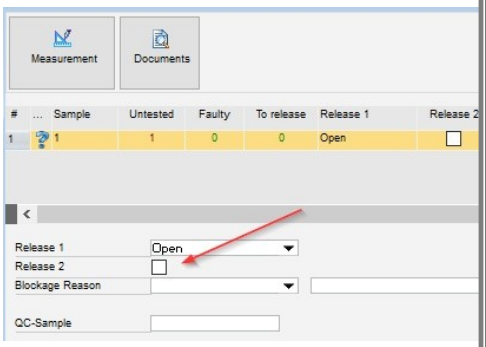
Setting	Description
No	No valuation is possible and the fields are hidden. They can be displayed in lists using window settings.
Yes	Valuation possible.
Mandatory	Valuation mandatory. The sample cannot be released until it is valued. Note: If "**Valuation**" was set to "**mandatory**" the combination with "**Release**" set to "**automatically**" is not allowed. In this case, the program switches "**Release**" to "**manually only ok**".

QC-Order

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Meaning</th></tr>
<tr><td>Release</td><td>Define the release status of QC Order

With this setting you can define the automatic release of a QC Order.

<table>
<tr><th>Setting</th><th>Description</th></tr>
<tr><td>automatically</td><td>Automatic release as soon as "Release 2" in all Samples are OK.
 

Switching to "automatic" the "Electronic signature" is disabled and "Valuation" is set to "yes".</td></tr>
<tr><td>manually only if OK</td><td>Manual release if all values are OK. In this case one person can enter values and release the sample.</td></tr>
<tr><td>always manually</td><td>Same as automatic, but you can release this sample every time.</td></tr>
</table>

In the next step, after releasing the sample, the QC Order can be released.</td></tr>
<tr><td>Electronic signature</td><td>A password needs to be entered for release. See Personnel - Logon.</td></tr>
<tr><td>Valuation</td><td>Value the QC Order?

No: No valuation possible. Valuation fields are hidden at entry.
They can be displayed in lists by applying window settings.

Yes: Valuation possible.

Mandatory: Valuation mandatory. As long as the sample was not valued, it cannot be released.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

	Note If "**Valuation**" was set to "**mandatory**", the combination with "**Release**" set to "**automatically**" is not allowed. In this case the program switches "**Release**" to "**manually only ok**".
Transfer / Batch release	Determines whether a transfer or batch release is possible This parameter reflects how the QC Order is going to work when the Order is closed. Details Batch status can only be set to "released" after the order has been released. When the Work order being closed, the system automatically checks the status of the transfer and the status of the batch. The system will only close the WO when the transfer process is finished and the batch status is released. Values of the parameter: - **Manual:** When this value is selected, the system does not do the validation. - **Mandatory:** When this value is selected, the system does the validation. This parameter only affects when the WO is going to be closed automatically, when user tries to close in manual way, this parameter is ignored.
Automatically close	Close the order automatically? Refers the field **QC Order, Field "close"** **automatically:** QC Order is closed automatically if released (**QC Order, Field "release"**). When the QC order is to be closed, the system checks if there are any Open Transfer documents for the current QC Order. If any Transfer is open, the system will not close the QC Order, and will leave it open. The user will have to close the order later, manually . **manually if OK:** QC Order can be closed manually if a blockage reason was stored or the QC Order was released (**QC Order, Field"Release"**).

© 2026 Boyum IT Solutions A/S

	manually without check: The QC Order can be closed at any time.

Batches, Transfer

Field	Meaning
Batch Status release	Determines whether the batch status is released automatically. **Manually:** Batch is not released automatically. **Automatically:** Batch is released automatically after the QC Order was released. **Manually only By Release**: Manual release only after the QC Order has been released. ***See*** Concept - Batch release
Transfer	Transfer by warehouse **From all warehouses**: Transfer request always, regardless of which warehouse the goods were received from. **Only from QC warehouse**: Transfer request only for the warehouse which was defined as goods receipt/QC-warehouse. ***See*** Warehouse master data - Type of warehouse QC Transfer
Transfer Release	Can the item be transferred to the yield warehouse ? Affects the Transfer window; allows to lock the transfer process. **always:** Item to be checked; can be posted at any time to the yield warehouse. **only by release:** The QC-order needs to be released (**QC Order, Field "Release"**) before the item can be transferred to the yield warehouse.

8.11.4.1.1.4 Rules

Edit QC-inspection plan

Master data sheet

© 2026 Boyum IT Solutions A/S

Master data

Parallel

Release

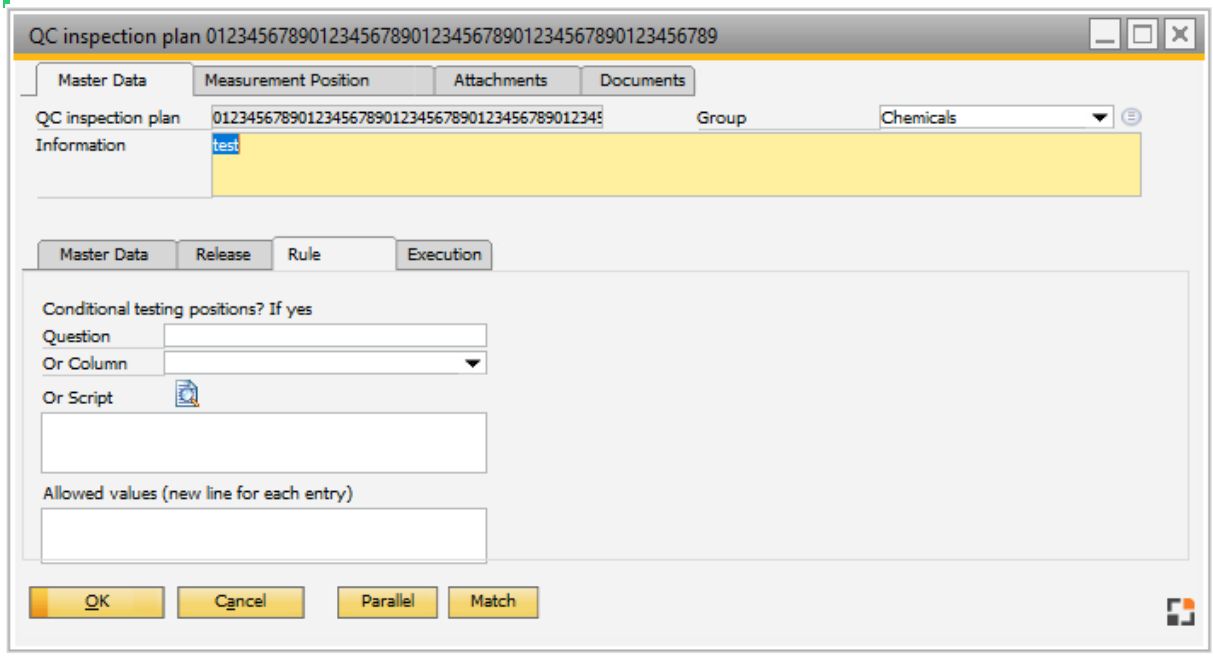
Rules

Execution

Measurement positions can have conditions. This can be a value which is determined here and stored in the measurement positions to be compared.

Only if the value matches, the measurement position is created.

PATH: Production > Quality control > QC inspection plan > **Open** an entry > "Master Data" tab > "Rule" tab.



Window qs_qsartikelhaupt_edit.psr

Example: Question for "color," allowed values "red" and "blue".

For measurement position 1 "red" and for 2 "blue" is entered.

When creating the QC order, if "blue" is selected to the question of color, only measuring position 2 will be created.

Alternatively, a script can be deposited or for work orders you refer to a data base field.

Note:

Parallel QC orders ignore the rules.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Question	Question for value. Only if no field and no script was stored. Message box with the question. The user can insert a value. Note: Not supported in the WEB-application, WEB Services or if QC order created by SAP Transaction Notification procedure.
or Column	Select a Beas-field, from which values for checking are taken. Only considered for work orders of type E or F).
or Script	By BeasScript it is determined which conditional value is set. The variable "condition" is returned: `setvar=contidion=red` The following variables are available `e_qcorder` = QC-order `e_typ` = Type QC-order. ***see*** Types `e_itemcode` = Item `e_base_belnr_id` = work order document number (Type E or F) `e_base_belpos_id` = work order number (Type E or F) `e_base_pos_id` = operation (only Type F) `e_basetype` = origin document (eg. posting document, goods receipt etc.) `e_basedocentry` = origin document number `e_baselinenum` = line number in origin document number `e_baselinenum2` = line numer 2 (for example work order item) in origin document number `e_basebasetype` = caused by document Note: If a QC order is created per batch, the type is "B", but the origin document is a goods receipt. then basetype can differ from typ.

© 2026 Boyum IT Solutions A/S

	Note: Is not supported in the WEB-application if an input or an output has to be executed, because this is run by the server.

Allowed values (new line for each entry)	Definition of allowed values.
	Allowed values for the above fields can be specified here.
	One value per line, e.g.:
	`blue`
	`green`
	`red`
	Note: WEB-application is not supported.

Note: No query can be displayed in the WEB-application. That is why these functions are not supported in the WebApps.

8.11.4.1.1.5 Execution

Edit QC-inspection plan
- Master data sheet
  - Master data
  - Parallel
  - Release
  - Rules
  - **Execution**

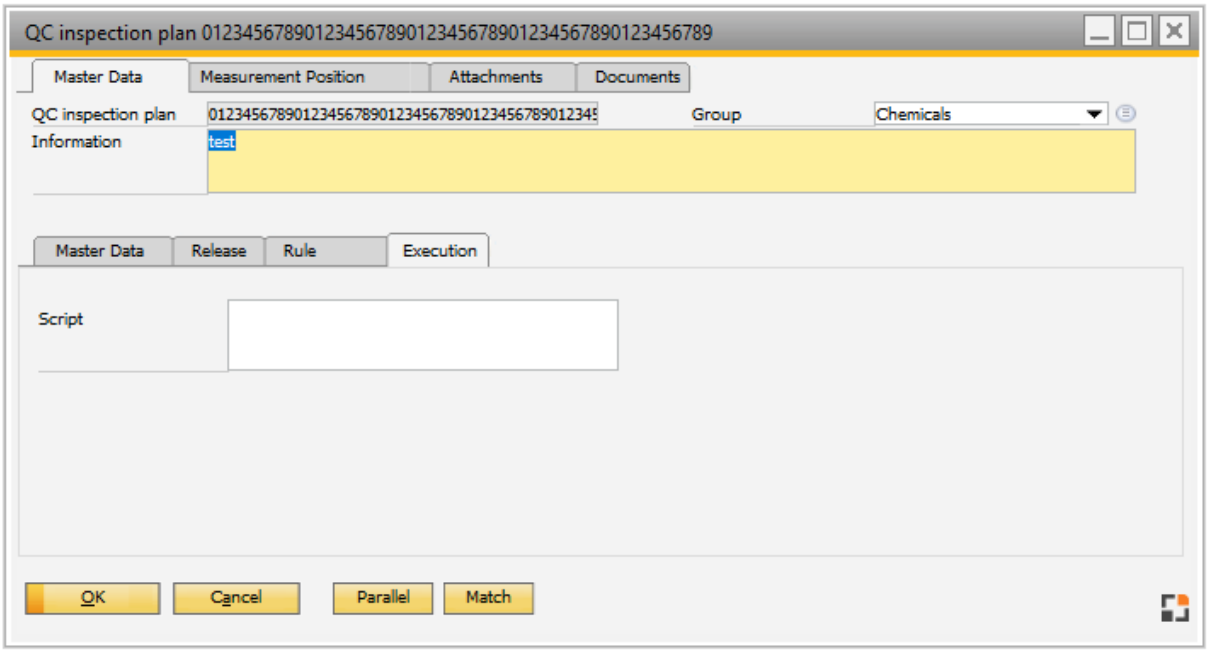
You can store a script to manipulate the creation of a QC order:

`return failure` -> QC order will not be created

`return success` -> QC order will be created

PATH: Production > Quality control > QC inspection plan > **Open** an entry > "Master Data" tab > "Execution" tab.

© 2026 Boyum IT Solutions A/S



Window qs_qsartikelhaupt_edit.psr

Available variables

Variable	Meaning
`e_qcorder`	QC-order number to be generated (alphanumeric)
`e_qsqcorder`	QC-inspection plan to be used
`e_qcbasetype`	Origin document type
`e_qcbaseorder`	Origin document number
`e_qccardcode`	Origin document business partner number
`e_qsitemcode`	Item

Example:

Use this script to prevent QC order creation for business partner C5001:

```
if <e_qccardcode> = "C5001" then
  return failure
end if
```

8.11.4.1.2 Measurement position

List of stored measurement positions with possibility to add or edit. Templates and window settings are supported.

QC-inspection plan

© 2026 Boyum IT Solutions A/S

Edit QC-inspection plan

Master data

Measurement positions

Edit measurement positions

Attachments

Documents

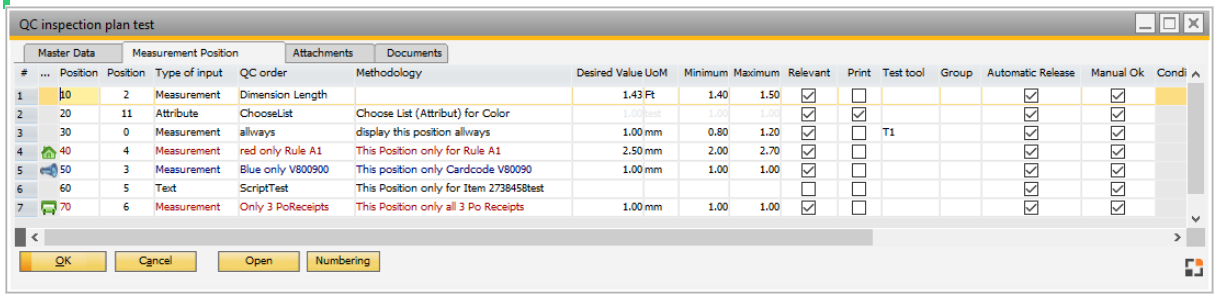
For field descriptions ***See*** edit measurement positions

Order of measurement positions can be changed by drag&drop. After that, the button "**re-numbering**" can be used.

Multiple selection, copy&paste via clipboard are supported. Measurement positions can be copied and inserted this way.

Measurement positions can be edited directly in this window: open Window settings and set desired fields to "editable".

PATH: Production > Quality control > QC inspection plan > **Open** an entry > "Measurement Position" tab.



beas-Version 9.0-000-003-000, Window: qs_qsartikel_edit

Functions

Button	Meaning
OK / Update	Save changed order and close the window.
Add	Create new measurement position.
Remove	Delete measurement positions.
Edit	Edit measurement positions.
Numbering	Re-number measurement positions.
Copy to clipboard	Copy selected positions to clipboard

© 2026 Boyum IT Solutions A/S

Change log	The Change Log displays all changes for the Quality Control order.
Insert from clipboard	Insert previously selected content (appended below to the list) This may even be from another inspection plan.

8.11.4.1.2.1 Edit measurement positions

Edit screen for definitions of measurement positions

QC-inspection plan

Edit QC-inspection plan

Master data

Measurement positions

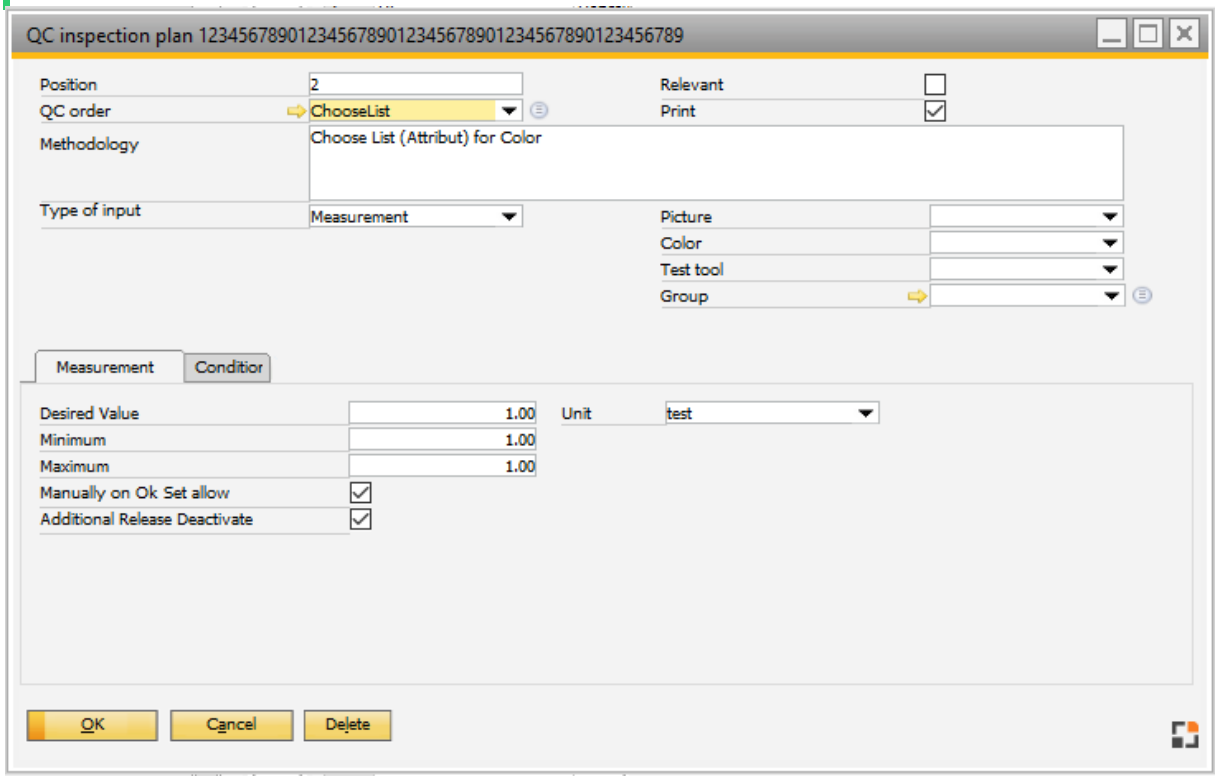
Edit measurement positions

Attachments

Documents

In this window you can edit or add a new measurement position.

PATH: Production > Quality control > QC inspection plan > **Open** an entry > "Measurement Position" tab > double-click an entry.



Window qs_qsartikel_edit_detail.psr

© 2026 Boyum IT Solutions A/S

Master data

Field	Meaning
Position	The list is sorted by this number. You can re-sort using Drag&Drop. Alphanumeric characters are allowed, position numbers can be assigned twice.

Measurement

Field	Meaning
Position	The list is sorted by this number. You can re-sort using Drag&Drop. Alphanumeric characters are allowed, position numbers can be assigned twice.
Batch/Serial	Batch/Serial number
QC-Order	Short description for the measurement position. Right-click to select a default from the default texts. After selection, the method description is also transferred. ***see*** Manage default texts.
Methodology	Long description. Edit by double-clicking or clicking the "**Description**" button.
Type of input	Type of entry. **Available types:** Measurement: Minimum / Maximum values are considered. The "measurement" tab is displayed. The measured value is OK if it is between the minimum and maximum. Attribute: A measuring position can be marked as "OK" Values can be entered, but will not be checked. ***Example:*** Check of color Enter "red" and "OK" for confirmation. Text: Position is only displayed. No confirmation or entry. **Attribute**: you can only specify whether it is okay, and include

© 2026 Boyum IT Solutions A/S

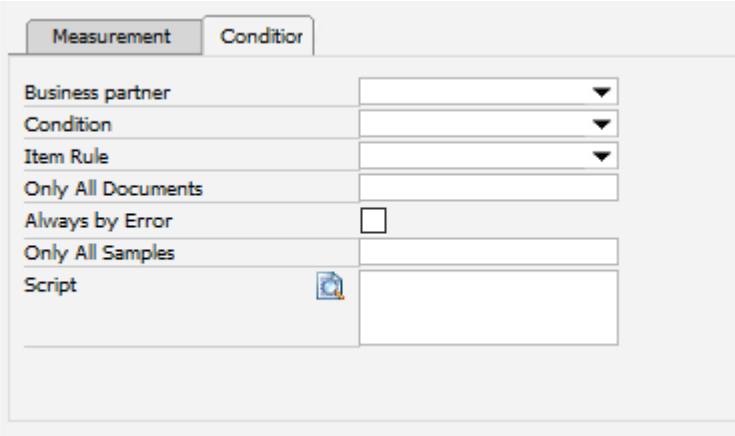
	information. **Measurement**: Minimum / maximum values are considered. **Text**: Only a header line.
Desired value, UoM	Specify target value and unit of measure (mm, kg, % etc., UoM is mandatory)
Minimum / Maximum	Enter minimum and maximum value for a measurement point. The measurement position is released when the measured value lies within this range. Only possible for entry type "measurement" not for "attribute" or "text". If no value is entered, "allowed to set OK manually" will be activated automatically at checking.
Relevant	This option must be activated if this measuring point is relevant for the release of the test plan. This option is always deactivated for type "Text". Note: For automated release at least one relevant position is required.
Print	This option must be activated if the measuring position should be printed in a quality control protocol.
Test tool	A test tool can be selected. Only information – no effect. No reservations or dispatches. ***see*** Tool administration
Condition	Only inserted if the stored value matches the selected values in query. ***see*** conditional testing positions
Item rule	Measurement position is only inserted if this field is empty or matches the value entered in Item QC-link. The measurement position can be hidden or displayed depending on the item or document. ***See*** Item QC-link - Measurement position - Rule.
Manual OK	Determine whether the measurement position may be set to "OK" manually.

© 2026 Boyum IT Solutions A/S

	If the option is active, the icon "OK" is displayed in the Measurement sample . There, it is possible to set the position to "OK" even if the measured value is out of allowed range. For type of entry "Attribute" this option is always active. Entering values, this option is automatically enabled if no minimum or maximum value was defined.
Additional release Deactivate	Disables the four-eye principle. By default, each measurement position needs to be checked and released by a second person. Four-eye principle Important: The person who entering the measured values is not allowed to release them, as well. If this option is disabled, the measurement position is automatically released, after the field "OK" was set. Electronic signature is not supported at this level.

Condition

In the condition area you can determine under which conditions a measurement position is included in the QC-order



Window qs_qsartikel_edit_detail.psr

Field descriptions

© 2026 Boyum IT Solutions A/S

Field	Meaning
Business partner	If a business partner was entered: only for this BP.
Rule	Rule according to QC-inspection plan rules.
Item Rule	Measurement position is inserted only, if this field is empty or matches the value, entered in QC-Item link. The measurement position can be hidden or displayed depending on the item or document type. ***See*** QC - Item link, measurement position rule.
Only all x documents	⊟ Measurement position is displayed only per .... documents. If you enter 5, the measurement position will be inserted for the first and the 6th document. Every QC-Item link is counted. ***Example:*** In item master there are 2 entries - for document type "purchase goods receipt" - for document type "all" The counter for purchase goods receipt will be created independent of all other document types.
Always by Error	⊟ In case of error "only per ... documents" - reset counter. This setting is only taken into account if a value was entered for "only per ... documents" If a QC-order was marked as faulty, the counter is reset and the measurement position is inserted at the next or the next QC-order. ***Example:*** "Only per ... documents": 5, "always after error" active 1. Goods receipt: measurement position inserted 2. No 3. No ... QC-oder marked as faulty

© 2026 Boyum IT Solutions A/S

	4. Measurement position inserted 5. ...7 no 8. Measurement position inserted
Only All x Samples	The system creates a measurement for all "x" samples defined in this field. IMPORTANT: The number of samples belongs to the current document. Beas does not apply any accumulative number of samples from other documents.
Script	Rule Script. A script can be stored to determine, whether to create a measurement position. ***See*** beas script. The following variables are available:

Variable	Meaning
e_qcorder	QC-order (Field BEAS_QSFTHAUPT.CHARGE_ID)
e_qcbelnr_id	QC-order (Field BEAS_QSFTHAUPT.BELNR_ID)
e_qcdocentry	QC-order (Field BEAS_QSFTHAUPT.DocEntry
e_typ	Typ
e_ruleid	Order rule (from **item master - QC-link - Rule**, BEAS_QSFTHAUPT.Ruleid)
e_itemcode	Item
e_cardcode	Customer
e_base_belnr_id, e_base_belpos_id, e_base_pos_id	Reference to work order
e_basetype, e_basedocentry, e_baselinenum, e_baselinenum2, e_basebasetype	Reference to origin document, eg. purchase goods receipt
e_measurement	Sample number
e_quantity	Total quantity

© 2026 Boyum IT Solutions A/S

	At the moment of creating the sample, the QC-order is already saved in (BEAS_QSFTHAUPT), you can access it via SQL.
	Return: if the script is ended with "`return false`" the measurement position will not be created.
	
	Example: scale quantity.
	Execute measurement:
	from 100 pieces: 10 samples,
	until 100 pieces: 5 samples,
	less than 10 pieces: 2 samples
	`setvar=ll_max=10`
	`if <e_quantity,#0.000000> n< 100 then`
	`  setvar=ll_max=5`
	`end if`
	`if <e_quantity,#0.000000> n< 10 then`
	`  setvar=ll_max=2`
	`end if`
	`if <e_measurement> n> <ll_max> then`
	`  return failure`
	`end if`

Attribute selection	Selection list for attributes.
	Field is visible only if the measurement position is of type "Attribute".
	
	A selection list can be stored which will be available registering attributes. Then, manual entry is not possible.
	
	Enter a value per row: e.g. a color table.
	`red`
	`yellow`
	`green`

Execution

beas9.0-000-003-004

8.11.4.1.3 Attachments

QC-inspection plan

Edit QC-inspection plan

© 2026 Boyum IT Solutions A/S

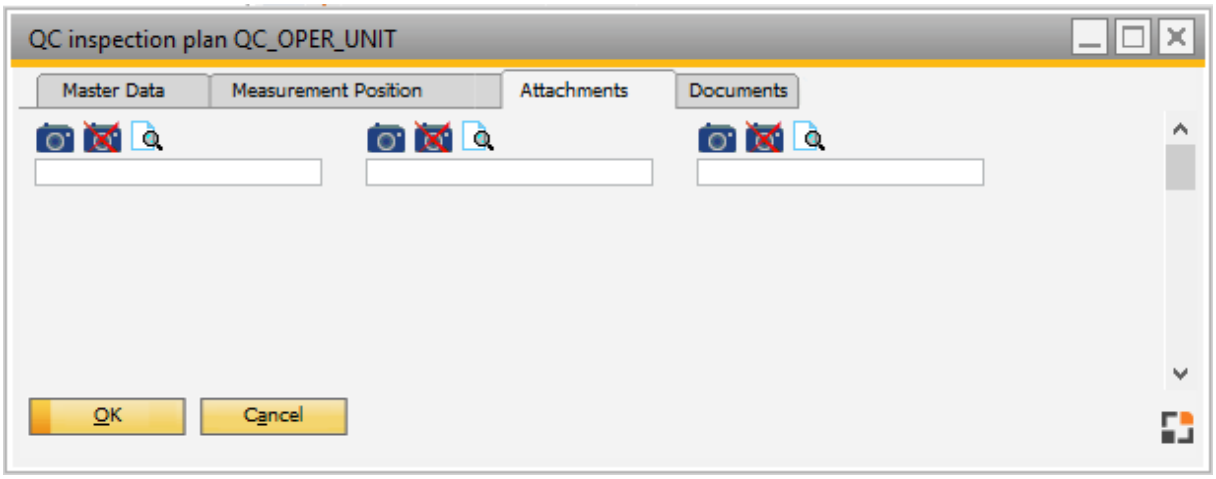
Master data

Measurement positions

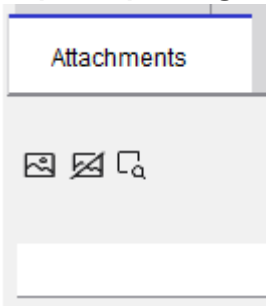
Attachments

Documents

Up to 3 images can be attached. Files are copied to a released folder and must have a unique name.



Boyum Style design:



Window qs_qsartikelhaupt_bild.psr

If a QC-order is created, entries are displayed under **QC-order > Documents.**

8.11.4.1.4 Documents

QC-inspection plan

Edit QC-inspection plan

Master data

Measurement positions

Attachments

© 2026 Boyum IT Solutions A/S

Documents

You can store documents which are to be transferred to the QC-order. For additional information and field descriptions ***See*** Edit document.
Documents are displayed in QC-Order – Documents.

Window settings and Templates are supported. List can be sorted using Drag&Drop, clicking on "Description". Authorization for QC inspection plan is not required.

8.11.4.1.4.1 Edit documents

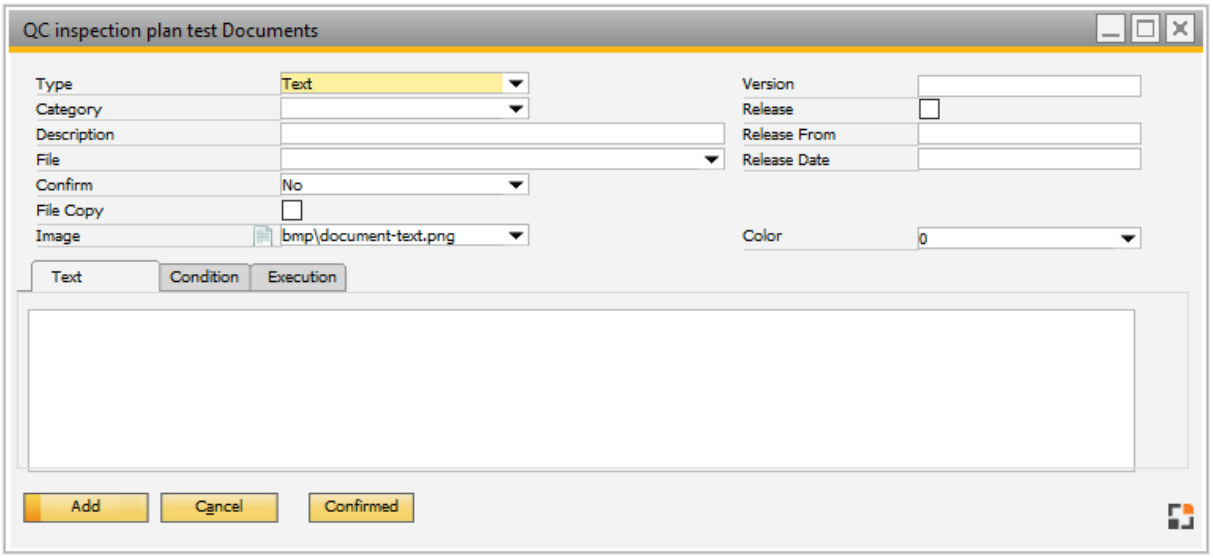
Documents attached to the QC-order are defined here.

QC-inspection plan
- Edit QC-inspection plan
  - Master data
  - Measurement positions
  - Attachments
  - **Documents**
    - **Edit documents**

Master data	Basic information regarding this document
Text	direct entry of text (Type = Text)
Condition	Under which condition to be used
Execution	Script – executed when document is opened.

PATH: Production > Quality control > QC inspection plan > **Open** an entry > "Documents" tab > **Open/Add**.

© 2026 Boyum IT Solutions A/S



Window qs_qsartikelattachment_edit.psr

Master data

Field	Meaning
Type	Determine type of attachment. **Text:** text can be entered directly (Text tab). ***See*** Text **File:** A file can be selected. **IMPORTANT**: A file need to be located in a folder accessible by all employees.
Category	Document can be linked to any category. Only information field, category can be entered freely. All previously used categories can be selected.
Description	Description of the document.
File	Select file. **IMPORTANT**: Attach a file containing various information or other measurements to the inspection plan. You can insert images or various documents, like MS Excel sheets with information. The file needs to be located in a folder accessible by all employees. ***See*** File settings. Programs to view the file need to be installed on every station. Beas does not display the content.

© 2026 Boyum IT Solutions A/S

Confirm	Select whether the user who entered measured values, needs to confirm documents. This can be used to ensure that the user could view documents before registering measured values. Beas logs, when and on which station the user viewed the document. **no:** User does not confirm the document. **single time:** User needs only once to confirm the document. Refers to the inspection plan, not the file name. If the document is changed, a new confirmation can be made necessary. To do: right-click - reset - confirm. **once per order:** user needs to confirm the document for every QC-order. Use button "Confirmed" to view all previous confirmations.
Copy file	If enabled, the file is copied when creating the QC-order. Copy is linked to the QC-order. This can be used if additional information is entered directly to the document. When you open the file to modify it according to the latest changes, this function will create a copy in the system. ***See*** File settings.
Version	Version number of the documents – information only.
Release	Release document: if not active is will not be transferred to the QC-order.
Release by	Released by whom- automatically filled.
Release date	When released - automatically filled.
Image	Icon for view in documents list.
Color	Display in documents list.

Text

Tab only visible if "Text" was selected as "Type" . A text can be entered, for example a work briefing, information on checks etc. In the QC-order only the entered text is displayed. Storing a file is not possible.

© 2026 Boyum IT Solutions A/S

Condition

Determine whether the document is transferred to the QC-order.

Field	Meaning
Valid from	Only if no date of validity was entered, or if the date is smaller than the current date. The creation date of the QC-order serves as reference, not the valuation date of the dependent document.
Valid to	Only if no date of validity was entered, or if the date is later than the current date.
Business partner	Only if no business partner was entered or in the dependent document (for example goods receipt) the same business partner was stored.
Item rule	Only if the rule in Item – Quality control matches or if the field is empty.
Script	Add script.

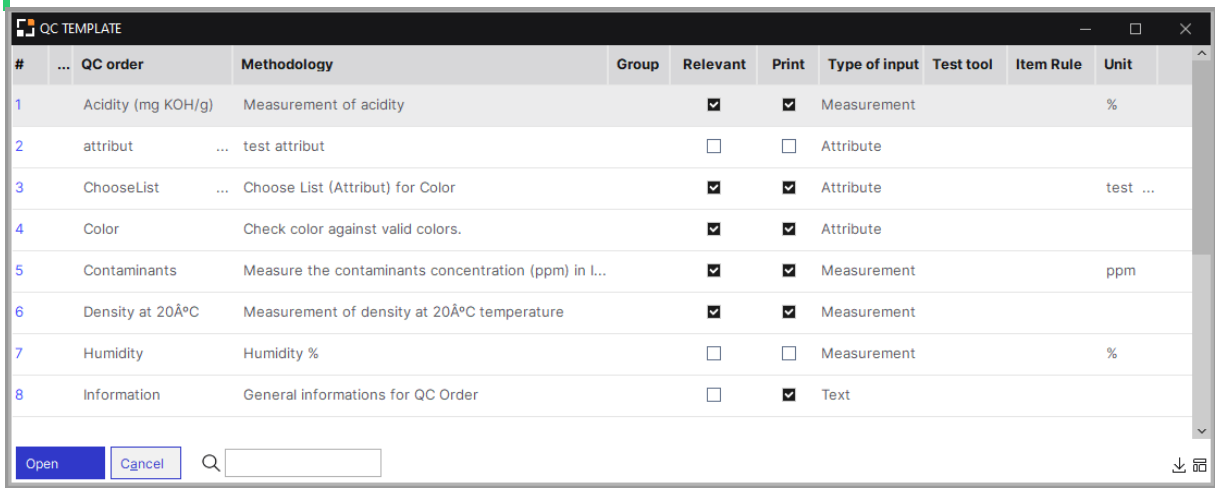
Execution

If a script is entered, it is executed instead of opening the document.

8.11.5 QC templates

Templates for QC-Measurement positions can be created and used in **QC-inspection plan > Measurement positions**. Authorization for QC template are required.

PATH: Production > Quality control > QC TEMPLATE.



Window qs_qs_browse.psr

Window settings and Templates are supported.

Field descriptions

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>QC Order</td><td>Short description for the measurement position. Right-click to select a default from the default texts. After selection, the method description is also transferred.
see Manage default texts</td></tr>
<tr><td>Methodology</td><td>Long description. Edit by double-clicking or clicking the "Description" button.</td></tr>
<tr><td>Group</td><td></td></tr>
<tr><td>Relevant</td><td>This option must be activated if this measuring point is relevant for the release of the test plan.
This option is always deactivated for type "Text".
Note: For automated release at least one relevant position is required.</td></tr>
<tr><td>Print</td><td>This option must be activated if the measuring position should be printed in a quality control protocol.</td></tr>
<tr><td>Type of input</td><td>Type of entry.
Available types:
<table><tr><td>Measurement</td><td>Minimum / Maximum values are considered. The "measurement" tab is displayed. The measured value is OK if it is between the minimum and maximum.</td></tr><tr><td>Attribute</td><td>A measuring position can be marked as "OK"
Values can be entered, but will not be checked.
Example:
Check of color
Enter "red" and "OK" for confirmation.</td></tr><tr><td>Text</td><td>Position is only displayed. No confirmation or entry.</td></tr></table>Attribute: you can only specify whether it is okay, and include information.
Measurement: Minimum / maximum values are considered.
Text: Only a header line.</td></tr>
<tr><td>Test tool</td><td>A test tool can be selected. Only information – no effect. No reservations or dispatches.
see Tool administration</td></tr>
<tr><td>Condition</td><td>Only inserted if the stored value matches the selected values in query. see conditional testing positions</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
Item Rule	Measurement position is only inserted if this field is empty or matches the value entered in Item QC-link. The measurement position can be hidden or displayed depending on the item or document. ***See*** Item QC-link - Measurement position - Rule.
Only All documents	Measurement position is displayed only per .... documents. If you enter 5, the measurement position will be inserted for the first and the 6th document. Every QC-Item link is counted. ***Example:*** In item master there are 2 entries - for document type "purchase goods receipt" - for document type "all" The counter for purchase goods receipt will be created independent of all other document types.
Only All Measurement Positions	Measurements are taken only per ... positions If you insert e.g. 10, measurements are taken after each 10th piece. ***Example:*** You produce 100 units, and set this field to 10, QC measurements will be taken for the 10th, 20th, 30th, ... samples.
Always by Error	In case of error "only per ... documents" - reset counter. This setting is only taken into account if a value was entered for "only per ... documents" If a QC-order was marked as faulty, the counter is reset and the measurement position is inserted at the next or the next QC-order. ***Example:*** "Only per ... documents": 5, "always after error" active 1. Goods receipt: measurement position inserted 2. No

© 2026 Boyum IT Solutions A/S

Field	Description
	3. No ... QC-oder marked as faulty 4. Measurement position inserted 5. ...7 no 8. Measurement position inserted
Manual OK	Determine whether the measurement position may be set to "OK" manually. If the option is active, the icon "OK" is displayed in the Measurement sample. There, it is possible to set the position to "OK" even if the measured value is out of allowed range. For type of entry "Attribute" this option is always active. Entering values, this option is automatically enabled if no minimum or maximum value was defined.
Automatic Release	Disable the four-eyes principle. By default, each measurement position needs to be checked and released by a second person. ***See*** Four-eye principle Important: The person entering the measured values is not allowed to release them. If this option is disabled, the measurement position is automatically released, after the field "OK" was set. Electronic signature is not supported at this level.
Supplier	Supplier number
UDF 1–4	User-defined fields 1–4
Unit	Unit of measure
Template fields 1–6	Template fields 1–6

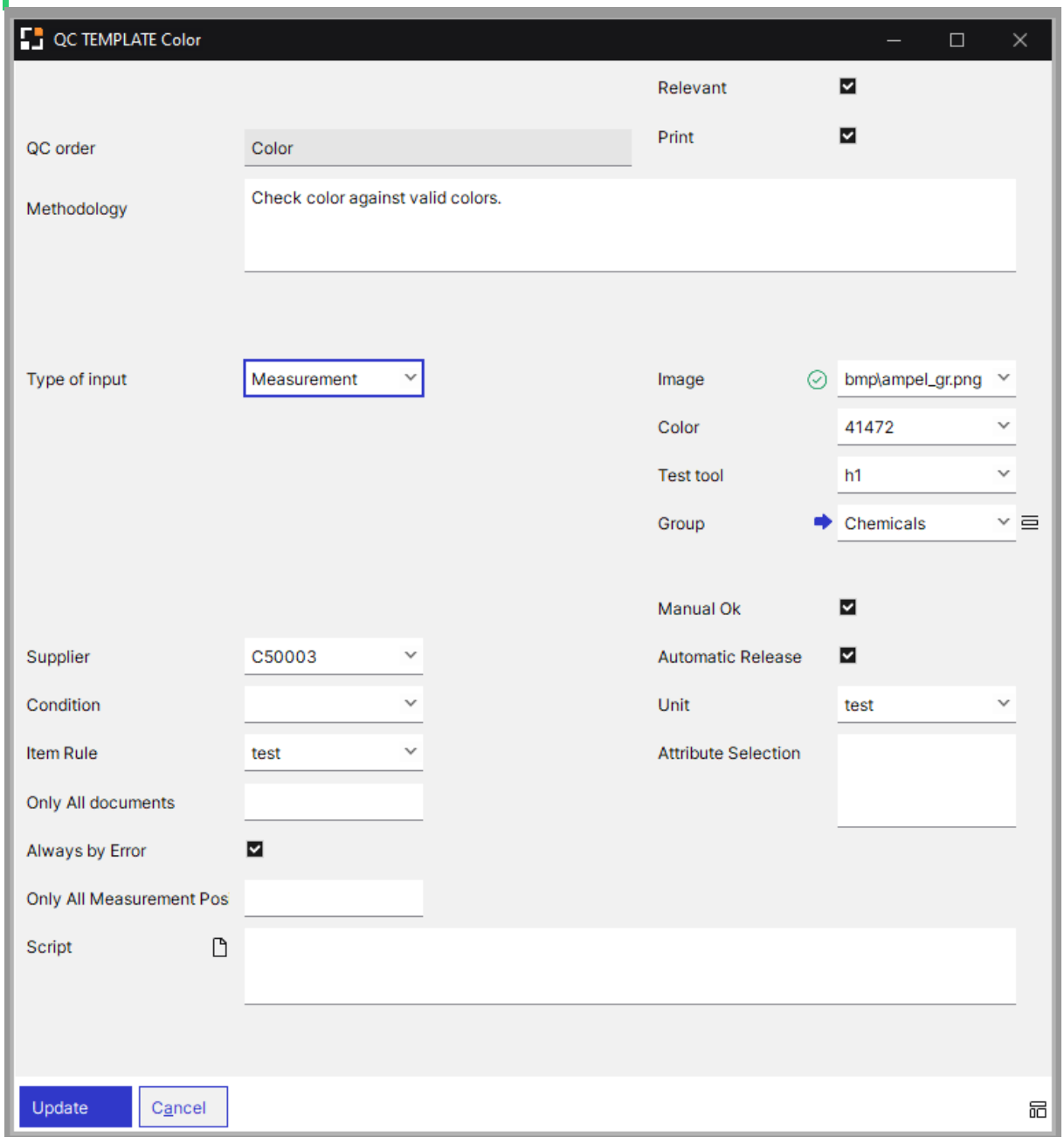
See how to edit QC templates

© 2026 Boyum IT Solutions A/S

8.11.5.1 edit QC templates

In this window you can edit a Quality control template.

PATH: Production > Quality control > QC TEMPLATE > **Open** an entry.



Window qs_qs_browse.psr

Field descriptions

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>QC Order</td><td>Short description for the measurement position. Right-click to select a default from the default texts. After selection, the method description is also transferred.
see Manage default texts</td></tr>
<tr><td>Methodology</td><td>Long description. Edit by double-clicking or clicking the "Description" button.</td></tr>
<tr><td>Group</td><td></td></tr>
<tr><td>Relevant</td><td>This option must be activated if this measuring point is relevant for the release of the test plan.
This option is always deactivated for type "Text".
Note: For automated release at least one relevant position is required.</td></tr>
<tr><td>Print</td><td>This option must be activated if the measuring position should be printed in a quality control protocol.</td></tr>
<tr><td>Type of input</td><td>Type of entry.
Available types:
<table><tr><td>Measurement</td><td>Minimum / Maximum values are considered. The "measurement" tab is displayed. The measured value is OK if it is between the minimum and maximum.</td></tr><tr><td>Attribute</td><td>A measuring position can be marked as "OK"
Values can be entered, but will not be checked.
Example:
Check of color
Enter "red" and "OK" for confirmation.</td></tr><tr><td>Text</td><td>Position is only displayed. No confirmation or entry.</td></tr></table>Based on the selected type of entry, the window shows/hides certain fields in the window.
Attribute: you can only specify whether it is okay, and include information.
Measurement: Minimum / maximum values are considered.
Text: Only a header line.</td></tr>
<tr><td>Test tool</td><td>A test tool can be selected. Only information – no effect. No reservations or dispatches.
see Tool administration</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
Condition	Only inserted if the stored value matches the selected values in query. ***see*** conditional testing positions
Item Rule	Measurement position is only inserted if this field is empty or matches the value entered in Item QC-link. The measurement position can be hidden or displayed depending on the item or document. ***See*** Item QC-link - Measurement position - Rule.
Only All documents	⊟ Measurement position is displayed only per .... documents. If you enter 5, the measurement position will be inserted for the first and the 6th document. Every QC-Item link is counted. ***Example:*** In item master there are 2 entries - for document type "purchase goods receipt" - for document type "all" The counter for purchase goods receipt will be created independent of all other document types.
Only All Measurement Positions	⊟ Measurements are taken only per ... positions If you insert e.g. 10, measurements are taken after each 10th piece. ***Example:*** You produce 100 units, and set this field to 10, QC measurements will be taken for the 10th, 20th, 30th, ... samples.
Always by Error	⊟ In case of error "only per ... documents" - reset counter. This setting is only taken into account if a value was entered for "only per ... documents" If a QC-order was marked as faulty, the counter is reset and the measurement position is inserted at the next or the next QC-order. ***Example:*** "Only per ... documents": 5, "always after error" active

© 2026 Boyum IT Solutions A/S

Field	Description
	1. Goods receipt: measurement position inserted 2. No 3. No ... QC-oder marked as faulty 4. Measurement position inserted 5. ...7 no 8. Measurement position inserted
Manual OK	Determine whether the measurement position may be set to "OK" manually. If the option is active, the icon "OK" is displayed in the Measurement sample. There, it is possible to set the position to "OK" even if the measured value is out of allowed range. For type of entry "Attribute" this option is always active. Entering values, this option is automatically enabled if no minimum or maximum value was defined.
Automatic release	Disable the four-eyes principle. By default, each measurement position needs to be checked and released by a second person. ***See*** Four-eye principle Important: The person entering the measured values is not allowed to release them. If this option is disabled, the measurement position is automatically released, after the field "OK" was set. Electronic signature is not supported at this level.
Group	Select a QC Group.
UDF 1–4	User-defined fields 1–4
Unit	Unit of measure
Image / Color	Select an image / text color to be displayed for the template.

© 2026 Boyum IT Solutions A/S

8.11.6 Blockage Reasons

With blockage reasons you can define the reason of a quality control blockage during the registration of measured values. If a blockage reason was stored for all relevant measurement positions which have "block release" activated, the Sample is automatically marked as "blocked".

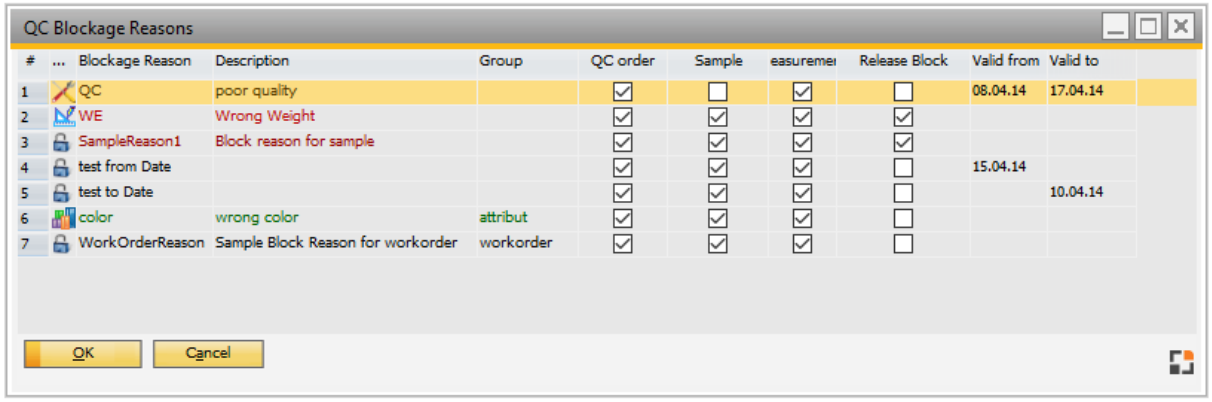
Blockage reasons can be stored in a Measurement position, Sample or in QC-order. Additional settings in QC-inspection plan – rules

Configuration:

List blockage reasons

Edit blockage reasons

PATH: Production > Quality control > QC Blockage Reasons.



Window_qs_sperrgrund_browse.psr

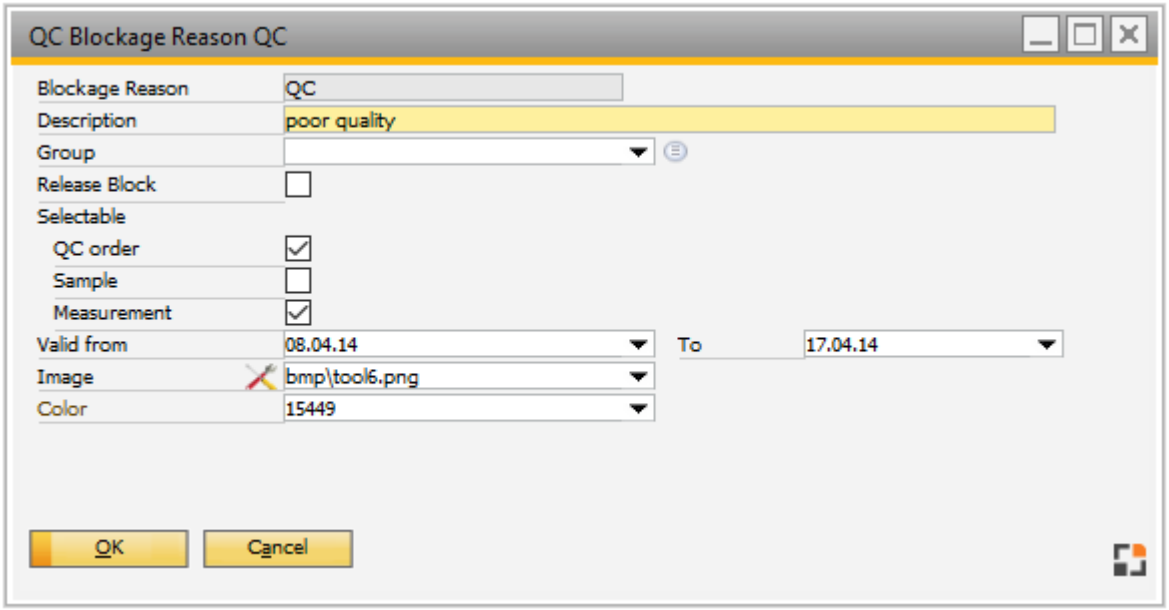
List

Windows settings and Templates supported. Authorization for Edit QC-template required. Field descriptions: ***see*** Edit valuation.

Edit blockage reason

PATH: Production > Quality control > QC Blockage Reasons > **Open** an entry.

© 2026 Boyum IT Solutions A/S



Window qs_sperrgrund_edit.psr

Field	Description
Valuation	Unique ID for blockage reasons.
Description	Description of blockage reasons. Transferred to QC-Order, Measurement position or Sample.
Group	Entry can be linked to a group. Only valuations belonging to the same group QC-inspection plan can be selected.
Release Block	If the switch is enabled and the blockage reason is selected in a measurement position or a sample, the affected entry cannot be released.
Selectable in QC-Order/Sample/Measurement	Determine in which area it can be selected.
Image/Color	Select image and color which are displayed in lists.

Functions:

Remove: Delete current blockage reason.

back to QC orders

© 2026 Boyum IT Solutions A/S

8.11.7 QC valuation reasons

Here valuation reasons are defined, which can be selected in the QC-order.

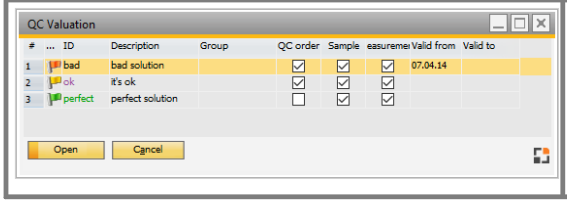
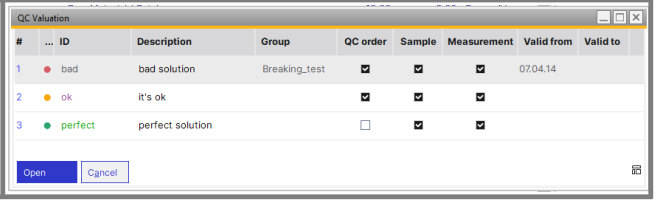
Valuations can be stored in a measurement position, a sample or in a QC-order. Settings in QC-inspection plan – rules

Configuration:

List valuations

Edit valuation

PATH: Production > Quality control > QC Valuation

Traditional style	Boyum Style
	

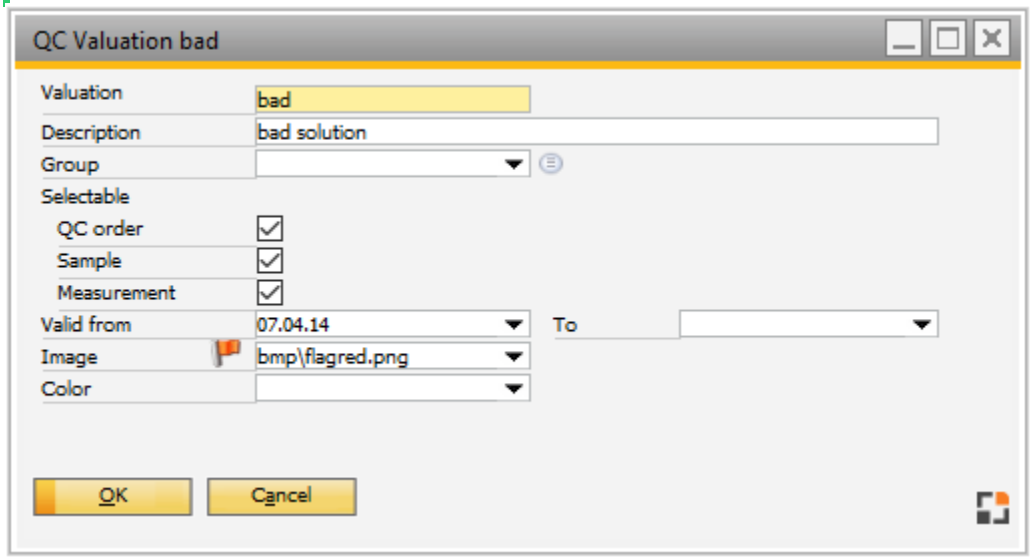
Window qs_qsvaluation_browse.psr

List valuations

Windows settings and Templates supported. Authorization for Edit QC-template required. Field descriptions: ***see*** Edit valuation

Edit valuation

PATH: Production > Quality control > QC Valuation > **Open** an entry.



© 2026 Boyum IT Solutions A/S

Window qs_qsvaluation_edit.psr

Field	Meaning
Valuation	Unique ID for Valuation.
Description	Description of valuation. Transferred to QC-Order, Measurement position or Sample.
Group	Entry can be linked to a group. Only valuations belonging to the same group QC-inspection plan can be selected.
Selectable in QC-Order/Sample/Measurement	Determine in which area it can be selected.
Valid from/to	The valuation reason can be selected only in this period. If no date is stored all entries are selectable.
Image/Color	Select image and color which are displayed in lists.

Functions:

Remove: Delete current blockage reason.

back to QC orders

8.12 Factory data capture

8.12.1 Terminal

Certain functions which are optimized for the use in a workshop are available from the terminal window.

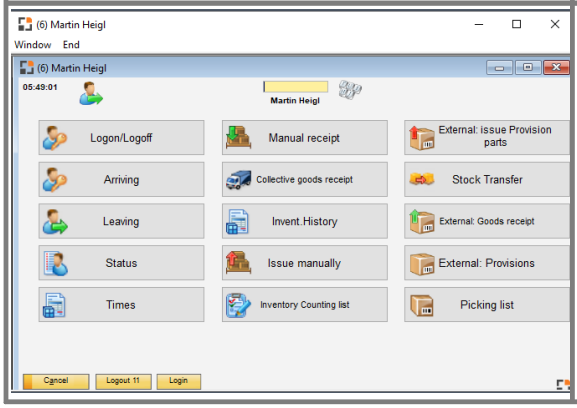
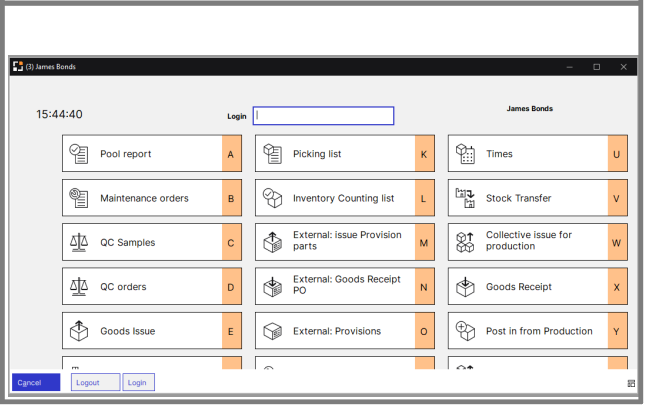
The terminal window is a platform in which any number of apps can be seen.

Login types:

1. Enter personnel-card number to log in.
2. Connect to the Terminal using the SSO (Single sign On) functionality.

To use this login type, send the following parameter in the command line: **sso=true**

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style
	

The terminal can be started via the terminal mode. This requires a windows link called "Beas Terminal".

- Installation

The installation of SAP Business One DI-API 32 Bit and Beas Standard is necessary.

A windows - link will be inserted on the station. The current "Beas" – link can be copied and can be renamed to "beas terminal" for this.
At "Target" will be inserted after "....\beas.exe" other parameters.

Terminal: ID for "Start in terminal mode"
User: The user ID (not user name!), e.g. Terminal1
PW: Password of the user
Database: name of the data base (according to SQL-server)

Important: Blanks are not allowed at "user" and "pw". Blanks have to be replaced with "³", e.g. my³database.

Example:
"....beas\beas.exe\ terminal user=station1 pwd=abc database=trainingdb

- License concept and installation

SAP License rule:
For using the functions of the Beas Terminal, you need a SAP Business One - indirect license.

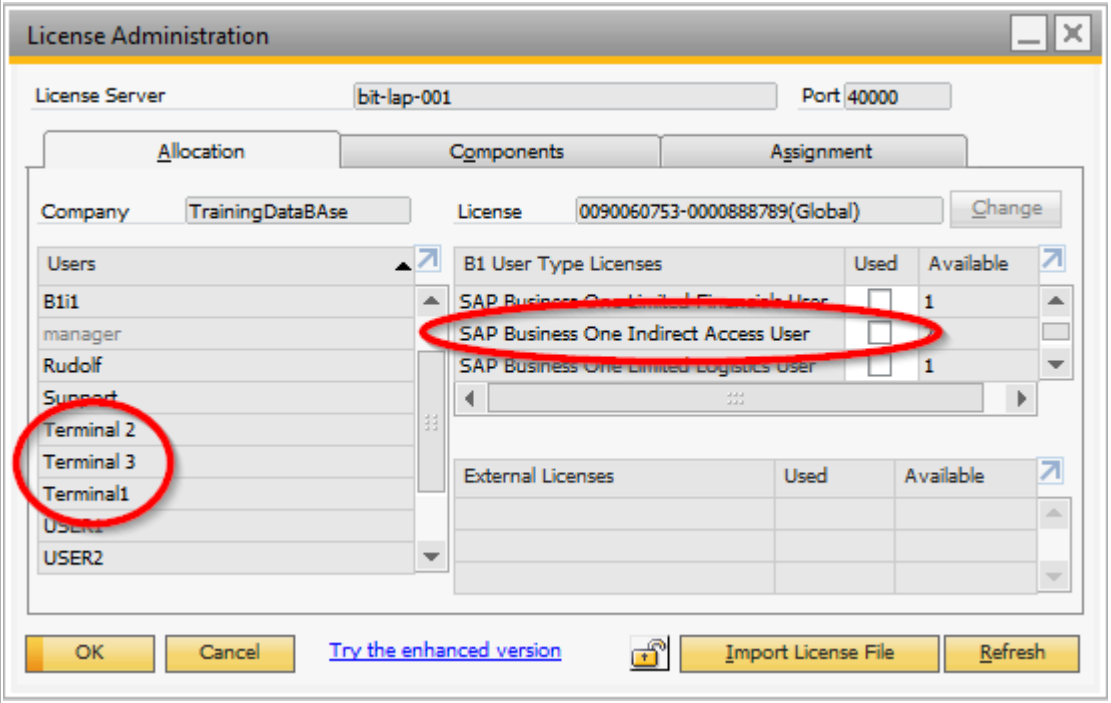
Note: consult also the actual License rules of SAP Business One.

© 2026 Boyum IT Solutions A/S

SAP B1 License for Terminal

For every station you need a separate SAP B1 User, e.c. Terminal1, Terminal2 etc.

For this user you must define the following SAP Authorizations:

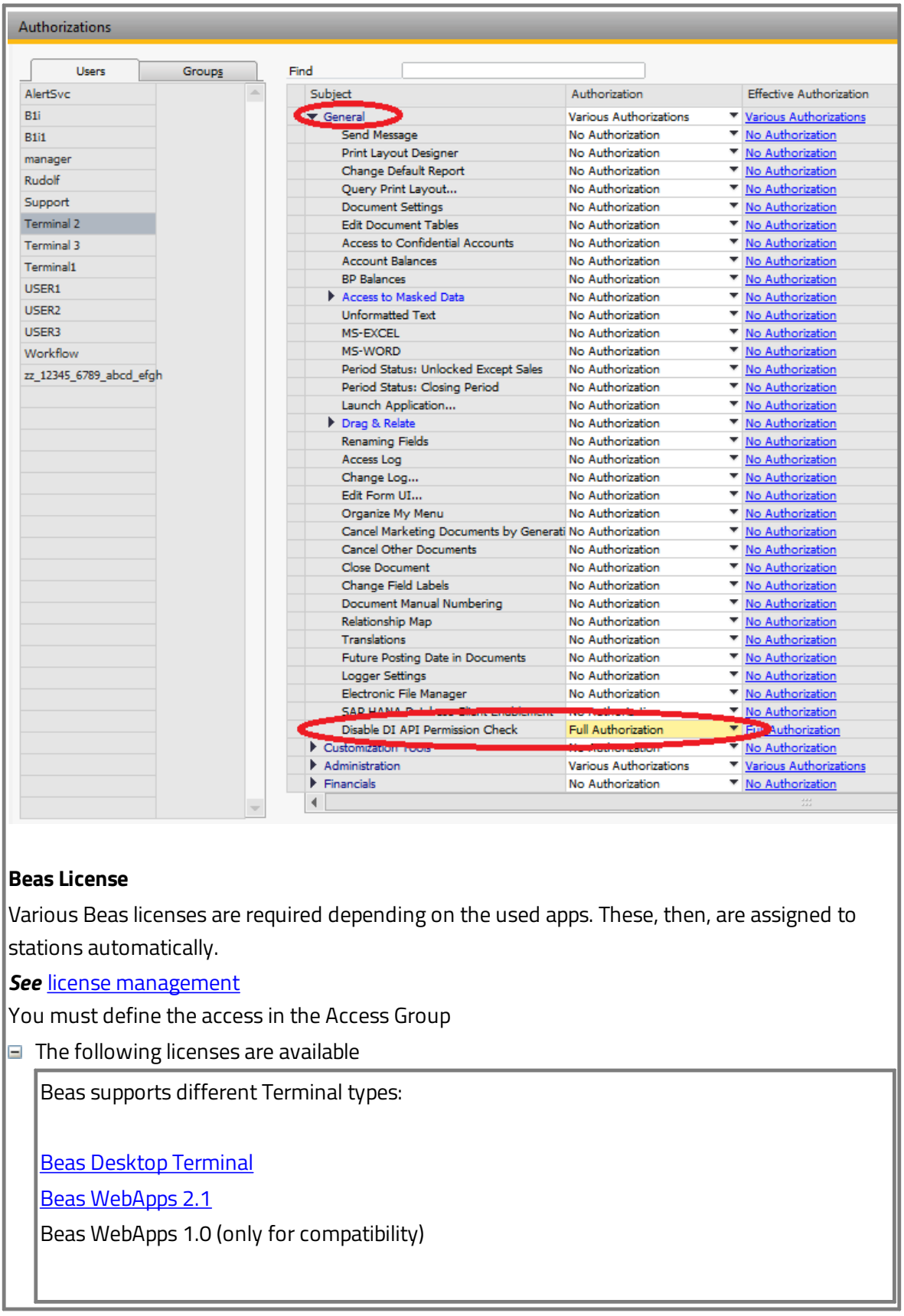


SAP B1 Authorizations

Administration - System initialization > Authorization > General Authorizations

General > Disable DI API PERMISSION CHECK on "Full authorization".

© 2026 Boyum IT Solutions A/S



Beas License

Various Beas licenses are required depending on the used apps. These, then, are assigned to stations automatically.

See license management

You must define the access in the Access Group

- The following licenses are available

Beas supports different Terminal types: Beas Desktop Terminal Beas WebApps 2.1 Beas WebApps 1.0 (only for compatibility)

© 2026 Boyum IT Solutions A/S

All use the same license pool with the same concept:

In **Terminal Functions > Edit Group > Choose apps** you can see the License needed for the apps.

Concurrence of users

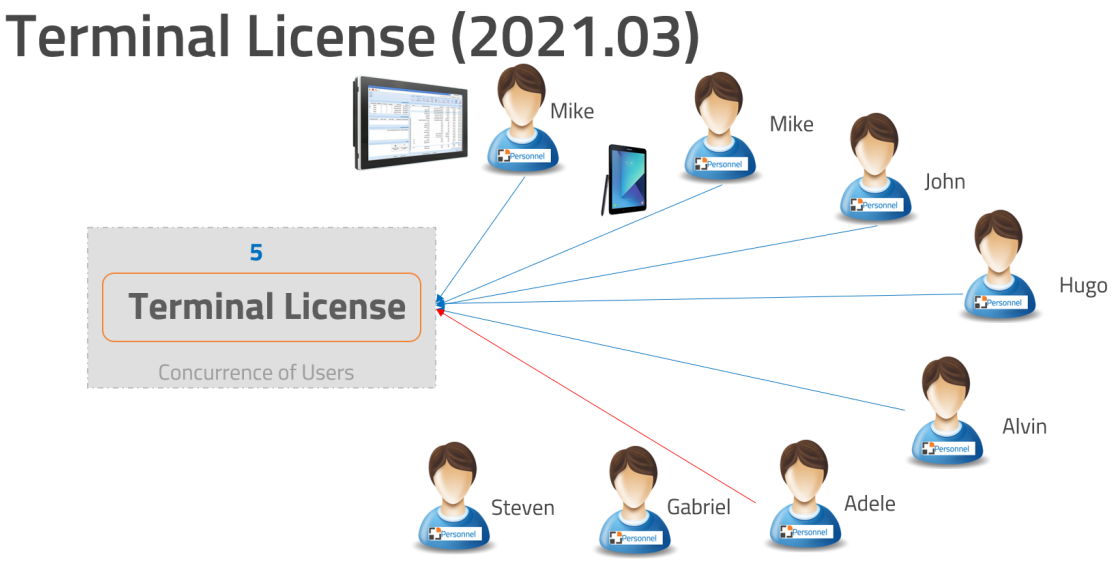
IMPORTANT: User login blocks all licenses that are assigned to the user! These licenses are released for use again once the user logs out.

Licenses can be reserved by user, machine or Beas operators.

See License Administration (Beas)

Article on License administration questions and answers

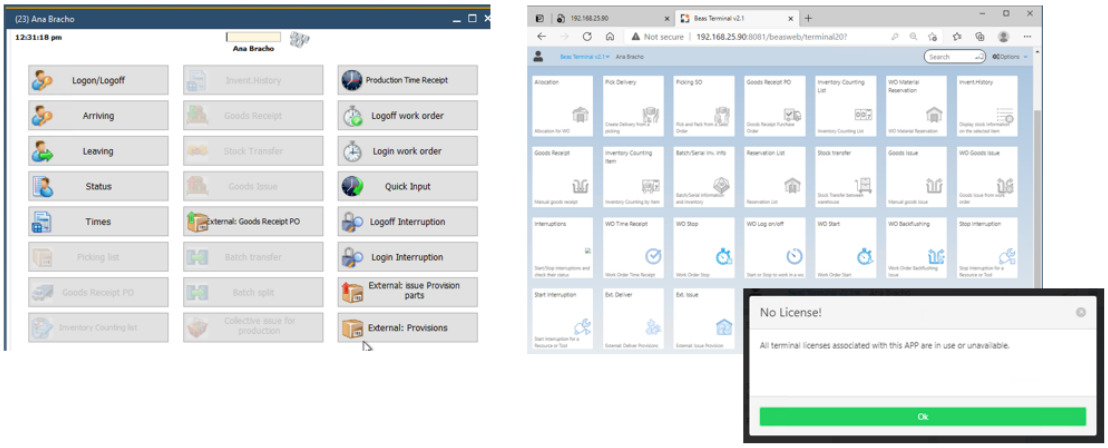
Example: A company has 5 Terminal licenses. Five users are using the 5 licenses each - therefore, the number of available licenses is 0.

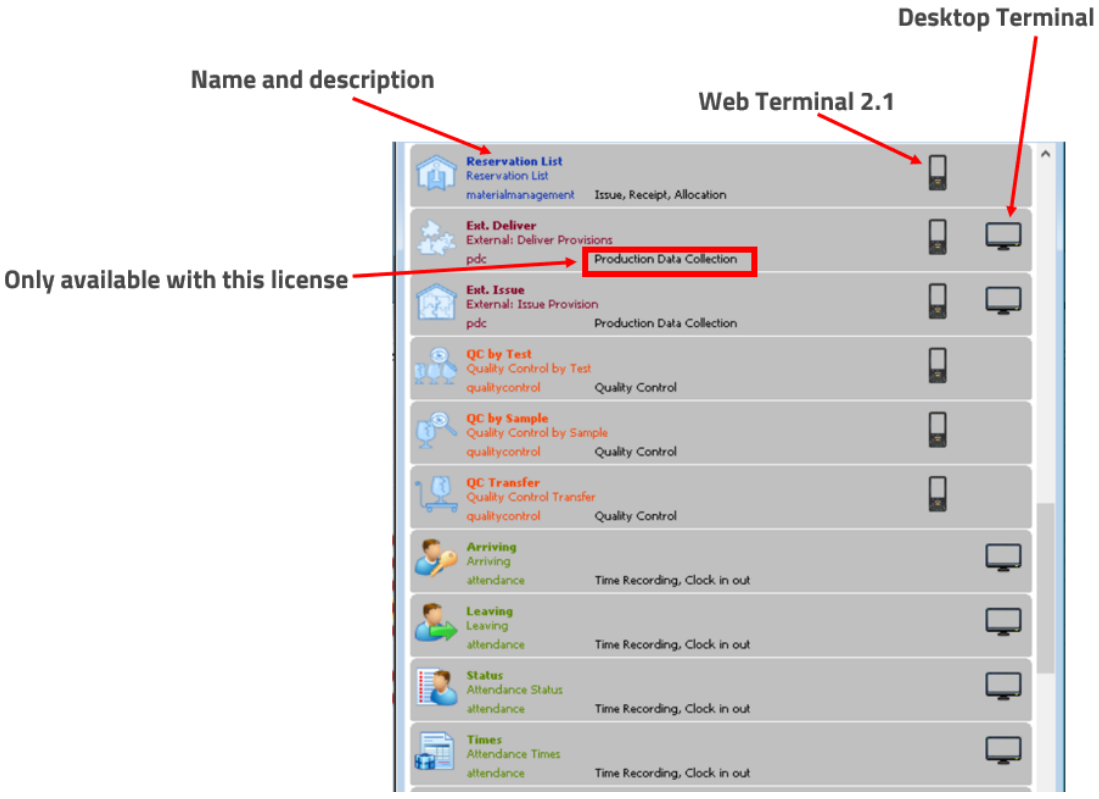


Apps that are not available for the user in lack of license are grayed out (disabled).

© 2026 Boyum IT Solutions A/S

License In Use: *when a license is not available*





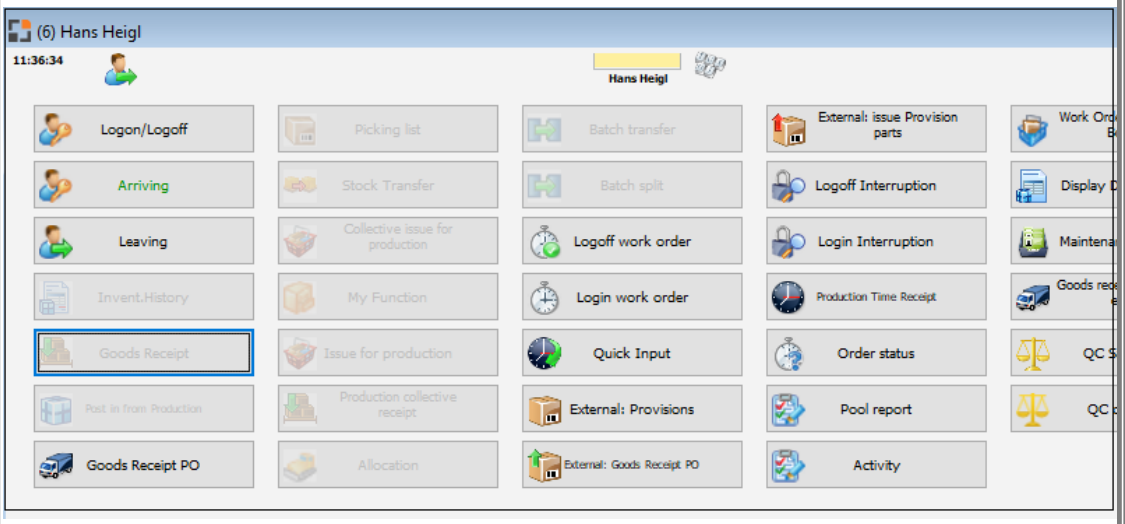
NOTE: Upon login all available licenses related to the authorization groups will be set as "In Use".

Desktop Terminal

If you start the Desktop Terminal, you do not need any license.

© 2026 Boyum IT Solutions A/S

If you login in Desktop Terminal, the system tries to use needed licenses. If available, the license will be reserved. If not, the app needing the license is grayed out. If you hover the mouse over or click on the button, you can see the info that the license is not available.



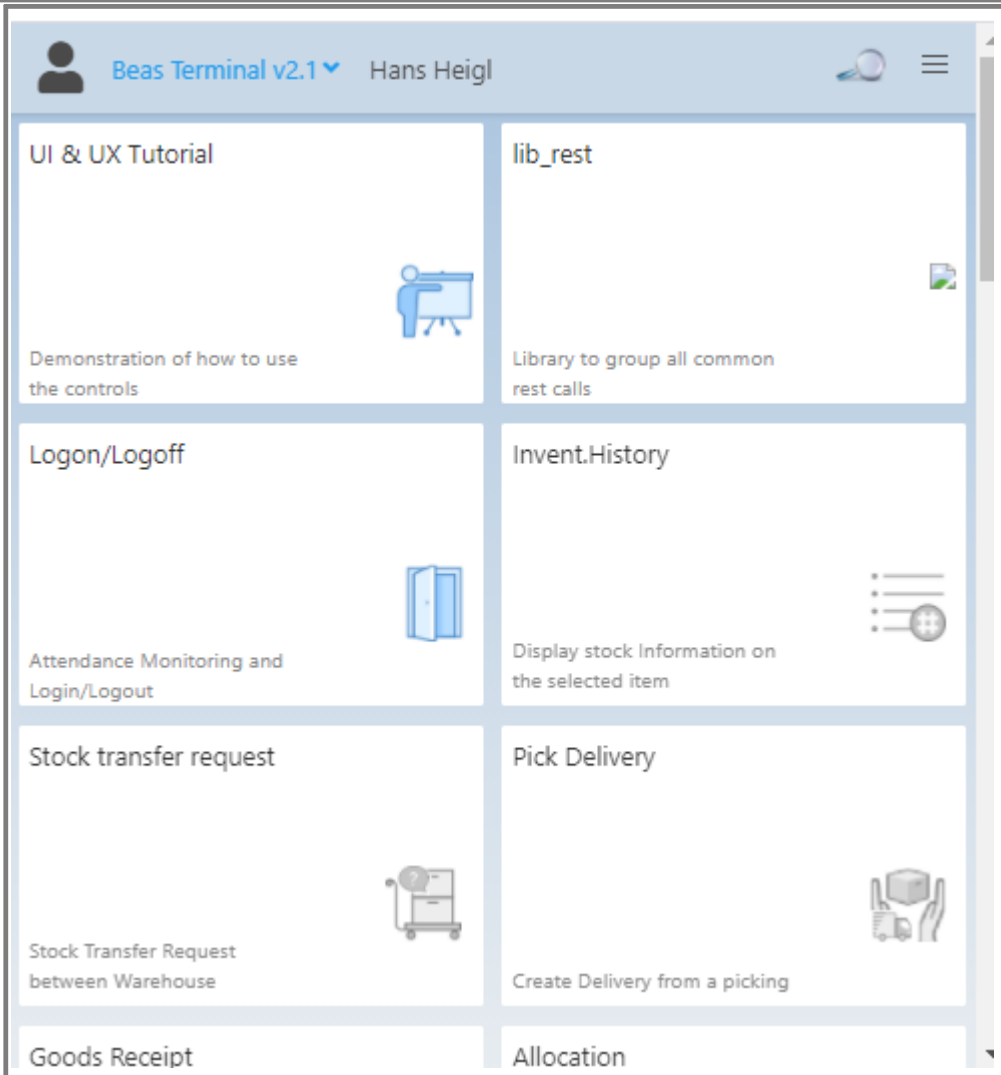
WEB APP

In WEB APP the license is reserved in the moment of Login.

Note: The user must choose "Logout", otherwise other users cannot use the license up to 10 Minutes.

If the license is not available, the system displays the APP in gray.

© 2026 Boyum IT Solutions A/S



Note:

Do not try to manipulate the system. If you delete the license information, the back-end will not work correctly.

ATTENTION: If you close WebApps without logging out, the system keeps the license in use for several minutes. After that the system automatically releases the license.

- Time Synchronisation

© 2026 Boyum IT Solutions A/S

The terminal does use the server time, not the time of the client. Time zone settings of Windows **System - Time zone** is taken into account.
For permission reasons Beas does not synchronize with the time of the operating system. It may be that on the client a time is displayed which is different from the terminal program.
The terminal program synchronizes with the server in 30 minute intervals. This way, a correct time is always guaranteed, as long as the time on the SQL server is set correctly.

Logon:

Enter card number to log in. All released apps are displayed. After 60 seconds of idle time, the user is logged off automatically. This timeout can be set up.
At logon it is checked, which applications are to be used. (set up in Station settings). If a person logs on, it is checked, whether a satin specific menu was set up. If there is none, the menu is used, set up in Personnel master.

Note:
As long no Authorization group was created, Standard-Apps are displayed. After an authorization group was created, you need to store on in Personnel master of an employee, otherwise they will not have access to the Terminal
In station settings, you can set up: Control (mouse/keyboard), Image (Logo), preview screen, menu.

Right-click menu:

Function	Meaning
Cancel	Terminal is closed. If started in terminal mode, the user needs to enter their card number before, to prevent an accidental logoff. Note: If the terminal is not started in terminal mode and another user logs in there than in the application, all postings and material movements outside the terminal screen are connected to the user who logged in to the terminal. This situation continues until a logoff in the terminal screen.
Logoff	Employee logs off immediately. The ESC-key can also be used. After 20 seconds of idle time, the user is logged off automatically if no other window is opened. This logoff time (timeout) can be changed in the Work station settings.

© 2026 Boyum IT Solutions A/S

Function	Meaning
	For attendance time registration, a shortened timeout can be activated in Configuration wizard - Attendance - Terminal.
Zoom	Only in Terminal-Mode: "Zoom"-Function accessible via right-click or Ctrl+Z. Enter a value between 90 and 170 to apply a zoom factor (in percent) All sub-screens are affected.
Mode: Keyboard	Switch to keyboard control. For each button a letter is displayed to call the function. This settings can also be set up globally for all work stations in Station settings wizard - Edit.
Mode: Mouse	Switch to mouse control, optimized for mouse or touchscreens. This settings can also be set up globally for all work stations in Station settings wizard - Edit

see

Personnel master data

Program group Administration

8.12.2 Production Time Receipt

This menu option can be used to call the receipt window for manual time receipt.
If data is entered via bar code, this is recorded in the Bar code field. After the first input, the cursor remains in the Bar code field for each new input.
Only new entries are possible; existing entries cannot be changed.

The behavior of the visible fields is set up in **Configuration Wizard > Production > FDC - Time receipt view.**
All other rules can be configured in **Configuration Wizard > Production > FDC.** The login rules are not considered.
Further rules are stored in the operation itself (***See* Master data > Edit Item Master > Routing** - in the tab Extended).
WMS Integration: Produmex WMS Batch attributes are supported.

This window can also be reached from:
- Manage production times

© 2026 Boyum IT Solutions A/S

- FDC time receipt
- Work order structure - Right-click on routing position – Create receipt
- Production list - Double-click on a receipt report
- Terminal – Close work order

Note: Because material postings and journal entries are created, extended rights in SAP B1 are required if you do not work with the terminal solution.

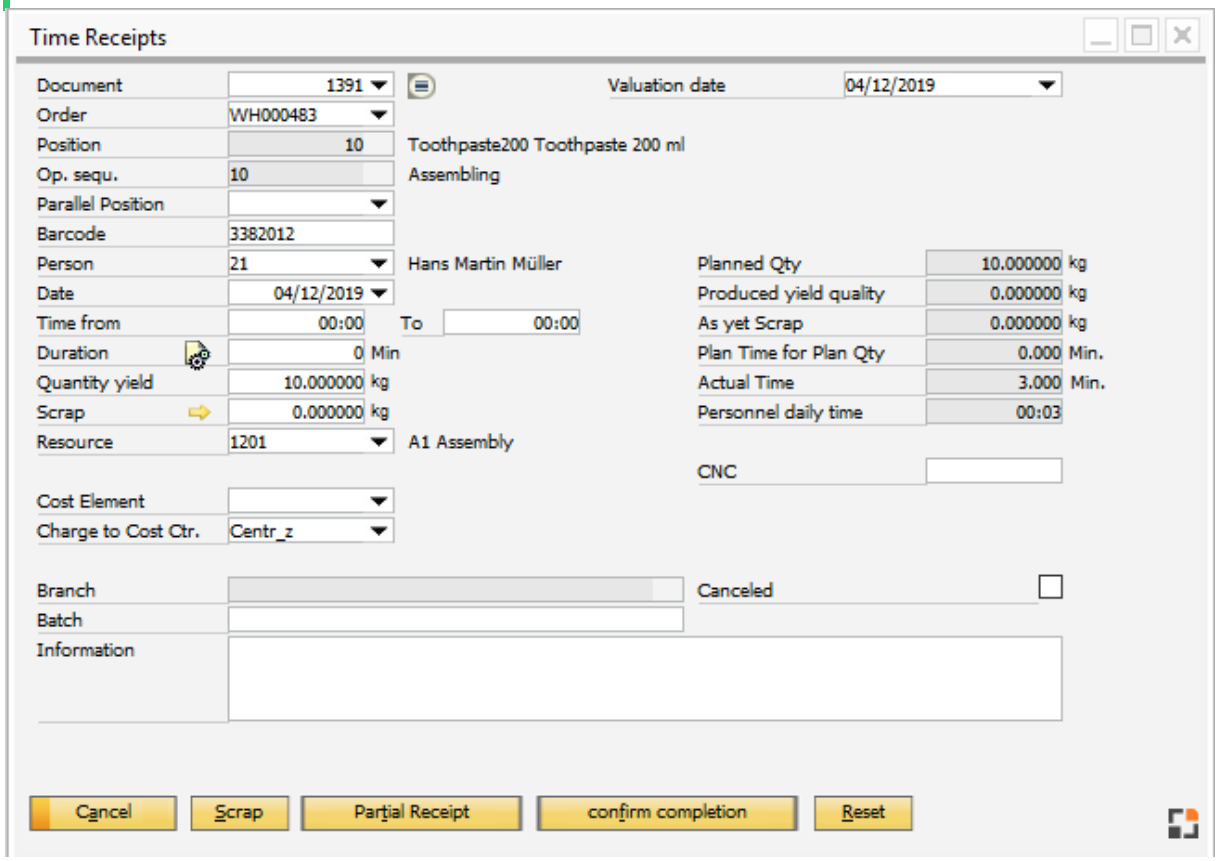
See Mandatory SAP-B1 rights

Material posting, assembly posting

With a report, material is also issued where applicable or the assembly received. For further information ***see*** Material posting.

The "Exceeding planned quantity allowed" Configuration parameter affects Production Time receipt: Minimum/Maximum values are related to receipt quantity.

PATH: Production > Factory Data Capture > Production Time Receipt

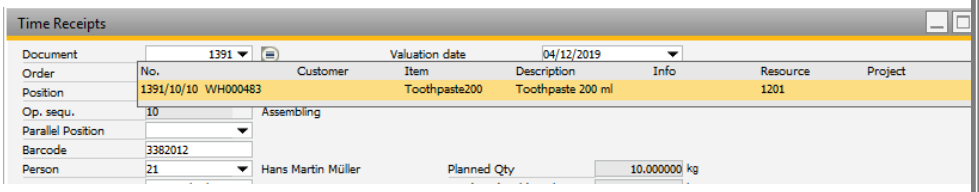


Window fert_arbzeit_erfassen.psr

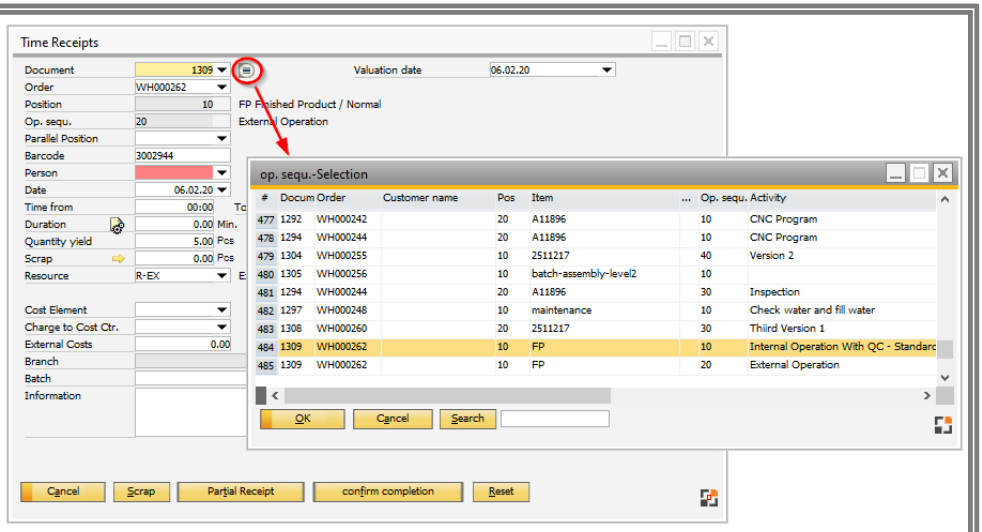
© 2026 Boyum IT Solutions A/S

Choose Routing position in time receipt window

Field Description

Field	Description
Document	Search by Work Order Number (Order Number) Search work order by work order document number. In this field there are always 2 modes to choose a work order. **Drop-down Icon:** Search for work order, on which you made last time receipts. ***Example***: There are employees working many times on the same routing positions and thousands of open routing positions. In this way you can simply find your last routing position. The system searches for the last 190 time receipts and groups them by routing position. This only works if the personnel number is defined.  **Choose by Icon** If you click on the icon, the system displays all open operations. The system does not check any rules. All open routing positions are displayed. Window settings and templates are available.

© 2026 Boyum IT Solutions A/S



Window fert_arbzeit_erfassen_afoauswahl.psr

Valuation date	Enter the desired valuation date Material postings are carried out on this date. Determining the resource costs is independent of the valuation date. The current costs are always used. ***See*** Resource costs Post-calculation – last movement; refers to the valuation date, even for order time receipts. If the order date was changed, the valuation date is adapted as long as the order date is not set to the future. The valuation date can be changed any time, independent of the order date.
Work Order	Work order number. The drop-down field lists all open documents. When selecting a number, the order is opened. When entering a number, the first open work order with that number is opened.
Position	Work order position of the selected work order.
Op. sequ.	Operation sequence position to be reported. **Master-Slave operations - time receipt creation** **IMPORTANT NOTE:** When the user defines Master-Slave operations when creating a Time receipt for a "master" operation, Beas first generates all Time receipts for the slave operations, and *then* the time receipt for the master operation.

© 2026 Boyum IT Solutions A/S

	Due to this sequence, if something fails during the time receipt process of the master operation, the previous Time receipts are **not** rolled back.
Parallel position	Selection of a parallel resource in case there are parallel resources defined in the routing. **NOTE:** Parallel operations do not consider quantities and do not manage Open/Close status! Time receipt creation does not close a parallel operation.
Barcode	Unique number to identify the work order number, position and operation. If the user enters the bar code, the work order number, position and operation are recognized. This is a fast way to identify the operation in a work order routing. The Barcode is stored in the operation and is printed on the production document. Also displayed in Work order routing – Position – Extended – Barcode *(BEAS_FTAPL.NUMMER)* and in Parallel Resource *(BEAS_FTAPL.NUMMER + BEAS_FTAPLWKZ.POS_ID)*
Person	Personnel number of the employee who performed the work (configurable in **Human resources > Personnel**) Entries are checked for validity. A card number can also be entered to search for personnel number (in case it exists). The selection list is sorted by name, first name and middle name. Only employees with login authorization are displayed at a work order.
Date	Date of the time receipt. "Date To" is only visible if multiple date entry is configured. ***See* Configuration Wizard > Production > FDC > time receipt View > Multi-day Input.**
Time from-to	Optional start and end time of the activity. The duration can be reported without time from / to. After the time is provided, the duration is re-calculated automatically. Visibility of the fields can be stored in the settings.
Duration	Duration of order time. This can also be changed after automatic calculation. Data is input in time hours, time minutes or industry hours. NOTE: Beas does not support entering times in any units smaller than minutes, e.g. seconds/milliseconds and so on.

© 2026 Boyum IT Solutions A/S

The type of the entry is selectable of the input via the gear symbol / .
This setting is station-specific and can only be entered in the input screen.

- Note on industrial hours:

  Full minutes are used, seconds are not supported. The entered time in industrial hours is rounded down to normal minutes.

  Example: 14,09 → 14:05 Minutes and 24 Seconds. Rounded to 14:05, equals 14:08 Industrial minutes

In case of automatic calculation, additional rules are considered which can be stored in the Configuration Wizard.
See Time linking, parallel calculation.

See the option "Calculation result" to see how the duration was calculated.

Reported time is subtracted from reserved time immediately. This is displayed in graphical resource utilization display, in the bar right below, in the work order structure and in other windows.

Note: Time receipts can only be entered in minutes. For planned times, more digits can be entered because of multiple quantities.

- Display calculation results

  Use the cogwheel icon to display the result of the calculation, to see how the duration was computed and which factors had an effect.
  Function is available from *beas 9.1 PL: 07*

- Why is time receipt not available in millisecond accuracy

  This feature is a factory data capture, not machine data capture.

  For capturing machine data, connect an MDC-device. Beas offers an interface to ILS. The MDC device can register times in seconds or milliseconds. Then, you can run evaluations. The MDC-device only transfers to Beas the start/end-time, yield and scrap quantity.

© 2026 Boyum IT Solutions A/S

	Negative cycle time Another possibility of cancellation is to enter negative cycle time. This is only possible if no costs were stored. At order log-off negative values are blocked. You can enter negative values only in production time receipt.
Quantity yield	The produced, defect-free quantity in receipt units If backflushed material is assigned to the routing position, the material is automatically posted with the appropriate quantity (yield quantity + scrap rate). In the case of the last reportable routing position: • the appropriate number of the assembly to be produced is received (converted to units of store), if in **Configuration Wizard > Production > Valuation and Posting of Assembly > Posting > Booking Finished Items when > Like Material (Last Operation or Backflushing)** is configured. • the production position and the work order are closed – depending on the setting under **Configuration Wizard > Production > Valuation and Posting of Assembly > Close production position** **Specification of the quantity to be reported:** The quantity to be reported can be specified. This is activated in **Configuration Wizard > Production > FDC > Login Rules > Suggest Remaining Quantity**. The planned quantity is then proposed minus the previously reported yield quantity + scrap quantity. If **Maximum previous quantity reportable** is also activated in the same area, the yield quantity reported in the preceding reportable routing position minus the quantity reported to this previously reported yield quantity + scrap quantity is proposed. **Unit of measure** For time receipt, the unit stored in the operation is used. If not set up, the consumption unit of the assembly is used and is converted, if it is different from the warehouse unit (order time to consumption unit and material to warehouse unit). ***See*** Edit routing - Extended. Material is posted with this quantity ***see*** Material Entry.
Scrap	Scrap quantity in reporting units

© 2026 Boyum IT Solutions A/S

	Quantities that are considered rejected during the process. If a goods issues process links to the time receipt, this quantity is considered as total scrap quantity at the goods issues. Use the orange arrow to enter a scrap reason. A new window opens to select scrap reason and quantity. Scrap reasons need to be defined before they can be used. If you want to make further use of the scrap material in **Configuration wizard > Production > FDC > view time receipt –** there is a possibility to **post back scrap material**. Enable this, to get a list of issued items in the Cancellation screen after the issue is processed. In this screen scrap quantities can be allocated and posted back to the original warehouse. Material is posted – ***see*** Material posting. Entry quantity is in entry units defined in the operation sequence. ***See*** Production – Routing – Extended – Time receit unit **Note:** If working with scrap, Cut-off and scrap may not be considered in the planned quantity, because otherwise the material would be posted twice. In case of incorrect settings, a warning screen opens once per program start. ***See*** Configuration wizard – backflushing.
Resource	The resource or machine on which the work is performed The cost rate of the activity comes from the resource. If a resource group was defined at the routing, a resource must be selected from the specified group on the time receipt. Available resources depend on personnel settings. Only resources allowed for each employee in **Human Resources > Personnel > FDC Tab** can be selected from the drop-down list. **NOTE:** The default data loaded by the system may contain a resource that the selected personnel has no rights to. By default, Beas allows a time receipt to be created for this resource. To avoid this situation, and block this resource from the list, you can add the following customization: Production Time Receipt resource selection codes: fert_arbzeit_erfassen.src fert_arbzeit_erfassen_afoauswahl.src

© 2026 Boyum IT Solutions A/S

	See Personnel master
Time Type	Time type of the time receipt If time types are stored in the resource, the time type (setup time, processing time and so on) can be selected. If the time type is changed, the cost element of the routing position is entered into the Cost element field. ***See*** Configuration wizard – Master data – Resource – Time types Concept time types
Cost element	Cost element to which the costs are to be posted. Entry is determined automatically according to the information of the resources and time type. It is possible to manually change the selection. ***See*** Cost elements
Cost Center	The cost center to be charged The default cost center can be defined in **Configuration wizard > Production > FDC >** Cost Center determine by If a journal entry is set up in the time receipt, the cost center applies to the journal entries created by the time receipt. Yet, this cost center does not apply to material transactions. For material transactions, the system reads the cost center from the item.
Branch	The branch that the time receipt is made from The branch from which the time receipt was made. If the multi-branch solution is activated, the branch is displayed in which the order time receipt was created. Only the branches, that are stored in a work order position can be used for time receipt.
Batch	The batch (temporary batch for the reported quantity) **Note:** This batch does not affect the batch number of the assembly. The information is for reporting purposes only. This field is used if working with a temporary batch. Beas does not take this input into account. The batch number can be displayed in various time reports using the right-click menu window settings option, marking the batch field.

© 2026 Boyum IT Solutions A/S

Canceled	Marking: Message canceled Under certain conditions it is not possible to delete an order time receipt. It can only be canceled at that point. Canceled time receipts are hidden in most evaluations. In work order structure they are displayed in gray. A cancellation cannot be undone. A time receipt is canceled instead of being deleted if the cost elements are stored in the operation which creates the journal entries. Thus, the order time receipt is linked to a journal entry. For better traceability, it is possible to enable **Configuration Wizard > Production > FDC > Order Time Receipt: protocol.** In this case, a journal entry is created for every time receipt, even for time receipts without a cost.
Information	Free text for information.
Price	For external operations: the costs incurred.
Logout attendance	If active, the employee is logged off from attendance automatically This field is only visible if attendance linking is activated in the Configuration Wizard. For further information ***see*** Attendance linking.

UDF 1–15	User-defined fields
	UDF 5–15 fields are not visible in the window.
	
	Make UDF5-15 fields visible:
	The user can create text boxes and link with those fields or assign them via BeasScript:
	
	`dw_1.item.udf5.value=prueba`
	`message=<dw_1.item.udf5.value>`
	
	Create a text box in the window and link it with UDF5:
	`windowevent open`
	`//Create a field for codebar`
	`create=column=x=2030,y=80,width=457,height=52,id=udf5,name=udf5`
	`create=text=x=1445,y=80,width=562,name=udf5_t,text=UDF5 example`
	`end event`

© 2026 Boyum IT Solutions A/S

	The system saves the information automatically when the time receipt is created.

The following are displayed on the time receipt screen, but can be deactivated:

Field	Description
Planned Qty	Quantity to be produced in receipt units.
Produced yield quality	Quantity previously reported defect-free in receipt units.
Produced Scrap	Previously reported scrap.
Planned Time for Planned Quantity	Default time.
Actual Time	Previously reported time.
Personnel daily time	Time reported today for the selected person.
Tool	Field is only displayed, if a tool entry was found which determines lead time. In this case, all active tools are displayed for the selection.

Button	Description
Delete	Delete time receipt Only available if working in change mode and if the work order item has not yet been closed. **Note:** If a cost type is stored with accounts, a journal entry is created. On deletion, a reversing entry is made first to this booking. For more information ***see*** Production Time Administration. **Important:** Existing time reservations are not restored. Re-scheduling may be necessary. To make all confirmations comprehensible, a cancellation can be performed instead of a deletion. This can be activated in Configuration wizard > Production > FDC > Production time receipt: block deletion This function has the following effect:

© 2026 Boyum IT Solutions A/S

	• It is no longer possible to remove the operation sequence from the work order structure window. • The operation is not be deleted but canceled. Time and quantity is set to 0, and the cancellation switch is activated. A canceled order time receipt can no longer be activated. If costs are booked at the moment of time receipt creation, this option should be enabled. Canceled order time receipts have no value and they are not displayed in lists (for example, post-calculation). In the work order structure view, the canceled entries are displayed in light gray. ***See*** Webinar: Adjustment user mistakes at the work orders 10/2017 At cancellation these values are entered to the activity log: • Key1 = "cancel" • Key2 = Duration (minutes) • Key3 = Yield Quantity (in assembly unit) • Key4 = Scrap (in assembly unit) • Key5 = Costs to marginal costs • Key6 = Costs at full cost • Key7 = Assignment to the journal entry, if existing
Scrap	Opens a new window to provide the scrap quantity and scrap reason. The total quantity is transferred to the scrap quantity at the time receipt.
Partial Receipt	Create a new, partial receipt Creates the time receipt document without closing the operation. Users can continue reporting at this operation. Only available at a new entry: • Saves the order time • Posts the assigned, backflushed material. ***See*** Material Entry • If it is the last routing position: post the assembly to be produced In case of the last routing position a security prompt is displayed: With this time receipt the assembly will be posted. Continue? (Id ftpos_lastafo239545).

© 2026 Boyum IT Solutions A/S

	This prompt can be disabled in Configuration wizard Note: if "Close operation sequence automatically" is activated and total receipt quantity + scrap quantity >= planned quantity and no additional employee is working on this operation, the system closes this operation and ignores that you clicked on "Partial receipt".
Intermediate report	Intermediate report, behavior of this button depends on these settings.
Confirm completion	Creates the time receipt document closing the routing position. Workflow: • Saves the order time • Posts the assigned, backflushed material. ***See*** Material Entry • If it is the last routing position: post the assembly to be produced • Close routing position If another is working on this routing position in parallel, it is not possible to close the routing position. The system returns an error message "*(bdeostmp45) There are Clock times for this Operation! Cannot close!*" Close work order position automatically If this is the last operation and If "close work order position automatically" is activated, the system closes the work order position. For more information ***see*** Configuration wizard Note: The system does not check the quantity. If you post 0 from 10Pcs and click on "Confirm completion", the system closes the work order position, too. If "Close work order automatically" is activated, the system closes the complete work order if all work order positions are closed.

© 2026 Boyum IT Solutions A/S

	NOTE: If it is the last routing position, it closes the production position including any necessary journal entries (WIP balancing) After closing, it is not possible to report any other information at this operation. The button "**Confirm**" is only visible if the following conditions apply: • the operation is not an overhead order. ***See*** Production types • no other employee is currently logged on to the operation • in the respective time type close operation is not disabled. ***See*** Configuration wizard – master data – resource – time types • only when creating a new entry
Save	Saves the changes. Only available in change mode. **Note:** If a cost category is stored and in turn accounts are stored in the category, a journal entry is made when creating the report. If the order report is changed, the journal entry is canceled, and then a new journal entry is created with the new values.
Change log	List of all changes. ***See*** Change log.
Time protocol	Detailed protocol, of how the duration is calculated.

Note: If the production position is closed, time receipt can no longer be changed.

Videos

Function: Open material issue form from time receipt window

Change log in the database

Every change is logged in the change log. As the costs cannot be changed directly, because they are calculated automatically, if a change is made a separate data record is inserted with the following content in the information field: "Change to information: Marginal costs previously ... new, full costs previously ... new"

© 2026 Boyum IT Solutions A/S

The new key fields contain:

- Key1= “change info“
- Key2= duration (minutes)
- Key3 = yield quantity (in assembly units)
- Key4 = scrap (in assembly units)
- Key5 = costs at marginal costs
- Key6 = costs at full costs
- key7 = assignment to journal entry, if available
- key8 = allocation to cancellation journal entry, if available

8.12.3 Work order Backflushing Booking

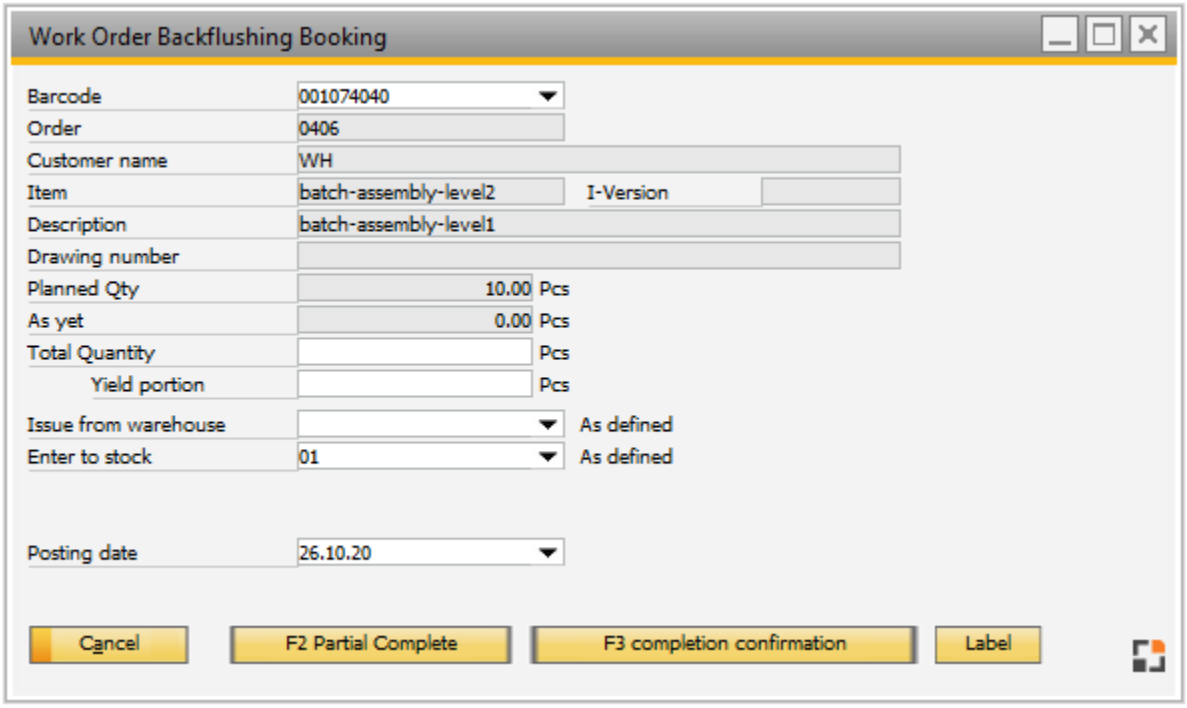
With this function you can create a receipt for the finished goods item and backflush all necessary materials.

For this you only need:

- Bar code of the work order position

- Quantity

PATH: Production > Factory data capture > Work Order Backflushing Booking



fert_retrograd_abbuchen

© 2026 Boyum IT Solutions A/S

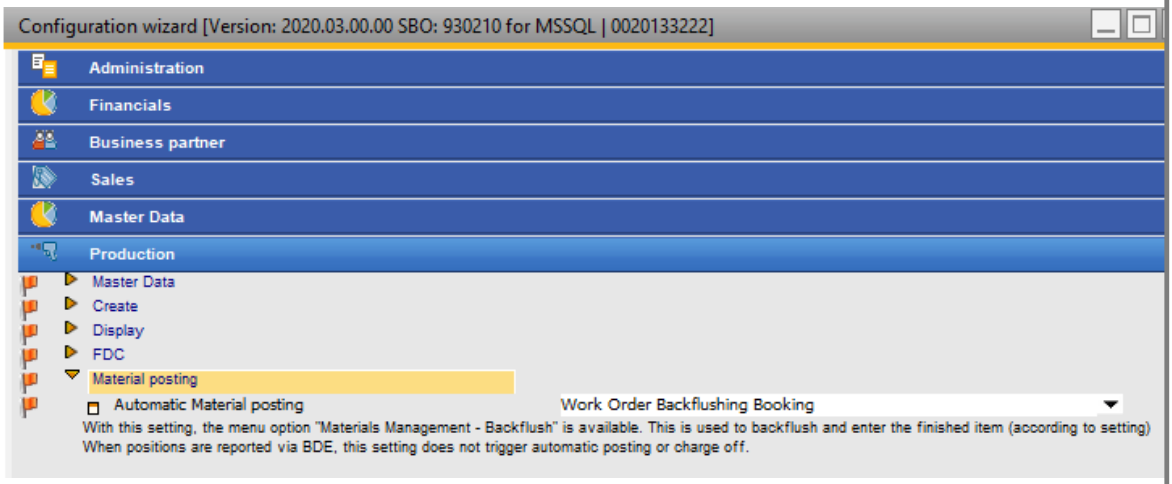
Backflushing is used to automatically remove material that is allocated to a work order and is marked as "backflush". The work order is selected for this (alternatively, the routing slip bar code can be scanned). Then, you specify the total quantity to be reported and the yield to be received. After inputting the number of units, the corresponding quantity of materials is issued and the finished good is entered.
The material is issued from the inventory location stored in the BoM and the primary item inventory, respectively. If an inventory location is specified for "Issue from storage location", the material is posted from this inventory location.

WMS Integration: Produmex WMS Batch attributes are supported.

You can use this window only if this window is activated in the Configuration wizard.

- Setup

In the Configuration wizard you must activate **Production > Material posting**: **Work Order Backflushing Booking**



Note:

It is not possible to use this window in parallel to the backflushing functionality on the last/first routing position!

In **Configuration Wizard > Production > Material posting > Backflushing** you can define all additional Backflushing options.

The "Exceeding planned quantity allowed" Configuration parameter affects WO material backflushing: Minimum/Maximum values are related to receipt quantity.

Setup: Configuration > Production > Work Order Backflushing Booking

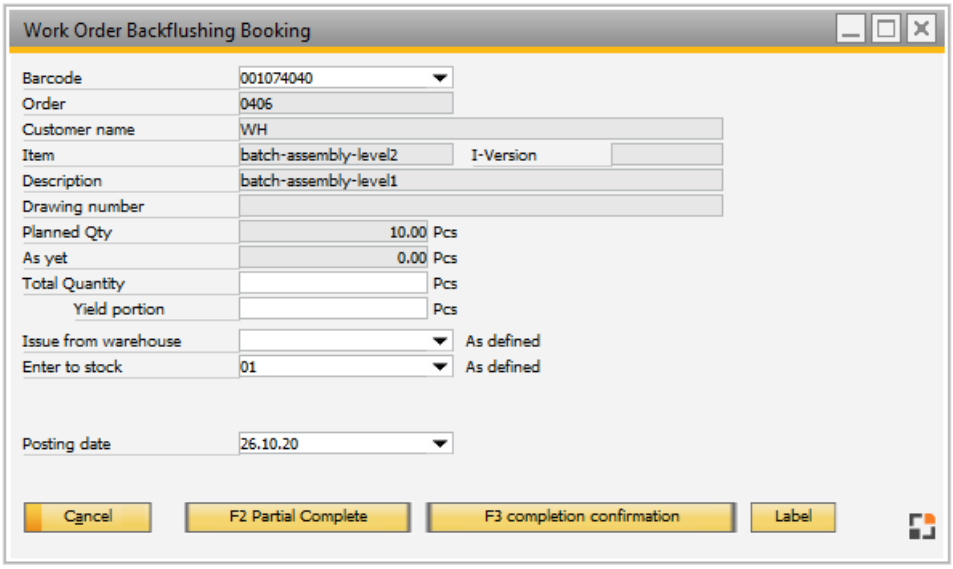
© 2026 Boyum IT Solutions A/S

These settings affect the following functions:
- Desktop version Work order backflushing
- WebApp WO Backflushing
- Manual receipt window.

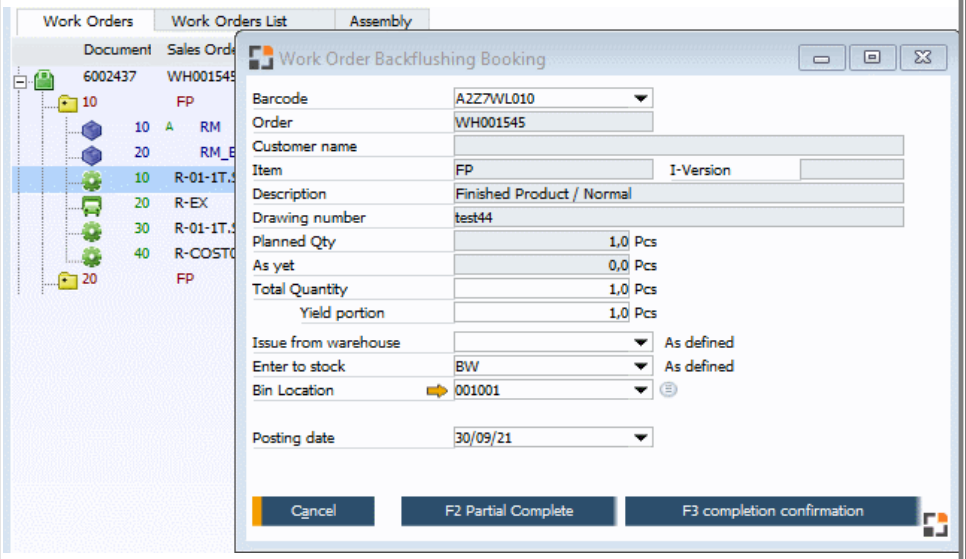
They are visible only if in Configuration wizard > Production > Material posting > Material posting automatically at "Work order backflushing" was selected.

PATH: Administration > System Initialization > Configuration wizard > Production.

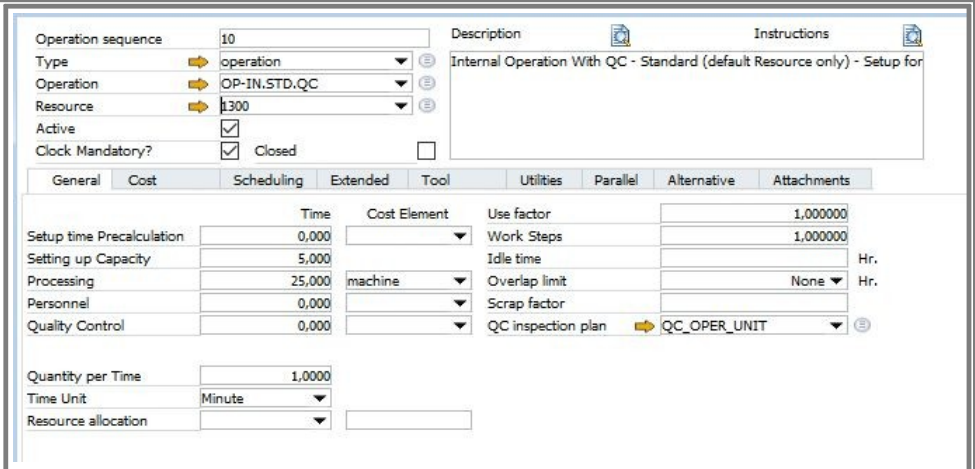
Parameters

Name	Description
Selection warehouse location issue Selection warehouse location at receipt	Activate the warehouse fields for issue and receipt process in backflush window Standard: use default warehouse defined in work order or in issue process related to issue rules. If you activate this setting, the user as additional fields: "Issue from warehouse" and "Enter to stock"  Note for receipt: If the receipt warehouse is changed, problems may arise with the WIP account. That is why this option should not be activated when working with different warehouse-dependent WIP accounts.
Book times	When active, planned times are reported as actual times confirming the last

© 2026 Boyum IT Solutions A/S

Name	Description
automatically	position. If this option is activated, the times are also automatically booked in the backflushing process.  This function is available in Work order backflushing WebApp WO Backflushing Manual receipt for work order (only if ".. to employee" is defined !) It creates time receipts for the following routing position: - Clock mandatory is activated - Routing position is active - Duration time is defined - Routing position - Extended - "Block login" is disabled. **The default time is computed as follows:** First confirmation: `(planned processing time per unit * reported quantity) + setup time` Second confirmation: `(planned processing time per unit * reported quantity)`

© 2026 Boyum IT Solutions A/S

Name	Description
	 Setup Time: field "`Setting up Capacity`" Planned processing time: field "`Processing`" For correct calculation, the system checks Quantity per, Time Unit, Use factor and Work steps. "`Personnel`", "`Quality Control`" Parallel resources are supported. Fix times (Quantity per time=-1): The system calculates `Processing time / reported quantity` Only Cost type for processing is supported. Master Slave settings are ignored. The system creates the time receipt for all routing positions. Quality control orders in Routing positions are supported. Start/End Date for time receipt is Current or the Date defined in the receipt/backflushing window. Employee in time receipts is the currently logged in employee. For more information ***see*** setting "..to employee no" below. **ALTERNATIVE METHOD** As an alternative, use the option in **Configuration wizard > Calculation > Post-calculation > "Plan=Actual if no time receipts"**, or use the valuation method in **Configuration wizard > Production > Valuation and Posting of assembly - Valuation -** planned costs.
... To	Only displayed if option above "Enter times automatically" was enabled.

© 2026 Boyum IT Solutions A/S

Name	Description
employee no	Define t the employee number can be entered here for automated booking, if no employee is connected. **Terminal / WEB APP**: The system use always the current logged in Employee and ignore this setting **Beas Desktop**: If an Employee is linked to current use, it use the linked Employee, otherwise this setting.

see Material posting, backflushing

Partial posting or final posting

The posting process without closing the WO is done via button "Partial posting" or clicking on F2.
The posting process with closing the WO position or WO is done via button "Final posting" or clicking on F3.

Completion confirmation – Button only visible if
a) There are no uncleared time records.
b) It is not about an overhead costs-order (definable in production type).
c) **Configuration wizard > Production > Valuation and posting of the assembly > Post finished parts when** is not set to manually.
d) The variable "lb_cannotclose" is not set to 1 in windowevent "cancloseorder".

Example script: General hide of button "Completion confirmation"

```
windowevent cancloseorder
setvar=lb_cannotclose=1
end event
```

Automatic Pre-allocation

For items, set to "backflushing", quantities to be posted are automatically pre-allocated. Other entries are not pre-allocated.

Batches and serial numbers are only pre-allocated automatically, if in **Configuration wizard > Production > Material posting and reservation > Backflushing > "Post batches also" or "Post serial numbers"** has been enabled. Click on "pre-allocate" to pre-allocate batches or serial

© 2026 Boyum IT Solutions A/S

numbers manually. If batches or serial numbers has been reserved, independent of settings, these are always pre-allocated automatically.

Order of withdrawal is defined as:

1. Reserved goods
2. Allocation warehouse
3. Standard warehouse (as per BOM item or standard warehouse of item)
4. BoM definition, Bin location (when bin location is defined)
5. Within this order the withdrawal rules from **Configuration wizard > Production > Material posting and reservation > "Automatic batch issue by ..."** apply.

All other warehouses are not considered, but you can withdraw manually from these warehouses.

Field description

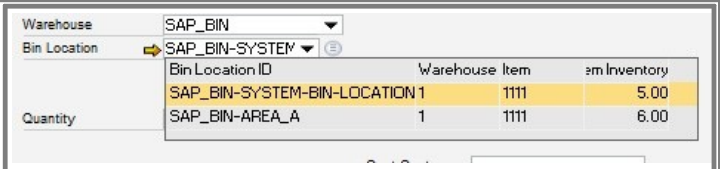
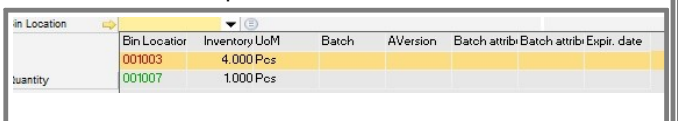
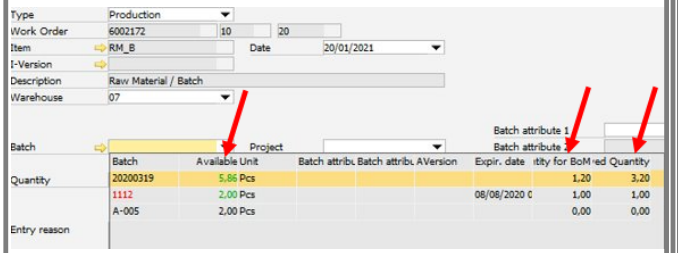
This window can be accessed from the menu as well as from the terminal.

Field	Meaning
Bar code	Drop-down selection. Displayed: routing card no, bar code, order, item, item description, customer name.
Order	Order number from Work order.
Customer name	Customer name.
Item	Item.
I-Version	Item version (with activated item version control).
Description	Free Text.
Drawing number	Drawing number.
Planned Qty	Planned Qty from work order. Display in Inventory UoM.
As yet	Confirmed until now. Entry in Inventory UoM.
Total Qty	Total reported qty of the current time receipt.
Yield portion	Yield portion of the total reported quantity.
Issue from warehouse	From which warehouse to issue.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	This field is only displayed if activated in **Configuration wizard - Production > production backflushing > Warehouse selection for issue** If active, this warehouse is used for issue. This has a higher priority than the default warehouse in BoM.
Enter to stock	Receipt the assembly to which warehouse This field is only displayed if activated in **Configuration wizard > Production > production backflushing > Warehouse selection for issue** By default, the assembly is posted to the warehouse, given in work order item. ***See*** Warehouse rules. NOTE: Changing this warehouse with warehouse depending account determination active can lead to differences on the WIP account.
Bin Location	Define target Bin location Only visible if the receipt warehouse is a bin managed warehouse. Here you can define the bin location for the assembly. ***See*** Warehouse rules. Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components: **Arrow icon** / List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	 **The selected drop-down option displays the following information in receipt documents:** • Bin Location • Warehouse Area • First item in this bin location • Stock of the first item in this bin location The list can be modified in the Configuration wizard. **The selected drop-down option displays the following information in issue documents:** • All stock information of all bin locations with batch- and serial number information. • ⊟ Reserved Batch quantities information  The drop-down contains information on reserved quantities in 3 columns:  The batch entry in the list is displayed in RED color if the Batch is not free. **Quantity-related information:**

© 2026 Boyum IT Solutions A/S

Field	Meaning

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

- Notes: Beas Bin Warehouse

  The Definition of the bin location is mandatory.

- Notes: SBO Bin Warehouse

  If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
  This is entirely managed by SAP Business One.

  Drop-down for volume or weight is not supported.

© 2026 Boyum IT Solutions A/S

Field	Meaning

	Columns are always 0.
	beas 9.3 PL 2
	Notes: WMS Bin Warehouse
	Bin location is mandatory.
	Drop-down for volume and weight not supported.
	Customizing of the drop-down list in Beas 9.3 PL 2 or newer release
	This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.
	
	The following priorities are considered:
	1. Window-related customization (`windowevent setbindropown`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	In the `e_bindropdownbsl` variable, the ODATA command can be defined.
	It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.
	
	The standard functions for receipt and issue are as folows:
	`file stockmanagement.src`
	
	`function binreceiptdropdown setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bsl>)?$mask=1 end function`
	
	`function binissuedropdown setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode,bsl>)?$select=BinLocation/BinCode,BinLocation/BinColor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,BatchAttribute2,ExpirationDate&$filter=ItemCode eq <e_itemcode,bsl>`

© 2026 Boyum IT Solutions A/S

Field	Meaning

```
and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations,
ordered by OnHand descending, BinCode
ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhs
code,bsl>)?$select=BinLocation/BinCode,BinLoc
ation/BinColor,OnHand&$orderby=OnHand
desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where
OnHand > 0 of the selected ItemCode, ordered
by OnHand descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_bin
whscode,bsl>)?$select=BinLocation/BinCode,Bin
Location/BinColor,OnHand,UoMCode,Batch&$filte
r=ItemCode eq <e_itemcode,bsl> and OnHand gt
0&$orderby=OnHand desc, BinLocation/BinCode
asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent`)

© 2026 Boyum IT Solutions A/S

Field	Meaning

	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:
	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE"`
	`from "BEAS_WHSBIN" where`
	`"WhsCode"=<e_binwhscode,dbstring> order by`
	`"STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE"`
	`from "BEAS_WHSBIN" where`
	`"WhsCode"=<e_binwhscode,dbstring> order by`
	`"STORAGESORT"`
	`end function`

Posting date	Select a valuation date. **Important:** If a work order time receipt is edited subsequently or canceled, the revaluation or cancellation of the linked journal entries is performed on the new valuation date. NOTE: This date only affects "receipt" documents. For "Issue" documents, the system sets the current date by

© 2026 Boyum IT Solutions A/S

Field	Meaning
	default and the only way to modify that date is to modify "Issue quantity changeable" to 'Yes'.

- Label - Printing

If a report is stored, the button "Label" is displayed automatically, as soon as the work order was selected or posted. Always the information of the last posting is printed.
There is no default report.

Setup:
1. Create a report.
2. Store the report in this window in the macro.
3. Close window and re-open.
4. Printing is available now.

Available variables:
<docentry> = docentry from last document from table OIGE.DocEntry
<docnum> = Document number OIGE.DocNum

Compatibility:
Until beas9.0 Patch3 the button "Label" was displayed always and the report "Box label" was printed. If it was not existing, no label was printed.To enable printing, setup this report as described above.

See Macro

Webinar 8/2017, Part Work order Backflushing Booking

8.12.4 Production Time Administration

This window is the dashboard for administration and creation of all time receipts.

The following tabs are available:

Tab	Meaning

© 2026 Boyum IT Solutions A/S

Production Time Administration	Entry from scratch and changing existing order reports.
Quick Input	Quick input of order times in list form.
Active Work Order Times	View and processing of order reports logged in but not yet logged out.

Production Time Administration

(first tab)

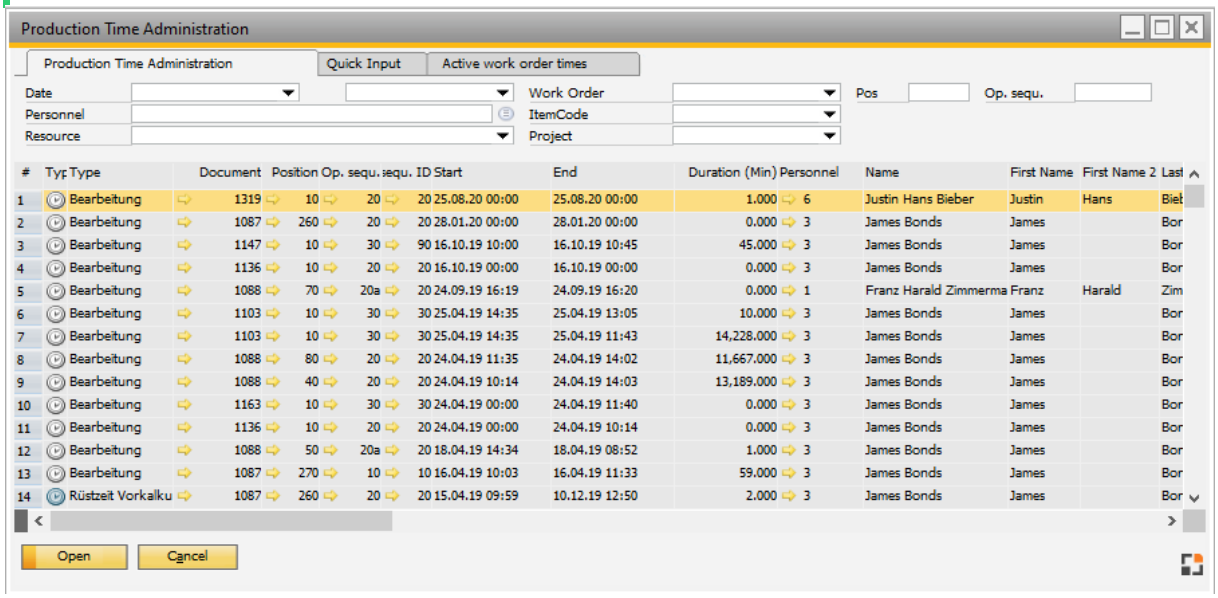
This window is used to display and edit all Production time entries.

Clicking on an entry opens the Time Receipt window for an operation.

PATH: Production > Factory Data Capture > Production Time Administration

or

Human Resources > Personnel > **Open** an entry > Personnel Administration XXX > Tab "Orders"



Window fert_arbzeit_browse_alle.psr

Window settings and Templates are supported.

Filter

Field	Description
Date	Define Date From/To If you change "Date From", the system inserts the same Date in field "Date To"
Personnel	You can choose one or more Personnel ID's

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: If you open this window from **Personnel Administration XXX > Tab "Order"**, this field is not visible. You only have access to the selected Personnel entry.
Resource	The Resource used by the operation.
Work order	The number of the work order.
Pos.	Work order position number
Op.sequ.	Operation sequence - Routing number
Item Code	Item Code.
Project	Project information of the work order.

Columns

Many fields related to time receipt are available.

For more information ***see*** Production Time Receipt.

Functions

Functions	Description
Add	Create new Time Receipt If called from Personnel Administration -> Only for current Personnel Entry
Remove	Delete current entry.

Recalculate	- Only available for databases with the SAP setting "Use Perpetual inventory" deactivated.
	This function recalculates times for open Work orders:
	The system executes the following script for every open Work Order:
	`wotime=woreset`
	`wotime=load=<beas_arbzeit_buchnr_id>`
	`wotime=timecalc`
	`wotime=save`

See

© 2026 Boyum IT Solutions A/S

Webinar 8/2017 Part Production Time Administration

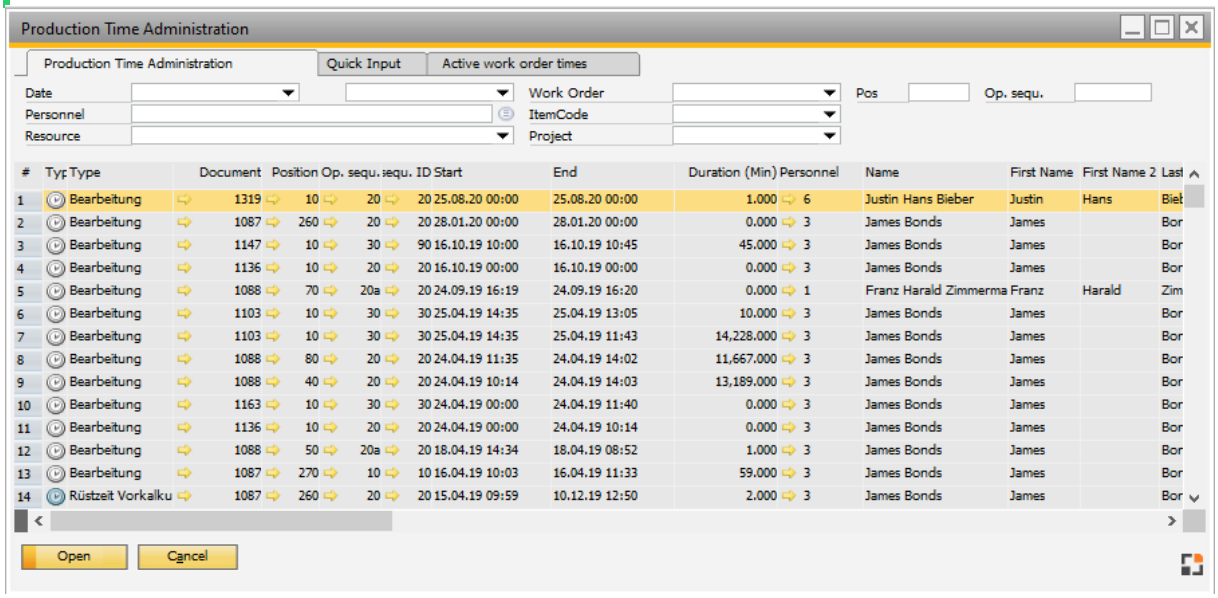
8.12.4.1 ProductionTime

This window is used to display and edit all Production time entries.
Clicking on an entry opens the Time Receipt window for an operation.

PATH: Production > Factory Data Capture > Production Time Administration

or

Human Resources > Personnel > **Open** an entry > Personnel Administration XXX > Tab "Orders"



Window fert_arbzeit_browse_alle.psr

Window settings and Templates are supported.

Filter

Field	Description
Date	Define Date From/To If you change "Date From", the system inserts the same Date in field "Date To"
Personnel	You can choose one or more Personnel ID's Note: If you open this window from **Personnel Administration XXX > Tab "Order"**, this field is not visible. You only have access to the selected Personnel entry.
Resource	The Resource used by the operation.

© 2026 Boyum IT Solutions A/S

Field	Description
Work order	The number of the work order.
Pos.	Work order position number
Op.sequ.	Operation sequence - Routing number
Item Code	Item Code.
Project	Project information of the work order.

Columns

Many fields related to time receipt are available.

For more information ***see*** Production Time Receipt.

Functions

Functions	Description
Add	Create new Time Receipt If called from Personnel Administration -> Only for current Personnel Entry
Remove	Delete current entry.

Recalculate	- Only available for databases with the SAP setting "Use Perpetual inventory" deactivated.
	This function recalculates times for open Work orders:
	The system executes the following script for every open Work Order:
	`wotime=woreset`
	`wotime=load=<beas_arbzeit_buchnr_id>`
	`wotime=timecalc`
	`wotime=save`

8.12.4.2 Quick Input

The Quick Input tab is used to report several time receipts in a list form.

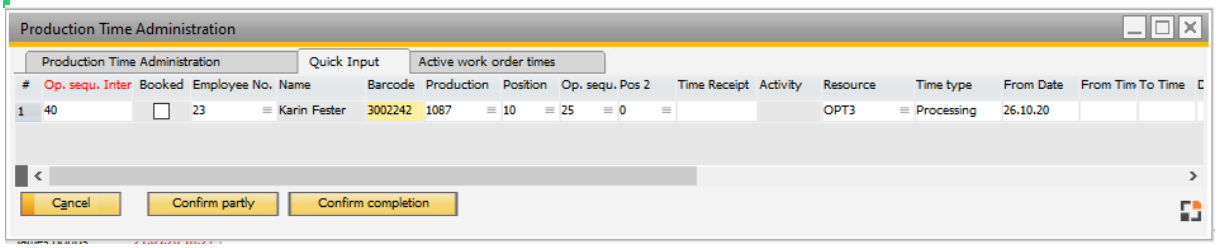
All fields available at the time receipt are also available in quick input but in a grid format. Each row is a time receipt and the columns are the fields.

For field descriptions ***see*** Production Time Receipt.

© 2026 Boyum IT Solutions A/S

Several lines can be added with the required information and then the information is added to the database when the confirmation buttons are used.

PATH: Production > Factory Data Capture > Production Time Administration > "Quick Input" tab.



Window fert_arbzeit_schnellerfassung.psr

Button	Description
Cancel	Closes the window without any action.
Add	Adds a new line.
Delete	Removes the selected line from the list.
Confirm partly	Part confirmation for all entered operations or complete confirmation if in the Close column a check mark was set.
Confirm completion	All operations on the provided list are posted and closed.

Important: Parallel calculations and the automatic division of the reported times to resources does not work from this window. The time receipt must be created in the terminal. This setting is available in **Configuration Wizard > Production > FDC > Parallel calculation**.

Field	Description
Booked	Check mark is displayed when booked.
Pers.No.	Employee number of person reporting the time receipt (setup in **Attendance > Personnel**).
Name	Name of the employee.
Default branch	Default branch of the item.
Barcode	Bar code printed on the work order document (***see*** **Routing > position > extended > Barcode**).
Production	Work order number.
Document	Work order of the previously selected document.

© 2026 Boyum IT Solutions A/S

Position	Position of the work order document.
Op. sequ.	Operation to be reported.
Pos 2	Parallel resources of the operation (previously resource pos).
Activity	Reported activity.
Resource	Resource Pre-assign a resource stored in the operation. Use right-click to select resources available for this employee. Any resource can be entered manually, resource groups are not allowed and therefore not selectable. ***See*** Resource rule Personnel Resources Resources
Cost type	Cost type on which costs are to be booked.
Cost center	Cost center to be charged (Business performance).
Time type	Time type In the resource up to 4 time types can be stored. With right-click the time type can be selected.After selection, it is checked, whether the time type is allowed for the current resource. If not, the default type is inserted. For more information ***see*** Time type *beas9.0-004-000-000*
From Date	Start date.
To Date	Date of valuation.
From time	Start time.
To time	End time.
Duration	Duration of work order time. Can be changed after calculation.
External price	External price.
Valuation date	Valuate to the specified.
Closed	Shows if the operation closed.

© 2026 Boyum IT Solutions A/S

Quantity yield	Produced quantity that is free from defects.
Quantity yield RE	Entry quantity in entry units, defined in operation. ***See*** Production – Routing – Extended – Time receipt unit.
Scrap	Scrap quantity in reporting units.
Unit	Quantity unit.
Item	Item number.
Information	Additional information.
Drawing number	Optional field.

back to production times administration

8.12.4.3 Active Work Order Times

In the "Active Work Order Times" window, all order reports are displayed have been logged in via **Attendance > Login and logout > Login work order** but not yet logged out.
These can also be deleted or modified. New entries are not possible.

As long as an active clock in/clock out exists, the affected production position cannot be closed.

Field descriptions

Field	Meaning
#	Number
Personnel	Employee number
First name	First name
Surname	Surname
From	Logon to date (right-click to select from calendar)
Time	Logon from time
Remark	free text
Document	Document number
Position	Position number in routing
Op. sequ.	Operation sequence ID
Position2	Position number of parallel operation
Type	Operation type
Resource	Resource ID

© 2026 Boyum IT Solutions A/S

Resource description	Resource description
Activity	Kind of activity
Item	Item number
Description	Item Description
Drawing number	Drawing number
Quantity	Reported quantity
Quantity unit	Quantity unit
Work order	Work order number
Date	Reporting date
Delivery date	Delivery date
Customer name	Customer name
Batch	Batch number
Time type	Time type
Barcode	Barcode
Production type	Production type from work order catalog
Additional text	free text
I-version	Item version number
Raw material	Raw material
Matchcode	Match code
Material group	Material group
Project	optional
Configuration	if existing
Variant	if existing A,B,...
MDC	If active, quantities are registered via machine data capture device
Yield quantity	Yield quantity (in confirmation units) registered via MDC-device. Transferred at logoff, in case MDC is active (beas_ftstmp.takeover=1)
Scrap quantity	Scrap quantity (in confirmation units) registered via MDC-device.

Button	Meaning
Confirm	Open time receipt is confirmed.

Change Log and Window settings are available.

© 2026 Boyum IT Solutions A/S

back to production times administration

8.13 External Production

External production is an external service which creates external costs (Purchase Order, Purchase Invoice) and lead times. Administration of external operations is performed exclusively in work order structure view or the external operation system, divided in collective orders, provisions, goods receipt and posting of provision parts.

Webinar External Production (2017, english, 35 minutes)
Powerpoint for the Webinar from 2017

External manufacturing: process description.

Prerequisites and important settings.

- Customized adaptation
  - Data structure

Data structure in external operation

Workorder Table
BEAS_FTAPL Routing external operation (Resource BEAS_APLATZ.AUSWAERTSBEARBEITUNG = J)
OPOR/POR1 Purchase SAP Business One (U_BELNRID,U_BELPOSID, U_POSID)
BEAS_OWING_SUPPLIES Provision (U_BELNRID,U_BELPOSID, U_POSID)
OWTR, WTR1 Transfer (u_beas_fpq)
OPDN/PDN1 Purchase Order Goods receipt (-1 * u_BEAS_FPQ =)
BEAS_OWING_DELIVERY (Provision parts Goods receipt) (-1 * PDN.U_BEAS_FPQ = DocEntry)

© 2026 Boyum IT Solutions A/S

8.13.1 External production

External production is ordered as a service item by default: Purchase Order with service item.
If additional material is needed for the external production order: Purchase Order with service item and provision.

Process:
An external production is worked off in the following steps:

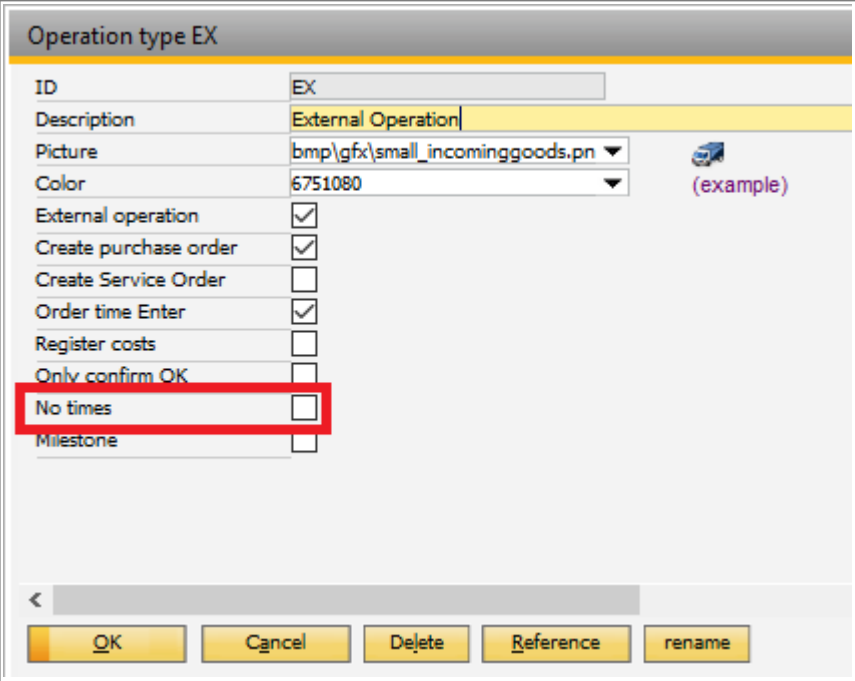
Preparation
Create service items, set up warehouse, operation and resource. Create external operation, assign suppliers and items.
Pricing is indicated in the configuration wizard.
Work Order is created.
Purchase Order is created.
Incoming Goods are posted.
Provision parts are posted.

The following procedure is not recommended: Purchase Order as a Service Order. This is available only for compatibility Reasons.

- Time reservation and lead time

  "Type" has to be deactivated in operation if a calculation of the lead time is required for external production.

© 2026 Boyum IT Solutions A/S



Window basis_agtyp_edit.psr

The tab "Standard" is now available in operation to enter time information.

An external work order can also reserve times on its stored resource. All calculations are made exactly as with a normal routing position.

Note: External production does not normally have a resource limit. To deactivate observation of resource limits, go to "Observe resource limits" in the resource.

Pure lead times (the time from purchase order to delivery) can be specified as follows:

With consideration of the factory calendar:

Mach+labor time (if quantity-dependent) or setup time (not quantity-dependent)

Specification in hours. To specify in days:

Open the corresponding resource

Specify the planned capacity / day = 1 hour

Now 1 hour in the external operation sequence corresponds to a day.

Without consideration of the factory calendar:

If you do not want to consider the factory calendar, the lead time is specified in idle time (in hours).

24 hours correspond to one day.

© 2026 Boyum IT Solutions A/S

The calculated end date is the to be awaited delivery date for the external production - delivery. The planned delivery date can be considered at a forward scheduling.

See

APS Calculation Types external production

Collective Purchase Order - Delivery date

see Pricing and transport costs

8.13.1.1 Collective Purchase Order

In this window, purchase orders for external operations can be created. Choose the external operation in the upper window section and enter detailed information in the lower window section. If several rows are registered, the purchase is summarized in case the supplier and target warehouse match.

Note: It is recommended to activate the parameter Only if Order closed when working with External production, as it does not allow the closing of a work order if an existing purchase order is opened.

The window is dynamically adjustable, templates are supported.

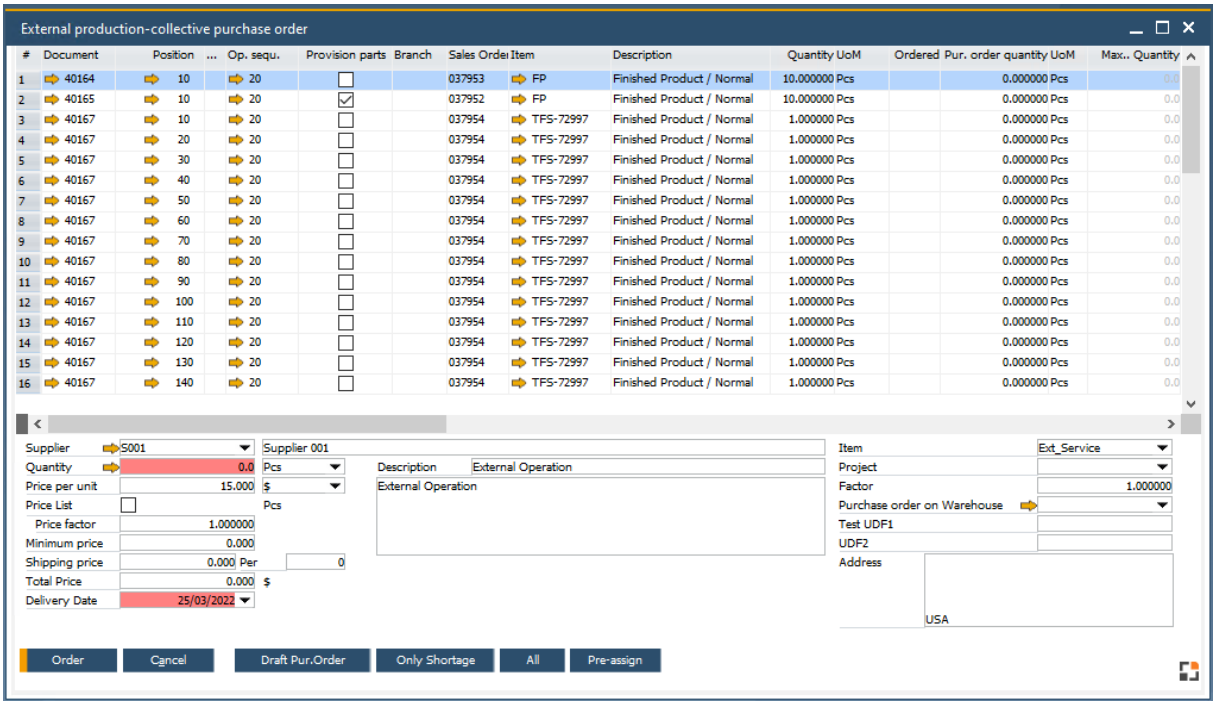
See Window settings and Templates. Info: In this window it is not possible to define a filter or other sorting in templates.

Access: External production Purchase order *(FRBEST)*

License: Basic

PATH: Production > External production > Collective Purchase Order

© 2026 Boyum IT Solutions A/S



Window: fert_external_toorder_browse

Field Description selection list

Field	Meaning
Document	Document Number of work order.
Position	Position of assembly.
routing po	Routing position.
Order	Work order number.
Item	Item number of the assembly.
Description	Activity description (100 characters maximum).
(large text field)	Activity description from the second line.
Quantity	Required amount (remaining) of the assembly in consumption units.
CU	Consumption unit (assembly).
Ordered	Previously been ordered.
Order Quantity	Total requirement of purchase order (planned quantity).
max. quantity	max. order quantity (including consideration of the logon rules).

© 2026 Boyum IT Solutions A/S

Provision parts	If the check box is active, the provision is available.
Check	Can be ordered? (according to logon rules).
Price	Price per unit per "price per".
Price per	Price Factor.
Currency	Currency.
Total	Calculated total price including transportation costs.
Minimum Price	Minimum Price.
Shipping price	Transport price.
Shipping, per	Transport price is for each batch size.
Supplier	Supplier (service provider).
Delivery date	Requested delivery date.
target bearing	For provision parts: storage of the supplier (service provider) (External Storage).
Drawing number	Drawing number of the assembly.
DIN	DIN of the assembly.
Raw Material	Raw material of the assembly.
Matchcode	Match code of the assembly.
Group	Material group of the assembly.
Project	Corresponding project.
Resource	Resource of the operation sequence (External operation – resource).
Activity	Activity description of external operation.
Order Item	Service items included in the purchase order.
Cost center	Cost center to be debited.
Ordered (as a check box)	Already ordered Y / N.
UDF1-4 from work order position	Display UDF of work order position
UDF1-4 from work order routing position	Display UDF of Routing position
UDF1-4	Display up to 4 empty columns. It is possible to fill this field with Script. ***See*** Configuration wizard.

© 2026 Boyum IT Solutions A/S

Field description entry fields

For the entries selected in the upper list in the lower are the details that can be entered for the purchase of external services. Several rows can be registered successively to create a collective purchase order.

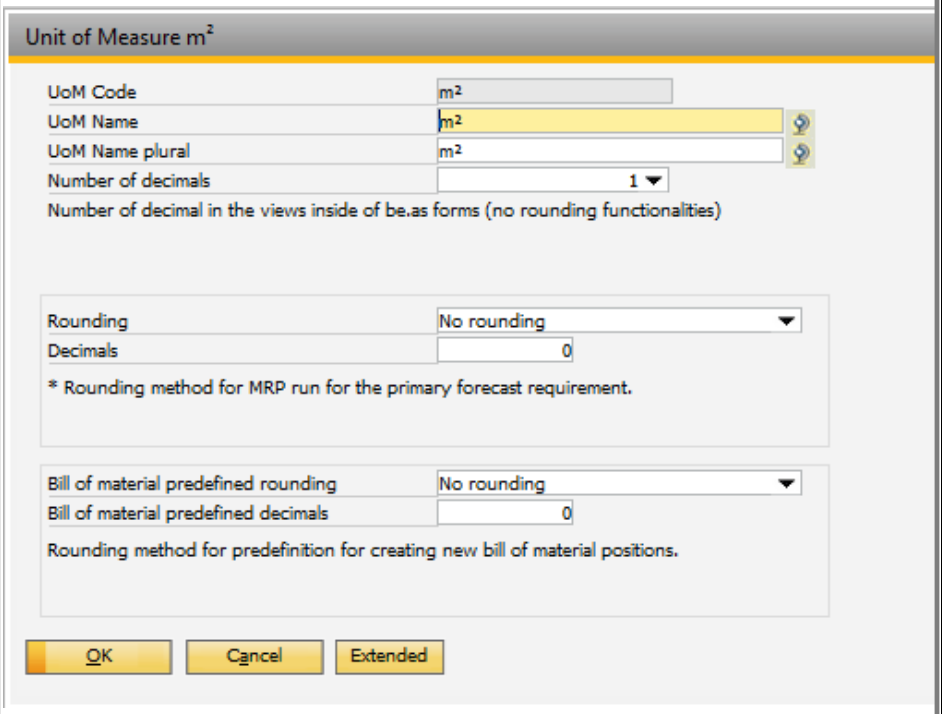
Field	Meaning
Supplier	Supplier / service provider. Selection takes depending on the setting. ***See*** Configuration wizard – Choose supplier.
Quantity	Quantity of the service item (service) to be ordered. Quantity is specified in Inventory UoM saved in the service item master data. The quantity is based on the Conversion formula defined in the UoM settings. ***See*** Edit operation – External operation Note: At the moment the quantity is changed, standard pricing is performed. If a price is found at that point, it is entered, overwriting the price stored in the operation. Only the maximum allowed quantity can be entered. Rules set up in **Configuration Wizard > Production > FDC > Registration rules** apply here. Depending on the setting, only the maximum Quantity allowed (***see*** list – column maximum quantity). The unit can be defined right of the quantity field. Usually, it is the warehouse unit of the service item. The conversion factor between consumption unit if the assembly and warehouse unit of the service item is defined in "factor" field. If conversion is active, the figures and the corresponding factor field text is green. As soon a purchase order is created, the "unit" field turns inactive. **Allocation** If you click on the icon next to the edit field, the maximum quantity is inserted. (allowed quantity is the one from column max.quantity)

© 2026 Boyum IT Solutions A/S

Rounding

The Allocation function using the rounding, defined in Unit of Measure to .. > Rounding – based on Purchase Unit

See Unit of Measure



Window basis_me_edit.psr

Based on the rounded Purchase Quantity, Beas recalculates the Factor between Work order UoM and Purchase UoM.

Example:

Requirement = `10 Pcs`

Purchase Unit = `Box`, Factor = `2.3333`

Rounding for Box = `Round up, 0 Decimal places`

Click on "Allocation" (golden arrow or button Allocate).

Calculation = `10 : 2.3333 = 4.28632`

Round up, 0 decimal places = `5`

Result = You need `5 Boxes` for creation of `10 Pcs`. We've a Purchase Order related conversation factor from `2.0000` and not `2.3330`. All follow processes use the order related factor (provision, issue, receipt)

© 2026 Boyum IT Solutions A/S

	Attention If the quantity is changed manually, Beas does not change the UoM – factor.
Unit price	Single price of service per price factor Price is determined automatically or entered manually. ***See*** Configuration wizard – Pricing If field "price list" was active and the price changed, it will be disabled afterwards.
Price list	If active, automatic pricing is performed. ***See*** Configuration wizard – Pricing.
Currency	Currency of unit price.
Price factor	Price factor for service-item. Field is visible only if "price list" was disabled.
Minimum price	Minimum price for purchasing service.
Shipping price	Transport price per lot size.
Total price	Calculated total price.
Delivery date	Delivery date The finishing date from the operation sequence which will be calculated at the scheduling or APS is the default for the delivery date. ***See*** External production - Time reservation and lead time A forward scheduling can consider the planned delivery date. ***See*** APS Calculation Types External production *(field "BEAS_FTAPL"."GESAMT_ENDZEIT")*
Target warehouse	For provision parts: warehouse of the supplier (of service) This is the target warehouse, on which you can transfer the Provision. Only available if you must transfer provision to the supplier (linked Material to this routing position). This is an internal warehouse, because you need the costs of the material in your own company.

© 2026 Boyum IT Solutions A/S

Beas transfers the material to this warehouse, but in reality the material is sent to the supplier.
If the product comes back, you make an issue directly from this target warehouse.

The target warehouse must be defined as an external warehouse. ***See*** Warehouse master data - Warehouse type
You can define
- one warehouse per supplier. For this, you can define the supplier in ***See*** Warehouse master data - Warehouse type
- one warehouse for all suppliers
- if the warehouse is a Beas Bin-managed warehouse, the system creates one Bin Code for every Supplier.
in this way you can see the stock per Supplier with only one warehouse. This makes the handling more simple.

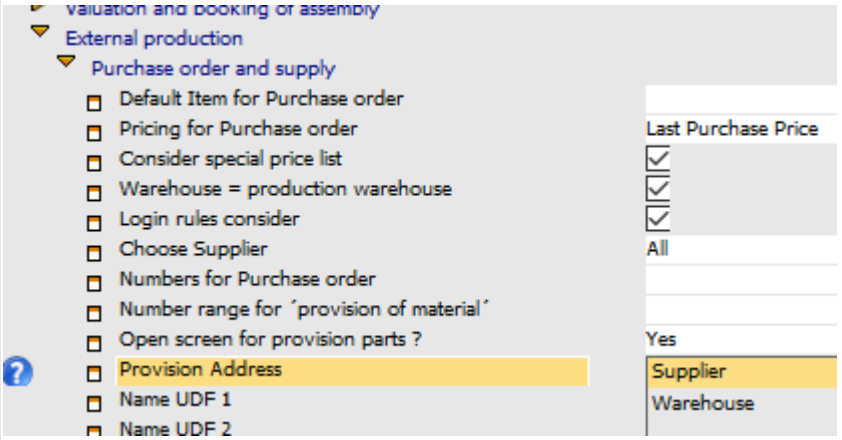
Warehouse Rule:
If an external warehouse is set for a supplier, the system takes this warehouse.
If no special warehouse is set for the supplier, the system takes the first external warehouse that is not linked to a supplier.
If no external warehouse is set, it is not possible to create the purchase order.

Delivery Address
This is the address from the Production of the supplier and not related to the purchase order.
The system inserts this address in the transfer document created from "Deliver provision".

The Address is taken from Warehouse or Supplier
Define this in **Configuration wizard > Production > External Production >**

© 2026 Boyum IT Solutions A/S

Purchase order > "Provision Address"



You can select the following warehouses:
All warehouses linked to:
- the supplier
- the same branch as the work order item

Multi-Branches
Due to accounts determination, the external warehouse needs to be of the same branch as the work order item.

Description	The first line of the activity description is displayed and transferred to the purchase order.
Long description	Extended long description

The text of the activity description on the routing from the second line is displayed. It is saved in the purchase order in field "freetxt". It can be printed on the document using this field which is limited to 100 characters.

Note: if a longer description is required, customization is necessary.

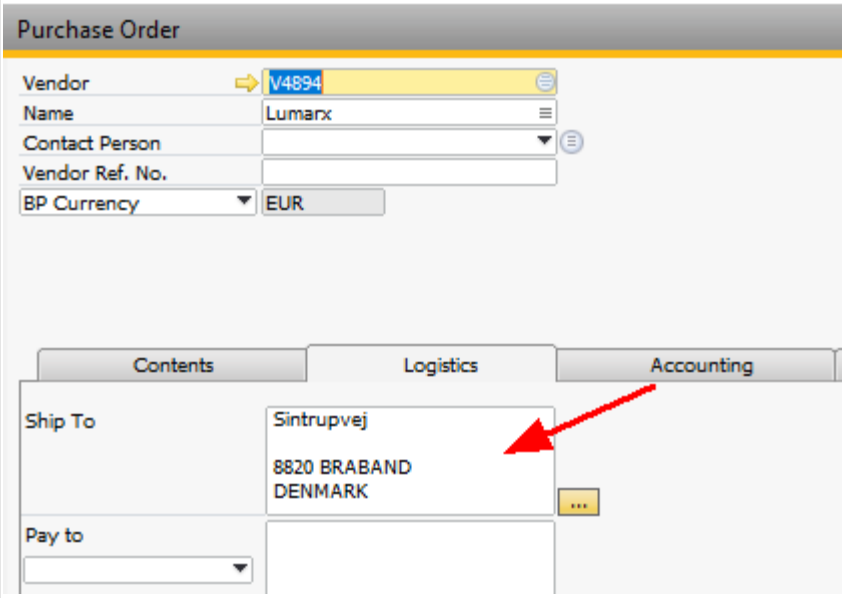
1. Create UDF on document line, Type "Text" e.g. "U_LongText"
2. Extend the document by this field
3. Enter the script:

© 2026 Boyum IT Solutions A/S

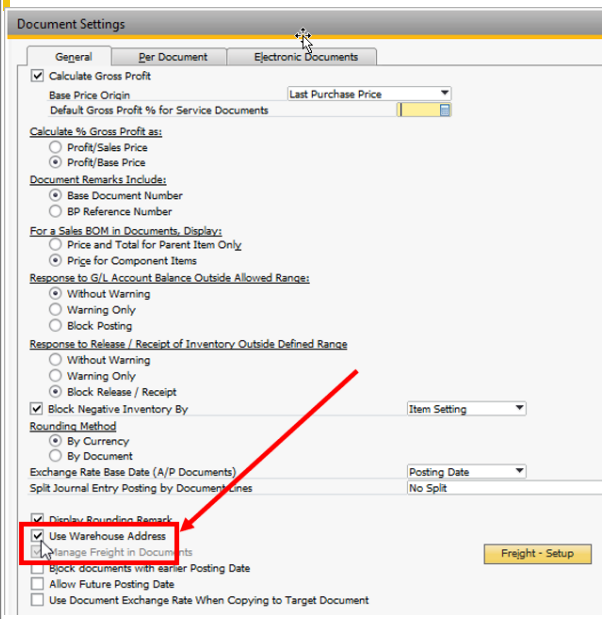
	`windowevent open`
	`// Activate Long-Text-Edit`
	`setvar=ib_longtext=true`
	`end event`
	
	`windowevent purchaseorderline`
	`porder=line=U_LongText=<item.longtext.value>`
	`end event`

Project	Related project.
Item	Service-item, included in purchase order. If the item is changed, the purchase unit and the factor between the purchase assembly unit is also determined, inserted and applied to the work order routing position. This factor applies for all purchase orders related to this operation sequence. From the first purchase order on, the factor may not be changed anymore. Consequently, the item is not changeable once the first purchase order was executed. ***See*** Edit operation – External operation – Item.
Factor	Conversion factor between consumption unit of the assembly and warehouse unit of the service item. When changing this value, changes are written back to work order routing. As soon a purchase order was created, the "unit" field is no more changeable. ***See*** Edit operation – External operation – Conversion factor.
Purchase order on Warehouse	Define the Warehouse for Purchase order Define the purchase warehouse and optional "Ship to" address for the Purchase order.

© 2026 Boyum IT Solutions A/S



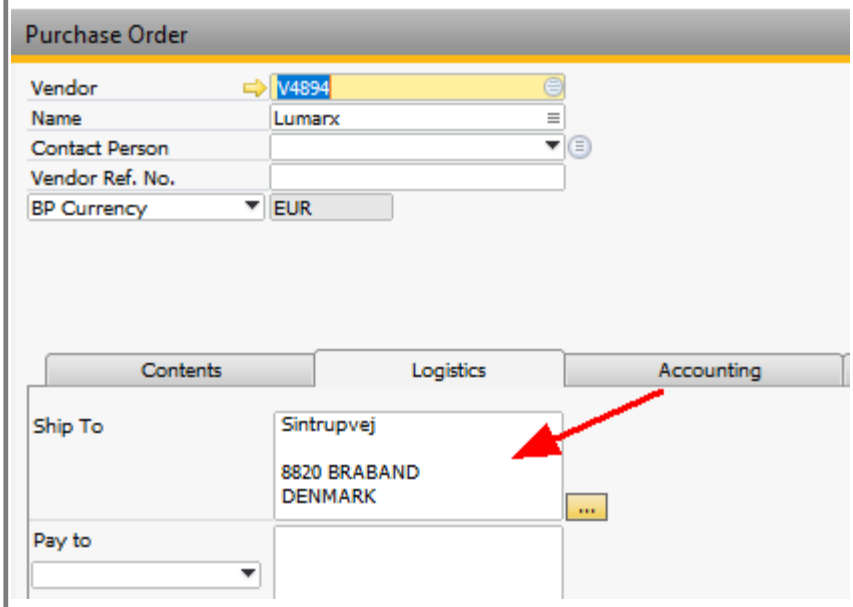
Note: The system uses the address from warehouse only if "use address from Warehouse" is active.



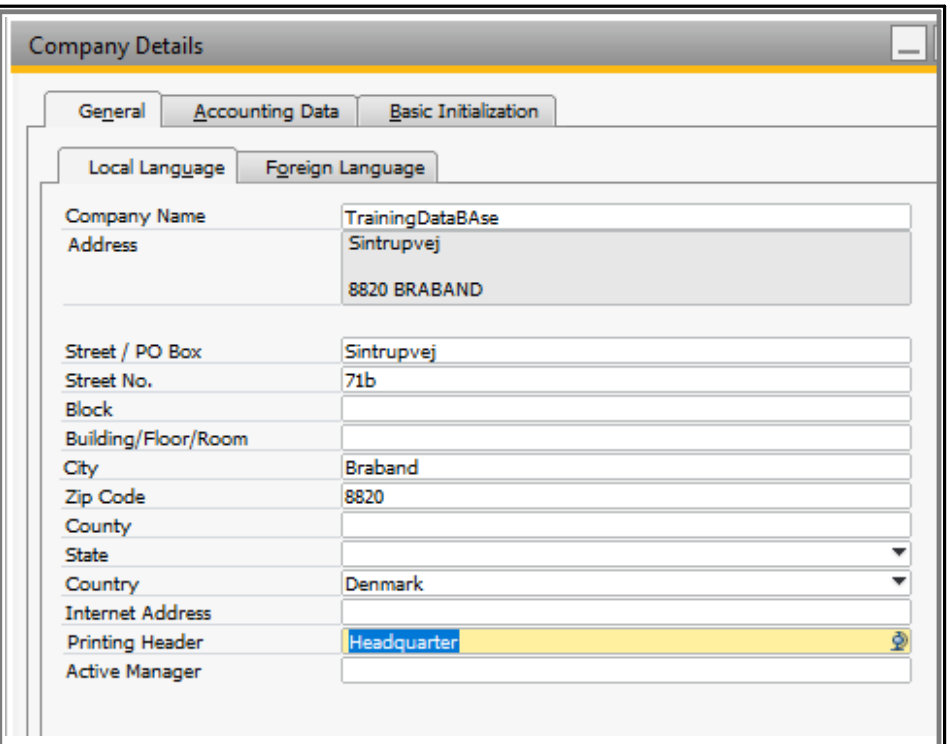
You can define this warehouse in operation catalog - Purchase address.

see Concept Address format

© 2026 Boyum IT Solutions A/S

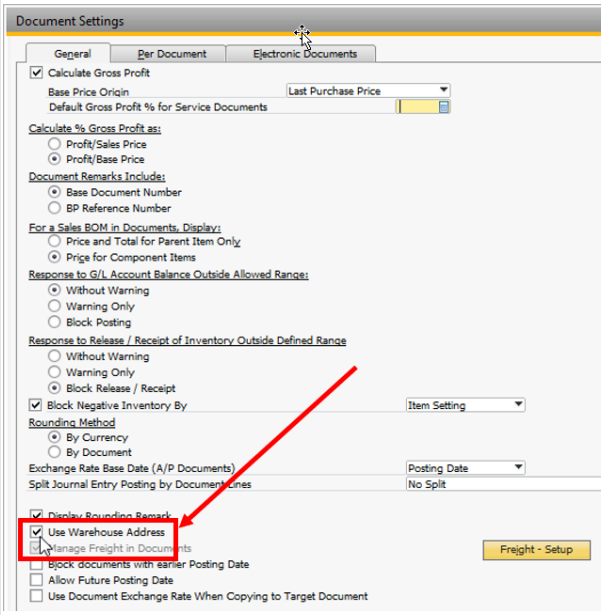
	Note: Beas use the Address Format defined in SAP Business One. For more information ***see*** Concept Address format
Address	Pay to - Address This is the address on which the supplier has to send the product back to their own company. The system saves this in **Purchase order > Logistics tab > "Ship To":**  This address is defined in **SAP Company Details > General tab > Local language sub-tab**:

© 2026 Boyum IT Solutions A/S



If in **Administration > System initialization > Document settings > General > Warehouse address** is activated, the address given here is used.

Warehouse = Purchase order on Warehouse.



Note:

© 2026 Boyum IT Solutions A/S

	This address is used only for the purchase order. The address for a provision document can be set up separately, and is related to the target warehouse. ***See*** Configuration wizard.

Further functions

Function	Meaning
Order	Create purchase order for all displayed rows, in which quantity and supplier do match and a correct date is stored. Note: a collective document is created only if the supplier and the warehouse match. ***See*** Configuration wizard – External operation – Warehouse = Production warehouse.
Cancel	Close window without saving changes.
Draft pur. Order	Create a drafted purchase order.
Only Shortage	Display only entries with shortage.
Window settings	Setup of columns, colors, etc.
Pre-assign	Automatic pre-assignment of purchase qty and price for all rows. The field "purchase quantity" is automatically filled for all visible rows. Additionally, the price is determined and the total price is calculated. Dates from the past are set to "today". The maximum allowed quantity is filled at most. All rules stored in the configuration wizard are taken into account.

see Routing – external operation

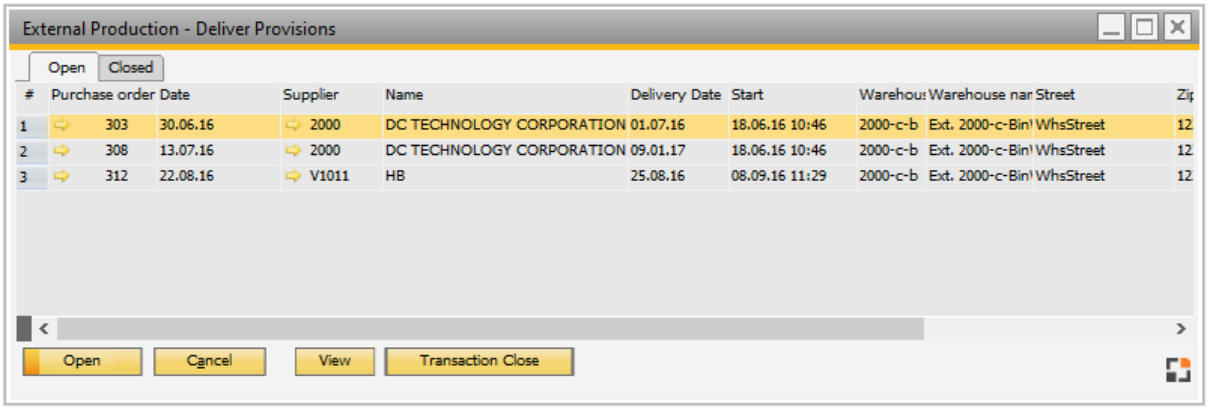
back to external production

8.13.1.2 External Production - Deliver Provisions

Selection list for provision parts.

PATH: Production > External production > Provisions

© 2026 Boyum IT Solutions A/S



Window fert_external_owingspl_browse.psr

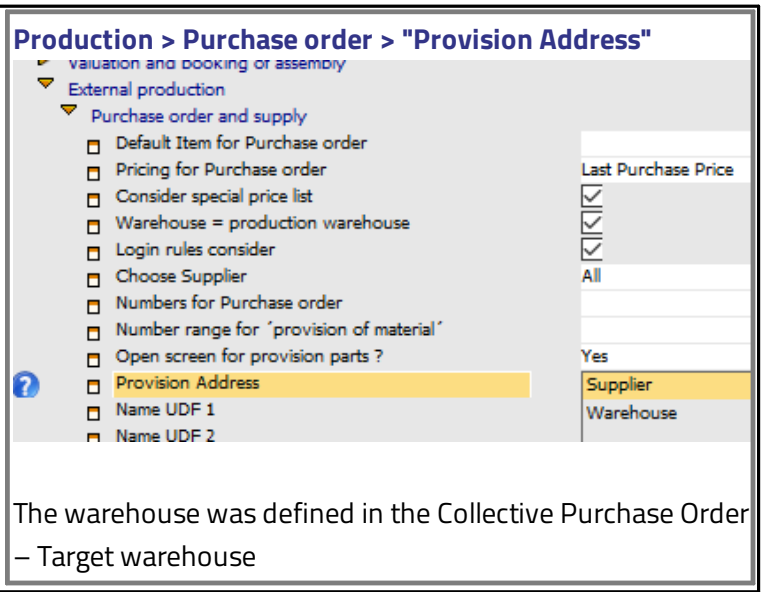
Upper tabs

Tab	Meaning
Open	Open provisions.
Closed	The list contains closed provisions stored in the archive.

Columns

Field	Meaning
Purchase Order	Purchase order number requiring the provision.
Date	Date of the purchase order.
Supplier	Supplier of the provision.
Name	Name of the supplier.
Delivery date	Delivery date of the provision.
Store	External warehouse of supplier.
Warehouse name	Name of the external warehouse.
Address, City, ZIP, country	Supplier's address. The Address is taken from Warehouse or Supplier. Define this in **Configuration wizard > Production > External**

© 2026 Boyum IT Solutions A/S

	 The warehouse was defined in the Collective Purchase Order – Target warehouse
Status	Actual status of the provision.
Provision	Number of the provision.

Lower Buttons

Button	Meaning
Open	Open the old provision parts window with fewer features and manual entry.
Cancel	Close the window.
Provision	Open new External Production - Deliver Provision XX window.
Activate	The button is only displayed if the respective purchase order has not been closed. In this case, a previously closed operation can be re-opened.
View	Open a view window to review a previously closed operation. The provision parts window itself cannot be opened.
Transaction Close	Provision is closed and stored in the archive.

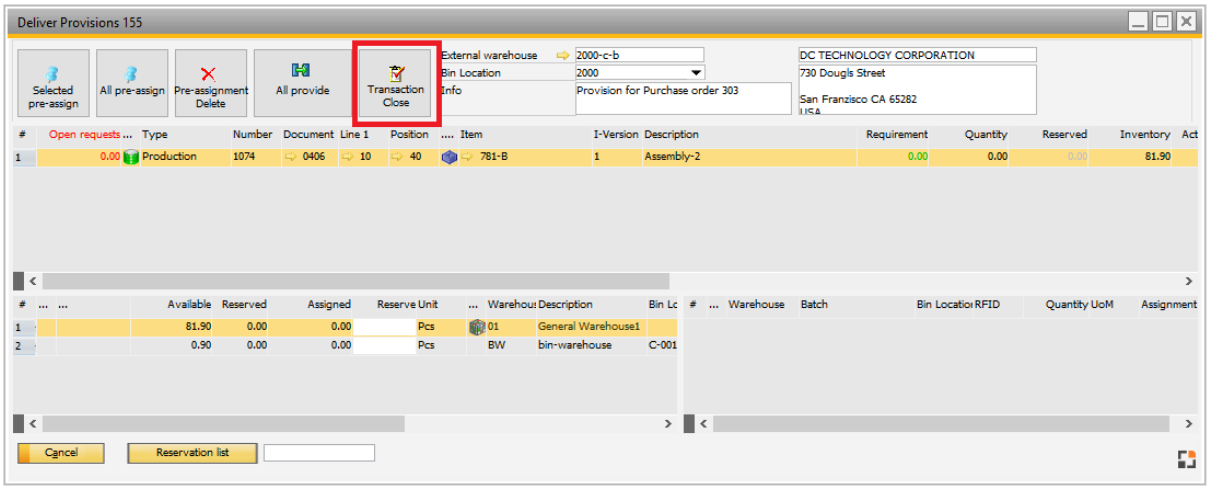
back to External operation

8.13.1.2.1 Deliver Provision XXX

In this window you can deliver provisions for an external operation.

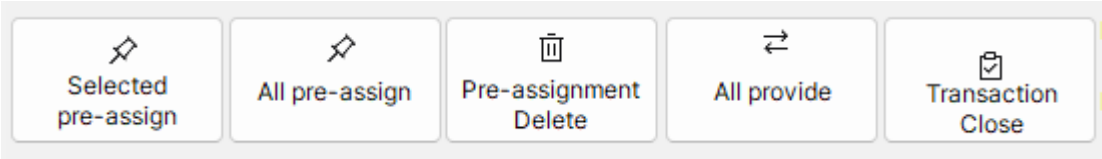
PATH: Production > External production > Provisions > **Open** an entry

© 2026 Boyum IT Solutions A/S



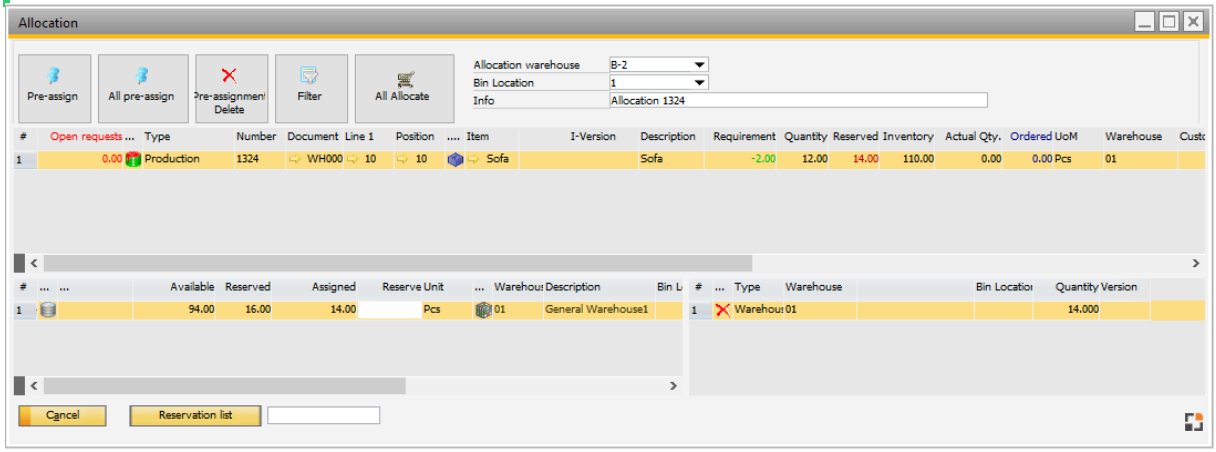
Window reservation_set_master_psr

Boyum Style Top bar buttons design:



The allocation/deliver function is used to transfer material needed for a work order from a default warehouse to an allocation warehouse. The material is also reserved for that work order. When doing an allocation, Beas creates a transfer document. Usually this is cost-neutral and not assigned to the work order.

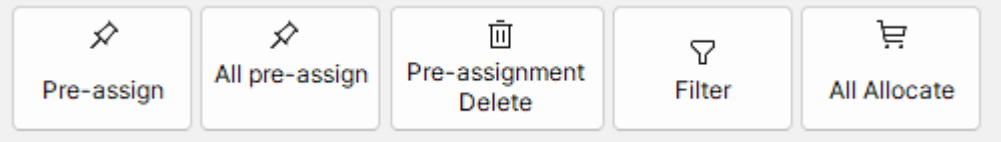
PATH: Production > Work Orders > right-click an allocation in the WO structure / right-click an item > "Allocation".



Window reservation_set_master.psr

© 2026 Boyum IT Solutions A/S

Boyum Style top bar buttons design:



- Prerequisites

[Reservation system](#) must be activated.
[Allocation warehouse](#) has been defined as type.

- Process of allocation

Transfer from standard item warehouse or from warehouse defined in BoM to the allocation warehouse. Goods are transferred via SAP Business One-transfer function to the allocation warehouse, a reservation is created. After finishing the product: manual or automatic backflushing of the material.

See: [Reservation system](#)
[Backflushing](#)

[Charge off reserved material](#)

Window structure

Header [Functions in header](#)	
[Requirement list](#)	
[Inventory list](#)	[selected material](#)

- Scanner support

The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:
Production > Material posting > Backflushing > [Material posting with scanner](#).

Active:
A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.

© 2026 Boyum IT Solutions A/S

If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued.

Inactive:
Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.
Serial number: quantity is accepted immediately.
Item: entry selected, cursor is set to quantity field.

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.
Error messages are issued in no case.

See
Configuration wizard – Material posting with scanner
Reservation
Material issue
Allocation
External operation Allocation
External operation issue

fert_scanbatchqty (J)

Fields right of the ribbon

Only some fields explained in the table below are displayed, depending on the work flow.

Field	Meaning
Posting date	**Postings**: select the posting date.
Allocation warehouse	**Allocation**: allocation warehouse. Setting is saved per work station. Note: this has no effect on the reservation and issue screen. ***See*** Reservation window, Material posting.
Bin location	Bin location of the external warehouse to which material is transferred (field is only displayed if the warehouse has bins). For reservation the definition of Bin Location is mandatory
Address	Address of the external warehouse.

© 2026 Boyum IT Solutions A/S

Functions in upper ribbon:

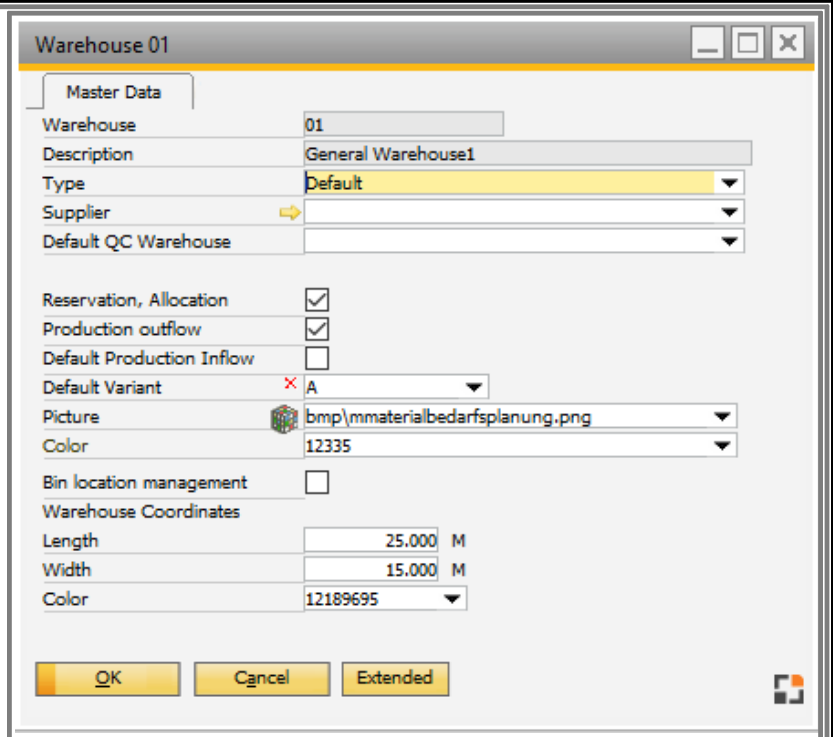
Button	Meaning

Pre-assign Quantity (manually)	Visible in WO Stock Transfer Request window.
	With this option the user can manually pre-assign quantities for each material line based on the equivalent amount of the parent product. In the quantity field you can specify the quantity of the parent product. Apply changes for the selected lines.
	
	Example:
	To manufacture 1 product A, you need:
	• 2 MA
	• 3 MB
	  • 20 MA
	  • 30 MB
	  • 2 * 2 = 4 MA
	  • 2 * 3 = 6 MB
	  • If Quantity is <= 0, the status bar message appears: "a quantity is required for pre-assigning"
	  • if Quantity is > 0, calculation is made for each Material in the list, considering part of the quantity of this BoM according to the Parent Quantity Field on the pre-assign button. Consider proportion of calculated scrap quantity. The result will be in the Column "Request" of the Material List.
	  • If you have reservations, the system will assign the reserved quantity to the right matrix.
	  • Beas create a transfer request document in background. This don't support any Bin management system. It is possible to choose item from bin managed warehouse, but the bin location information is not saved in the transfer request document
	
	Pre-assign Batches and Serials:
	Attention: In WO Stock Transfer Request, the pre-assign process does

© 2026 Boyum IT Solutions A/S

	not select any batch/serial numbers, unless there is an existing reservation. ***See*** WO Stock Transfer Request creation process.
Pre-assign	All entries selected in the upper list will be pre-allocated automatically Sorting 1. Reserved goods for this order line 2. Allocation warehouse 3. Default warehouse as per BoM or standard warehouse of the item Within this, batches and serial numbers are sorted by withdrawal rules according to the configuration wizard. ***See***: Configuration wizard. Normal items (not batch- or serial number related) will be pre-allocated only if the issue method was set to "automatic" in the Item master. ***See*** Item master – Issue method. Allocation rules **Batch and serial numbers** Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard. ***See*** Configuration wizard – Backflushing **Warehouse** Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.) ***See*** extended warehouse settings Available at **General settings > Warehouse > Warehouse master data > Extended**

© 2026 Boyum IT Solutions A/S



Window bin_whs_edit.psr

Attention

SAP Bin Management not supported.

Window bin_whs_edit.psr

Pre-assign Batches and Serials:

Attention: In the WO Stock Transfer Request, the pre-assign process does not select any batch/serial numbers, unless there is an existing reservation.

Extended rules

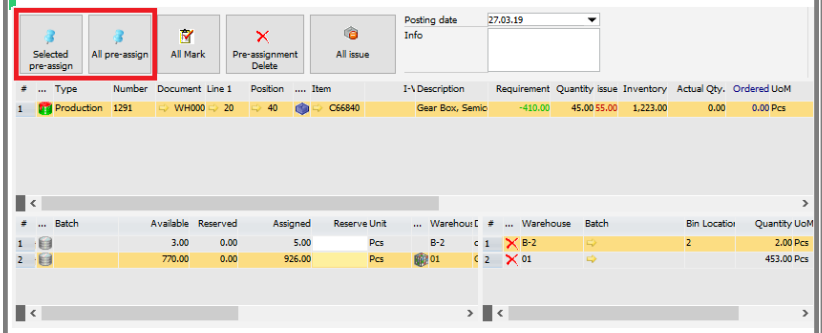
Extended rules can be stored in the function `workordermanagement.setres_reservation()`.

See Extended rules

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.

See Material booking > Automatic pre-assignment setting.

© 2026 Boyum IT Solutions A/S

	PATH: Production > Work orders structure > right-click an entry > "Reservation".  *Window resevation_set_master.psr* **Boyum Style button design:** These extended rules can be stored in the function "`workordermanagement.src`". (In project folder) Depending on the window a specific function is called, for example for reservations `setres_reservation()` ***See*** Pre-Assign buttons description For more information ***see*** UserEvents UserEvents for PreAssign
Pre-assign all	All entries are marked and then reserved. ***See*** Pre-assign and Pre-assign Quantity (manually) above.
Delete reservations	All reservations are deleted
Filter	**With shortage:** Display only items which still need to be allocated **Only allocation ID**: Only items with activated allocation ID (item master – allocate) **Standard:** All items which need to be allocated

© 2026 Boyum IT Solutions A/S

	All: All items. Also items which do not need to be allocated
Create Request	- visible in WO Stock Transfer Request window. With this button you can create a stock transfer request by pre-assigning quantities for the requested materials of a work order. The created request is then displayed in the work order structure. ***See*** WO Stock Transfer Request creation process.
All Allocate	- visible in External Production - Deliver Provisions Transfer all provisions
Close Transaction	- visible in External Production - Deliver Provisions Close transaction when creating the Goods Receipt Purchase Order document.

Right-click menu

Item	Meaning
Reservation list	Opens the reservation list
Reservation delete	Deletes existing reservations.
Filter: All	Lines which have been posted are also displayed.
Filter: only requirement	Standard view. Only lines which have not been posted are displayed.

Buttons below

Button	Meaning
Reservation list	Open the reservation list.
Inventory history	Open inventory history for the selected item.

Notes

- WMS, SAP and Beas Bin management system is supported.
- Beas RFID and WMS Luid is supported.
- Not possible to create issue for the same batch from different Bin locations or same Bin locations but different RFID/LUID.

back to list of provision parts
back to work order general

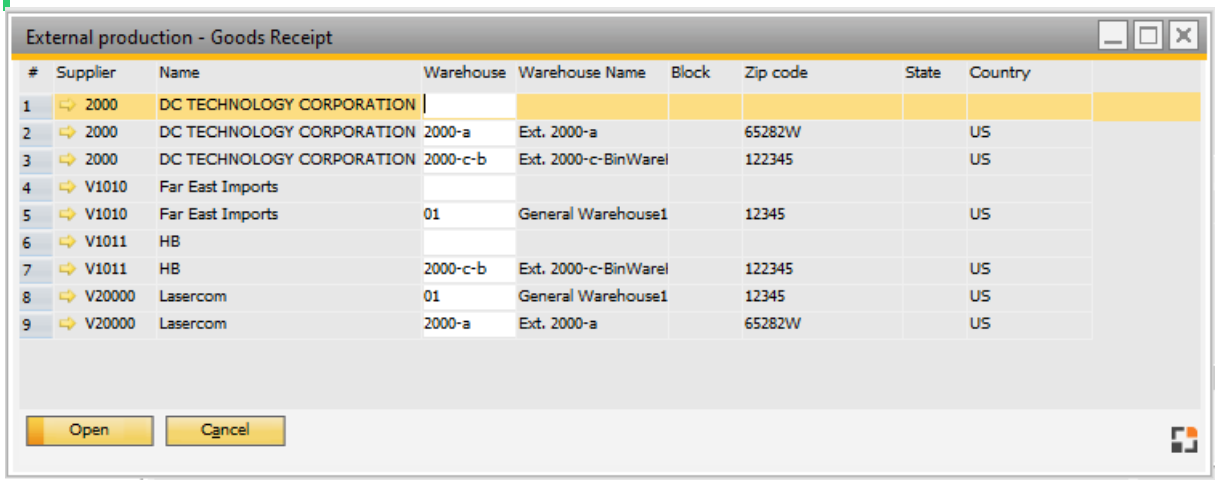
© 2026 Boyum IT Solutions A/S

8.13.1.3 External Production - Goods Receipt

If the external supplier has delivered their service, the service can be posted in here. In this list all suppliers with existing purchase orders are displayed.
Use "Open" to show all details of the purchase order and to process the goods receipt.

Via **Right-click > Layout** a report can be stored. It is printed automatically after creating the goods receipt.
If provision parts are used or a backflushing process is triggered, printing takes place before these.

PATH: Production > External production > Goods receipt from external production.



Window fert_external_openorder_browse.psr

Field descriptions

Field	Description
Supplier	External supplier.
Name	Name.
Warehouse	External warehouse of Supplier. Warehouse is displayed – according to window settings – with icon and color defined in the warehouse. The warehouse is displayed to which the related material has been provided. No material can be provided if no warehouse is entered.
Warehouse name	Name of supplier warehouse.

© 2026 Boyum IT Solutions A/S

Address, city, state, ZIP, country	Supplier address.
Block	Address supplement.

Functions

Field	Description
Open	Open Goods receipt document.
Cancel	Close window.

Right-click menu

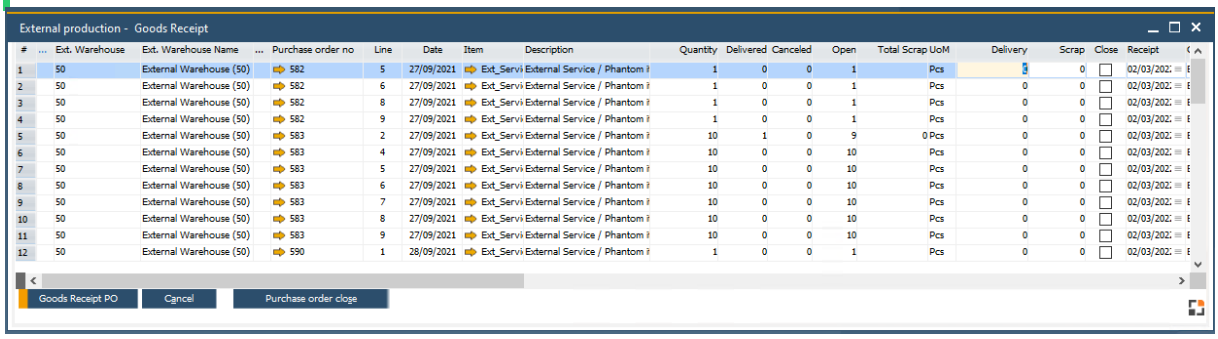
Field	Description
Window settings	Opens window settings for this window.
Refresh window	Refresh window content.

back to external operation

8.13.1.3.1 External Production - Goods Receipt of Supplier XXXXX

Goods receipt from external operation is processed and completed in this window.
The delivered quantity and scrap can be entered here.
If less than the full quantity was delivered, the operation stays open. To complete it, the switch "closed" needs to be activated.

PATH: Production > External production > Goods receipt from external production > click **Goods Receipt PO** button.



Window fert_external_openorder_edit.psr

Further action

Goods receipt can call other actions which depend on further settings:
- Last goods receipt: automatic posting of the assembly or issue the materials (backflushing)

© 2026 Boyum IT Solutions A/S

- Provision parts: issue provision parts.

See Configuration wizard – External operation – Goods receipt, Production – Material issue.

- Stored cost type in assigned operation sequence: create a journal entry. ***see*** Routing – Cost type, Cost types

- Create Quality control orders if an Inspection plan was stored in the assigned operation.

The following fields are displayed by default. Use window settings or templates to adapt the window.

Field	Meaning
Barrel icon	Empty: no quantity Green half -full: not enough quantity Green full: correct quantity Red: too much entered
Icon	Icon of external warehouse
Ext. Warehouse	External warehouse ID
Ext. Warehouse Name	External warehouse name
Purchase order no	Purchase order number.
Line	Item line.
Date	Date of purchase order.
Item	Item.
Quantity	Total purchased quantity.
Quantity (Assembly quantity)	Assembly quantity multiplied by the defined Conversion factor. ***Example:*** If Quantity = 500 and the Conversion factor is 0,02, then the Assembly quantity = 10
Quantity (Assembly quantity without factor)	Assembly quantity without factor - the defined Conversion factor is ignored.
Canceled quantity	Canceled quantity.
Delivered	Quantity already posted in via External operation – Goods receipt (including scrap).
Scrap	Total amount of reported scrap.
Delivery	⊟ Delivered Quantity to be posted in. Enter the quantity (in purchase units) which has been delivered and accepted. Scrap quantity may not be

© 2026 Boyum IT Solutions A/S

	considered here. This field is displayed selected in the first line by default. If the option Production > External production > Goods receipt > Max. Purchase quantity was enabled, you can enter the open quantity. If the total purchase quantity has been delivered, the document is closed automatically. Scrap quantity is not taken into account. Subsequently, the purchase order cannot be opened. A new purchase order needs to be created.
Scrap	Quantity of scrap in delivered quantity Enter a quantity which cannot be used anymore. **Note**: Scrap is saved in goods receipt document. That why scrap cannot be reported without entering an amount into yield quantity. Value is saved in pdn1.u_von_lag When issuing provision material, the scrap quantity is taken into account. ***Example:*** For each delivered piece a plug is provided. Goods receipt: 2 yield, 1 scrap: 3 plugs are issued. **Concepts** Reporting scrap the document is not closed automatically if the planned quantities of yield and scrap were reached. The documents needs to be closed manually by using the "close purchase order" button. For subsequent delivery a new purchase order needs to be created.
Close	If active, the order is closed. Receiving the planned quantity, the order is closed automatically.
Receipt	Date of receipt.

© 2026 Boyum IT Solutions A/S

Comments	Comments entered here are transferred to goods receipt document.
Provision	Provision parts.
Supplier	Supplier.
Total scrap	Entered scrap + already reported scrap.

Additional columns are available for references to client, warehouse, operation and item.

Buttons

Function	Meaning
Goods receipt PO	Goods receipt is processed. Per line a separate goods receipt is created. A collective goods receipt is impossible, because SAP Business One would summarize the costs to one journal entry. Then, the entries (work in progress) could not be assigned correctly to the single work orders. To report only scrap is not possible. The scrap quantity is stored in the field `pdn1.u_von_lag`. Further actions may be triggered by goods receipt. ***See*** further actions. NOTE: Beas does not support "Freights from SAP documents", and freight is not copied from the origin document when creating a Goods Receipt PO from external production.
Cancel	Close window without changes.
Purchase order close	The current purchase order is closed, even if the delivery was not complete.

back to Goods receipt external operation

8.13.1.4 External Production - Issue provision

This window displays active provisions which can be selected for editing. The external operation is completed by issuing parts from an external warehouse.
Select and click **Open** to edit the document.

© 2026 Boyum IT Solutions A/S

PATH: Production > External production > Issue provision parts

Window fert_external_delivery_browse.psr

Field Description

Field	Meaning
Goods Receipt	Document of goods receipt.
Date	Date of the document.
Supplier	Supplier of the external operation.
Name	Name of Supplier.
Warehouse	Supplier warehouse.
Delivery Date	Date of goods receipt.
Reference	Reference.

back to external production

8.13.1.5 External production (default)

Prerequisites

Item

Although external production is a service (e.g. powder coating, which is provided by a supplier), it is created as an "Item".

Important: Do not create as a stock item! "Scheduling" is chosen as a planning method, and "Buy" as a Procurement Method.

For recurring items, it is advisable to assign a unique item number as this simplifies price determination.

External operation

In the Operation catalog a new operation for external processing needs to be created with active properties "external" and "create purchase order"

© 2026 Boyum IT Solutions A/S

In the Work Order a new Operation e.g: 1000 "external processing" is created. To this operation the supplier and the item is assigned.

Resources

A resource for outsourcing is required. In this resource an external cost type is to be stored.

External warehouse

An external warehouse needs to be set up and assigned to a supplier. ***see*** Extended warehouse settings

Further settings:

Pricing

Important: You can specify the price, but it will be overwritten by price determination.

Pricing is defined in the Beas Menu under **Configuration wizard > Production > External production > Purchase Order and Provision**

Select an option for the default item (e.g.: Powder coating) and the preferred setting for pricing (e.g.: Last purchase price). This price determination applies to all items.

Work Order

An external work order is defined by including an external resource. There are several possibilities for creating work orders:

- Unique external production: first select the work order, then pick out the appropriate operation using the context menu (right mouse button)

then chose [Create Purchase Order].

- Several selected work orders: chose the desired work orders (press left mouse button, a red plus appears) after this using the context menu (right mouse button) select Collective Purchase Order.
- All work orders in Beas: **Production > External production > Collective Purchase Order.**

A new window "**External production > collective purchase order**" opens.

Collective Purchase Order

If all defaults have been specified, the supplier, price and item are already selected. You only need to enter the required quantity.

The description is displayed in the purchase order as the item description. The long text of the description is displayed in the purchase order as free text.

Press [Order] to create the purchase order in SAP Business One.

© 2026 Boyum IT Solutions A/S

Goods Receipt

If the external delivery by the external supplier has been carried out, goods receipt can be booked.

Beas Menu: **Production > External production > Incoming Goods for external production** or select it in the work order via context menu (right mouse button)

The Incoming Goods of the External production is displayed as grouped by supplier and stock. By double-clicking a line, details appear.

Typing the delivered Quantity in displayed and clicking on [Incoming Goods]. Subsets also can be added to stock.

Partial quantities can also be entered.

8.13.1.6 Pricing and transport costs

The transport costs can be calculated directly for the precalculation and also for the purchase order.

The following fields are available for this:

Field	Meaning
Supplier	Default supplier. If this is specified, it is loaded by default in purchase orders or quotations and the pricing considers the special price list of the supplier if no price was specified for unit price. ***See*** Configuration wzard – Choose Supplier
Item	The service item is specified here. This is a non-inventory-managed item, as it is a pure service. If no unit price is specified, pricing is carried out for this item.
Unit price	Service price per price factor ***Example***: €10 per 1000 price factor corresponds to a price of €0.01 per unit If no price is specified, the price is calculated using the default pricing. ***See*** Configuration wizard – Pricing
Price factor	Unit price is stored per the value entered here
Minimum price	The minimum price is specified here. If the total unit price is below the minimum price, the value specified here is used.

© 2026 Boyum IT Solutions A/S

	Example €10 € per 1000 units, minimum €30 For 1000 units €30 is calculated (minimum price) For 10000 units €300 is calculated (unit price higher than minimum price)
Transport price	The transport price is also added. This is payable per transport lot size. ***Example*** €10 € per 1000 units, minimum price €30, transport price €100, lot size 5000 1000 units are €30 + €100 transport price = 130 € For 10000 units: €300 € + €200 € transport price (2 x lot size) = €500 €
Shipping per	The quantity specified here can be sent per transport. see Transport price ***See*** Transport price

See

Collective Purchase Order – Price per unit

Configuration wizard – Purchase order and provision

back to external production

8.13.1.7 Concept of External Production

External production as last position

Definition: Last position = last reportable position. When the last position is reported, the assembly is automatically entered, and the work order position is closed (if applicable).

If the external production operation has submitted parts, the receipt is only affected if the posting of the submitted parts is marked as "Done". Otherwise, the receipt is carried out when the goods are received.

© 2026 Boyum IT Solutions A/S

Warning:
If an assembly valuation is performed at costing analysis price or a journal entry is made on the basis of the WIP functionality, and there is no purchase invoice for these incoming goods at that time, the price as per the incoming goods (and therefore) the price as per the order is used as a reference for the order - depending on the configuration of the valuation methods.
If a different value should be subsequently entered in the purchase invoice, this is no longer considered.

Special case – WIP:
If the work order was already closed and the purchase invoice is created with another value only then, correction is possible as follows:
1. Open the work order and the assembly in question
2. Close work order and the assembly in question again
Beas automatically performs the correction postings which are necessary.

Provision on a central warehouse:
If a bin location warehouse is defined as external warehouse and a supplier is not stored there, this warehouse is automatically used for External operation - Provision if no other warehouse with supplier was found. u
IMPORTANT: This warehouse must be a bin Warehouse.

All provisions will now be posted to the warehouse with the ID of the business partner according to the purchase order.
Advantage: you need only one warehouse; goods are distributed on bins. If there is no bin, it is created automatically.
For backflushing (issue provision parts) at automatic pre-allocation, only the inventory on the supplier's bin is considered.

Note: for manual selection all bin locations are available.

As service order

Note: This concept is provided for compatibility reasons and must be activated via Configuration wizard > Production > External production if required. The system is not recommended generally.

© 2026 Boyum IT Solutions A/S

If an "External operation resource" is added to a resource in an operation, no times but costs are defined for this.

An external delivery note can be created via Work Order – Delivery Note.
More parameters can be stored in this way:

Field	Meaning
Supplier	Can be specified in the position.
Delivery Date	Delivery date of the goods produced via external operation
Price	For price determination, ***see*** below.
Quantity	Quantity of external service
G/L Account	Can be selected. Beas stores last input.
Tax ID	This field is normally invisible. You can make this field visible using the window properties. Usually, no change is necessary, since the tax ID as per SAP Business Onesettings is used.
Purchase Order Description	Text on order
Info	Further information

A service order is then automatically generated in SAP Business One. In terms of inventory, no transaction takes place.

External operations do not have to be reported.
However, there will be an invoice for the service order. For this purpose, the invoice is created via a call up from the service order. The production costing analysis considers the price according to invoice.

Service orders do not have any quantities or individual prices.
Beas only saves the total price and the quantity in the "Number to produce" field.
This is the user-defined field u_beas_fpq.
The allocations to the work order are also saved in the 'word order document' (u_belnrid), 'work order position' (u_belposid), and 'routing position' (u_posid) fields.

Price determination

© 2026 Boyum IT Solutions A/S

If a special price list is stored for the assembly for which an external operation is stored, this price list is used as a price for the external operation.
Therefore, this price is not the price of the assembly, but the price for the external operation.

Date definitions and scale prices are supported.

The prices are stored "per quantity" as per the external operation.
This means that if the column contains "per 1000", the price in the price list should be read as "Price per 1000 units"*.

see
Resource
Routing

8.13.1.8 External production with provision

If the external supplier requires material for external processing, that material can be transferred to this supplier stock. This is called "Provision" in Beas.

External operation
For assigning provision material to an operation of external production, it is inserted in the Bill of materials. By choosing a work order position (field Apl.Pos) the provision material is associated with the external operation.

Supplier Stock
For each external supplier a warehouse in SAP Business One has to be created as follows:
Administration > Setup > Stock Management > Warehouse > Add

Example: "L123" fill in address fields, tick the box "nettable" (scheduling-relevant flag)
Add the warehouse. Select it again and click [extended].

> Note: This button is only available in the integrated version (SAP & Beas).

Required settings:
- Warehouse type: External Storage
- Supplier: please select a supplier

Selection of work orders
External production as described in the previous chapter (default)

© 2026 Boyum IT Solutions A/S

Batches:
You must enter batch-managed items using [Single provision].

For batch-managed items, the window is split in two. The batches can be selected in the bottom section. Multiple selection is possible.
Multiple batches can also be used here. (=multiple partial quantities). Double-click on a batch entry to load the requirement quantity into the batch quantity automatically.

When you have finished selecting provision quantities, click on **Finish**. A unique number (= provision number) has been assigned for all items in this provision.

Collective purchase order
A new window, "External production – Collective purchase order" is displayed. It displays the address of the external warehouse to which provision material is to be posted. The long text of the description is displayed in the purchase order as free text. The description is displayed as item description.

Now you just need to enter the required quantity and the target stock of the external supplier. Press **Order** to create the purchase order in SAP Business One. To complete the order, the provision material needs to be transferred from the store to the selected target warehouse. This action allows you to determine how much material is available and from which supplier at any given time.

To perform the transfer, either select the operation in question via the pop up menu [Provisions] or select **Production > External Production > Provisions.**
Double-click on a row to display the details of the transfer. (shown in window "Stock transport")

Use **Fill PO quantities** to insert the quantities from the purchase order. Batch- or serial number-managed items are not inserted. Inventory location-managed storage locations are not supported.
Enter the required quantities (partial quantities are also permitted) and click on [Reserve].
Purchase orders for external operations can be created in this window.
In the top window, the external operation is selected; in the bottom area, the detailed information is input.

Goods receipt
Goods receipt is performed as described in the previous chapter (default).

© 2026 Boyum IT Solutions A/S

To close the goods transaction, you must transfer the inventory from the supplier store. Select in Beas menu **Production > External Production > Issue Parts Submitted**.

All items for which a goods receipt has been performed are displayed. Select a row and [Edit] to display the details.

Enter the required quantity in the Issue field and click on [Issue individually].

The system may only permit batch-managed items to be entered individually, in which case a dialog is displayed for selecting the quantity and batch.

Click on [Finish] when you have completed the transfers.

back to external operation

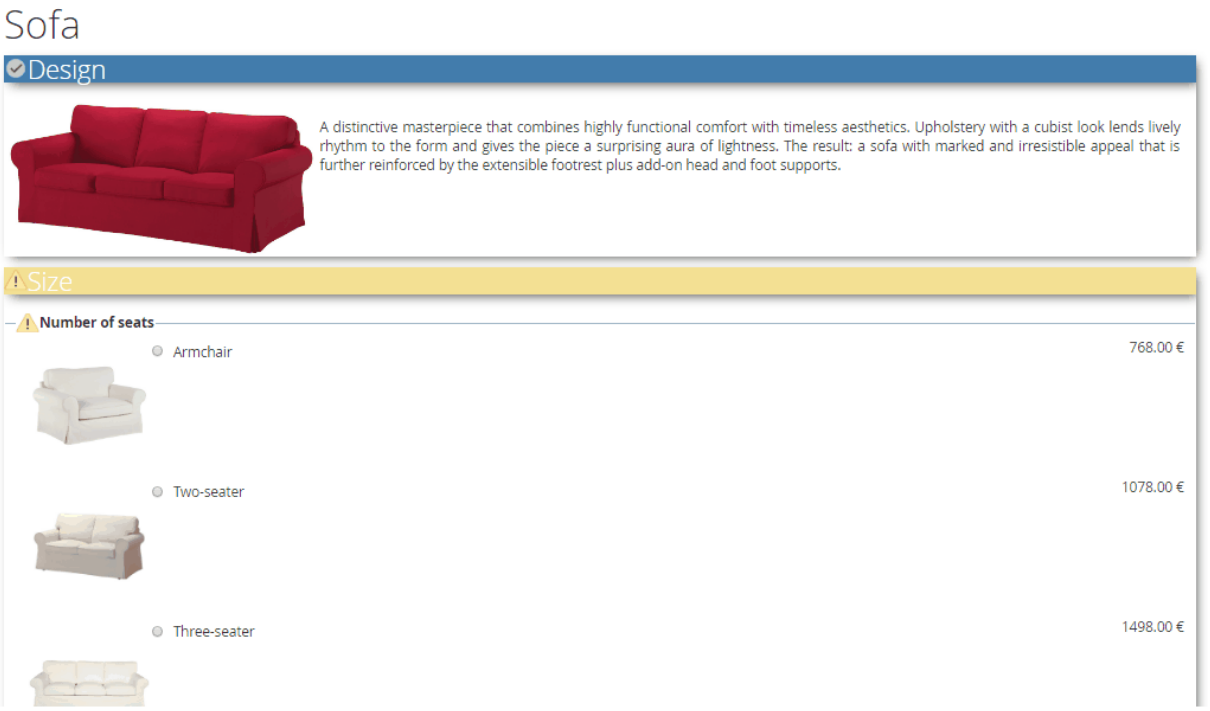
8.14 Product Configurator

Use the Product configurator to configure products in different stages of the business processes. The configurator allows you to generate item, routing, and Bill of materials variants easily. Unlike variants, you have the option of forming an infinite number of configurations.

You can enter important parameters that characterize a product when creating a customer order or customer quote, so that variants of the products can be defined in Sales already. The product configurator provides a convenient visual interface for this purpose.

Taking the example of configuration for a sofa: If a customer order for such a sofa is created, you can open the configurator from within the order. Now, you can make product-specific adjustments, such as the size or cover fabric of the sofa. This defined characteristic of the “sofa” item is called a variant.

© 2026 Boyum IT Solutions A/S



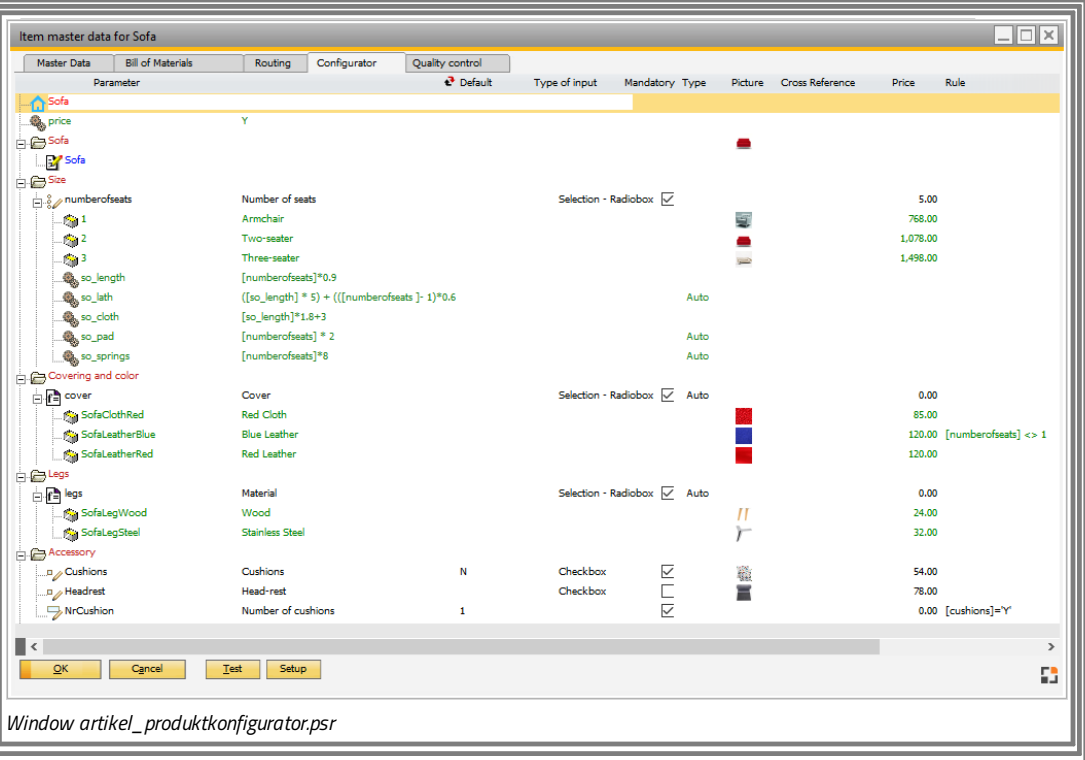
You can then generate multilevel work orders directly from a variant, customizing the bill of materials and the routing according to the specifications from the variant – e.g. by including the selected cover fabric in the BoM. You can also calculate an existing variant.

- Start configurator

  The configurator is available in two variants:
  - WEB variant
  - Beas / SAP Business integrated variant

  - This is available via:

© 2026 Boyum IT Solutions A/S



Window artikel_produktkonfigurator.psr

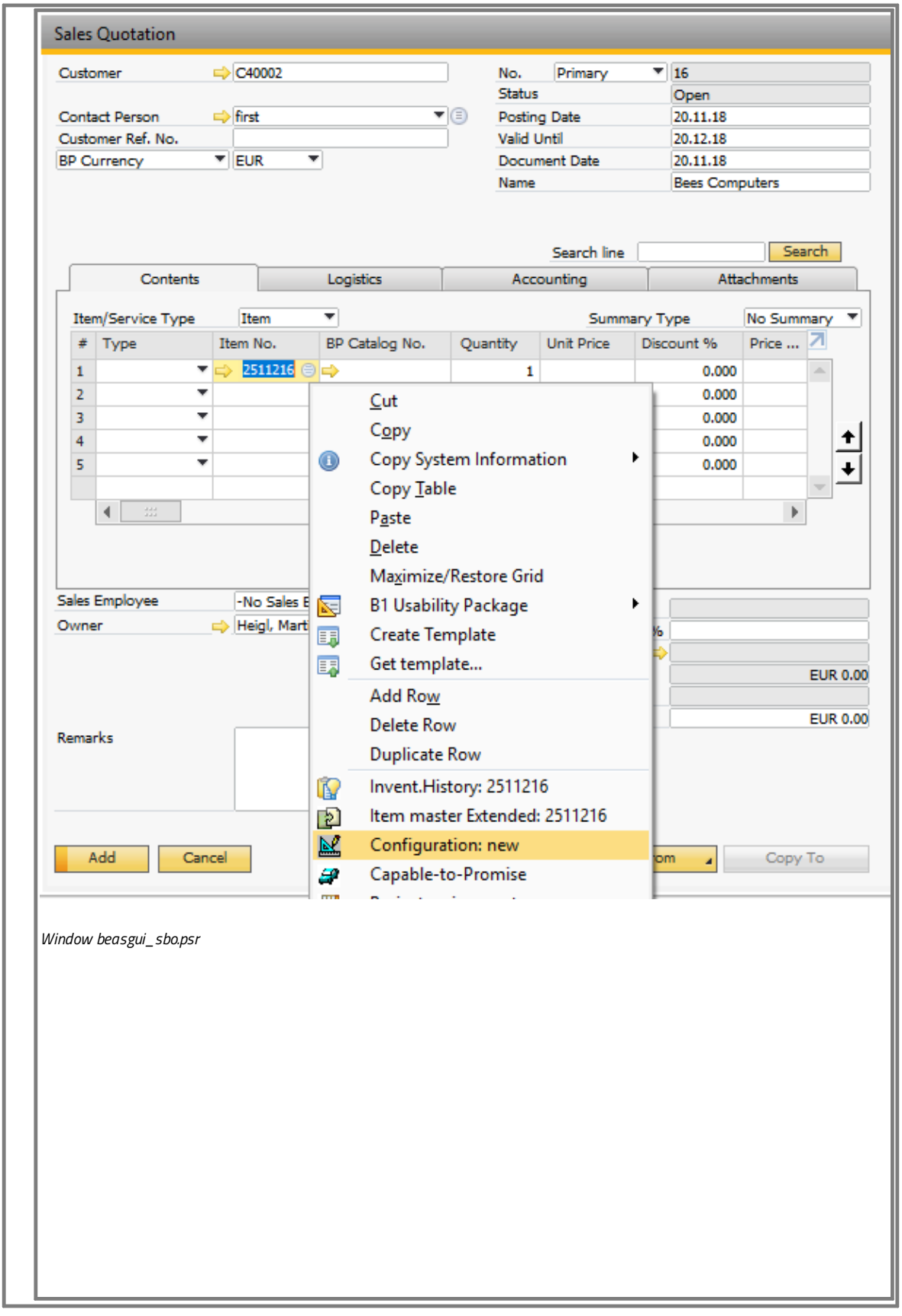
Quotation and Sales order

It is possible to call up the configurator from a Sales Quotation or Sales Order. You can select an item in which a configuration is stored and define data on master level (***see*** image below: Item master Extended: xxx).

After selecting the customer and the item of the SQ or SO, you can call up the configurator by:
right-click on the item > "Configuration: New". ***See*** image below.

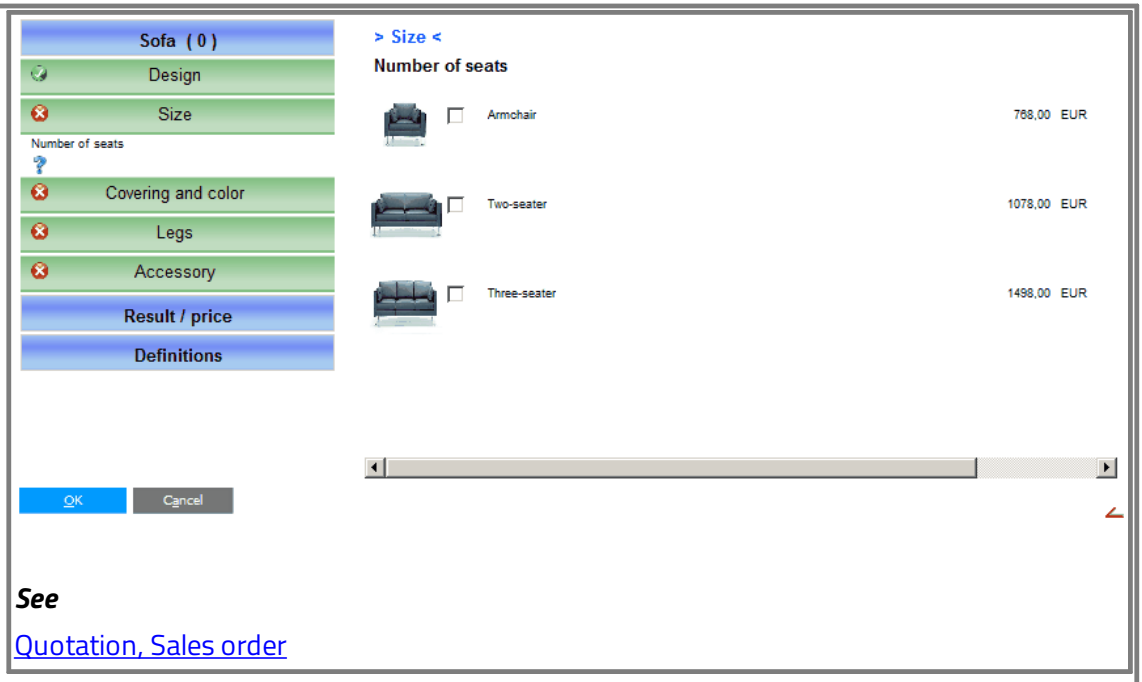
- optional: create Precalculation
- optional: transfer price directly

© 2026 Boyum IT Solutions A/S



Window beasgui_sbo.psr

© 2026 Boyum IT Solutions A/S



See

Quotation, Sales order

Order-related production

The system can also access Formulas, Tables, Variables or scripts that were created in the Variant generator . You can use these references to control variant-dependent BoM quantities or add/remove BoM positions.

An example here would be a sofa produced in different lengths.

The quantity of the cover fabric depends on the length of the sofa. The Beas product configurator now allows you to calculate the required material based on the length of the sofa. To do this, store a formula for its calculation with the quantity in the Bill of materials of the cover fabric. The length - if so defined - can now be used at all levels of the BoM breakdown, so that e.g. the quantity of screws can be calculated depending on the length.

You can also modify operations to determine dependent machines or calculate times.

Another important flag to modify BoMs is the "Active" flag. You can also store formulas here that can then deactivate or activate entire BoM positions with the result "Y " or "N". For the sofa, for example, the sofa cover to be ordered could be selected depending on the color.

Product Configurator and WEB Configurator - Introduction

New in Beas 9.3

Better Performance in Beas 9.3

Configurator definition

Configuration (integrated)

Configurator (Web solution)

© 2026 Boyum IT Solutions A/S

Magento Plugin

Training unit 12 Product configurator

Training unit 12a additional examples and data flow

Webinar about Product configurator

Video: Product configurator with scripts

- Calculation of item variants during the sales process

  You can perform a calculation for a line, according to its variant, from a quote or order in SAP Business One The calculation is always performed for the line where the cursor is positioned. Parameters not defined in the variant are queried explicitly during the BOM breakdown. A calculation structure modified according to the parameters is created. The result is usually displayed to Beas in the calculation window. You can also convert it into a work order.

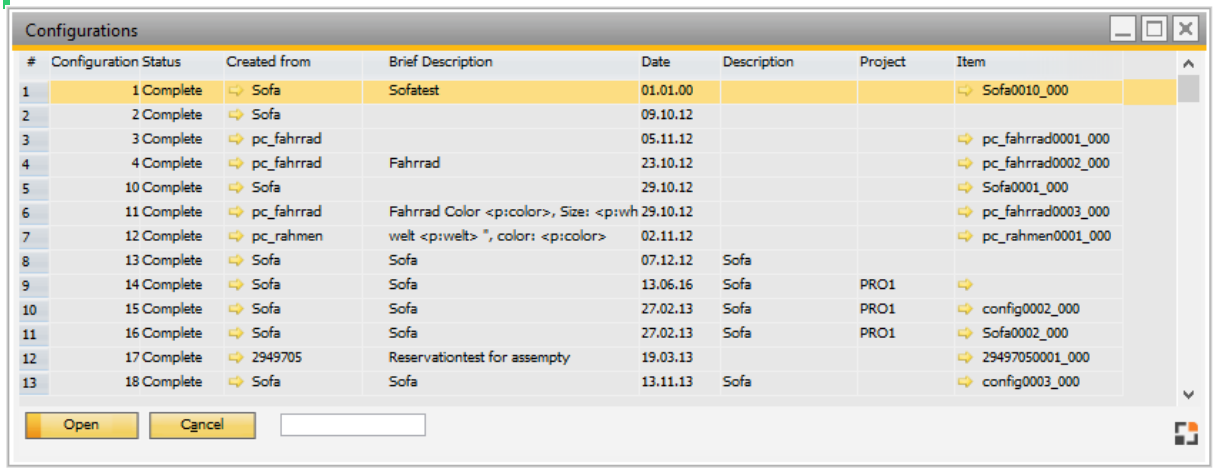
- Production of customer order-based variants

  Use the Beas function "Customer order for work order" function to generate a work order for a customer order line. This transaction considers the corresponding variant. In other words, the parameters are evalued during the breakdown according to their occurrences. An order structure matching the variant is created. Parameters not predefined are queried during the BOM breakdown.

8.14.1 Configurations

This window lists all existing configurations.

PATH: Production > Product Configurator > Configurations



Window caft_variante_kopf_browse

© 2026 Boyum IT Solutions A/S

Field	Meaning
Configuration	Nr. of configuration or variant
Item	Item number
Created from	Item number, from which the configuration was created
Brief Description	Short description (max. 255 characters)
Date	Date of creation
Description	Description (max. 16K characters)
Project	Assigned project

Function	Meaning
Open	Open the Editing window for the selected configuration.
Add	Create a new configuration Create a new configuration.

see:

Configuration wizard – Production – Product configurator

Create new variant

back to introduction Product configurator

8.14.1.1 Configurator (integrated)

The product configurator is usually called when creating quotes or orders in SAP Business One using the right-click menu. (create new configuration, or select configuration No.) After completing the configuration, the variant ID is saved in the document line in field "variant".

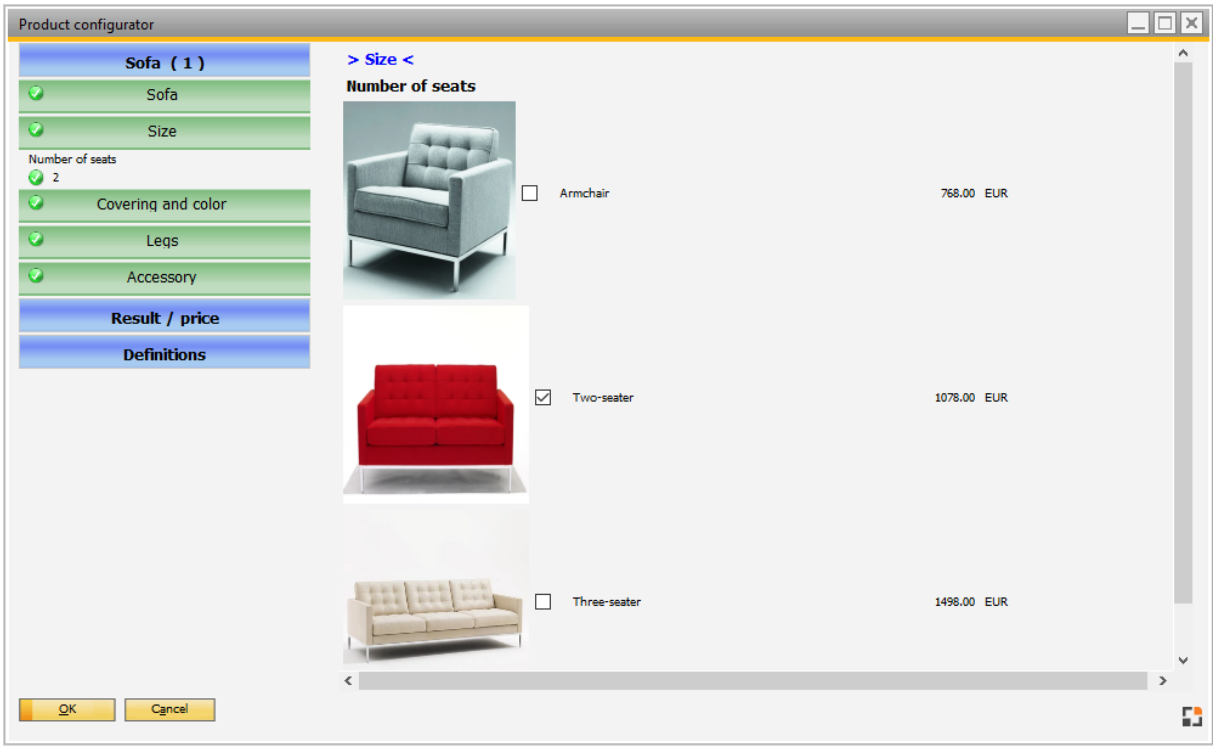
Graphical User Interface

The product configurator basically consists of two areas – the navigation area on the left side, and the detail area on the right.

PATH: Item master data > Configurator tab > item > **Test** button

On the left, elements of the configuration are displayed in green (in sofa ***example***: design, size, legs, accessory). These elements can be expanded.

© 2026 Boyum IT Solutions A/S



Window prd_links2.psr

Blue buttons on Top:

Field	Meaning
Description/Header	Configuration name, defined in dedicated configuration structure. The assigned variant number is displayed in brackets. "0" means new creation.

Blue buttons on bottom:

Field	Meaning
Result/Price:	All elements are displayed in a table form, including description, amount, and total price (if price processing was selected in the header line of the configuration structure). Note on price usage A price calculation takes effect only if the checkbox "use prices" is marked in the configuration structure "Header". ***See*** also: Object-Type "Header"
Definitions:	Displays the configuration data (***see*** fields in table below).

© 2026 Boyum IT Solutions A/S

Field	Meaning
	Additionally, the system checks whether the configuration was saved before. In the Configuration wizard you can set up whether in that case the configuration should be loaded automatically or only when a note is displayed.

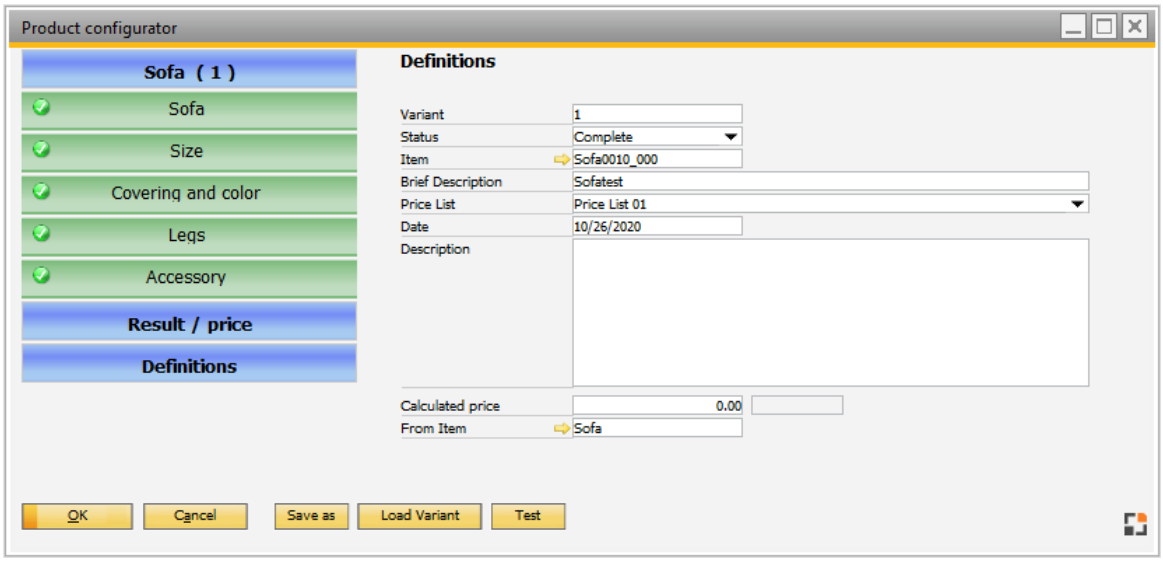
Left navigation area

Clicking on buttons will display detailed information on the right.

- Results/Prices:

Field	Meaning
Item	Content of the assigned variant
Description	Description of the assigned variant
Price	Display the determined price

- Definitions



Window prd_links2.psr

Field	Meaning
Variant	Variant ID (not changeable)

© 2026 Boyum IT Solutions A/S

Status	Current Status of this configuration Status can be - Draft - Complete - Release locked If all mandatory fields are filled, Beas sets the status automatically to complete. You can create a work order, calculation or new item only if the configuration is complete. If the configurator is not complete (all mandatory fields are filled), it is not possible to set the configuration to "complete". You can change the status manually from "complete" to "draft". In this case the system never sets the status back to "complete" and you must define the complete status manually. if you change the status manually, the entry is blue. Define "Release locked" if you want to release (Status Complete) this configuration manually. **Attention:** All configurations created with Beas 9.3 PL 1 or older always have the status "complete". *beas 9.3 PL 2*
Item number	Item number
Brief description	Short description of the configuration Will be created automatically if this is defined in the Configuration definition *(Object-Type Header)* This field is mandatory.

© 2026 Boyum IT Solutions A/S

	If the configurator is opened from sales order, Beas will insert this description in the sales order. If you create an item from this configuration, Beas will insert this in the new item in field "Description" of new item. *only beas 9.3 PL 2 and later* Manual changes have higher priority. If you change this, the font color is blue. If you want to go back to the automatically generated description, you should only delete the Brief description.
Price list	Definition of the price list which is the basis price presentation in the configurator (if price processing was selected in the header line of the coding)
Date	Date of configuration
Description	Description of the configuration Will be created automatically if this is defined in the Configuration definition *(Object-Type Header)* This field is mandatory. *only beas 9.3 PL 2 and later* Manual changes have higher priority. If you change this, the font color is blue. If you want to go back to the automatic generated description, you must only delete the Brief description
Calculated price	Calculated price of the current configuration (if price processing was selected). Note on price usage A price calculation takes effect only if the checkbox "use prices" is marked in the configuration structure "Header". ***See*** also: Object-Type "Header" .
From item	Original item displayed here.
UDF1..4	You can define up to 4 UDF's. ***See*** Configuration wizard.

© 2026 Boyum IT Solutions A/S

	With BeasScript or Beas Usability Package you can define up to 15 UDF's. *beas 9.3 PL 2*

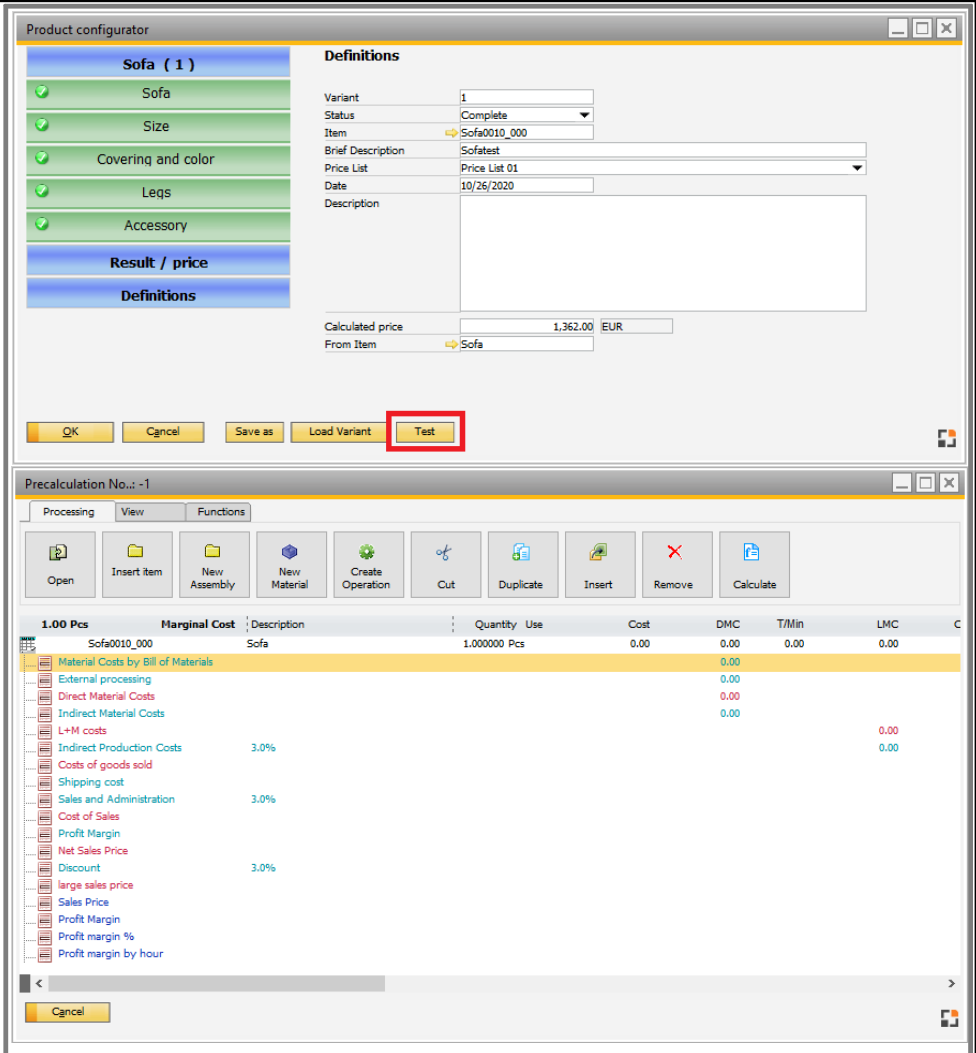
Buttons below

Field	Meaning
OK / Update	Save Configuration If current page is not the last page of the configuration, Beas automatically changes to the last page. You can't save configuration only if Brief Description is filled If a work order, closed sales order, Precalculation or closed quotation exists (with this linked configuration inside), it is not possible to save the configuration. In this case, you can copy the Configuration. If not all mandatory fields are filled, it is not possible to use the configuration. You can save it, but you cannot create a calculation or work order. ***See*** field "Status" The system checks if this Configuration exists with another number. If yes, it can load this existing configuration. ***See*** Configuration Wizard. beas does not check this if you clicked on "Save as" before. If you start this from Sales order or Quotation, beas saves Brief Description, Configuration Number and calculated Price back to the document.
Save	Save current Configuration as new Variant if you click on "Save", Beas deletes the Variant number, sets Status to "Draft" and deletes entry "new item" ***Example***: You would like to open a configuration to change it: This is not possible because the configuration is in "use". For this you need a new number. Click on "Save as" and you can change every piece of information.

© 2026 Boyum IT Solutions A/S

	If you click on "Update", Beas will not check if a configuration with the same settings exists. Beas will always create a new entry.
Load variant	Load an existing variant Beas opens a window with all existing variants. Click on "Load Variant" to load it in the current window. **Attention:** You lose all changes in current window.
Item create	Create a new item from the configuration. You can use the product configurator to create new items. Stored formulas (in item, BoM or routing) are resolved, new entries are created. This Button is only visible if - Calculation is saved - Status = complete - **Configuration Wizard > Production > Product Configurator > Item Creation** is active ***See*** Generate Item
Test	Save the configurator definition and open the Configurator in test mode With the test mode it is possible to check the configuration directly from "Definitions". By clicking the Test button, the Precalculation results window for the current configuration opens:

© 2026 Boyum IT Solutions A/S



Window prd_links2.psr

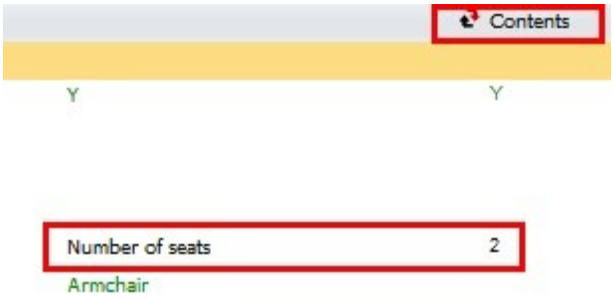
In this test mode the left window is linked directly with the configurator

1. If you change anything in the left window, you can see the changes directly in the right window.
beas does not refresh the following actions:
- if you change order of entries
- if you insert or delete new entries

2. In the definition window > replace icon you can switch from "Default" to "Contents"

© 2026 Boyum IT Solutions A/S

In Contents mode you see directly the value, which you chose in the configurator window.



Window artikel_produktkonfigurator

3. Beas marks lines in red background color if Beas found a formula error in configuration

beas 9.3 PL 1

See Product Configurator and WEB Configurator - Introduction

back to product configurator

8.14.1.1.1 Generate Item

You can use the product configurator to create new items.
Stored formulas (in item, BoM or routing) are resolved, new entries are created.

This Button is only visible if
- Calculation is saved
- Status = complete
- **Configuration Wizard > Production > Product Configurator > Item Creation** is active

NOTE:
New items can be created which require their own warehouse management, prices etc.Beas does not require this functionality, because you can use variants without having item master data. for example via Precalculation → Production or direct creation of work orders.

© 2026 Boyum IT Solutions A/S

Use this functionality only if you want to produce based on stock.

In case of storage-related assemblies, the system checks whether a new item needs to be created for this position. All parameters are checked which are stored in "Configuration" tab of the sub-assembly.
No entry: no check; item will not be replaced
Parameters stored: parameters are only checked

- Order-related structure

The behavior depends on the option "Create items with same configuration"

Configuration Wizard, setting "Default" = always for order-related items

A new item is always created for order-related sub assemblies.
For this purpose, formulas for the configuration are created in the sub-assemblies, as required.

Note:

If there is an item with the same configuration, the new item will still be created if its scheduling ID was set to "order-related" or "phantom assembly".

Benefit:

This provides for the configuration to be considered in all sub-assemblies.

Disadvantage:

A lot of items are created.

Configuration Wizard, setting "Automatically"

Independent of the scheduling ID, a new item will not be created if an existing configuration was found. Instead, this item will be used.

Entries in the Configuration tab of the sub-assemblies are checked:
If there are no entries stored, nothing will be checked and no item will be created.
If parameters are stored, they will be checked.

- Storage-related structure

In case of storage-related assemblies used for an item, the system will check whether a new item needs to be created for a BoM position. The system checks whether these assemblies have a configuration and thus have defined parameters which are stored in the "Configuration" tab of the sub-assembly.

© 2026 Boyum IT Solutions A/S

No entry: Item/Assembly will not be replaced

Parameters exists/stored: Item/Assembly will be replaced during creation of new item.

Example

„Bicycle“: Parameter "color" and "size“

I--------sub-assembly "wheel“ – only "size“ matters

In the product configurator tab the parameter "size" is stored in the sub-assembly "wheel“.

If now an item is generated for "bicycle“, color "red“, size "40“ the following items are created:

Bicycle_0001_001 (Basis item "bicycle“)

Bicycle_0001_002 (Basis item "wheel")

If later an item is generated for "bicycle“, color "blue“, size "40“, the following items are created:

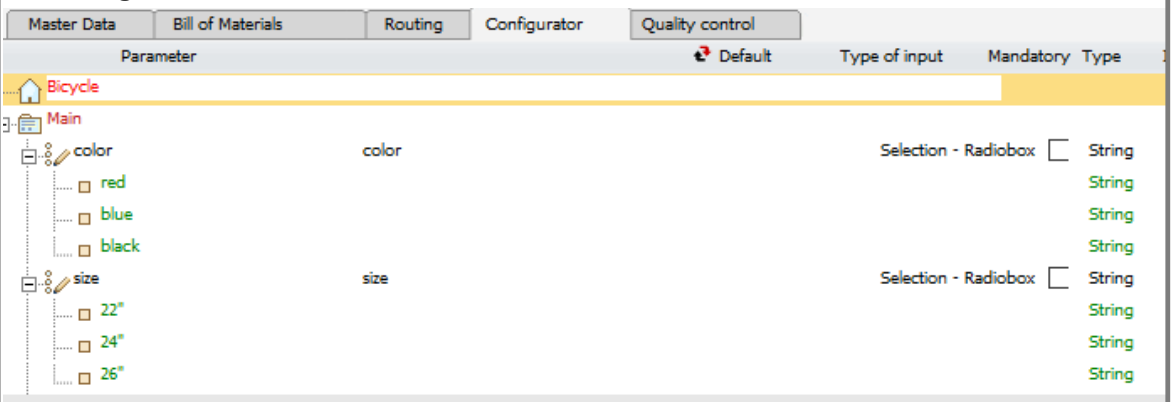
Bicycle_0002_001 (Basis item "bicycle“)

As BoM item "bicycle_0001_002“ is used, because it is of size "40“ and can be re-used.

Example

Item with the following structure,

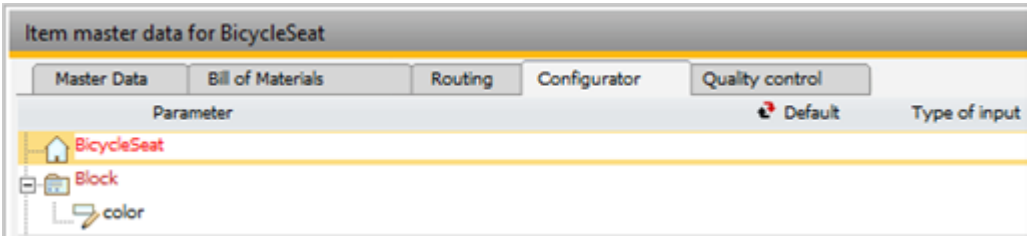
and configuration:



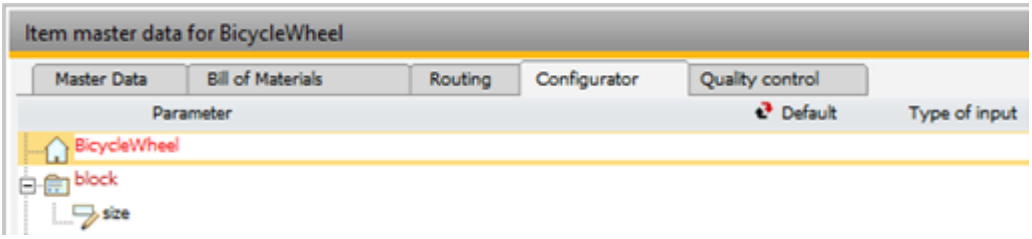
© 2026 Boyum IT Solutions A/S

So that, at runtime, the configurator could also tell that a material or an operation should be changed within an assembly, it must be provided in the assembly with its own configuration.

For changing the color of the seat (property of Assembly “BicycleSeat”):



For changing the size of the wheel (property of Assembly “BicycleWheel”):



The behavior depends on the option "Create items with same configuration" Setting is "automatic".

Creation of an Item for configuration with color=”red” and size=”22”

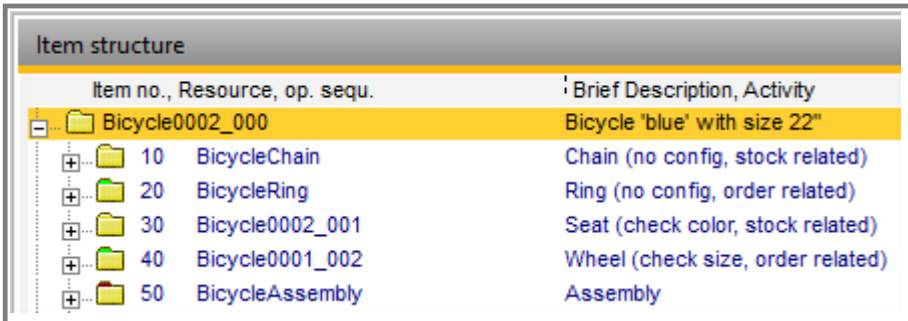
The system creates the following item structure:

In this case, the sub-assemblies are created only for position 30 and 40. This comes from the fact that the two sub-assemblies have a configurator coding with a defined parameter.

Creation of an Item for configuration with color=”blue” and size=”22”

The system creates the following structure:

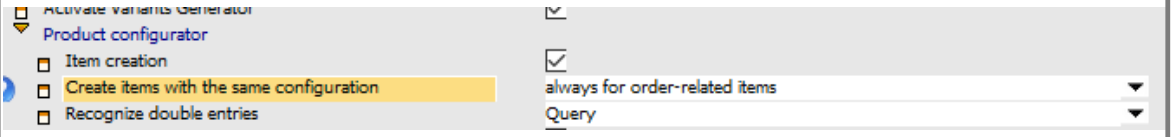
© 2026 Boyum IT Solutions A/S



The system uses the already created sub-assembly “Bicycle0001_002” for the Wheel because its exactly the same size/configuration for 22”. Only for color “blue” a new sub-assembly is created.

Create always

The behavior depends on the option "Create items with same configuration" Setting is "always for order-related items"



(in this example Bicycle001 + 002 are not deleted)

Creation of an Item for configuration with color=”black” and size=”24”

With this setting, the system ALWAYS creates a new item for all order-related items and Phantom items.

The system does not check if there is an item with the same configuration, or if the configuration parameter is defined in the sub-assembly.

Stock-related items, create only if:

- configuration parameter is defined in this item
- the item does not exist. If there is an item with the same configuration parameters, the system uses that (as example, if we had configured for color “red”, not black, an existing item will

© 2026 Boyum IT Solutions A/S

be taken, e.g. “Bicycle0001_001”).

Configuration of the generated item number

The generated item number is built up as follows:

<current item>
<counter 1: 4 items>
<counter 2: 3 items>

Example:
MyItem0001-000

First counter is for generated item. Second counter starts with 0, each sub item receives the following number.

Customization for item generation

Click on "generate item" the Windowevent "checkitem" is called. There you can manipulate the new item number with the variable `e_new_itemcode`

The result is "MyConfigItem0000-000"

```
windowevent checkitem
setvar=e_new_itemcode=MyConfigItem
end event
```

Variable "`e_counterlength2`" manipulates the second counter. "-1" turns off counting.
IMPORTANT: make certain then that a valid item number is generated.

Example setting = -1: Result = "MyConfigItem-000"

```
windowevent checkitem
setvar=e_new_itemcode=MyConfigItem
setvar=e_counterlength1=-1
end event
```

With setting 2 result is "MyConfigItem00-000"

```
windowevent checkitem
setvar=e_new_itemcode=MyConfigItem
setvar=e_counterlength1=2
end event
```

© 2026 Boyum IT Solutions A/S

Variable "e_delimiter" defines the separator. Enter a character, otherwise "_" is used.

```
windowevent checkitem
setvar=e_new_itemcode=MyConfigItem
setvar=e_counterlength1=2
setvar=e_counterlength2=2
setvar=e_delimiter=:
end event
```

Result

Main Item: MyConfigItem01:00

Sub Item: MyCinfugItem01:01

Using the event "generatesubitem" you can use the variable "ee_newitem" to define the item number for the sub-item.

```
windowevent generatesubitem
// ... set own counter
setvar=ee_newitem=<ee_newitem>-<ll_myowncounter>
end event
```

NOTE:

Item creation does not support Item version control or separate BoM.

In Calculation: If an assembly was found with a fitting configuration, the item is replaced in calculation by the configured assembly and displayed in dark green. If no fitting storage assembly was found for the configuration, it is displayed in red - with the basic item. If, then, the item is created using the configurator and the calculation is re-opened, the generated item will now be inserted and displayed in black as usual. For all former red entries, new items have been created.

Work order breakdown

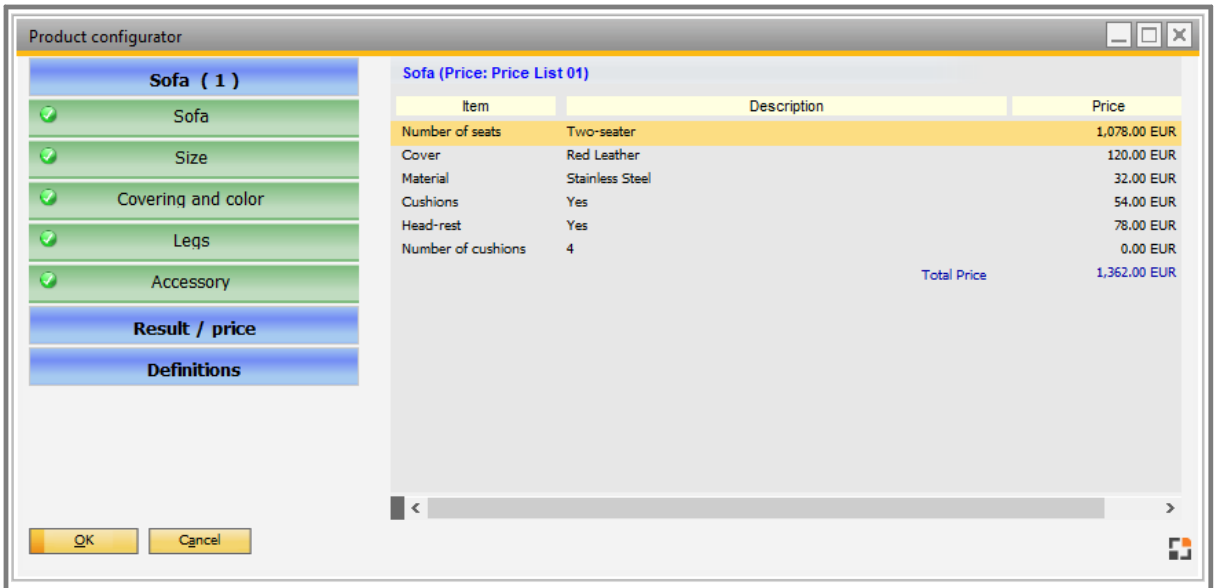
Work orders are checked for assemblies with fitting configuration. If an assembly is found, it is automatically inserted into the BoM replacing the former assembly.

8.14.1.1.2 Customer specific adjustments

Various options are available for the product configurator to make it easier to implement customer-specific adjustments. For example:

- Navigation area "Results/Prices"

© 2026 Boyum IT Solutions A/S



Window prd_links2.psr

e.g. for further use of data from this detail area after the configuration. Reading out the data is only possible at runtime of the configurator. Therefore, the windowevent "**post_result**" is available.

This is, of course, only possible if the detail area is processed during the configuration. Therefore, a Beas script for the configurator window is necessary (file prd_links2.src") and a customer specific table is created in the database for storing these data.

Example

Example for a customer specific table:

Table:
BEAS_CUSTOMER_PC_RESULT

Columns:

VARIANTE	int
LINE	int
PARAMETER	varchar(50)
DESCRIPTION	varchar(200)
PRICE	numeric(19,6)
CURRENCY	varchar(10)

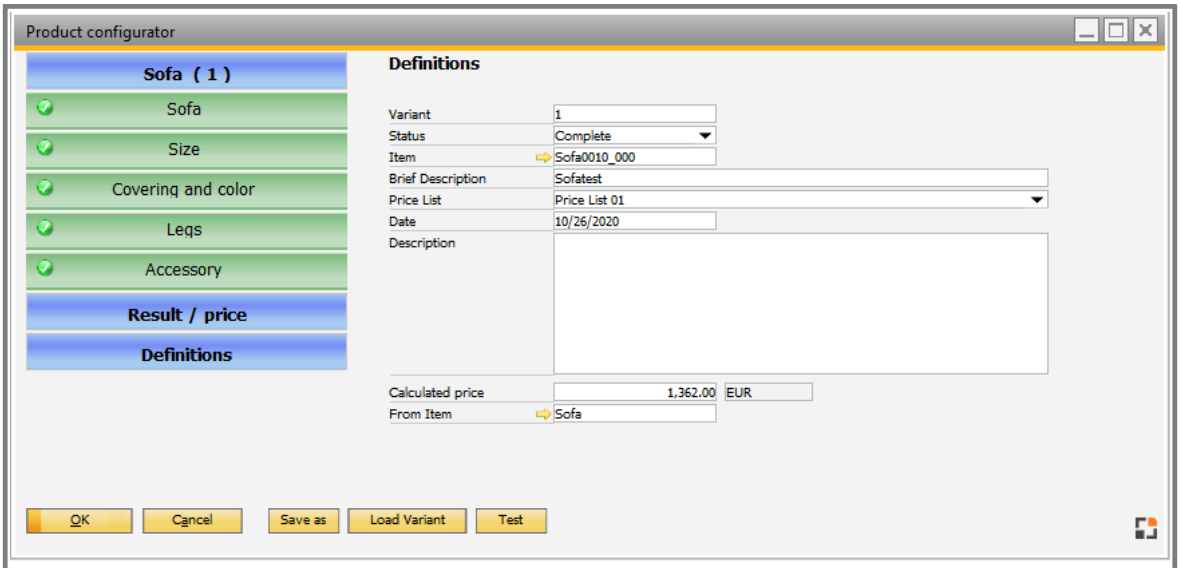
```
//*****************************************************
//* Example for fetching "result/price" data
```

© 2026 Boyum IT Solutions A/S

```
//* from detail area line by line into database
//*
//* (c) Beas GmbH
//*****************************************************
windowevent post_result
  destroy=dtw
  declare=dtw=ue_datastorevalues
  dtw=addfield=line=i=10
  dtw=addfield=paramater=c=50
  dtw=addfield=content=c=200
  dtw=addfield=price=n=20
  dtw=addfield=currency=c=10
  dtw=createbyfield


  // Read all line of detail area
  for=loop=1=<dw_2.rowcount>
    dtw=insertrow
    dtw.line.value=<loop>
    dtw.paramater.value=<dw_2.item.parameter:[loop].value>
    dtw.content.value=<dw_2.item.inhalt:[loop].value>
    setvar=v_price=<dw_2.item.preis:[loop].value,#0.00>
    dtw.price.value=<v_price,#0.00>
    dtw.currency.value=<dw_2.item.currency:[loop].value>
  next
end event


windowevent postsave
  // Called after configuration was stored in database.
  // you must have have a corresponding result table in database
  // (e.g. BEAS_CUSTOMER_PC_RESULT).
  // Read all lines of datastore and transfer to table


  // delete already existing data for actual variant number
  sql=delete from "BEAS_CUSTOMER_PC_RESULT" where "VARIANTE" = <str_parm.c_parm1,num(0)>


  //  write all lines from datastore into database
  for=loop=1=<dtw.rowcount>
    dtw.setrow=<loop>
    sql=insert into
"BEAS_CUSTOMER_PC_RESULT"("VARIANTE","LINE","PARAMETER","DESCRIPTION","PRICE","CURREN
CY")  &
        values(<str_parm.c_parm1,num(0)>,<loop,num(0)
>,<dtw.paramater.value,dbstring>,<dtw.content.value>,    &
               <dtw.price.value,num(6)>,<dtw.currency.value,dbstring>
  next


  // destroy datastore with
  destroy=dtw
end event
```

© 2026 Boyum IT Solutions A/S

- Navigation area "Definitions"



Window prd_links2.psr

Check entries:

If you want to check the entries after storing a configuration (only if all parameter values are stored in the database), this is only possible via a customer-specific script programming. This check is usually done when the Configuration is finished.

- Example

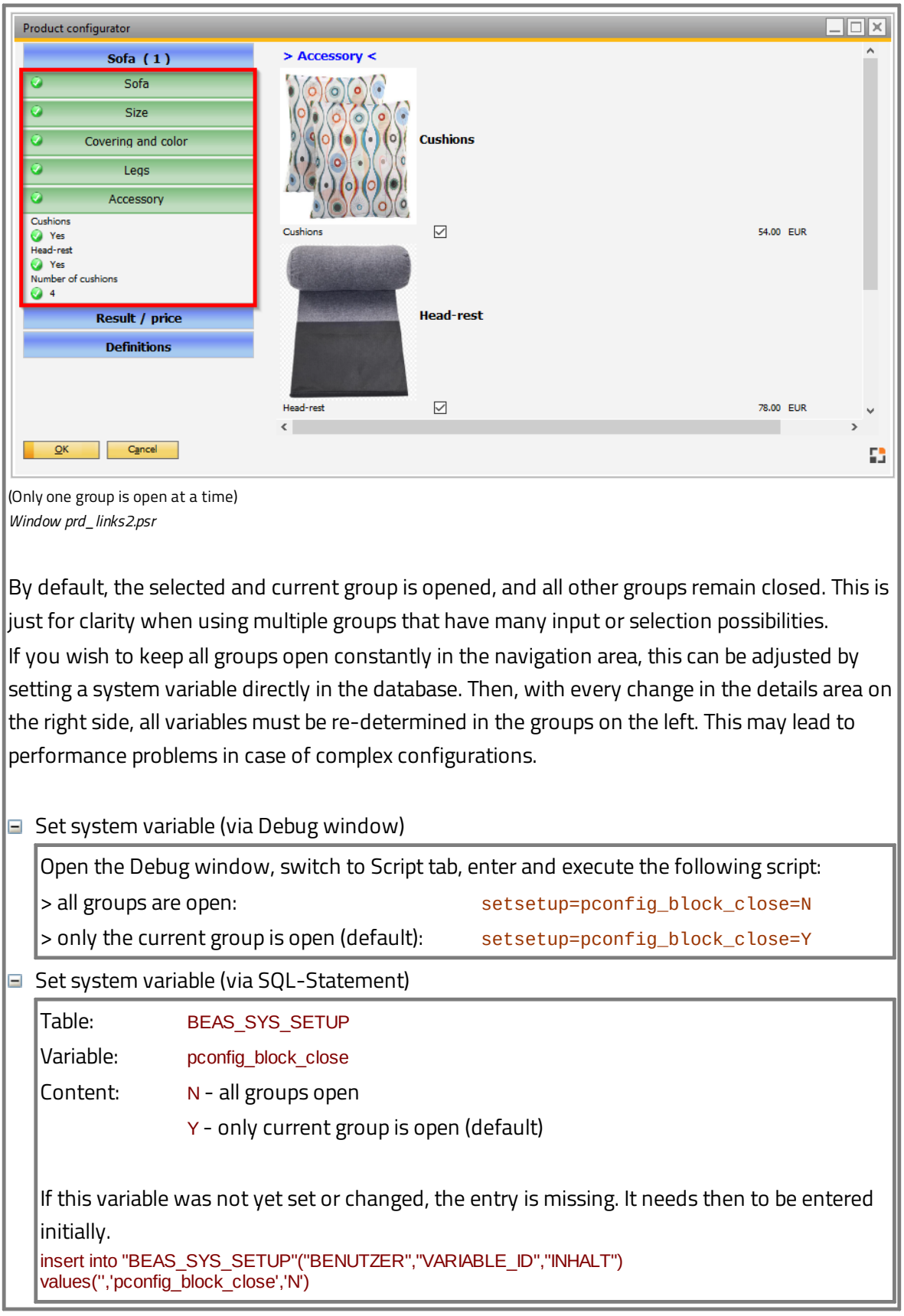
```
//*****************************************************
//* Short Example for checking parameter entries
//* after storing into database for defined variant
//*
//* (c) Boyum IT Solutions GmbH
//*****************************************************

windowevent open
global function test_parameter
 // test whether parameter 'form' was inserted
 select Coalesce("INHALT",'')  &
   from "BEAS_CAFT_VARIANTE"  &
   where "VARIANTE" = <str_parm.c_parm1,num(0)>  &
     and "Parameter" = 'FORM'
 if <wert1> = then
   message=Value for Parameter 'Form' was not inserted.
   return failure
 end if
 // re-set flag (all checks ok)
 setglobal=v_ok_button=0
end global
end event

windowevent click button_ok
```

© 2026 Boyum IT Solutions A/S

```
 // Button OK/Update pressed
 if <global.v_ok_button> n= 1 then
   // configuration stored,
   // Call function for testing parameter
   test_parameter()
 end if
 if <return> n= -1 then
   return failure
 end if
end event


windowevent postsave
 // set flag to identify, if configuration was stored
 setglobal=v_ok_button=1
end event


windowevent click button_close
 // Button 'Cancel' was pressed
 // re-set flag
 setglobal=v_ok_button=0
end event


windowevent click button_varianteladen
 // Button 'load variant' was pressed
 // re-set flag
 setglobal=v_ok_button=0
end event


windowevent click button_variantekopieren
 // Button 'Copy variant' was pressed
 // re-set flag
 setglobal=v_ok_button=0
end event
```

- Navigation area "Groups"

© 2026 Boyum IT Solutions A/S



(Only one group is open at a time)
Window prd_links2.psr

By default, the selected and current group is opened, and all other groups remain closed. This is just for clarity when using multiple groups that have many input or selection possibilities.
If you wish to keep all groups open constantly in the navigation area, this can be adjusted by setting a system variable directly in the database. Then, with every change in the details area on the right side, all variables must be re-determined in the groups on the left. This may lead to performance problems in case of complex configurations.

- Set system variable (via Debug window)

  Open the Debug window, switch to Script tab, enter and execute the following script:
  > all groups are open: `setsetup=pconfig_block_close=N`
  > only the current group is open (default): `setsetup=pconfig_block_close=Y`

- Set system variable (via SQL-Statement)

  Table: BEAS_SYS_SETUP
  Variable: pconfig_block_close
  Content: N - all groups open
  Y - only current group is open (default)

  If this variable was not yet set or changed, the entry is missing. It needs then to be entered initially.

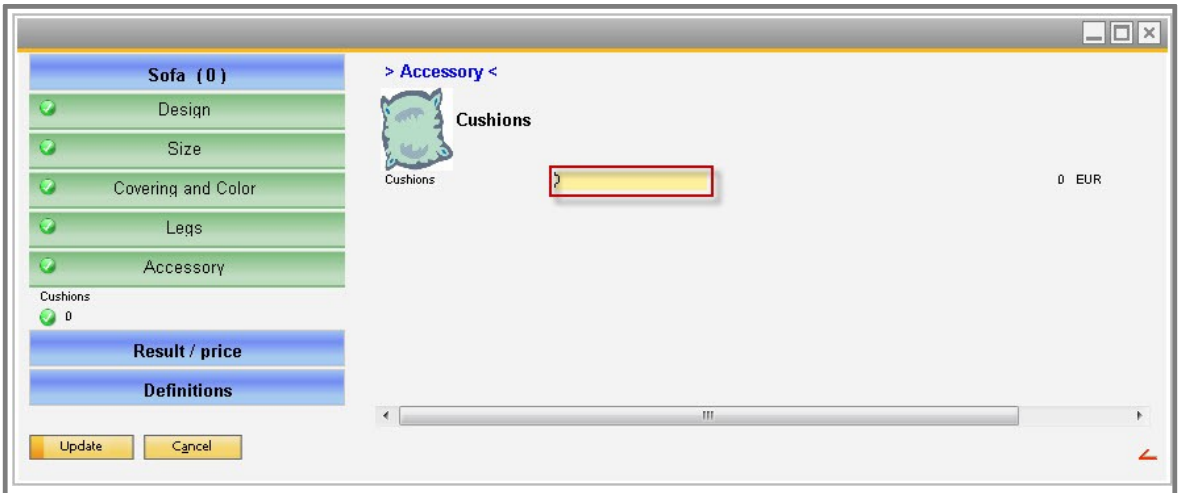
```
insert into "BEAS_SYS_SETUP"("BENUTZER","VARIABLE_ID","INHALT")
values('','pconfig_block_close','N')
```

© 2026 Boyum IT Solutions A/S

If the variable is already in use, you only need to change it:

```
update "BEAS_SYS_SETUP" set "INHALT" = 'Y'  where "VARIABLE_ID" = 'pconfig_block_close'
```

- Details area



Window prd_links2.psr

For changes in the details area (right side of the configurator window) the tabulator can be used to jump to the next field. The cursor is placed at the beginning of the field. In an already filled box, the cursor is positioned before the entry.

If you do not need this functionality, it can be changed via BeasScript to "Auto-Select". Then, if the cursor jumps to the next input field, and if there is already a text, it will be selected/marked.

For this purpose, a script file "prd_links2.src" is required for the product configurator window.

- Script

```
windowevent postopen
   if <dw_2.dataobject> = program\prd_rechts.psr then
       dw_2.modify=inhalt.edit.autoselect=yes
   end if
end event
```

- Check for existing configurations

Before saving a new configuration, based on a parameter string (a string that consists of all the parameters and set-objects and of their assigned content) the program checks whether this configuration already exists. If yes, the existing configuration is loaded. Otherwise, the configuration is created and saved under a new variant number.

© 2026 Boyum IT Solutions A/S

As an additional option, you can also incorporate the short name into the check. Thus, it would be possible to store two configurations with equal but different short names (with different version numbers). For this purpose, an entry must be made in the Beas system table.

Open the Debug window, switch to Script tab, enter and execute the following script:

> normal function (Standard):

```
setsetup=pconfig_check_desc=N
```

> Check for existing configurations via parameter string **and** short description:

```
setsetup=pconfig_check_desc=Y
```

- Get Values when calling the configurator

Should values from the current line or also from the "header" of the Sales Order or Quotation of the SAP form needed for the Beas configurator, this can be done with a simple scripting.

For this, the configurator window requires a stored Beas script in the file "**prd_links2.src**".

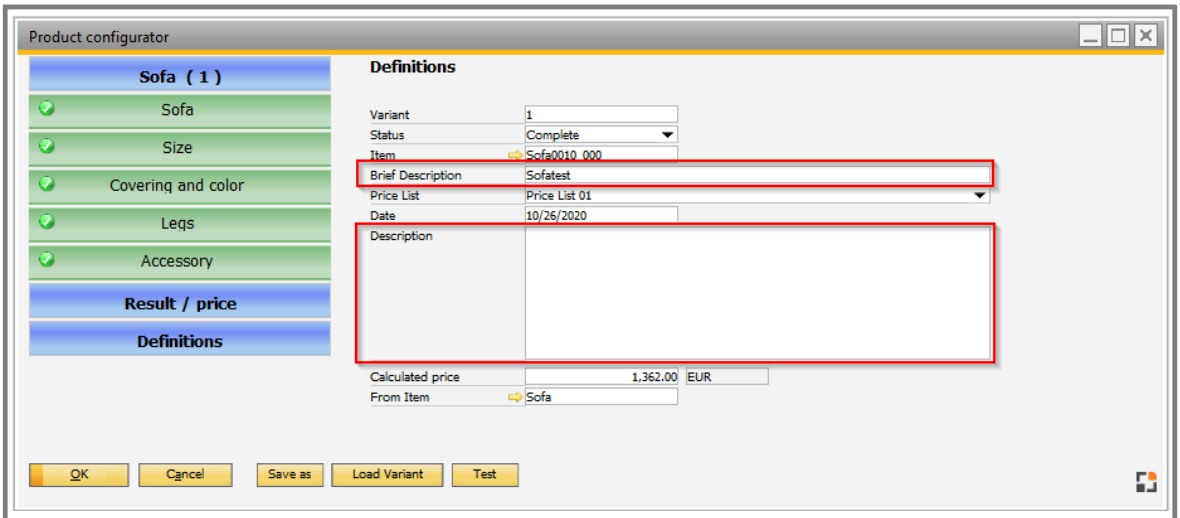
***Example*:**

```
windowevent preopen
  if <parent:sys_formtypeex> n= 139 or <parent:sys_formtypeex> n= 149 then
        // only if Sales Order or Quotation
        // get Cardcode from SAP form
        setvar=e_cardcode=<parent:item 4>
        // get Product-ID
        setvar=e_product=<parent:item 38=col=U_produkt>
  end if
end event
```

With this definition, the variables **[e_cardcode]** and **[e_product]** are known after calling the product configurator and can be used in the coding.

- Configuration description

© 2026 Boyum IT Solutions A/S



Window prd_links2.psr

It is not reasonable to fill the field "Description" with very long information if the configuration is complex (object type "Definitions", tab "Brief Description" and "Description"). The field "Brief Description" is, as the field says, a short name for the currently configured item (max. 255 characters).

With a database query you get all result information of the respective configuration/variant:

Example (MS-SQL)

```
select  bop."PARAMETER"+'' as parameter, bop."BEZEICHNUNG"+'' as description_coding,
        bcv."BEZEICHNUNG"+'' as description, substring(bcv."INHALT",1,1024)+'' as "content"
from "BEAS_OITM_PRODUKTKONFIGURATOR" bop,"BEAS_CAFT_VARIANTE" bcv
where substring(bop."PARAMETER",1,50) = bcv."PARAMETER"
and bop."ItemCode" = 'SE0001'
and bop."TYP" = 0
and bcv."VARIANTE" = 43
```

parameter	description_coding	description	content
numberofseats	Number of Seats	2	2
cover	Cover	SE0070	SE0070
legs	Material	SE0090	SE0090
cushions	Cushions	1	1
headrest	Head-Rest	Y	Y

First, it should be clarified when the data for the respective configuration is needed at all:

- *after leaving the product configurator*

Example file

```
// ****************************************************************
// customer specific development
//
```

© 2026 Boyum IT Solutions A/S

```
// Example: get data of a configurated item after closing
//
// (c) Boyum IT Solutions GmbH
// ************************************************************
windowevent close


 destroy=dtw
 declare=dtw=ue_datastorevalues
 dtw=select bop."Parameter"||'' as "Parameter",   &
          bop."BEZEICHNUNG"||'' as Description_coding,  &
          bcv."BEZEICHNUNG"||'' as "Description",  &
          substring(bcv."INHALT",1,1024)||'' as "Content" &
      from "BEAS_OITM_PRODUKTKONFIGURATOR" bop,"BEAS_CAFT_VARIANTE" bcv  &
      where substring(bop."Parameter",1,50) = bcv."Parameter"  &
      and bop."ItemCode" = <str_parm.s_parm1,dbstring>  &
      and bop."TYP" = 0  &
      and bcv."VARIANTE" = <str_parm.c_parm1,num(0)>


 // put now your coding to process the data appropriately  (with example)
 for loop=1 to <dtw.rowcount>
  setvar=v_param=<dtw.parameter.value>
  setvar=v_desc_code=<dtw.description_coding.value>
  setvar=v_desc=<dtw.description.value>
  setvar=v_content=<dtw.content.value>


  // your coding


 next


 // clear datastore
 destroy=dtw
 return success
end event
```

- *For a report that is called up from a quotation line or a sales order, for example*

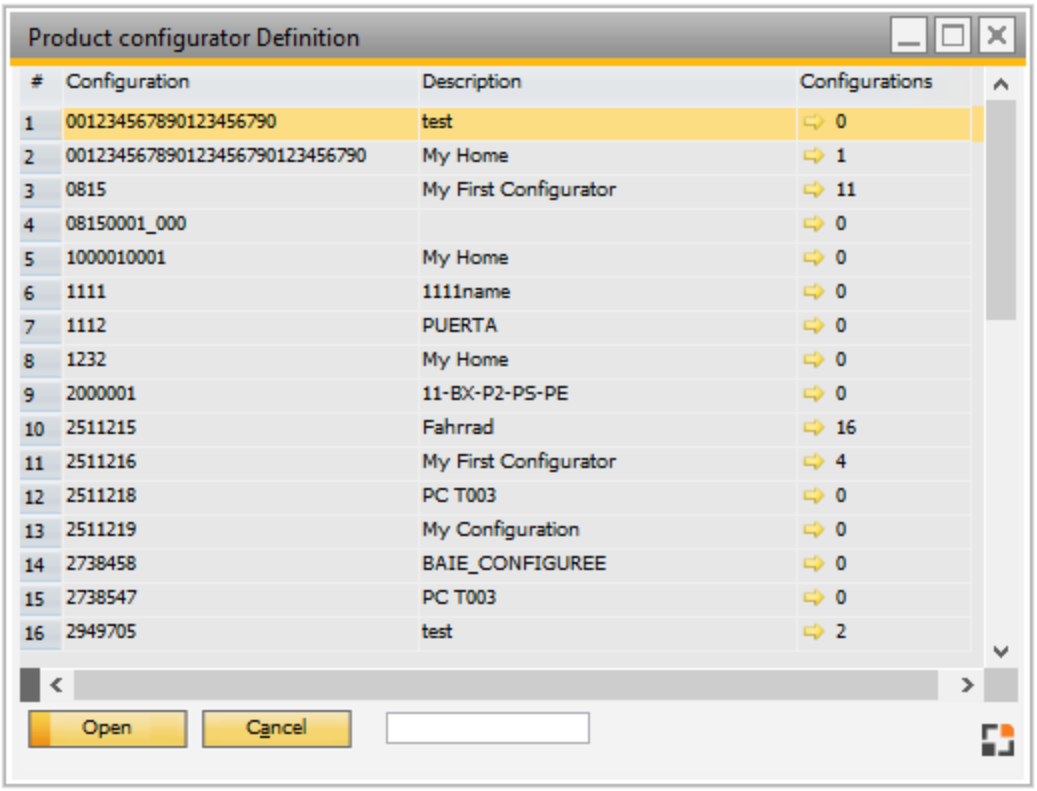
(This could be done in a similar way as for leaving the product configurator).

8.14.2 Product configurator definition

From this window you can create new or edit existing product configurations.

PATH: Production > Product Configurator > Product Configurator Definition

© 2026 Boyum IT Solutions A/S



Window artikel_produktkonfigurator_browse

Defintion list (Beas 9.3)

Product Configurator and WEB Configurator - Introduction

Field Descriptions

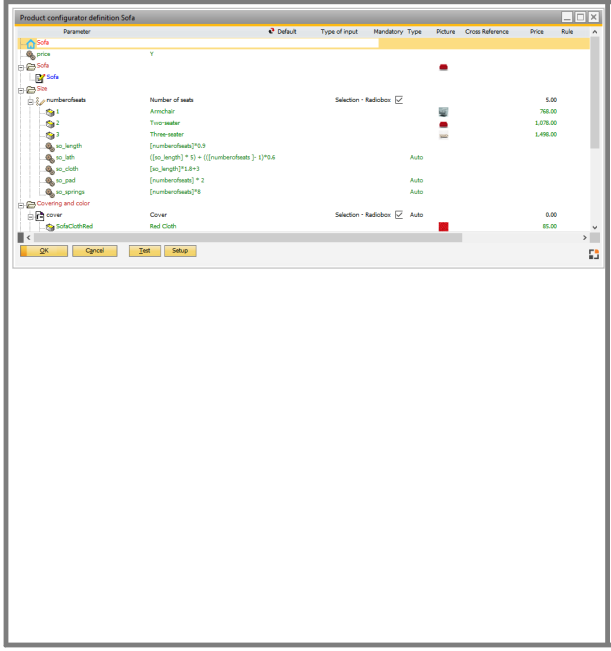
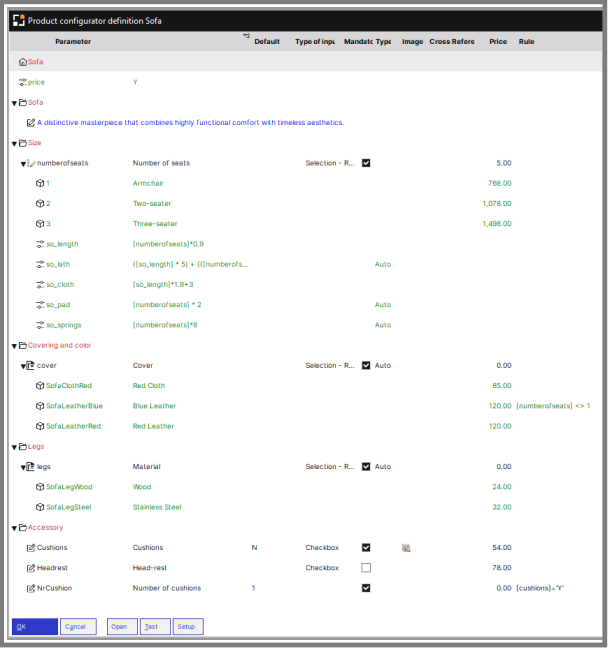
Functions	Description
Configuration	Nr. of configuration or variant
Description	Descriptive name of the configuration
Configurations	This field displays the number of existing configurations for the item. Click on the yellow arrow to open the list of these configurations.
Functions	
Open	Edit the selected configurator definition
Add	Create a new configurator definition
Delete	Delete the selected configurator definition
New configuration	Click this button to create a new Variant.
Search field	Filtering field

© 2026 Boyum IT Solutions A/S

8.14.2.1 Configuration structure

The configuration structure is used to create the visual interface of the configurator. Texts and images are added, selection options defined, and formulas and variables are stored here. These variables and parameters can be accessed when creating a Bill of materials or routing (at the time of a calculation or when creating a work order).

To open the configuration structure, go to **Production > Product Configurator > Product Configurator definition**. Here you can find a list of existing configurations and by clicking on **Open**, you can add successive Configuration objects (by right-clicking) or create new configurations.

Traditional style	Boyum Style
	

Window artikel_produktkonfigurator.psr

WYSWIG - you can see what you change

Header
Block
Parameter
Selection
Set Object
Script Syntax

© 2026 Boyum IT Solutions A/S

8.14.2.1.1 Object-Type "Header"

Basic definitions such as usage of prices, item designation, miscellaneous information, automatic generation of the configured variant description and data transfer to SAP Business One sales order / quotation can be set up and stored by clicking the header icon (/) in the 1st row of the product configurators with a double-click. Once provided, the text is highlighted in dark gray and bold font in the navigation area. The header should possibly be the item number.

Follow Tabs available

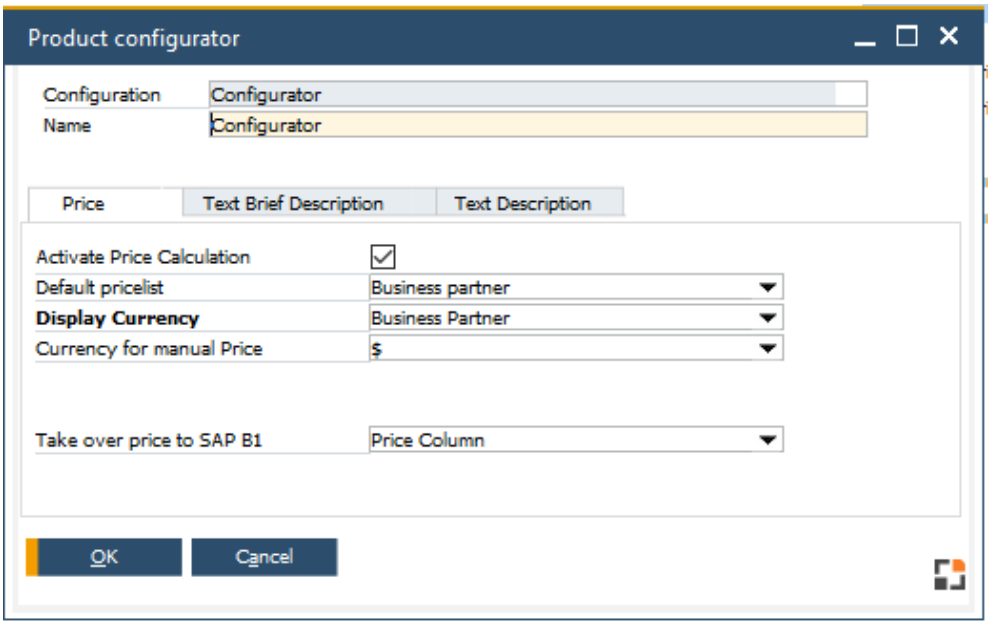
Price

Text Brief Description

Text Description

Tab Price

The following fields and properties are available:

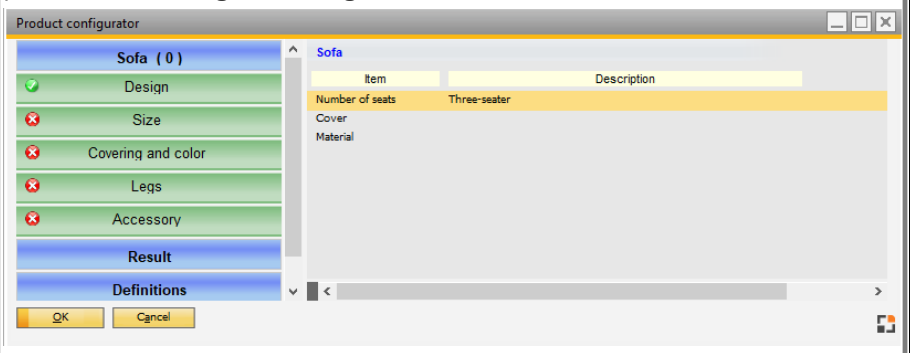
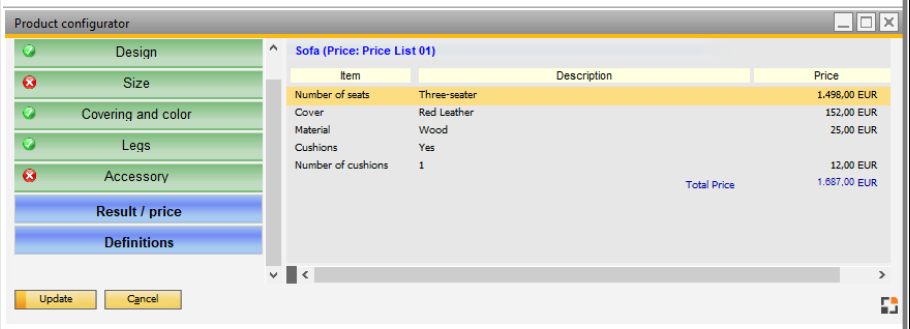


Window artikel_produktkonfigurator_global.psr

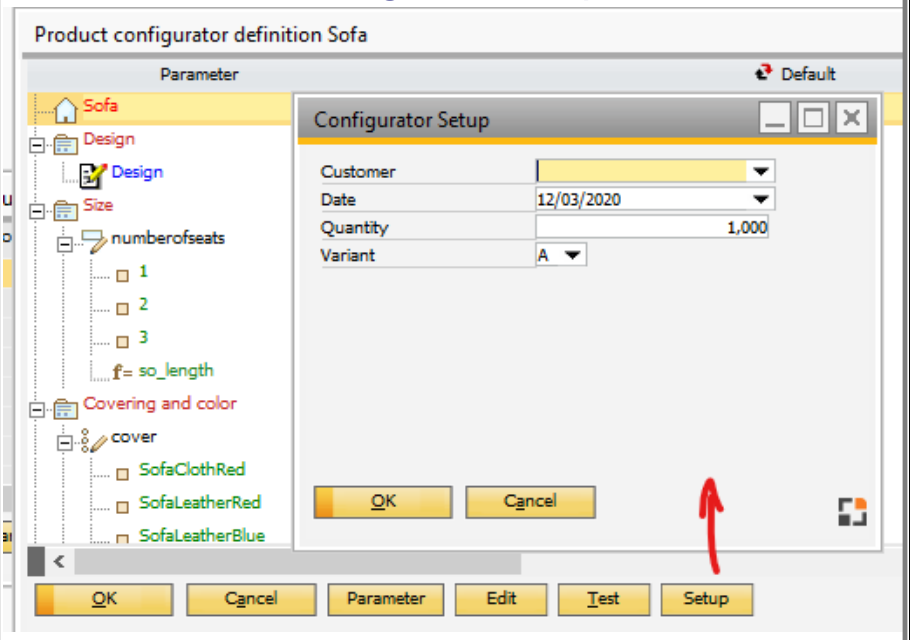
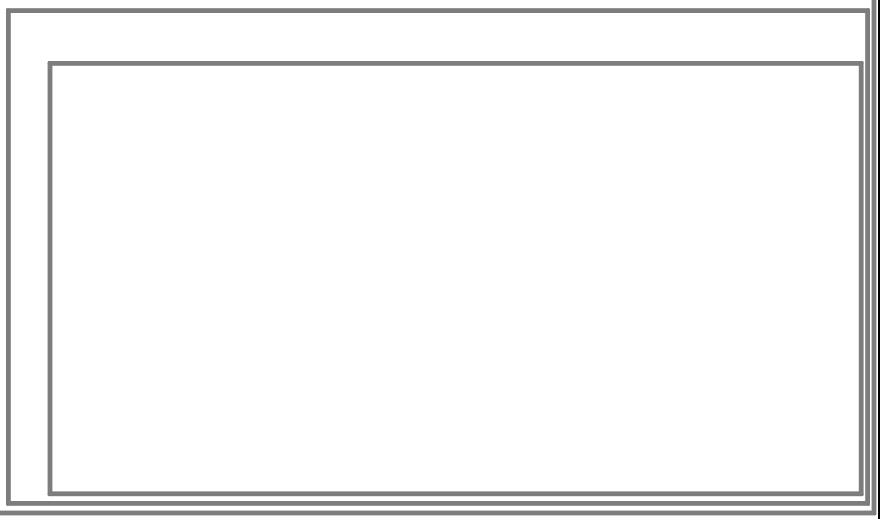
How to link the definitions of the Price, Text Brief Description and Text Description tabs in a Sales Order:

Field descriptions

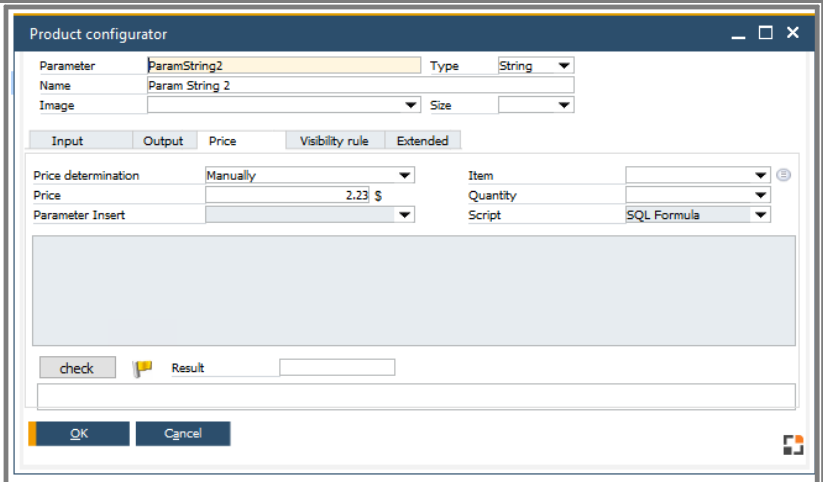
© 2026 Boyum IT Solutions A/S

Field	Description
Name	Item name (item number) After calling the Configurator, this name is displayed at the top in the navigation area on the left.
Activate Price Calculation	Activate the price calculation inside the Configurator **Disable:** In the configurator you cannot see any price. It is only a configurator of the product. The price calculation can be created with Precalculation. In Sales Order / Sales Quotation you have the possibility to calculate the price after creating the configuration.  **Enable:** Enable the internal price calculation and display this in configurator - Area "Result"  Note: For using Price calculation: - Define default price list - Activate "Use BP price list", if needed

© 2026 Boyum IT Solutions A/S

Field	Description
	Testing: The Configurator is called from Sales order or Quotation. Here all information for price calculation are available. For testing you must define the Date, Quantity, Customer and optional Variant You can define this in the **Configurator > "Setup" button**:  In all Objects you can define the Price calculation in tab "Price" See Tab Price 

© 2026 Boyum IT Solutions A/S

Field	Description
	 *artikel_produktkonfigurator_detail*

Field	Description
Price determination	Define the price

Value	Description
Formula	Create a formula to calculate the price
Manually	Insert the price manually in the Price field
Price List	Use price from a Price List. - Use default price list, defined in Calculation Header. - Use a special price list of a customer if it is selected from "Default price list" drop-down in the Calculation Header. (previously "Use BP price list" radio box). Supports all price list rules, but unit groups are not supported.

© 2026 Boyum IT Solutions A/S

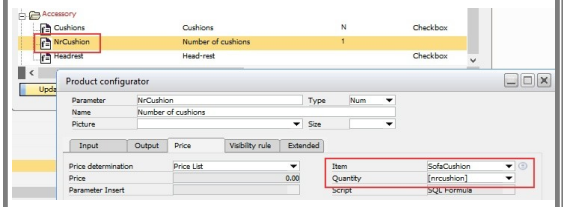
Field	Description

Field	Description

Value	Description
	If you insert [cprice] in a formula, you see the price determination result by Price List in this parameter.
No	Price determination is not activated for this entry.

Field	Description
Price	Use the entered price if price determination is set to Manually. The logo of the actual currency (for example "$" or "€") is displayed right of the field. Prices are rounded according to the value defined in **SAP Business One > General Settings > Display > Decimal Places (0..6) > Prices**. Up to 6 decimals can be defined.
Item	Define the item to determine the price from a price list Choose the item directly or insert a parameter. For example for the following sofa cushions, there are two parameters: - Cushions Yes/No: whether cushions are needed - Number of quantity: how many cushions are needed In Cushion the price determination is set to

© 2026 Boyum IT Solutions A/S

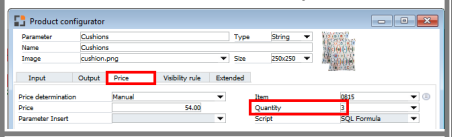
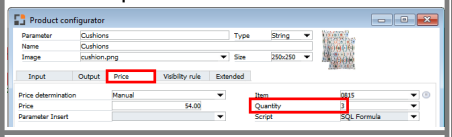
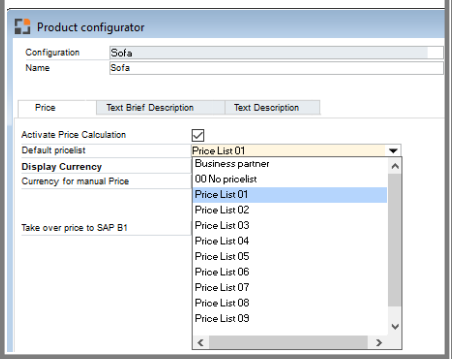
Field	Description
	Field / **Description**
	No, so it does not affect the price. In Number of Quantity we define the price by a price list. Price comes from price list from "SofaCushion" item that was added to the Item field. Quantity comes from the current "Number of Cushions" parameter (nrcushion), so the [nrcushion] parameter is chosen in the Quantity field.  Result: Beas searches in the price list for the sofa cushion item. Total Quantity = Quantity from Sales Order / Quotation * Quantity from [nrcushion] Result = Price from Price List * Quantity from [nrcushion] Use the Test button in the product configurator definition list to test the setup. Note: **Volume discount** can be applied for the item (parameter), but not the parent item.

© 2026 Boyum IT Solutions A/S

Field	Description

Field	Description
	Limitation: The price value CurrentEntry is not supported in WebApp Terminal 2.1
Quantity	Define the quantity for calculation Insert a number manually or use a parameter. Two quantities are calculated: Required quantity for 1 product (cquantity) Required total quantity (calculated quantity * quantity from sales order = ctotalquantity) For an example, ***see*** Item. *beas 9.3 PL 2*
Script / Formula	Calculate the price using a formula If the price is calculated by a formula (Price determination is set to Formula), insert the formula. The Parameter Insert field provides a shortcut to all available parameters. If the "[price]" field is in the formula, Beas determines the price using the price list. ***See*** Script Syntax The following standard parameters are available. Note: Not supported in WEB Configurator.

© 2026 Boyum IT Solutions A/S

Field	Description
	Field / **Description**
	Parameter Name / **Description**
	`cprice` — Price from a price list (only for the Price calculation field)
	`cpriceq` — Calculated quantity for this item (tab Price - field Quantity) 
	`cpricet` — Calculated quantity (= tab Price - field Quantity) * Quantity from sales order or quotation 
	`cpricel` — Price list defined in Configuration Header 
	`current` — Current user
	`cardcod` — Business partner from the sales order or quotation
	`cquanti` — Quantity from the sales order or quotation
	`cdocdat` — Date from the sales order in

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Parameter Name</th><th>Description</th></tr>
<tr><td></td><td>"yyyymmdd" format, example 20220503 for the date 2022/05/03</td></tr>
<tr><td>cshortv</td><td>Short variant A-Z from sales order or quotation</td></tr>
</table>
</td></tr>
<tr><td>The check button</td><td>Check for syntax errors in the entered script</td></tr>
<tr><td>Flag</td><td> – The rule is error free
 – Warning (default)
 – Error in rule</td></tr>
<tr><td>Result</td><td>Shows the result of the evaluated formula. The result must be a number.
Attention: Price determination by price list is not working here, [cprice] is always 0.</td></tr>
<tr><td>Evaluation of the rule</td><td>Shows the evaluated formula with a status message.</td></tr>
</table>
Copy results of Product Configuration in a Sales Order
</td></tr>
<tr><td>Use total BP discount</td><td>IMPORTANT: This field is not available from version 2021.06 as the total discount is applied by SAP Business One for the total of the document.
The defined total discount from business partner master data is considered.
(Selection only possible for "use prices" – NOT for "use BP price list").</td></tr>
<tr><td>Default price list</td><td>Select from a range of default price lists, including ones in the system and business partner price lists. This price list can be changed at any time in the blue "definition" group in the navigation area of the configurator.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Display currency</td><td>
<table>
<tr><th>Currency type</th><th>Description</th></tr>
<tr><td>Local</td><td>The currency is displayed in the configurator (e.g. "EUR") as defined in SAP Business One.
(Selection only possible for "use prices").</td></tr>
<tr><td>System</td><td>The currency is displayed in the configurator (e.g. "EUR") as defined in SAP Business One.
(Selection only possible for "use prices"). (default)</td></tr>
<tr><td>Business partner</td><td>The currency defined for the selected business partner.</td></tr>
</table>
</td></tr>
<tr><td>Currency for manual price</td><td>Modify currency according to any currency supported by the customer.
Note: This field is to identify the currency of the prices defined in the parameter as manual or calculated by formulas. When the field is modified, fix prices are not converted, and those prices are set in the new currency. Default value is Local currency.</td></tr>
<tr><td>Take over price to SAP Business One</td><td>After finishing the configuration, the determined price of the current variant is transferred to the SAP Business One form.
Values
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>No</td><td>No action</td></tr>
<tr><td>Field Price</td><td>write the calculated price back in sales document in field "Unit price"

Limitation:
This field must be visible and editable in sales documents.
Beas does not write back the currency.
beas 9.3 PL 3</td></tr>
<tr><td>Script</td><td>Create your own script to write information back to the SAP Document.

(An additional script in the project folder is needed)
Script-for data transfer</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description

Value	Description

To transfer the price or description from the configurator into the SAP Business One form "Customer order"or "Quotation" a script file is used.
This file needs to be created.

Adjust only red lines in order to ensure a correct function.
The created files must be stored in the Beas Project-folder.

Script file

Name of the file: "**product_configurator.src**". The following structure is required:

```
//*****************************************
//* beas product configurator                *
//*                                          *
//* Interface definitions for return value   *
//*                                          *
//* (c) Boyum IT Solutions GmbH              *
//*****************************************
//
//*** initialization of the interface ***
function pk_init
  // please, do not change this function part !!!!
  setvar=v_pk_init=Y
end
//
//*** transfer the TOTAL PRICE from the configurator      ***
//*** into column 14 of actual line (changeable)          ***
//*** to SAP B1 form SALES ORDER or QUOTATION              ***
function write_price
   // the PRICE is in the beas variable "str_parm.c_parm4"
   parent=item=38=col=14=value=<str_parm.c_parm4>
end
//
//*** transfer the BRIEF DESCRIPTION from the configurator ***
//*** into column 163 of actual line (changeable)         ***
//*** to SAP B1 form SALES ORDER or QUOTATION              ***
function write_b_descr
   // BRIEF DESCRIPTION is in the beas variable
"str_parm.s_parm4"
   parent=item=38=col=163=string=<str_parm.s_parm4>
end
//
//*** transfer the DESCRIPTION from the configurator      ***
//*** into column U_item_descr of actual line             ***
```

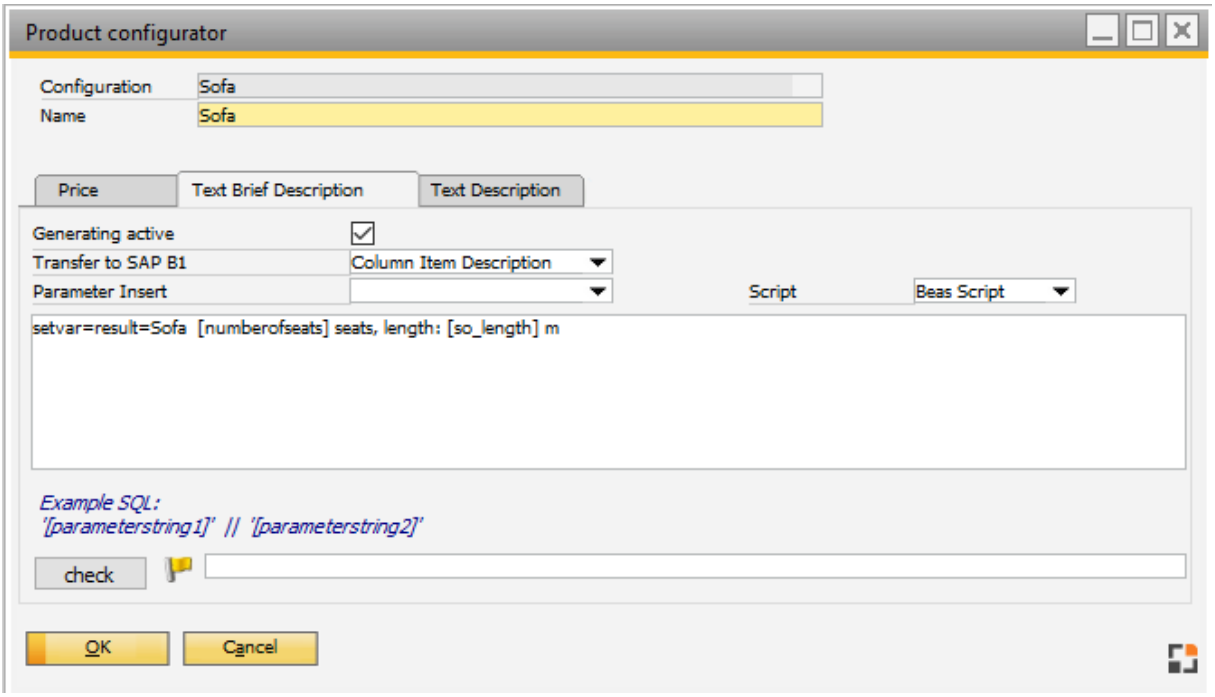
© 2026 Boyum IT Solutions A/S

Field	Description
	Value / **Description**

	//*** (changeable) ***
	 //*** to SAP B1 form SALES ORDER or QUOTATION ***
	 function write_descr
	 // the DESCRIPTION is in the beas variable "str_parm.s_parm5"
	 parent=item=38=col=U_item_descr=string=<str_parm.s_parm5>
	 end
	
	 Explanation of assignments:
	
	 parent=item=38=col=14=value=<str_parm.c_parm4>
	 <str_parm.c_parm4> : Parameter with the current transfer value (in this case the price)
	 col=14 : Field 14 (single price) in SAP Business One-form
	 col=U_item_descr : UD-Field in SAP Business One-form
	
	 (Selection only possible for "use prices")

© 2026 Boyum IT Solutions A/S

8.14.2.1.1.1 Header-BriefDescription



Window artikel_produktkonfigurator_global.psr

Field	Meaning
Transfer to SAP Business One	Transfer a short designation of the detail area in the "definition" part of the configurator to the SAP Business One form. - if you made a change in configuration window - if the document line is not closed You can choose:

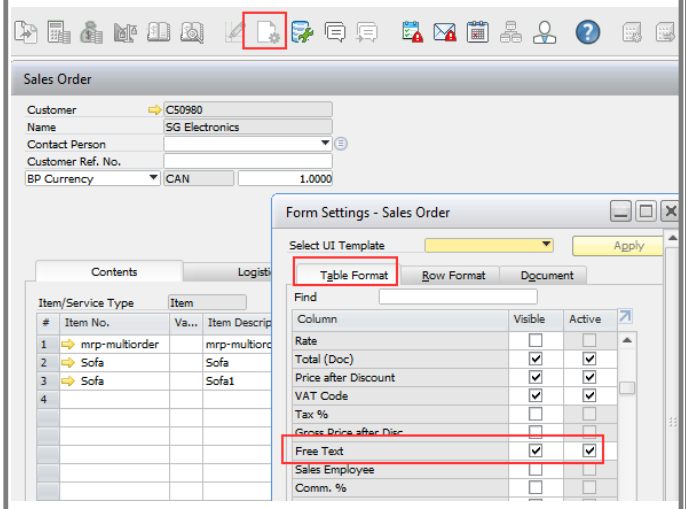
Value	Description
No	No Action
Column Item Description	only in Tab "Text Brief Description" Write the Brief description back in current document line in field Item Description Information:

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Meaning</th></tr>
<tr><td></td><td>
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td></td><td>in SAP it is not possible to change this field directly.
Beas uses the "sendkey" function. For Limitations see SAP SDK documentation - sendkey function

This field must be visible and editable.
beas 9.3 PL 2</td></tr>
<tr><td>Column Free Text</td><td>Only in Tab "Text Description"

write the Text description back in current document line in field "Free Text"

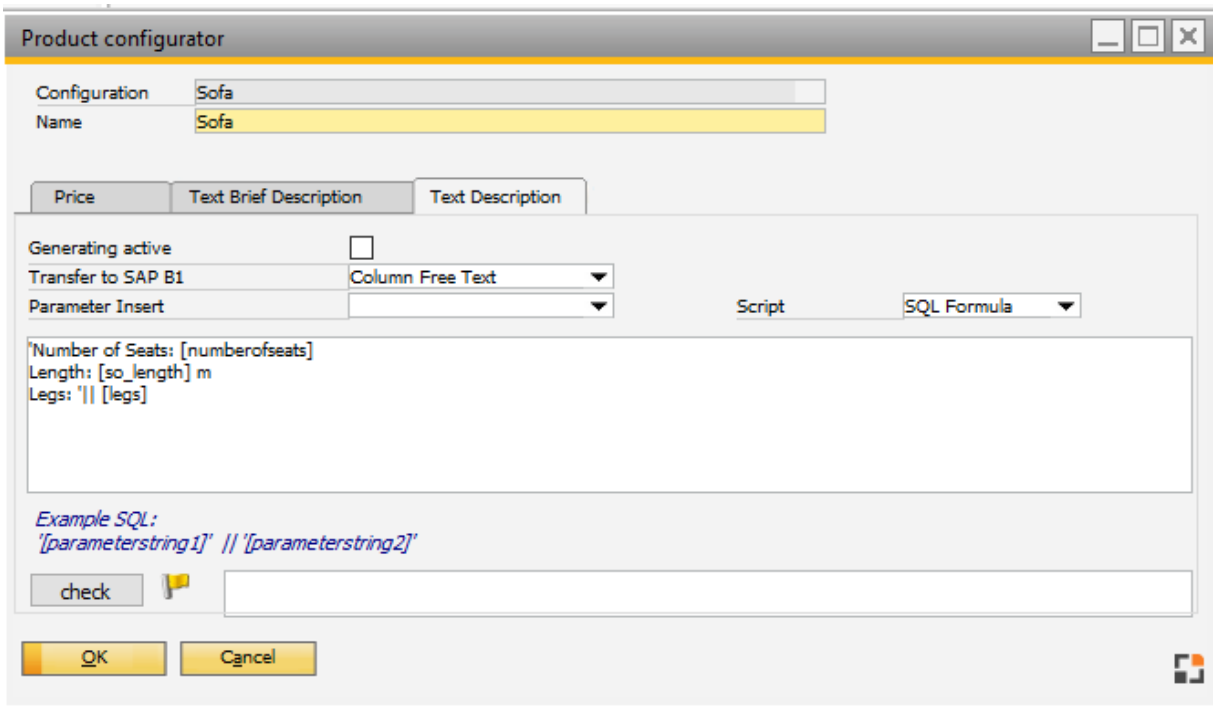
Information:
This field must be visible and editable.
Activate this field in document form settings – Table Format
 

beas 9.3 PL 2</td></tr>
<tr><td>Script</td><td>(An additional script in project folder is needed)
Script-for data transfer</td></tr>
</table>
</td></tr>
<tr><td>Generating active</td><td>The description shall be created from existing parameters, Set-Objects etc. as defined in the field below.
If a work order is to be created with this configuration, Beas uses the created</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Meaning
	Brief description from this configuration. ***See*** Work order position.
Parameter Insert	Display all already defined parameters and set-objects. By this the description text for the field below can be generated easier.
Script	Setup used syntax to define text descriptions (SQL-Formula, JavaScript-Formula, Java-Script, VBScript Formula, VBScript, DW Script, beas Script) ***See*** Script Syntax.
"Check" Button	Check for syntax errors in the entered string to generate the description.
Entry field	The links to parameters are entered in this field. All configurations and set-objects can be used. ***See*** Script Syntax.

8.14.2.1.1.2 Header-Text Description



Field	Meaning
Transfer to SAP Business One	Transfer a short designation of the detail area in the "definition" part of the configurator to the SAP Business One form.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Meaning</th></tr>
<tr><td></td><td>
- if you made a change in configuration window
- if the document line is not closed

You can choose:
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>No</td><td>No Action</td></tr>
<tr><td>Column Item Description</td><td>only in Tab "Text Brief Description"

Write the Brief description back in current document line in field Item Description

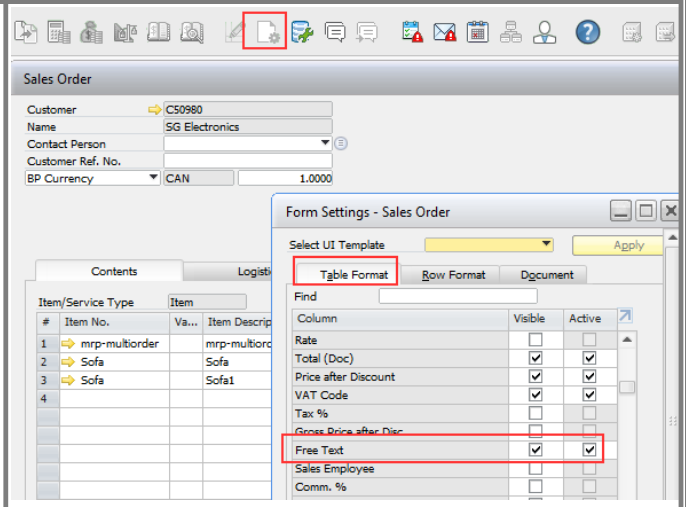
Information:
in SAP it is not possible to change this field directly.
Beas uses the "sendkey" function. For Limitations see SAP SDK documentation - sendkey function

This field must be visible and editable.
beas 9.3 PL 2</td></tr>
<tr><td>Column Free Text</td><td>Only in Tab "Text Description"

write the Text description back in current document line in field "Free Text"

Information:
This field must be visible and editable.
Activate this field in document form settings – Table Format</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

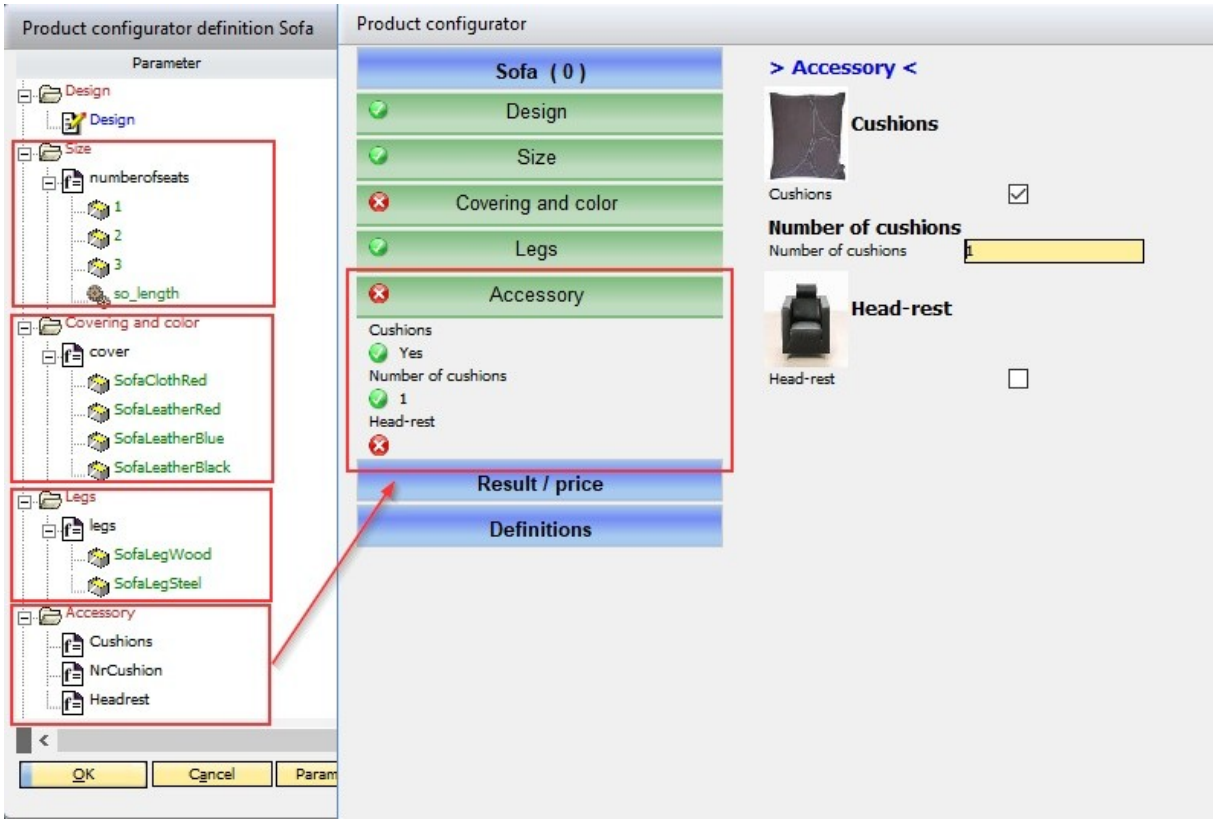
<table>
<tr><th>Field</th><th>Meaning</th></tr>
<tr><td></td><td>
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td></td><td> 

beas 9.3 PL 2</td></tr>
<tr><td>Script</td><td>(An additional script in project folder is needed)
Script-for data transfer</td></tr>
</table>
</td></tr>
<tr><td>Generating active</td><td>The description shall be created from existing parameters, Set-Objects etc. as defined in the field below.
If a work order is to be created with this configuration, Beas uses the created Brief description from this configuration. See Work order position.</td></tr>
<tr><td>Parameter Insert</td><td>Display all already defined parameters and set-objects. By this the description text for the field below can be generated easier.</td></tr>
<tr><td>Script</td><td>Setup used syntax to define text descriptions
(SQL-Formula, JavaScript-Formula, Java-Script, VBScript Formula, VBScript, DW Script, beas Script)
See Script Syntax.</td></tr>
<tr><td>"Check" Button</td><td>Check for syntax errors in the entered string to generate the description.</td></tr>
<tr><td>Entry field</td><td>The links to parameters are entered in this field. All configurations and set-objects can be used.
See Script Syntax.</td></tr>
</table>

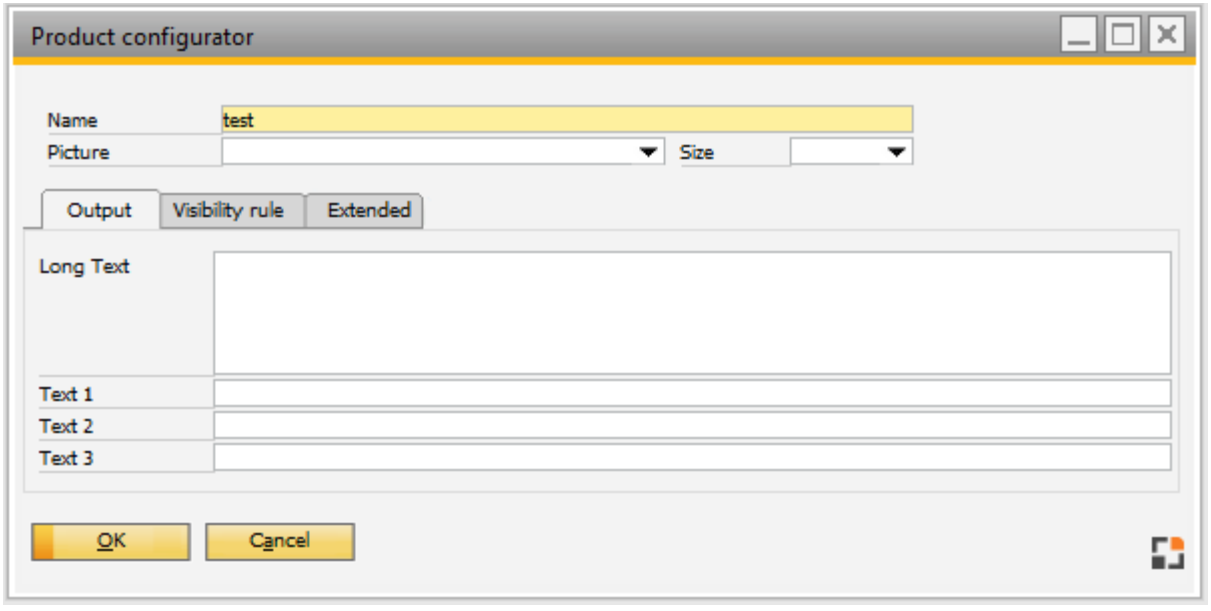
© 2026 Boyum IT Solutions A/S

8.14.2.1.2 Object-Type "Block"

A block configuration can be used for grouping certain elements. Blocks are represented by a the icon (/) in the configuration structure.



The following fields and properties are available in a block definition.



© 2026 Boyum IT Solutions A/S

artikel_produktkonfigurator_detail

Field	Description
Name	Item name (item number) After calling the configurator, this name is displayed at the top in the navigation area on the left.
Picture / Size	Select picture A picture to be displayed at this group. When the user selects the group, the picture is displayed. To select a picture, click on the drop-down arrow in the field and a screen opens to browse for the required image. Beas saves the image in the SAP Picture share folder. The image display size can also be defined. The size parameter is not supported fin the WEB version and in the WEB Configurator the image is always the original size. The following sizes are supported in the internal view: 250 x 250 450 x 450 650 x 650 300 x 250 500 x 450 700 x 650

© 2026 Boyum IT Solutions A/S

Field	Description
	> Test Picture < 250x250 250x250 450x450 450x450 650x640 650x640 300x250 300x250 500x450 500x450 700x650 700x650

© 2026 Boyum IT Solutions A/S

- Output tab

Field	Description
Long text	Field for additional text
Text 1	Field for additional text
Text 2	Field for additional text
Text 3	Field for additional text

- Visible Rule tab

Some rules can be defined to display the block with specific values or parameters. The rules determine whether a configuration option is presented to the operator, based on previous configuration selection. Therefore, it is possible to restrict options. The rule is created in SQL syntax.

Field	Description
Parameter Insert	Parameters and Set Objects that are already defined, are displayed in a selection list. They can be used to create a rule.
Script	The language syntax that the rule is written in. Available options are: • DW Script • SQL formula • JavaScript formula • Java script • VBScript formula • VBScript ***See*** Script Syntax
Input field	Insert the visible rule for the object. All defined parameters and Set-Objects can be used in the configuration. ***Example:*** [a] = 5 [color] = red [a] > 5 or [b] = 3 To have a parameter not visible (maybe for special cases): 1 = 2 ***see*** Script Syntax

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: When using the SQL formula, database accesses may reduce the performance of the configurator window.
The **check** button	Check for syntax errors in the entered script.
Flag	– The rule is error free – Warning (default) – Error in rule
Result line	Shows the result of the evaluated rule.
Evaluation of the rule	Shows the evaluated rule with status message.

Tab Extended

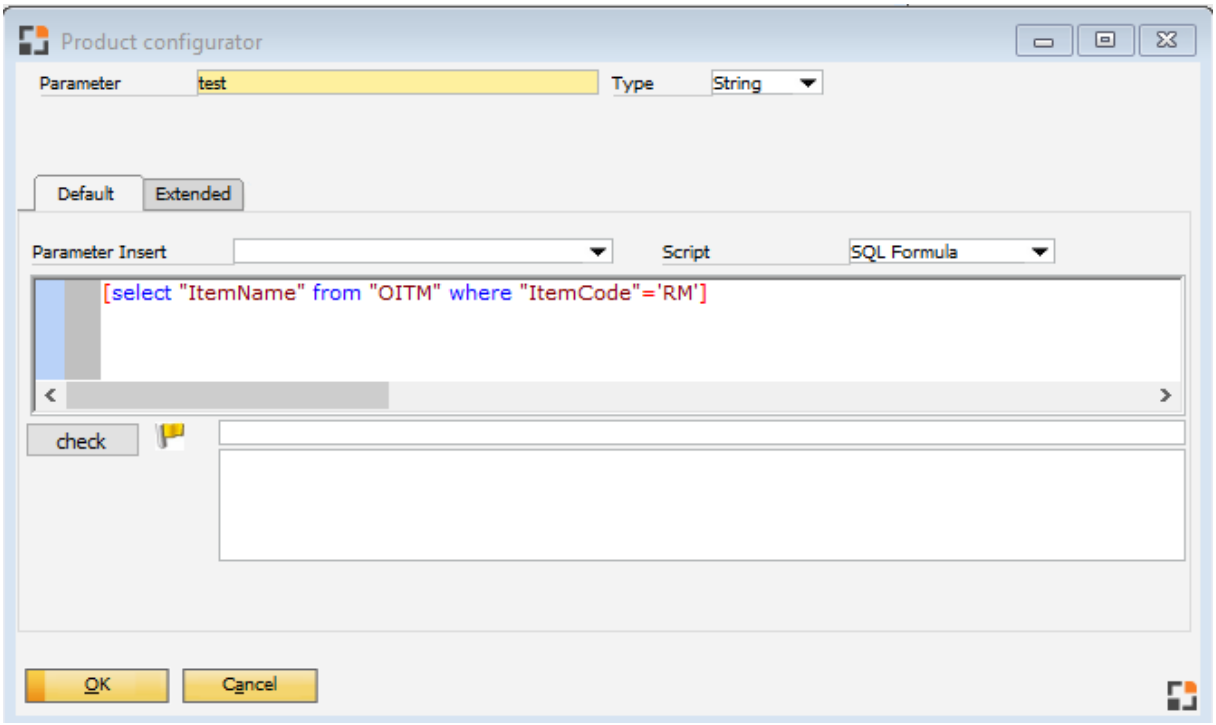
Field	Description
Bitmap	Select the icon for the specific block. By default, Beas selects a folder icon.
Color	Select a display color for the text of the block name.

8.14.2.1.3 Object-Type "Set-Object"

A Set-Object ( ) is a variable, to which you can assign a value or formula.

Use this for caluclation of variables, which you can use in work order or for visible rules / standard values in other parameters.

© 2026 Boyum IT Solutions A/S



Field	Description
Parameter	Object name Name of the object You can read the value of the object by name Note: The name must be unique. It is not allowed to use a object name more then once.
Parameter Type	Type of Parameter (String/Number) **The type of parameter** Auto: Beas determines whether the parameter is a number or a string depending on the value. • If the value is a number or "0", Beas interprets this parameter as a number. • If the value is empty or not a number, Beas interprets this parameter as a string. ***Example 1:*** Parameter: `"color"` is `"red"`

© 2026 Boyum IT Solutions A/S

Field	Description
	Formula: `'the color is ' || [color]` HANA SQL: `select 'the color is' || 'red'` -> all ok Formula: `10 + [color]` SQL: `10 + 'red'` -> produce error ***Example 2:*** Parameter: `"color"` is `"5.3"` Formula: `'the color is ' || [color]` HANA SQL: `select 'the color is' || 5.3` -> produce error Formula: `10 + [color]` SQL: `10 + 5.3` -> all ok The evaluation of a formula is always dependent on the contents of the parameter. All configurations created with *beas 9.2 PL 5 Build 32 or older*, use parameter type "Auto" as standard. Working with Beas system variables or custom defined variables starting with "**e_**", the parameter can be interpreted as a string or number. With the following BeasScript setup the type can be permanently defined as string type, if the value is a Beas variable. This must be executed only once per database or client. `setsetup=config_default_e_type=c`
	String: This parameter type allows a string. If working with formulas, Beas inserts a ‘ (single quotation mark) at the left and right side of the parameter. If you create a new parameter, the string type is the default option. ***Example 1:***

© 2026 Boyum IT Solutions A/S

Field	Description
	Parameter: `"color"` is `"red"` Formula: `'the color is ' || [color] (HANA SQL)` MS SQL: `select 'the color is' + N'red'` HANA SQL: `select 'the color is '  || ' red'` ***Example 2:*** Parameter: `"color_number"` is `"5,3"` Formula: `'10' + [color_number]` MS SQL: `'10' + '5,3'` -> all ok Formula: `'the color is ' + [color]` DataWindow Syntax: `'the color is' + 'red'`
Number	This parameter type allows numbers only. If the content is not a number, Beas replaces it with “0”. The decimal delimiter is based on what it is defined in the system, but Beas internally replaces it with a decimal point. ***Example:*** Parameter: `"color_number"` is `"5,3"` (Regional setting is Germany) Formula: `[color_number] * 3` SQL: `5.3 * 3`
	 If you use a parameter both as a string or numeric value, then it is advantageous to specify this directly in the formula. String formula: `'color is ' || [color,dbstring]` Number formula: `if [color_number,dbnum] > 10 then 1 else 100 end`

Area "Default"

Field	Description
Insert Parameter	Displays defined parameters and set-objects.

© 2026 Boyum IT Solutions A/S

Field	Description
Script	The Value if [and] inside the default value, the system see the default value as formula The following Script variants are supported • DW Script • SQL formula • JavaScript formula • Java script • VBScript formula • VBScript ***See*** Script Syntax When using the SQL formula, database accesses may reduce the performance of the configurator window. Note: `select "ItemName" from "OITM"  where "ItemCode"='FP'` is not working, because no [or] is inside In this case you can set the complete sql command between [and] `[select "ItemName" from "OITM"  where "ItemCode"='FP']` **IMPORTANT:** ***not*** all supported scripts defined above for the Desktop solution are valid for the Web solution. For more information ***see*** Web Configurator definition limitations.
The **check** button	Check for syntax errors in the entered script.
Flag	- Rule is error free - Warning (default) - Error in rule
Result line	Shows the result of the evaluated formula.
Evaluation of the formula	Shows the evaluated rule with status message.

© 2026 Boyum IT Solutions A/S

Extended

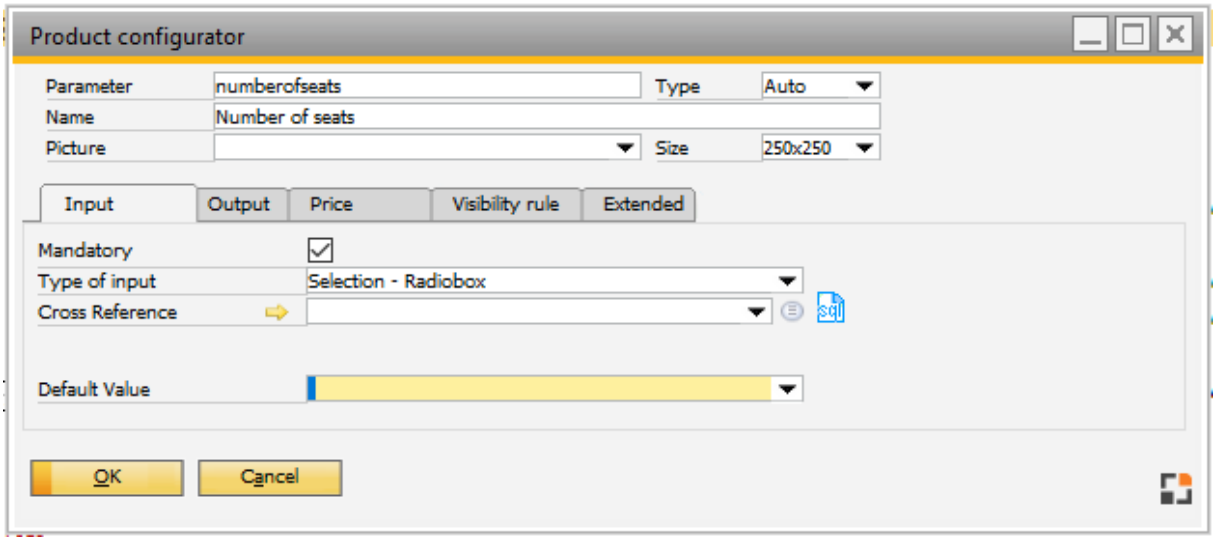
Field	Description
Bitmap	Select the icon for the specific block. By default, Beas selects a folder icon.
Color	Select a display color for the text of the block name.

8.14.2.1.4 Object-Type "Parameter"

A parameter is used for input or selection of possible options in the configuration.

Available parameter types:

- Normal: Alphanumerical values.
- Check box: Enable or disable the option (Yes/No).
- Selection: A selection objects need to be assigned to this parameter type: radio box or drop-down list.



Window artikel_produktkonfigurator_detail.psr

The following fields and properties are available in the header of the window:

Field	Description
Name	Parameter name (ID)
Type	Type of the parameter (string/number) **The type of parameter** Auto: Beas determines whether the parameter is a number or a string depending on the value.

© 2026 Boyum IT Solutions A/S

Field	Description
	• If the value is a number or "0", Beas interprets this parameter as a number. • If the value is empty or not a number, Beas interprets this parameter as a string. ***Example 1:*** Parameter: `"color"` is `"red"` Formula: `'the color is ' || [color]` HANA SQL: `select 'the color is' || 'red'` -> all ok Formula: `10 + [color]` SQL: `10 + 'red'` -> produce error ***Example 2:*** Parameter: `"color"` is `"5.3"` Formula: `'the color is ' || [color]` HANA SQL: `select 'the color is' || 5.3` -> produce error Formula: `10 + [color]` SQL: `10 + 5.3` -> all ok The evaluation of a formula is always dependent on the contents of the parameter. All configurations created with *beas 9.2 PL 5 Build 32 or older*, use parameter type "Auto" as standard. Working with Beas system variables or custom defined variables starting with "**e_**", the parameter can be interpreted as a string or number. With the following BeasScript setup the type can be permanently defined as string type, if the value is a Beas variable. This must be executed only once per database or client. `setsetup=config_default_e_type=c`

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td>String</td><td>This parameter type allows a string. If working with formulas, Beas inserts a ‘ (single quotation mark) at the left and right side of the parameter.
If you create a new parameter, the string type is the default option.

Example 1:
Parameter: <code>"color"</code> is <code>"red"</code>
Formula: <code>'the color is ' || [color] (HANA SQL)</code>
MS SQL: <code>select 'the color is' + N'red'</code>
HANA SQL: <code>select 'the color is ' || ' red'</code>

Example 2:
Parameter: <code>"color_number"</code> is <code>"5,3"</code>
Formula: <code>'10' + [color_number]</code>
MS SQL: <code>'10' + '5,3'</code> -> all ok

Formula: <code>'the color is ' + [color]</code>
DataWindow Syntax: <code>'the color is' + 'red'</code></td></tr>
<tr><td>Number</td><td>This parameter type allows numbers only. If the content is not a number, Beas replaces it with “0”. The decimal delimiter is based on what it is defined in the system, but Beas internally replaces it with a decimal point.

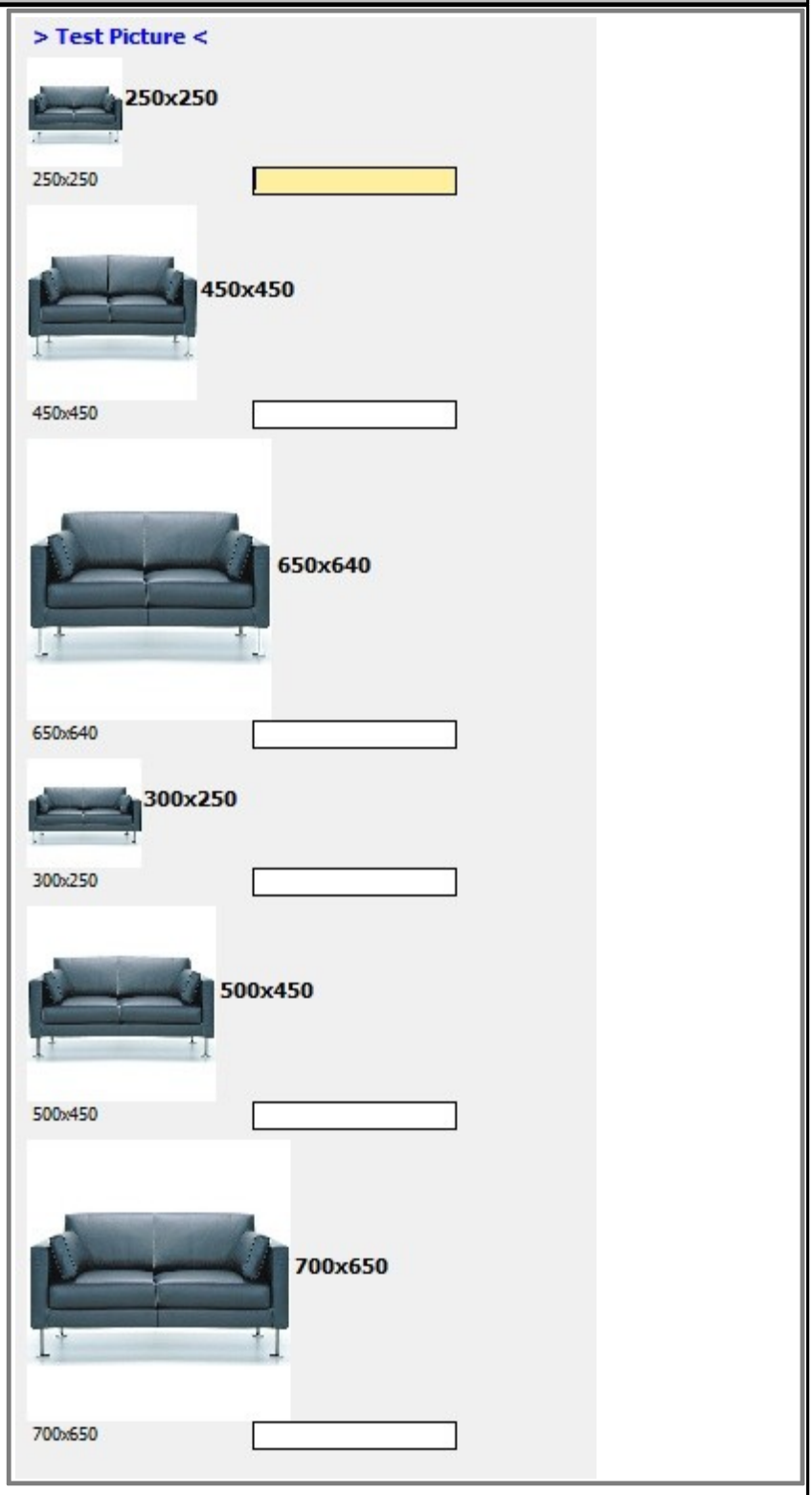
Example:
Parameter: <code>"color_number"</code> is <code>"5,3"</code> (Regional setting is Germany)
Formula: <code>[color_number] * 3</code>
SQL: <code>5.3 * 3</code></td></tr>
</table>

If you use a parameter both as a string or numeric value, then it is advantageous to specify this directly in the formula.
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

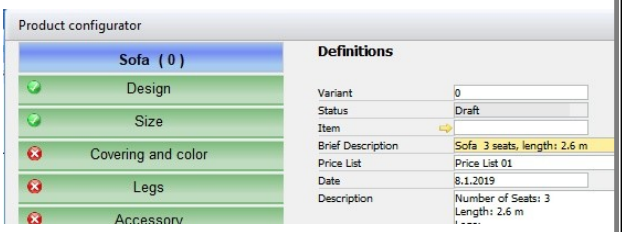
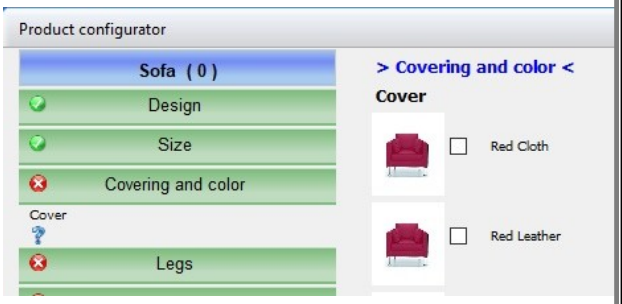
Field	Description
	String formula: `'color is ' || [color,dbstring]` Number formula: `if [color_number,dbnum] > 10 then 1 else 100 end`
Image	Select picture A picture to be displayed at this group. When the user selects the group, the picture is displayed. To select a picture, click on the drop-down arrow in the field and a screen opens to browse for the required image. Beas saves the image in the SAP Picture share folder. The image display size can also be defined. The size parameter is not supported fin the WEB version and in the WEB Configurator the image is always the original size. The following sizes are supported in the internal view: 250 x 250 450 x 450 650 x 650 300 x 250 500 x 450 700 x 650

© 2026 Boyum IT Solutions A/S

Field	Description
	

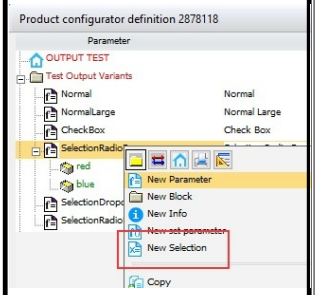
Input tab

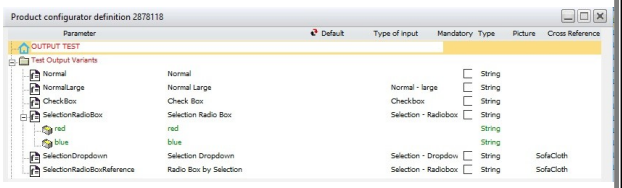
© 2026 Boyum IT Solutions A/S

Field	Description
Mandatory	Defines whether the field is mandatory You can define a parameter as mandatory: • Configuration saved with mandatory fields missing have "Draft" status. **NOTE:** The field must be filled, otherwise you cannot create a Precalculation or work order with this configuration.  Mandatory entries are marked with a question mark.  indicates that the area is not completed. indicates that the area is completed. *beas 9.3 PL 2*
Type of input	Defines how the input for a parameter is provided

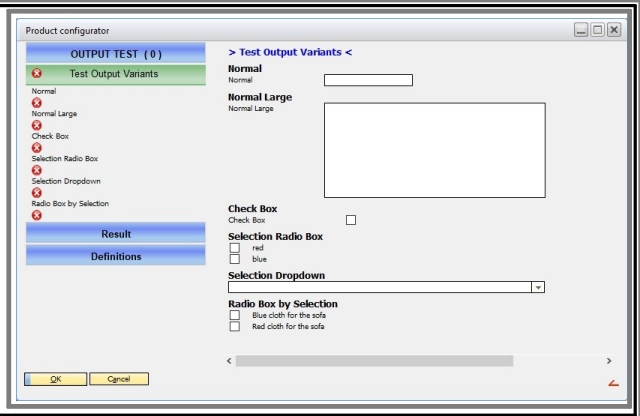
Value	Description
Normal	Small input field
Normal Large	Large input field

© 2026 Boyum IT Solutions A/S

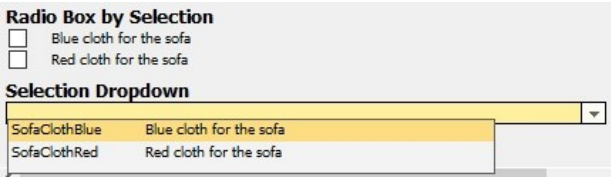
Check Box	Checkbox with result Y/N (yes/no)
Selection - Radio Box	Radio box. Selection options can be defined: • Using a SQL statement or Cross Reference to generate the radio buttons • By right-clicking on the created radio box parameter in the configurator and adding a New selection 
Selection - Dropdown	Create a drop-down field. A reference must be defined using a SQL statement or Cross Reference to chose the contents of the drop-down list.



© 2026 Boyum IT Solutions A/S

	
Cross Reference	Define values using a SQL Statement or product Cross Rererence This option can be used as a check box, radio box, or drop-down selection. Here you can insert the link to a cross reference, which can return a list of values for list or drop-down columns. **Only Desktop variant (no WEB Support)** Click the SQL icon to insert the SQL statement. Cross Reference: SQL Statement or manual values are supported. **SQL Command** The generated SQL Command must return 3 string parameters: • return value • description • picture (only for radiobox) **Tip** If a SQL statement is used, the configuration can be easily copied from one database to another. ***SQL example:***

© 2026 Boyum IT Solutions A/S

	Create a list of all Items starting with "SofaCloth". Use SQL Editor or type the commands: [select id,description,bitmapname from table where ...] For all items starting with "SofaCloth": `[select "ItemCode","ItemName" from "OITM" where "ItemCode" like 'SofaCloth%']` The result of using this statement for radio box and selection drop-down: 
Default Value	If a default value is defined, it is assigned to the parameter. Note, that this filed is case sensitive. Possible Default values Working with Default values • Fixed value Text or numeric value (as required) ***Example:*** test or 123 • Variables, which are defined before opening in the Configurator window (that is, with Beas script in "Windowevent open"). These variables must be defined with "e_". ***Example:*** [e_cardcode] • As empty value Choose [CurrentEntry] • Previously defined parameters. These defaults are dynamically changed. ***Example:*** [so_mysetobject]

© 2026 Boyum IT Solutions A/S

Fixed value

A fixed value is set if:

- a new configuration is loaded
- if a previously invalid default value becomes valid

Example of an invalid default value becoming valid again:

A radio box is defined with 3 elements: red, yellow, green. The default value is yellow. But the visibility rule specifies that yellow is invisible, and therefore invalid. In this case, "yellow" is invalid,so there is no default. Every time the configuration is changed, the system checks whether yellow is valid. If it becomes visible again, the parameter is set if the default has not yet been overwritten.

Default is a parameter

If the default value is a parameter, it is always reset if something is changed before the parameter.

Example:

```
WheelSize
defcolor (set object): case
when[WheelSize] <30 then 'red' else 'blue'
end
Color (Default=[defcolor])
```

If `WheelSize` is changed, the content of Color is also reset because `WheelSize` is BEFORE `Color`. If values are changed after `Color`, `Color` the value is not set again.

Manual changes have priority

If `Color` is changed manually, the manual change takes precedence, that is even if `WheelSize` is changed, the default value of `Color` is not reset,

© 2026 Boyum IT Solutions A/S

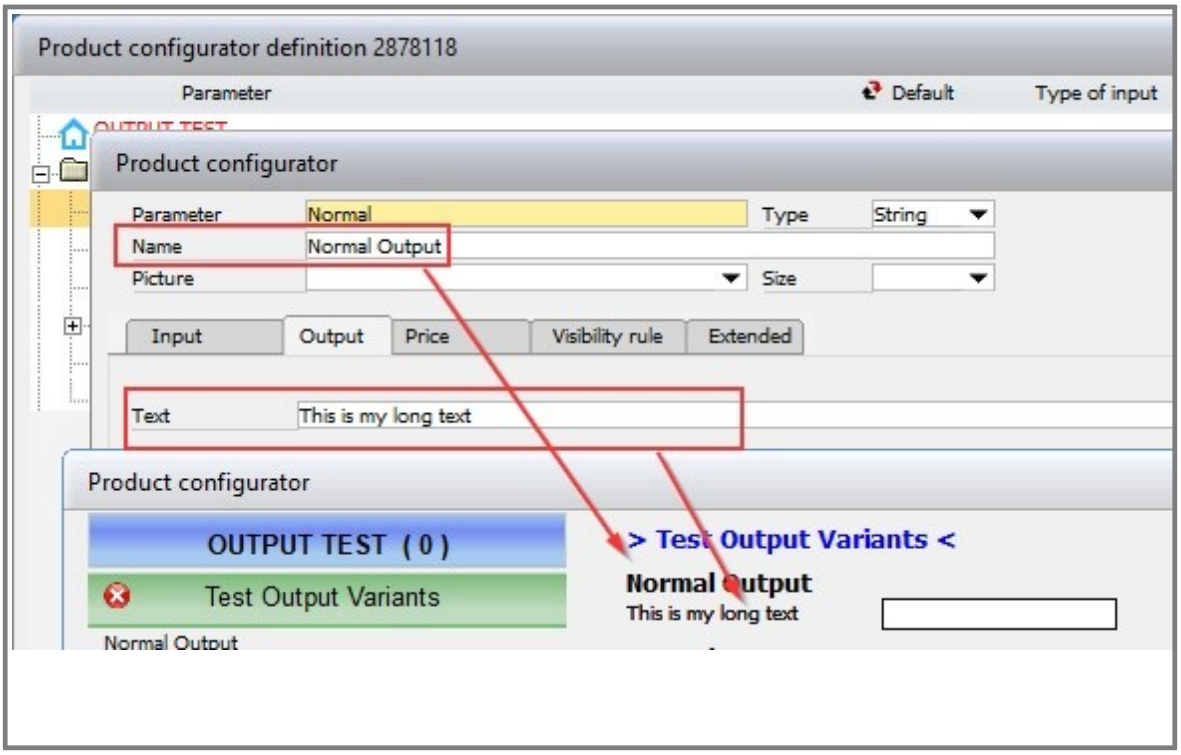
	except, if the manually selected value loses its validity.
	
	Example:
	
	`Color is a radio box`
	`// Red only available, if WheelSize < 30`
	`// Blue only available, if WheelSize>24`
	`Red = case when [WheelSize] <30 then 1`
	`else 0 end`
	`Blue= case when [WheelSize] >24 then 1`
	`else 0 end`
	
	If Blue is manually selected and then `WheelSize` is set to 22, Blue becomes invalid, so the manual entry loses its priority and the default value is set. In this case red and the entry is marked as "not changed manually".
	If the default value is also invalid, the entry is marked as "not set".

- Output tab

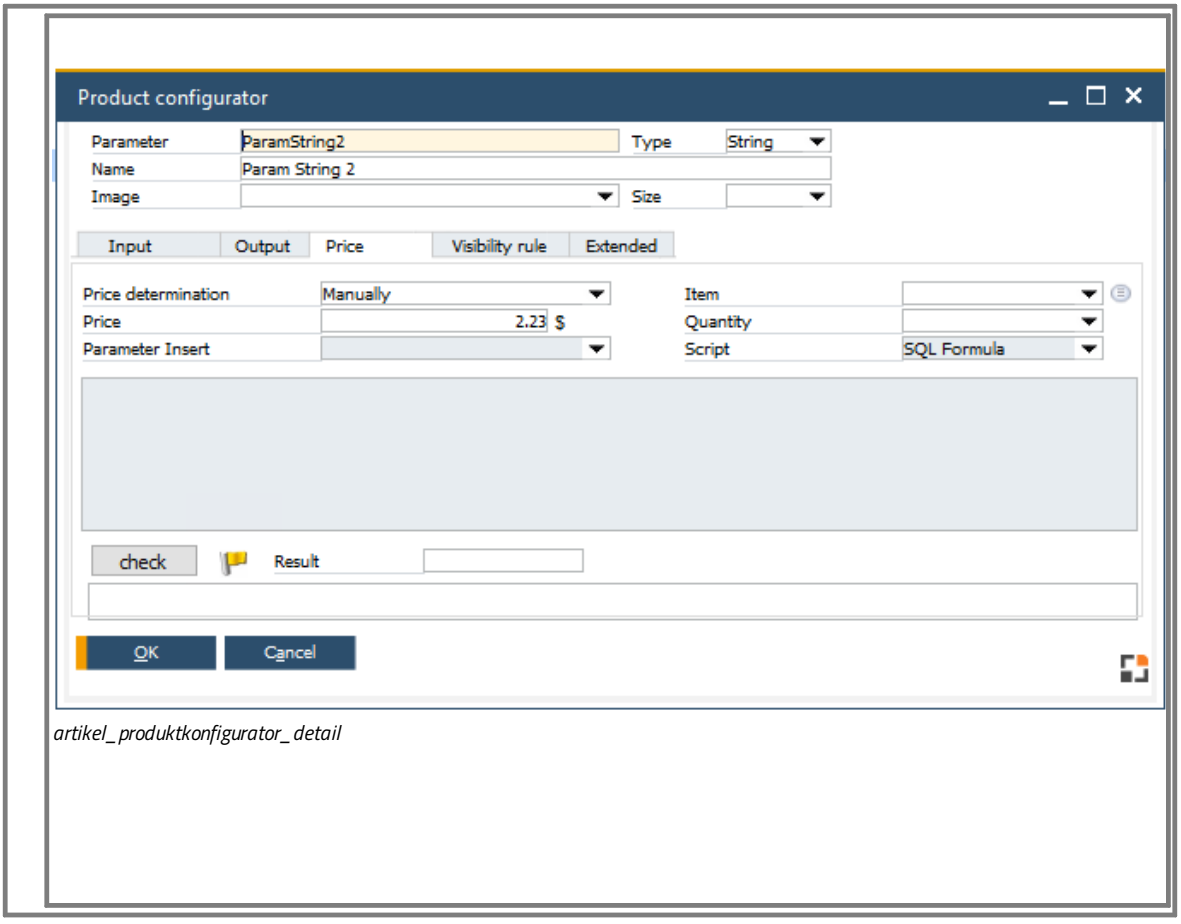
The Description of the Input tab can be replaced with another text defined in this field.

Field	Description
Text	Definition of an the output text

© 2026 Boyum IT Solutions A/S



- Tab Price



artikel_produktkonfigurator_detail

© 2026 Boyum IT Solutions A/S

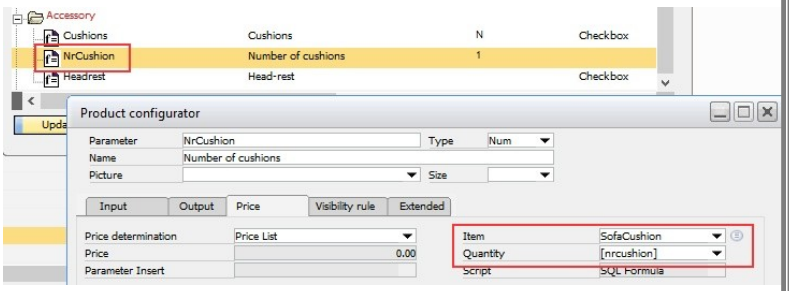
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Price determination</td><td>Define the price
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>Formula</td><td>Create a formula to calculate the price</td></tr>
<tr><td>Manually</td><td>Insert the price manually in the Price field</td></tr>
<tr><td>Price List</td><td>Use price from a Price List.
- Use default price list, defined in Calculation Header.
- Use a special price list of a customer if it is selected from "Default price list" drop-down in the Calculation Header. (previously "Use BP price list" radio box).

Supports all price list rules, but unit groups are not supported.

If you insert [cprice] in a formula, you see the price determination result by Price List in this parameter.</td></tr>
<tr><td>No</td><td>Price determination is not activated for this entry.</td></tr>
</table></td></tr>
<tr><td>Price</td><td>Use the entered price if price determination is set to Manually.
The logo of the actual currency (for example "$" or "€") is displayed right of the field.
Prices are rounded according to the value defined in SAP Business One > General Settings > Display > Decimal Places (0..6) > Prices.
Up to 6 decimals can be defined.</td></tr>
<tr><td>Item</td><td>Define the item to determine the price from a price list
Choose the item directly or insert a parameter.

For example for the following sofa cushions, there are two parameters:
- Cushions Yes/No: whether cushions are needed</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

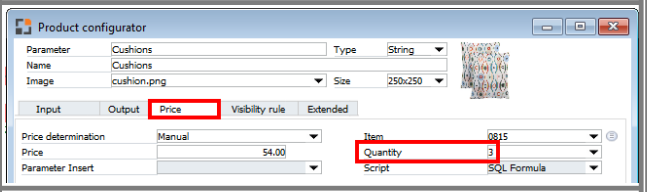
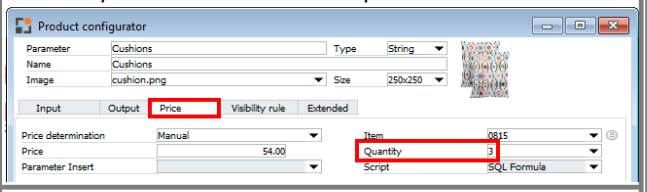
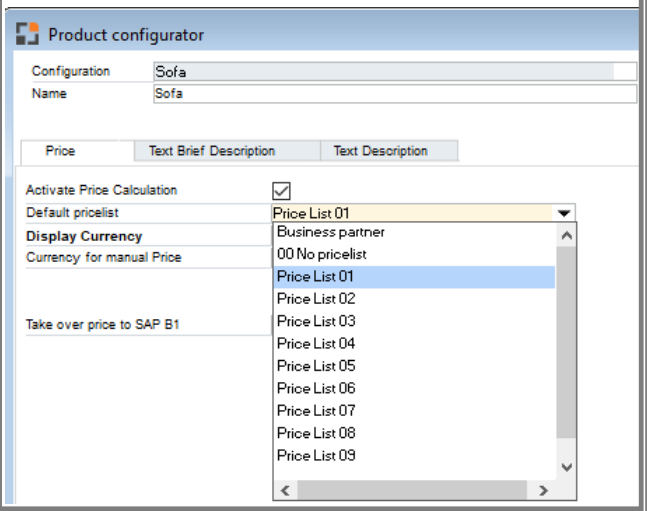
Field	Description
	- Number of quantity: how many cushions are needed In Cushion the price determination is set to No, so it does not affect the price. In Number of Quantity we define the price by a price list. Price comes from price list from "SofaCushion" item that was added to the Item field. Quantity comes from the current "Number of Cushions" parameter (nrcushion), so the [nrcushion] parameter is chosen in the Quantity field.  Result: Beas searches in the price list for the sofa cushion item. Total Quantity = Quantity from Sales Order / Quotation * Quantity from [nrcushion] Result = Price from Price List * Quantity from [nrcushion] Use the Test button in the product configurator definition list to test the setup. Note: **Volume discount** can be applied for the item (parameter), but not the parent item. **Limitation:** The price value CurrentEntry is not supported in WebApp Terminal 2.1
Quantity	Define the quantity for calculation

© 2026 Boyum IT Solutions A/S

Field	Description
	Insert a number manually or use a parameter. Two quantities are calculated: Required quantity for 1 product (cquantity) Required total quantity (calculated quantity * quantity from sales order = ctotalquantity) For an example, ***see*** Item. *beas 9.3 PL 2*
Script / Formula	Calculate the price using a formula If the price is calculated by a formula (Price determination is set to Formula), insert the formula. The Parameter Insert field provides a shortcut to all available parameters. If the "[price]" field is in the formula, Beas determines the price using the price list. ***See*** Script Syntax The following standard parameters are available. Note: Not supported in WEB Configurator.

Parameter Name	Description
`cprice`	Price from a price list (only for the Price calculation field)
`cpricequan`	Calculated quantity for this item (tab Price - field Quantity)

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Parameter Name</th><th>Description</th></tr><tr><td></td><td>  </td></tr><tr><td>cpricetota</td><td>Calculated quantity (= tab Price - field Quantity) * Quantity from sales order or quotation  </td></tr><tr><td>cpricelist</td><td>Price list defined in Configuration Header  </td></tr><tr><td>currentuse</td><td>Current user</td></tr><tr><td>cardcode</td><td>Business partner from the sales order or quotation</td></tr><tr><td>cquantity</td><td>Quantity from the sales order or quotation</td></tr><tr><td>cdocdate</td><td>Date from the sales order in "yyyymmdd" format, example 20220503 for the date 2022/05/03</td></tr><tr><td>cshortvari</td><td>Short variant A-Z from sales order or quotation</td></tr></table>
The **check** button	Check for syntax errors in the entered script
Flag	– The rule is error free

© 2026 Boyum IT Solutions A/S

Field	Description
	– Warning (default) – Error in rule
Result	Shows the result of the evaluated formula. The result must be a number. **Attention:** Price determination by price list is not working here, [cprice] is always 0.
Evaluation of the rule	Shows the evaluated formula with a status message.

Tab Visible Rule

Some rules can be defined to display the block with specific values or parameters. The rules determine whether a configuration option is presented to the operator, based on previous configuration selection. Therefore, it is possible to restrict options. The rule is created in SQL syntax.

Field	Description
Parameter Insert	Parameters and Set Objects that are already defined, are displayed in a selection list. They can be used to create a rule.
Script	The language syntax that the rule is written in. Available options are: • DW Script • SQL formula • JavaScript formula • Java script • VBScript formula • VBScript ***See*** Script Syntax
Input field	Insert the visible rule for the object. All defined parameters and Set-Objects can be used in the configuration. ***Example:*** [a] = 5 [color] = red [a] > 5 or [b] = 3

© 2026 Boyum IT Solutions A/S

Field	Description
	To have a parameter not visible (maybe for special cases): 1 = 2 ***see*** Script Syntax Note: When using the SQL formula, database accesses may reduce the performance of the configurator window.
The **check** button	Check for syntax errors in the entered script.
Flag	– The rule is error free – Warning (default) – Error in rule
Result line	Shows the result of the evaluated rule.
Evaluation of the rule	Shows the evaluated rule with status message.

Tab Extended

Field	Description
Bitmap	Select the icon for the specific block. By default, Beas selects a folder icon.
Color	Select a display color for the text of the block name.

8.14.2.1.5 Object-Type "Selection"

A selection (/) always refers to a superordinate parameter. The selection object is displayed as a radio box or dropdown list (only in case of an assigned reference).

The following fields and properties are available:

© 2026 Boyum IT Solutions A/S

Field	Description
Parameter	Parameter name
Name	Designation of parameters
Picture	Select picture A picture to be displayed at this group. When the user selects the group, the picture is displayed. To select a picture, click on the drop-down arrow in the field and a screen opens to browse for the required image. Beas saves the image in the SAP Picture share folder. The image display size can also be defined. The size parameter is not supported fin the WEB version and in the WEB Configurator the image is always the original size. The following sizes are supported in the internal view: 250 x 250 450 x 450 650 x 650 300 x 250 500 x 450 700 x 650

© 2026 Boyum IT Solutions A/S

Field	Description
	> Test Picture < 250x250 250x250 450x450 450x450 650x640 650x640 300x250 300x250 500x450 500x450 700x650 700x650

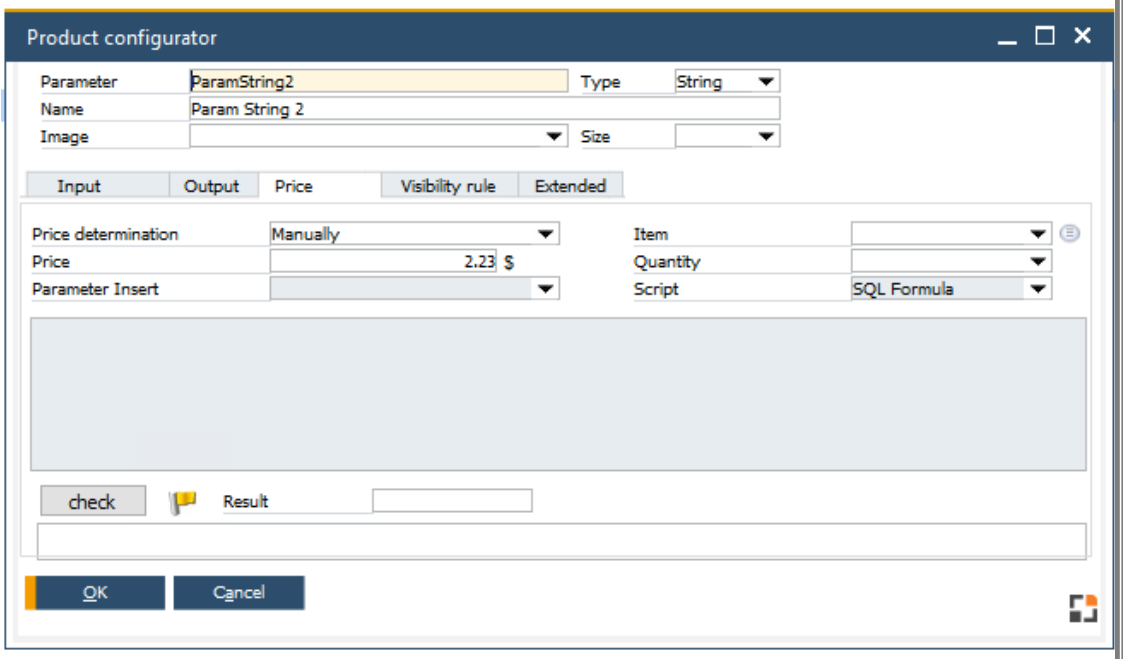
© 2026 Boyum IT Solutions A/S

Field	Description
Size	Definite picture size

- Output tab

Long text	Field for additional text
Text 1, Text 2, Text 3	Field for additional text

- Price tab



artikel_produktkonfigurator_detail

Field	Description
Price determination	- Define the price

Value	Description
Formula	Create a formula to calculate the price
Manually	Insert the price manually in the Price field

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>Price List</td><td>Use price from a Price List.
- Use default price list, defined in Calculation Header.
- Use a special price list of a customer if it is selected from "Default price list" drop-down in the Calculation Header. (previously "Use BP price list" radio box).

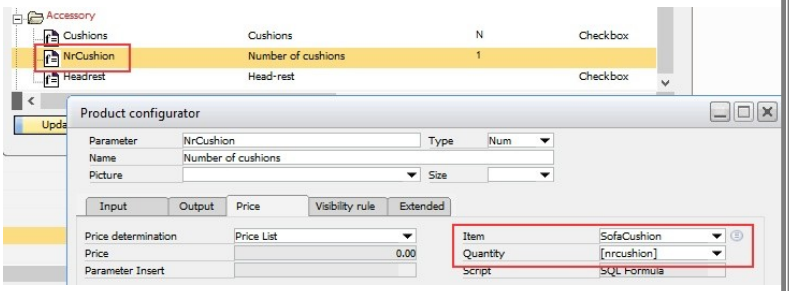
Supports all price list rules, but unit groups are not supported.

If you insert [cprice] in a formula, you see the price determination result by Price List in this parameter.</td></tr>
<tr><td>No</td><td>Price determination is not activated for this entry.</td></tr>
</table>
</td></tr>
<tr><td>Price</td><td>Use the entered price if price determination is set to Manually.
The logo of the actual currency (for example "$" or "€") is displayed right of the field.
Prices are rounded according to the value defined in SAP Business One > General Settings > Display > Decimal Places (0..6) > Prices.
Up to 6 decimals can be defined.</td></tr>
<tr><td>Item</td><td>Define the item to determine the price from a price list
Choose the item directly or insert a parameter.

For example for the following sofa cushions, there are two parameters:
- Cushions Yes/No: whether cushions are needed
- Number of quantity: how many cushions are needed

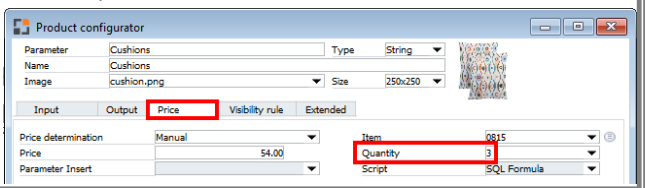
In Cushion the price determination is set to No, so it does not affect the price.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

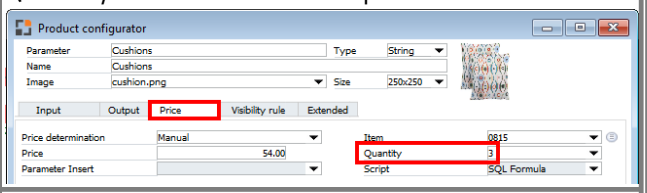
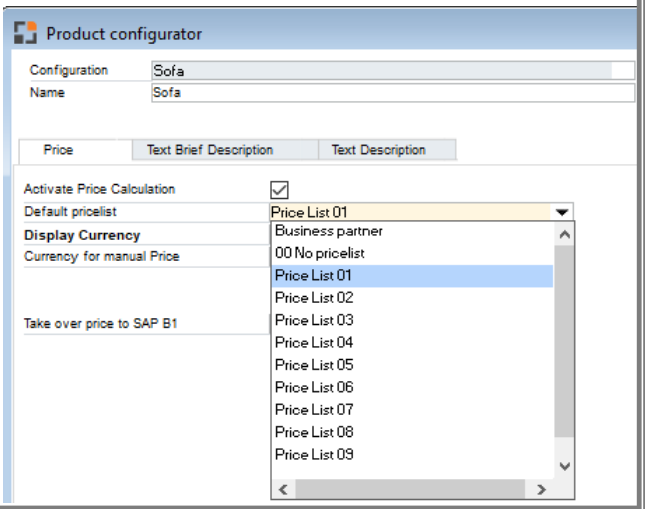
Field	Description
	In Number of Quantity we define the price by a price list. Price comes from price list from "SofaCushion" item that was added to the Item field. Quantity comes from the current "Number of Cushions" parameter (nrcushion), so the [nrcushion] parameter is chosen in the Quantity field.  Result: Beas searches in the price list for the sofa cushion item. Total Quantity = Quantity from Sales Order / Quotation * Quantity from [nrcushion] Result = Price from Price List * Quantity from [nrcushion] Use the Test button in the product configurator definition list to test the setup. Note: **Volume discount** can be applied for the item (parameter), but not the parent item. **Limitation:** The price value CurrentEntry is not supported in WebApp Terminal 2.1
Quantity	Define the quantity for calculation Insert a number manually or use a parameter.

© 2026 Boyum IT Solutions A/S

Field	Description
	Two quantities are calculated: Required quantity for 1 product (cquantity) Required total quantity (calculated quantity * quantity from sales order = ctotalquantity) For an example, ***see*** Item. *beas 9.3 PL 2*
Script / Formula	Calculate the price using a formula If the price is calculated by a formula (Price determination is set to Formula), insert the formula. The Parameter Insert field provides a shortcut to all available parameters. If the "[price]" field is in the formula, Beas determines the price using the price list. ***See*** Script Syntax The following standard parameters are available. Note: Not supported in WEB Configurator.

Parameter Name	Description
`cprice`	Price from a price list (only for the Price calculation field)
`cpricequan`	Calculated quantity for this item (tab Price - field Quantity) 
`cpricetota`	Calculated quantity (= tab Price - field Quantity) *

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Parameter Name</th><th>Description</th></tr><tr><td></td><td>Quantity from sales order or quotation  </td></tr><tr><td>cpricelist</td><td>Price list defined in Configuration Header  </td></tr><tr><td>currentuse</td><td>Current user</td></tr><tr><td>cardcode</td><td>Business partner from the sales order or quotation</td></tr><tr><td>cquantity</td><td>Quantity from the sales order or quotation</td></tr><tr><td>cdocdate</td><td>Date from the sales order in "yyyymmdd" format, example 20220503 for the date 2022/05/03</td></tr><tr><td>cshortvari</td><td>Short variant A-Z from sales order or quotation</td></tr></table>
The **check** button	Check for syntax errors in the entered script
Flag	– The rule is error free – Warning (default) – Error in rule
Result	Shows the result of the evaluated formula. The result must be a number.

© 2026 Boyum IT Solutions A/S

Field	Description
	Attention: Price determination by price list is not working here, [cprice] is always 0.
Evaluation of the rule	Shows the evaluated formula with a status message.

Visibility rule tab

Some rules can be defined to display the block with specific values or parameters. The rules determine whether a configuration option is presented to the operator, based on previous configuration selection. Therefore, it is possible to restrict options. The rule is created in SQL syntax.

Field	Description
Parameter Insert	Parameters and Set Objects that are already defined, are displayed in a selection list. They can be used to create a rule.
Script	The language syntax that the rule is written in. Available options are: • DW Script • SQL formula • JavaScript formula • Java script • VBScript formula • VBScript ***See*** Script Syntax
Input field	Insert the visible rule for the object. All defined parameters and Set-Objects can be used in the configuration. ***Example:*** [a] = 5 [color] = red [a] > 5 or [b] = 3 To have a parameter not visible (maybe for special cases): 1 = 2 ***see*** Script Syntax

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: When using the SQL formula, database accesses may reduce the performance of the configurator window.
The **check** button	Check for syntax errors in the entered script.
Flag	– The rule is error free – Warning (default) – Error in rule
Result line	Shows the result of the evaluated rule.
Evaluation of the rule	Shows the evaluated rule with status message.

Extended tab

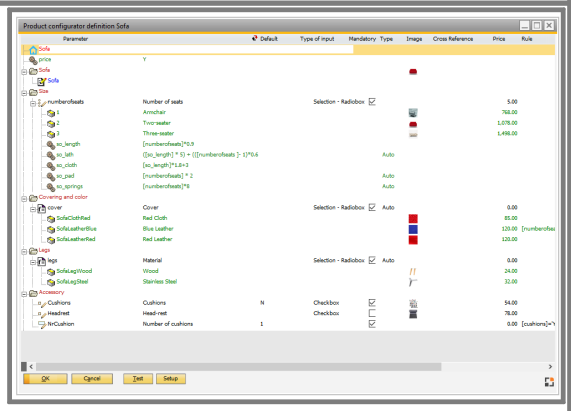
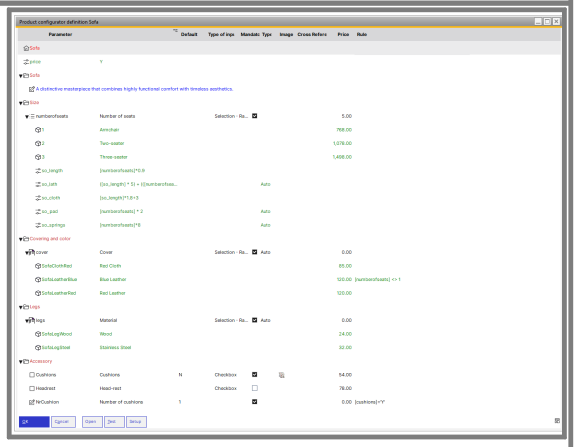
Field	Description
Bitmap	Select the icon for the specific block. By default, Beas selects a folder icon.
Color	Select a display color for the text of the block name.

8.14.2.1.6 Configuration objects

The following object types can be added to the configuration structure:

Traditional style	Boyum Style
Click to expand full image	Click to expand full image

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style
	

Window artikel_produktkonfigurator.psr

Icons

Icon	Boyum Style	Object type	Description
		block	A *block* represents a grouping property within the configurator. Further objects can be subordinated to this. A block is visible in the navigation area of the configurator. Click to display the subordinate objects, such as parameters or dropdown lists at run time in the detail area. In our Sofa example the blocks are Design, Size, Covering and Color, Legs and Accessory which contain Sofa-relevant parameters with check boxes or drop-downs. Detailed Block description and functions The following fields and properties are available: **Field** / **Description** Name — Item name (item number) After calling the configurator, this name is displayed at the top in the navigation area on the left Picture — Select picture Size — Define picture size

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
Long text	Field for additional text
Text 1	Field for additional text
Text 2	Field for additional text
Text 3	Field for additional text

Some rules can be defined to display the block with specific values or parameters. The rules determine whether a configuration option is presented to the operator, based on previous configuration selection. Therefore, it is possible to restrict options. The rule is created in SQL syntax.

Field	Description
Parameter Insert	Parameters and Set Objects that are already defined, are displayed in a selection list. They can be used to create a rule.
Script	The language syntax that the rule is written in. Available options are: • DW Script • SQL formula • JavaScript formula • Java script • VBScript formula • VBScript ***See*** Script Syntax
Input field	Insert the visible rule for the object. All defined parameters and Set-Objects can be used in the configuration. ***Example:*** [a] = 5 [color] = red

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	[a] > 5 or [b] = 3 To have a parameter not visible (maybe for special cases): 1 = 2 ***see*** Script Syntax Note: When using the SQL formula, database accesses may reduce the performance of the configurator window.
The **check** button	Check for syntax errors in the entered script.
Flag	– The rule is error free – Warning (default) – Error in rule
Result line	Shows the result of the evaluated rule.
Evaluation of the rule	Shows the evaluated rule with status message.

Tab "Extended"

Field	Description
Bitmap	to change the bitmap of the actual configuration object. Possible standard bitmaps via selection in the dropdown list
Color	set the color of text of the configuration object

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description
		Info	An Info-object displays a text and (optionally) an image in the detail area of the associated block. In our Sofa example, the info-object is Design – a full description of the product.
		Parameter	A *Parameter* is used to input or select the possible product options. In our Sofa example above the parameters are the Number seats, the color and the cover, the legs and accessories. Parameter object details A *parameter* ( ) is used for input or selection of possible options. You can access the value of the parameter, i.e. the selection you made, in the configurator within formulas/set objects.There are three possibilities: o *Normal*: Enter alphanumerical values o *Checkbox*: Select Yes/No o *Selection*: To a parameter of this type, selection objects need to be assigned (Separate objects, Radiobox or dropdown list). **The following fields and properties are available:**

Field	Description
Parameter	Parameter name
Type	Type of the parameter (string/number) **The type of parameter** Auto: Beas determines whether the parameter is a number or a string depending on the value. • If the value is a number or "0", Beas interprets this parameter as a number.

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description
			Field / **Description**

- If the value is empty or not a number, Beas interprets this parameter as a string.

Example 1:

Parameter: `"color"` is `"red"`

Formula: `'the color is ' || [color]`

HANA SQL: `select 'the color is' || 'red' ->` all ok

Formula: `10 + [color]`

SQL: `10 + 'red' ->` produce error

Example 2:

Parameter: `"color"` is `"5.3"`

Formula: `'the color is ' || [color]`

HANA SQL: `select 'the color is' || 5.3 ->` produce error

Formula: `10 + [color]`

SQL: `10 + 5.3 ->` all ok

The evaluation of a formula is always

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description
			Field / **Description**
			dependent on the contents of the parameter. All configurations created with *beas 9.2 PL 5 Build 32 or older*, use parameter type "Auto" as standard. Working with Beas system variables or custom defined variables starting with "**e_**", the parameter can be interpreted as a string or number. With the following BeasScript setup the type can be permanently defined as string type, if the value is a Beas variable. This must be executed only once per database or client. `setsetup=config_default_e_type=c`
			String: This parameter type allows a string. If working with formulas, Beas inserts a ' (single quotation mark) at the left and right side of the parameter. If you create a new parameter, the string type is the default option.

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	Example 1: Parameter: `"color"` is `"red"` Formula: `'the color is ' || [color] (HANA SQL)` MS SQL: `select 'the color is' + N'red'` HANA SQL: `select 'the color is ' || ' red'` ***Example 2:*** Parameter: `"color_number"` is `"5,3"` Formula: `'10' + [color_number]` MS SQL: `'10' + '5,3' ->` all ok Formula: `'the color is ' + [color]` DataWindow Syntax: `'the color is' + 'red'`
Number	This parameter type allows numbers only. If the content is not a number, Beas replaces it with “0”. The decimal delimiter is based on what it is defined in the system, but Beas internally replaces it with a decimal point. ***Example:***

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	Parameter: `"color_number"` is `"5,3"` (Regional setting is Germany) Formula: `[color_number] * 3` SQL: `5.3 * 3` If you use a parameter both as a string or numeric value, then it is advantageous to specify this directly in the formula. String formula: `'color is ' || [color,dbstring]` Number formula: `if [color_number,dbnum] > 10 then 1 else 100 end`
Name	Designation of Parameter
Picture	Select picture
Size	Definite picture size

Tab "Input"

Field	Description
Mandatory	If enabled, the parameter requires input, indicated by icon in the left navigation bar of the configurator window at runtime. The icon changes after editing the parameter. All mandatory

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	parameters must be edited, to have the complete block processed. icon changes to).
Type of input	This defines how the input for a parameter has to be made. Possible settings are: o Normal: Enter alphanumerical values o Normal - large: Enter alphanumerical values to a large text field o Checkbox: Select Yes/No o Selection - Radiobox: Display as "Radiobox" List (Selection 1 out of n) o Selection - Dropdown: Display as "Dropdown"-List (only possible if values will fetched via "Select"-Statement from Database!!)
Cross Reference	If type of input is selection, add an alternative to the parameter. You can access existing tables in **Production > Product configurator > References**. Saved references can be selected and will be available for selection in product configurator.
Default Value	If a default value is defined, this is assigned to the parameter (**Case sensitive!**) Possible Default values

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	a) fix value Text or numeric value (as required) ***Example:*** test or 123 b) Variables, which are defined before opening in the Configurator window (e. g. with Beas Script in "Windowevent open"). These variables must be defined with "e_". ***Example:*** [e_cardcode] c) Previously defined parameters. These defaults are also changed dynamically ***Example:*** [so_mysetobject] **Fixed value** A fixed value is set if a) a new configuration is loaded b) if a previously invalid default value becomes valid **When does an invalid default value become valid again?** This is explained in the following example:

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description
			Field / **Description**

			Radio box with 3 elements: red, yellow, green.
			The default value is yellow. But the visibility rule specifies that yellow is invisible and therefore invalid. In this case, "yellow" is not defined as the default value. There is no default.
			Every time the configuration is changed, the system checks whether yellow is valid. If yes, this is set if the parameter has not yet been set otherwise.
			
			The default is a parameter
			
			If the default value is a parameter, it is always reset if something is changed before the parameter.
			Example:
			
			`WheelSize`
			`defcolor (set object):`
			`case when[WheelSize] <30 then 'red' else 'blue' end`
			`Color (Default=[defcolor])`
			
			If `WheelSize` is changed, the content of Color is also reset because `WheelSize` is BEFORE `Color`. If values are changed

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description

	after `Color`, `Color` is not set again.
	
	Manual changes have priority:
	
	If `Color` is changed manually, the manual change takes precedence, i.e. even if `WheelSize` is changed, the default value of `Color` is not reset.
	Exception: the manually selected value loses its validity.
	
	Example:
	
	`Color is a radio box`
	`// Red only available, if WheelSize < 30`
	`// Blue only available, if WheelSize>24`
	`Red = case when [WheelSize] <30 then 1 else 0 end`
	`Blue= case when [WheelSize] >24 then 1 else 0 end`
	
	If you now manually select Blue and then set `WheelSize` to 22, Blue becomes invalid, so that manual entry loses its priority and the default value is set, in this case red and the

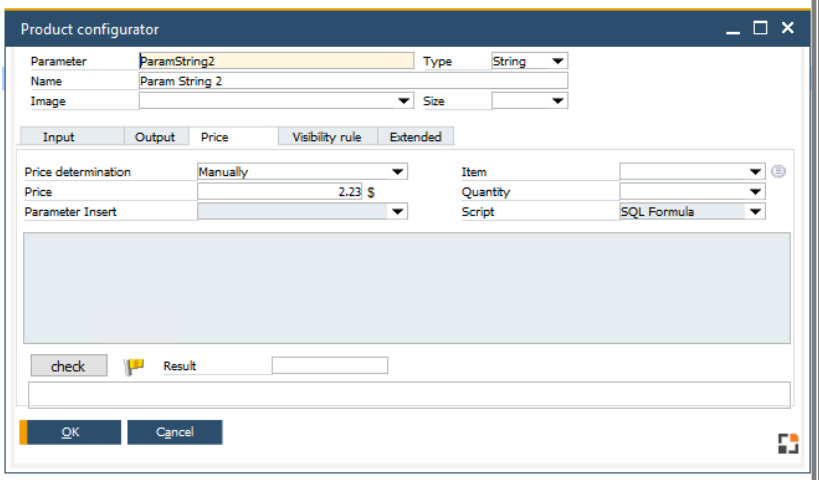
© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	entry is marked as "not changed manually". If the default value is also invalid, the entry is marked as "not set".

Tab "Output"

Field	Description
Text	Definition of an output Text



artikel_produktkonfigurator_detail

Field	Description
Price determination	Define the price

Icon	Boyum Style	Object type	Description

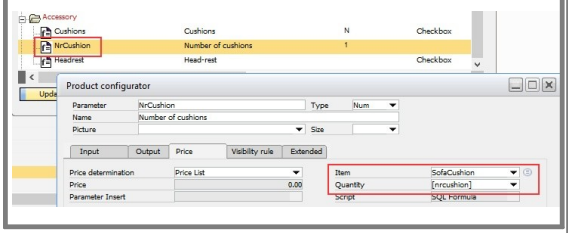
Field	Description

Value	Description
Formula	Create a formula to calculate the price
Manually	Insert the price manually in the Price field
Price List	Use price from a Price List. - Use default price list, defined in Calculation Header. - Use a special price list of a customer if it is selected from "Default price list" drop-down in the Calculation Header. (previously "Use BP price list" radio box). Supports all price list rules, but unit groups are not supported. If you insert [cprice] in a formula, you see the price determination result by Price List in this parameter.
No	Price determination is not activated for this entry.

Field	Description
Price	Use the entered price if price determination is set to Manually. The logo of the actual currency (for example "$" or "€") is displayed right of the field. Prices are rounded according to the value defined in **SAP Business One > General Settings**

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	> Display > Decimal Places (0..6) > Prices. Up to 6 decimals can be defined.
Item	Define the item to determine the price from a price list Choose the item directly or insert a parameter. For example for the following sofa cushions, there are two parameters: - Cushions Yes/No: whether cushions are needed - Number of quantity: how many cushions are needed In Cushion the price determination is set to No, so it does not affect the price. In Number of Quantity we define the price by a price list. Price comes from price list from "SofaCushion" item that was added to the Item field. Quantity comes from the current "Number of Cushions" parameter (nrcushion), so the [nrcushion] parameter is chosen in the Quantity field. 

© 2026 Boyum IT Solutions A/S

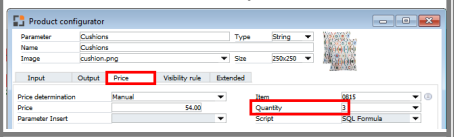
Icon	Boyum Style	Object type	Description

Field	Description
	Result: Beas searches in the price list for the sofa cushion item. Total Quantity = Quantity from Sales Order / Quotation * Quantity from [nrcushion] Result = Price from Price List * Quantity from [nrcushion] Use the Test button in the product configurator definition list to test the setup. Note: **Volume discount** can be applied for the item (parameter), but not the parent item. **Limitation:** The price value CurrentEntry is not supported in WebApp Terminal 2.1
Quantity	Define the quantity for calculation Insert a number manually or use a parameter. Two quantities are calculated: Required quantity for 1 product (cquantity) Required total quantity (calculated quantity * quantity from sales order = ctotalquantity) For an example, ***see*** Item. *beas 9.3 PL 2*
Script /	Calculate the price using a formula

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

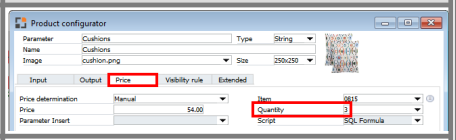
Field	Description
Formula	If the price is calculated by a formula (Price determination is set to Formula), insert the formula. The Parameter Insert field provides a shortcut to all available parameters. If the "[price]" field is in the formula, Beas determines the price using the price list. ***See*** Script Syntax The following standard parameters are available. Note: Not supported in WEB Configurator.

Parameter Name	Description
`cprice`	Price from a price list (only for the Price calculation field)
`cpriceq`	Calculated quantity for this item (tab Price - field Quantity) 
`cpricet`	Calculated quantity (= tab Price - field Quantity) * Quantity from sales order or quotation

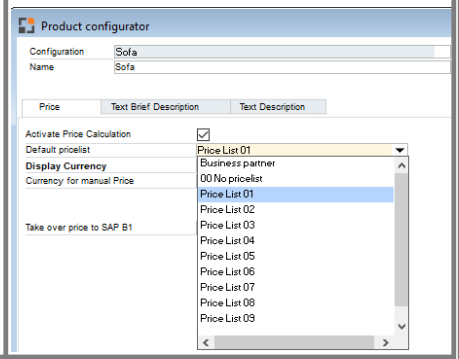
© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description
			Field / **Description**

Field	Description
	Parameter Name / **Description**



Parameter Name	Description
cpricel	Price list defined in Configuration Header



Parameter Name	Description
current	Current user
cardcod	Business partner from the sales order or quotation
cquanti	Quantity from the sales order or quotation
cdocdat	Date from the sales order in "yyyymmdd" format, example 20220503 for the date 2022/05/03
cshortv	Short variant A-Z from sales order or quotation

Field	Description
The **check** button	Check for syntax errors in the entered script
Flag	– The rule is error free

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	– Warning (default) – Error in rule
Result	Shows the result of the evaluated formula. The result must be a number. **Attention:** Price determination by price list is not working here, [cprice] is always 0.
Evaluation of the rule	Shows the evaluated formula with a status message.

Some rules can be defined to display the block with specific values or parameters. The rules determine whether a configuration option is presented to the operator, based on previous configuration selection. Therefore, it is possible to restrict options. The rule is created in SQL syntax.

Field	Description
Parameter Insert	Parameters and Set Objects that are already defined, are displayed in a selection list. They can be used to create a rule.
Script	The language syntax that the rule is written in. Available options are: • DW Script • SQL formula • JavaScript formula • Java script • VBScript formula • VBScript ***See*** Script Syntax
Input field	Insert the visible rule for the object. All defined parameters and Set-Objects can be used in the configuration.

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	Example: [a] = 5 [color] = red [a] > 5 or [b] = 3 To have a parameter not visible (maybe for special cases): 1 = 2 ***see*** Script Syntax Note: When using the SQL formula, database accesses may reduce the performance of the configurator window.
The **check** button	Check for syntax errors in the entered script.
Flag	– The rule is error free – Warning (default) – Error in rule
Result line	Shows the result of the evaluated rule.
Evaluation of the rule	Shows the evaluated rule with status message.

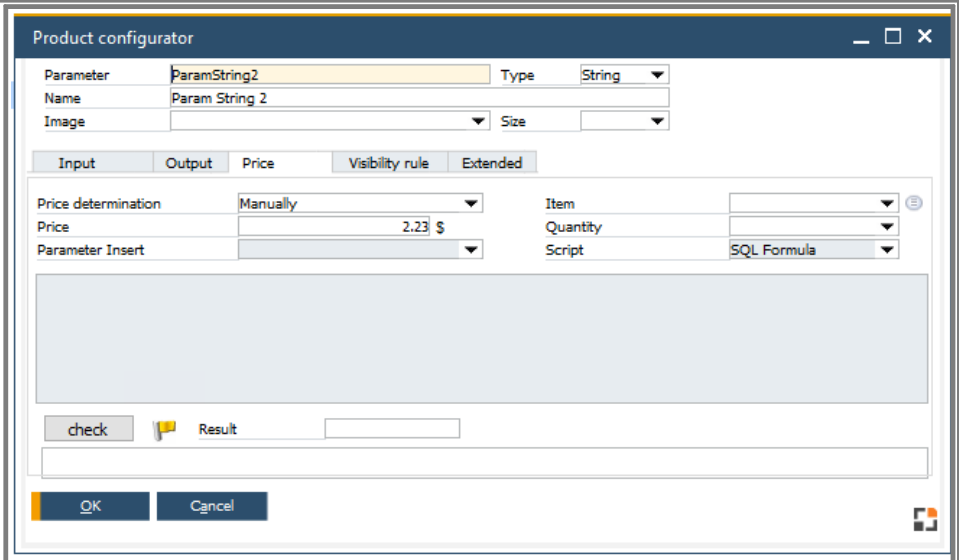
Field	Description
Bitmap	Select the icon for the specific block. By default, Beas

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description
			<table><tr><th>Field</th><th>Description</th></tr><tr><td></td><td>selects a folder icon.</td></tr><tr><td>Color</td><td>Select a display color for the text of the block name.</td></tr></table>
		Selection	A *Selection object* is always allocated to a higher-level parameter. A selection object is displayed as a check box. The higher-level parameter then assumes the value allocated to the selection object when the check box is activated. In our Sofa example we have several selection objects allocated to each parameter. In the image above we can see "Armchair", "Two-seater" and "Three-seater" selection blocks that are available – which appear as check boxes in the test screen. Detailed description and function of the Selection object A selection object always refers to a superordinate parameter. The selection object is displayed as a check box or drop-down list (only in case of an assigned reference). The following fields and properties are available: <table><tr><th>Field</th><th>Description</th></tr><tr><td>Parameter</td><td>Parameter name</td></tr><tr><td>Name</td><td>Designation of parameters</td></tr><tr><td>Picture</td><td>Select picture</td></tr><tr><td>Size</td><td>Definite picture size</td></tr></table> Tab "Output" <table><tr><td>Long text</td><td>Field for additional text</td></tr><tr><td>Text 1, Text 2, Text 3</td><td>Field for additional text</td></tr></table>

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description



artikel_produktkonfigurator_detail

Field	Description
Price determination	Define the price

Value	Description
Formula	Create a formula to calculate the price
Manually	Insert the price manually in the Price field
Price List	Use price from a Price List. - Use default price list, defined in Calculation Header. - Use a special price list of a customer if it is selected from "Default price list" drop-down in the Calculation Header. (previously "Use BP price list" radio box). Supports all price list rules, but unit groups are not supported.

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description
			Field / **Description** **Value** / **Description** If you insert [cprice] in a formula, you see the price determination result by Price List in this parameter. No — Price determination is not activated for this entry. Price — Use the entered price if price determination is set to Manually. The logo of the actual currency (for example "$" or "€") is displayed right of the field. Prices are rounded according to the value defined in **SAP Business One > General Settings > Display > Decimal Places (0..6) > Prices**. Up to 6 decimals can be defined. Item — Define the item to determine the price from a price list Choose the item directly or insert a parameter. For example for the following sofa cushions, there are two parameters: - Cushions Yes/No: whether cushions are needed - Number of quantity: how many cushions are needed In Cushion the price determination is set to No, so it does not affect the price.

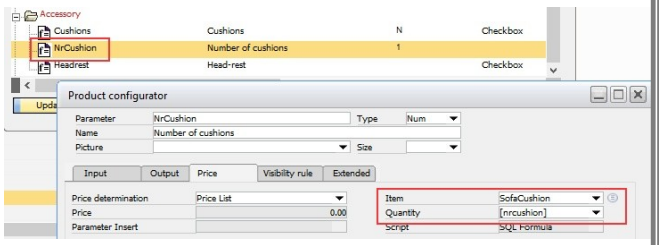
© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description

In Number of Quantity we define the price by a price list.

Price comes from price list from "SofaCushion" item that was added to the Item field.
Quantity comes from the current "Number of Cushions" parameter (nrcushion), so the [nrcushion] parameter is chosen in the Quantity field.



Result:
Beas searches in the price list for the sofa cushion item.

Total Quantity = Quantity from Sales Order / Quotation * Quantity from [nrcushion]
Result = Price from Price List * Quantity from [nrcushion]

Use the Test button in the product configurator definition list to test the setup.

> Note: **Volume discount** can be applied for the item (parameter), but not the parent item.

Limitation: The price value CurrentEntry is not supported in WebApp Terminal 2.1

© 2026 Boyum IT Solutions A/S

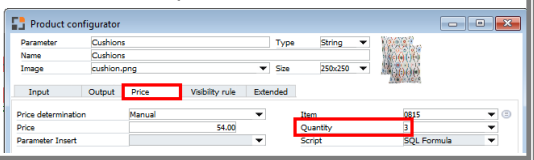
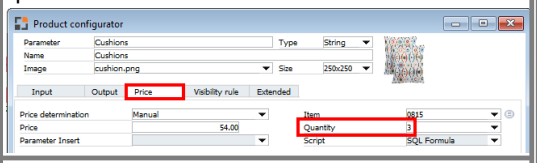
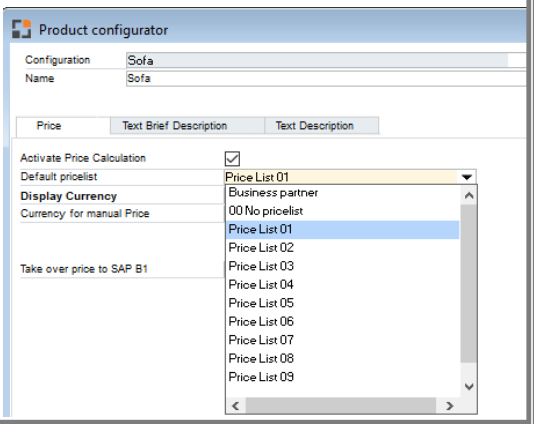
Icon	Boyum Style	Object type	Description

Field	Description
Quantity	Define the quantity for calculation Insert a number manually or use a parameter. Two quantities are calculated: Required quantity for 1 product (cquantity) Required total quantity (calculated quantity * quantity from sales order = ctotalquantity) For an example, ***see*** Item. *beas 9.3 PL 2*
Script / Formula	Calculate the price using a formula If the price is calculated by a formula (Price determination is set to Formula), insert the formula. The Parameter Insert field provides a shortcut to all available parameters. If the "[price]" field is in the formula, Beas determines the price using the price list. ***See*** Script Syntax The following standard parameters are available. Note: Not supported in WEB Configurator. **Parameter Name** / **Description** `cprice` / Price from a price list (only for the Price

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description

Parameter Name	Description
	calculation field)
cpricequ	Calculated quantity for this item (tab Price - field Quantity) 
cpriceto	Calculated quantity (= tab Price - field Quantity) * Quantity from sales order or quotation 
cpriceli	Price list defined in Configuration Header 
currentu	Current user
cardcode	Business partner from the sales order or quotation
cquantit	Quantity from the sales order or quotation

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description

Parameter Name	Description
cdocdate	Date from the sales order in "yyyymmdd" format, example 20220503 for the date 2022/05/03
cshortva	Short variant A-Z from sales order or quotation

The **check** button	Check for syntax errors in the entered script
Flag	– The rule is error free – Warning (default) – Error in rule
Result	Shows the result of the evaluated formula. The result must be a number. **Attention:** Price determination by price list is not working here, [cprice] is always 0.
Evaluation of the rule	Shows the evaluated formula with a status message.

Some rules can be defined to display the block with specific values or parameters. The rules determine whether a configuration option is presented to the operator, based on previous configuration selection. Therefore, it is possible to restrict options. The rule is created in SQL syntax.

Field	Description
Parameter Insert	Parameters and Set Objects that are already defined, are displayed in a selection list. They can be used to create a

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
	rule.
Script	The language syntax that the rule is written in. Available options are: • DW Script • SQL formula • JavaScript formula • Java script • VBScript formula • VBScript ***See*** Script Syntax
Input field	Insert the visible rule for the object. All defined parameters and Set-Objects can be used in the configuration. ***Example:*** [a] = 5 [color] = red [a] > 5 or [b] = 3 To have a parameter not visible (maybe for special cases): 1 = 2 ***see*** Script Syntax Note: When using the SQL formula, database accesses may reduce the performance of the configurator window.
The **check** button	Check for syntax errors in the entered script.
Flag	– The rule is error free

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Icon</th><th>Boyum Style</th><th>Object type</th><th>Description</th></tr>
<tr><td></td><td></td><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td> – Warning (default)
 – Error in rule</td></tr>
<tr><td>Result line</td><td>Shows the result of the evaluated rule.</td></tr>
<tr><td>Evaluation of the rule</td><td>Shows the evaluated rule with status message.</td></tr>
</table>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Bitmap</td><td>Select the icon for the specific block. By default, Beas selects a folder icon.</td></tr>
<tr><td>Color</td><td>Select a display color for the text of the block name.</td></tr>
</table>
</td></tr>
<tr><td> </td><td> </td><td>Set object</td><td>A Set object is a variable to which any values or formulas can be allocated. If a sofa is being configured, a set object so_length could be declared and the formula [numberofseats]*0.9 stored (where numberofseats can be the Name of a parameter or another Set object). This parameter thus acquires the content of numberofseats – i.e. the value 1,2 or 3 in the example – multiplied by 0,
The system can access the content of the set object within the configurator. A calculation by a database query can also come here. For this, the definition/query in the set object must start with "[select" and end with "]". See image above.

e.g. <code>[select "Price" from "ITM1" where "PriceList"='basic price list']</code>

Any variables must also be specified in square brackets in the Select instruction.

⊟ Detailed description and function of the Set object
The following fields and properties are available:</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

Field	Description
Parameter	Object name
Parameter Type	Type of Parameter (String/Number)

The type of parameter

Auto	Beas determines whether the parameter is a number or a string depending on the value. • If the value is a number or "0", Beas interprets this parameter as a number. • If the value is empty or not a number, Beas interprets this parameter as a string. ***Example 1:*** Parameter: `"color"` is `"red"` Formula: `'the color is ' || [color]` HANA SQL: `select 'the color is' || 'red'` -> all ok Formula: `10 + [color]` SQL: `10 + 'red'` -> produce error ***Example 2:*** Parameter: `"color"` is `"5.3"` Formula: `'the color is ' || [color]` HANA SQL: `select 'the color is' || 5.3` -> produce error Formula: `10 + [color]` SQL: `10 + 5.3` -> all ok

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

	The evaluation of a formula is always dependent on the contents of the parameter. All configurations created with *beas 9.2 PL 5 Build 32 or older*, use parameter type "Auto" as standard. Working with Beas system variables or custom defined variables starting with "**e_**", the parameter can be interpreted as a string or number. With the following BeasScript setup the type can be permanently defined as string type, if the value is a Beas variable. This must be executed only once per database or client. `setsetup=config_default_e_type=c`
String	This parameter type allows a string. If working with formulas, Beas inserts a ' (single quotation mark) at the left and right side of the parameter. If you create a new parameter, the string type is the default option. ***Example 1:*** Parameter: `"color"` is `"red"` Formula: `'the color is ' || [color] (HANA SQL)` MS SQL: `select 'the color is' + N'red'` HANA SQL: `select 'the color is ' || ' red'`

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Object type	Description

	Example 2: Parameter: `"color_number"` is `"5,3"` Formula: `'10' + [color_number]` MS SQL: `'10' + '5,3'` -> all ok Formula: `'the color is ' + [color]` DataWindow Syntax: `'the color is' + 'red'`
Number	This parameter type allows numbers only. If the content is not a number, Beas replaces it with “0”. The decimal delimiter is based on what it is defined in the system, but Beas internally replaces it with a decimal point. ***Example:*** Parameter: `"color_number"` is `"5,3"` (Regional setting is Germany) Formula: `[color_number] * 3` SQL: `5.3 * 3`

If you use a parameter both as a string or numeric value, then it is advantageous to specify this directly in the formula.

String formula: `'color is ' || [color,dbstring]`
Number formula: `if [color_number,dbnum] > 10 then 1 else 100 end`

Insert Parameter	Display all already defined parameters and set-objects. Makes easier to generate the description text for field below.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Icon</th><th>Boyum Style</th><th>Object type</th><th>Description</th></tr>
<tr><td></td><td></td><td></td><td>
<table>
<tr><td>Script</td><td>Setup used syntax to define text of short designation
(SQL-Formula, JavaScript-Form, Java-Script, VBScript Formel, VBScript, DW Script)
See Script Syntax

Note:
When using the SQL formula, database accesses may reduce the performance in the configurator window.</td></tr>
<tr><td>"Check"-Button</td><td>Used to check the formula, based on the set syntax</td></tr>
<tr><td>Flag</td><td>- Rule is error free
- Warning (default)
- Error in rule</td></tr>
<tr><td>Result line</td><td>shows the result of the evaluated formula</td></tr>
<tr><td>Evaluation of the formula</td><td>shows the evaluated rule with status message</td></tr>
</table>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Bitmap</td><td>Select the icon for the specific block. By default, Beas selects a folder icon.</td></tr>
<tr><td>Color</td><td>Select a display color for the text of the block name.</td></tr>
</table>
</td></tr>
<tr><td></td><td></td><td>Picture</td><td>An Info, Parameter and Selection can be assigned to a Picture. This is then displayed accordingly in the detail area.</td></tr>
</table>

Script Syntax

© 2026 Boyum IT Solutions A/S

Different programming languages can be used in configurator Scripts.
All existing parameter, which has been defined in the configurator can be accessed via placeholder.

SQL Formula is set by default!

Please note:
Using the SQL formula, database access may reduce processing speed in the Configurator window.

SQL Formula

Simplified use of SQL syntax only specifies what should be returned.
The system creates the following syntax:

```
select <your script> from "BEAS_DUMMY"
```

Example: Input: `3.5 * 4`
It is executed: `select 3.5 * 4 from "BEAS_DUMMY"`

If an information from the product configurator is needed (from a parameter), these are enclosed in square brackets.

Example: `[sofa_width] * 4`
If the length is 300, following will be executed: `select 300 * 4 from "BEAS_DUMMY"`

Please note:
Since there are problems with different country settings (Database and/or Windows system)
with decimal numbers and date definitions, should be used here with the formatting of parameters/set-objects (similar to Beas-Script) *beas 9.2 PL: 05 (5.13)*

SQL conversions:
For numeric values [value,**num**] or date [date,**dbdate**] or string [stringparameter,dbstring]

© 2026 Boyum IT Solutions A/S

Example:

```
[sofa_length,num] * 4
```
(with **sofa_length**: 200,5)

The whole SQL-instruction can be set in squared brackets if an extended SQL-instruction is necessary:

```
[select your command]
```

Example: Return UDF-Field: U_MaterialColor

```
[select "U_MaterialColor" from "OITM" where
"ItemCode"=[my_itemcode,dbstring]]
```

Important: Do not forget the quotation marks at placeholder if it is about a reference

Example: Return of a price of a price list

```
[select "ITM1"."Price"
from "ITM1"
 LEFT OUTER JOIN "OPLN" on "ITM1"."PriceList"="OPLN"."ListNum"
 where "ITM1"."PriceList"="OPLN"."ListNum"
 and "OPLN"."ListName"=[cpricelist,dbstring]
 and "ITM1"."ItemCode"='stoff_blau']
```

Example: Visibility Rule

A selection element of a list should only be displayed if the parameter "cushions" has the content "Y":

```
[cushions] = 'Y'
```

Example: Assign a value (or text) to a Set object

If the content of the parameter "headrest" has the content "Y" then assign "Y", otherwise "N":

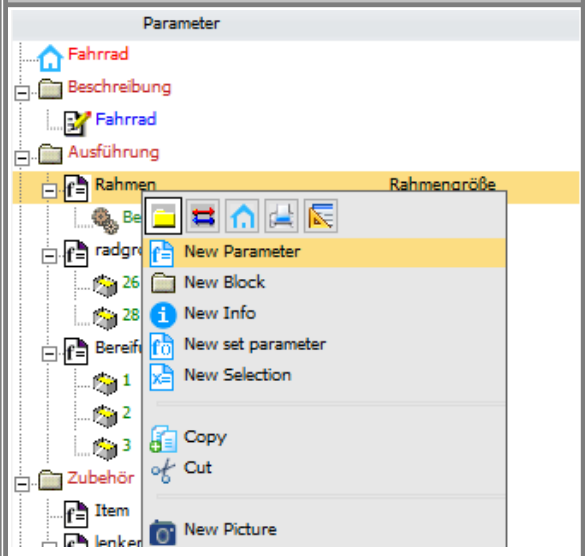
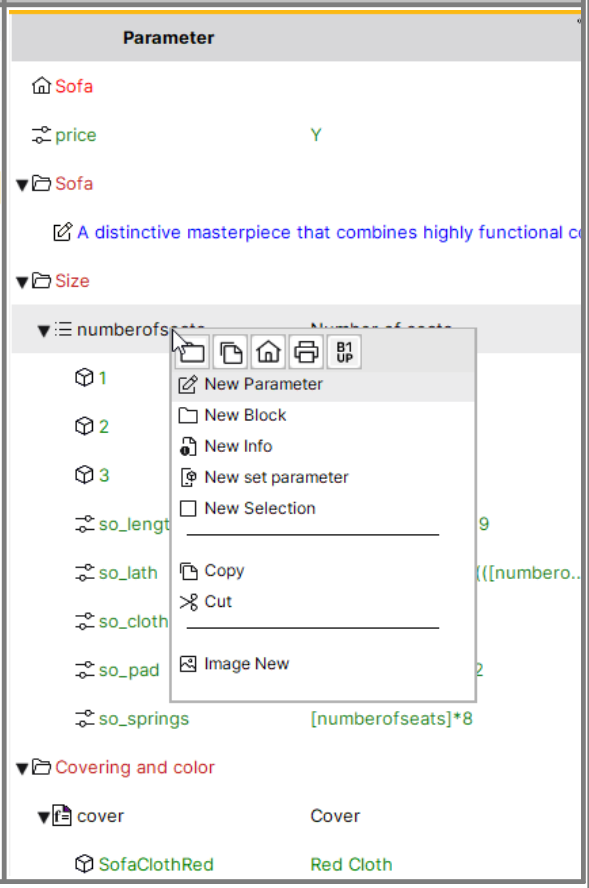
© 2026 Boyum IT Solutions A/S

```
case when [headrest]='Y' then 'Y' else 'N' end
```

Product configuration process:

The procedure for creating a configurator for a product (item) is as follows:

Right-click on an existing object (or the empty configurator structure) to open a pop-up menu containing the objects to be added.

Traditional Style	Boyum Style
	

Picture: Pop-up menu

Only the objects that can be added to the selected object are displayed. You can now select which object should be added; a new window opens in which you can define the properties of the object.

The system can access the "Set objects" and "Parameter" from Bill of materials positions and routing positions.

The Bill of materials and routings can thus be customized independently of variants.

© 2026 Boyum IT Solutions A/S

Note:

The names of the parameter and set-objects must be unique in the configuration structure. Not case sensitive.

The system can access the *set-objects* and *Parameters* from Bill of materials positions and routing positions
The Bill of materials and routings can thus be customized independently of variants.

Please note that for Parameters and Set-Objects, the following
reserved names cannot be used:

- cpreis
- cprice
- currentuser
- cpreisliste
- cpricelist
- crabatt
- cdiscount

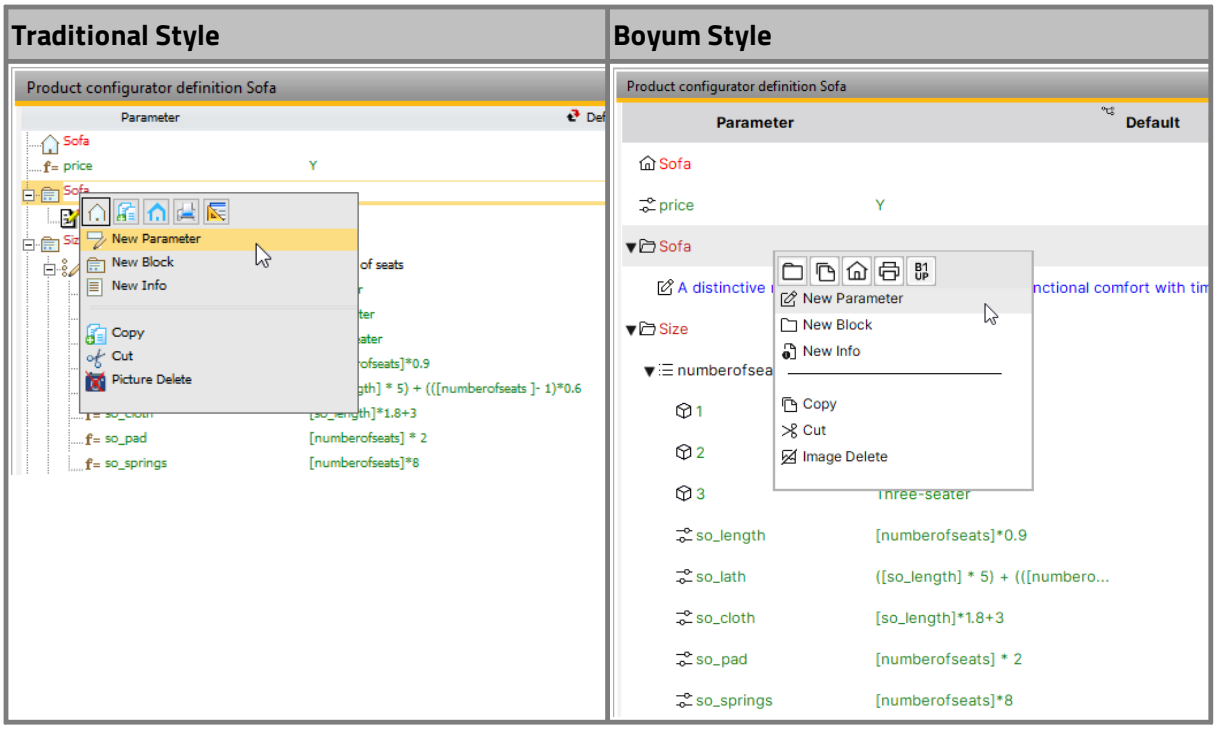
It is similarly not allowed to use "**e_**" at the beginning of a Parameters or Set-Objects, because external variables start with it.

8.14.2.1.7 Copying objects

In the Configuration Structure window, it is also possible e.g. to copy, cut or insert objects.

These functions can be accessed via the "right-click" menu. (/ : 1. Option in menu line. Default).

© 2026 Boyum IT Solutions A/S



/ **Copy**:

Copying of selected parameter or selection into clipboard.

/ **Cut** :

Transfer/cut of selected parameter or selection into clipboard.

/ **Insert**:

Insert of selected parameter or selection from clipboard to actual position.

8.14.2.1.7.1 Copying within the configuration structure

The "right-click" menu of the configuration structure under / includes the options **Copy**, **Cut** and **Insert:**

Icons

© 2026 Boyum IT Solutions A/S

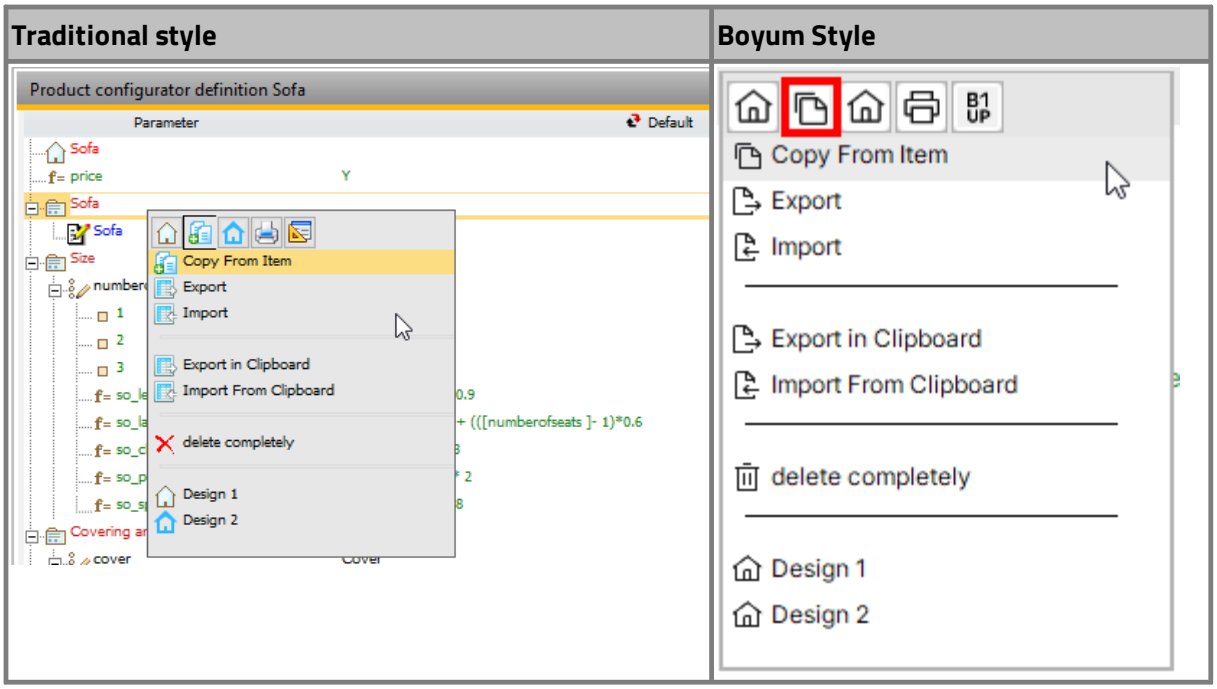
Function	Traditional style	Boyum Style	Description	
Copy			Copies the current block or line (e.g. set object, selection) to the clipboard.	
Cut			Removes the current block or line (e.g. set object, selection) and places it in the clipboard.	
Insert			Re-inserts the clipboard contents below the current line.	

8.14.2.1.7.2 Copy objects of other items

The "right-click" menu of the configuration structure under / includes the options **Copy from item.**

This gives you the option of copying any objects or all definitions from configurations of other items.

© 2026 Boyum IT Solutions A/S



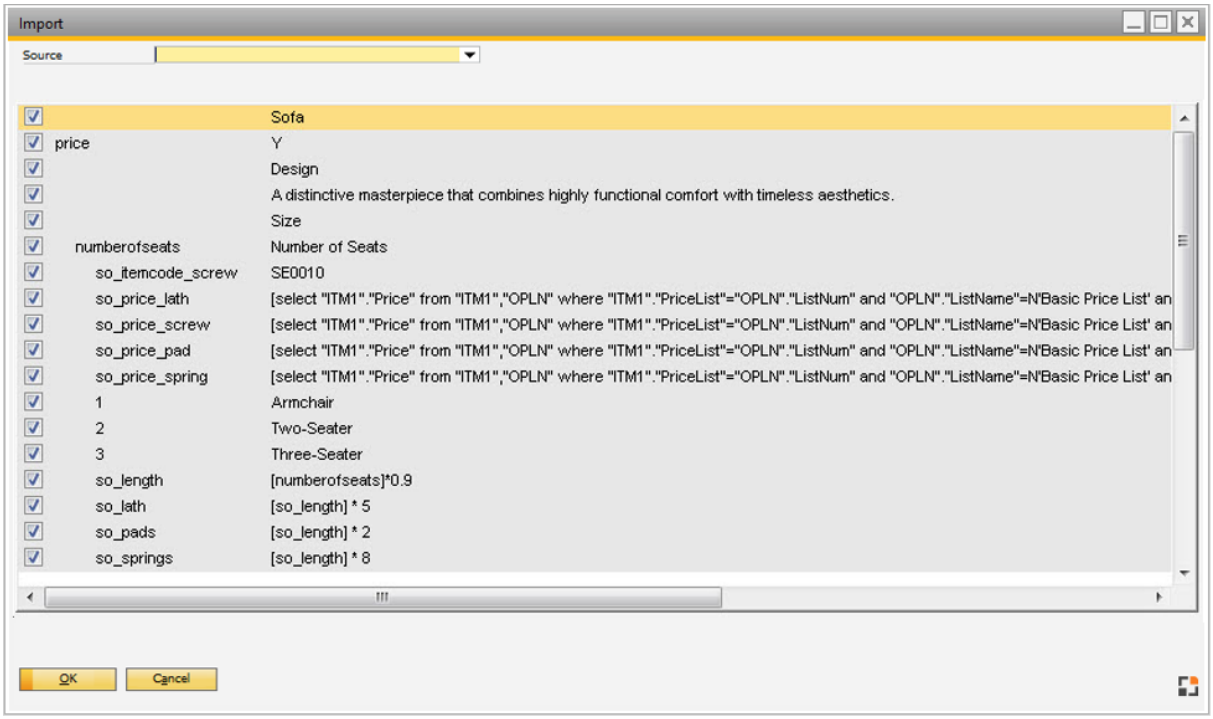
/ : **Copy from Item**

Copies the coding from this item.

To do this, a new window opens to allow you to select a possible item from a list. Only items that have configurations are displayed.

After selection, all objects of the selected configuration are displayed in another window. You can now select the required objects for transfer. Click on the **OK** button to transfer these objects.

© 2026 Boyum IT Solutions A/S



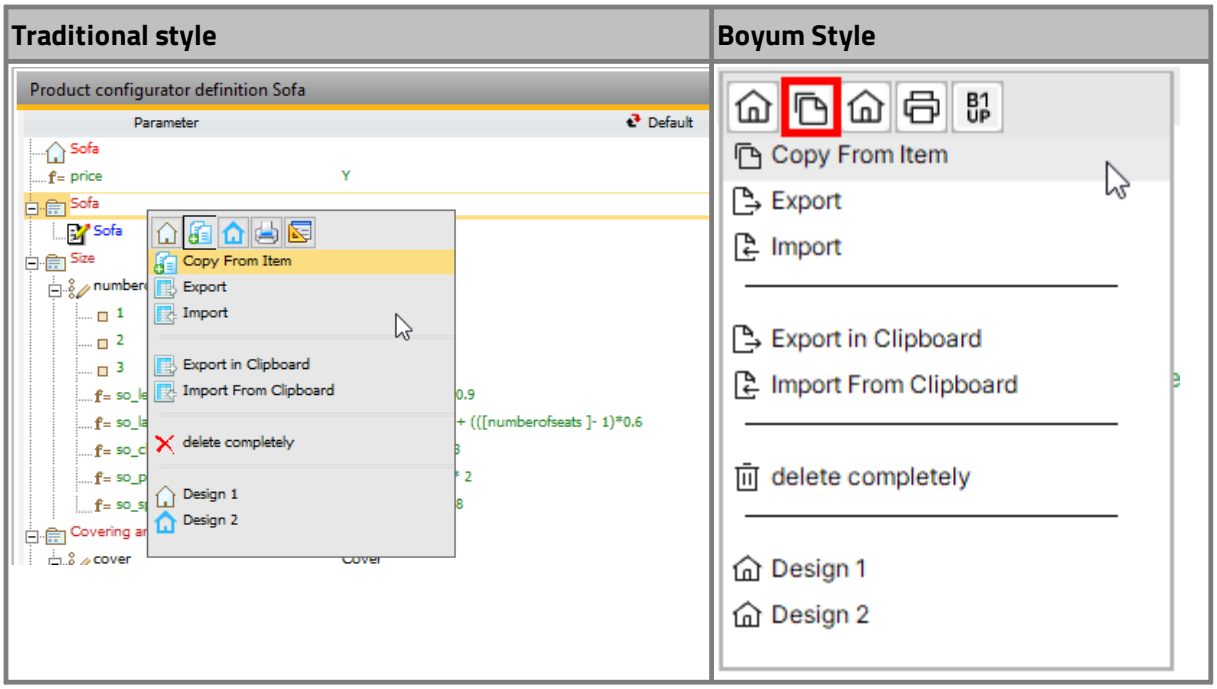
Window artikel_produktkonfigurator_export.psr

8.14.2.1.7.3 Exporting and importing objects

The "right-click" menu of the configuration structure under / includes the options **Export** and **Import.**

This allows you to export selected objects and e.g. insert these in other configurations.

© 2026 Boyum IT Solutions A/S



/ : **Export**

Exports all objects of the current item as a file to the project directory.

/ **: Import**

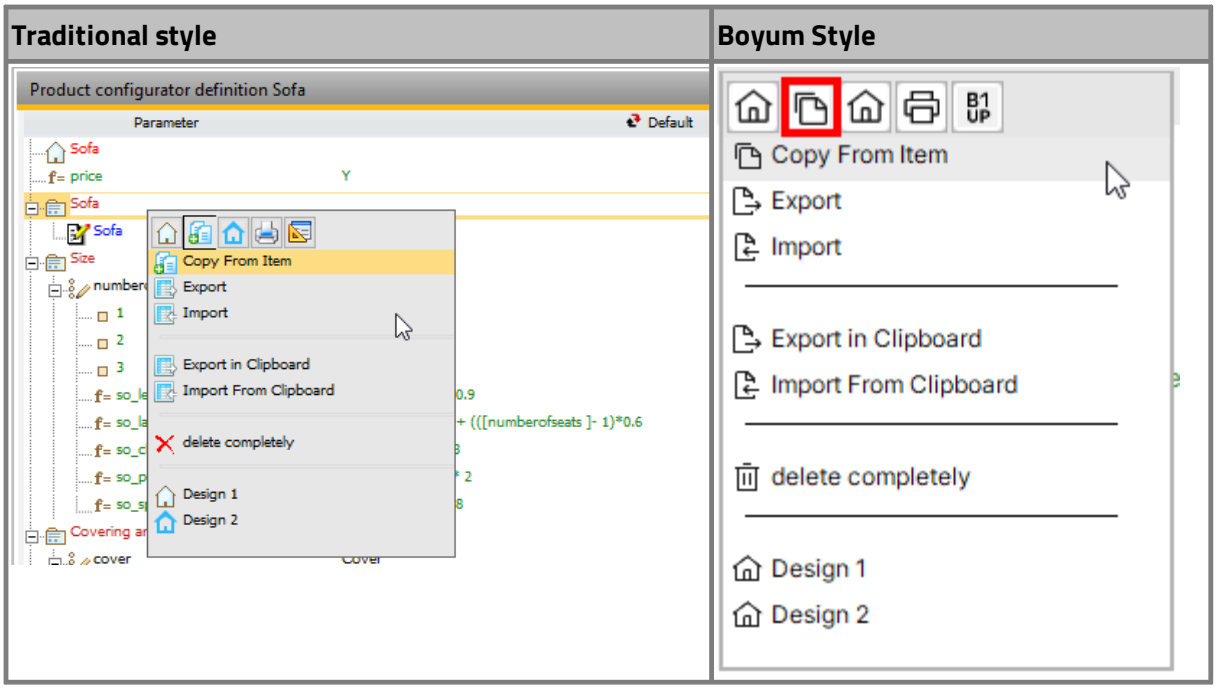
Possibility of importing individual items or all items from a selectable export file into the current configuration. A selection window opens in which you can select the required objects.

8.14.2.1.7.4 Exporting and importing object via clipboard

The "right-click" menu of the configuration structure under / includes the options **Export** and **Import in clipboard.**

This allows you to export selected objects and e.g. insert these in other configurations.

© 2026 Boyum IT Solutions A/S



: Export in Clipboard

Exports all objects of the current item as a file to the project directory.

: Import From Clipboard

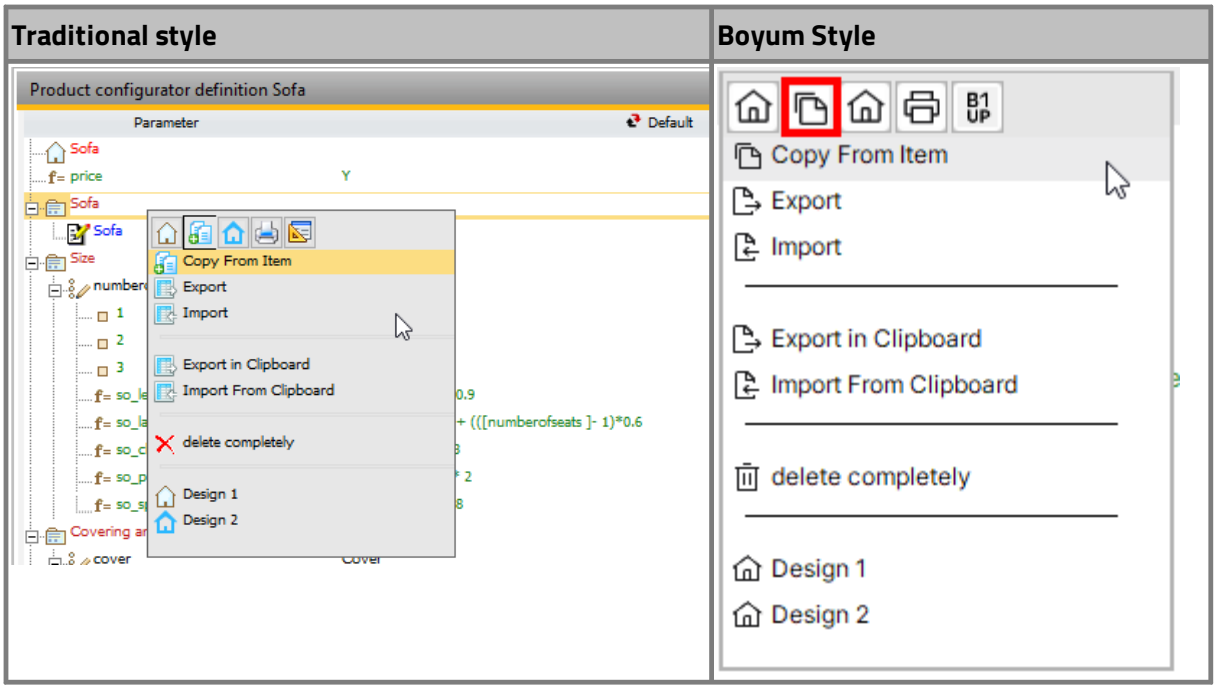
Possibility of importing individual items or all items from a selectable export file into the current configuration. A selection window opens in which you select the required objects.

8.14.2.1.7.5 Deletion of all objects

The "right-click" menu of the configuration structure under / includes the options **Delete completely.**

This allows you to export selected objects and e.g. insert these in other configurations.

© 2026 Boyum IT Solutions A/S



: Delete completely

Deletes the configuration coding of this item.

8.14.2.1.8 Script Syntax

Several programming languages can be used in the Product Configurator script fields.
Existing parameter, which have already been defined in the configurator, can be easily accessed using a placeholder.

The SQL formula syntax is set by default.

Note: When using the SQL formula, database accesses may reduce the performance of the configurator window.

SQL Formula

This simplified use of the SQL syntax only specifies what should be returned.
The system then creates the following syntax:

```
select <your script> from "BEAS_DUMMY"
```

© 2026 Boyum IT Solutions A/S

Example: Input: `3.5 * 4`

It is executed: `select 3.5 * 4 from "BEAS_DUMMY"`

If information of a product configurator parameter is required, enclose the parameter in square brackets.

Example: `[sofa_width] * 4`

If the width is 300, following is executed: `select 300 * 4 from "BEAS_DUMMY"`

> Note:
>
> Since different country settings of the database or Windows system can cause issues with decimal numbers and date definitions, these must be used with the parameters/set-objects (similar to BeasScript) formatting Beas 9.2 PL: 05 (5.13).

SQL conversions can be used for:

numeric values [value,**num**] or date [date,**dbdate**] or string [stringparameter,dbstring]

Example:

`[sofa_length,num] * 4` (with **sofa_length**: 200,5)

You can insert complete sql statements

Example: Return UDF-Field: `U_MaterialColor`

```
select "U_MaterialColor" from "OITM" where "ItemCode"=[my_itemcode,dbstring]
```

Important: Do not forget the quotation marks at placeholder if it is about a reference.

Example: Visibility Rule

A selection element of a list should only be displayed if the parameter "cushions" has the content "Y":

```
[cushions] = 'Y'
```

Example: Assign a value (or text) to a Set object

If the content of the parameter "headrest" has the content "Y" then assign "Y", otherwise "N":

```
case when [headrest]='Y' then 'Y' else 'N' end
```

HANA

You must always define a table in HANA.

Without defining a table, the system automatically inserts the keyword ' `from "BEAS_DUMMY"` '

© 2026 Boyum IT Solutions A/S

If you work with complete SQL statements or with sub-select commands, you must define the Table.

Note: BeasScript placeholder (<placeholder>) is not supported.

Examples:

sofa_width=300, numeric value

Example	Executed SQL command
`[sofa_width] * 4`	`select 300 * 4 from "BEAS_DUMMY"`
`select [sofa_width] * 4`	`select 300 * 4 from "BEAS_DUMMY"`
`select "ItemName" from "OITM" where "ItemCode"='1111'`	`select "ItemName" from "OITM" where "ItemCode"='1111'` the system find the keyword "from" inside the sql statement and don't insert the "BEAS_DUMMY"
`(select "ItemName" from "OITM" where "ItemCode"='1111') || 'hello'`	`select (select "ItemName" from "OITM" where "ItemCode"='1111') || 'hello'` Open bracket without closing bracket creates a sub-select command. The system finds the keyword "from" inside the sql statement and does not insert the "BEAS_DUMMY" This is working in MSSQL, but not in HANA, because we miss table "BEAS_DUMMY" outside the sub-select command.
`select "ItemName" || 'hello' from "OITM" where "ItemCode"='1111'`	`select "ItemName" || 'hello' from "OITM" where "ItemCode"='1111'` It is working in Hana and MSSQL.

- JavaScript Formula

Example: Visibility Rule.

A selection element of a list should only be displayed if the parameter "cushions" has the content "Y":

```
[cushions] == 'Y'
```

© 2026 Boyum IT Solutions A/S

JavaScript

Example: Visibility Rule.

A selection element of a list should only be displayed if the parameter "cushions" has the content "Y":

```
result = [cushions] == 'Y'
```

Example: Check the contents of a parameter.

Checking if you need a headrest for an armchair (number of seats = 1):

```
if ([numberofseats] == "2" || [numberofseats] == "3")
    result=1
 else
    result=-1;
```

VBScript-Formel

Example: Visibility Rule.

A selection element of a list should only be displayed if the parameter "cushions" has the content "Y":

```
[cushions] = "Y"
```

VBScript

Example: Visibility Rule.

A selection element of a list should only be displayed if the parameter "cushions" has the content "Y":

```
if [cushions] = 'Y' then
    result=1
 else
    result=-1
end if
```

DW Syntax

Datawindow Syntax.

This is the most powerful scripting language to use in the visibility rules and set objects.

(from Beas 9.3-PL0)

Example: Visibility Rule.

A selection element of a list should only be displayed if the parameter "cushions" has the content "Y":

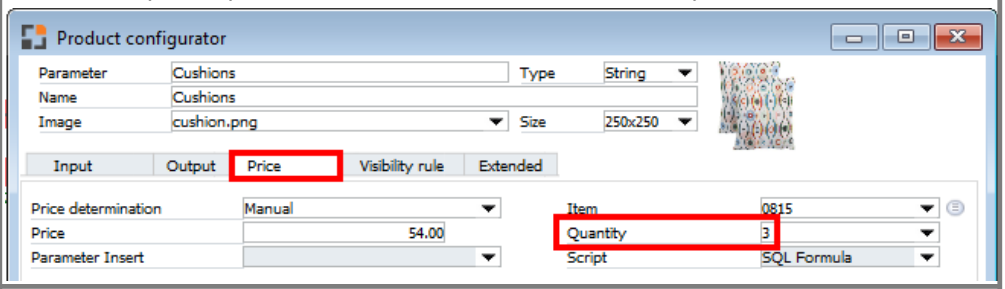
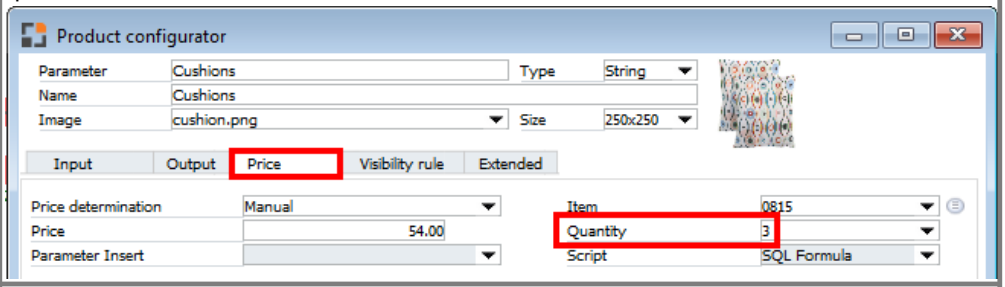
```
'[cushions]' = 'Y'
```

© 2026 Boyum IT Solutions A/S

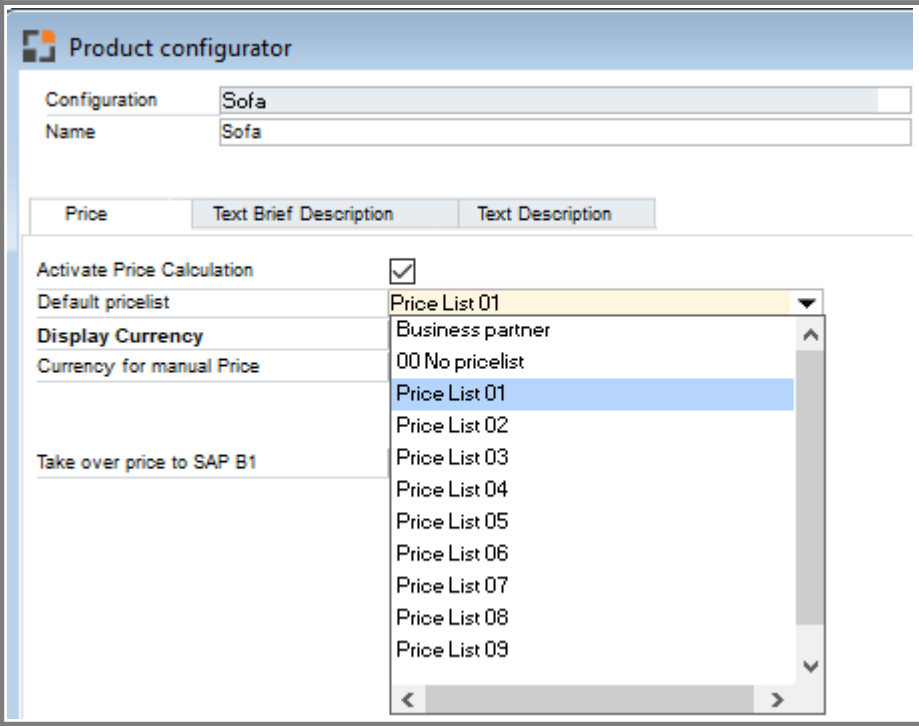
See Datawindow-Syntax

The following standard parameters are available.

Note: Not supported in WEB Configurator.

Parameter Name	Description
`cprice`	Price from a price list (only for the Price calculation field)
`cpricequantity`	Calculated quantity for this item (tab Price - field Quantity) 
`cpricetotalquant`	Calculated quantity (= tab Price - field Quantity) * Quantity from sales order or quotation 
`cpricelist`	Price list defined in Configuration Header

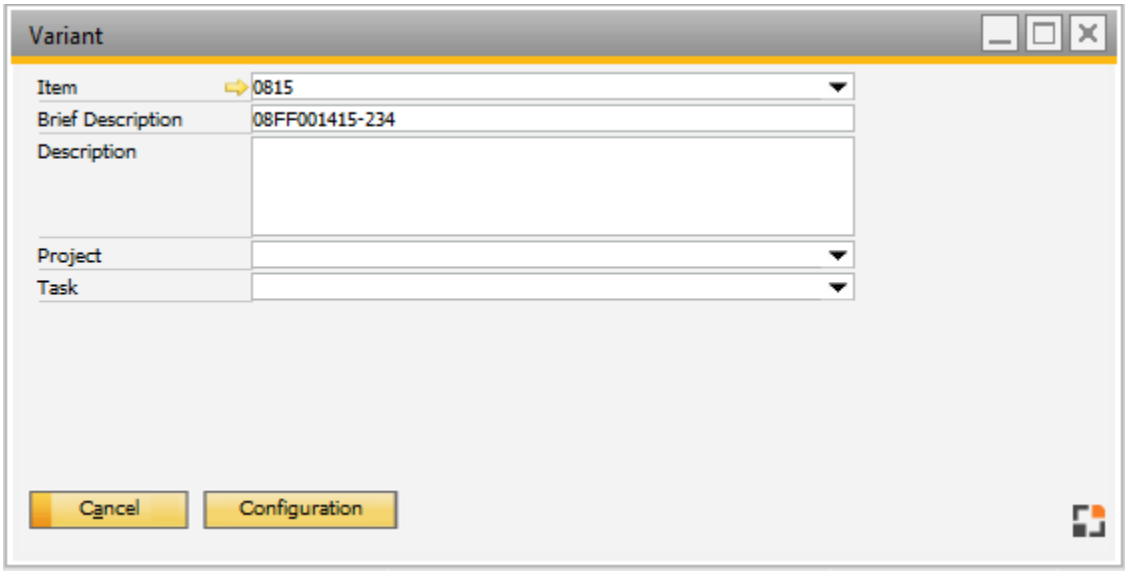
© 2026 Boyum IT Solutions A/S

Parameter Name	Description
	
`currentuser`	Current user
`cardcode`	Business partner from the sales order or quotation
`cquantity`	Quantity from the sales order or quotation
`cdocdate`	Date from the sales order in "yyyymmdd" format, example 20220503 for the date 2022/05/03
`cshortvariant`	Short variant A-Z from sales order or quotation

8.14.2.2 Create a new configuration

An additional variant for the product configurator can be created and assigned to a project or a task. To save the variant, call the product configurator.

© 2026 Boyum IT Solutions A/S



Window caft_variante_kopf.psr

Field Descriptions

Field	Meaning
Item	Select items to configure.
Brief Description	Brief Description.
Description	Description.
Project	The created configuration is firmly assigned to a project. Note: In this case it is not checked whether the configuration exists already. The setting **Configuration wizard > Production > Product configurator > Recognize double entries** is ignored. ***see*** Settings - Product configurator
Task	Firm link to a task.

Button

Configuration: open the product configurator for this variant.

see

Configuration wizard - Production - Product configurator

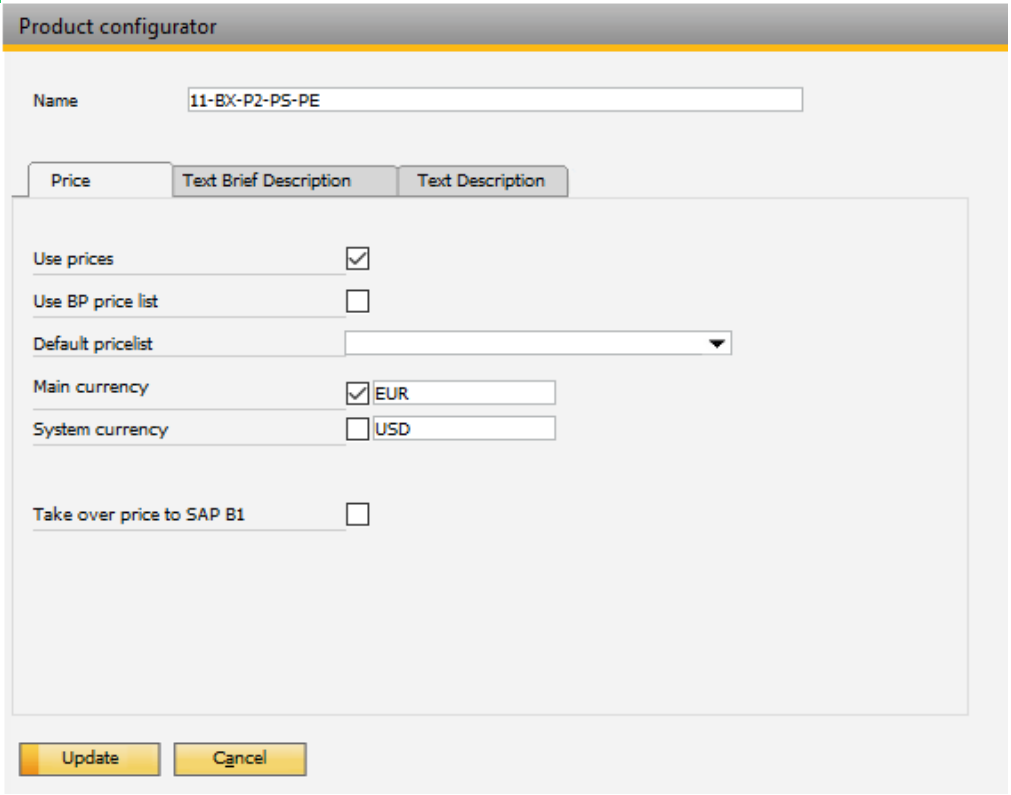
© 2026 Boyum IT Solutions A/S

Price tab
Text Brief Description and Text Description tab

8.14.2.2.1 Price

In this tab you can provide price-related settings for the configuration.

PATH: Production > Product Configurator > Product Configurator Definition > double-click Header



Window artikel_produktkonfigurator_global.psr

How to link the Unit Price in a Sales Order:

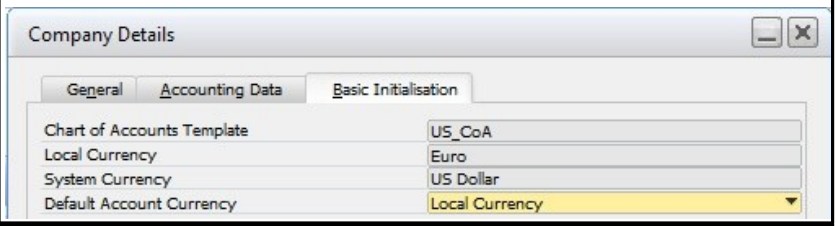
Field descriptions

Field	Description
Activate Price Calculation	Check box that indicates to Beas that the prices need to be generated. In the product configuration prices are used and displayed in the configuration structure. When this option is checked, other fields in the tab appear.
Default price list	Select default price list for the configuration.

© 2026 Boyum IT Solutions A/S

Field	Description
	Business Partner - price list. This selection is used to generate prices based on the price list from the business partner defined in SAP. Prices can be chosen: (from sales order or quotation) - agreements - special price list - customer price list If no price is defined, the default price list is used. Support: - Multi currency price list - Period Discount - Volume Discount - Customer Price List, Special Price List - Agreements The date for Period discount is the delivery date from Sales Order or Quotation No support of unit groups The configurator does not support the global discount from the customer, because SAP inserts this discount in the Quotation or Sales Order at the end for the total sum. For more information ***see*** Parameteter – Tab Price
Use total BP discount	The defined total discount from business partner master data is included in the calculation. Only available if Use BP price list is enabled.
Default Price list	Define the price list for price determination

© 2026 Boyum IT Solutions A/S

Field	Description
	Select a price list as a default to calculate prices. If the field is empty, with no price list, Beas calculates the price regardless of a price list linked to a business partner. Support: - Multicurrency price list - Period Discount - Volume Discount The date for period discount is the delivery date from the Sales Order or Quotation. For more information ***see*** Parameteter – Tab Price.
Display currency	Define the currency to be used. This can be the defined main, system or business partner currency. 
Currency for manual Price	Select the currency for all the manually written prices.
Take over price to SAP Business One	☐ After finishing the configuration, the determined price of the current variant is transferred to the SAP Business One form. This filed enables Beas to calculate the price with the product configurator functionality and then transfer the calculated price into the sales document from SAP Business One. By enabling this field, the user creates a sales order. In the sales order the item to be configured is included. After the configuration is finished, the price calculated by the product configurator is transferred to the sales order.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>No</td><td>No action</td></tr>
<tr><td>Field Price</td><td>Write the calculated price into the sales document "Unit price" field.

Limitation:
This field must be visible and editable.
Beas does not write the currency.
beas 9.3 PL 3</td></tr>
<tr><td>Script</td><td>Create a script to write the information to the SAP document.

(An additional script in the project folder is needed)
Script-for data transfer
To transfer the price or description from the configurator into the SAP Business One form "Customer order" or "Quotation" a script file is used.
This file needs to be created.

Adjust only red lines in order to ensure a correct function.
The created files must be stored in the Beas Project-folder.

− Script file
Name of the file: "product_configurator.src".
The following structure is required:

//***
//* beas product configurator *
//* *
//* Interface definitions for return value *
//* *
//* (c) Boyum IT Solutions GmbH *
//***
//
//*** initialization of the interface ***
function pk_init</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Value / **Description**

```
 // please, do not change this function part !!!!
 setvar=v_pk_init=Y
end
//
//*** transfer the TOTAL PRICE from the configurator
***
//*** into column 14 of actual line (changeable)          ***
//*** to SAP B1 form SALES ORDER or QUOTATION
      ***
function write_price
  // the PRICE is in the beas variable "str_parm.c_parm4"
  parent=item=38=col=14=value=<str_parm.c_parm4>
end
//
//*** transfer the BRIEF DESCRIPTION from the
configurator ***
//*** into column 163 of actual line (changeable)         ***
//*** to SAP B1 form SALES ORDER or QUOTATION
      ***
function write_b_descr
  // BRIEF DESCRIPTION is in the beas variable
"str_parm.s_parm4"
  parent=item=38=col=163=string=<str_parm.s_parm4>
end
//
//*** transfer the DESCRIPTION from the configurator
***
//*** into column U_item_descr of actual line             ***
//*** (changeable)                                        ***
//*** to SAP B1 form SALES ORDER or QUOTATION
      ***
function write_descr
  // the DESCRIPTION is in the beas variable
"str_parm.s_parm5"
  parent=item=38=col=U_item_descr=string=<str_parm.
s_parm5>
end
```

Explanation of assignments:

parent=item=38=col=14=value=<str_parm.c_parm4>

<str_parm.c_parm4> : Parameter with the current transfer value (in this case the price)

col=14 : Field 14 (single price) in SAP Business One-form

© 2026 Boyum IT Solutions A/S

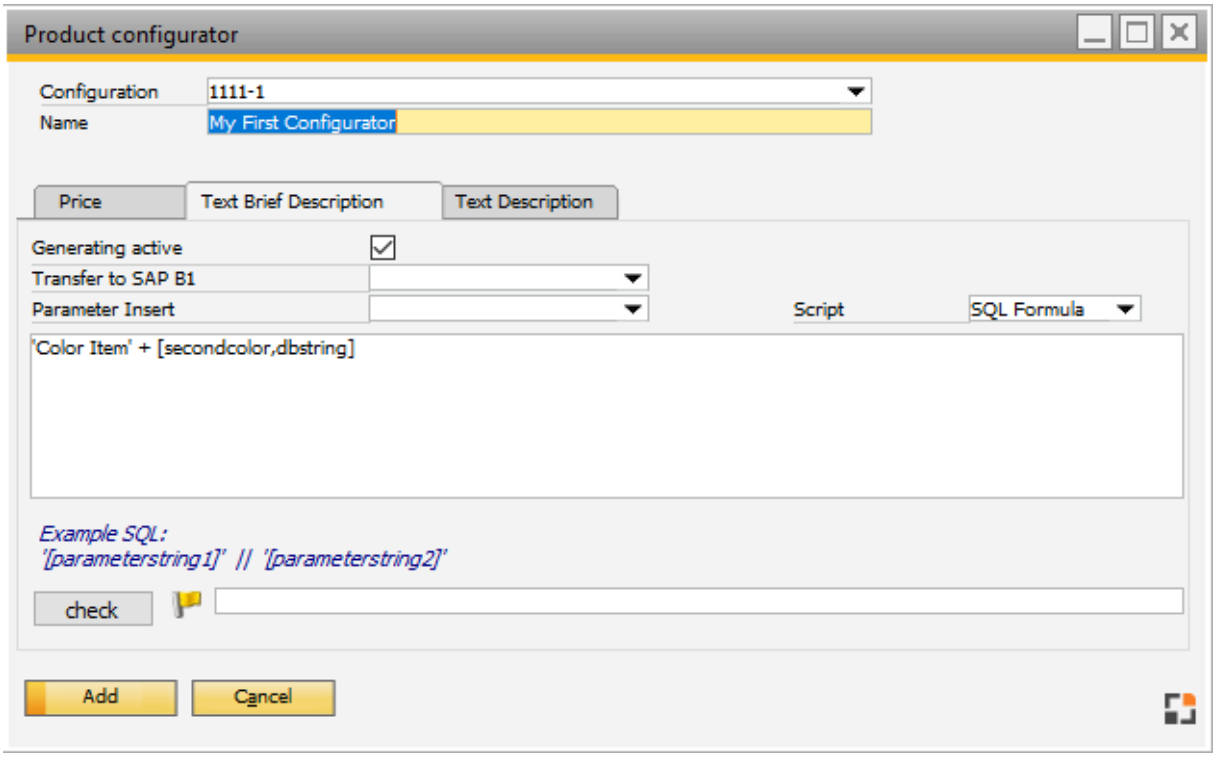
Field	Description
	Value / **Description** col=U_item_descr : UD-Field in SAP Business One-form (Selection only possible for "use prices") In *beas 9.3 PL02* the following selections are available: No: No data transfer. Script: Use the rpovided script (script for data transfer). Price field: Save this in the SAP Business One Price field. Note: Beas inserts this information in field 14. **Limitation:** This field must be visible and editable. Beas does not write the currency.

8.14.2.2.2 Text Brief Description

In these two tabs you can provide further Description settings for the configuration

PATH: Production > Product Configurator > Product Configurator Definition > double-click Header

© 2026 Boyum IT Solutions A/S



Window artikel_produktkonfigurator_global.psr

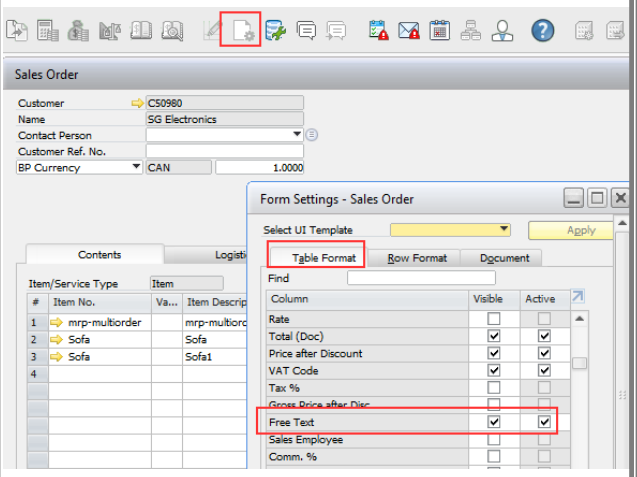
How to link the Text Brief Description and Text Description in a Sales Order:

Field descriptions

Field	Description
Transfer to SAP Business One	Transfer short description from the detail area in the definition part of the configurator to the SAP Business One form. This option is usable if the following applies: • A change was made in configuration window • The document line is not closed **Value** / **Description** No / No action. Column Item Description / Only available in the Text Brief Description tab.

© 2026 Boyum IT Solutions A/S

Field	Description

Value	Description
	Write the brief description into the current document line in the item description field. Information: It is not possible to change this field directly in SAP Business One. Beas uses the "sendkey" function to achieve this. On limitations, see the SAP SDK documentation sendkey function. This field must be visible and editable. *beas 9.3 PL 2*
Column Free Text	Only available in the Text Description tab. Write the text description into the current document line in the Free Text field. Information: This field must be visible and editable. Activate this field in the document form settings Table Format tab to be visible.  *beas 9.3 PL 2*

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Value</th><th>Description</th></tr>
<tr><td>Script</td><td>An additional script in project folder is required for this function.
Script-for data transfer.</td></tr>
</table>
</td></tr>
<tr><td>Generating active</td><td>Defines whether the description is created from existing parameters, Set-Objects and so on are as defined in the field below.
If a work order is created with this configuration, Beas uses the generated brief description from this configuration. See Work order position.</td></tr>
<tr><td>Parameter Insert</td><td>A drop-down list of all defined parameters and set-objects. It can be used to insert the chosen parameter or object into the description.</td></tr>
<tr><td>Script</td><td>Chose the language used to define text descriptions.
The following language syntax types are available:
• SQL-Formula
• JavaScript-Formula
• Java-Script
• VBScript Formula
• VBScript
• DW Script
• Beas Script
See Script Syntax</td></tr>
<tr><td>The check button</td><td>Check for syntax errors in the entered script.</td></tr>
<tr><td>Entry field</td><td>The links to parameters are entered in this field. All configurations and set-objects can be used.
See Script Syntax.</td></tr>
</table>

8.14.3 External configurator

Beas allows to connect external configurators / configurators created with customized extensions. BOMs can be generated and tables can be created which will be considered by Beas.

Available tables:

© 2026 Boyum IT Solutions A/S

beas_config_header	Description of the configuration
beas_config_stl	BoM
beas_config_apl	Routing
beas_config_parameter	Parameter

key field is column "vri".
The external configurator works in parallel to the product configurator.
Link to the configuration to be used in sales order is established via column **rdr1.U_beas_vri**

Creating work orders or Precalculations, in the field "configuration" not only the configuration can be accessed but also the external configurations (beas_config_header).

To use the configurator, activate it in Configuration wizard – Production – Product configurator – External configurator

Configurations can be created manually via **Variant production > external configurator:**
1. Create a new configuration or edit an existing configuration (Table **beas_config_header**)
2. Create or edit existing BOMs and routings (**beas_config_stl**, **beas_config_apl**)

Multi-level BoMs
Multi-level BoMs can be created: In field "itemcode" the item number of the superordinated item is required. Connection via item number (**beas_config_stl.art1_id** and **beas_config_stl.itemcode**)
That is why assemblies may occur only once in a BoM.
In the view, there is a button **Structure** to register multi level BoMs.

Note:
This works in Precalculation and work order creation. Tools, alternative and parallel routings are not considered.

Field	Meaning
Configuration	Variant Number of the configuration.
Item	Item code.
Info	Description of Configuration.

Button	Meaning
Edit	The selected configuration opens the Edit Window.

© 2026 Boyum IT Solutions A/S

Button	Meaning
New	Creates a new product configuration.
Delete	Delete the actual selected configuration.

8.14.3.1 Create new configuration

External configurations can be edited or new created here. Under BOM tab you can create or change BOM and routing.

PATH: Production > Product Configurator > External Configurator.

Tab "Master Data"

Field	Description
Configuration	No of variant/configuration
Item	Item number
Info	Description

Tab "Bill of Materials"

Field	Description
Pos	Position
Item	Item number
Quantity	Quantity
Quantity per	Quantity per
Scrap	Scrap quantity
Length	Length
Width	Width
Height	Height
Additional text	Additional text
Warehouse	Warehouse ID
Info	Description
Udf1 - Udf4	Use-defined fields

© 2026 Boyum IT Solutions A/S

Tab "Routing"

Field	Description
Pos	Position
Operation	Operation
Cost center	Cost center
Ressource	Resource
Activity	Activity
Setup time	Setup time
Setup time 2	Setup time 2
Mach+labor time	Mach+labor time
Use	Use factor
Amount	Amount
Quantity per	Quantity per
Time per	Timer per
QC	QC
Udf1 - Udf4	User-defined fields

8.14.4 Web Product Configurator Setup

Here you can find filtering and document related settings for the Web Product Configurator.

List of Products

Documents

PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator

8.14.4.1 List of Products

Here you can perform display and filtering settings for Web Configurator apps.

Note: The Web Product Configurator must be reloaded after you modify a parameter to apply the changes.

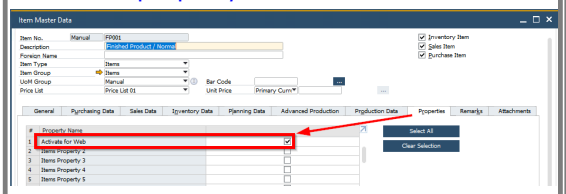
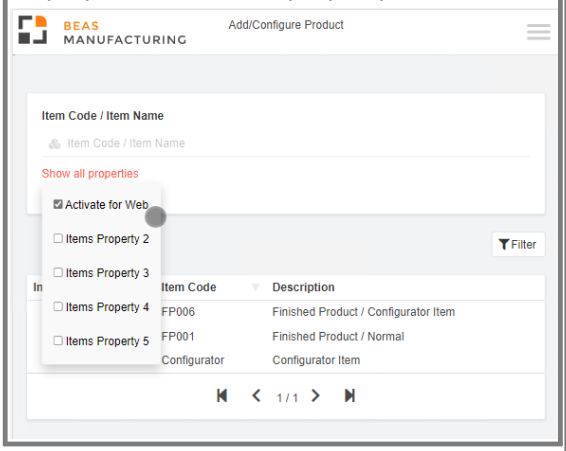
PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator > WEB Product Configurator

Parameters

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Name</th><th>Description</th></tr>
<tr><td colspan="2">List of Products</td></tr>
<tr><td>Display non-configurable items also</td><td>Define if the Web Configurator should also display items without a configuration.
If this parameter is set to "Yes", all items are available for the Sales Order.
Default value = No.</td></tr>
<tr><td>Customer can select</td><td>Determine which items can be selected for the logged in customer with the following parameters:<table><tr><th>Parameter</th><th>Description</th></tr><tr><td>All</td><td>All items can be selected.</td></tr><tr><td>Catalog</td><td>Only items defined for the customer in the SAP form Business Partner Catalog can be selected.</td></tr><tr><td>Price list</td><td>Customer can only select items that are defined in the SAP Business partner Master Data > Payment terms with a price.</td></tr></table></td></tr>
<tr><td>Display Filter by Item Group</td><td>Enable the Filter item list by item group.
- Yes
- No</td></tr>
<tr><td>Display Filter by Property (Start)</td><td>Display items with a numeric range of properties. Define the starting property for the range.</td></tr>
<tr><td>Display Filter by Property (End)</td><td>Display items with a numeric range of properties. Define the ending property for the range.</td></tr>
<tr><td>Filter items with Property Number</td><td>Only display items that have the property number you enter here.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Name	Description
	Example: Activate a property in the Item Master data:  and filter Web Product Configurator to display items with this property: 
Allow to copy Configurations from documents	If this parameter is set to "Yes", you can edit an existing configuration to add it again to the cart. The configuration number appears as a link in the description of a Sales order or quotation. Tap on the link to open and edit the existing configuration.

See Documents settings for the Web Product Configurator

8.14.4.2 Documents

Here you can perform document related settings for Web Configurator apps.

Note: The Web Product Configurator must be reloaded after you modify a parameter to apply the changes.

PATH: Administration > System Initialization > Configuration wizard > Production > Product Configurator > WEB Product Configurator

© 2026 Boyum IT Solutions A/S

Parameters

Name	Description
Documents	
Allow to create Sales orders	Define if the Web Product Configurator can create Sales orders. If "Yes" is set, the **Create the order** button appears in the Cart view. - Yes - No Note: If the parameter selection in "Allow to create Sales quotations" is "No", this setting is activated.
Allow to create Sales quotations	Define if the Web Product Configurator can create Sales quotations. If "Yes" is set, the **Create the quotation** button appears in the Cart view. - Yes - No
Display WEB orders only	List sales orders and quotations created with the Web Product Configurator: - Yes - No
Sales employee can select customer list of	Define the customer list that can be selected. - All customers: Sales employee can select all customers - Only linked customers: Sales employee can only select customers lists where customers are linked to Sales employees. ***See*** SAP documentation. Note: This parameter only affects operation when logged in as an employee.
Sales Employee can see sales Documents	- All Sales documents: Sales employee can see all documents. - Own sales documents: Display orders where the "Owner" is the same as the Sales employee. Note: This parameter only affects operation when logged in as an employee.
Allow to cancel a document	Define if the user can cancel a sales document in the Web Product Configurator: - Yes - No

© 2026 Boyum IT Solutions A/S

Name	Description
Write Description to UDF	Add linked UDF name from the Sales document: This setting adds the description in the previously created UDF of the Sales document.
Write Variant Digest to UDF	Add linked UDF name from the Sales document: This setting adds the parameter string (parameters with prices) in the previously created UDF of the Sales document.
Allow to modify the Requirement date	Define if the user can modify the requirement date in sales documents in the Web Product Configurator. - Yes - No Note: In Sales orders, this setting is reflected "Delivery date" field, and in Sales quotations, this is indicated in the "Valid until".
Display currency	Display currency according to one of these settings: - **Local**: the main, locally defined currency. - **System**: the currency used by the system. (default) - **Business Partner**: the currency set in the SAP Business Partner data.

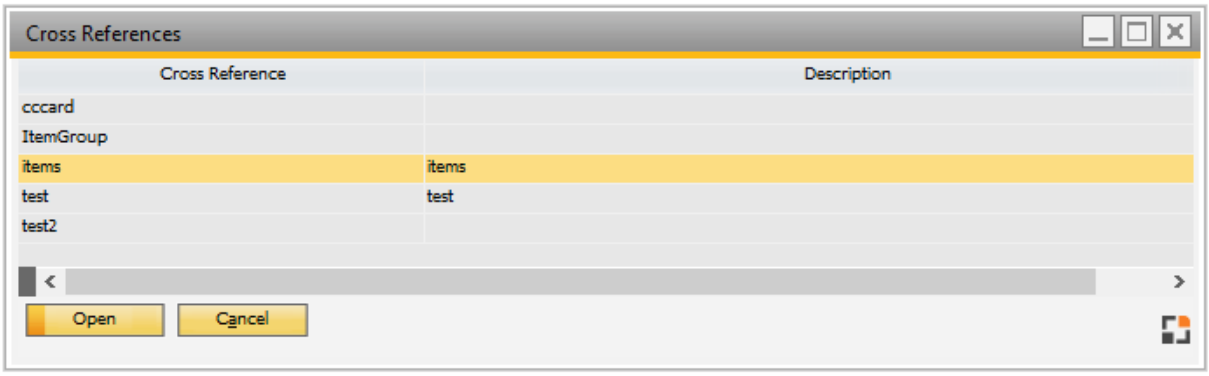
See List of Products

8.14.5 Cross-references

As described in the properties of objects, you can assign selection options to a parameter using a cross-reference. This way of defining selection options is particularly useful if you want to access the same selection options in the configurators of multiple items.

For ***example***, there could be several sofa types for which the same fabric types can be selected. In order not to have to store the different material types in each configuration structure of each sofa, you can enter these once within a cross-reference. If you then allocate this cross-reference to a parameter, the selection options stored there are available for this parameter.

© 2026 Boyum IT Solutions A/S



caft_verweis_browse.psr

Cross-reference could be used in the product configurator dropdown- or button lists.
A cross-reference is organized as a table with the columns Item, Name and Value. You can also add an image.
If an existing reference is selected or a new one is created, a new window opens.

If the configuration structure contains a *Material* parameter to which the reference *Fabric type* is allocated, the configurator contains the selections *Blue material* and *Red material* . If *Blue Material* is selected, the value *MatBlue* would be assigned to the parameter. The Item no. sets the default order for the values.

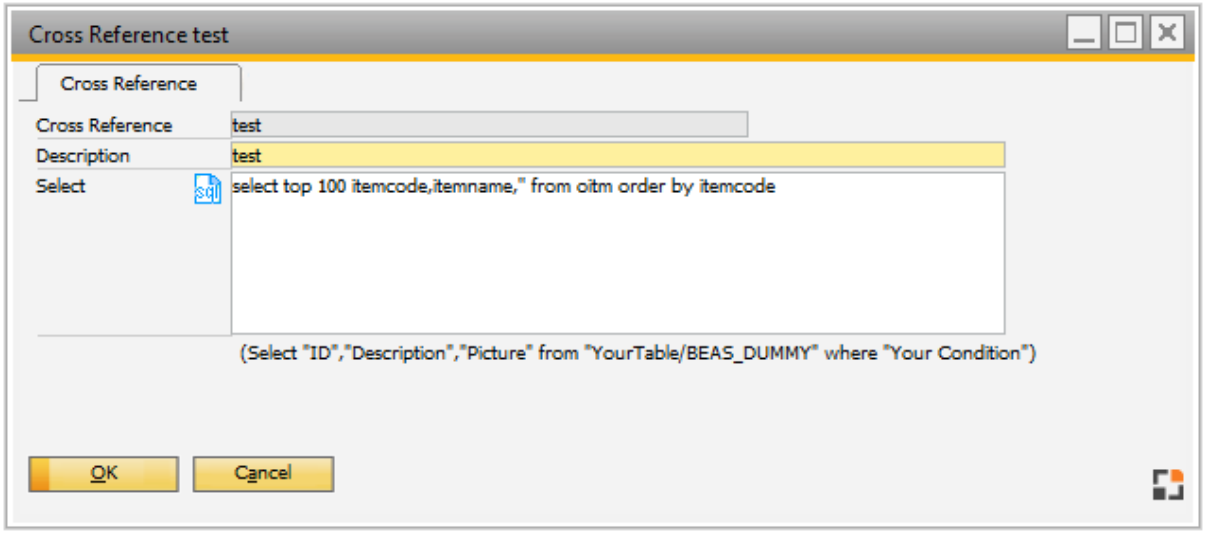
You can also generate a cross-reference table from a SQL-statement. For example, only material types could be displayed that correspond to a specific material group selected in the configurator (*Group* parameter from variant).

Generally defined parameters and set-objects can be used. Therefor, however, is to ensure that at the time of use in the product configurator, the values are already assigned.

8.14.5.1 Cross Reference

Here you can define a new Reference entry.

© 2026 Boyum IT Solutions A/S



caft_verweis_edit.psr

Tab "Reference"

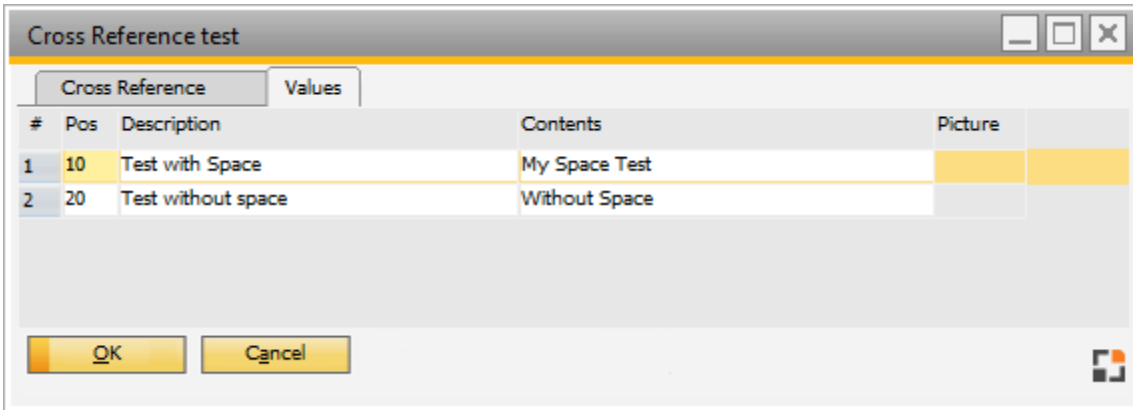
Field	Description
Cross Reference	Reference name
Description	Description of Reference
Select	Enter a data base query (Select-Statement). The SQL statement must return 3 columns: a) the ID b) the Description c) optional a picture reference or empty string Parameters can be inserted in [...] If no SQL statement is defined, you can insert manual values. ***See*** tab Values. ***Example:*** `select "ItemCode", "ItemName",'' from "OITM" where "U_gruppe" = '[group]'` Note: When using dropdown lists, it may possibly be useful to suppress the return value from the displayed list.

© 2026 Boyum IT Solutions A/S

Field	Description
	This could be realized via the output formatting of the return value (***see*** BeasScript manual). `select "ItemCode" as itemcode__1, "ItemName",'' from "OITM" where "U_gruppe" = '[group]'`

8.14.5.2 Cross Reference Values

(Only visible if no database query was defined).



caft_verweis_pos.psr

Field	Description
Pos	Position no.
Description	Designation of value
Contents	Value
Picture	Assigned image for current position (Selection via Button "Picture")

The following is an example for a cross-reference for selecting material for a sofa.

Reference: Fabric type

Name: Selection of fabric type

Item	Description	Contents
10	Blue material	MatBlue

© 2026 Boyum IT Solutions A/S

Item	Description	Contents
20	Red material	MatRed

8.14.6 Formulas

All types of formulas are managed here, e.g.:
- Planned time calculation formulas
- Output calculation formulas

The formula number enables assignment of a formula to time components, operations, BoM positions, thus facilitating the calculation of:
- Default times
- Material requirements
- Other technical data

The result calculated from a formula can also be allocated to a variable.

- Elements of a formula

- Formula flag:	Unique flag used to identify the calculation (e.g. F4711)
- Description:	Describes the function or the use of the formula (comment)
- Formula string:	Any mathematical and logical formula can be entered here. All numbers and characters are permitted.
- Type	Output type of formula (as text or numeric)

- Structure of a formula

The following must be observed when using variable designations:

- Maximum length of 20 characters
- Blanks, spaces or mathematical symbols must not be used (+ - period, comma etc.)
- Variable names may not consist of reserved names (function names).
- Variables must begin with a letter
- Mutated vowel and "ß" must not be used.
- Unlike in the product configurator, variables do not have to be delimited by [..].
- Formel syntax corresponds the Syntax of Datawindow (R) - Interpreter of Sybase (R)
- The number of variables is not limited

© 2026 Boyum IT Solutions A/S

If a formula is selected or created new, a new window opens:

Tab "Formula"

Field	Description
Formula	Formula name
Match code	Match code
Description	Formula description
Formula string	Definition of formula
Type	Output of formula ("numeric", "string" or "yes|no")
Dec	Number of decimals (for numeric type)

Tab "Variables"

(Definition variables of used in formula)

The syntax is the same as the DataWindow syntax.

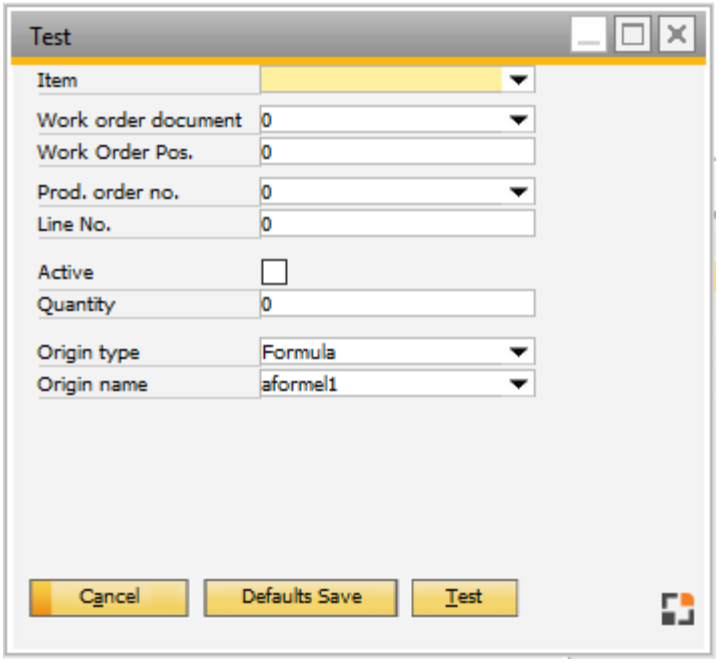
See: Datawindow-Syntax

Field	Description
Variable	Variable name
Description	Description of variables
Type	Output of formula (numeric or string)
Dec	Quantity of decimals, necessary by type "Number" (numeric)
UoM	Unit of measurement
Origin type	Origin of variable: - Formula - Table - Variant (from product configuration) - Field from Item - Order (Sales Order) - Order line - Manually (enter manually at run time) - Beas-Script For details ***see*** Formula Types
Origin name	Object name from origin type

© 2026 Boyum IT Solutions A/S

Field	Description
Change	Allow changes at run time
Validity	Validity of variable: - **local** (only within the formula and all formulas and tables called by it) - **shared** (within the assembly and for all following items, but not sub-assemblies) - **global** (in complete structure from the moment of calculation)
Operation	Mark, to save the variable globally with prefix "agbez_". Then it can be accessed in a description of an operation. ***see*** Operation Variables
Cross reference	Enter a link (Only useful with origin type "manually" or "Change")
Sorting	Order of processing variables

Test button: Press this button to test the formula in the the window that opens:



Window caft_testeval.psr

Field Descriptions

Field	Description
Item	Select an item from the drop-down.

© 2026 Boyum IT Solutions A/S

Field	Description
Work order document	Select a Work order from the list.
Work Order Pos.	Insert work order position
Prod. Order no.	Select Production Order number
Line No.	Insert Prod. order line number
Active	
Quantity	Insert quantity
Origin type	Select origin type: - Formula - Variant - Field from item - order - order line - Manually - Script
Origin name	Select value from the drop-down list. The values in the list correspond with the selected value in Origin type.

Defaults Save button: Save selected values as default for Test

8.14.7 Tables

In addition to formulas, you can also store decision tables. This means that you can store values or even other formulas for specific occurrences (or areas) of parameters. The number of parameters stored in a table is referred to as the dimension of the table.

For ***example***, you can store processing times for obtaining the sofa depending on the sofa length. Tables are particularly useful if parameters have a limited number of input options, or if there is a limited set of results.

Example: If sofa length < 150cm then produced on machine x.
If sofa length >= 150cm then produced on machine y.

Table tab
Dimensions tab

© 2026 Boyum IT Solutions A/S

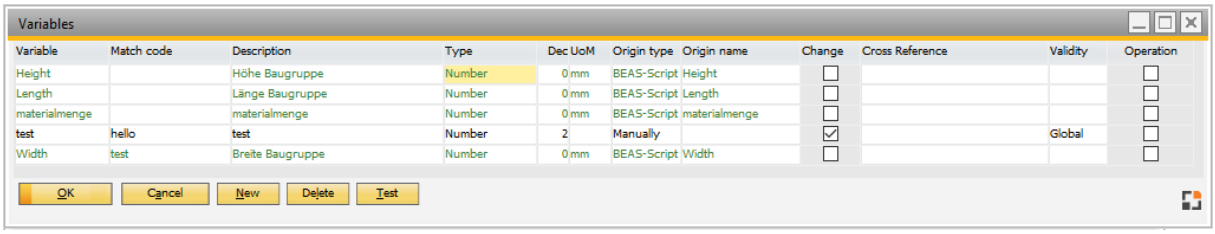
Values tab

8.14.8 Variables

Variables are pre-definitions (templates) of a time calculation through formulas and tables. The numeric or alphabetic assignment of variables can be:

- calculated in a formula
- read in a parameter list
- read in a table
- read from item, order line or order header
- determined from a freely definable origin type

Define the formulas and tables you want to use under the Variables menu option. The texts for description and unit of quantity are adopted when entering a variable name. However, you can also choose to describe the variables later in the actual formula or table.



Window caft_var_browse.psr

Field descriptions

Field	Meaning
Variable	Master name or key used to access the variable. Note the following here: - Variable names can be up to 20 digits long - Variables must begin with at least one letter - only the underscore '_' may be used as separator symbol - The number of variables is not limited - math symbols may not be used in variable names
Description	Arbitrary
Matchco	Free text

© 2026 Boyum IT Solutions A/S

de	
Type	Output of formula ("numeric", "string" or "yes/no")
Dec	For numeric: Number of decimal places. Number formats or number of decimal places are now adopted from the SAP Business One settings. Note: In Beas numbers are always formatted according to the Windows settings (Control Panel – Regional Settings), since all Beas fields are input fields conforming to Windows.
Unit	Unit of quantity as information such as piece, mm, etc.
Type of origin	Origin of the variable (How is the variable calculated?) – ***see*** Types of origin/Types.
Origin name	Details about the type of origin (e.g. for table -> name of table).
Change	Should the variable be entered or changed after calculation?
Selection	Should a selection list be available? If so, it can be defined here.
Link	Make available a selection list? Select link.
Validity	Validity and visibility: **local**: only within the formula and sub-tables and formulas called by it. **shared**: within the assembly for all following positions, but not for sub-assemblies. **global**: from the moment of computation visible in complete structure.
Operation	Mark to save the variable globally with prefix "agbez_". Then it can be accessed in a description of an operation. ***Example***: Local variable duration, "Operation" enabled Is saved al grlobal variable "agbez_duration" and can be added to the description <v:agbez_duration>

© 2026 Boyum IT Solutions A/S

	see Customzie BoMs and routings

Test button: ***See*** Test window.

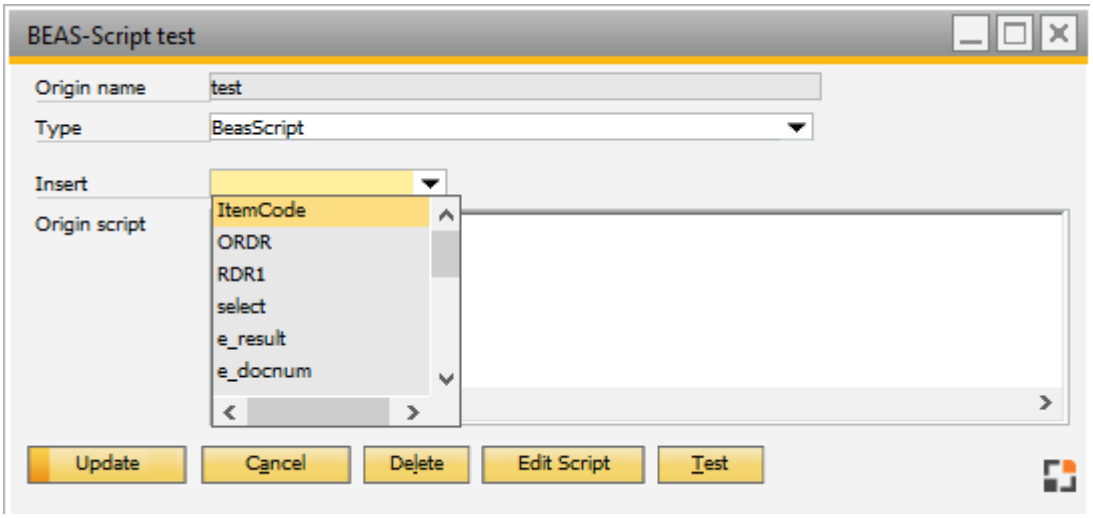
8.14.9 Beas Script

This defines how a variable should receive its value, unless determining the value takes place through the default types of origin.

This can be

- a field from item or sales order table
- result of SQL statement
- a Beas or JBScript

With the Test-Button you can test the formula directly.



caft_herkunft_edit.psr

If the Type is BeasScript and the Origin Script is empty, you can choose "ItemCode","ORDR" "RDR1" or "BoMItemCode"

This allows you to create an SQL statement or insert the placeholder.

- Details:

© 2026 Boyum IT Solutions A/S

select	The result of the select statement is returned. Only one result may be returned. Placeholders can be inserted. example : return the assembly `select <e_itemcode,dbstring> from "BEAS_DUMMY"`
ORDR RDR1	Information from Sales Order or Sales Order line. Only if linked at creation time to a Sales order.
itemcode.	Information from the assembly: e.g. itemcode.u_beas_znr (= drawing number)
bomItemCode	Bill of Material item code e.g. `bomItemCode.usertext` *Beas 2020.06*
e_	Access to a Beas variable. All master data information in the current BOM position or routing position is available as Beas variables: ***See*** Pre-defined Beas variables

BeasScript

You can insert a complete BeasScript function. Return the result with
`setvar=e_result="your result"`
You have access to all Pre-defined Beas variables.

Example

```
if <e_quantity> n> 5 then
  setvar=e_result="ABC"
else
  setvar=e_result="DEF"
end if
```

JBScript

You can insert JBScript. Define result in the return command

return "your result";

Example

```
if (e_quantity > 5 )
  return "ABC";
else
  return "DEF";
```

Pre-defined Beas variables

The following additional Beas variables are set:

Note: All variables are BeasScript variables (strings).

© 2026 Boyum IT Solutions A/S

e_docnum	Order number (if a reference exists) – only available when creating a work order
e_docentry	Internal order number – table order – only available when creating a work order Note: Pre Invoice not supported
e_linenum	Internal order line – table rdr1 – beginning with 0 - only available when creating a work order
e_belnr_id	Work order number
e_belpos_id	Work order position
e_itemcode	Item number of the assembly
e_quantity	Quantity of the assembly (only work order and calculation)
e_info1	Assembly/BoM that is currently being broken down (only Work order and Pre calculation)
e_bomitemcod	Material number of the BoM position (identical with e_art1_id)
e_aktiv	Y/N: Should BoM/operation position be added?
e_BoMId	Bill of Material Id (e_pos_id on Bill of Materials Level))
e_RoutingId	RoutingId (e_pos_id on Routing Level)

8.15 Variant production

In Beas a product configurator is available, which allows a variant production.

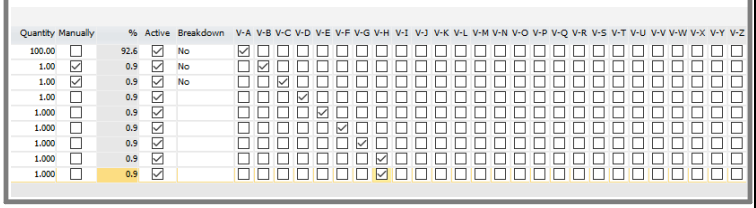
Variant
Product configurator
Variant generator

Productconfigurator (Webinar)

Beas can handle various configuration methods, which can be combined as well.

Item	Description
Variants A-Z	The simplest form is variants. 26 variants can be specified per item. The variants run from A to Z. Details:

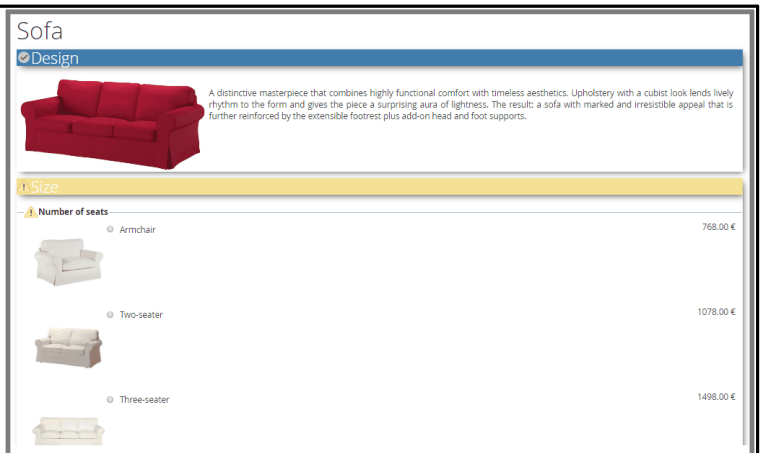
© 2026 Boyum IT Solutions A/S

	In the BoM and in the routing, you simply specify the variant with which this is used. An extra activation switch is available for each variant. This simple type of variant production is used if no other calculations are needed. This procedure is inflexible but very easy to use. **Advantage:** ▪ Very simple operation ▪ Very quick setup ▪ Very transparent **Disadvantage:** • Limited possibilities 
I-Version	⊟ Use item versions as variants Item version control can serve as variant management tool. Every version will be a variant in this case. Control by setting up the visibility of single routing or BoM positions or define a separate BoM position per variant (= in this case the version) *beas 9.1 PL: 08*
Variant generator	In the variant generator, any formulas or tables can be stored with every definition in the BoM or routing (item, quantity, active, size, resource, etc.). ⊟ Details: The formulas or tables obtain their values via source types, which can in turn be assigned any kind of information. This could be information on the product configurator, on the item, on the customer order or simply a manual input. The variant generator is active when creating a calculation or work order.

© 2026 Boyum IT Solutions A/S

	The manually input data is not saved. The product configurator can be used for this. **Advantage:** - Theoretically unlimited calculation possibilities **Disadvantage:** - If the product configurator is not used, there is no proper user interface - Not considered in material requirement planning - unless you create a calculation which the MRP run can reference.
Product configurator	The product configurator includes a graphical configuration. An endless number of configurations can be created, including item number generation and a price calculation. With this tool you can generate a small configurator in simple way, which is complete integrated in SAP Business One. Details: **Use this for** - generate order related sales order or quotation with price calculation - Business to Business: Business partner can use the WEB front end to generate orders **Don't use it** - For End user, if you need more then 50 parallel sessions - if you need very complex configurator The product configurator requires the variant generator if you want to create Items or Work orders. The configuration is created at the time of the quotation/order and transferred to the precalculation or production document using the variant generator.

© 2026 Boyum IT Solutions A/S



Advantage:

- Good and simple interface
- Many calculation possibilities

Disadvantage:

- High training requirement for setup
- High setup costs
- Not considered in material requirement planning - unless you create a calculation which the MRP run can reference

Limitations:

If you change a property in Front end, the system calculate at real time the complete configurations
All formulas must be executed. beas use in memory technology and check, which formula must be calculate again
If you need more than 400 formulas (WEB: 200) inside or if the configuration have more then 2000 (WEB: 1000) lines, the Frond end can be slow.

- Split configurations. Define more then one configuration definition
- Try to use less formulas as possible
- Use DataWindow Syntax for formulas, if you have a fast client
- Use SQL Syntax, if clients slow, but SQL server fast
- Only calculate information, which you need for the Configuration. Don't calculate information which you need for the work order.

Third configurator	⊟ Interface to external configurator

© 2026 Boyum IT Solutions A/S

	It is possible to work with the external configurator It is useful in case of better graphical interfaces or end user web pages. The external configurator must save the result in some tables in current SQL Database For more information contact our support.

Each of the procedures can be used separately or in combination.
Each procedure is active once information has been stored for it. Therefore separate activation is not required.

8.15.1 Variant

Beas includes proprietary variant management. It is possible to store up to 26 variants for an item.
The descriptions of the variants are stored directly with the item.
A variant is a fixed occurrence of the parameters defined in the item.

Define which BoM positions and routing position must be used for this variant (A-Z).
The variants (Variantenmatrix) can be inserted in the BoM or in the routing via window settings.

The following rule applies:
This position will be inserted if no variant – check box is enabled.
If at least one variant is active – check box, the position will only be inserted if the resulting check box has been selected.

Master Data | Bill of Materials

#	...	Position	UoM	Item	I-Version	Description	Quantity	Manually	Active	V-A	V-B	V-C	V-D	V-E	V-F	V-G	V-H	V-I	V-J	V-K	V-L	V-M	V-N
1		10		sofalath		Lath for the sofa	46,800	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2		20		sofaspring		Spring for the sofa	24,000	☐	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3		30		sofapad		Pad for the sofa	6,000	☐	☑	☑	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4		40		sofascrew		Screw for the sofa	50,000	☐	☑	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5		50		SofaLeatherRed		Red leather for the sofa	19,200	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6		60		SofaLegSteel		Stainless steel leg for sofa	4,000	☐	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

Windows artikel_stlpos_browse.psr

- Define variant description

  Variants A-Z can be named in the item or in the configuration wizard. ***See*** Configuration wizard, Item master data

  Note: At a variant definition Variants are always sorted by A-Z in lists instead by the names which are stored in the article master.

© 2026 Boyum IT Solutions A/S

- Field definition in database and data import

The variant definition is stored in the tables `BEAS_STL.SHORTVARIANTDEF` (for BOM) and `BEAS_APL.SHORTVARIANTDEF` (for routing) as a "character string".

It consists of 26 characters with J (Active) and N (Not active)

Example: `JJNNNNNNNNNNNNNNNNNNNNNNNN` = Active for variant A and B

Please note:

If there is something else in this database field or the "string" is not exactly 26 characters long, the variant will not be checked!

- Variants in sales order

To create a customer order using a specific variant, create the customer order, then select the item, and select it via the right-click-menu "variant". In the new window all variants are displayed. Select the variant which you will have for the item in the actual line of the customer order. You can select from existing variants, copy a variant, or generate a new variant by entering parameter values for this item.

Calculation: You can perform a calculation for a line, according to its variant, from a quote or order in SAP Business One. The Precalculation can be called up via right-click-menu "calculation". Parameters not defined in the variant are queried explicitly during the BoM breakdown. A calculation structure modified according to the parameters is created. The result is usually displayed in the calculation window. You can also convert it into a work order.

The resulting variant is transferred automatically to the customer order or quote line. You can then generate a work order from the customer order. The BoM and routing from the work order are then customized accordingly.

- Variants in Order recommendation list

If a work order is to be created for a sales order, the variant stored in the sales order is displayed when you switch to the "Production" tab in the bottom left window. If no variant is stored, this can be selected here if variants are stored in the item.

Requirement calculation: If no work order exists for a sales order yet, and it is an order-based item, the variant stored in the sales order is considered for the requirement calculation. In case of an assembly (warehouse-managed item), the BoM and routing positions active by default are used, i.e. you must define which default scenario should be used for requirement calculation. It is generally unreasonable to produce variant items in the warehouse.

- Variants in pre-calculation

© 2026 Boyum IT Solutions A/S

All variants are loaded in a Precalculation at all times. In the header of the calculation, the variant to be calculated currently can be selected. All BoM positions and routing positions not belonging to the currently selected variant are grayed out and not evaluated.
It is not possible to change Variant settings in the Precalculation.

- Variants in work order

When manually creating work orders, the variant can also be selected for the assembly position if variants are stored in the item.
This only works when creating a new work order. This cannot be changed subsequently.

- Variants per warehouse

In extended warehouse master data a default variant can be created. Different variants of a product can be produced depending on the production warehouse. If a work order is created (manually or via MRP) the respective variant is inserted. *(beas9.0-000-000-006)*.
See Edit extended warehouse data

- Variants with version control

If Version control is set to "Variants", an item version corresponds to a variant. Use this if a BOM and routing needs to be defined separately for each variant. This can be performed without formulas and scripts.

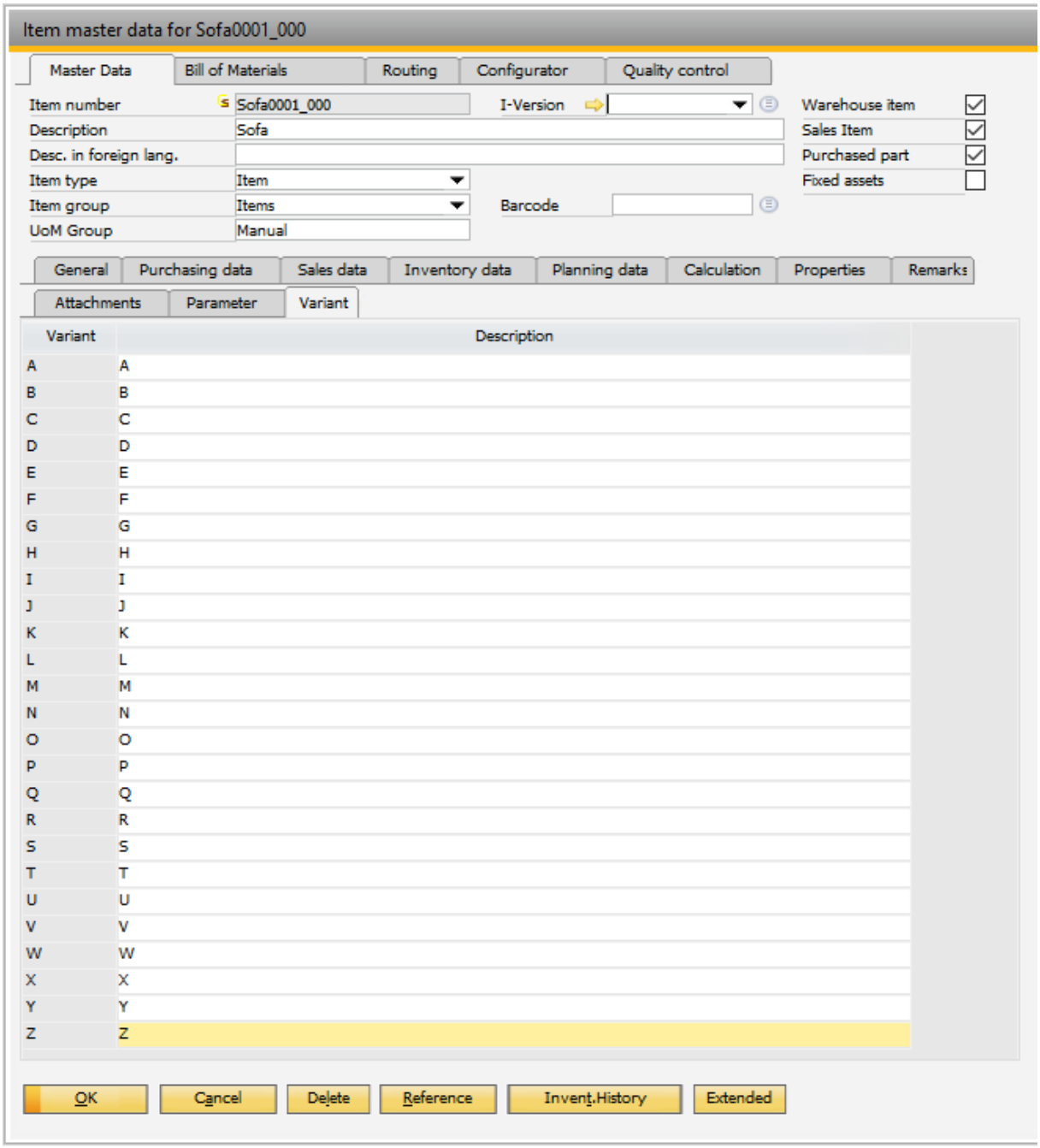
8.15.1.1 Creating Variants

In this window you can define up to 26 variants. It is accessible from the Item Master for XXX window.

Example:

PATH: Inventory > Item report > Item Master Data > "Master Data" tab > "Variant" sub-tab.

© 2026 Boyum IT Solutions A/S



Window artikel_edit.psr

Tab "Variant"

Field	Description
Variant	Possible variants (A–Z).
Description	Description of the variant.

© 2026 Boyum IT Solutions A/S

Before you can select variants for BoM and Routing, you must enable them in the view: **right-click > Window settings.** Scroll down in the new window and select the variants you want to have displayed. These settings apply globally and not per item- Therefore, even if you only have 5 variants of an item, you must always enable the maximum number of options.

Select the BoM or Routing tab, to create the different BoMs or Routing positions for each variant. Using check boxes you can assign each BoM item or operation to the variants. All BoM items can be added or removed to any variant.

Tab "BOM" and "Routing"

(only visible when enabled in window settings).

Field	Description
V-A	Variant assignment (BoM for "A").
V-B	Variant assignment (BoM for "B").
.....	
V-Z	Variant assignment (BoM for "Z").

back to Item Master

8.15.2 Product configurator

8.15.2.1 Bills of materials and operations

As a rule, configuring an item in the product configurator affects the bill of materials and the routing, respectively. In the sofa ***example***, a three-seater will require more cover fabric than a two-seater.

For this purpose, any routing or Bill of materials characteristic can store a formula, table, or the contents of a parameter.

Note:

When using the product configurator, the parameter will usually be accessed directly. However, you can also create formulas and tables by accessing the parameters of the product configurator.

Warning:

© 2026 Boyum IT Solutions A/S

The formula syntax of the product configurator is the same as that of the installed SQL server. The variant generator uses the DataWindow syntax.
In variant syntax, variables are delimited using [and]. In the variant generator, delimiters are not necessary.

see Formulas

8.15.2.2 Syntax

The product configurator uses various **syntax**. Parameters are used in square brackets ("[","]").
A Syntax verification of formulas is only possible for SQL syntax via the "Check"-Button.

For **visibility rules** only the condition is checked.

Example with SQL syntax:
[numberofseats]=2 or [numberofseats]=3

In this case, the statement is:
select case when [numberofseats]=2 or [numberofseats]=3 then 1 else 0 end

Note:
For more information on the possible mathematical and logical functions with SQL please consult the SQL database documentation.

Warning:
The product configurator uses SQL syntax, parameter are enclosed in square brackets ("[","]").
Conversely, the variant generator in the formula area uses the Sybase DataWindow syntax. Variables do not have to be enclosed within brackets.

Note:
If you use decimal numbers (numeric values with decimal places) in formulas, you must also tell the system that the decimal places are to be counted. Otherwise, only integers are expected.
Some MS systems, as well as MS SQL servers, must be informed of this explicitly.

Example:

© 2026 Boyum IT Solutions A/S

2 variables: value1=10, value2=20

-> [value1] / 1000 * [value2] brings up a "wrong" result: 0

-> [value1] / 1000.0 * [value2] calculates the "correct" result: 0,2

- Example of the product configurator syntax for visible rules

SQL formula:

[cushions] = 'Y'

or

```
case when [headrest]='Y' then 'Y' else 'N' end
```

DataWindow:

```
if([a]=5,1,-1)
if([a]="Y",1,-1)
```

JavaScript formula:

[cushions] == 'Y'

JavaScript:

result = [cushions] == 'Y';

or calculation of the headrest

```
if ([numberofseats] == "2" || [numberofseats] == "3")
    result=1
 else
    result=-1;
```

VBScript formula:

[cushions] = "Y"

VBScript:

```
if [cushions] = 'Y' then
   result=1
 else
   result=-1
end if
```

8.15.3 Variant generator

It is very easy to create BoMs and routings dynamically with Beas script.

© 2026 Boyum IT Solutions A/S

Customizing bills of materials and routings
Formulas
Tables
Variables
Beas-Script
Datawindow-Syntax

You can use the Variant generator to create BoMs and routings to be used as the basis for formulas, tables, etc.
You can store a formula, table, variable or script defined in any way behind each BoM and routing parameter. Very dynamic processes can be calculated using scripts.
When creating work orders or calculations, the existing formulas and tables, etc. are broken down behind the individual parameters/fields and included in the calculation.

You can use the product configurator to include the formulas, tables, etc. defined here for the different phases of the business processes.
Item, routing and BoM variants can be easily generated in this way.
see Variants with BeasScript

8.15.3.1 Customizing bills of materials and routings

In the master data form in the Bill of Materials or Routing area, the properties of the discrete positions can be processed
by Formulas. Tables, Variables and Beas-Script according to the variant definitions.

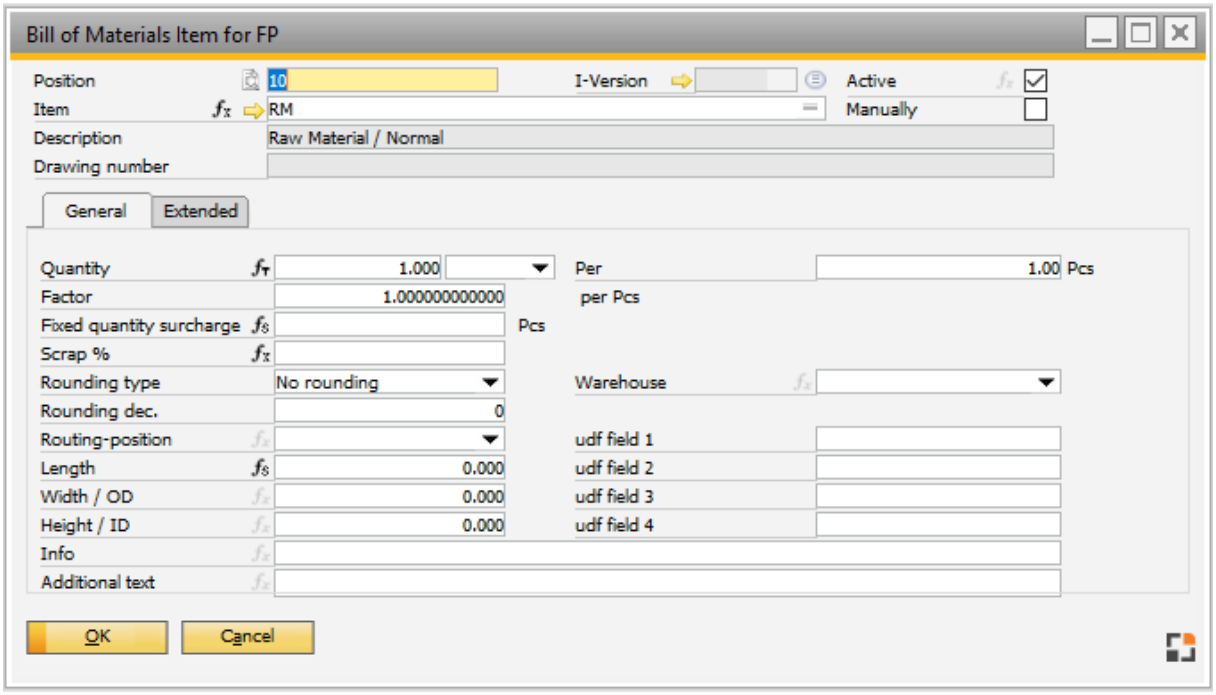
8.15.3.1.1 Formulas, Tables, Variables and Beas-Script

Bill of materials / Routing positions:
If you double-click on a BoM position in the Bill of Materials area in the item master data sheet, a processing window for that BoM position opens.
A formula or product configurator variable (variant) etc. can be stored for all properties of the BoM position /Routing position (except field "Position") identified by the f_x symbol to the left of the input fields.

Important: The Variant generator must be activated first.

© 2026 Boyum IT Solutions A/S

Note: The f_x symbol can be displayed by right-clicking in a free area of the processing window. Activate formula fields by **right-click > "Display formula fields"**.



Window artikel_stlpos_edit.psr

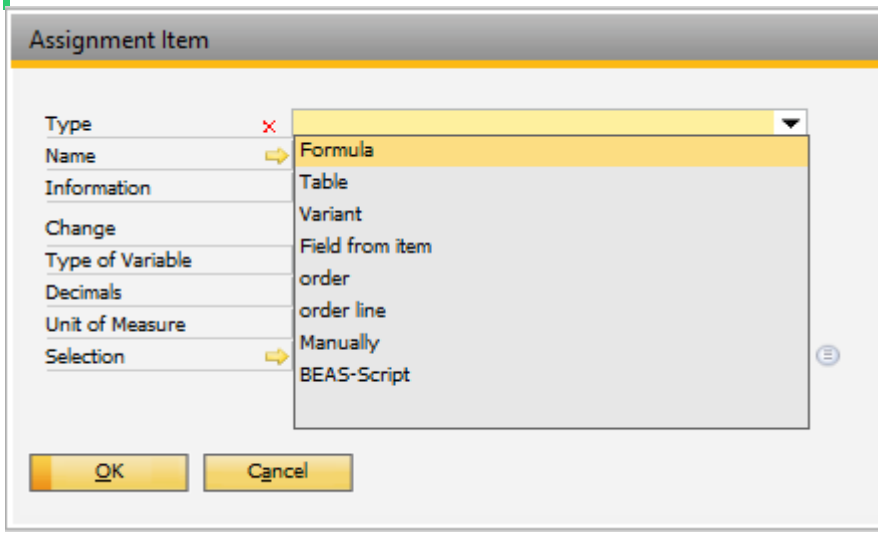
Formula icons

Icon	Boyum Style icon	Description
f_x	f_x	Function
f_T	f_T	Table
f_S	f_S	Script and other Variants
f_x	f_x	Empty formula
		Text edit disabled. Double-click to open the script editor. Located left of Item number in Item Master data.
		Text edit - script is inside. Double-click to open the script editor. Located left of Item number in Item Master data.

© 2026 Boyum IT Solutions A/S

Double-click the f_x symbol left of the input field to open a window containing the type and name (value) of the allocation:

PATH: Item master data for XXX > Bill of Materials tab > **Open** a BoM position > double-click f_x symbol > right-click "Type" field.



Window artikel_ caft_ zuordnung.psr

Field	Meaning
Type	Type of formula

Type	Meaning
Formula f_x	Reference to a formula from the Variant Generator area. ***see*** Formulas.
Table f_T	Reference to a table from the Variant Generator area. ***see*** Tables.
Variant	Reference to a parameter or "set"-object from the variant of a product configuration. If there is a parameter in the configuration structure that calculates the quantity of screws required for a sofa, the value of the parameter can be accessed here.
Field from item	Reference to an item property, i.e. information stored in the item master, e.g. length, width, drawing no., etc. (for current item).

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Meaning</th></tr>
<tr><td></td><td>
<table>
<tr><td>Order
OrderLine</td><td>Reference to information stored in the customer order
Read fields direct from linked sales order
Example: Read color information from document line field U_color
<pre>Type: OrderLine
Field: U_color</pre>Note:
The system read information directly from table
The sales order must be saved
This is not working, if you want to create a PreCalculation inside a sales order, before you saved the sales order.</td></tr>
<tr><td>Manually</td><td>Manual input is required for this field (e.g. quantity) during evaluation of the Bill of materials.</td></tr>
<tr><td>Beas-Script</td><td>Reference to a BeasScript or Variable stored in the variant generator (e.g. for evaluation the order position, material quantity, etc.). see BeasScript.</td></tr>
<tr><td>JBScript</td><td>Reference to a JBScript stored in the variant generator.</td></tr>
</table>
</td></tr>
<tr><td>Name</td><td>ID of formula or table</td></tr>
<tr><td>Information</td><td>Free text, displayed at calculation or when formula is solved</td></tr>
<tr><td>Change</td><td>May the calculated value be changed by the user?</td></tr>
<tr><td>Unit of M.</td><td>Only visible if "change" was enabled.
Displayed or entered unit of measurement during calculation</td></tr>
<tr><td>Type of Variable</td><td>Only visible if "change" was enabled.
Type "Character" or "Number". Determines the format of input/output</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Meaning
Decimals	**Only visible if "change" was enabled.** If variable type was set to "Number": number of decimals
Selection	**Only visible if "change" was enabled.** The user gets options to select from.

Available formula (source) types:

For each BoM position you can input, for example, the quantity depending on the specifications entered in the variant using the references described in the above table. For ***example***, if the quantity of the cover fabric is calculated in the product configurator depending on the size of the sofa - e.g. using a “set” object *material_quantity*, that contains the corresponding value, a reference to this “set” object can be defined for the quantity field of the BoM position. This value is, then, copied to the BoM position field when calculating the Bill of materials.

The same procedure is possible for the item field of a BoM position - items on a bill of materials can be exchanged in this way. For ***example***, if there is a parameter *cover fabric*, in the configuration structure that can accept the values MatRed and MatBlue from a reference for the item field of the BoM position (where MatRed and Matgreen is replaced by MatBlue must be existing item numbers).

- Table/Column information (Data integration hub)

The information are saved in field CAFTINFO with format
(BEAS_STL.CAFTINFO, BEAS_APL.CAFTINFO)

```
Type=Name=Information=ColumnType=ColumnLength=Changeable=Unit=ChooseList=Formula
[CR-LF] .. next line
```

All "=" inside the parameter replaced with "³"

Type:

Type	Description
F	Formula
T	Table
P	Parameter from Configurator
V	Variable
K	No relation

© 2026 Boyum IT Solutions A/S

Type	Description
R	Text
B	Reference to BeasScript

8.15.3.1.1.1 Formula icons

Formula icons

Icon	Boyum Style icon	Description
		Function
		Table
		Script and other Variants
		Empty formula
		Text edit disabled. Double-click to open the script editor. Located left of Item number in Item Master data.
		Text edit - script is inside. Double-click to open the script editor. Located left of Item number in Item Master data.

8.15.3.1.2 List of formulas

Overview list of all stored formulas in current BoM, routing and master data items. Use drag&drop to change the order of processing. This may be necessary if calculations depend on other results. Formulas can also be deleted here. New entries are not possible.

For field descriptions ***see*** Assignment of formulas

8.15.3.1.3 Routing Description

Customizing the routing description, Item name or additional BoM text

© 2026 Boyum IT Solutions A/S

In addition, in the operation description, additional information on the BoM, or item, information from a formula or variant can also be stored in the description of a routing.
Placeholders can be inserted into routing descriptions for this purpose. These placeholders begin with < and end with >. All variables as well as separate formulas, tables, types of origin, etc. can be inserted.

The origin itself is defined in the placeholder using **origin type** and "**:**".
The type "Script" is used if the type of origin is not specified.

TYPE	Description
f:	Origin is a formula, e.g. <f:MyFormula>
t:	Origin is a table, e.g.. <t:tab4711>
i:	From assembly – item master: e.g. <i:itemname> = Item name
v:	Variable which can be defined as necessary: e.g. <v:var0815>
c:	Beas-script. Can be defined as a type of origin definition, e.g.: <c:e_belnr_id> Document number from work order, <c:e_aplatz_id> = resource ID of the routing position
p:	Parameter from a variant. <p:so_sofa_length>

- Example of an operation description.

```
<c:e_quantity> * Cutting to size according to drawing number <i:u_dnr>
Color: <v:u_color>, length: <v:length>, width: <v:width>
```

with:

e_quantity:	e.g. from beas Script the value "5" gives
u_dnr:	Drawing number, e.g. "ZN 078 12345"
u_color:	e.g. red
length:	e.g. 20
width:	e.g. 10

the following information results in the field "Description":

© 2026 Boyum IT Solutions A/S

```
5 * Cutting to size according to drawing number ZN 078 12345
Color: red, length: 20, width: 10
```

8.15.3.1.4 with BeasScript (on position level)

For more complex processes and calculations related to variant configuration, it is also possible to change properties of field positions using Beas-script.

Proposal Picking is pending to be processed for work order.

You can also append BoM or routing items. There is no need to start from a maximum list and turning items inactive at runtime.

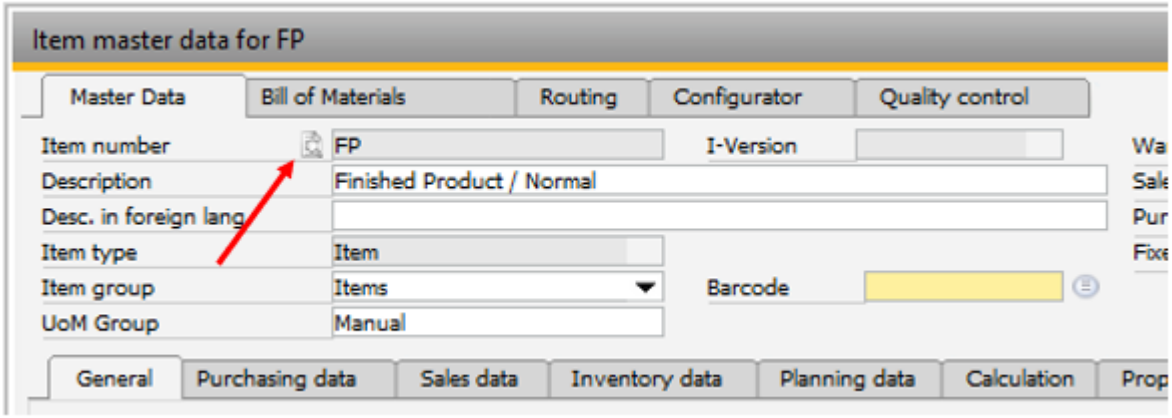
This function is useful in cases where decisions are made to add BoM items or routing positions.

Clicking on the / icon left of the input field "position", the Beas editor window opens, to enter Beas-script.

Important: The Variant generator must be activated first.

Note: The / symbol can be displayed by right-clicking in a free area of the processing window.

(right-click > "Display formula fields").



- Available variables:

Variable	Description	Example
`<itemcode.[fieldname]>`	Field from assembly item master data, table "OITM" HANA: Field Name must be added correctly.	`<oitm.ItemName>`

© 2026 Boyum IT Solutions A/S

	Example: Wrong: `itemname`, Correct `ItemName`	
`<bom_itemcode.[fieldname|>`	Field from material item master data, table "OITM". You can use this only in a Bill of materials – script HANA: Field Name must be added correctly. ***Example***: Wrong: `itemname`, Correct `ItemName`	`<bom_itemcode.ItemName>`
`<ordr.[fieldname]>` `<rdr1.[fieldname]>`	Field from sales order if a link exists. HANA: Field Name must be added correctly. ***Example***: Wrong: docnum, Correct DocNum Note: This is only working, if the document is saved Example: If you create a Calculation from Sales order, then the system can read the information only, if the order is added/updated.	`<ordr.DocNum>` `<rdr1.U_myduf>`
`<parameter.[parametername]>`	Field from configurator if a link to a configuration exists. If no entry found: – the link to a work order parameter if work order exists. If no entry found: – item parameter (Item master data – parameters)	`<parameter.length>`
`<productconfiguration>`	The Id of current product configuration.	`<productconfiguration>`
`<variant>`	The Id of current variant (A ...Z).	`<variant>`

- Adding of BoM and routing and positions and also parallel resources (Objects)

Only for scripts which will be deposited directly behind an item.

Functions are part of the object "variant". This identification has to be indicated accordingly.

Example: variant.addbom=itemcode=A1001<tab>pos_id=40<tab>sortid=40<tab>pos_text=40<tab>quantity=1

Function	Description	Example
`addbom`	Add a BoM position, properties	`variant=addbom=itemcode<tab>quantity=4`
`addrouting`	Add a routing position	`variant=addrouting=aplatz_id=A001`

© 2026 Boyum IT Solutions A/S

addparallelressource	Add a parallel resource or tool	variant=addparallelressource=wkz_id=T001

BoM attributes (with "addbom")

Nearly all attributes of a routing position with the object "variant" can be accessed via the BeasScript:

Parameter	Field / Attribute
pos_id	BoM position
pos_text	BoM sequence (Text for Routing position)
sortid	Sorting ID for BoM position
itemcode, art1_id	Item
itemname	Description
quantity, menge_lager, menge_verbrauch	Quantity
quantity_by, menge_je	Quantity per
roundingtype, round_type	Rounding-Type
roundingdec, round_dec	Mach+Labor Time/unit / Processing time
routingposition, aplanpos_id	Routing position
length, abm1	Length
width, abm2	Width /OD
height, abm3	Height /ID
additionaltext, usertext	Additional Text
warehouse, whscode	Warehouse
aktiv	Active flag
udf1 .... udf15	User defined field 1 - 15

Routing attributes (with "addrouting")

Nearly all attributes of a routing position with the object "variant" can be accessed via the Beas Script:

Parameter	Field / Attribute
resource_id, ressource, aplatz_id, resource	Resource
operation, ag_id	Operation

© 2026 Boyum IT Solutions A/S

pos_id	Routing position
pos_text	Operation sequence (Text for Routing position)
sortid	Sorting ID for Routing position
agtyp, agtype, type	Type
description, bez	Description
clockmandatory	Clock Mandatory
setup_calculation, traplatz	setting up time
setup_scheduling, tr2aplatz	Setup time capacity
time, teaplatz	Mach+Labor Time/unit / Processing time
costelement, timetype_id	Cost Element
timefor, menge_je	Time for .. finished part
timein, menge_zeitje	Time in .. (min=1, hour=60)
usefaktor, nutzen, usefactor	Use factor
worksteps, anzahl	Work steps
idletime, tl	Idle time
overlapptime, ueblgrz	Overlap limit
scrapfactor, ausschussfaktor	Scrap factor
qcinspectionplan, qs_id	QC inspection plan
payslips, lohnscheine, anzls	Number of payslips
activ, aktiv, active, aktivformel	Operation active
udf1 ... udf15	User defined field 1 - 15
feedback_unit, rm_me_id	Confirm in units
feedback_factor, rm_faktor	Factor for Assembly
external_itemcode, external_price	For external Routing position: The non warehouse item for Purchase order and the price *beas 9.3 PL2 HF1*

Parallel ressource attributes (with "addparallelressource")

The following attributes can be accessed with the object "variant" via the BeasScript:

© 2026 Boyum IT Solutions A/S

Parameter	Field / Attribute
ressource, ressource_id, resource, aplatz_id, wkz_id	Resource
activ, aktiv, active	Parallel resource active
alternativ, alternatively, alternative	Set Alternative resource
zusatzinfo, description	Description
costelement, timetype_id, kostenart	Cost element
anteil, zeitreservierung, timereservation	Time reservation

- Change of BOM attributes and routing attributes

All attributes of the object "variant" can be accessed via the script if the script is deposited directly in the BOM position or routing position.

English is supported, but it is recommended to use the field names.

Example for BoM – Additional information:
variant.description=this is my description

The most important characteristics are listed in the script-Editor right and can be changed here.

To access on existing values, use the field name "e_", e.g.
Routing – Resource: <e_aplatz_id>

- Examples

Using the simple variant configuration (Variants from A to Z) using Beas-script simple decision can be programmed:

Example 1:

In case that variant "A" was selected, a BoM item with item number "test003" is added.

```
if <variant> = A then
  variant.addbom=itemcode=test003,pos_id=40,sortid=40,pos_text=40,quantity=1,quantity_by=1,
end if
```

Example 2:

In case that variant "B" was selected, a routing position with defined resource "1102" and with times is added.

```
if <variant> = B then
  variant.addrouting=resource=1102,pos_id=20,sortid=20,pos_text=20,description=2.Position,t
end if
```

© 2026 Boyum IT Solutions A/S

If variables from Product configurator are needed, use them as in the following example

Examples:

In parameter "length" of the product configuration the length of a part was defined. Depending no the length a BoM item is to be added:

```
if <parameter.length> n> 1000 then
  variant.addbom=itemcode=material001,pos_id=60,sortid=60,pos_text=60,quantity=2
end if
```

The field contents can be set directly on the position level of a BoM position.

```
setvar=v_itemcode=printer_08
setvar=v_quantity=4
...
variant.art1_id=<v_itemcode>
variant.quantity=<v_quantity>
// set position of BOM to inactive
variant.aktiv=N
```

This is also possible for the operations on position level.

```
variant.bez=Carton Type A
// set position of operation inactive. Note: Routings must be set active/inactive via "set

// set direct inactive
setvar=e_aktivformel=N

or

// set with parameter (e.g. "pos_active") from corresponding configuration
setvar=e_aktivformel=<parameter.pos_active>
```

- Usable in the following areas

The scripts will be considered at:

- Create Work Order
- Create Precalculation

No consideration at:

- MRP / Order Recommendation
- Item structure view, Structure reports.

- Special fields

You can set all fields which are available in the BoM.

The following fields (not definable in the BoM item master) are additionally available:

price
itemname

- Working with decimal numbers

© 2026 Boyum IT Solutions A/S

Decimal numbers are transferred in the national system (Windows Regional settings).
The following problems may occur:

Decimal separator = Comma: Comma is also a parameter separator. The variable must be defined before.

```
setvar=lc_price=5,5
variant.addbom=itemcode=material001,quantity=<lc_price>
```

Different regional settings: If working with different regional settings, do the following: Enter a decimal variable in a string variable and then transfer the string variable. Thus the correct regional format will be defined at the conversion.

```
decimal lc_quantity
lc_quantity=2.34
setvar=ls_quantity=<lc_quantity,#0.000000>
variant.addbom=itemcode=AB123T,pos_id=11, pos_id=11,sortid=11,pos_text=11,quantity=<ls_quan
```

8.15.3.2 Formulas

All types of formulas are managed here, e.g.:

- *Planned time calculation formulas*
- *Output calculation formulas*

The formula number enables assignment of a formula to time components, operations, BoM positions, thus facilitating the calculation of:

- *Default times*
- *Material requirements*
- *Other technical data*

The result calculated from a formula can also be allocated to a variable.

- Elements of a formula

- Formula flag:	Unique flag used to identify the calculation (e.g. F4711)
- Description:	Describes the function or the use of the formula (comment)
- Formula string:	Any mathematical and logical formula can be entered here. All numbers and characters are permitted.
- Type	Output type of formula (as text or numeric)

- Structure of a formula

The following must be observed when using variable designations:

© 2026 Boyum IT Solutions A/S

- Maximum length of 20 characters
- Blanks, spaces or mathematical symbols must not be used (+ - period, comma etc.)
- Variable names may not consist of reserved names (function names).
- Variables must begin with a letter
- Mutated vowel and "ß" must not be used.
- Unlike in the product configurator, variables do not have to be delimited by [..].
- Formel syntax corresponds the Syntax of Datawindow (R) - Interpreter of Sybase (R)
- The number of variables is not limited

If a formula is selected or created new, a new window opens:

Tab "Formula"

Field	Description
Formula	Formula name
Match code	Match code
Description	Formula description
Formula string	Definition of formula
Type	Output of formula ("numeric", "string" or "yes|no")
Dec	Number of decimals (for numeric type)

Tab "Variables"

(Definition variables of used in formula)

The syntax is the same as the DataWindow syntax.

See: Datawindow-Syntax

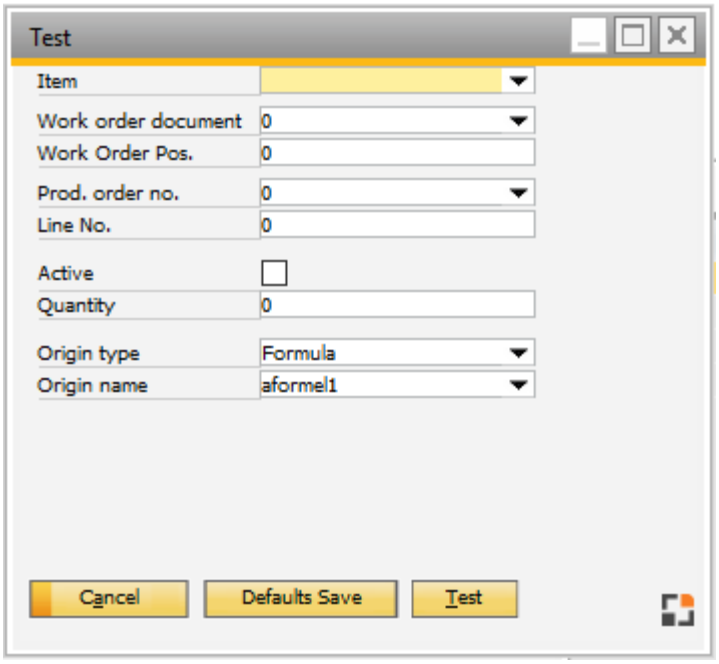
Field	Description
Variable	Variable name
Description	Description of variables
Type	Output of formula (numeric or string)
Dec	Quantity of decimals, necessary by type "Number" (numeric)
UoM	Unit of measurement
Origin type	Origin of variable: - Formula - Table

© 2026 Boyum IT Solutions A/S

Field	Description
	- Variant (from product configuration) - Field from Item - Order (Sales Order) - Order line - Manually (enter manually at run time) - Beas-Script For details ***see*** Formula Types
Origin name	Object name from origin type
Change	Allow changes at run time
Validity	Validity of variable: - **local** (only within the formula and all formulas and tables called by it) - **shared** (within the assembly and for all following items, but not sub-assemblies) - **global** (in complete structure from the moment of calculation)
Operation	Mark, to save the variable globally with prefix "agbez_". Then it can be accessed in a description of an operation. ***see*** Operation Variables
Cross reference	Enter a link (Only useful with origin type "manually" or "Change")
Sorting	Order of processing variables

Test button: Press this button to test the formula in the the window that opens:

© 2026 Boyum IT Solutions A/S



Window caft_testeval.psr

Field Descriptions

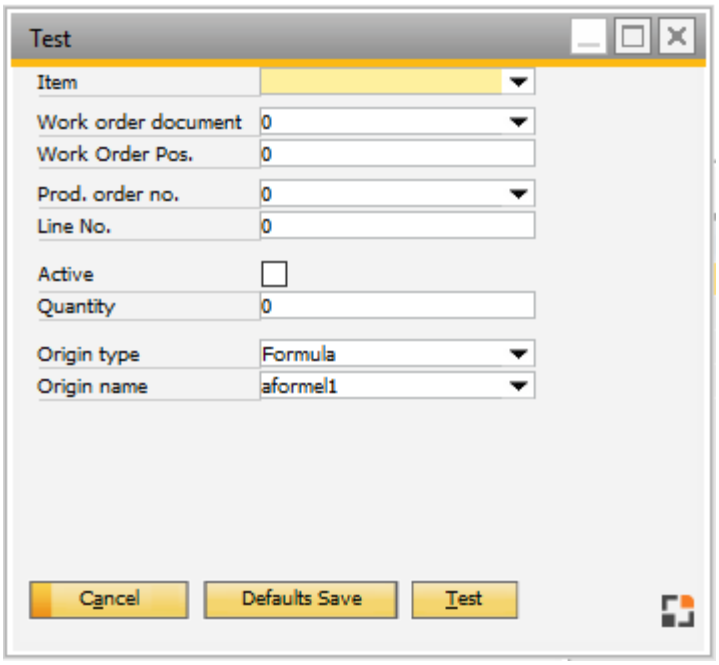
Field	Description
Item	Select an item from the drop-down.
Work order document	Select a Work order from the list.
Work Order Pos.	Insert work order position
Prod. Order no.	Select Production Order number
Line No.	Insert Prod. order line number
Active	
Quantity	Insert quantity
Origin type	Select origin type: - Formula - Variant - Field from item - order - order line - Manually - Script
Origin name	Select value from the drop-down list. The values in the list correspond with the selected value in Origin type.

© 2026 Boyum IT Solutions A/S

Defaults Save button: Save selected values as default for Test

8.15.3.2.1 Test

Test button: Press this button to test the formula in the the window that opens:



Window caft_testeval.psr

Field Descriptions

Field	Description
Item	Select an item from the drop-down.
Work order document	Select a Work order from the list.
Work Order Pos.	Insert work order position
Prod. Order no.	Select Production Order number
Line No.	Insert Prod. order line number
Active	
Quantity	Insert quantity
Origin type	Select origin type: - Formula - Variant - Field from item

© 2026 Boyum IT Solutions A/S

Field	Description
	- order - order line - Manually - Script
Origin name	Select value from the drop-down list. The values in the list correspond with the selected value in Origin type.

Defaults Save button: Save selected values as default for Test

8.15.3.3 Tables

In addition to formulas, you can also store decision tables. This means that you can store values or even other formulas for specific occurrences (or areas) of parameters. The number of parameters stored in a table is referred to as the dimension of the table.

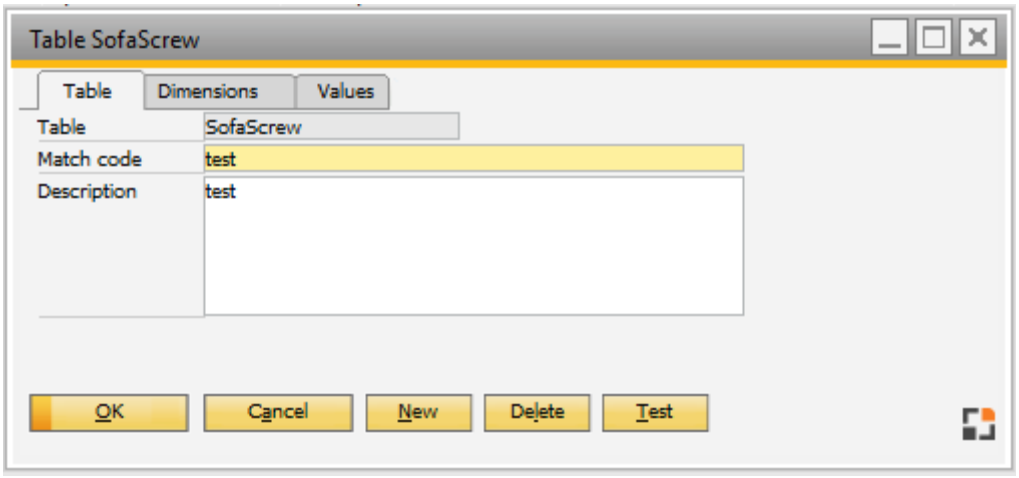
For ***example***, you can store processing times for obtaining the sofa depending on the sofa length. Tables are particularly useful if parameters have a limited number of input options, or if there is a limited set of results.

Example: If sofa length < 150cm then produced on machine x.
If sofa length >= 150cm then produced on machine y.

Table tab
Dimensions tab
Values tab

© 2026 Boyum IT Solutions A/S

8.15.3.3.1 Table tab



Window caft_tabelle_edit.psr

Field	Description
Table	Table name
Match code	Match code
Description	Table description

Test button: ***See*** Test window.

8.15.3.3.2 Dimensions tab

(Definition of used dimensions in table. Max. 6 dimensions)

Field	Description
Pos	Position
Varname	Name of the Variable
Designation	Designation of the Variable
UoM	Unit of measurement
Origin type	Origin of variable: - Formula - Table - Variant (from product configuration) - Item field - Order line - Manually (enter manually at run time)

© 2026 Boyum IT Solutions A/S

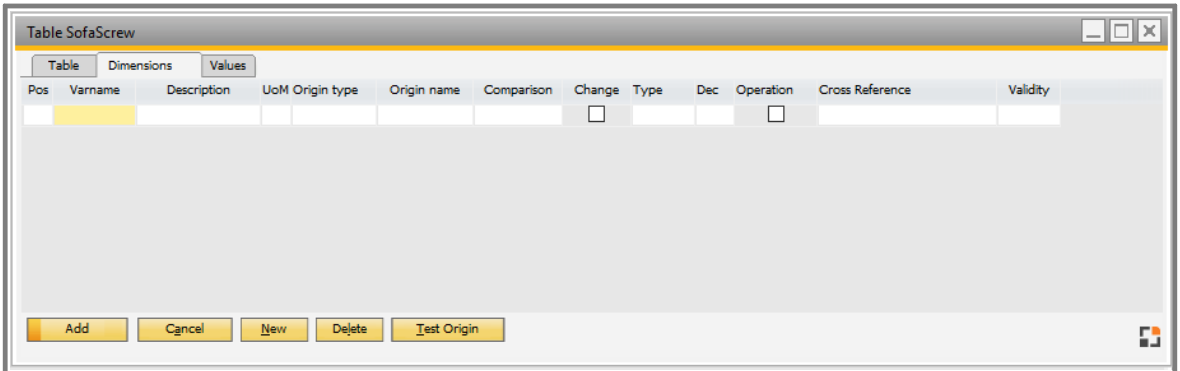
Field	Description
	- beas-Script
Origin name	Name of the object from origin type
Comparison	Desired logic for comparison - = (equal) - > (greater) - < (smaller) - => (greater or equal) - <= (smaller or equal)
Change	Allow changes at run time
Type	Output of formula ("numeric", "string" or "yes|no")
Dec	Number of decimals (if numeric)
Operation	Mark, to save the variable globally with prefix "agbez_". Then it can be accessed in a description of an operation. ***see*** Operation Variables
Cross reference	Enter a link (Only useful with origin type "manually" or "Change")
Validity	Validity of variable: - **local** (only within the formula and all formulas and tables called by it) - **shared** (within the assembly and for all following items, but not sub-assemblies) - **global** (in complete structure from the moment of calculation)

Test Origin button: ***See*** Test window.

Example for a two-dimensional table

The value depends on both the color and length. This could be the required time to upholster the sofas. Values can be stored for all combinations.

© 2026 Boyum IT Solutions A/S



Window caft_tabelle_dim_browse.psr

Procedure:

1) Create new table. Table name e.g. "**LaborTime**"

2) Select tab "Dimension" and insert table values

- Origin type: **Manually** (> This value will be asked at "Runtime" and is to be inserted via Keyboard by the User)

Pos	Varname	Description	UoM	Origin type	Origin name	Comparison	Change	Type	Dec
10	length	Cover length		Manually	B	=	x	Number	2
20	color	Cover color		Manually	B	=	x	Char.	

- Origin type: **Variant** (-> This value will be fetched at "Runtime" from the parameters (cover_len, cover_color) of the corresponding product configuration)

Pos	Varname	Description	UoM	Origin type	Origin name	Comparison	Change	Type	Dec
10	length	Cover length		Variant	cover_len	=		Number	2
20	color	Cover color		Variant	cover_color	=		Char.	

3) Select tab "Values" and insert table values

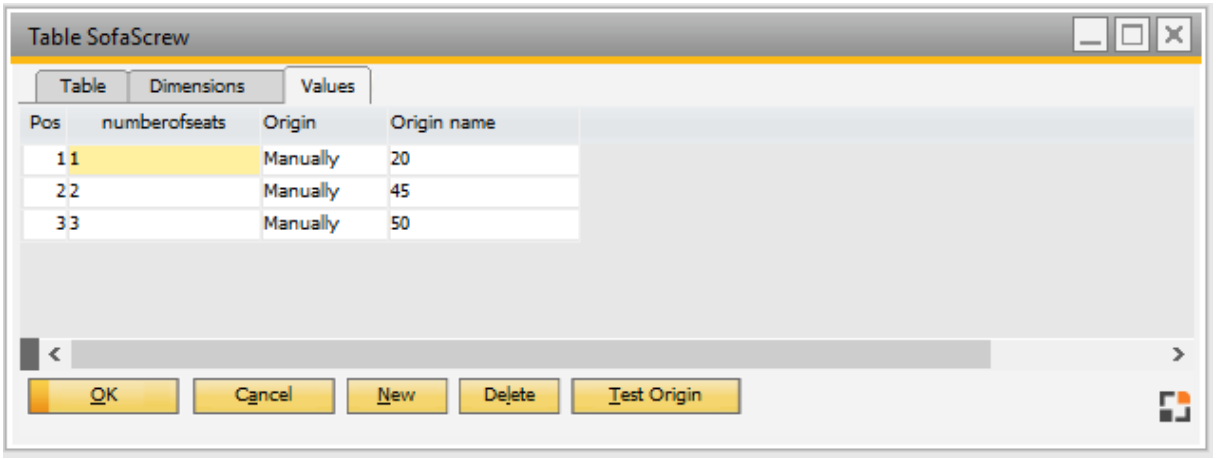
Pos	length	color	Value3	Value4	Value5	Value6	Origin	Origin Name
10	10	red					Manually	5
20	15	green					Manually	6
30	20	green					Manually	8

© 2026 Boyum IT Solutions A/S

if the length of the cover is "**10**" and the color is "**red**", then you'll get for table "**LaborTime**" at runtime the value "**5**" as result

8.15.3.3.3 Values tab

(Values for positions in dimensions tab)



Window caft_tabelle_werte_browse.psr

Field	Description
Pos	Position
<name of Variable 1>	Value for Variable 1
<name of Variable 2>	Value for Variable 2
<name of Variable 3>	Value for Variable 3
<name of Variable 4>	Value for Variable 4
<name of Variable 5>	Value for Variable 5
<name of Variable 6>	Value for Variable 6
Origin	Origin of variable: - Formula - Table - Variant (from product configuration) - Item field - Order line - Manually (enter manually at run time) - BeasScript
Origin name	Name of the object from origin type

© 2026 Boyum IT Solutions A/S

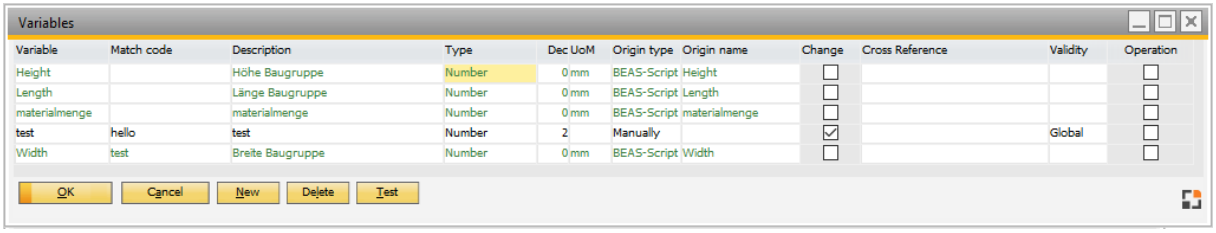
Test Origin button: ***See*** Test window.

8.15.3.4 Variables

Variables are pre-definitions (templates) of a time calculation through formulas and tables. The numeric or alphabetic assignment of variables can be:

- calculated in a formula
- read in a parameter list
- read in a table
- read from item, order line or order header
- determined from a freely definable origin type

Define the formulas and tables you want to use under the Variables menu option. The texts for description and unit of quantity are adopted when entering a variable name. However, you can also choose to describe the variables later in the actual formula or table.



Window caft_var_browse.psr

Field descriptions

Field	Meaning
Variable	Master name or key used to access the variable. Note the following here: - Variable names can be up to 20 digits long - Variables must begin with at least one letter - only the underscore '_' may be used as separator symbol - The number of variables is not limited - math symbols may not be used in variable names
Description	Arbitrary

© 2026 Boyum IT Solutions A/S

Matchcode	Free text
Type	Output of formula ("numeric", "string" or "yes/no")
Dec	For numeric: Number of decimal places. Number formats or number of decimal places are now adopted from the SAP Business One settings. Note: In Beas numbers are always formatted according to the Windows settings (Control Panel – Regional Settings), since all Beas fields are input fields conforming to Windows.
Unit	Unit of quantity as information such as piece, mm, etc.
Type of origin	Origin of the variable (How is the variable calculated?) – ***see*** Types of origin/Types.
Origin name	Details about the type of origin (e.g. for table -> name of table).
Change	Should the variable be entered or changed after calculation?
Selection	Should a selection list be available? If so, it can be defined here.
Link	Make available a selection list? Select link.
Validity	Validity and visibility: **local**: only within the formula and sub-tables and formulas called by it. **shared**: within the assembly for all following positions, but not for sub-assemblies. **global**: from the moment of computation visible in complete structure.
Operation	Mark to save the variable globally with prefix "agbez_". Then it can be accessed in a description of an operation. ***Example***: Local variable duration, "Operation" enabled

© 2026 Boyum IT Solutions A/S

	Is saved al grlobal variable "agbez_duration" and can be added to the description <v:agbez_duration> ***see*** Customzie BoMs and routings

Test button: ***See*** Test window.

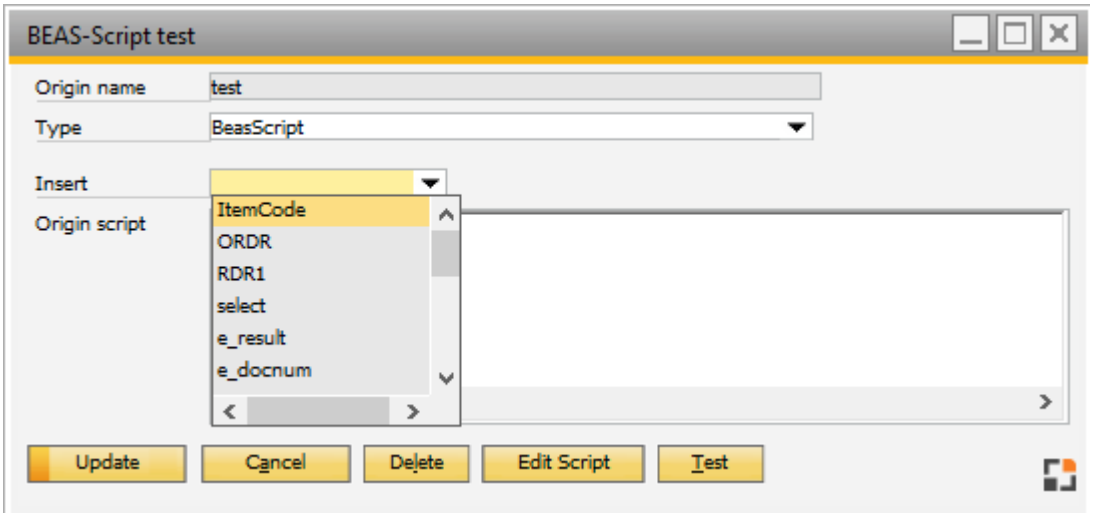
8.15.3.5 Beas-Script

This defines how a variable should receive its value, unless determining the value takes place through the default types of origin.

This can be

- a field from item or sales order table
- result of SQL statement
- a Beas or JBScript

With the Test-Button you can test the formula directly.



caft_herkunft_edit.psr

If the Type is BeasScript and the Origin Script is empty, you can choose "ItemCode","ORDR" "RDR1" or "BoMItemCode"

This allows you to create an SQL statement or insert the placeholder.

- Details:

© 2026 Boyum IT Solutions A/S

select	The result of the select statement is returned. Only one result may be returned. Placeholders can be inserted. example : return the assembly `select <e_itemcode,dbstring> from "BEAS_DUMMY"`
ORDR RDR1	Information from Sales Order or Sales Order line. Only if linked at creation time to a Sales order.
itemcode.	Information from the assembly: e.g. itemcode.u_beas_znr (= drawing number)
bomItemCode	Bill of Material item code e.g. `bomItemCode.usertext` *Beas 2020.06*
e_	Access to a Beas variable. All master data information in the current BOM position or routing position is available as Beas variables: ***See*** Pre-defined Beas variables

BeasScript

You can insert a complete BeasScript function. Return the result with
`setvar=e_result="your result"`
You have access to all Pre-defined Beas variables.

Example

```
if <e_quantity> n> 5 then
  setvar=e_result="ABC"
else
  setvar=e_result="DEF"
end if
```

JBScript

You can insert JBScript. Define result in the return command

return "your result";

Example

```
if (e_quantity > 5 )
  return "ABC";
else
  return "DEF";
```

Pre-defined Beas variables

The following additional Beas variables are set:

Note: All variables are BeasScript variables (strings).

© 2026 Boyum IT Solutions A/S

e_docnum	Order number (if a reference exists) – only available when creating a work order
e_docentry	Internal order number – table order – only available when creating a work order Note: Pre Invoice not supported
e_linenum	Internal order line – table rdr1 – beginning with 0 - only available when creating a work order
e_belnr_id	Work order number
e_belpos_id	Work order position
e_itemcode	Item number of the assembly
e_quantity	Quantity of the assembly (only work order and calculation)
e_info1	Assembly/BoM that is currently being broken down (only Work order and Pre calculation)
e_bomitemcod	Material number of the BoM position (identical with e_art1_id)
e_aktiv	Y/N: Should BoM/operation position be added?
e_BoMId	Bill of Material Id (e_pos_id on Bill of Materials Level))
e_RoutingId	RoutingId (e_pos_id on Routing Level)

8.15.3.6 Datawindow-Syntax

In Variant generator, unit of measurement calculation and in other areas for formulas DataWindow-Syntax is used. This is to give a short overview of available functions. Further details ***see*** online Powerbuilder-descriptions.

- Mathematical symbols (operators)

Mathematical symbols (operators)

+	Addition (numbers) or consolidation (characters)
-	Subtraction
*	Multiplication
/	Division
^	Power

Auxiliary symbols

(	Left parenthesis
)	Right parenthesis

© 2026 Boyum IT Solutions A/S

.	Decimal separators **(all nationalities !!!)**

- The formula must be logical, '('must be followed by')' etc.
- Any level of nesting is permitted.

Numeric functions

abs	Absolute – removes the sign	abs(-3) = 3 abs(3) = 3
ceiling	Return of the next higher integer	ceiling(-4.2) = 4 ceiling(-4.8) = 4
cos	The angle (in rad) for which the cosine should be calculated	cos(0) = 1 cos(1) = 0.540302
exp	The power for the exponential e (2.71828)	Exp(2) = 7.3890560989
fact	Value for the faculty	fact(4) = 24 fact(0) = 1
int	Rounds down to the next integer	int (3.8) = 3 int (-3.2) = 4
log	Calculates the natural logarithm of a number	log(10) = 2.302585092
logten	Calculates the logarithm to base 10	logten(10) = 1
mod	Calculates the remainder of a division	mod(20, 6) = 2 mod(25, 4.5) = 2.5
pi	Multiplies Pi by the specified number	Pi (1) = 3.14159265
Border	Random number between 1 and specified number	rand(20) = 1 ... 20
round	Rounds the number from the specified position	round(3.333,2) = 3.33 round(3.335,2) = 3.34 round(324,-2) = 300
sign	Calculates whether the number is negative, zero or positive. (by checking the sign)	sign(5) = 1
sin	Calculates the sine of an angle	sin(1)=0.84147098
sqrt	Calculates the square root of a number	sqrt(2) = 1.414213562
tan	Calculates the tangent of an angle	tan(1) = 1.55741
truncate	Reduces a number to the specified places	truncate(9.22, 1) = 9.2 truncate(9.28, 1) = 9.2

© 2026 Boyum IT Solutions A/S

Logical formulas

Beas also permits the use of logical formulas with the following structure:

```
if ( logic , value by true , value by false)
```

e.g.

```
if ( red = blue , 3.34 * x , 0 ) + (x * 2)
```

Logical characters and functions

=	Both values are identical	Price = 100
>	Left value greater than right value	Price > 100
<	Left value smaller than right value	Price **<** 100
<>	Left value is not right value	Price <> 100
>=	Left value greater than or equal to right value	Price >= 100
<=	Left value smaller than or equal to right value	price <= 100
NOT=	Left value is not right value	Price **not =** 100
LIKE	Left value is part of right value	Name **like** 'C%'
IN	Left value contained in right list	Price **in** (100,200,300)
BETWEEN	Left value is in the range of	Price **between** 1000 and 2000
NOT LIKE	Left value is not in right value	Price **not like** 'C%'
NOT IN	Left value is not in right list	Price **not in** (100,200,300)
NOT BETWEEN	Left value is not in range	Price **not between** 1000 **and** 2000

LIKE works with placeholders:

`%` Any number of characters

`_` Any single character

Example:

`'c%'` corresponds to any string beginning with c

`'c_'` corresponds to any string beginning with c and containing one additional arbitrary character

Logical links with "if"

Conditions can be linked with AND and OR as well as with NOT AND/OR:

© 2026 Boyum IT Solutions A/S

```
if ( x = y and x = z ,1,0)
if ( x = y or x = z,1,0)
if ( x = y and not x = z,1,0)
```

- Logical formulas with "case"

With **case** different results can be returned depending on a condition.

```
case ( column when value1 then result1 { when value2 then result2
   { ... } } { else resultelse } )

case (marriage_status when 'S' then 'Single' when 'M' then 'Married' else 'Unknown')
```

- Working with characters (strings)

Characters can be processed.

Characters are combined through +

```
a = "Adam"
b = "Eve"
a + " " + b = "Adam Eve"
```

The beginning and end of a string must be identified.

The following identifier fields are permitte:

```
"       "Hello World"
'       'Hello World'
[.]     [Hello World]
```

The use of identifier fields in string fields is permitted if the string begins with a different identifier field:

`"[Hello] 'World"'` Result: **[Hello] 'World'**

There are many character editing functions:

fill	Returns a filled string	fill("*"),3) = "***" fill("-+"),5) = "-+-+-"
left	String that is truncated at the right	left("hello world,6)="hello "
lefttrim	String that is truncated at the right and has blank spaces removed	leftright("hello world,6)="hello"
len	Return of number of characters in a string	len("hello") = 5
lower	Swaps uppercase letters in a string for lowercase letters	lower("Hello") = hello
match	Checks characters used (for more	match("A","^[A-Z]) = true

© 2026 Boyum IT Solutions A/S

	information, see Sybase Infomaker)	
mid	Returns the specified part of a string	mid("Hello",2,2)= "al"
Pos	Returns the position of a given string in the first string	pos("Hello","l") = 3
replace	Replaces a string in another string	replace("David", 4, 2, "e") = "Dave"
right	String which is truncated at the left	right("hello world",5)=" world"
righttrim	String which is truncated at the left and has blank spaces removed	righttrim("hello world",5)="world"
space	Returns specified number of spaces	space(5)=" "
string	Converts a number, date, character into a formatted string. Observes international settings in doing so.	string(5.2344,"#,#0.00") Germany: "5,23" USA: 5.23
trim	Removes the spaces left and right	trim(" hello ") = "hello"
upper	Swaps lowercase letters in a string for uppercase letters	upper("Hello ") = "HELLO"
wordcap	Converts first letter into a capital letter and the remainder into lowercase letters.	wordcap("boston, MASSACHUSETTS") = "Boston, Massachusetts"

Used for ***example*** in

Variant generator - Formulas

Work order structur view - Adaptation

8.16 Production Cockpit

The Production Cockpit window is a centralized interface that displays an overview of the current production status and allows users to quickly access key information, track the status of work orders, and efficiently manage their daily tasks. *(Beas 2025.06)*

What can you do with the Production Cockpit?

- View the current status of all your Work Orders (WOs): new, delayed, pending, or missing materials.
- Check which resources are in use, available, or interrupted.
- Monitor real-time production progress, with detailed information by operation.

© 2026 Boyum IT Solutions A/S

- Access the most up-to-date list of material requirements.

Immediate benefits:

- Instant Information: Quickly access real-time work order status, eliminating time-consuming searches.
- Efficient Planning: Easily identify and prioritize the latest orders, enhancing production scheduling.
- Timely Issue Resolution: Swiftly spot delays and material conflicts, enabling prompt decision-making.
- Streamlined Navigation: Directly access main tasks, reducing menu navigation for faster actions.

Initial setup:

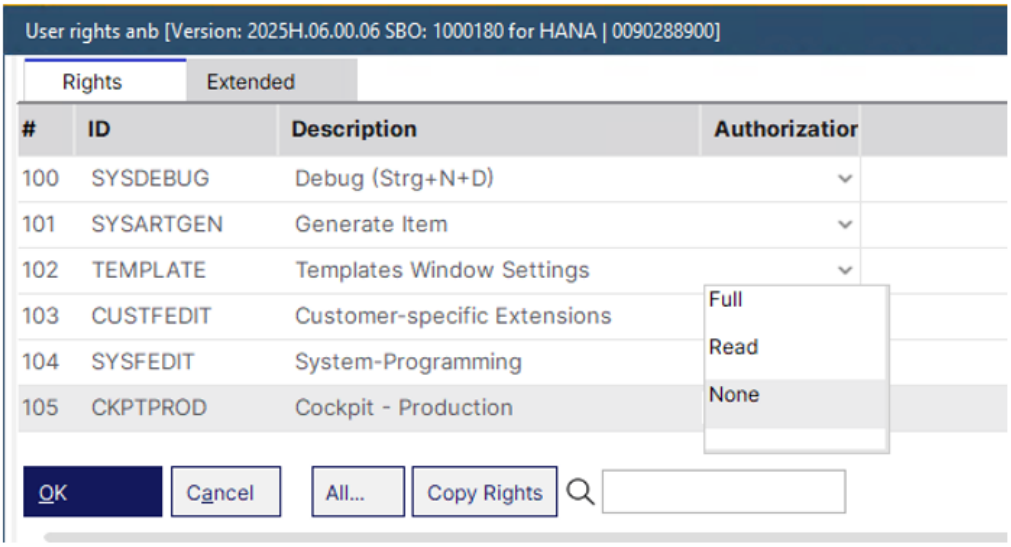
1. Run the Beas Service.

2. Activate "Calculate Material requirements for Cockpit" planned activity in the Beas Manage Server. **IMPORTANT:** Make sure that Beas Service is running; planned activities do not run without the Beas Service.

3. Edit and customize this planned activity to your needs: running the calculation on the selected days of the week, with the custom frequency (e.g. hourly).
Default setting: Daily, Monday to Sunday, from 8:00AM to 11:00PM on an hourly basis.

Rights activation for the Beas user:

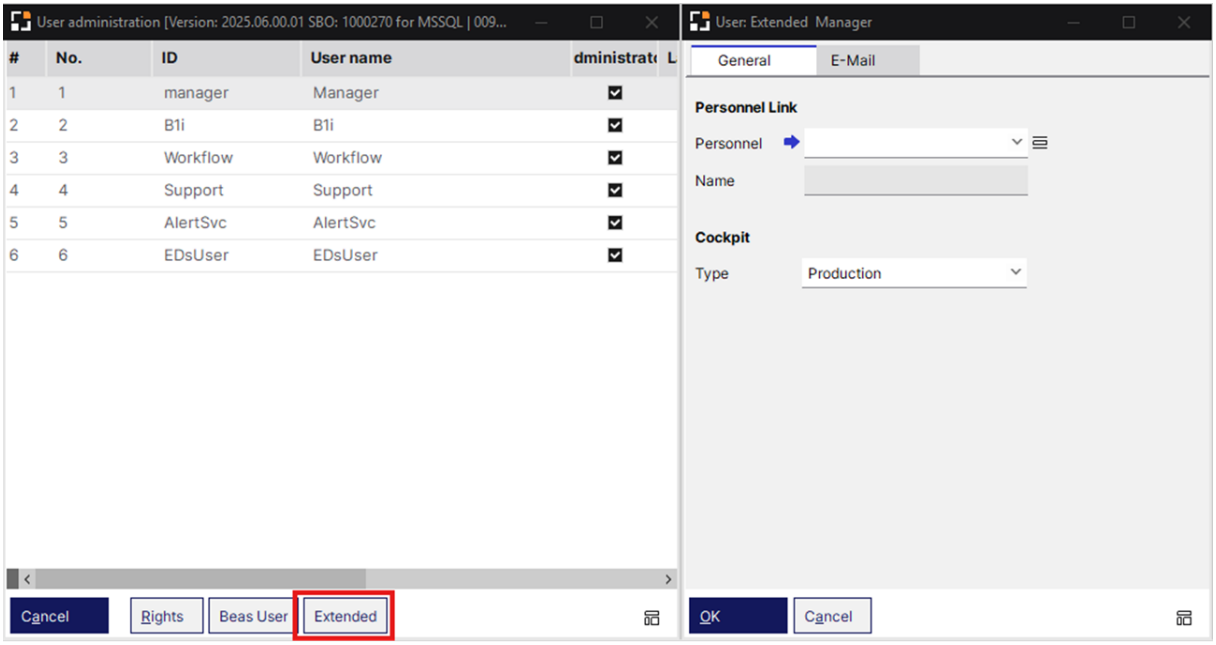
1. Rights for the Production Cockpit must be set up by the system administrator in the User administration rights extended option:



2. When user rights have been set up, the cockpit window can automatically be activated for the user when clicking the "Activate Cockpit" button in the "What's new window" upon Beas startup.

© 2026 Boyum IT Solutions A/S

Or the System administrator can change the Cockpit Type manually in the User administration extended setting:



Open the Production Cockpit:

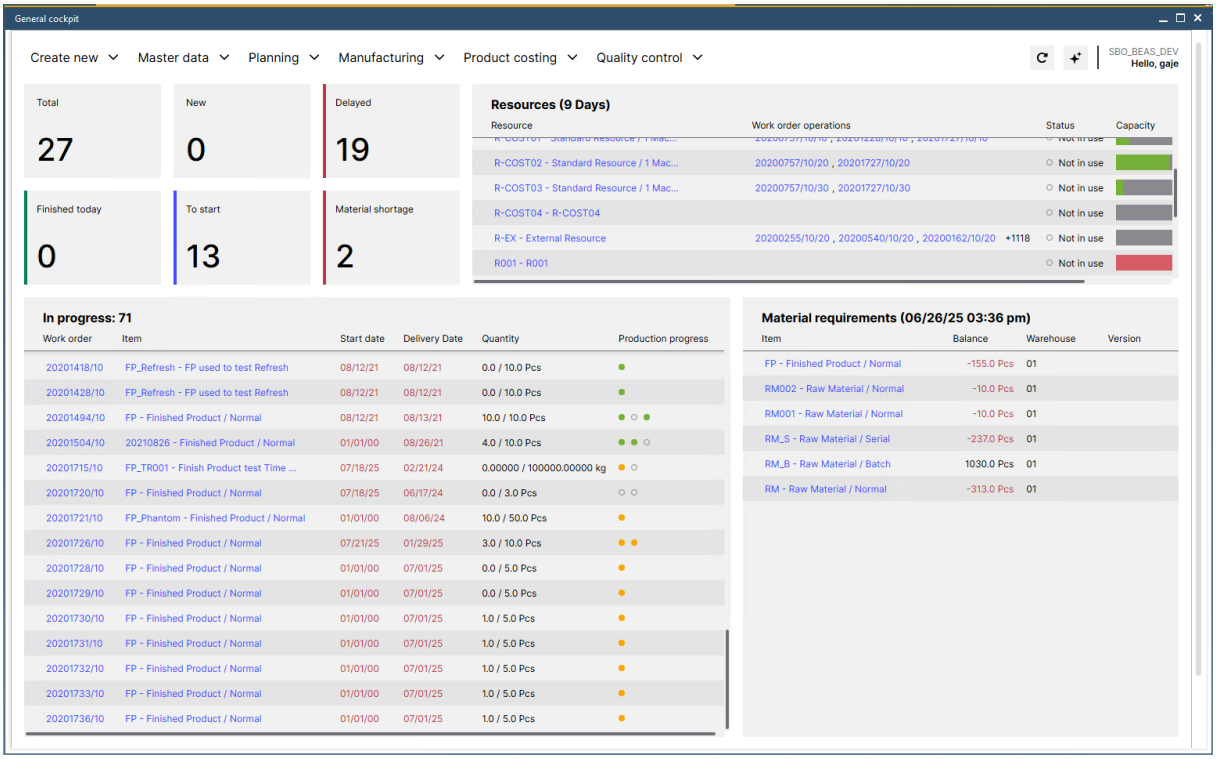
PATH:

Beas: Tools > Cockpit > Production

OR

SAP B1: Tools > Cockpit > Production

© 2026 Boyum IT Solutions A/S



Window: general_cockpit.psr

Top menu

Menu (drop-down) entry	Description
Create new	Create a new: - Work order - Item (generate new item) - Time receipt
Master data	Open related master data: - Item (Item report window) - Resources - Personnel
Planning	Open planning modules: - MRP (material requirements planning) - Resource scheduling - APS (Advanced planning and scheduling)
Manufacturing	Open: - Work orders - Time receipt administration

© 2026 Boyum IT Solutions A/S

Menu (drop-down) entry	Description
Product costing	Open calculation related functions: - Calculation schema - Batch calculation - Post calculation - Cost elements
Quality Control	Open QC modules: - Quality Control orders - Inspection plans
	Click this button to refresh cockpit information.
	Click this button to access the Beas AI Assistant.

Filter buttons

The total amount of WOs grouped in different statuses. You can open the WOs list filtered by one of these statuses.

Total: The number under the filter represents the count of all work orders. Click the filter to open the Work orders window displaying all WOs.	**New:** The number under the filter represents the count of new work orders. Click the filter to open the Work orders window displaying only the new WOs.	**Delayed:** The number under the filter represents the count of delayed work orders. Click the filter to open the Work orders window displaying only the delayed WOs.
Finished today: The number under the filter represents the count of work orders finished today. Click the filter to open the Work orders window displaying only the WOs finished today.	**To start:** The number under the filter represents the count of work orders that have not been started yet. Click the filter to open the Work orders window displaying the list of WOs that need to be started.	**Material shortage:** The number under the filter represents the count delayed work orders with material shortage. Click the filter to open the Work orders window displaying a list of WOs with material shortage.

Resources (X days)

© 2026 Boyum IT Solutions A/S

A table with all the resources. It shows a list of WO operations that are using these resources (in a predefined period of days) and if it is currently not in use, working or interrupted.

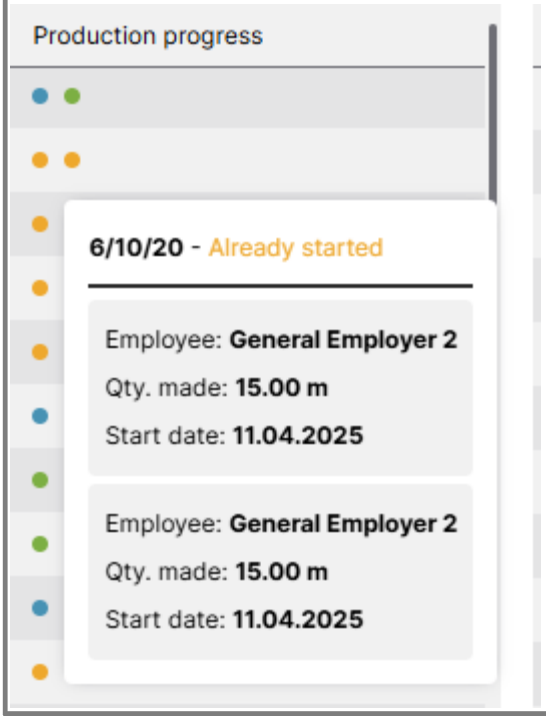
Resource	Name of the used resource. Sorting by this field is supported. Sorting by this field is supported.
Work order operations	The linked operation sequences listed, separated with a comma. Sorting by this field is supported.
Status	The status of the resource in the WO operation: • *Not in use* (gray) • *In progress* (green) • *Interrupted* (red) Sorting by this field is supported.
Capacity	Displays planned capacity in gray (according to resource scheduling) and currently dispatched capacity in green. The covered time period in utilization column is set up in: **Configuration wizard > Production > Display > Structure view > Dispatching index: number of days to be considered.**

In progress: XX

The table shows all the opened work orders that have at least one operation already started or done. When scrolling to the end of the first 30 entries of the list, the system loads the next 30 entries.

Work order	Linked work order. Sorting by this field is supported.
Item	Linked item. Sorting by this field is supported.
Start date	Start date of the work order. Sorting by this field is available.
Delivery date	Delivery date of the work order. Sorting by this field is available.
Quantity	Work order quantity
Production progress	Shows the status of production progress of each operational sequence with a colored dot: - GRAY: Not started - YELLOW: Already started - BLUE: In progress - GREEN: Completed Hovering over the colored dots (representing the individual operation sequences of a work order) opens a pop-up screen with information on

© 2026 Boyum IT Solutions A/S

Work order	Linked work order. Sorting by this field is supported.
	the date, the Start date, the clocked-in employee and the quantity produced by that employee: 

Material requirements: (dd.mm.yyyy hh:mm)

A table with the last calculated material requirements list. The dd.mm.yyyy hh:mm information shows the exact time of the last calculation for material requirements.

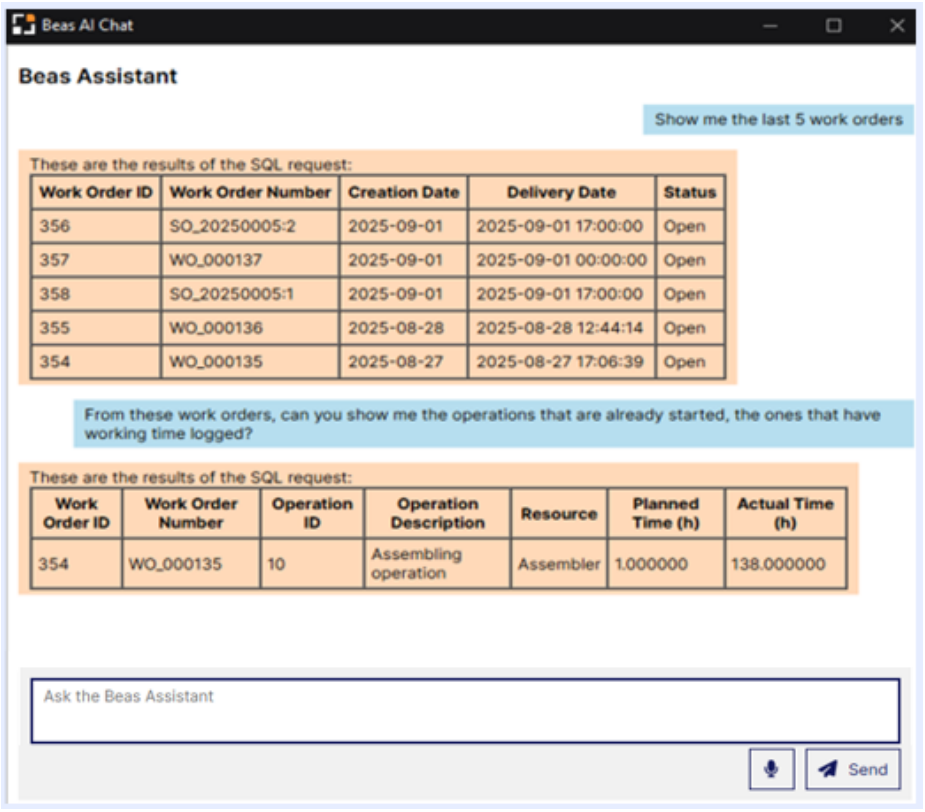
Item	Linked item. Sorting by this field is supported.
Balance	Total balance of stock for all work orders. Sorting by this field is supported.
Warehouse	Warehouse code. Sorting by this field is supported.
Version	Item Version number. Sorting by this field is supported.

8.17 AI Assistant

With the help of the Beas AI Assistant (*Beas 2025.09*) you can perform certain processes by using Artificial Intelligence.

IMPORTANT Prerequisite: Perform the required settings in the Configuration wizard.

© 2026 Boyum IT Solutions A/S



Window beas-ai-chat.psr

The ChatGPT-based AI Assistant can retrieve data from the database or create documents.

Available functionalities:

- Creating documents: Work orders, Time receipts and Goods receipts/issues.
- Retrieving data: from Beas Work orders or from any SAP B1 table. When retrieving data from the database, the result can be presented in formatted tables.

IMPORTANT: Data retrieval and document creation do **not** cover all fields!

- Supported fields:

Document creation:

- WORK ORDER
  - Card Code
  - Card Name
  - Start Date
  - Work Order Position
  - Item Code
  - Quantity to produce

© 2026 Boyum IT Solutions A/S

- Warehouse code
- UDF 1-4

TIME RECEIPT

- Document Entry
- Description
- Line Number (WO Position ID)
- Line Number 2 (WO operation ID)
- Personnel ID
- Produced Quantity
- Duration
- Scrap quantity
- Manual booking
- Remarks
- UDF1-4

GOODS RECEIPT

- Description
- Item Code
- Warehouse Code
- Quantity to receipt
- Lines:
  - WO Document Entry
  - WO Document Position
  - WO Document Material Position
  - UDF1-4
- Remarks
- UDF1-4

GOODS ISSUE

- Description
- Item Code
- Warehouse Code
- Quantity to issue
- Lines:
  - WO Document Entry
  - WO Document Position

© 2026 Boyum IT Solutions A/S

- WO Document Material Position
- UDF1-4

- Remarks
- UDF1-4

Retrieving data:

WORK ORDER

Work Order Position

- Document Entry (WO ID)
- Document Num (WO number)
- Line Number (Position ID)
- Document Date (Creation Date)
- Delivery Date
- Item Code
- Item Name
- Quantity (Planned Qty)
- Produced Quantity
- Closed

Work Order BoM

- Document Entry (WO ID)
- Document Number (WO number)
- Line Number (Position ID)
- Line Number 2 (Material ID)
- Item Code
- Item Name
- Quantity (Planned Material Qty)
- Booked Quantity (Produced Qty)
- Unit of Measurement
- Closed

Work Order Operations

- Document Entry (WO ID)
- Document Number (WO number)
- Line Number (WO Position ID)
- Line Number 2 (WO Operation ID)
- Description

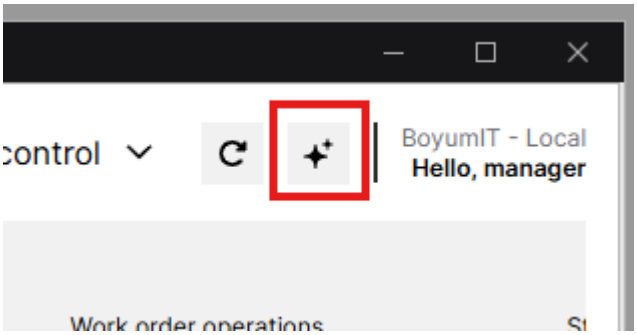
© 2026 Boyum IT Solutions A/S

- Start Date Time
- End Date Time
- Resource ID
- Resource Description
- Planned Time
- Working Time
- Closed (WO Status)

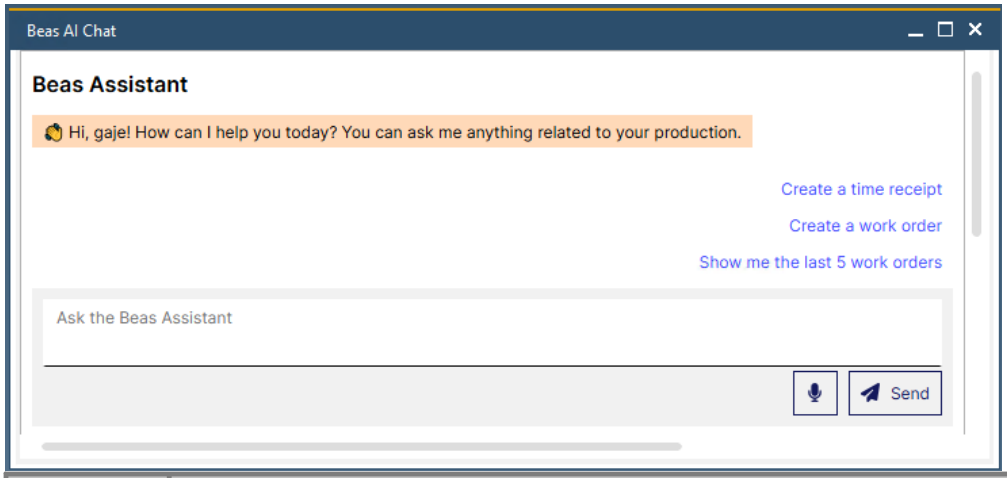
Access

Prerequisite: To access the Beas AI Assistant, you must have an Open AI key set in the Configuration wizard or in the User configuration:

You can access the Beas AI Assistant chat by clicking this button in the right top corner of the Production Cockpit:

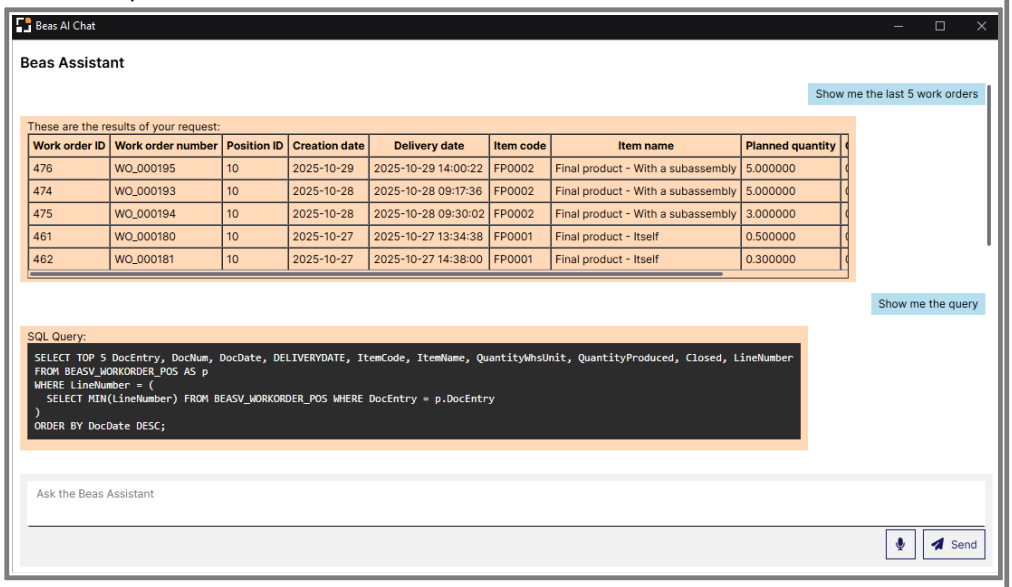
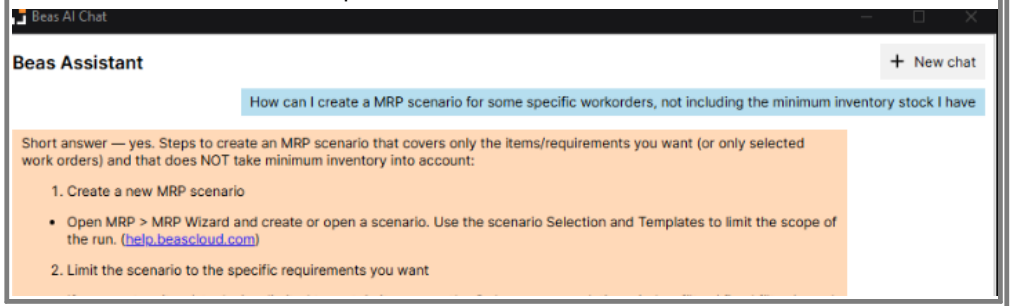


Field descriptions

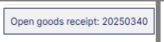


Field/Area	Description
Chat history	The top left window section contains the history of all requests sent to the AI Assistant. When the window is opened, its lower right section features some typical

© 2026 Boyum IT Solutions A/S

Field/Area	Description
	requests to click on to start conversation with the AI e.g. "Create a work order" or "Show me the last 5 work orders".
Chat area	Type your request to the AI Assistant in the chat area. If you omit necessary information, the Assistant returns a message requesting a list of mandatory information. With every new message sent to the assistant, the window is automatically scrolled down to see the AI response. When requesting some information from the database, it is possible to get the query executed to see the current results. By default, only a table is shown unless you request the query. − Query in the chat result:  − Access Beas documentation Connect to the Beas Documentation directly from the chat, giving clear steps and references on the user's request: 
+ New chat	Click on this button to create a new chat and reset chat history.

© 2026 Boyum IT Solutions A/S

Field/Area	Description
	Click on this (microphone) button to submit your request over the microphone configured for the system.
/	Click on this button to send your typed/speech-to-text request from the Chat area.
 Open Goods issue: XXX Open Work order: XXX Open Time receipt: XXX	When creating a Work order, a Time receipt or a goods receipt/issue document, this button provides direct access to open and check the data of the created document.

© 2026 Boyum IT Solutions A/S

9 MRP

Beas is equipped with an extended integrated materials management feature, optimized for practical application in production.

MRP Wizard
Order recommendation: overview
Purchase request (Beas)
Production Request
Forecasts

Material Requirements Planning (MRP) enables you to plan material requirements for a manufacturing or procurement process. The requirement is calculated and it results from customer orders, work orders and forecasts.
MRP calculates gross requirements at the lowest BoM levels by carrying down net parent demands through the BoM structure. Dependent levels might have their own requirements, based on sales orders and forecasts. Planned receipts from production, scheduling and reservations are taken into account.
The results of the MRP run are recommendations that fulfill gross requirements by taking into consideration the existing inventory levels and existing Purchase Orders and Production Orders. The MRP run also takes into account defined planning rules for Multiple Order and Minimum Order Quantity.
MRP2: Beas provides the possibility, to calculate both, material requirement and resource utilization for a scenario.

MRP is a stock planning tool.
For order-related planning, use function Sales order to Production Order.
For complex scheduling you may use the MRP Wizard.

The MRP Process:

- The Scheduling process

1. **Create** an MRP scenario and customize all settings for scheduling.
2. **Calculation** Calculation methods are explained in separate chapters:

© 2026 Boyum IT Solutions A/S

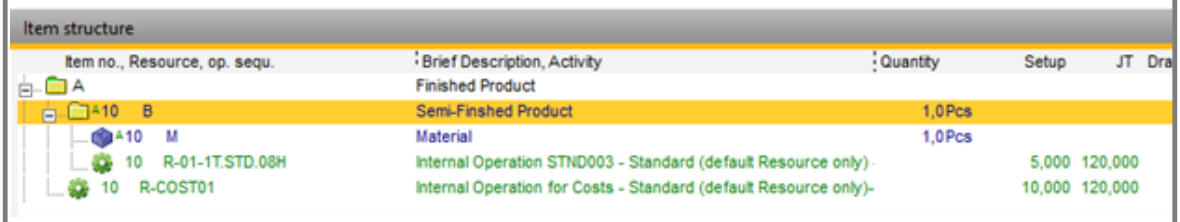
Calculation of order proposal date Calculation of material: Requirement coverage calculation For extensive planning you can schedule an automated calculation.
3. **Result** of the calculation: Order Recommendation.
4. From the order requirement, Purchase requests are created.

- MRP coverage calculation

The requirement coverage calculation checks which components are required for a sales order:

MRP always breaks down the assembly requirements (e.g. from customer orders). If the sub-requirement (BoM of an assembly) is again an assembly, the system first checks whether this can be covered by stock or by planned inflow. If not, this is broken down further. For this, the planned inflow is temporarily assigned to the planned outflow during calculation.

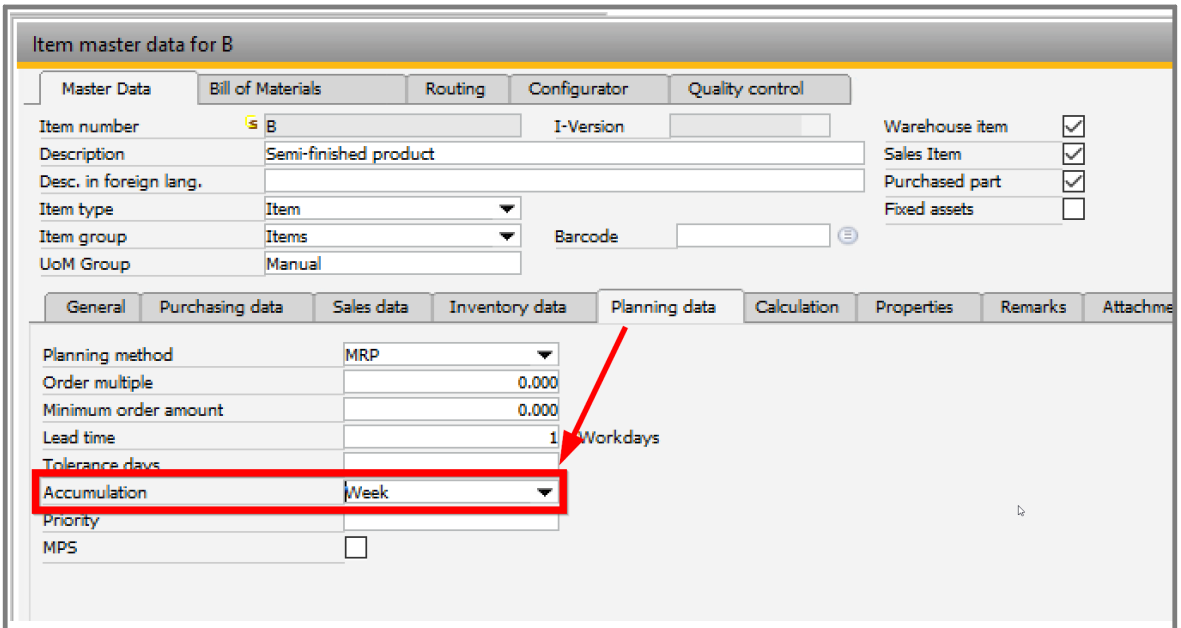
Example:
Sales order with Finished Product “A”
This product needs Semi-Finished Product “B” and “B” needs Material “M”



During the calculation of MRP, Beas considers “A” as necessary. As it is order-related, the system does not check stock. You must produce this. “B” is stock-related. The system must produce it only if no stock is available. Beas checks the stock. If available, the system reserves the requirement temporarily for this Sales order.
If no stock is available, the system simulates the production of “B” and creates a requirement for “M”.

Note:
“B” is stock-related. Beas calculates this related to the requirement of the sales order. But it uses it in view of a stock-related item. In the result you can see the Sales order which produced the requirement during calculation, but the result is always stock-related.
For stock-related items it is always better to receive the correct view in MRP. You can do this with the setting “Accumulation” = Day/Week/Month ...

© 2026 Boyum IT Solutions A/S



The reservations calculated during MRP processing are made at a time when it is not yet known which sub-finished goods or materials are actually needed. At the time of MRP calculation, the full balance calculation for each item is not yet known when processing a single document (work order, sales order etc.) Therefore, Beas uses the priorities described below for assigning the temporary reservation to different pegging originators.

1. Minimum inventory
   [+] Example: Item “A” stock-related, Stock: 6 Pcs, Minimum 10
   The system simulates a production order from 4 Pcs. This produces a requirement for 4 Pcs for semi-finished product “B”.
   The requirement date for the finished-product (in this case “A”) is always today.

2. Existing production outflow (BoM) of work orders and planned orders
   [+] Order by Delivery Date ascending, Document Number
   Example: Work order existing for Finish Product “A”, 10 Pcs
   This is Bill of Materials position “B”. If no stock is available, the system simulates a production order for semi-finished Product “B” and this produces the requirement for Material “M”.

3. Customer orders, advance invoices, forecasts with setting "like customer order"
   Order by Delivery Date ascending, Document Number

© 2026 Boyum IT Solutions A/S

4. Transfer Requests
   Order by Request Date ascending, Document Number

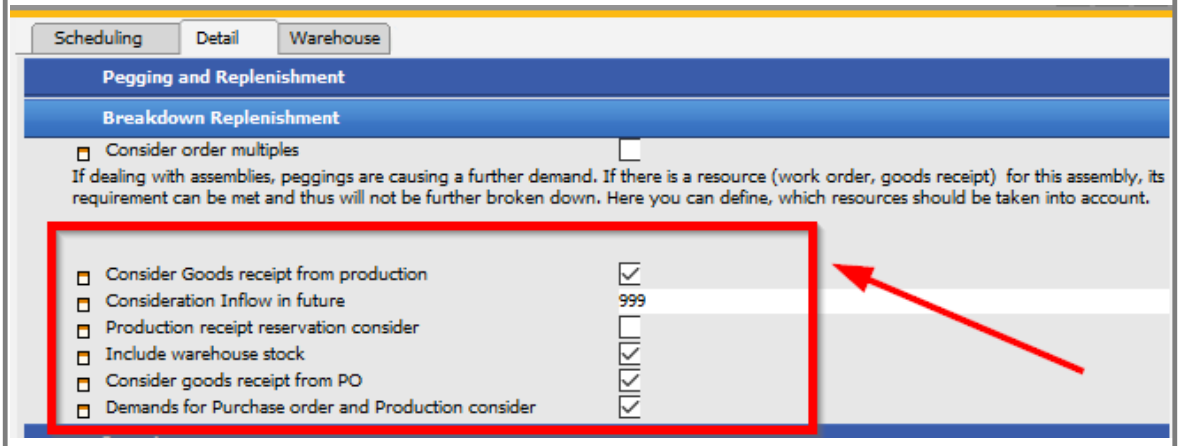
5. Forecasts (Default)
   Order by Plan Date ascending, Document Number

The System calculates all Minimum-Inventory requests first, then the Production order and so on. The system does not sort all requirements in one date line. The result can be a wrong order or temporal reservation for stock-related semi-finished products. But in general, this is not a problem, because it is a stock related item.

The system does not only consider stock. The following inflow is considered in order:

1. Remains from order multiples
2. Inventory
3. Production receipts, ascending by date of receipt
4. Purchase receipts, purchase and production requests, ascending by date of receipt

This behavior can be controlled with the respective options of an MRP calculation scenario:



The reservation criteria above are used by Beas in “real time” during the MRP calculation and should not be confused with a the fixed reservation that a user can do by linking stock quantities to a sales order line or the lines of a Work order BoM.

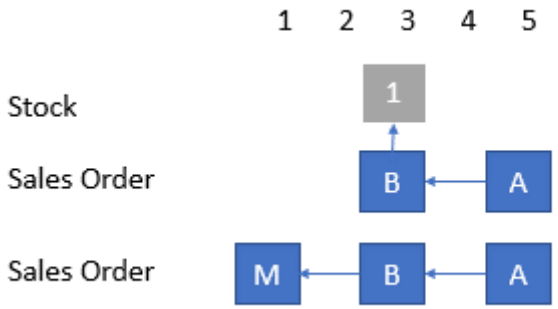
The temporary reservation determines whether sub-assemblies are broken down any further. In case of working with fixed reservations, the reserved material is always firmly linked to a pegging, and it may not be assigned to another pegging.

© 2026 Boyum IT Solutions A/S

Example: Item "A" has stock-related sub-assembly "B" with Material "M".
There are 2 sales orders for the same item "A", same quantity with the same delivery date and we currently have only 1 Pc in stock for assembly "B".

In this case, the first Sales (lowest Doc Number in SAP) order creates a requirement for "B" and the system covers this temporarily with stock.

For the second sales order, no stock for "B" is available, and the system checks which material you need in order to produce "B". In this case, it creates a requirement for Material "M".



Final balance result of the MRP calculation:

Saldo Item A: -2
Saldo Item B: -1
Saldo Item M: -1

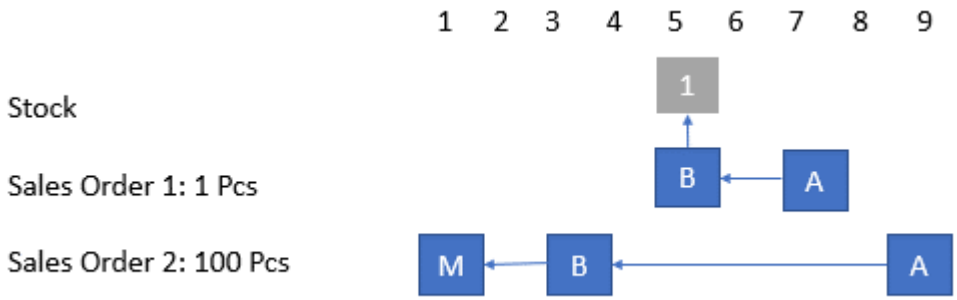
Here are some issues that might arise in reading the MRP calculation results in relation with the time-line of a stock-related sub-assembly:

Sales order 1: 1 Pcs, Delivery Date: 7th
Sales order 2: 100 Pcs, Delivery Date: 9th (later)
This produces different durations for the requirement of sub-assembly "B", because you need more time for the production of Sales order "2".

© 2026 Boyum IT Solutions A/S

The system calculates Sales order 1 and covers the stock for stock-related assembly "B".

Then, the system calculates Sales order 2 and no stock is available. The system simulates the production for “B” and creates the Material requirement for Sales order 2.



In the Saldo List for “B” you can see:

stock related item "B"	Date	Issue	Balance
Sales order 2	3th	100	-99
Sales order 1	5th	1	-100

and for the Material:

stock related item "M"	Date	Issue	Balance
Sales order 1	1th	100	-100

This means: when reading the MRP calculation results, you might see the requirements of an item at a lower level of a product structure in a different order than at the calculation time.

Note: If you use precalculation inside a sales order, the production time is always 0. This is because Beas does not support the calculation of the production time of a product structure in a calculation linked to a sales order line.

Example Sales order with Calculation:
Sales order 1 with Item “A” with calculation, 100 Pcs, Delivery Date: 10th March
Sales order 2 with Item “A” without calculation, 100 Pcs, Deliver date: 9th March
This produces a requirement for item “B”:
Sales order 1: 10th March (no calculated production time)
Sales order 2: 5th March
In MRP, first you can see Sales order 2 (sorted by requirement date), but the system calculates

© 2026 Boyum IT Solutions A/S

Sales order 1 first , and uses the existing stock for “B” for this sales order.
Note: Item “B” is stock-related. If you try to see order-related result for stock-related items, the system cannot deliver this.

Note:

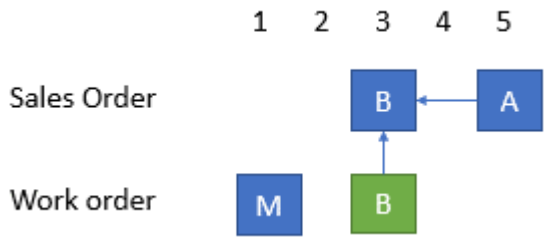
All production receipts are taken into consideration, regardless of the warehouse they are posted to. Warehouse settings defined in “MRP calculation scenarios – Warehouse” are **not** considered here.

The temporary reservation calculated by MRP can be displayed after the computation in **Order recommendation report > Origin**.

In this list, all temporary links are displayed in a structure view. See origin of requirement structure.

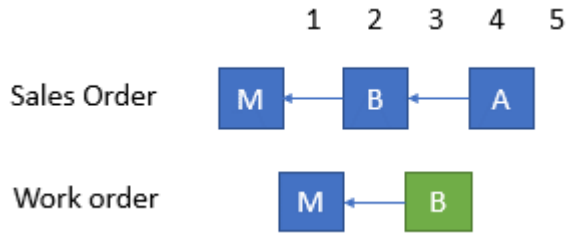
Consider inflow in future

If the date of delivery would be taken into consideration, the following problem could occur:
Assembly “A” contains assembly “B” with material M1.
Sales Order: assembly “A” on May 5th
Requirement of assembly “B” on May 3rd and material M1 on May 1st.
Work order is created for May 3rd, material is ordered for May 1st.
All requirements are covered.



The customer asks for a delivery one day earlier, on May 4th:
If the requirement coverage calculation would take into account the delivery date, the work order would no longer cover the requirement.
In effect, assembly “B” would be broken down, although the balance is 0. From the work order and the sales order a requirement would arise for material M1, and thus it would be ordered twice.
To prevent this, the delivery date is not considered.

© 2026 Boyum IT Solutions A/S



The delivery date is taken into account, but it may be in the future. This is set up in **Configuration wizard > Detail > Breakdown replenishment > "Consideration of future receipt"**.
The delivery date is not taken into account - except for point 1 - since otherwise there would be a risk that the sub-material is dispatched twice. For this reason, **Configuration wizard > Detail > Breakdown replenishment > "Consideration of future receipt"** parameter is set to 99 days.

If "Consider inflow in future" is activated, the system covers the work order, which is 1 day in the future and you need in the example the Material "M" only e.

Filter *Only shortage*
This filter shows all items that need to be ordered or produced, or for which the planned inflow is too late.
In this case, assembly "B" would be shown as shortage, as the balance for 4th May is negative.
The inflow to be used can be specified in **MRP wizard > Detail > Breakdown of resources**.

Further video content:

Webinar Planning MRP, forcasting, minimum inventory, dates (2017)

Sales order

Sales order: Hard stock reservation

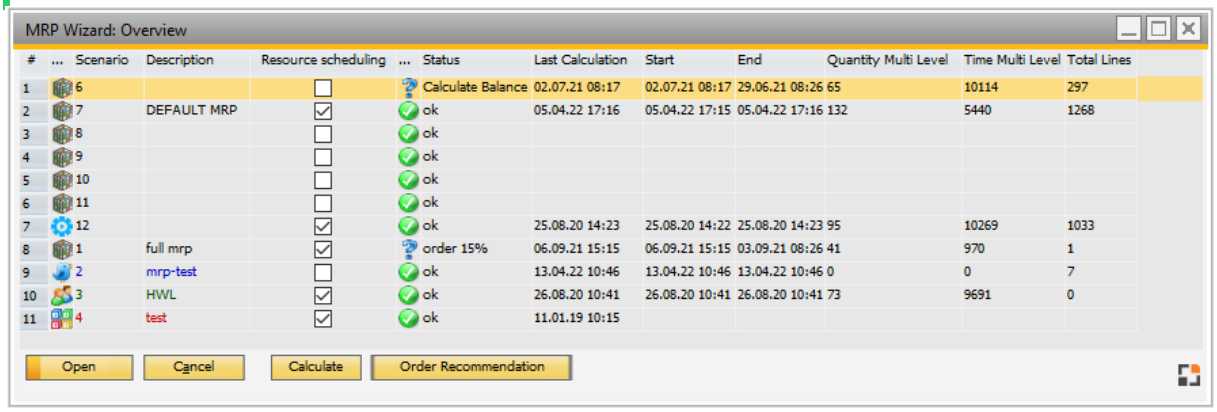
9.1 MRP Wizard

The MRP Wizard helps you plan required quantities for complex manufacturing processes, to define new planning scenarios and to analyze the MRP results. In order that the product is manufactured by the desired time and in the required quantity, the MRP Wizard creates recommendations for the purchase and production.

© 2026 Boyum IT Solutions A/S

When opening the MRP Wizard all created scenarios are shown in a list.

PATH: MRP > MRP Wizard.



Window mrp_browse.psr

Window settings are supported.

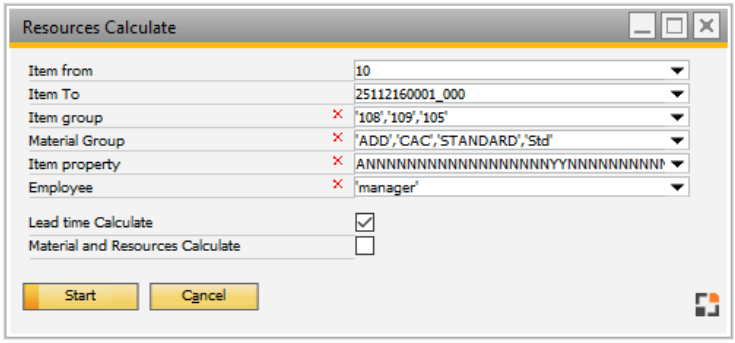
To edit a scenario you need the MRP wizard authorization and editing rights stored in the scheduling.

The result of the calculation can be seen in this window or, with lower authorization, in the Order recommendation – overview.

List

Field	Description
Icon	Status of the current scenario: • Green (OK) = Ready • Blue (Question mark) = in work • Red (Stop) = an error occurred during the computation
Scenario	ID of the plan For better overview, the display order can be changed by clicking and dragging a a line.
Description	Long description of the plan.
Last calculation	The date of the last calculation run.
Calculate automatically	The MRP is calculated automatically by the server at activation. For further information ***see*** Automatic calculation.
Status	The current status. In case a calculation is being carried out on another station, the order recommendations cannot be displayed as long as the plan is not in "OK" status.
Calculate resources	Indicates whether resource scheduling (MRP2) was activated. ⊟ The function opens the "Resources Calculate" window

© 2026 Boyum IT Solutions A/S



Window artikel_resourcenberechnung.psr

Field	Description
Item from/to	Include a range of items in the calculation with these two fields.
Item group	Select item group(s) to include in the calculation.
Material group	Select material group(s) to include in the calculation.
Item property	Select item properties to be displayed.
Employee	Select employee(s) to perform the calculation for.
Lead time Calculate	Activate to calculate lead time for selected entries.
Material and Resources Calculate	Activate to calculate material and resources.

Functions

Field	Description
Open	Edit the parameters of the selected MRP scenario. Opens a new window.
Add	Create a new MRP scenario. Another window is opened with three tabs. Planning, Detail, Warehouse.
Remove	Delete the selected MRP scenario.

© 2026 Boyum IT Solutions A/S

Duplicate entry	Create a "clone" of the selected MRP scenario. The duplicated entry will be shown below the selected scenario. The duplicate receives a new scenario number and "- copy" is appended to the description.
Order recommendation	Show calculation results. **Note**: As long the computation is running on a different work station, the results cannot be displayed.
Calculate	Execute the selected MRP scenario. **Note**: As long the computation runs, no user can open the order recommendation list. If the computation was not completed, for example due to a blackout, please restart. ***See*** Calculation.
Resources	The **Resources** button opens the resource requirement view for the selected scenario (MRP2).
External operations	Displays which peggings require external service This button is only visible if the calculation of the external operation was activated. (***see*** Configuration wizard)
Analysis	Display the Analysis of the last calculation.
MRP General Parameters	Opens the Configuration wizard section for MRP settings.

See

MRP overview and videos

Material requirement planning

Planning scenarios

Computation

Order recommendation

9.1.1 MRP scenario scheduling

An MRP scenario can be edited in this window in three tabs. Click the links for descriptions:

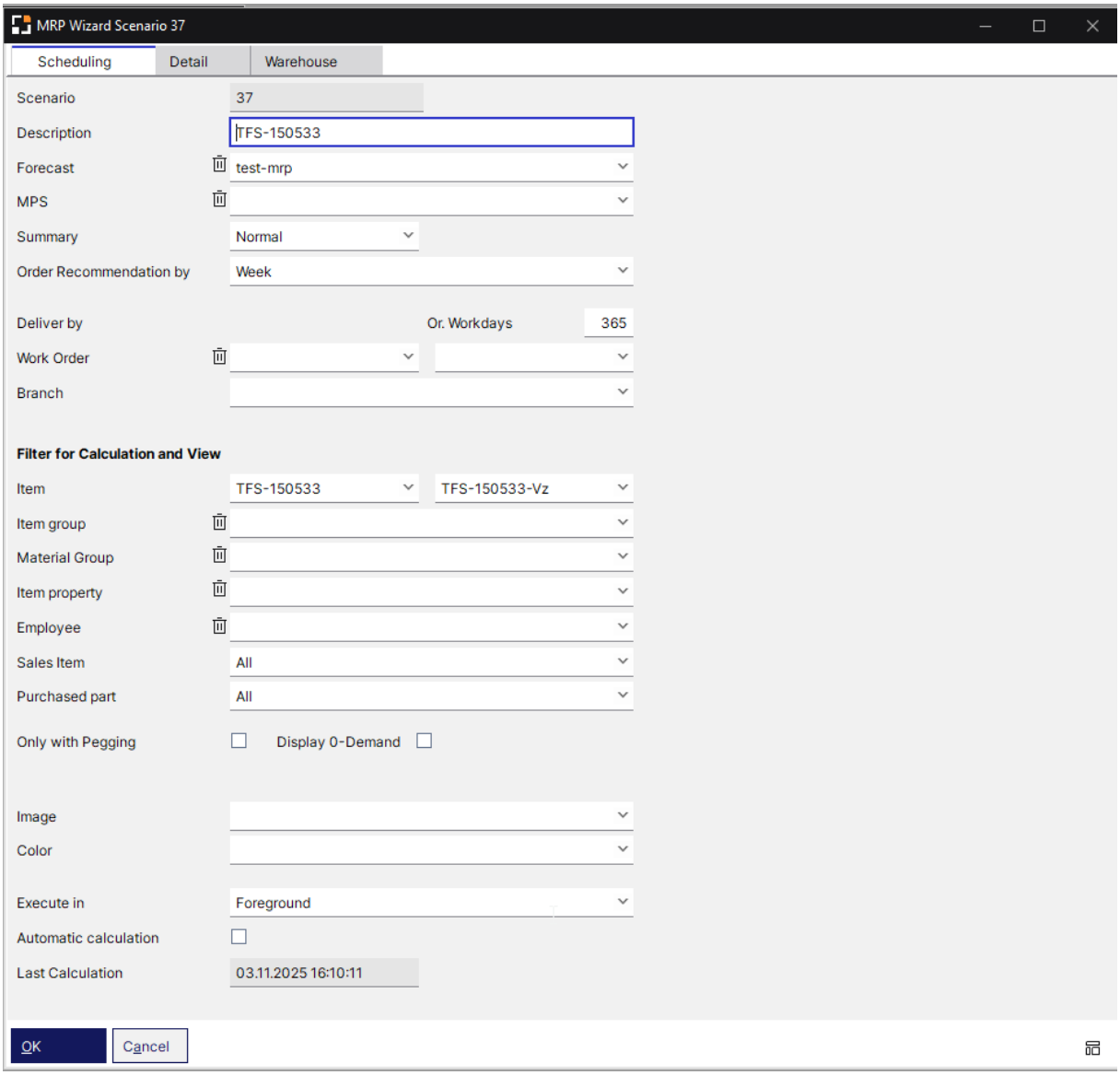
Scheduling tab

Detail tab

Warehouse tab

PATH: MRP > MRP Wizard > **Open / Add**.

© 2026 Boyum IT Solutions A/S



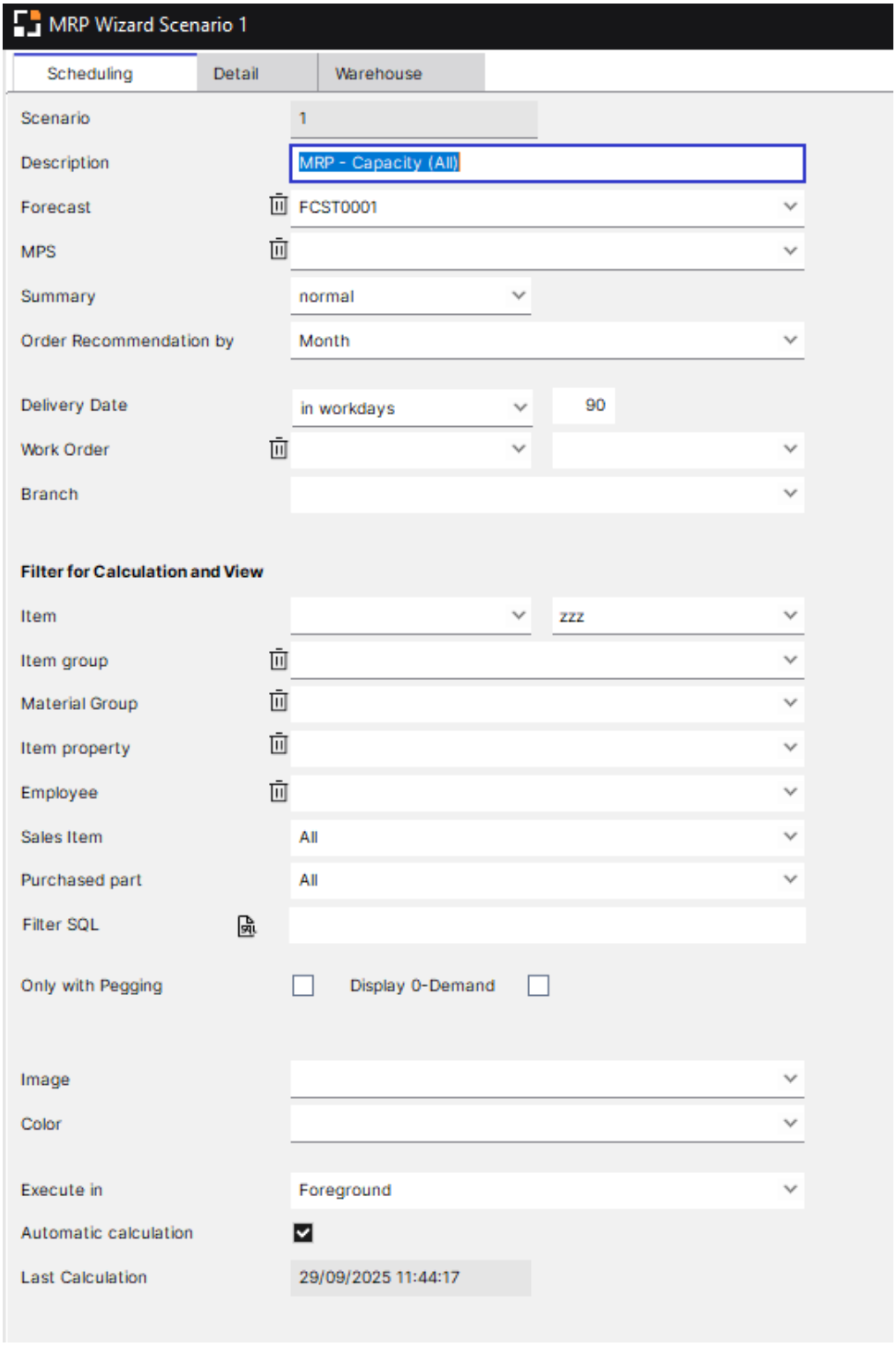
Window: mrp_edit

9.1.1.1 Scheduling

The details of an MRP calculation scenario is set up in scheduling. The current scenario is shown in the title bar of the window.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > Scheduling tab.

© 2026 Boyum IT Solutions A/S



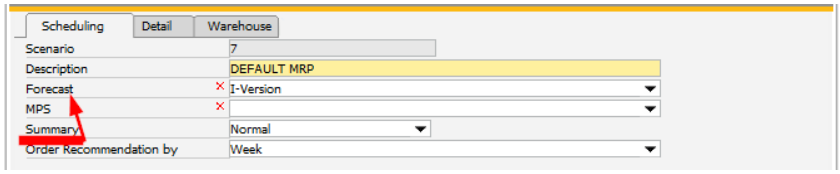
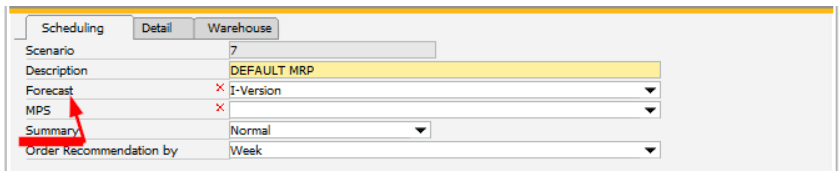
Window: mrp_edit

Field Descriptions

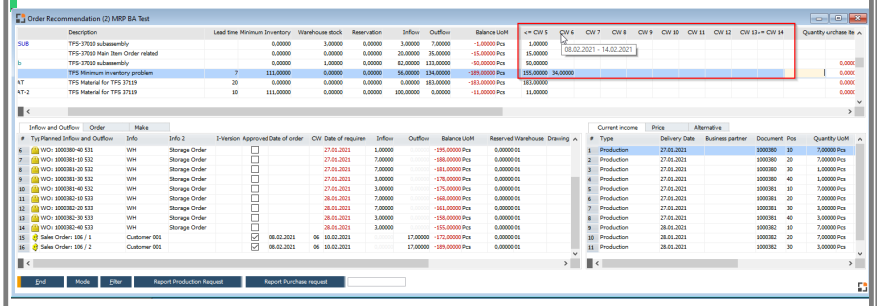
© 2026 Boyum IT Solutions A/S

Field	Description
Scenario	ID of the plan.
Description	Long description of the plan.
Forecast	Includes a SAP Business One forecast in the MRP run. More than one forecast can be added to this scenario. A new screen is displayed when forecast is selected. NOTE: Past forecast are always ignored by the system. Only the forecast for the current month and for the future are taken in consideration. ***See*** Configuration wizard - Forecast Forecast (SAP) Planning scenarios - Detail - Forecast MPS
MPS	Select from one or more forecasts in which MPS planning is provided. What is MPS: **M**aster **P**roduction **S**cheduling is a rough production planning procedure and is used in Material Requirements Planning to develop a detailed production plan. The Master Production Schedule is compiled by a Master Scheduler and takes into account the requirements of the various departments, including sales (delivery times), finance (minimizing inventory) and manufacturing (minimizing set-up times). The program plans the production periods and the purchase of materials taking into account the capacities and resources available to the production system. Beas supports special forecasts, which are treated differently than usual forecasts. These can be used to integrate MPS features. MPS scheduling can be realized in Excel or other programs and then imported by DTW into SAP Business One. As an alternative, you can

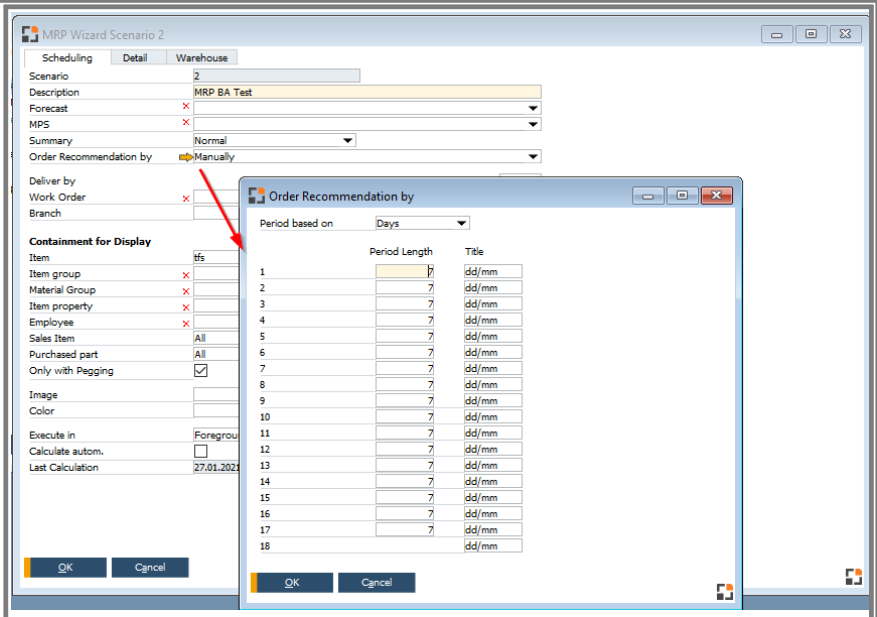
© 2026 Boyum IT Solutions A/S

Field	Description
	use the forecast management of SAP Business One. Enter MPS-forecasts into the MRP-scenario under "MPS". For the requirement calculation of MPS-planned items, **outflows**, forecasts and SCM orders are ignored, and planned outflow from the MPS scheduling is used instead. MPS only takes place if the respective item was marked as an MPS item. This is indicated in item master (Beas) **> Master data > Planning Data > "MPS"** Resulting entries are marked with MPS. **Special forecasts** Special forecasts are entered in the MRP scenario under MPS. As opposed to MPS scheduling, the respective items are not marked as MPS items. All planned issues are ignored and not consumed. The peggings therein are marked with the *special forecast* term. Note: Planned inflow and outflow of work orders and purchase orders are not affected. Note: MPS is calculated only if **Details > Pegging > Sales > Sales order** is activated. The Summary field refers only to usual forecasts, not to MPS forecasts. 
Summary	The forecasts can be summarized by month, regardless of their definition. If possible, work with Summary. This reduces Data and increases performance. The Summary field refers only to forecasts, not MPS. 

© 2026 Boyum IT Solutions A/S

Field	Description
Order recommendation by	Display order recommendations by period (selection). Set a time period to display order recommendations for: • Week • 2 Weeks • Month • manually You can see this in the MRP: PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button  *Window mrp_browse.psr* The number of displayed columns are dynamic and depend on the total time period of the calculation, and the defined length for each period. The minimum is 2 columns, maximum is 18. The columns display the start- and end dates in a tool tip when moving the mouse to the column header. For more information on "Order recommendation – time areas" ***See*** Order recommendation report. You can define the area manually by choosing the "Manually" option. PATH: MRP > MRP Wizard > Select a scenario and click the **Open** button

© 2026 Boyum IT Solutions A/S

Field	Description
	 *Window mrp_edit_per.psr* By selecting manually the following can be specified: **Period based on:** This defines if the values for the time period represent days, weeks, or months. **Period length:** Field used to specify the length of the period. The value entered represents the length of each period. In the example above each period lasts 7 days. <u>Special periods:</u> 1. The **first period** is calculated from 1900/1/1 until the end of the first period. The end of the first period depends on "period based on" and is for - days: the number of days defined in the first period. The actual day is day one for the period - weeks: last day of week for the first period, based on today. the actual week is week 1. - month: last day of month for the first period, based on today. the actual month is month 1. 2. The **last period**: starts one day after the end of the second to last period. The end is set to the far future(2050/12/31) **Title**: Field used to indicate what is to be displayed in order recommendation report. Placeholders are allowed. The following

© 2026 Boyum IT Solutions A/S

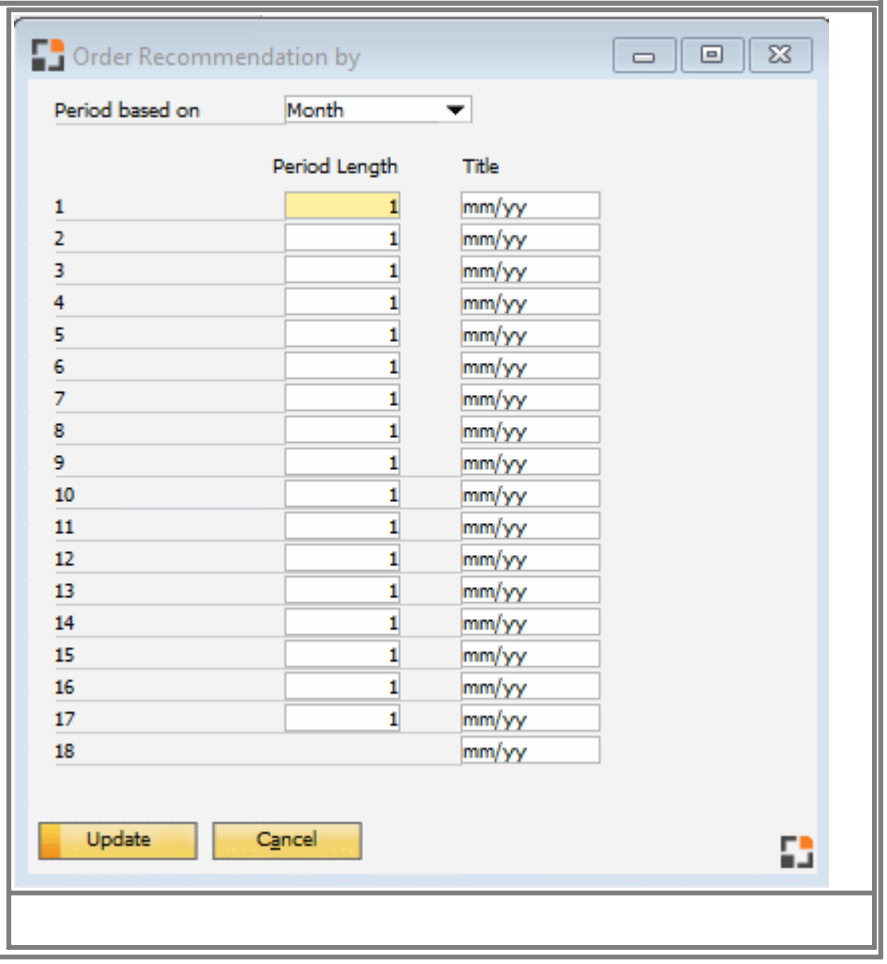
Field	Description
	letters represent: YY, year 2 digits; MM, month 2 digits; DD, day 2 digits; and, CC, calendar week 2 digits. For example, YY/CC 21/05 for calendar week 5 in year 2021 Note: upper case (YY) and lower case (yy) works similarly.

Character	Description
YY	Year 2 digits
YYYY	Year 4 digits
MM	Month 2 digits
DD	Day 2 digits
CC (also: ww)	Calendar week 2 digits

With the manual definition you have also the possibility to influence the count of periods that are displayed.
For example, if you want to show only 5 periods, regardless of the fact that the system has determined a higher number of time periods, you can just leave the period length and title for period 6 to 18 empty.

- if you insert value <=0, then the system deletes the entry
- if you delete the entry or insert <=0, the system deletes the entry too
- if you insert new value > 0, the system inserts standard title related to the period base setting
- not possible to insert value if value in line before <= 0
- if you delete an entry or insert <= 0, the system deletes the values from the current line and all lines after this

© 2026 Boyum IT Solutions A/S

Field	Description
	

In the order recommendation report items are displayed according to filter settings.

Field	Description
Delivery Date	Set the date limit to take into account orders and forecasts. From the drop-down you can select whether calculations should be based on a fixed delivery date or work days. Work days are defined as default.
Or. Workdays	Set the date limit to take into account orders and forecast This is used when the scenario has been created for multiple executions. This makes the date dynamic, for example the next 60 working days from the current date. **IMPORTANT**: If a main demand is not considered due to the date, the requisites dependent on it are not calculated even if the lead time,

© 2026 Boyum IT Solutions A/S

	the order date, or the need date of these requisites fall within the period of calculation.
Work order	Display only the item needed for the selected work order. ***See*** Containment for Display
Branch	Branch used of this scenario This automatically marks the correct warehouses in the "Warehouse" tab. If you choose a Branch, you can only see the Warehouses for this Branch in the "Warehouse" tab. ***See*** Tab Warehouse Detail – Inventory – Warehouse filter for transactions Requirement coverage calculation. *beas 9.3 PL 3*

Bottom section: Containment for Display

Limitation (affects only the display of the results)

With filter definition you can specify which items should be stored in the results. All peggings are calculated, because an item outside this definition may cause a requirement within this definition. Items outside the defined area will not be saved.

For large amounts of data, the calculation time can be reduced if the range is limited.

Attention: The MRP cannot display linked information if the linked item is outside the filter area.

Example

Assembly A → Material position with Item B

Sales order with Assembly A

No filter:

MRP checks A and finds B. In the result you can see A and B.

Right-click on planned outflow for B → Origin: MRP displays Sales Order A as source item.

Filter Only Item "B":

© 2026 Boyum IT Solutions A/S

MRP checks A and finds B, but saves only B. In the result you can see only B.
Right-click on planned outflow for B → MRP cannot display the relations because these are not saved.

Alternative:
Calculate all and define the filter in the view itself.

Performance:
If a filter is defined, the calculation can be little faster.

For calculation and view

The filters defined in this area are set for both the calculation and the results displayed in the Order recommendation.
The filter searches all documents related directly or indirectly to the defined items.

Field	Description
Item (from/to)	Narrow the range of items by item number
Item group	Narrow the range of items by item group
Material group	Narrow the range of items by material group
Item property	Narrow the range of items by item properties
Employee	Limit results to personnel
Sales item	Filter the results displayed by sales item. It can be a range of items, or selected sales items. Yes = only items, which are marked as sales items No = only items, which are not marked as sales items All = the ID "sales item" is ignored
Purchased part	Filter the results displayed by purchase part. It can be a range of items, or selected purchase parts. Yes = only items, which are marked as purchase items No = only items, which are not marked as purchase items All = purchase and non purchase items
Filter SQL	Add SQL filter to narrow down the number of items to be calculated. You can enter your SQL filter directly in this input field or edited in an SQL editor via the “SQL icon”.

© 2026 Boyum IT Solutions A/S

Field	Description
	The filter entered is checked immediately to see whether the condition is executable: A green or red dot/flag next to the input field indicates whether the condition is correct. A condition can also be deactivated by placing it in a comment /* */. NOTE: Sub-queries to link to other tables can be added but the filter is based on the OITM table.
Only with Pegging	If active, only items that have a pegging or a planned receipt are displayed. Default: disabled. All items according to settings are displayed in MRP. **Note**: If there are too many items in the database, it is recommended to disable this option. Otherwise the computation may take very long.
Display 0-Demand	When this check box is active, items without any material demands are also displayed in the list. With the help of this flag you can get a clear overview of e.g. which Sales order materials that have been completely covered by a Work order etc.
Image	Select an icon (image) to represent the scenario in the MRP Overview list.
Color	Define a color for the list view.

Server

Field	Description
Execute in	Select how to execute the calculation: **Setting** / **Description** Background: When starting the calculation, a separate task for the calculation is opened. While the calculation is running, it is possible to work with Beas, and the MRP Browser shows the status of the calculation. **Note:** Background execution does not support "Windows authentication" login mode. Use standard login to Beas for background operations.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Setting</th><th>Description</th></tr>
<tr><td>Foreground</td><td>The calculation is done directly in the application. While the application is running, it is not possible to work in Beas.</td></tr>
<tr><td>Ask always</td><td>When starting the calculation, you can choose if the calculation should be done in back- or foreground.</td></tr>
</table>
</td></tr>
<tr><td>Last calculation</td><td>Date and time of the last calculation.</td></tr>
<tr><td>Automatic calculation</td><td>The MRP is calculated automatically by the server at activation. For further information See calculate automatically.</td></tr>
</table>

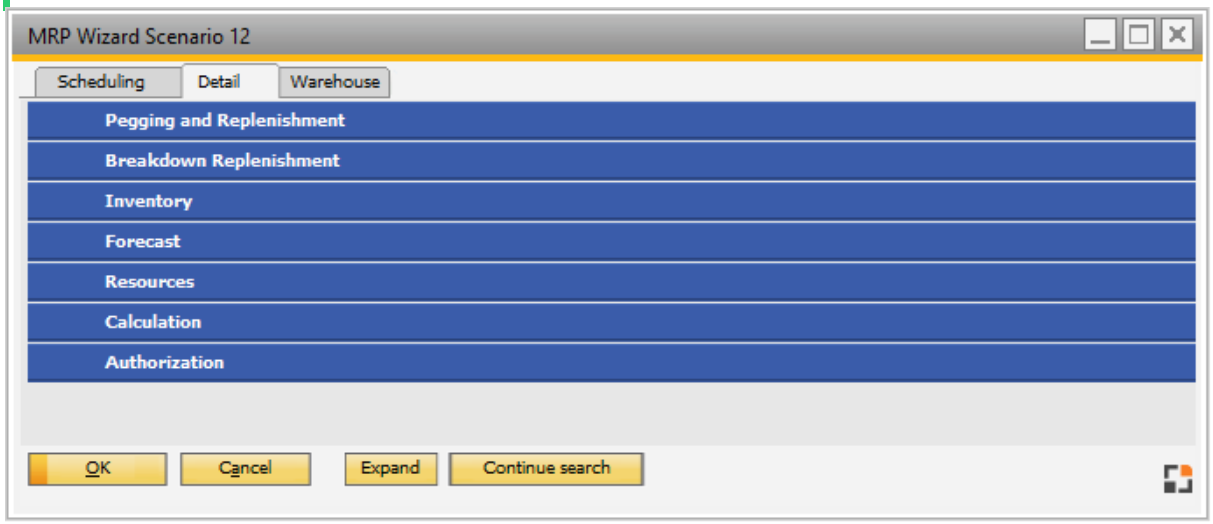
An image and a color can be defined for the schedule.

Right-click to access MRP General Parameters.

9.1.1.2 Detail

The tab contains detailed scenario settings.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_option_struktur.psr

Right-click function/Button:

History: Open the Change log for all entries.

History current entry: Open the Change log for the current entry.

Expand: Expand settings

© 2026 Boyum IT Solutions A/S

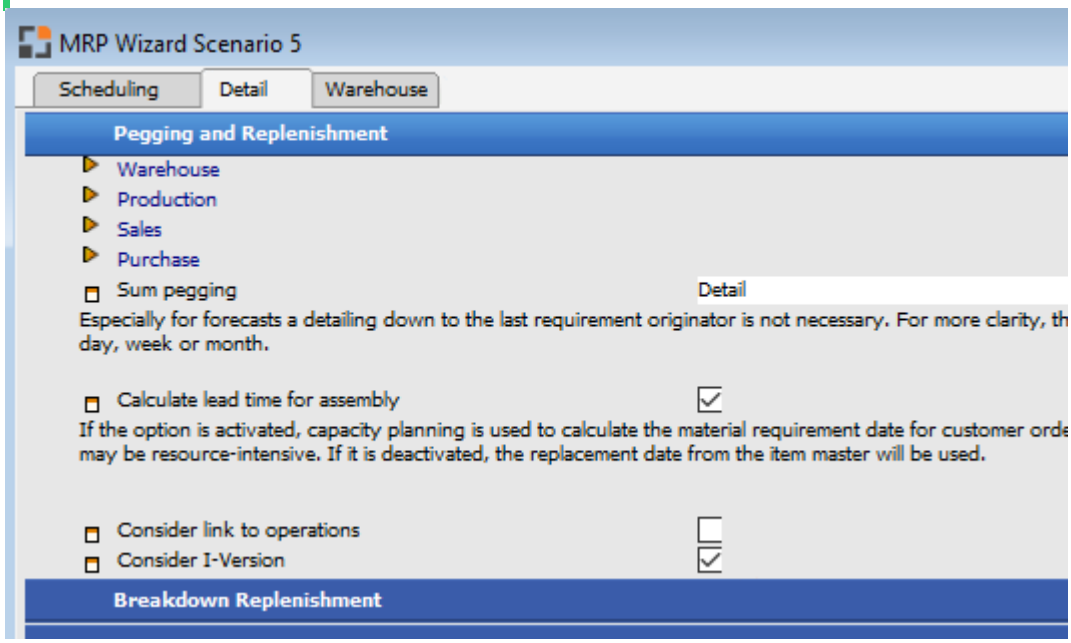
Related settings:

- Pegging and replenishment
- Breakdown replenishment
- Inventory
- Forecast
- Resources
- Calculation
- Authorization

9.1.1.2.1 Pegging and replenishment

This tab contains the detailed settings of documents that are taken into account as input to calculate the material requirements.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_option_struktur.psr

Warehouse

Production

Sales

Purchase

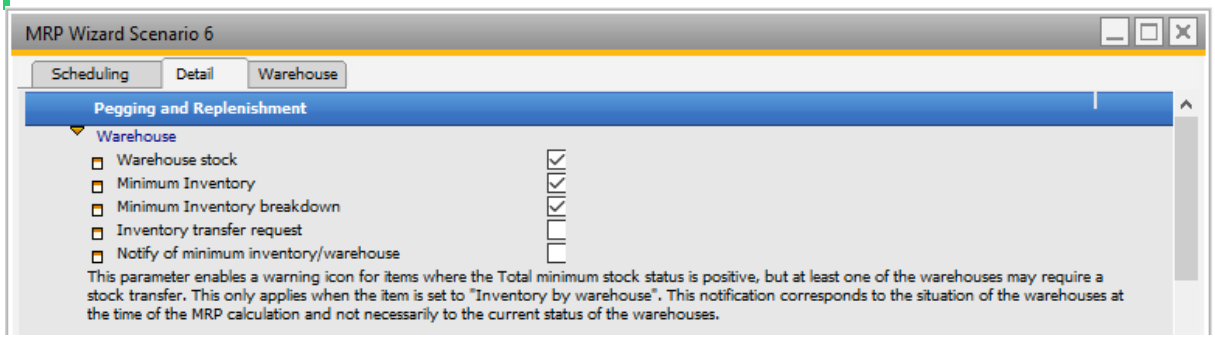
Computation type

© 2026 Boyum IT Solutions A/S

9.1.1.2.1.1 Warehouse (Pegging setting)

Detailed MRP scenario settings related to warehouse and inventory.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_ option_ struktur.psr

Field	Description
Warehouse stock	Enable Beas to take into account the inventory of the items in the MRP.
Minimum Inventory	⊟ Minimum stock is taken into account Enables Beas to take into account the minimum inventory that is defined in the item master data, in the MRP. The minimum stock request is always be shown as pegging, even if it causes no requirement. Only the actually occurring requirement is displayed in the "Outflow" field. ***Example: No underlining*** Warehouse 100 Minimum stock: 50 Info = "Min: 50" Outflow = 0 Balance = 50 ***Example: Partial underlining*** Warehouse 100 Minimum stock: 150

© 2026 Boyum IT Solutions A/S

	Info = "Min: 150" Outflow = 50 Balance = -50 For further information ***see*** "Breakdown minimum stock" **Note**: If the requirements are in the past, they are put into the present after minimum stock examination has been carried out. ***See*** Order Recommendation Note for beas 9.1 PL: 07 and older In older versions the minimum stock was only shown as the pegging, if this causes a direct requirement, so it is bigger than the considered warehouse stock. Calculation for the minimum stock There are some dependencies to determine the minimum stock: **Stock management by item:** If the minimum stock is bigger than the required stock, the minimum stock is always be used as the reference size, otherwise the required stock is used. The minimum stock is determined in warehouse units, the required stock is determined in purchase units ("OITM"."ReorderQTy" * "OITM"."NumInBuy"). **Stock management by warehouse** The sum of all minimum stock of all warehouses that are included in the calculation are considered.
Minimum inventory breakdown	Defines if the minimum stock must be broken down. Enable Beas to break down the minimum inventory requirements. There is only a breakdown if the warehouse inventory is smaller than the minimum inventory. Only the missing share is broken down.

© 2026 Boyum IT Solutions A/S

	If this option is activated, the minimum stock requirements are broken down. A storage related assembly is broken down into its components. In this case the requirements always date from the past. **Attention:** This function works only for storage-related items, not for order-related assemblies. ***See*** item master data **Example:** the warehouse inventory is 100 Pcs and the minimum inventory is 150. The program assumes that the missing 50 Pcs must be produced to fulfill the minimum inventory. In case the minimum inventory is underrun, the scrap quantity is not considered. It will be taken into account at breakdown. **Example:** the warehouse inventory is 100 Pcs, the minimum inventory is 101 and scrap quantity is 10 Pcs. A negative balance of 101 results, and a further breakdown occurs with 111. If a work order is created from this, it has a quantity of 101 + 10 from scrap. For items managed by batches, if the option locked batches are Disposable in the section Inventory from the Details tab is deactivated, only released (non-blocked) batches are used as a warehouse reference. **Example:** the warehouse inventory is 70 Pcs, the minimum inventory is 100 and the locked batch quantity is 10 Pcs. A negative balance of 40 arises.
Inventory transfer request	Enables Beas to manage inventory transfer request through MRP Each inventory transfer request generates 2 entries in the MRP; the first one is similar to a sales order in the source warehouse and the second entry is like a purchase order for the target warehouse. If this setting is activated, the system checks the transfer request document.
Notify of minimum inventory / warehouse	Activate this parameter to enable a warning icon for items The warning icon works only if - Item is set to "Inventory by warehouse" - MRP setting "Notify of minimum inventory" is activated

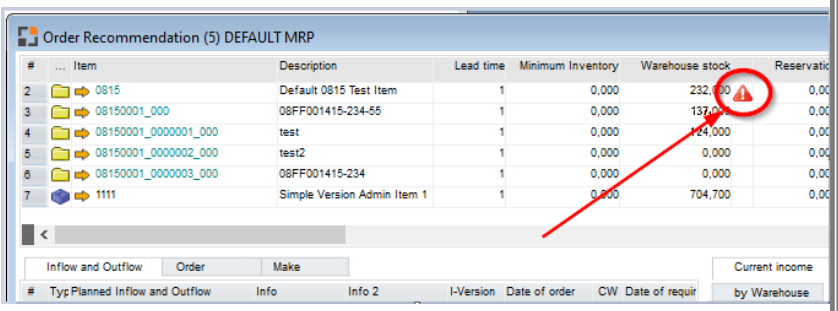
© 2026 Boyum IT Solutions A/S

- Warehouse Stock > Minimum Inventory

What the system checks

Activate this parameter to enable a warning icon for items where the Total minimum inventory status is positive, but at least one of the warehouses may require a stock transfer (Warehouse minimum inventory status is negative).

This notification corresponds to the situation of the warehouses at the time of MRP calculation and not necessarily to the current status of the warehouses.



Example:

Warehouse 01: Min. Inventory = 100, Current Inventory = 0

Warehouse 02: Min. Inventory = 0, Current Inventory = 200

Warehouse 03: Min. Inventory = 500, Current Inventory = 0

Total Min. Inventory = 600, Total Inventory = 200

In this case Balance is > 0,

The inventory in one warehouse is not enough to cover the Minimum Inventory of this warehouse and the Total Min. Inventory > Total Inventory

- the system shows the requirement and the actual item must be checked.

- the system displays no alert.

Example:

Warehouse 01: Min. Inventory = 100, Current Stock = 0

Warehouse 02: Min. Inventory = 0, Current Stock = 200

Warehouse 03: Min. Inventory = 0, Current Stock = 0

Total Min. Inventory = 100, Total Stock = 200

© 2026 Boyum IT Solutions A/S

	In this case Balance is > 0, but the inventory in one warehouse is not enough to cover the Minimum Inventory of this warehouse and Total Min. Inventory < Total Inventory - the system does not show requirement - the system displays the alert. **I-Versions** When working with I-Versions (Setting "Consider I-Version" is activated), minimum inventory by warehouse is indicated only in the active version. However, inventory information in the by Warehouse tab is not considered per I-Version. This means that it considers the complete inventory of the Item. ***See*** MRP Order recommendation by Warehouse. ***See*** Minimum inventory alert.

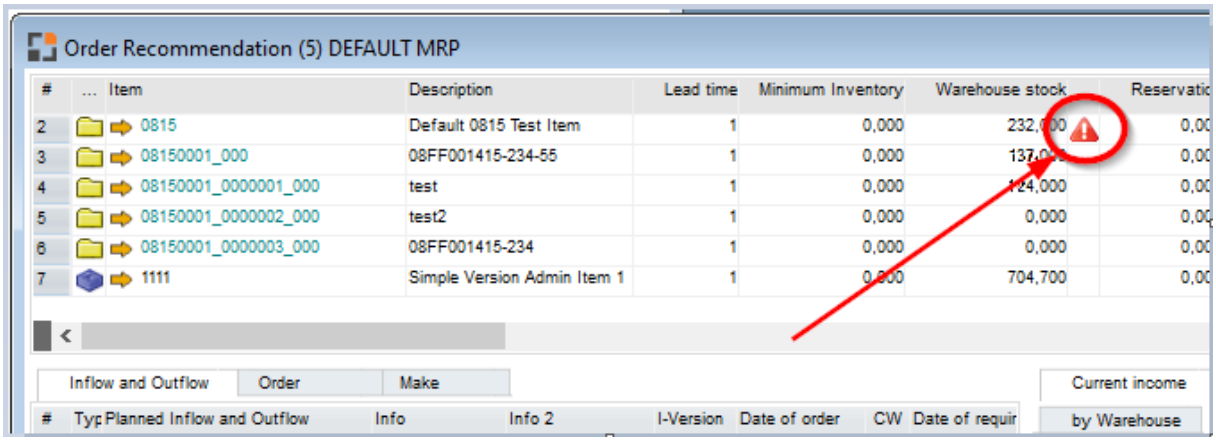
The warning icon works only if
- Item is set to "Inventory by warehouse"
- MRP setting "Notify of minimum inventory" is activated
- Warehouse Stock > Minimum Inventory

What the system checks

Activate this parameter to enable a warning icon for items where the Total minimum inventory status is positive, but at least one of the warehouses may require a stock transfer (Warehouse minimum inventory status is negative).

This notification corresponds to the situation of the warehouses at the time of MRP calculation and not necessarily to the current status of the warehouses.

© 2026 Boyum IT Solutions A/S



Example:

Warehouse 01: Min. Inventory = 100, Current Inventory = 0

Warehouse 02: Min. Inventory = 0, Current Inventory = 200

Warehouse 03: Min. Inventory = 500, Current Inventory = 0

Total Min. Inventory = 600, Total Inventory = 200

In this case Balance is > 0,

The inventory in one warehouse is not enough to cover the Minimum Inventory of this warehouse and the Total Min. Inventory > Total Inventory

- the system shows the requirement and the actual item must be checked.
- the system displays no alert.

Example:

Warehouse 01: Min. Inventory = 100, Current Stock = 0

Warehouse 02: Min. Inventory = 0, Current Stock = 200

Warehouse 03: Min. Inventory = 0, Current Stock = 0

Total Min. Inventory = 100, Total Stock = 200

In this case Balance is > 0, but the inventory in one warehouse is not enough to cover the Minimum Inventory of this warehouse and Total Min. Inventory < Total Inventory

- the system does not show requirement
- the system displays the alert.

I-Versions

When working with I-Versions (Setting "Consider I-Version" is activated), minimum inventory by warehouse is indicated only in the active version.

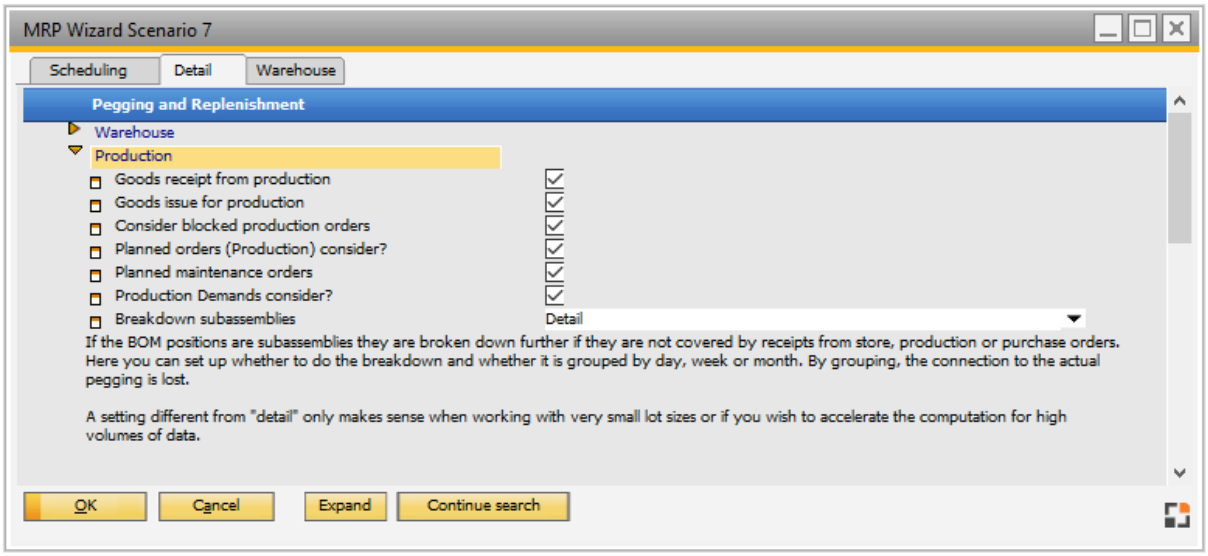
© 2026 Boyum IT Solutions A/S

However, inventory information in the by Warehouse tab is not considered per I-Version. This means that it considers the complete inventory of the Item. ***See*** MRP Order recommendation by Warehouse.

9.1.1.2.1.2 Production (Pegging setting)

Detailed MRP scenario settings related to Production.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_option_struktur.psr

Field	Description
Goods receipt from production	Consideration of planned receipt from production This option refers to balance calculation. If enabled (as default), includes planned goods receipts from production and negative BoM items in the MRP calculation. These are used as “Inflow” when calculating MRP inventory flow. The warehouse stored in the work order or in the negative BoM is used for receipt. If in the Configuration Wizard a receipt warehouse is stored, this is used as reference. This applies only if special warehouses must be considered. ***See*** Planning scenarios – warehouse

© 2026 Boyum IT Solutions A/S

	Plannings scenarios – detail – warehouse filter Configuration wizard – Posting
Goods issue for production	If this option is activated, planned production issues (BoM) are taken into account in the MRP calculation. Negative BoM items are not considered.
Consider blocked production orders	By default the blocked production orders are not taken into consideration in the MRP. Disabled by default.
Consider planned orders (production)	Planned Work orders are taken into consideration in the MRP, even if they are blocked. Enabled by default.
Consider planned maintenance orders	Consider demand from planned maintenance orders If active, MRP considers planned maintenance orders for which no work order has been created yet. For breakdown, the Bill of materials assigned in the maintenance plan are used. At the moment the work order is created for the maintenance order, the maintenance order is no longer considered. The requirement is, then, determined from the work order, but only if the Goods Issue for Production option is enabled.
Production Demands consider?	If this option is enabled, production requests that have been created by order recommendation are considered for the current MRP run. Enabled by default. Note: The system always makes a breakdown from the first level and from all order-related sub levels. Stock-related sub levels: use setting "Breakdown sub-assemblies" defined in sales order area. If you create a production request from a sales order with linked precalculation, the system ignores this in the production demands.
Breakdown subassemblies	How to breakdown sub-assemblies whose requirement is not covered Defines how to breakdown sub-assemblies. If sub-assemblies are not covered by inventory, production, or purchases, these are further broken down. Here, the user can select if pegging is grouped by day, week or month. Creating groups of pegging cut the link to the current pegging. ***Example:***

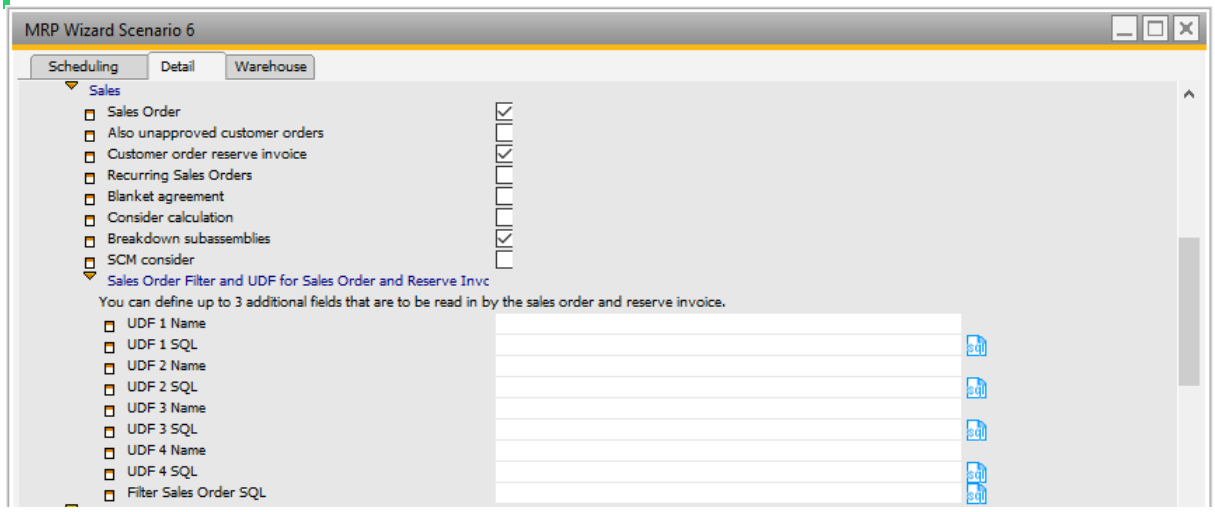
© 2026 Boyum IT Solutions A/S

	There is a work order for item “A” with the following structure: Finished Goods “A” Sub-assembly “B” Purchase Item “C” Beas checks if there is enough inventory for sub-assembly “B” or if there is a scheduled receipt (requirement coverage calculation). If nothing is found, assembly B is broken down, thereby determining the requirement for material C, though there is no production order. Here, material C is firmly linked to the pegging (production order, assembly A). Note: This setting is ignored at production demand consideration, and the system uses the breakdown definition from the Sales area.

9.1.1.2.1.3 Sales (Pegging setting)

Detailed MRP scenario settings related to Sales documents.

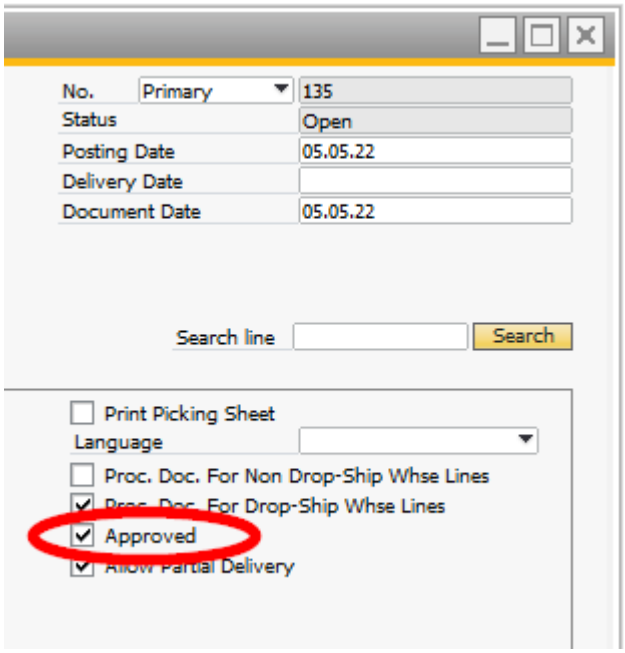
PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



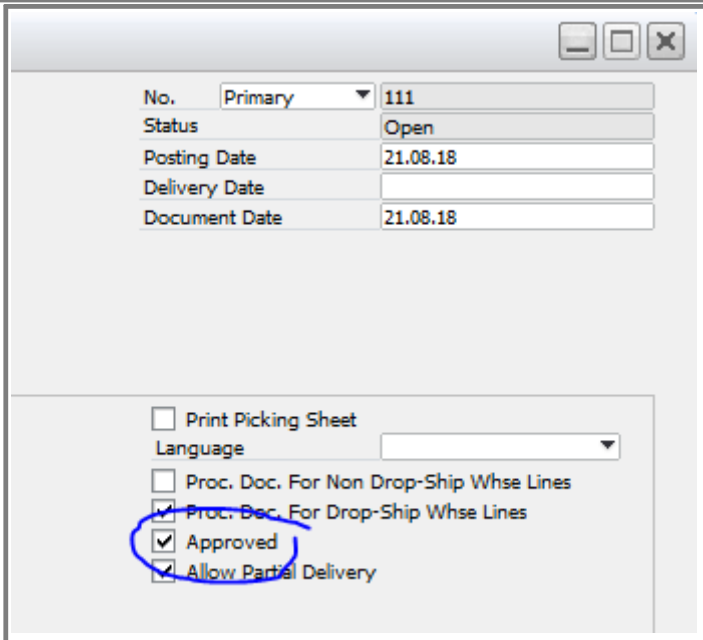
Window system_ option_ struktur.psr

Field	Description
Sales order	⊟ If this option is activated, sales orders are considered in MRP calculations under the following conditions:

© 2026 Boyum IT Solutions A/S

	• Order line has not been closed • Open quantity is greater than zero • **SBO Sales order > "Logistics" tab, "approved" enabled** or "Also unapproved customer orders" are enabled  • It is an assembly or the purchase part is included in item area, defined in „Item“ • Delivery date within the period to be computed • It falls in the Sales Order Filter If you disable this option, the following functions are disabled automatically: Also unapproved customer orders, Customer order reserve invoice, Blanket agreement, Consider calculation. Note: For MPS calculation the Sales order must be calculated too.
Also unapproved customer orders	If enabled, customer orders that are not approved are taken into account In the Sales Order an order can be approved. Beas only loads approved sales orders, unless this option is enabled.

© 2026 Boyum IT Solutions A/S

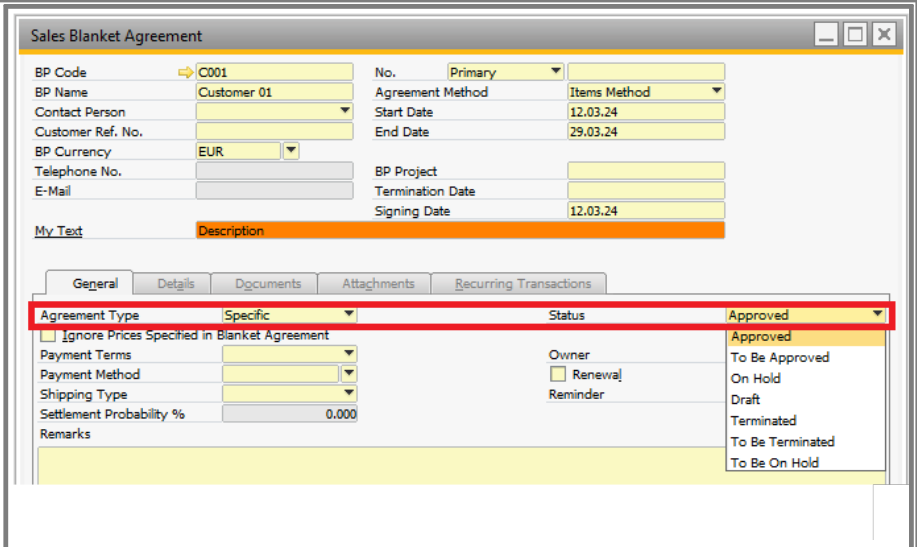


If you need another filter, you can define this in the Sales Order Filter.

(Field ORDR.Confirmed)

Customer order reserve invoice	If this option is activated, customer order reserve invoice are taken into consideration. When this parameter is enabled, the reserve order invoices are included in MRP calculation. If this option is disabled, the sales order for which a customer order reserve invoice was created is no longer considered because SAP closes the sales order. In this case, the requirement originator is now the customer order reserve invoice, not the sales order. In order for this to be included in the MRP as the requirement originator, this option must be enabled. The sequence therefore changes in SAP from **Sales order > Delivery note to sales order > Invoice > Delivery note**. This option is disabled by default.
Blanket agreement	Activate to consider Purchase Blanket Agreements Only Specific and Approved statuses are considered. PATH: Sales > Sales Blanket Agreement.

© 2026 Boyum IT Solutions A/S



If the sum of requirements of a sales order linked to a specific blanket agreement is lower than the quantity in the blanket agreement itself, Beas creates order recommendations for the quantity difference.

Formula to calculate pending quantity of one agreement is as follows:
Agreement Quantity `(OAT1.PlanQty) - (Quantity already sent (OAT1.CumQty) + Quantity Pending` from all open sales orders linked to the Agreement `(SUM (RDR1.OpenQty))`
Sales Order open quantity is affected by SAP parameter "Reopen Doc. by creating returns/Goods return/ Credit notes based on Doc."

Important: In the blanket agreement details, you need to define the date or the recurring period.

Consider calculation

- Considering pre-calculations in calculation.

  If this option is activated, precalculations are taken into consideration.
  If a precalculation is mapped to a customer order item, the material requirement for the customer order is not based on the master data but on the stored pre-calculations.

  Note: Lead time is not calculated. Requirement dates do not take into account any processing times included in the calculation.

- **Breakdown, order/stock-related sub-assemblies**

© 2026 Boyum IT Solutions A/S

- **Storage-related sub-assemblies**: The MRP performs the breakdown based on the information in Item Master data. This is indicated in the Type field of the Order recommendation and marked with the icon / .
- **Order-related sub-assemblies**: The MRP performs the breakdown based on the information in Precalculation. This is indicated in the Type field of the Order recommendation and marked with the icon / .

See more details on Breakdown, order/stock-related sub-assemblies in Activity Log.

Consider SCM

Determine if SCM is considered.

Option visible only, if the View "BEAS_SCM_MRP" exists. This is the case, if the View is installed for example when activating the SCM-solution.

Configuration of the View

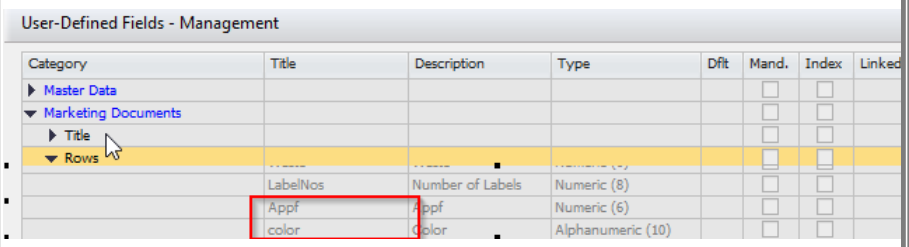
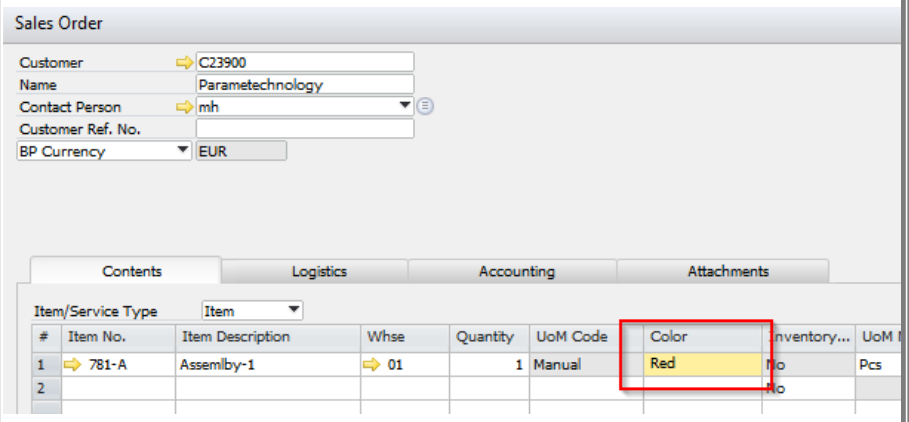
Field	Type	Description
itemcode	nvarchar(30)	Item
cardcode	nvarchar(30)	Customer
scm_bo_project	nvarchar(20)	Project code
scm_numatcard	nvarchar(20)	Reference to sales order number or Purchase order number
scm_sal_pur	nvarchar(3)	Sales order (= "sal") or Purchase (="pur") Determines, dealing with a purchase or a sales order.
scm_date	nvarchar(20)	Delivery date. Configuration: yyyy/mm/dd
scm_quantity	decimal(19,8)	Quantity
scm_bo	nvarchar(25)	Sales order number or Purchase order number
scm_bo_pos	nvarchar(10)	Saler order or purchase order row

© 2026 Boyum IT Solutions A/S

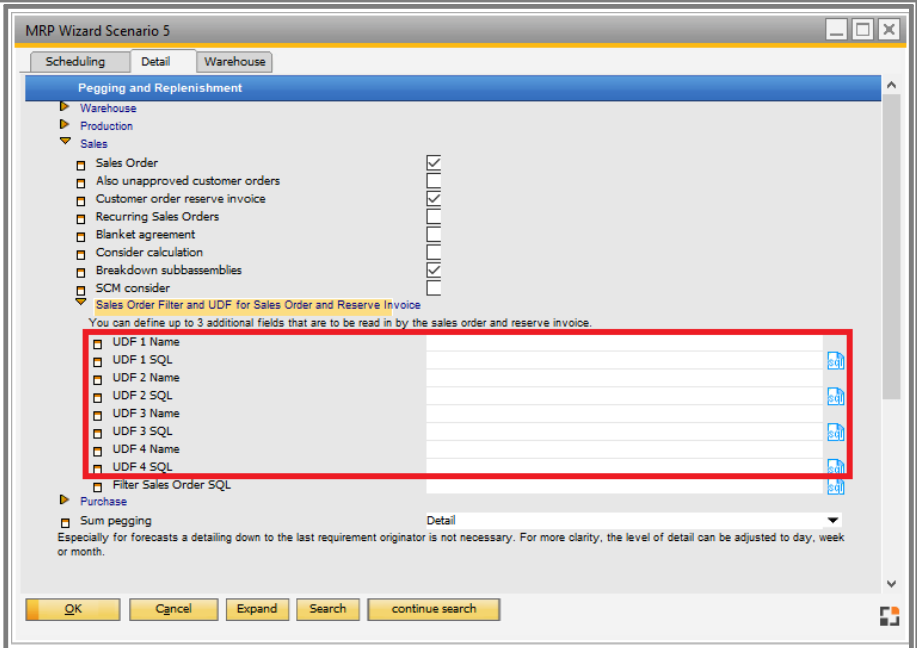
<table>
<tr><td></td><td>
<table>
<tr><td>scm_itemver</td><td>nvarchar(20)</td><td>Item version number.
Following values are considered:
Sale:
<table>
<tr><td>Space</td><td>No version number</td></tr>
<tr><td>NULL</td><td>Version number according to item master</td></tr>
<tr><td><version nr></td><td>Indicated version number (Will not be checked further)</td></tr>
</table>
Purchase:
Indicated item version number. No item version will be applied at NULL/Entry.</td></tr>
</table>
Stored entries are treated as sales orders. For further information please see the SCM documentation.
</td></tr>
<tr><td>Breakdown sub-assemblies</td><td>Determines whether sub-assemblies are broken down.
If this option is activated, sub-assemblies from sales area are broken down. Enabled by default.
Example: There is the following structure for item “A”:
Finished Goods “A”
Assembly “B”
Purchase Item “C”
If the switch is enabled, Beas displays requirement for all three items: “A”, “B” and “C”.
If the switch is disabled, Beas displays requirement only for item “A”. In this case, Assembly “B” is not further broken down. Purchase Item “C” is not displayed as a requirement.

Example of use: Disable the switch if you do not manufacture everything. Disabling this option allows you to decide at the time of scheduling to decide, whether to produce or to purchase.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

	Further information ***See:*** Requirement coverage calculation
Sales Order Filter and UDF for Sales Order and Reserve Invoice	Define up to 4 UDF fields for Sales Order and Reserve Invoice. You can create up to 4 user defined fields, which you can see in the inflow or outflow area. A UDF is a combination of a title and an SQL statement. Beas reads this information and displays this in the UDF field. If the order line is an assembly and a work order does not exist, Beas explodes the order line and inserts the information in all sub-level areas, as well. ***Example***: Assembly "A" has a bill of material position "A1". In the order line you defined a UDF called "Color".  In the Sales Order you can activate this column to be displayed.  In the MRP Wizard > Details tab > Sales > Sales Order Filter and UDF for Sales Order and Reserve Invoice can define up to 4 UDF fields. PATH: MRP > MRP Wizard > Select a scenario > click the **Edit** button > **Detail** tab.

© 2026 Boyum IT Solutions A/S



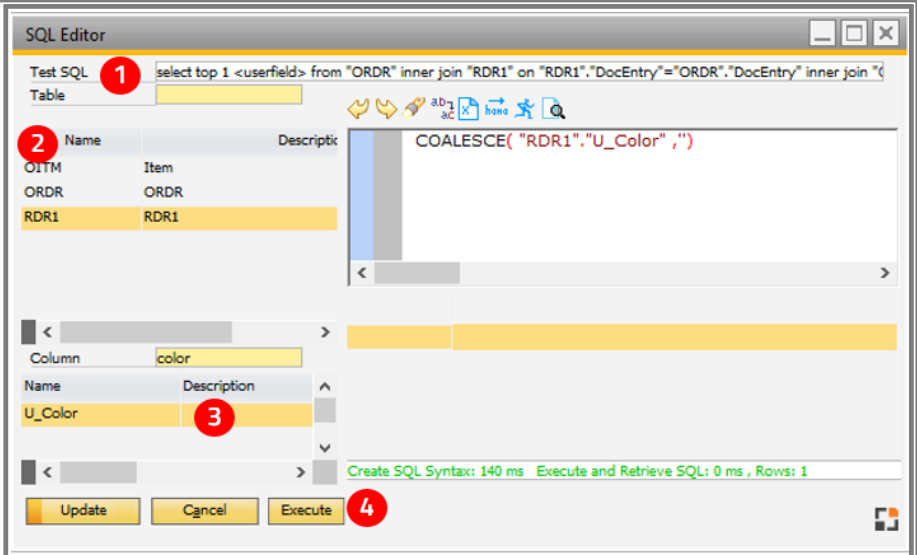
Window system_option_struktur.psr

When you click on the SQL icon, you can define the value of the UDF.

See SQL Editor.

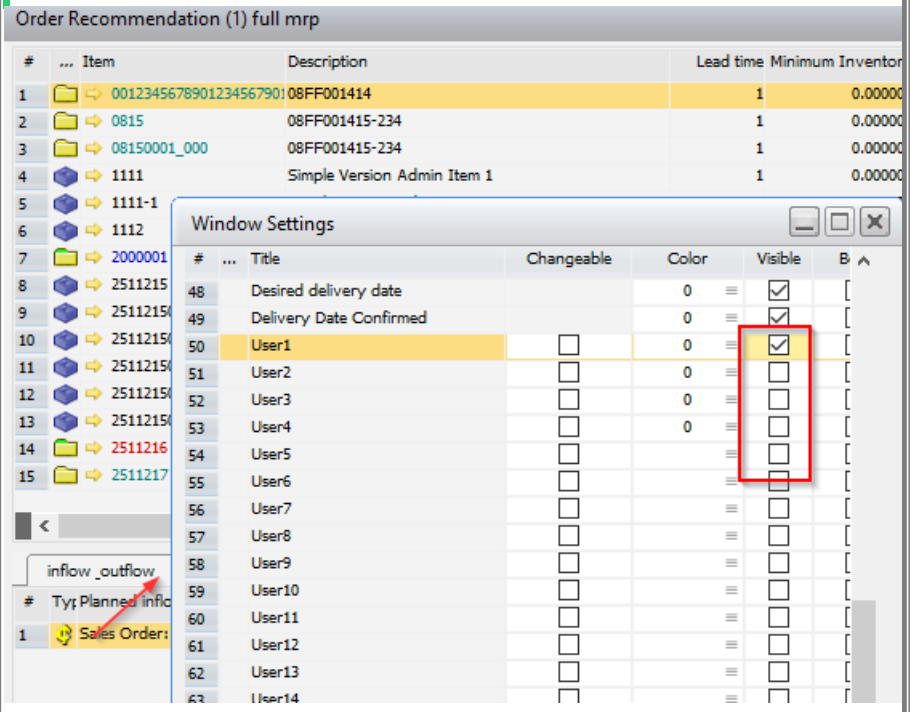
1. You can see a test SQL statement. The SQL that you define is inserted in the "<userfield>" area.
2. All available tables are displayed. In this example: OITM, RDR1 and ORDR. Beas will replace ORDR/RDR1 with OINV/INV1 for reading Invoices.
3. This area shows all fields of the selected table. Double-click on the element to insert into the editor. If this is a column that is a number or date type, Beas inserts the syntax to convert to string. The COALESCE command replace NULL values to an empty string. If you click on an additional column, Beas inserts || to allocate the string (HANA style). If you are working with MSSQL, Beas converts the string at runtime back to the MSSQL syntax.
4. Click the "**Execute**" button to test the command. The correct command is indicated with a message in green font below.

© 2026 Boyum IT Solutions A/S



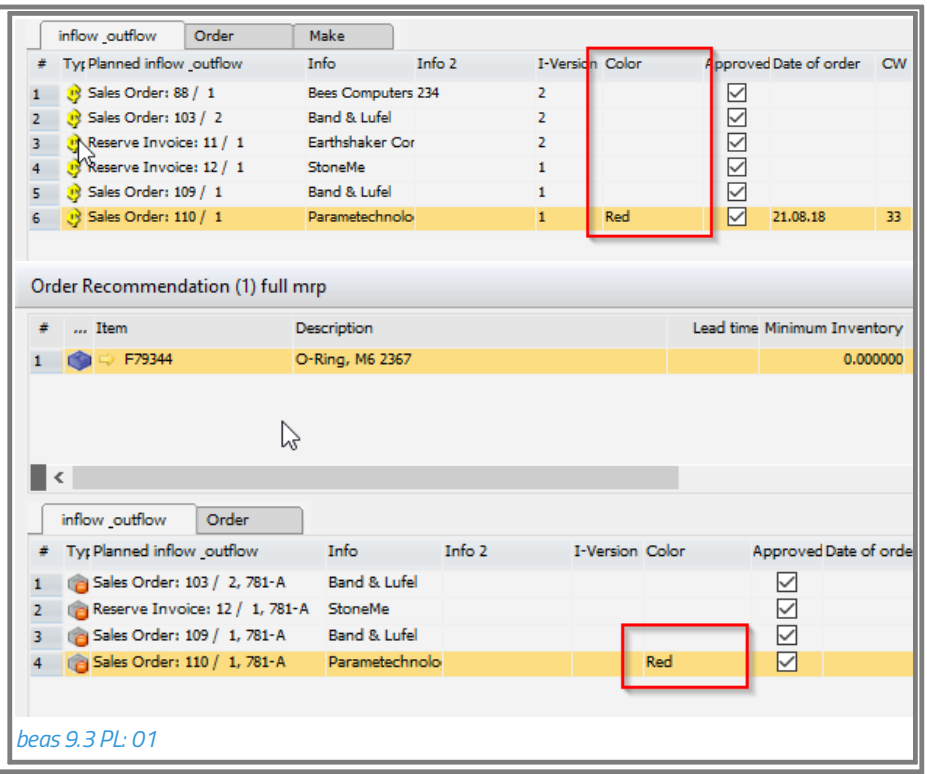
In the Order Recommendation - Inflow/Outflow Area - Window setting you can activate the UDFs to show.

PATH: MRP > MRP Wizard > Select a scenario and click the **Order Recommendation** button > Choose Window settings from the right-click menu.



After recalculating of the MRP, you can see the result (the color in this example) in the assembly and material position and in the Bill of materials.

© 2026 Boyum IT Solutions A/S



beas 9.3 PL: 01

Sales Order Filter

Define which Sales orders are calculated in current MRP Scenario

Additional filters can be defined for the sales order.

Example: Read only sales orders for one project, for one customer, only for one item code.

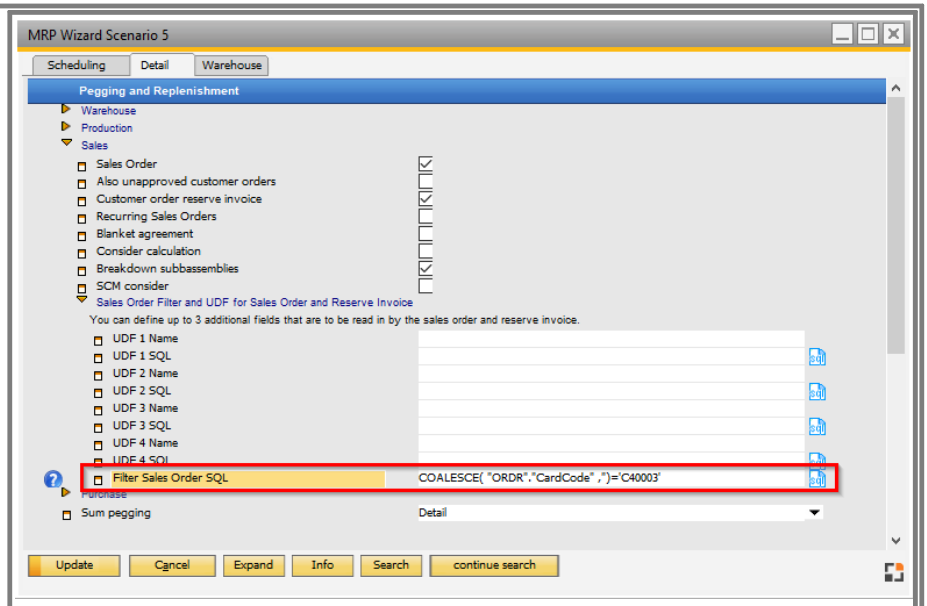
You can define a SQL statement. ***See*** SQL Editor.

The following tables available: ORDR, RDR1 and OITM.

This is working for sales orders only and not for pre-invoices.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.

© 2026 Boyum IT Solutions A/S



Examples:

Only Items starting with A and C	substring("OITM"."ItemCode",1,1) between 'A' and 'C'
Only Customer with Id C003	"ORDR"."CardCode"='C003'
Only if Line UDF "Color" is red or blue	"RDR1"."U_color" in ('red','blue')

Compatibility information: This replace the Variable mrp.src.of_start Variable "mrp_auftragfreigabe". If you have defined this variable in the file mrp.src: Delete it!

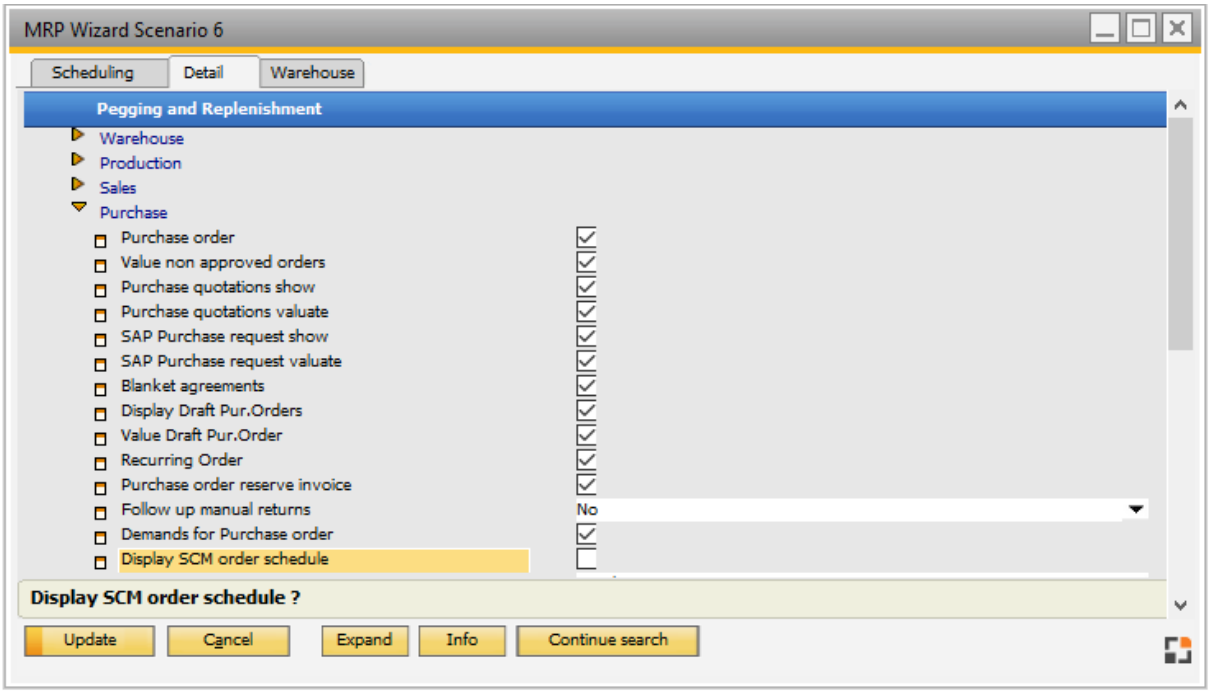
beas 9.3 PL 1

9.1.1.2.1.4 Purchase (Pegging setting)

Detailed MRP scenario settings related to Purchase documents.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.

© 2026 Boyum IT Solutions A/S

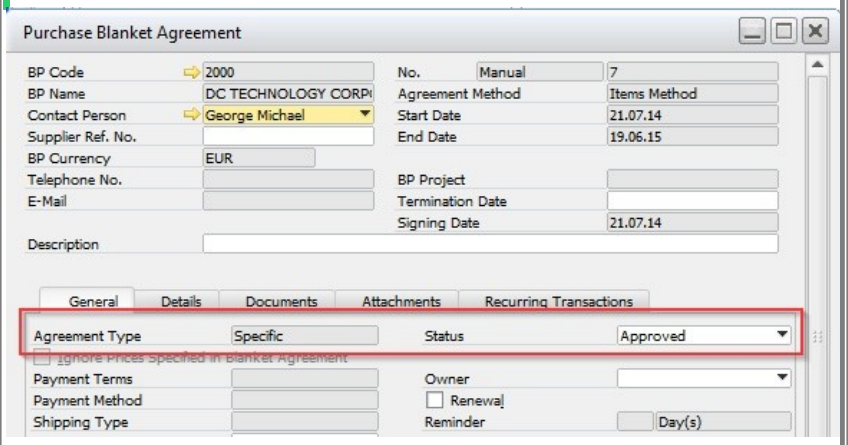


Window system_option_struktur.psr

Field descriptions

Field	Description
Purchase order	If activated, purchase orders are taken into consideration in MRP calculations. This makes consistent balance calculations possible. When disabled, purchase orders are completely ignored.
Value non approved orders	If activated non-approved orders are included in the MRP balance calculation. When disabled, the non-approved purchase orders are completely ignored.
Purchase quotations show	If enabled, purchase quotations are only displayed . Usually, this is not needed, because purchase quotations are also displayed in the window on the right (currently planned receipts).
Purchase quotations valuate	Can only be selected, if the "Purchase quotations show" option is enabled. Activate this option to use purchase quotations in balance calculations. This is used if purchase quotations are used for other purposes, for example for planned receipts.
SAP Purchase request show	If activated, Beas displays the purchase requests created by the SAP Business one purchase request module.
SAP Purchase request valuate	If activated, Beas include purchase request created by SAP the Business one purchase request module in the calculation. Can only be selected, if the *SAP Purchase request show* option is enabled.

© 2026 Boyum IT Solutions A/S

	Attention: A request is not an order document. Please check your desired work flow, before activating the option.
Blanket agreement	Activate to consider Purchase Blanket Agreements Only Specific and Approved statuses are considered. PATH: Purchasing > Purchase Blanket Agreement.  If the sum of requirements of sales order linked to a specific blanket agreement is lower than quantity in the blanket agreement itself, Beas creates order recommendations for the quantity difference. Formula to calculate pending quantity of one agreement is as follows: Agreement Quantity `(OAT1.PlanQty) - (Quantity already sent (OAT1.CumQty) + Quantity Pending` from all open sales orders linked to the Agreement `(SUM (RDR1.OpenQty))` **Important**: In the blanket agreement details, you need to define the date or the recurring period. If you do not define the weekly/monthly creation in the Blanket Agreement, MRP is not going to display the Blanket Agreement in the order recommendation.
Display Draft Pur.Order	If activated, the draft purchase orders are displayed in the MRP run.
Value Draft Pur.Order	Can only be selected, if the "Display Draft Pur.Order" option is enabled. If this option is activated, buffered purchase orders are included in the balance calculation. Use this, if drafted purchase orders are used for planned receipts.

© 2026 Boyum IT Solutions A/S

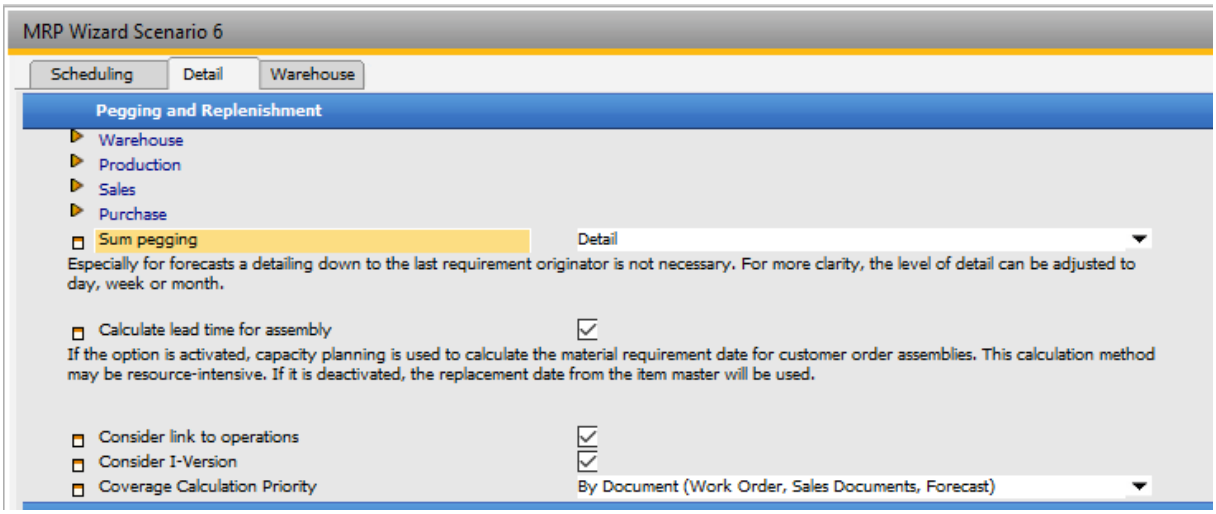
Recurring orders	Enable this option to support the "recurring transactions" SAP Business One function in MRP.
Purchase order reserve invoice	If activated, reserve order invoices are taken into consideration. This option is activated by default. Reserve invoices are displayed in MRP as long as they are not delivered or closed.
Follow up manual returns	If activated, purchasing returns created without a reference to a goods receipt are displayed as a negative or positive inflow (selection). If goods are returned and a replacement delivery is expected without a new purchase order being created, a manual return can be created without a reference to the goods receipt. As soon as the delivery takes place, the return is closed. **Important**: Manual returns are considered in the requirement coverage calculation.
Demands for Purchase Order	If activated, purchase requests from Beas, created from order recommendation are used in the calculation.
Display SCM order schedule	Only available if an SCM Module is installed. If only this option is selected, order schedule is displayed in gray, the calculated balance is not affected. If option is enabled, order schedule is displayed in gray, the calculated balance is not affected. ***See*** consider SCM
Valuate SCM order schedule	Only available if an SCM Module is installed. If this option is enabled, the planning run behaves just like forSAP Business One orders. Balance calculation takes into account the order schedule. ***See*** consider SCM

9.1.1.2.1.5 Computation type (Pegging setting)

Detailed MRP scenario computation settings.

PATH: MRP > MRP Wizard > Select a scenario > click the Open button > Detail tab.

© 2026 Boyum IT Solutions A/S



Window system_option_struktur.psr

Field	Description
Sum peggings	Allows the summary of peggings. Set the summary requirement based on time: day, week, month. This function allows compression of the data and reduction in the calculation effort. ***See*** Calculation time **Detail** All peggings (forecast, order, customer order, etc.) are displayed separately. This setting makes sense if purchases are issued as order-related or it has goods of high value. Purchase order for several instances of the same Item with different delivery dates is supported. The items therefore appear in several lines in Order recommendation. **Day/week/month/sum** The peggings are summarized corresponding to chosen the time period. This is recommended, if no detailed declaration of the pegging or resource is necessary and one has to deal with high amounts of data. The calculation time is shortened, and the view is clearer. This setting can also be defined in the item master data.

© 2026 Boyum IT Solutions A/S

	In Item master this setting can be applied. Higher summary level always has priority. ***See*** Item master - Planning.
Calculate lead time for assembly	When active, lead time is calculated. Resource scheduling (MRP2) is based on lead time calculation. Therefore "**Calculate lead time for assembly**" must be activated if resource scheduling is required. If **enabled**, lead time is calculated using the integrated capacity planning tool based on the defined routing production times. The calculation is carried out by means of backward scheduling simulation. Existing capacities are not taken into account. If a material is assigned to an operation sequence directly, then the start date of the operation sequence is assigned (time: start of processing). Depending on the depth of the production structure and the accuracy of the forecast, the computation can by time consuming. If **disabled** the item lead time and the lead time defined in the Configuration Wizard serves as a reference. The calculation time is significantly shortened. The "Resources - Activate resource planning function is disabled. **Note**: Lead time means production time of the assembly without consideration of sub-assemblies lead times. **ATTENTION:** In case of sub-assemblies, the parameter **only** affects lead time calculation of order-related sub-assemblies used as WO BoM! For storage-related sub-assemblies, the system uses fix lead time defined in Item master data. ***Example - Assembly with order-related sub-assembly:*** Example: Here is the item structure: Assembly A (Lead time = 10 work days) Assembly B (Lead time = 5 work days) The date of finished production A and B is the requirement date

© 2026 Boyum IT Solutions A/S

	Start date A: Requirement date – Lead time A (10 days) Start date B: Start date A – Lead time B (5 days) ***See:*** calculate resources
Consider link to operations	Consider links to routings **Sales documents** If this feature is enabled, calculate the requirement date for sales documents. Links between operation sequence and bill of material are considered. It is enabled by default. If disabled, the links are not considered, which means that the calculated manufacturing start date is always used as the requirement date for the Bill of materials items. By disabling this option, the calculation takes less time. **Production** If this option is enabled, the start date of the operation is used for calculating the requirement date of the Bill of materials items. Otherwise, the start date of the work order position is used. If this option is disabled, the delivery date is used. ***See*** Calculation of order recommendation date
Calculate resources	This gives direct access to the "calculate resources" function. Only visible if "Calculate lead time for assemblies" has been deactivated. This computes e.g. the complete material requirements and complete resource requirement in advance. The necessary resources (material and tools) are calculated based on the the production lot size and stored accumulated. This calculation type is gradually faster than the "Calculate lead time for assemblies" option and it provides a good estimate.
Consider I-version	Group requirements by Item version / ignoring Item version. • Check box **active**: Group requirements by versions (all batches/serials item managed by versions are then split to display

© 2026 Boyum IT Solutions A/S

	the real requirement for each version). • Check box **empty**: Display the the whole item requirement ignoring any version. By default, this parameter is disabled (i.e. not grouping the requirements by version). NOTE: If a batch/serial-managed Item has information in the I-Version field, but there is no existing I-Version, this field is used as information, and the MRP is going to consider this item as a non-version managed item. Therefore, if the flag "Consider I-Version" is enabled in the MRP Scenario, this MRP Scenario is not going to be able to display any requirement for this Item. To see the requirements, you should execute an MRP Scenario with this flag disabled. Non-batch/serial managed items with item version are not supported. If this type of item has item version with separate Bill of Materials, the MRP calculation result will be incorrect. For more information ***see*** DataCheck.
Coverage calculation priority	Select the type and priority of coverage calculation: - **By Documents:** Cover the demand of the coverage calculation by documents. Priority for coverage calculation is defined in requirement coverage calculation. Priority of documents: 1. WO, 2. Sales Documents, 3. Forecast. - **By Date:** Cover the demand of coverage calculation by date. Documents affected for this parameter in coverage calculation: 1. WO, 2. Sales orders and Precalculations, 3. User table, 4. Forecasts. ***See*** Requirement coverage calculation.

© 2026 Boyum IT Solutions A/S

9.1.1.2.2 Breakdown replenishment

Breakdown replenishment

Peggings cause another requirement in the case of assemblies. If there is a resource (work order, goods issue by order, etc.) for this assembly, its requirement can be covered and therefore it is not broken down further. You can configure which resources should be considered. If you activate all possibilities, the net breakdown is performed; if nothing is activated, the gross breakdown is performed.

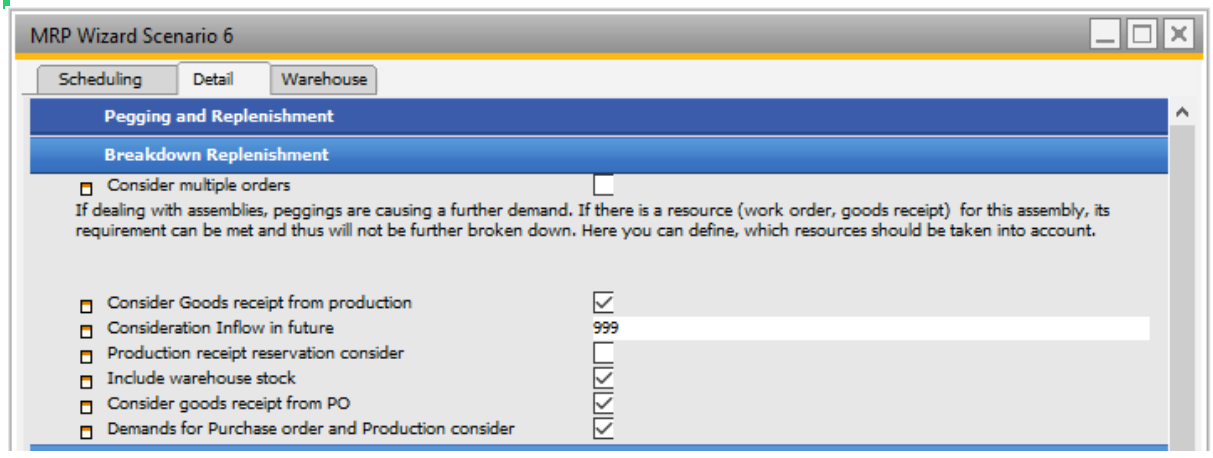
See: Requirement coverage calculation

Example:

For net breakdown:
Order A consists of 100 item B
Inventory in warehouse 50 item B
Each item B consists of 5 item C
Requirement for item B: 100, but balance only 50
Requirement for item C: 250

For gross breakdown:
Order A consists of 100 item B
Inventory in warehouse 50 item B
Each item B consists of 5 item C
Requirement for item B: 100, but balance only 50
Requirement for item C: 500

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_option_struktur.psr

© 2026 Boyum IT Solutions A/S

Field	Description
Consider multiple orders	Determines whether multiple orders are to be considered at the breakdown of assemblies. Affects the minimum purchase quantity and the order multiple of an assembly. ***See*** Item master – Planning data Minimum order quantity is always considered. Affects the function requirement coverage calculation only. Only material and the sub-assemblies of the assembly which has multiples orders are affected. If a subsequent requirement originator is covered by the multiple order of the predecessor, the subsequent pegging gets the same order proposal date. ***See*** Example 3. **Note**: Sub-assemblies and material requirement are combined in this case. In the Origin of requirement function the requirement coverage is displayed in a note. ***See*** Requirement coverage calculation ***Example 1:*** Assembly A (order multiple = 50) Assembly B (= BoM of Assembly A, not order-related) Sales order 1 for "Assembly A" 30 pcs Arising requirement: "Assembly A" from sales order 1 = 50 pcs "Assembly B" from sales order 1 = 30 pcs ***Example 2:*** Sales order 1 for "Assembly A" 30 pcs Sales order 2 for "Assembly A" 5 pcs Arising requirement: "Assembly A" from sales order 1 = 30 pcs "Assembly A" from sales order 2 = 5 pcs "Assembly B" **Total** 50 pcs

© 2026 Boyum IT Solutions A/S

"Assembly B" can cover 2 sales orders because of this setting in the parent item.

Example 3: Order proposal date

Assembly A, Minimum order quantity is10, no stock, cycle time is 1 day.

Forecast 7. January: 4 pieces, order proposal: 6. January

Forecast 8. January: 4 pieces, order proposal: 6. January

Forecast 9. January: 4 pieces, order proposal: 8. January

Forecast 7: temporary 10 pieces are produced until January 6th. Forecast 8 is completely covered and Forecast 9 partly. From Forecasts 9, 2 pieces remain. More needs to be produced, accordingly a new date is calculated and displayed.

Note: refers to versions from beas9.1-004-058

Example 4:

With minimum order quantity and without multiple order:

`Assembly A` (Minimum order quantity = 50)

`Assembly B` (= BoM of Assembly A, not order related)

Sales order 1 for "Assembly A" 30 pcs

Sales order 2 for "Assembly A" 5 pcs

Arising requirement:

"Assembly A" from sales order 1 = 30 pcs

"Assembly A" from sales order 2 = 5 pcs

"Assembly B" **Total** 50 pcs

Example 5:

With minimum order quantity and without multiple order:

Sales order 1 for "Assembly A" 30 pcs

Sales order 2 for "Assembly A" 5 pcs

Arising requirement:

"Assembly A" from sales order 1 = 50 pcs

"Assembly A" from sales order 2 = 5 pcs

© 2026 Boyum IT Solutions A/S

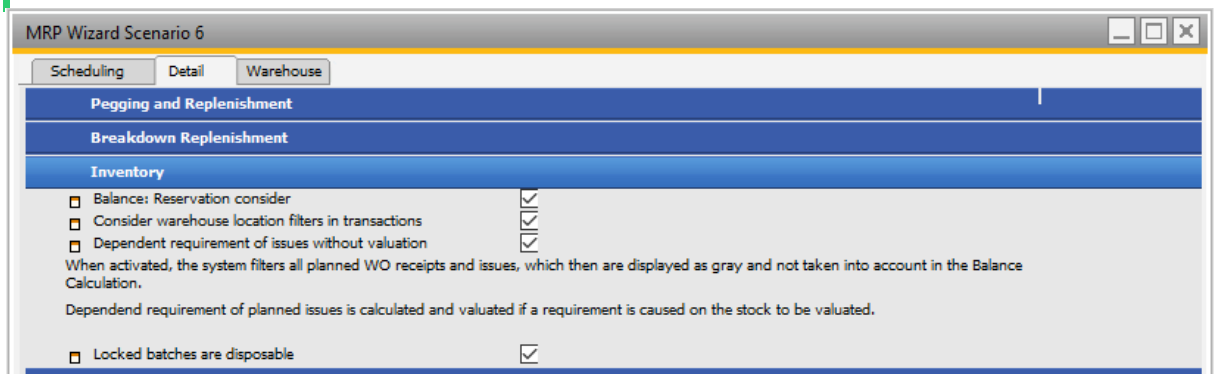
	"Assembly B" from sales order 1= 50 pcs "Assembly B" from sales order 2 = 5 pcs No summary, because Assembly "B" is produced with minimum order quantity of 50 and covers sales order 1. The date is also considered. For additional information, ***see*** Requirement coverage calculation **Attention**: MRP2 - Resource planning: Summarized values are displayed as a forecast. **NOTE:** If there is a lower level item that has requirements from different parent items and these parent items have Multiple orders or minimum order quantity, it is recommended to enable this parameter.
Consider goods receipt from production	Production receipts are taken into account if they are available at the requirement date. ***See*** Requirement coverage calculation.
Consideration of inflow in future	Number of days between the planned outflow and the planned receipt. Default setting is 999, which means that if the planned receipt is within 999 calendar days after the requirement day, it is taken into account. **Important**: This flag only applies to items where "Breakdown" is different from "Order-related" items. Item breakdown. ***See*** Requirement coverage calculation.
Production receipt reservation consider	Only order-related items are affected. Disabled: There is a 1 to 1 link between customer order and work order; reservations are ignored. Enabled: Order assignments are ignored, only receipt reservations are considered.
Include warehouse stock	Inventory is considered for sub-assemblies.
Consider goods receipt from PO	Planned purchase receipts are taken into account, if they are available at the requirement date. Buffered and blocked purchase orders are not considered.
Demands for Purchase order and Production	☐ Consider purchase and production requests. If active, requests for purchase and production are considered. This option is displayed only, if **Pegging and replenishment > Purchase**

© 2026 Boyum IT Solutions A/S

	> Purchase order and **Details > Purchase > Request** are activated.

9.1.1.2.3 Inventory

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_option_struktur.psr

Inventory

Field	Description
Balance: Reservations consider	**Disabled:** Reservations are ignored in the calculation. **Enabled:** Reservations are subtracted from stock. From outflow reservations are subtracted, leading to a neutralization of reservations in balance calculation. The balance does not change, the switch determines only the time at which a reservation is subtracted. This only works if the reservation system is enabled. ***See*** Order recommendation view – requirement – balance
Consider warehouse location filters at transactions	☐ Consider warehouse area filters at transactions. In MRP Wizard > Planning scenarios > warehouses you can define warehouses to be included in the calculation. This is used to define consideration for planned inflow and outflow. Enabled: Warehouse tab filter is considered at the calculation. Planned inflow and outflow is grayed out, balance is not affected.

© 2026 Boyum IT Solutions A/S

	Disabled: Warehouse tab filter is not considered at at the calculation. Planned inflow and outflow is always displayed, regardless of the warehouse where the item is stored. ***Parameter enabled example*:** If in a calculation you only want to see documents on transactions, but not the current stock, deselect the warehouse in the Warehouse tab. ***Parameter disabled example*:** Consider parameters only from the master data, like minimum inventory, but not the planned transactions. The balance is affected according to the transaction made (sales order, purchase order, work order). The following is affected by this parameter: • All types of sales documents (sales order, advance invoice etc.) • Production inflow • Production outflow • Purchase documents (PO, quotations etc.) Documents, which do not have a stored warehouse (e.g. blanket agreements) forecasts and SCM-entries are always displayed.
Dependent requirement of issues without valuation	Include planned issues without valuation in the calculation. Displayed if "Consider warehouse location filters at transactions" is enabled. If active, the dependent requirements of non-valued, planned transactions are calculated. Not affected: work orders, because their BoM requirement is already planned.

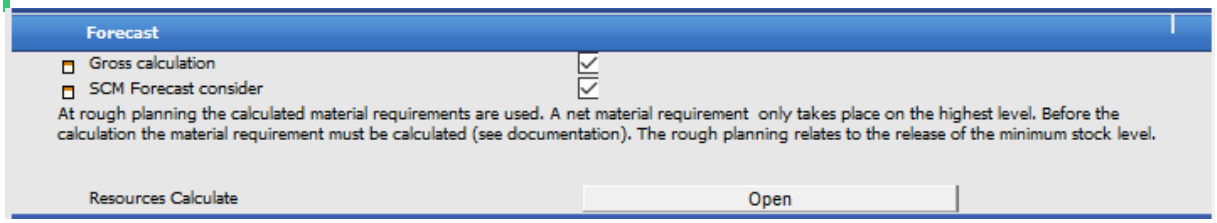
© 2026 Boyum IT Solutions A/S

	***Example*:** Sales order is for a bicycle in the warehouse, which consists of two wheels from warehouse 01. MRP is run for warehouse 01 Warehouse filter for transactions is enabled. If this option is enabled, the requirement of 2 wheels is calculated and valued because the goods are stored in Warehouse 01.
Locked batches are disposable	If this option is activated, blocked batches are valued as available stock at inventory calculation. This option is activated by default.
Filter by WMS Quality Status	Filter MRP results by Produmex WMS Quality Statuses - Only available with WMS databases Select the WMS Quality Status(es) to be considered in viewing MRP calculation results. Unchecked statuses will be ignored, and if the parameter is left empty (that is: no status is selected), all quality statuses will be considered by the filter. After the calculation process is finished, the system displays the available stock in the column "Warehouse Stock", considering the selected quality statuses. The following WMS Quality Statuses are available for filtering: BLOCKED, QUARANTINE, REJECTED, RELEASED, RETURNED, SHIPPING UNDER QUARANTINE ***See*** more details about WMS Quality Statuses on the Produmex WMS help page.

9.1.1.2.4 Forecast

Forecast

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_option_struktur.psr

© 2026 Boyum IT Solutions A/S

Field	Description
Gross calculation	If long-term forecasts must be calculated with complex assembly structures, the calculation can be time and resource consuming. Details As for long-period calculations, results exact to the minute are not necessary. A fast mode of calculation is provided here: gross calculation. The material requirements are determined using the function "calculate resources" and must not be broken down at the time of the calculation of the purchase recommendation any more. **Important:** If this method is activated, the material requirements must be calculated first for all assemblies concerned, or after greater changes. Requirement coverage calculation is not available, but balance calculation is. ***Example*** Finished part "A" - semi-finished part (storage related) "W" - purchase part "P" stock "W" = 2 pieces requirement "A" = 5 pieces Net requirement calculation results: A = 5 pieces, W = 5 pieces, purchase part "P" = 3 pieces, because W is covered from stock (requirement coverage calculation) Gross calculation A = 5 pieces, W = 5 pieces, purchase part "P" = 5 pieces, because no requirement coverage calculation is performed.

© 2026 Boyum IT Solutions A/S

	Resource scheduling (MRP2) is based on lead time calculation. Therefore "gross calculation" must be deactivated if resource scheduling is required. Item setting "multiple order" is not considered. Order-related assemblies are not displayed (they have no effect on balance calculation) ***See***: Calculate resources The function should be activated only for extensive long period forecasts. The function per default is deactivated.
Calculate Resources	Only active if "Gross calculation" is enabled. The material requirement can be calculated in advance for assemblies with this option. ***See***: Calculate resources
SCM Forecasts consider	Only visible if SCM is activated in this database. If enabled, order recommendation considers forecasts from SCM. **Note**: setting in **Configuration wizard > Materials Management > MRP Wizard > Forecasts > Forecast consider > like planned customer orders** is not taken into account. SCM forecasts are always considered based on the SAP Business One Standard.

See

Configuration Wizard – Forecast

Forecast (SAP)

Planning scenarios – Planning

MPS

9.1.1.2.5 Resources

Resources

Field	Description
Enable resource scheduling	Option is only visible if **lead time for assemblies** is enabled in calculation types.

© 2026 Boyum IT Solutions A/S

	Forecast – Gross calculation must be deactivated. If it is enabled, it will be disabled automatically when activating the resource scheduling. When using this option, required resources for a scenario are also calculated on top of material requirements. The calculation time is increased with this option. Results can be viewed in the Order recommendation window using the resources button.

Note:

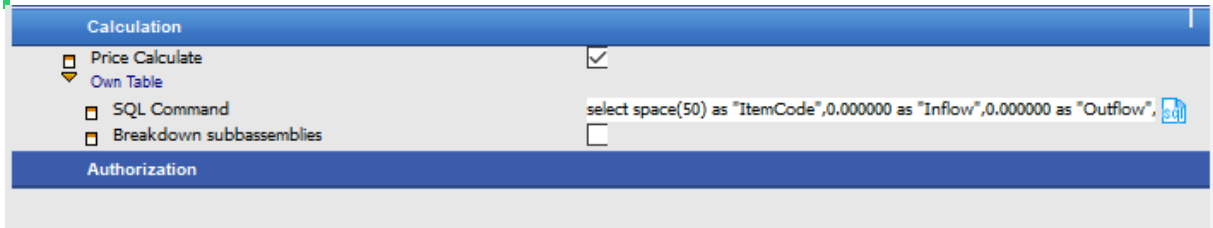
Parameter	Status	Status of resource scheduling
Calculate lead time for assemblies	Disabled	Deactivated and hidden.
Forecast > Gross calculation	Enabled	Deactivated. If Resource scheduling is activated, then Forecast > Gross calculation is deactivated in return.

If Consider order multiples is activated, sales order are displayed as Forecast.

For further details on Resource calculation and MRP2 ***see*** Requirement of resources MRP2.

9.1.1.2.6 Calculation

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Detail** tab.



Window system_option_struktur.psr

Calculation

Field	Description
Price calculation	If active, the purchase price is calculated during the MRP run and displayed in the results list. If this option is disabled, it is calculated only if a purchase is created or

© 2026 Boyum IT Solutions A/S

	the amount or the supplier is changed. This option can be disabled to shorten calculation time and if no purchase orders are to be created.
Own Table - SQL Command	It is possible to read inflow and outflow from other tables. Define the SQL table to read information from

You can define the SQL statement to read the information.

Example: You have a third-party system and you want to read the material requirement from this system into the Beas MRP or to an additional external work order program.

You can work with Views or Tables. Procedures are not supported.

The following columns are supported:

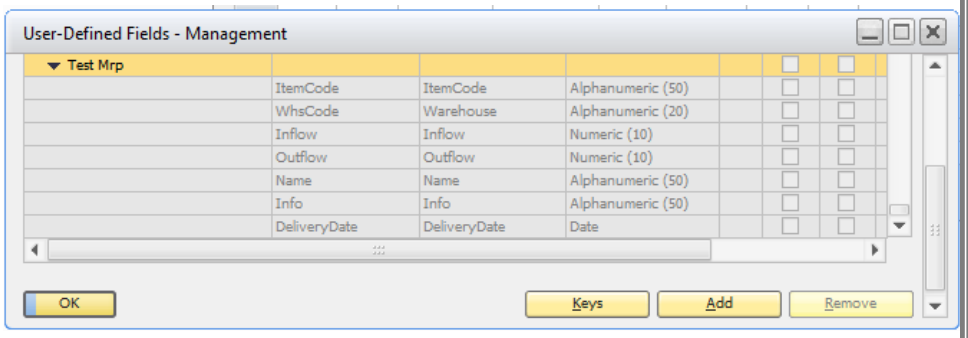
Field name	Field typ	Mandatory	Description
Itemcode	varchar(50)	yes	The itemcode
WhsCode	varchar(50)	no	Warehouse. If it is not defined or empty, the MRP uses the default warehouse of the item.
Version	varchar(20)	no	The Item Version. If it is not defined, the MRP uses the default version number of the item.
DrawingNumber	varchar(50)	no	The Drawing Number. If it is not defined, the MRP uses the default drawing number of the item.
Confirmed	char(1) or integer	no	Confirmed prompt. Allowed: 1/0, Y/N, J/N, True/False etc.
Project	varchar(20)	no	Project Code. Attention: The MRP system does not validate the value.
Inflow	decimal	yes	Inflow quantity.
outflow	decimal	yes	Outflow quantity.
Inflow_wo	decimal	no	Inflow quantity for production.
Outflow_wo	decimal	no	Outflow quantity for production.

© 2026 Boyum IT Solutions A/S

Field name	Field typ	Mandatory	Description
Name	varchar(50)	yes	Name of requirement.
Info	varchar(50)	no	Information for requirement.
Info2, Info3	Varchar(50)	no	Additional information for requirement.
udf1 ... udf4	varchar(50)	no	Userfields 1-4.
DeliveryDate	DateTime	yes	Delivery date.
Color	Number	no	Color for view.
BmpName	varchar(50)	no	Bitmap File name, e.g. "bmp\active.png". **Attention**: The picture must exist on the client. Do not use a network folder.

Example

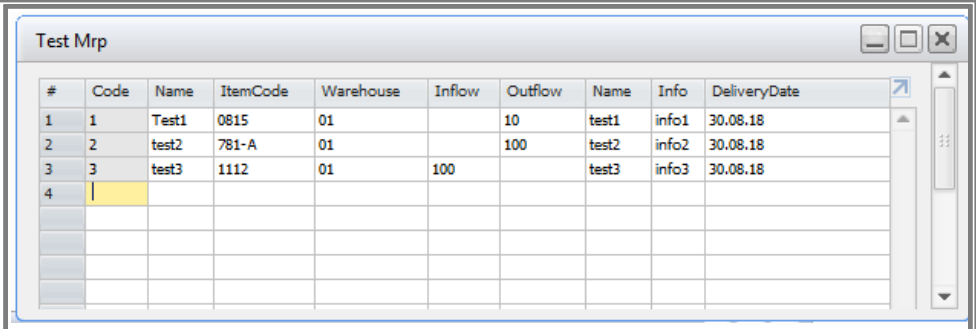
A user defined table.



Window beasgui_sbo.psr

PATH: Tools > User Defined Windows > Insert example data.

© 2026 Boyum IT Solutions A/S

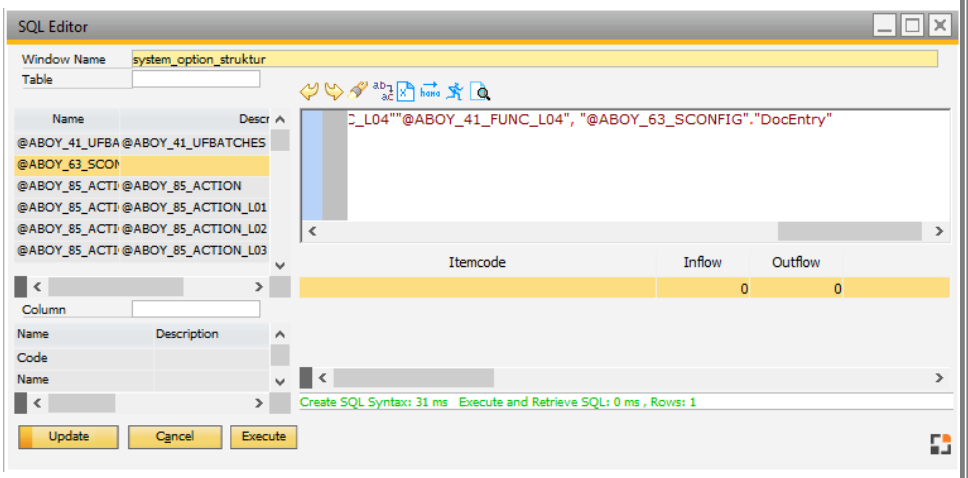


PATH: MRP Wizard > Calculation > Own Table > SQL Command.

1. Define the SQL command.
2. Click on the SQL icon to insert a sample SQL statement that you can modify according to the requirements.

With the `as` command you can define the correct name.

3. Click on **Execute** to test the result. The field name must be correct.



Window sys_ sqleditor.psr

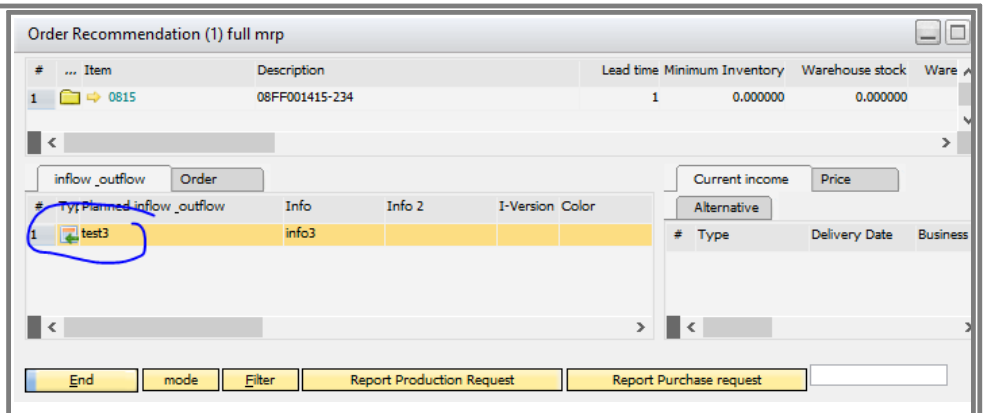
Attention:

If the field name is not correct, for example `"Test_mrp_ItemCode"` and not `"ItemCode"`, it must be renamed with the `as` command:

```
coalesce("@TEST_MRP"."U_ItemCode",'') as itemcode
```

In MRP, user-definded entries are marked with type "U" and with an icon:

© 2026 Boyum IT Solutions A/S



Window mrp_view_masterrahmen.psr

Attention:

- Requirement coverage calculation is ignored.
- Forecasts are ignored.
- Refreshing after creating the documents is not working.

Own Table - Breakdown subassemblies	If this option is enabled, Beas MRP breaks down the material and subassemblies for the user-defined SQL table.

9.1.1.2.7 Authorization

In addition to the standard rights administration, access rights for each schedule can be adjusted individually.

Both access management systems are used. Therefore, to get access to the planning, one needs the standard right for purchase order recommendation lists, as well as the right defined in this authorization.

If the Authorization section is left empty, this authorization control is not activated.

Field	Meaning
Setup	Authorization for changing planning settings.
View	Authorization for opening order recommendations.
Calculation	Authorization for calculating planning.

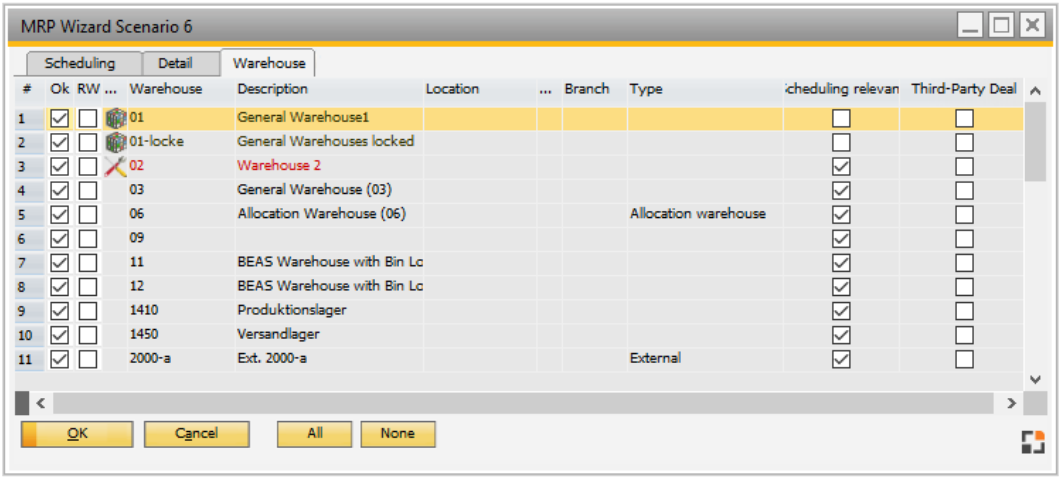
back to planning scenarios

© 2026 Boyum IT Solutions A/S

9.1.1.3 Warehouse

Warehouses to be included in the calculation can be selected in this tab.

PATH: MRP > MRP Wizard > Select a scenario > click the **Open** button > **Warehouse** tab.



Editable fields:

OK: Include the selected warehouse in the calculation - calculate all requirements in the selected warehouses.

RW: Mark selected warehouse as Replenishment warehouse. When marked, the OK flag is unchecked as this flag indicates that this warehouse is to supply materials to all other warehouses in the list.

See Transfer tab for MRP Inventory Transfer Request. ***See*** also MRP Replenishment Warehouse tab.

Other fields are not editable and are linked from the Warehouse master data window.

Buttons:

All: Select all warehouses in the list.

None: Deselect all warehouses in the list.

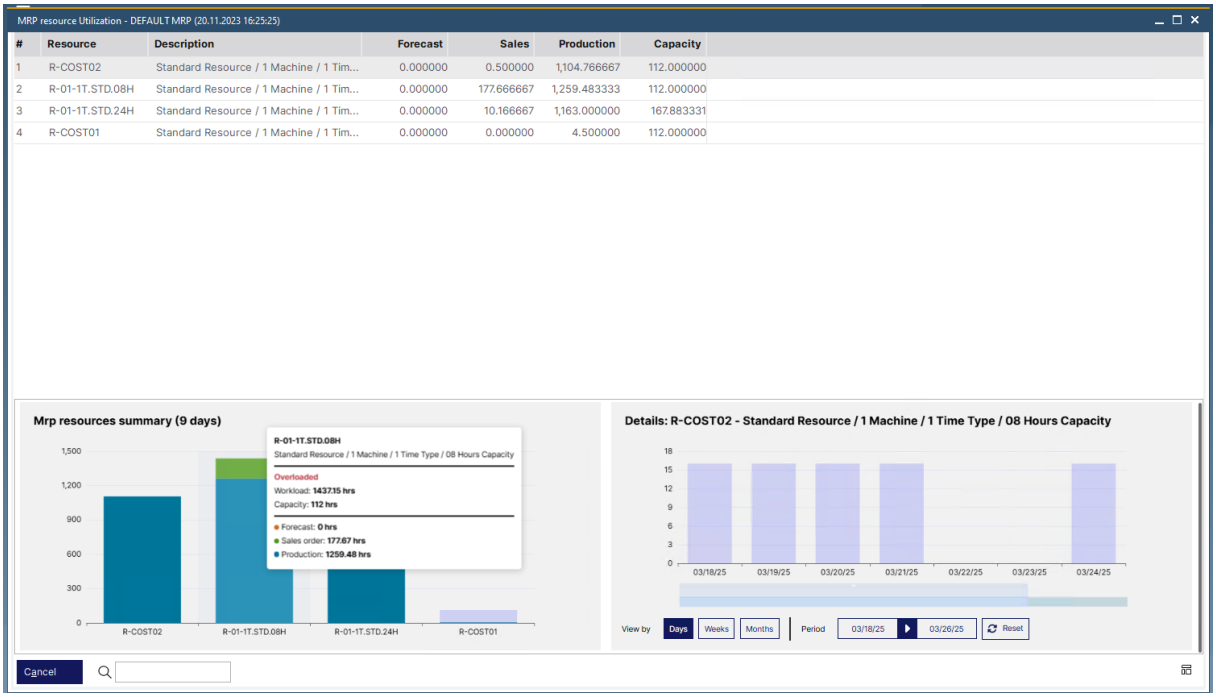
For impacts, ***see*** Detail – Inventory – Warehouse filter for transactions and Requirement coverage calculation.

9.1.1.4 Requirement of resources MRP2

PATH: MRP > MRP Wizard > Select a scenario > click the **Resources** button.

PATH: MRP > MRP Wizard > **Order recommendation** button > **Resources** button.

© 2026 Boyum IT Solutions A/S



Window: mrp_view_resource_web.psr

Planned resources dispatching for this scenario contains the following:

Resource	Name of resource
Description	Description of the resource
Forecasts	Forecasts, multiple orders, Planned work orders without customer reference, Minimum inventory, Sums

Type	Description
Forecast	Forecasts selected in MRP Wizard.
Multiple orders	If multiple orders are enabled in the MRP wizard and a multiple order is defined in the item, the lower assembly structure is not summed up. The lower structure has no relation to sales orders, forecasts, minimum inventory and is displayed under Forecasts.
Planned work orders	Planned work orders without a customer.
Summaries	If you work with summaries (per day, week, month), the reference to peggings is lost (pegging to work order, sales order etc). For this reason these summaries are displayed under forecasts.
Minimum	Requirement from minimum stock.

© 2026 Boyum IT Solutions A/S

	inventory
Sales order	Sales orders, Advance invoices, planned work orders with customer reference Sales order: Sales order or advance invoices. Planned work orders: Planned work orders without a customer.
Production	Work order (except planned work orders).
Capacity	The available capacity of each resource.

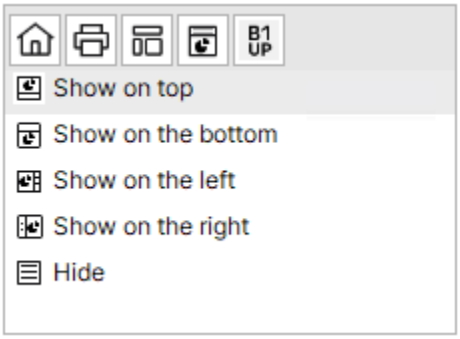
Graphical display

The graphical display provides a summary of all Resource utilization and the relevant details of a selected resource in a chart view.

You can dynamically set the window structure of your preference by selecting the placement of the graphical display in the contextual menu. The appearance is user-dependent and can be set in each screen individually.

Adjust display size by Ctrl + Scroll up/down.

Graphical Contextual menu



Menu entry	Description
Show on top	Places the graphical display on the top of the window.

© 2026 Boyum IT Solutions A/S

Menu entry	Description
Show on bottom	Places the graphical display at the bottom of the window.
Show on the left	Places the graphical display on the left side of the window.
Show on the right	Places the graphical display on the right side of the window.
Hide	Hides the graphical display.

Graph Description

MRP Resources summary (XXX days)

Workload / Resource

The graphics display all the resources scheduled ("X" axis) in the given MRP scenario by the number of hours ("Y" axis) of workload taken by resource scheduling. When hovering over a column in the chart, a tool tip is displayed (***see*** image above) with all the planned capacity information broken down to forecasts, Sales orders and Production (planned work orders).

Tool Tip Description

Tool tip entry	Description
Name of Resource	The name of the viewed resource
Overloaded	When the "Workload" exceeds 90% of the dispatching index of a

Details: XXX Resource...

Workload / Time

This graphics section displays the capacity and workload (number of hours on the "Y" axis) of one, selected resource by a selected time range ("X" axis). You can select a resource to be viewed here in the numbered list or by clicking on it in the "MRP Resources summary (XXX days)" chart.

Tool Tip Description

Tool tip entry	Description
Date / Week 01-52 / Month 01-12	The date / Time range being viewed.
Overloaded	When the "Workload" exceeds 90% of the dispatching index of a resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the selected resource.

© 2026 Boyum IT Solutions A/S

MRP Resources summary (XXX days)

Tool tip entry	Description
	resource, the system indicates this with a red "Overloaded" note (***see*** image above).
Workload	Scheduled hours for the selected resource.
Capacity	The available capacity of the selected resource in hours.
Forecast	Number of scheduled hours for Forecasts, appearing in ORANGE in the graph.
Sales Order	Number of scheduled hours for Sales orders appearing in GREEN in the graph.
Production	Number of scheduled hours for Work orders appearing in BLUE in the graph.

Details: XXX Resource...

Tool tip entry	Description
Capacity	The available capacity of the selected resource in hours.
Forecast	Number of scheduled hours for Forecasts, appearing in ORANGE in the graph.
Sales Order	Number of scheduled hours for Sales orders appearing in GREEN in the graph.
Production	Number of scheduled hours for Work orders appearing in BLUE in the graph.

Controls

Control	Description
View by	
Days / Weeks / Months	Select the unit of time range to view utilization details of the resource.
Period	Select a start- and end date for the period that you wish to view.
Reset	Click this button to set the viewing period to the default starting date: today
Slider bar	The slider bar below the X axis shows the total time of the selected period to refine/re-adjust time selection or easily jump to any part of a longer period.

© 2026 Boyum IT Solutions A/S

Back to MRP Wizard

9.1.1.4.1 Peggings Resources

In this window the peggings for the selected resource and period are displayed.

Window mrp_resource_link.psr

Column	Meaning
Type	Order type.
Description	Order description.
Item	Item number.
Description	Item description.
Date from	The earliest requirement date for the selected period.
Date to	The latest requirement date for the selected period.
Planned duration	Planned time in the period.
Planned calendar week	Planned calendar week (for monthly view: earliest week) .
Planned outflow	Planned outflow.

9.1.2 Calculation

This chapter details the calculation processes in MRP.

MRP Calculation
Calculation time
Calculation order proposal date
Requirement coverage calculation
Automatic calculation

9.1.2.1 MRP calculation

Material requirements for a production process can be planned in the order recommendation. Material requirements are determined by the MRP calculation and are based on the current stock and forecasts. The requirement or planned requirement is compared to the stock and inflow and the recommendation is prepared.
An accurate calculation requires correct data and settings. Therefore, a data check is provided by MRP. The most important items in master data are checked. If any errors are found, a note is issued before starting the calculation.

© 2026 Boyum IT Solutions A/S

Peggings made in the past are taken into account. If there are peggings in the past, a correct balance calculation is not possible. Correct the delivery dates, that are in the past or cannot be met anymore.

Negative amounts:

A correct requirement computation is not possible, if there is negative stock. We strongly recommend our users to deactivate negative stock in SAP Business One.

Requirements include:

- Customer Orders
- Calculations which are associated with the customer orders
- Projections
- Manufacturing Disposals (BOM)
- Forecasts
- Minimum stock
- If necessary, third-party systems

Inflow can be:

- Goods receipt from production orders
- Production requirements
- Requisitions
- If necessary, third-party systems

The **current inventory** is the sum of all the stocks:

- Without taking into account blocked items
- Excluding storage are for blocked stock

Receiving storage locations, storage for provisions and other stores are taken into account.

Note: Only valid, not blocked items, and non-phantom items are are taken into account. Additionally, the "stock item" and "planning system" parameters must be activated. The item must be a "Purchased part" item or "Breakdown" must be defined as "Make".

In the results only items with a requirement are displayed. If all items are to be displayed, regardless of the requirement, set the filter to "show all" in the result window to display all selected items in the scenario.

Note: Regardless of the settings, all items are computed. For more information, ***see*** Planning scenarios – Detail – Item.

© 2026 Boyum IT Solutions A/S

Multi-level - Calculation of delivery date

On the breakdown of the assembly BoM, the stored routing is taken into account and the demand is scheduled accordingly, as long as goods are not reserved. ***See*** Configuration wizard – Production – Reservation and Requirement coverage calculation.

The Delivery date is calculated using standard capacity planning with forward simulation. Existing dispatching is not considered and no resources are assigned.
The following factors affect the calculation:

- the routing stored in the item
- the resource stored in the routing
- the day capacity defined in the company calendar

For more information on the calculation function: ***see*** capacity planning.

Exception:

If a calculation is stored in a customer order, the dissolution is subject to the parameters of the associated calculation. If a production order has already been created, the requirements from the production order are used and the calculation and master data are ignored.

Warning: If the calculation contains assemblies, which are produced as order-oriented, these are not automatically established at the creation of the production order. In this case, a gap arises in the requirements calculation. Therefore, only order-related assemblies may be used for order-related calculations. The assembly MRP indicator in the calculation is used and not the one from master data.

NOTE on lead time calculation of sub-assemblies:

ATTENTION: In case of sub-assemblies, the parameter **only** affects lead time calculation of order-related sub-assemblies used as WO BoM! For storage-related sub-assemblies, the system uses fix lead time defined in Item master data.

Forecasts

With forecasts the requirement can be scheduled before the actual receipt of customer orders. Any projections can be defined and taken into consideration in the order proposal list.
Forecasts can be scheduled daily, weekly or monthly. Forecasts are defined in **SBO > MRP > Forecasts**.

Forecasts are taken into account if:

- They are in the future

© 2026 Boyum IT Solutions A/S

- Requirements are not covered by customer orders

  Example: There is a forecast of 20 and customer orders of 10, the prognosis for the requirements calculation is reduced to 10.

Monthly forecast: In the current month only the remaining percentage of the requirements are taken into account. Requirements for this month: Daily requirements for the month * remaining days of the month.

Example: It is 10th January and for this month there is a forecast for 100 units. Requirement is calculated: (100/31 days) * 21 days remaining = demand of 67.7 for the remainder of January.

Multistage: Forecasts are always broken down. Existing stock is not included.

Note: The **SBO > Administration > System Initialization > General Settings > Planning** setting has no influence on the Beas – Order proposal calculation.

Priorities

Priorities are considered.

Minimum / Maximum stock

Minimum stock: From the desired inventory or minimum stock, the higher value is taken into account.

***Example**:* Desired inventory = 10, minimum stock = 5, desired inventory of 10 is used.

Phantom assemblies

A phantom assembly itself is not displayed, but its BoM is (at multi-level calculation).

9.1.2.2 Computation time

The calculation of material requirements planning is done mostly with in-memory technology and is highly optimized. However, calculation can get complex and can become time-consuming for large data sets .

To analyze the performance of the calculation process use the MRP Scenario Planning > Analysis function.

If the process crashes, try to increase the memory allocated to the process. ***See*** 32Bit with 4GB Memory

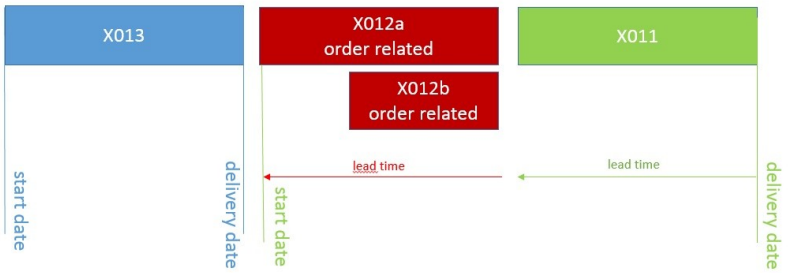
Depending on the data load, various measures can be taken. ***See*** Suggestions for improvement.

© 2026 Boyum IT Solutions A/S

9.1.2.3 Calculation of order proposal date

Field	Description
Delivery date customer order	Delivery date stored in the customer order, prognosis, or another requirement originator.
Average delivery time	Average delivery time in work days, defined in the Configuration Wizard.
Lead time according to item master	Lead time in working days according to the item master, given lead time for planning.
Calculated lead time	⊟ For an assembly (storage-related production): Using a backward scheduling simulation (routing of the assembly) the latest possible start date is calculated. Lot size is the requirement quantity. Multiple orders are not taken into account here. ⊟ For order-related production: Using a backward scheduling simulation (routing of the assembly) the latest possible start date is calculated for the complete order-related item structure. This corresponds to the start date of the sub-assembly which must be produced first. Lot size is the requirement quantity. **Important**: The multiple orders, lot size, existing time reservations on resources are not taken into account during calculation. **ATTENTION:** In case of sub-assemblies, the parameter **only** affects lead time calculation of order-related sub-assemblies used as WO BoM! For storage-related sub-assemblies, the system uses fix lead time defined in Item master data. If calculation of the lead time was disabled, the item lead time is used as reference. The lead time is the sum of a single lead times of the order related sub-assemblies.

© 2026 Boyum IT Solutions A/S



Example 1: Lot size and setup time.
Assembly A with operation sequence A1, 10 days setup time, lot size is 10.
Company calendar: Every day is a working day.

Customer order, delivery date 30.12.
Pos 1 100 pieces: Calculated: 10 days, start 20.12.
Pos 2 100 pieces: Calculated: 10 days, start 20.12.
Pos 3 200 pieces: Calculated: 10 days, start 20.12.

Example 2: Lot size and time for processing.
Assembly A with operation sequence A1, time for processing 1 hr/piece, lot size is 10.
Company calendar: Every day is a working day.
Resource has 1x10 hrs/day.
100 pieces = 10 days

Customer order, delivery date 30.12.
Pos 1 100 pieces: Calculated: 10 days, start 20.12.
Pos 2 100 pieces: Calculated: 10 days, start 20.12.
Pos 3 200 pieces: Calculated: 20 days, start 10.12

Apparently, there is a problem, there is only one single resource, capacity limits and time reservations are not taken into consideration. This problem can only be avoided by the production orders being created as planned orders. Using APS, planned orders can be correctly scheduled and necessary resource times can be reserved.

© 2026 Boyum IT Solutions A/S

Requirement date according to the forecast	The planned requirement date that is defined in the forecast. In a monthly forecast, it is the beginning of a month, in weekly forecasts, the Monday of the respective week. In case of an assembly, the required date of the sub-assembly is earlier.
Pre call time for prognoses	In the **Configuration Wizard MRP > Calculation > Forecast > Pre call time for prognoses** in calendar days.

Determining the date, depending on pegging

Field	Description
Customer order purchase part	Delivery date according to the customer order, average delivery time. Lead time according to the item master, period needed for replacement.
Customer order anonymous and order related production	Delivery date according to the customer order, average delivery time. Lead time according to the item master, period needed for replacement.
Forecast purchase part	Requirement date pre-call time for prognoses, lead time according to the item master, period needed for replacement.
Production BoM position	If the BoM is assigned to a routing position, its Processing time – Start time is as follows: Details: • With the Issue material with first operation setting the Processing time – Start time is the first reportable, active routing position. • With the Issue material later setting, the Processing time – Start time is the last reportable, active routing position. • If there is no reportable routing position, the delivery date is used as reference. If the Consideration of link to routing parameter in the MRP Wizard was disabled, the start time of the work order position is used. If this was not set, the delivery date is used. From the date calculated this way, the first working day is determined according to the factory calendar. Then, the Item – lead time is subtracted in calendar days, and the lead time – safety days as per configuration wizard is subtracted in work days.

© 2026 Boyum IT Solutions A/S

	If dealing with a purchase part, the Goods receipt – Idle time is also subtracted. If the resulting date is in the past, the order recommendation date is the next work day starting from the current day. ***See*** Order recommendation – Requirement.

9.1.2.4 Requirement coverage calculation

MRP always breaks down the assembly requirements (e.g. from customer orders). If the sub-requirement (BoM of an assembly) is again an assembly, the system first checks whether this can be covered by stock or by planned inflow (= temporally stock reservation). If not, this is broken down further. For this, during the calculation, the planned inflow is temporarily assigned to the planned outflow.

See Coverage Calculation priority settings.

Example:
Sales order with Finished Product A
This product needs Semi-Finished Product B and B needs Material M

Item structure

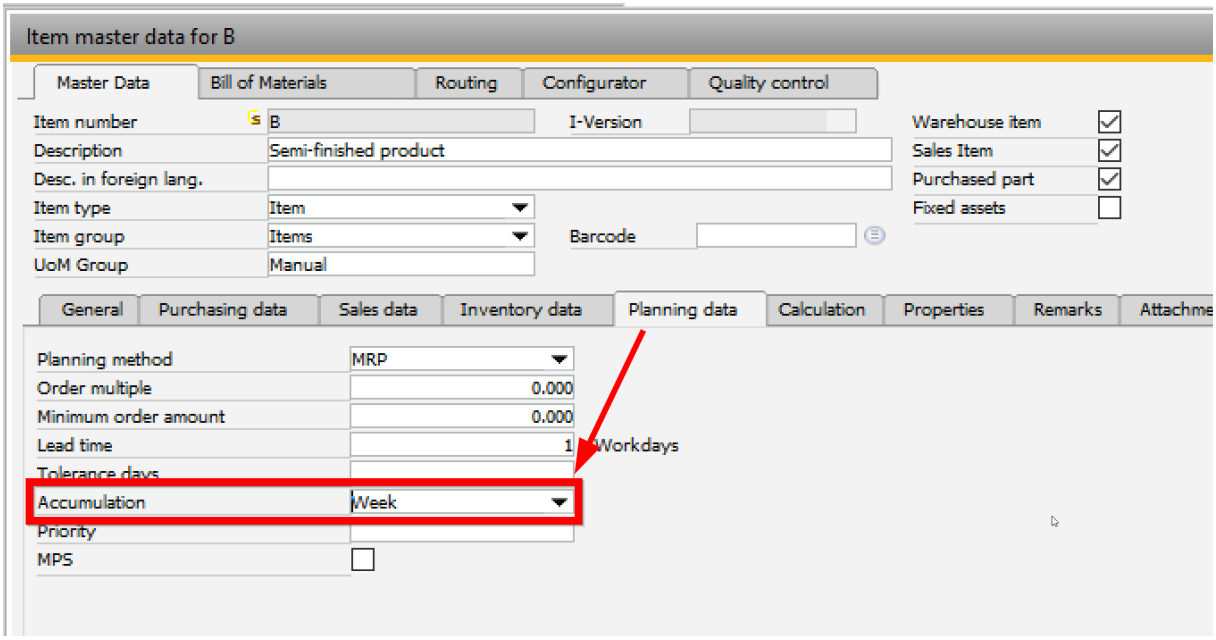
Item no., Resource, op. sequ.	Brief Description, Activity	Quantity	Setup	JT	Dra
A	Finished Product				
A 10 B	Semi-Finshed Product	1,0 Pcs			
A 10 M	Material	1,0 Pcs			
10 R-01-1T.STD.08H	Internal Operation STND003 - Standard (default Resource only)		5,000	120,000	
10 R-COST01	Internal Operation for Costs - Standard (default Resource only)		10,000	120,000	

During the calculation of MRP, Beas considers: A is required. If order-related, Beas does not check the stock. It must be produced. B is stock-related. The system must produce it only if no stock is available. It checks the stock. If available, Beas reserves the requirement temporarily for this Sales order.
If no Stock is available, the system simulates the production of B and creates a requirement for M.

Note:
B is Stock-related. Beas calculates this related to the requirement of the sales order. But it is used in view of a stock-related item. In the result you see the Sales order, which produced the requirement during the MRP calculation, but the result is always stock-related.

© 2026 Boyum IT Solutions A/S

For stock-related items it is always better to set the correct view in MRP. You can do this with the setting “Accumulation” = Day/Week/Month



The reservations calculated during the MRP processing are made at a time when it is not yet known which sub-finished goods or material is actually required. At the time of MRP computation, the full balance calculation for each item is not yet known when processing a single document (work order, sales order etc.) Therefore, Beas uses the priorities described below for assigning the temporary reservation to different pegging originators.

- Priority steps for assigning temporary reservation to different pegging originators

1. Minimum inventory
   [+] Example: Item A stock related, Stock 6 Pcs, Minimum 10
   The system simulates a production order for 4 Pcs. This produces a requirement for 4 Pcs for Semi-Finished product B
   The requirement date for the Finished-Product (in this case A) is always today.

2. Existing production outflow (BoM) of work orders and planned orders
   [+] Order by Delivery Date ascending, Document Number
   Example: Work order existing for Finish Product “A”, 10 Pcs
   This has a Bill of Materials position “B”. If no stock is available, the system simulates a production order for Semi-Finished Product “B” and this produces the requirement for Material “M”.

© 2026 Boyum IT Solutions A/S

3. Customer orders, advance invoices, forecasts with setting "like customer order"

Order by Delivery Date ascending, Document Number

4. Transfer Requests
   Order by Request Date ascending, Document Number

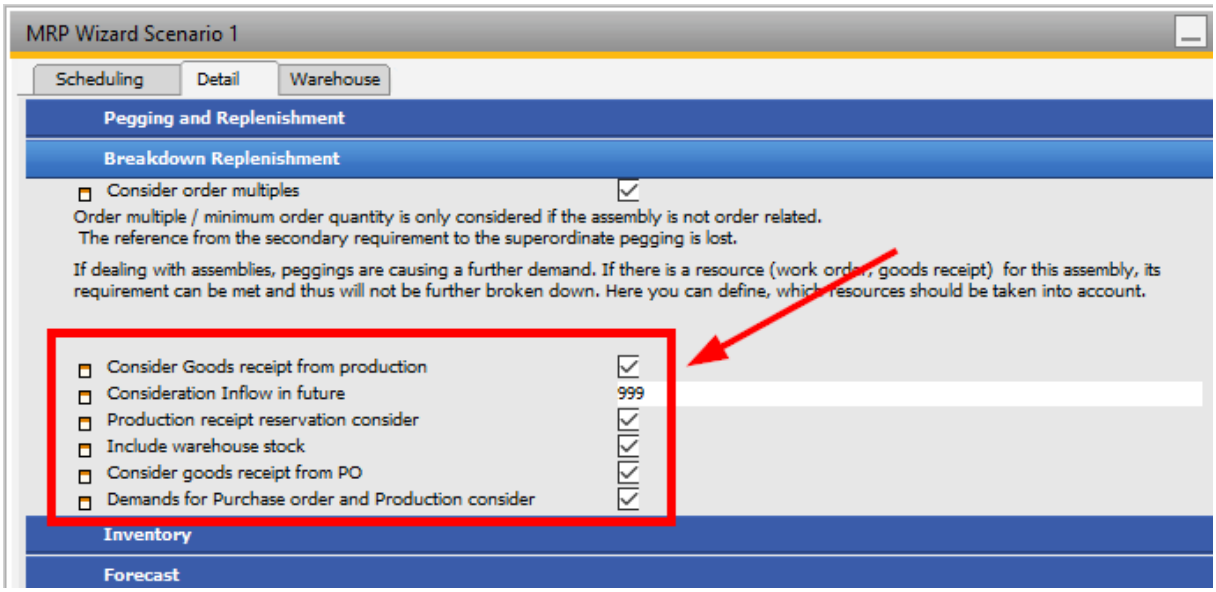
5. Forecasts (Default)
   Order by Plan Date ascending, Document Number

Beas first calculates all Minimum-Inventory requests, then the work order and so on. The system does not sort all requirements in one date line. The result can be a wrong order or temporary reservation for stock-related, semi-finished products. However, this should not generate problems, as this is a stock-related item.

Beas does not only consider stock. The following inflow is considered in order:

1. Remains from order multiples
2. Inventory
1. Production receipts, ascending by date of receipt
2. Purchase receipts, purchase and production requests, ascending by date of receipt

This behavior can be controlled with the respective options of an MRP calculation scenario:



© 2026 Boyum IT Solutions A/S

The reservation criteria above are used by Beas in "real time" during the MRP calculation and should not be confused with a the fixed reservation that a user can do by linking stock quantities to a sales order line or the lines on a Work order BoM.

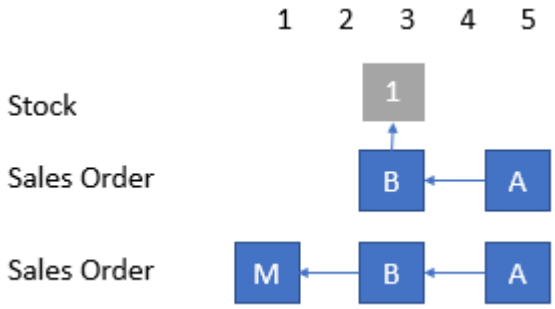
The temporary reservation determines whether sub-assemblies are broken down any further.
In case of working with fixed reservations, the reserved material is always firmly linked to a pegging and it may not be assigned to another pegging.

Example:

Item "A" has stock-related Sub-Assembly "B" with Material "M"
There are 2 sales orders for the same item A, same quantity with the same delivery date and we currently have only 1 Pcs in stock for assembly "B"

In this case, the first Sales (lowest Doc Number in SAP) order creates a requirement for "B" and the system covers this temporarily with stock.

For the second sales order no stock for "B" is available, and the system checks which material you need in order to produce "B". In this case, it creates a requirement for Material "M".



Final balance result of the MRP calculation:

Balance Item A: -2
Balance Item B: -1
Balance Item M: -1

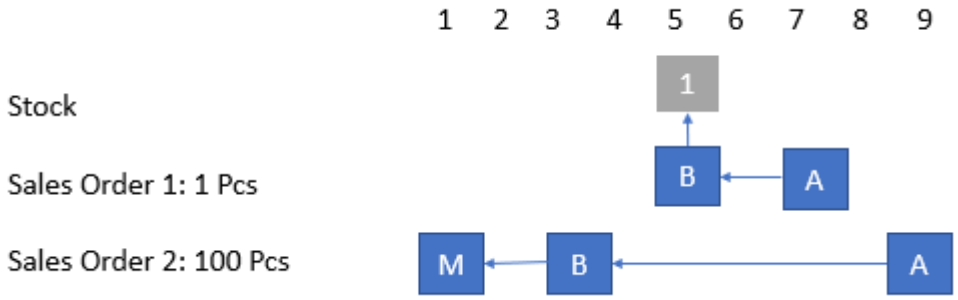
Here are some issues that might arise in reading the MRP calculation results in relation with the time-line of a stock related sub-assembly:

© 2026 Boyum IT Solutions A/S

Sales order 1: 1 Pcs, Delivery Date: 7th
Sales order 2: 100 Pcs, Delivery Date: 9th (later)
This produces different durations for the requirement of sub-assembly “B”, because you need more time for the production of Sales order “2”.

The system calculates Sales order 1 and covers the stock for stock-related assembly "B".

Then, the system calculates Sales order 2 and no stock is available. The system simulates the production for “B” and creates the Material requirement for Sales order 2.



In Balance List for B you see

Stock-related item "B"	Date	Issue	Balance
Sales order 2	3th	100	-99
Sales order 1	5th	1	-100

and for Material

Stock-related item "B"	Date	Issue	Balance
Sales order 1	1th	100	-100

This means that, when reading the MRP calculation results, you might see the requirements of an item at a lower level of a product structure in a different order than at calculation time.

© 2026 Boyum IT Solutions A/S

Note: If you use a precalculation inside a sales order, the production time for the order-related structure inside the precalculation is always the lead time of the item.

Example Sales order with Calculation:

Sales order 1 with Item "A" with calculation, 100 Pcs, Delivery Date: March 10th
Sales order 2 with Item "A" without calculation, 100 Pcs, Delivery date: March 9th
This produce a requirement for item B:
Sales order 1: March 10th (no calculated production time)
Sales order 2: March 5th
In MRP you see first Sales order 2 (sorted by requirement date), but the system calculate first Sales order 1 and use the existing stock for B for this sales order.

Note: Item B is stock-related. It is not possible to see order related result in stock-related items.

Note:

All production receipts are taken into consideration, regardless of the warehouse they are posted to. Warehouse settings defined in the **MRP calculation scenarios > Warehouse** are **not** considered here.

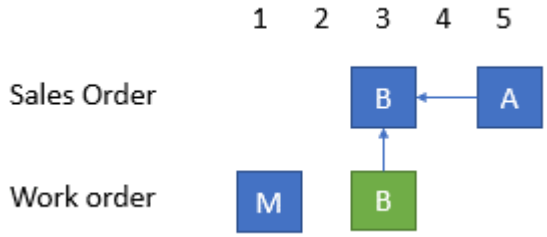
The temporary reservation calculated by MRP can be displayed after the calculation in **Order recommendation report > Origin**.

In this list, all temporary links are displayed in a structure view. ***See*** origin of requirement structure.

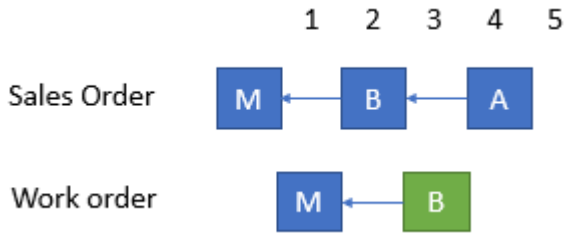
Consider inflow in future

If the date of delivery would be taken into consideration, the following problem could occur:
Assembly "A" contains assembly "B" with material M1.
Sales Order: assembly "A" on May 5th
Requirement of assembly "B" on May 3rd and material M1 on May 1st.
Work order is created for May 3rd, material is ordered for May 1st.
All requirements are covered.

© 2026 Boyum IT Solutions A/S



The customer asks for a delivery one day earlier, on May 4th:
If the requirement coverage calculation would consider the delivery date, the work order would no longer cover the requirement.
In effect, assembly "B" would be broken down, although the balance is 0. From the work order and the sales order a requirement would arise for material M1 - and thus it would be ordered twice.
To prevent this, the delivery date is not considered.



The delivery date is taken into account, but it may be in the future. This is set up in **Configuration wizard > Detail > Breakdown replenishment > "Consideration of future receipt".**
The delivery date is not taken into account - except for point 1 - since otherwise there would be a risk that the sub-material is dispatched twice. For this reason, **Configuration wizard > Detail > Breakdown replenishment > "Consideration of future receipt"** parameter is set to 99 days.

If "Consider inflow in future" is activated, the system covers the work order, which is 1 day in the future and you need in the example the Material "M" only.

Example:

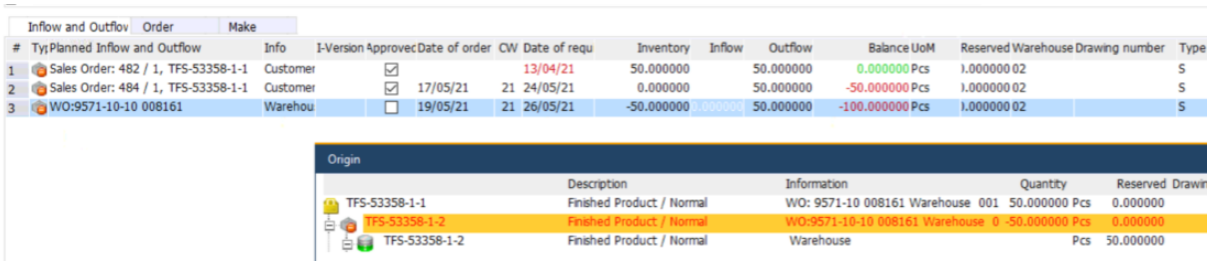
This item is a stock-related sub-assembly. The order in this list is by Date of requirement.
Before the system checks which material is needed for the assembly, it checks if stock is available for this assembly.
If yes, Beas reserves the stock for this assembly and you do not need to produce it. The system does not check the required material.

© 2026 Boyum IT Solutions A/S

The temporary reservation uses the defined priority: Minimum Stock, Work order, Sales order and so on.

What this means: Beas reserves the material for the work order (line 3) and **not for** the sales order (line 1 or line 2).

Right mouse click on line 3 - Origin you can see the defined reserved quantity.



Filter *Only shortage*

This filter shows all items that need to be ordered or produced, or for which the planned inflow is too late.

In this case, assembly “B” would be shown as shortage, as the balance for 4th May is negative.

The inflow to be used can be specified in **MRP wizard > Detail > Breakdown of resources**.

9.1.2.5 Scheduled MRP calculation

The calculation may be time consuming. For this reason, you can have the calculation performed automatically overnight.

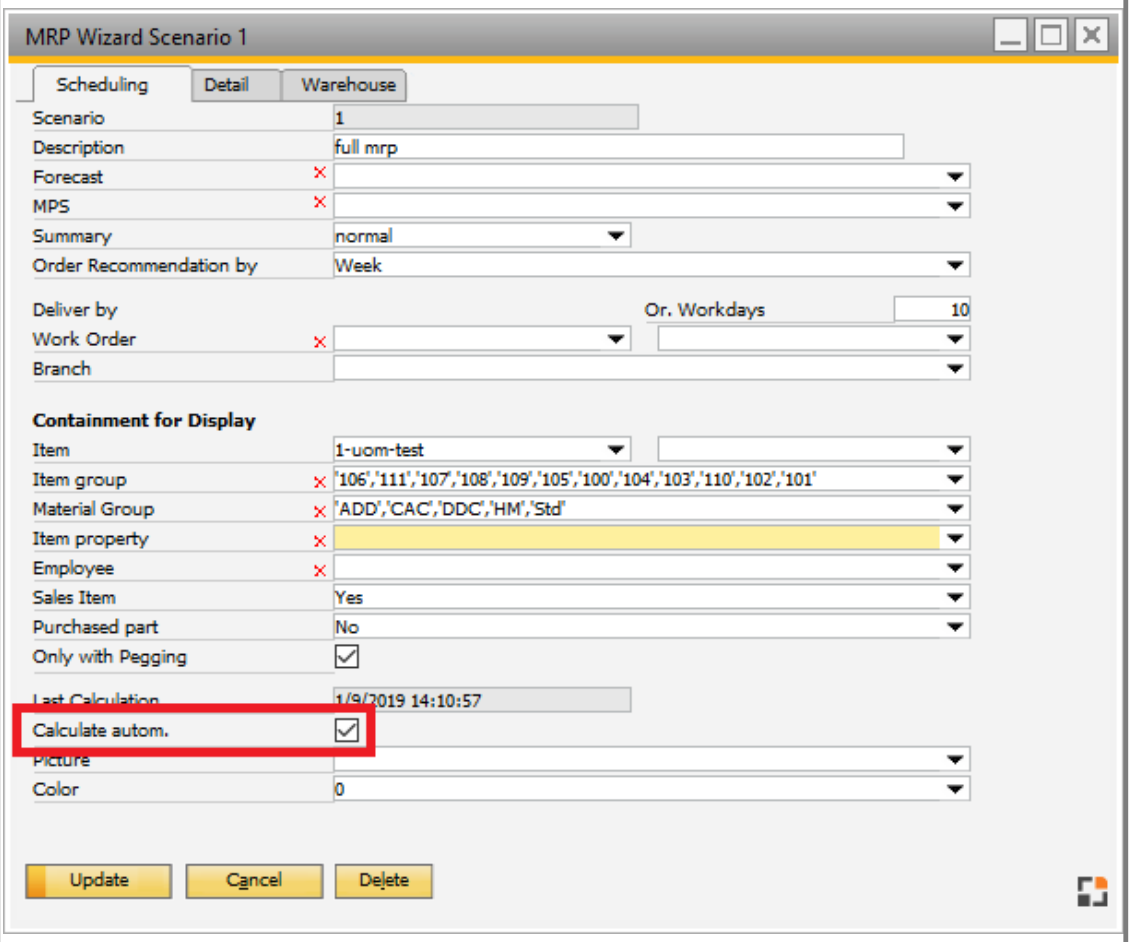
The following examples provide details on how to schedule MRP calculation in different ways:

Examples for planned MRP execution

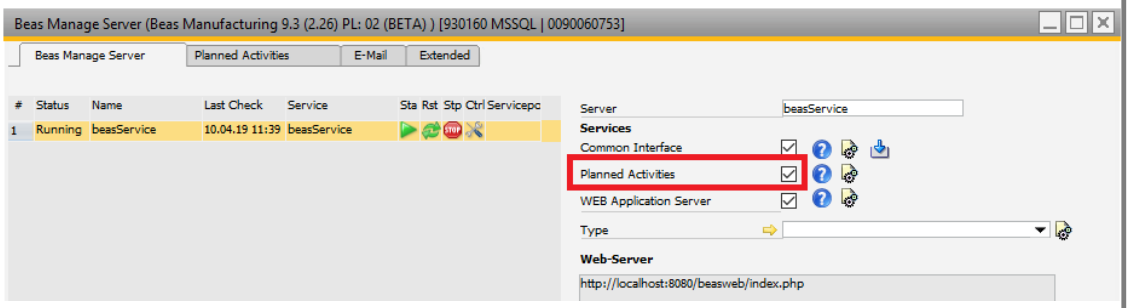
Example 1:

You can execute automatic MRP run over Beas service planned activity.
This depends on the "Automatic calculation" parameter in the MRP Scenario: With the execution of this event, ALL MRP runs that have the option "Automatic calculation" set are automatically executed.

© 2026 Boyum IT Solutions A/S



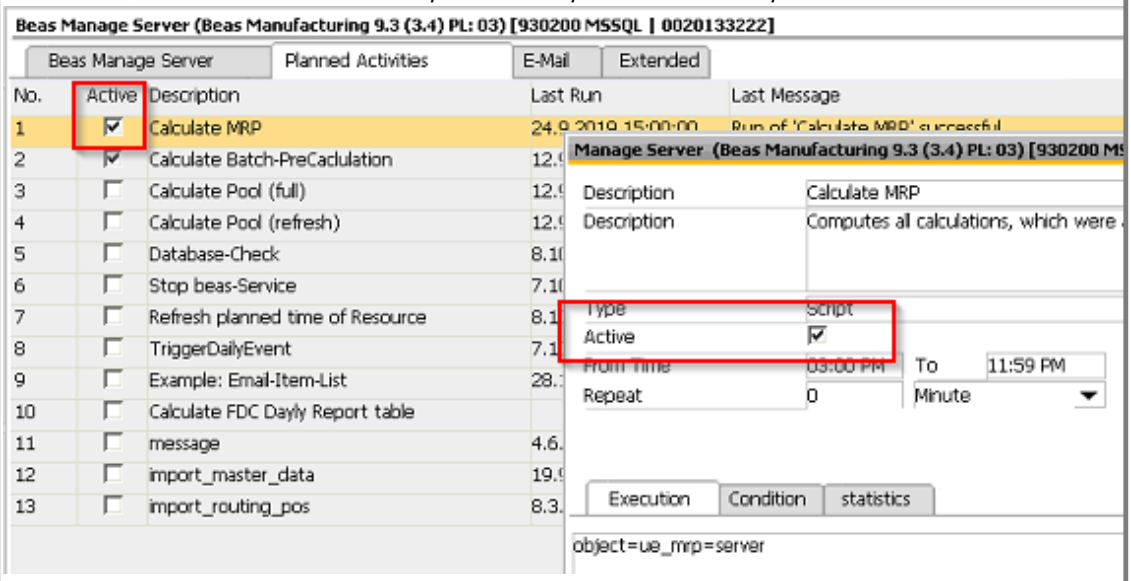
The "Planned Activities" check box is linked with the



By default the system defines the "Calculate MRP" task in the planned activity list.
The task must contain the script `object=ue_mrp=server` in the Execution tab. ***See*** image below.

© 2026 Boyum IT Solutions A/S

If the task does not exist (deleted by the user), you can manually define it:



Example 2:

Execute 1 specific MRP Scenario.

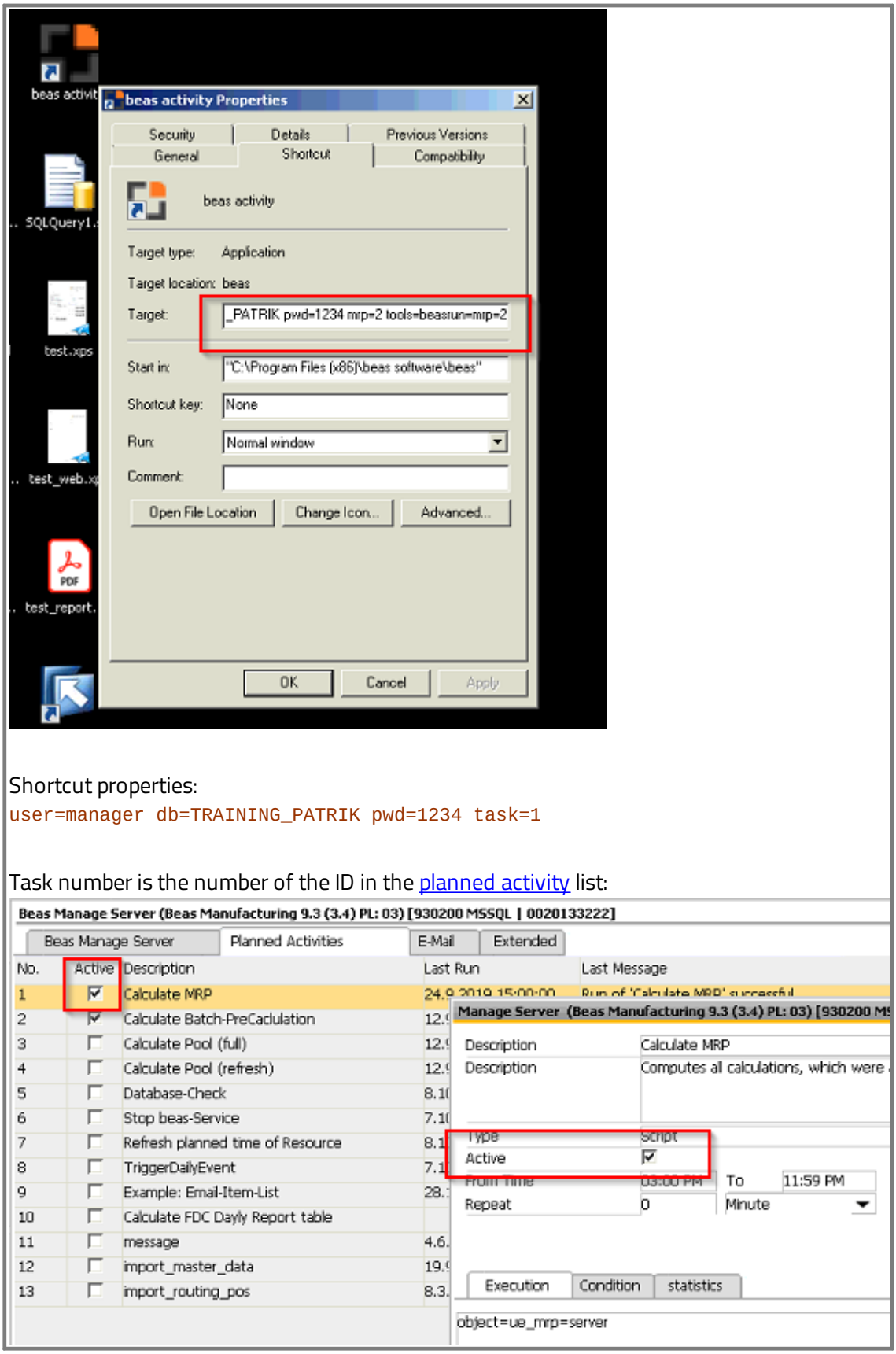
If you want to execute only one scenario, create a planned task with the following BeasScript, containing the number of the scenario:

```
object=ue_mrp=calc=1
```

Example 3:

You can execute MRP over shortcut properties to call a specific task e.g. Automatic calculation:

© 2026 Boyum IT Solutions A/S



Shortcut properties:

```
user=manager db=TRAINING_PATRIK pwd=1234 task=1
```

Task number is the number of the ID in the planned activity list:

© 2026 Boyum IT Solutions A/S

Example 4:

You can execute MRP by BeasScript for all scenarios marked as "Automatic calculation":

Script:

```
object=ue_mrp=server
```

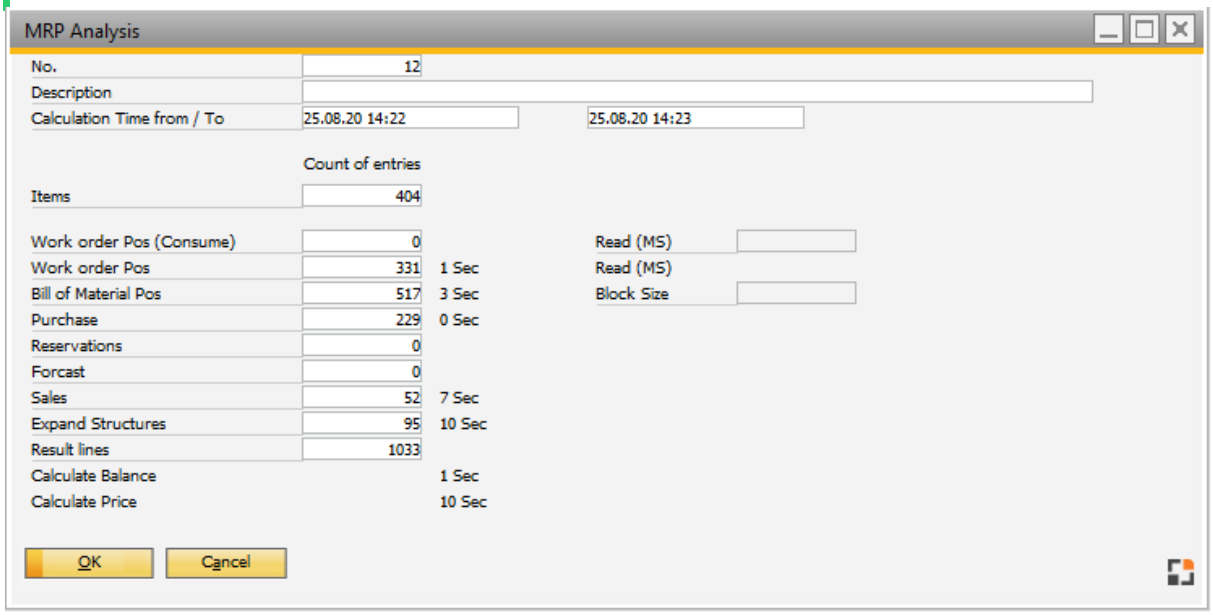
Execute 1 specific MRP Scenario: ***See*** Example 2 above.

See Manage Server

9.1.3 Analysis

The MRP Analysis displays information about the performance statistics of the calculation. It shows the number of calculated table records and the time it takes to run the calculation.

PATH: MRP > MRP Wizard > right-click a scenario.



mrp_ view_ analysis beas 9.3 PL 2 HF 2

If the MRP runs slowly, you can analyze the calculation with this tool. You can see count of records and time used for calculation and can start activities, which you help to make the running the MRP faster.

See

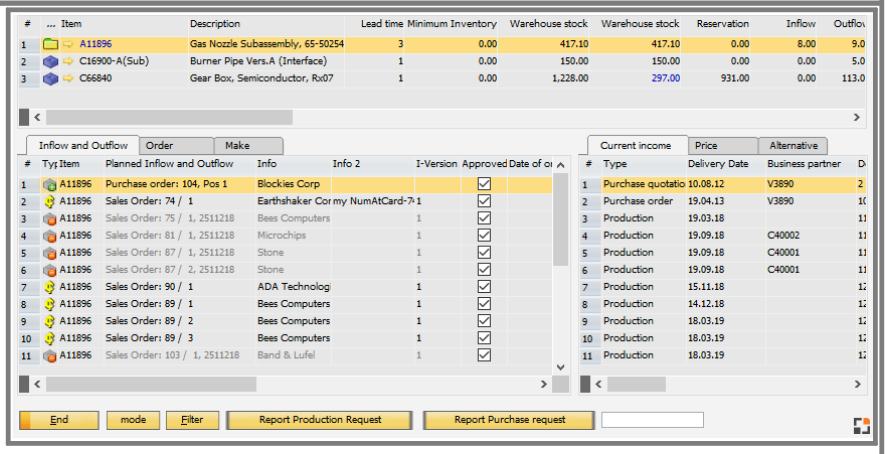
Performance recommendations

Calculation of order prosal date

© 2026 Boyum IT Solutions A/S

Field	Description
Calculation time from / to	Displays the start and end time of the last calculation process.
Items	Number of items included in the calculation.
Work order Pos (Consume)	Number of work order position entries for breakdown replenishment calculation (only the read process). *(beas 9.3 PL 3: always 0)*
Wor order Pos	Number of work order positions included in the calculation. **Pegging and Replenishment > Production > Goods receipt from production**
Bill of Material Pos	Number of Bill of material positions included in the calculation. **Pegging and Replenishment > Production > Goods issue for production** Block size: If you have to calculate more than 100 000 BoM positions in one scenario, it is reasonable to make the calculation in blocks. In this case, contact BoyumIT support.
Purchase	Number of purchase orders included in the calculation **Pegging and Replenishment > Purchase > Purchase order**
Reservations	Checked reservations in the calculation. **Breakdown > Replenishment > Consider order multiples and other in this area**
Forcast	Forecast and MPS included in the calculation. **Scheduling > Forecast / MPS**
Sales	Sales order, Pre Invoice, Recurring Sales Orders, Blanked agreement (...) **Pegging and Replenishment > Sales**
Expand Structures	Number of expanded assemblies included in the calculation. ***Example:*** Sales order with Assembly, Stock and Work order not existing. In this case, the system calculates the material requirements and duration time. This number displays the count of items and the time for the process.
Result lines	The number of result lines in the calculation. - The number reflects the count of items in the requirement area (inflow and outflow).

© 2026 Boyum IT Solutions A/S

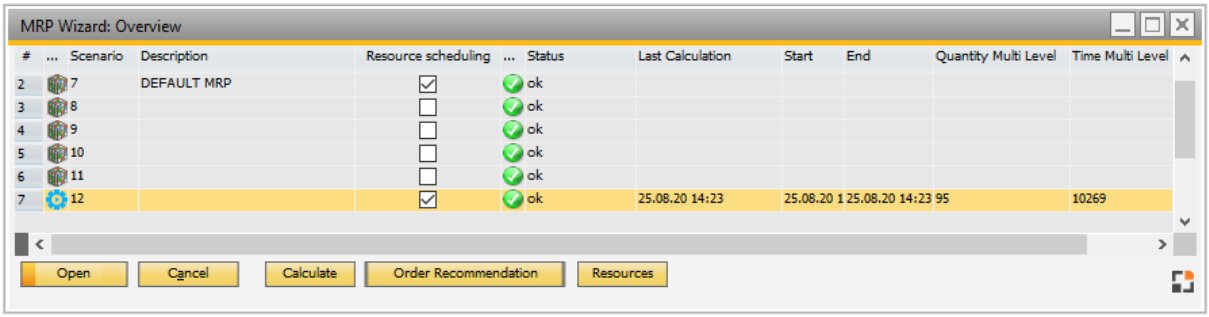
Field	Description
	
Calculate Balance	Time spent to calculate the balance in Inflow/Outflow area (also in per week/month and so on).
Calculate Price	Time spent to read prices from price list. If this takes too long, it can be disabled in the MRP scenario settings **MRP Scenario > Details tab > Calculation > Price Calculate**. ***See*** MRP Scenario

9.2 Order recommendation: overview

In the order recommendation overview all scenarios are displayed, can be edited or calculated.

The order recommendation can also be viewed in the Planning scenarios.

PATH: MRP > MRP Wizard



Window mrp_browse.psr

Column

Field	Description
Scenario	MRP planning number.

© 2026 Boyum IT Solutions A/S

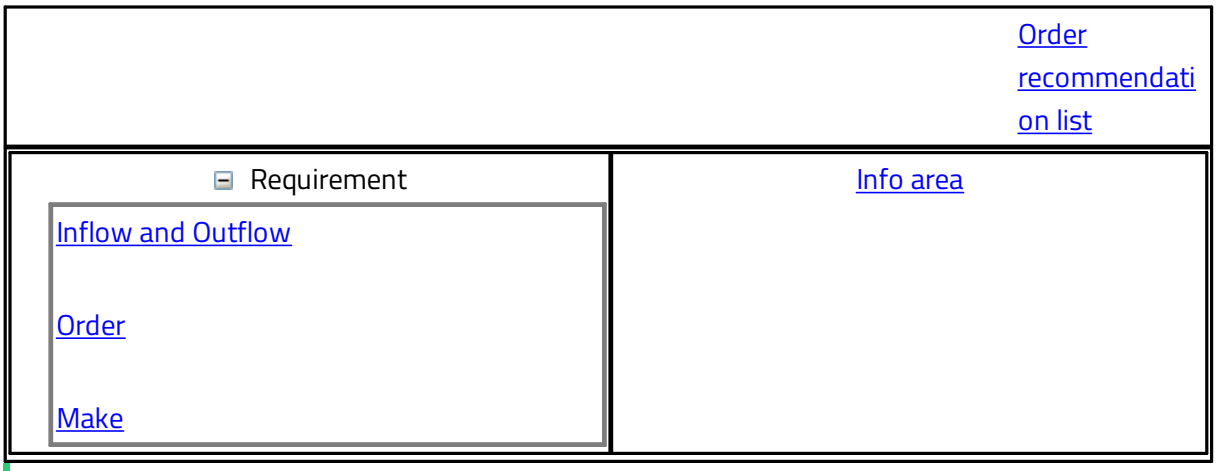
Description	Long description of the plan.
Last calculation	Date of the last calculation.
Status	Current status of the calculation. If it is currently calculated on an other station, as long as status is not OK, no order proposals can be displayed.
Resource scheduling	Shows, whether resource scheduling is enabled. Set in Resources.

Functions

Field	Description
Calculate	Execute the selected MRP scenario.
Order recommendation	Show computation results.
Resources	View planned resource utilization (MRP2). ***See*** Resource utilization MRP2.

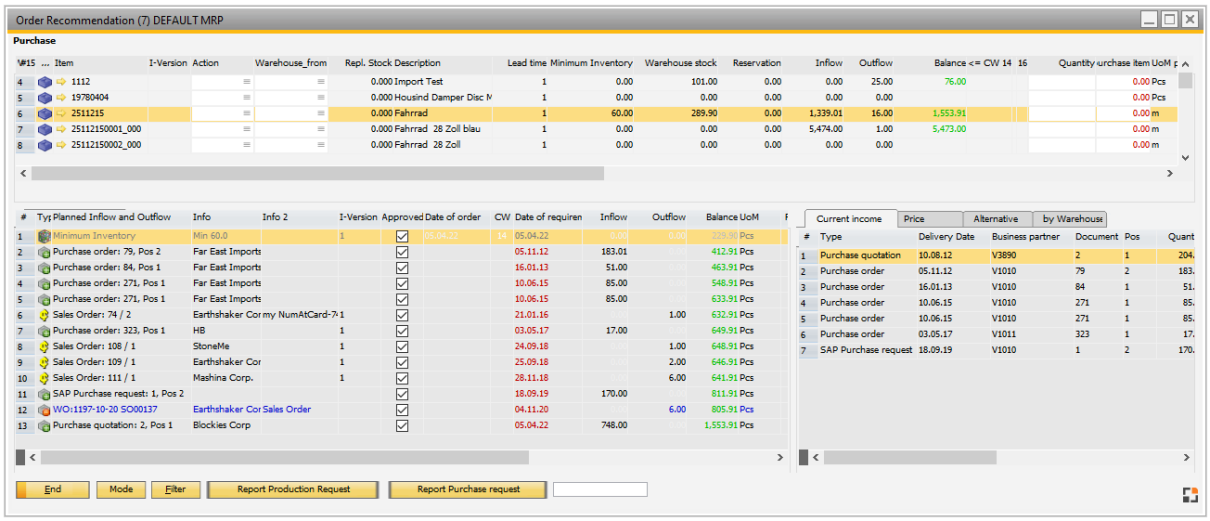
9.2.1 Order recommendation view

This is the central view of the MRP calculation which also enables to create purchase orders and work orders. There are three main areas:



PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.

© 2026 Boyum IT Solutions A/S



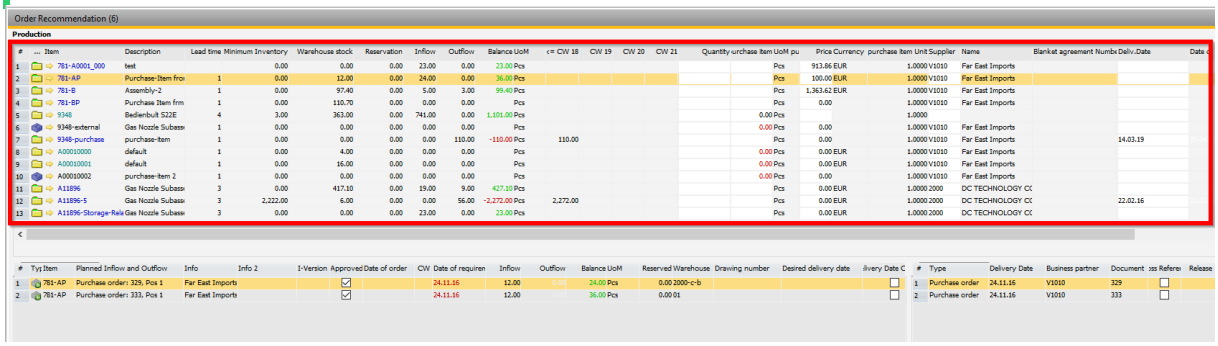
Window: mrp_view_masterrahmen

The buttons have the same function as the right-click – context menu. In the search field to the right of the buttons you can search for item number, item name, drawing number, supplier, material group, match code.

9.2.1.1 Order recommendation List

This window section of the Order recommendation displays the requirements on item level for planning purchase orders or production orders.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.



Window: mrp_view_masterrahmen

Templates and window settings are supported.

The window settings are saved in the currently selected template automatically if a template is active.

Note: Only the item list is affected (Order recommendation list).

See Youtube

© 2026 Boyum IT Solutions A/S

Only the flowing items are displayed:

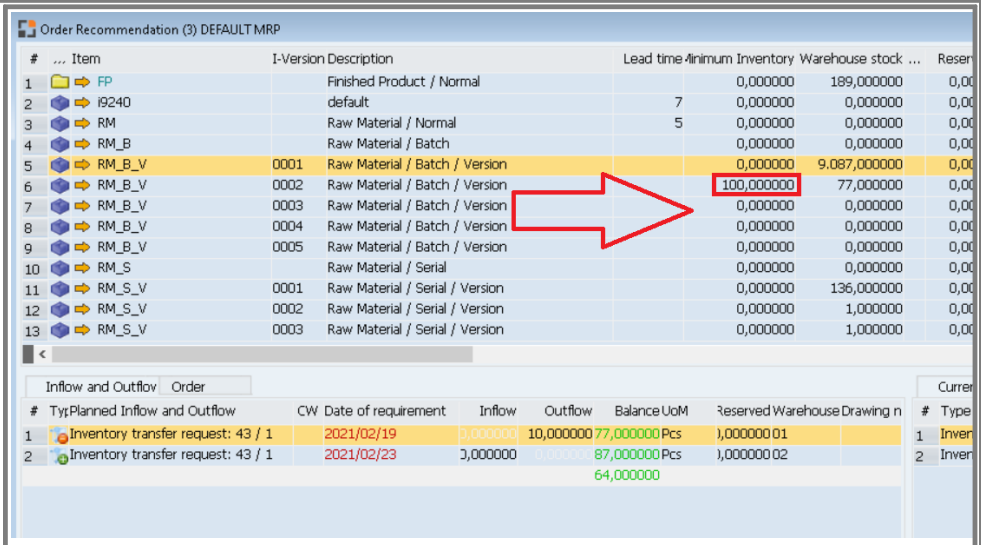
- Items according to filter settings in the planning scenario. ***See*** Planning.
- Items according to filter settings. ***See*** window filters.

Field descriptions

All values provided are true at the moment of computation.

Field	Description
Item	Item number.
I-Version	Item version number. MRP can calculate version-managed items based on the available stock of the item. Each Item version is treated as an individual item. ATTENTION: This only applies to batch/serial-managed items. **IMPORTANT:** if you have an item that is controlled by versions, it is calculated by each version. If the item is marked as version-controlled, but not managed by batches/serials, the item is calculated as one line. Documents* that have empty version field take the default version. Such documents are forecasts, sales orders, sales quotations, reverse invoices, stock transfer requests, Purchase orders, Purchase quotations, Beas PO requests. **Minimum stock for version:** If minimum stock is set, the calculation applies the minimum stock only for the version that was set as default. ***See*** image below.

© 2026 Boyum IT Solutions A/S

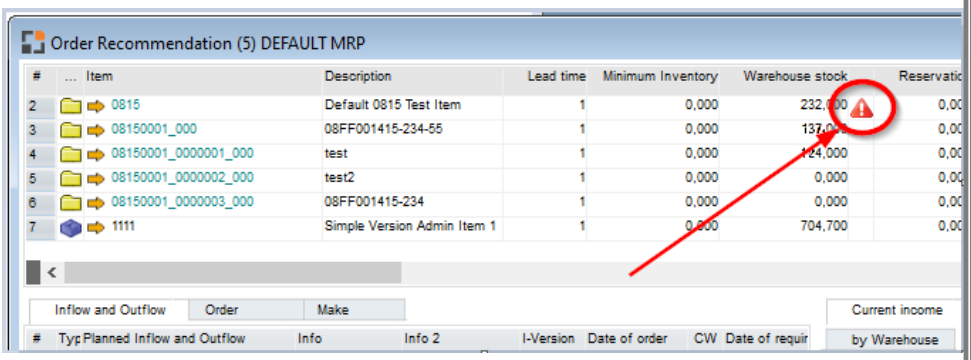


Note: Inventory information is not displayed by I-Version in the "By Warehouse" tab.

Description	Item description.
Lead time	Lead time or replenishment time according to the item master in working days.
Minimum inventory	Minimum item stock in warehouse units Required stock is displayed in case that it is higher than minimum stock. If Inventory management by warehouse was enabled, the sum of minimum stock per warehouse is displayed. Only the warehouses that have been selected in Planning scenario - Warehouse are considered.
.../ *Inventory ALERT	Indicate a stock overflow on a warehouse The warning icon works only if - Item is set to "Inventory by warehouse" - MRP setting "Notify of minimum inventory" is activated - Warehouse Stock > Minimum Inventory **What the system checks** Activate this parameter to enable a warning icon for items where the Total minimum inventory status is positive, but at least one of the warehouses may require a stock transfer (Warehouse minimum inventory status is negative).

© 2026 Boyum IT Solutions A/S

This notification corresponds to the situation of the warehouses at the time of MRP calculation and not necessarily to the current status of the warehouses.



Example:

Warehouse 01: Min. Inventory = 100, Current Inventory = 0

Warehouse 02: Min. Inventory = 0, Current Inventory = 200

Warehouse 03: Min. Inventory = 500, Current Inventory = 0

Total Min. Inventory = 600, Total Inventory = 200

In this case Balance is > 0,

The inventory in one warehouse is not enough to cover the Minimum Inventory of this warehouse and the Total Min. Inventory > Total Inventory

- the system shows the requirement and the actual item must be checked.
- the system displays no alert.

Example:

Warehouse 01: Min. Inventory = 100, Current Stock = 0

Warehouse 02: Min. Inventory = 0, Current Stock = 200

Warehouse 03: Min. Inventory = 0, Current Stock = 0

Total Min. Inventory = 100, Total Stock = 200

In this case Balance is > 0, but the inventory in one warehouse is not enough to cover the Minimum Inventory of this warehouse and Total Min. Inventory < Total Inventory

- the system does not show requirement
- the system displays the alert.

I-Versions

When working with I-Versions (Setting "Consider I-Version" is activated),

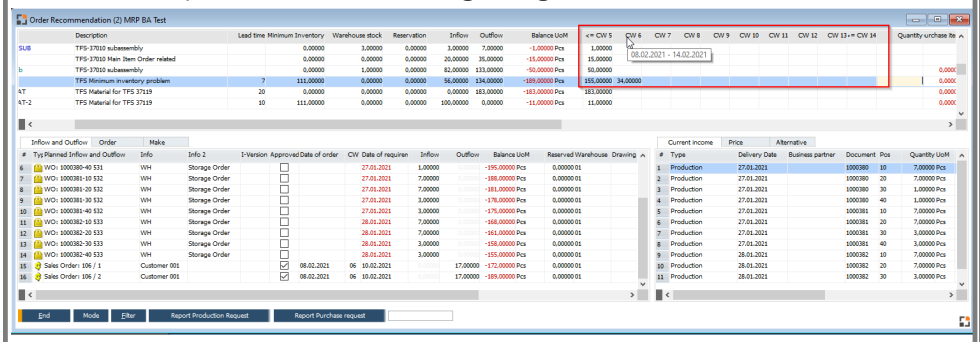
© 2026 Boyum IT Solutions A/S

	minimum inventory by warehouse is indicated only in the active version. However, inventory information in the by Warehouse tab is not considered per I-Version. This means that it considers the complete inventory of the Item. ***See*** MRP Order recommendation by Warehouse. ***See*** MRP Scenario settings
Required	Required stock in warehouse units If Inventory management by warehouse was enabled, the sum of required stock per warehouse is displayed. Only the warehouses which have been selected in Planning scenario - Warehouse are considered.
Warehouse stock	Warehouse stock of the item Displays current item stock at the moment of calculation. If Inventory management by warehouse was enabled, the sum of required stock is displayed. Only the warehouses that have been selected in Planning scenario - Warehouse are considered. If you disable in Planning scenario - Details - Inventory - Blocked batches are available as stock, only free or unavailable batches are considered, but blocked batches are not. **WMS Integration:** If the **MRP Wizard > Detail > Inventory > Filter WMS Quality Status** parameter is set, the system will display the available stock considering the selected quality statuses.
Warehouse stock available	Available stock Displays the warehouse stock minus the reserved goods. ***See*** Warehouse stock. **Note**: If blocked batches are reserved and not considered, this may lead to incorrect values. Because in this case, blocked batches will be subtracted from the displayed stock.
Inflow	Sum of all planned inflow in Inventory UoM (according to current filter settings), excluding order related quantities (e.g. bill of materials with order related item) and pegged requirements that were covered by reservations.

© 2026 Boyum IT Solutions A/S

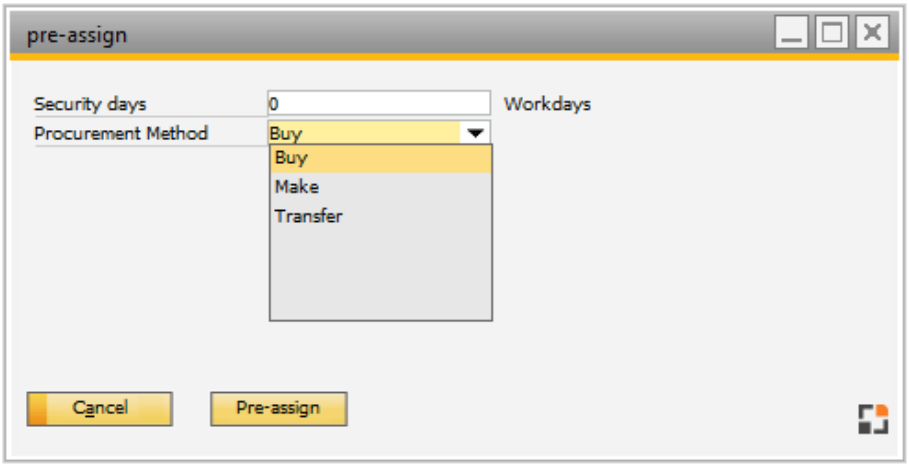
Outflow	Sum of all planned issues in Inventory UoM (according to current filter settings) plus sum of all planned inflow in Inventory UoM (according to current filter settings), excluding order-related quantities (e.g. bill of materials with order related item).
Balance	Balance of stock level-minimum stock-planned issue+planned inflow in the period of computation displayed in Inventory UoM.
Reservation	Total reserved quantity. **WMS Integration:** From Beas Manufacturing 2024.04 on, this field considers WMS Batch/LUID and Detail level locks. **Important:** The "Balance: Reservation Consider" parameter must be activated for this.
EH	Inventory UoM.
Warehouse	Default warehouse of the item Note: If you create a work order, the system uses the Production warehouse related to all Warehouse rules and Configuration settings. It does not use the Default warehouse.
Action	Action to be taken by MRP. In Massive mode, this column is automatically filled with the selected procurement method: - Buy - Make - Transfer: Transfer between Replenishment warehouse and the current warehouse. Note: When the quantity in each line is entered manually (manual mode), the system only fills this field with values "Buy" or "Make". You must select "Transfer" manually.
Warehouse from	Replenishment warehouse. Select the supplier warehouse to transfer items from - mandatory field only for "Transfer" action.
Repl. Stock	Replenishment stock quantity in Inventory UoM. The sum indicated in this columns reflects all the stock in different Replenishment warehouses.
Direct item	The column shows direct (check box active) and indirect items (check box inactive) Direct item: the material is directly related to the filter. Indirect item: the material is indirectly related to the filter. You can make the column visible in Window settings.

© 2026 Boyum IT Solutions A/S

Order recommendation by: CW x Month x or user defined	Order recommendation for next calendar weeks, months or other time units, that can be defined manually. Detailed information PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button First slot (e.g. <= CW5) : week at the moment of the MRP run. second to second to last slot: slots of defined duration (e.g. one week) last slot: all requirements from the beginning of the last slot until the far future.  *Window maintenance_ order_ browse.psr* Depending on the defined time period for the calculation and the type of time period representation, the system calculates the count of columns. 2–18 periods are displayed then. In Planning Scenario > Scheduling you can define other time units, for example monthly, bi-weekly or in customized time unit definitions. **Attention! Order proposal date is not the requirement date!** An order proposal corresponds to the requirement date minus the average delivery time, lead time and some buffer days. More Information In the order recommendation list it is possible to determine the quantity to be ordered automatically, even if the last possible date has not yet been reached. Select the number of buffer days, as well as the desired procurement method. Then, the test starts determining what quantity should be ordered, taking into account the lead time + buffer days (working days):

© 2026 Boyum IT Solutions A/S

PATH: MRP > MRP Wizard/Order recommendations > Select a scenario > **Order recommendation** button > **mode** button > **Pre-assign** button.



WIndow mrp_strukturansicht_vorbelegen.psr

Calculation

The **requirement date** (list of peggings) is less or equal to the current date + lead time + buffer days given in working days. The sum of the affected peggings, taking into account the already planned receipts in this period, is the quantity to be ordered or to be produced. The calculated **delivery date** is, at earliest, the current day (today) + replenishment lead time + buffer days (work days). The determined date is at least one day after current date + replenishment lead time. If the determined day is not a working day, the next working day is identified and proposed. The determined values are entered in the order recommendation item list (upper part) in columns "quantity" and "requirement date".

Click the **Create request** button to complete the process.

Note: This pre-allocation function considers only storage-related assemblies.

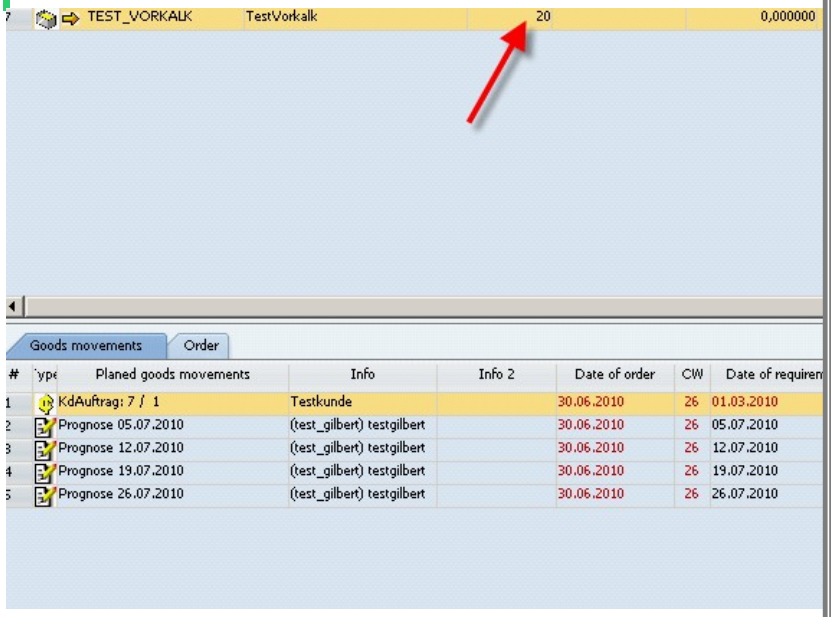
Attention: Supplier and price need to be entered prior to the creation of purchase documents. Items without this information are ignored.

Examples for the calculation of the order proposal date with help of the pre-allocation function:

© 2026 Boyum IT Solutions A/S

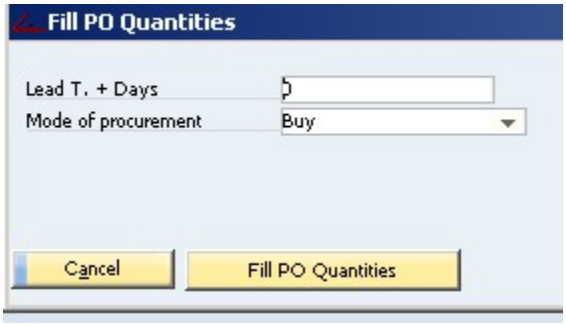
1. Lead time from the item master appears in the calculation is 20 days.

   PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button

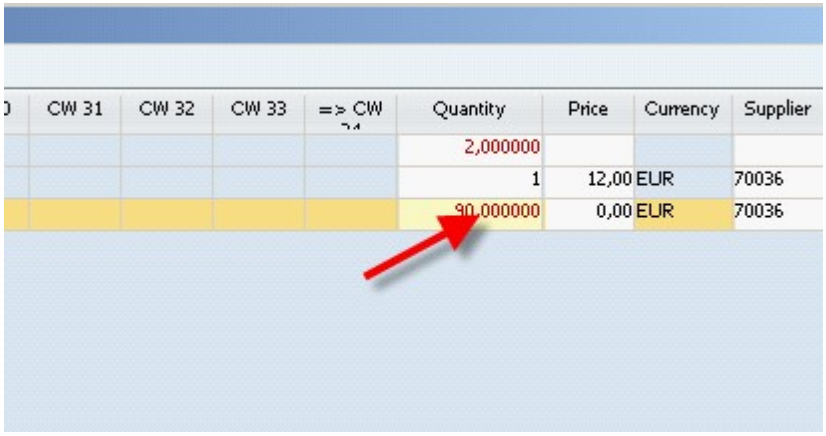


Window: mrp_view_masterrahmen

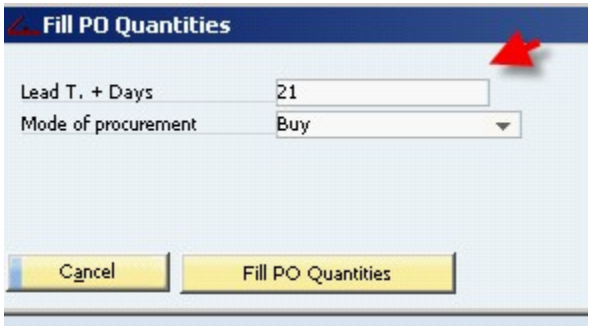
2. Fill PO quantities. Additional days can be entered.

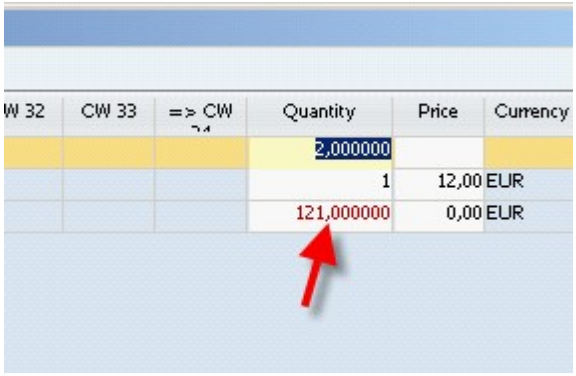


© 2026 Boyum IT Solutions A/S



Period = Current day + Lead time (item master) + work days
End of the period = 24.07.2010
The last requirement of 31 pieces from 26.07.2010 is outside the period.





Period = Current day + Lead time (item master) + work days
End of the period = 23.08.2010
The last requirement of 31 pieces from 26.07.2010 is now inside the period.

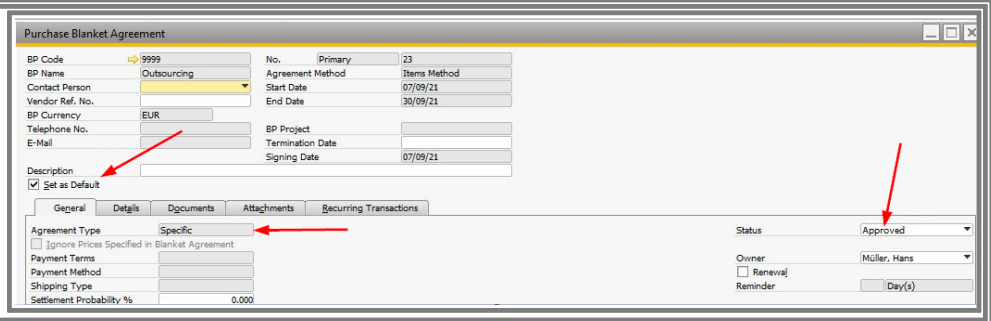
© 2026 Boyum IT Solutions A/S

	If by right-clicking on a calendar week the purchase order quantity (field "quantity“) is pre-allocated, the delivery date is also pre-allocated according to the selected calendar week. It is also possible to enter the desired delivery date of the purchase order to be created. **Order multiples** Order multiples (item master) is taken into account. ***Example***: Order multiple 10 Purchase order recommendation CW of 10: 6 pcs, CW 11: 4 Pcs Displayed: CW 10: 10 Pcs, CW 11: 0 Pcs It is always rounded up to the next order multiple and the subsequent purchase is covered by it. Double requests are avoided. **Order possibility** **Collective purchase request/collective production request**: Right-click on the time heading (CW x), which uses the order quantities for CW x. The requirements are entered in the quantity column. Only entries with corresponding requirements are displayed. For purchase orders the price and the supplier must be entered, for production request only the quantity. Then, the process can be started via "production request" or "order request". **Take over single quantity**: If the quantity is to be used for one item, right-click in the CW x column on the corresponding item and choose "order request" or "production request". This is not possible in collective order mode. For activating the detailed view click on the **mode** button. Thereafter, data can be completed and the process can be started.
Quantity	Quantity to be purchased / produced in Inventory UoM (Column header "quantity"). **Color codes:** GRAY: For "Make" items RED: For "Buy" items
Quantity purchasin	Quantity to be purchased / produced in purchasing units (Column header "quantity").

© 2026 Boyum IT Solutions A/S

g item	**Color codes:** GRAY: For "Make" items RED: For "Buy" items
Purchasing UoM	Purchasing UoM according to item master data.
Factor Purchase UoM	Factor Purchasing UoM to Inventory UoM according to item master data.
Price	Purchase price, editable Beas reads the price automatically if you change the date, supplier or quantity. based on: - Purchase blanket agreement - special prices - price list (linked to the supplier) - standard price list Beas uses the same concept as SAP Business One – Purchase order If there are no supplier price lists and no special price lists, the last purchase price is used. Price is displayed in purchasing UoM. Price is for "today" (not delivery date) **Note for blanket agreements** Blanket Agreement is only checked if: - Agreement Type = "Specific" - Status is Approved - Today inside Start- and End Date - "Set as Default" is activated (NOTE: In SAP 10.0 this field is not available any more)

© 2026 Boyum IT Solutions A/S

	
Currency	Currency for purchase. The system use the Currency from the defined price list, Blanked agreement and so on.
Supplier	Default supplier according to item master data (can be changed). Choose Supplier in dropdown list : Option is to be defined in the Configuration Wizard: ***See***: Configuration wizard - Materials management - MRP wizard - view - supplier selection
Name	Supplier name.
Blanked Agreement Number	Purchase Agreement Number for the current defined supplier and Item The system select the correct Purchase Agreement number automatically for current supplier, quantity and delivery date.
Blanked Agreement ID	Internal Purchase Agreement Number
Gross price	If a gross price list for the chosen supplier was stored, all price quotations are then carried out for gross prices (cannot be changed). If an order is prepared, the price is submitted as a gross price.
Deliv. date	Delivery date for the purchase order to be created. It is pre-allocated with the first outflow (e.g. requirement date from customer order or work order). The balance (inventory, other inflow) is not considered. If the first planned outflow is in the past, this date will be displayed in this field.
Date of order	Planned inflow of first purchase order. **Color codes:** RED: Date is today or before today. GRAY: Date is later than today.
First demand	First planned issue (delivery date of customer order, forecast). **Color codes:**

© 2026 Boyum IT Solutions A/S

	RED: Date is today or before today. GRAY: Date is later than today.
Sales Uom	Sales UoM.
Sales factor	Factor Inventory UoM to sales UoM.
MRP	Scheduling ID according to item master data.
Order related	Active for order related items.
Procurement Method	Purchase item or production item.
Produce	Active for production items.
Buy	Active for purchase items.
Sales item	Active for sales items.
Purchase item	Active for purchase items.
free	Clearance attribute according to item master.
free from	Clearance attribute "from" according to item master.
free to	Clearance attribute "to" according to item master.
blocked	Attribute blocked according to item master.
blocked from	Attribute blocked "from" according to item master.
blocked to	Attribute blocked "to" according to item master.
Item account	Default account as per item master. Note: The account is only correct if the account was set up per item.
raw material	Raw material according to item master.
Order multiple	Order multiple according to **item master data > Planning Data tab**.
Minimum order amount	Minimum order amount according to **item master data > Planning Data tab**.

© 2026 Boyum IT Solutions A/S

Maximum amount	Minimum order amount according to item master.
Goods issue for production	Total of planned production outflow.
Goods receipt from production	Total of planned production on hand.
Ordered	Total of incoming purchase orders.
Sales order	Total Sales order outflow.
Quantity for chosen PO	Total items for PO as selected in **Planning > Detail > Filter**.
Release for production	Release ID as per item master.
Drawing number	Drawing number according to item master.
DIN	DIN - according to item master.
Match code	Match code - according to item master.
Priority	Priority of the item If the demand for this item is caused by another item (assembly), which has a higher priority, the priority of the originator is displayed. It can be set in the Configuration Wizard, whether a high or a low number has higher priority. The priority is set in the **Item master data > Planning data > Priorities.** ***Also see:*** Configuration wizard - Planning data - Priority Sales order - Priority

© 2026 Boyum IT Solutions A/S

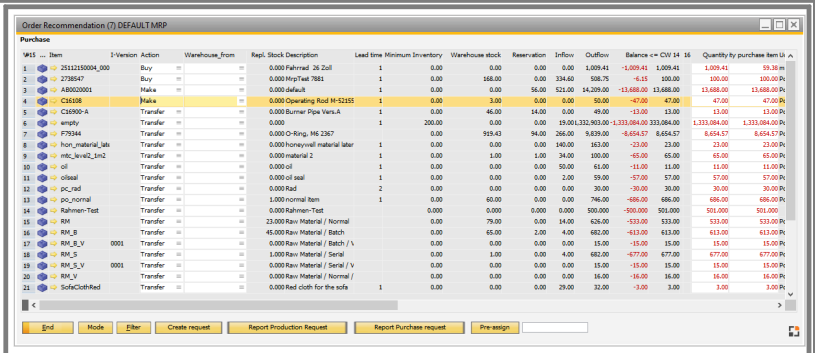
Material group	Material group according to item master.
UDF 1-3	Freely definable field (Only available via customization). Any change made is saved immediately. You can rename the fields with Beasscript using the „tabredraw lmaster“ event. Entered values are saved and stay available as long the order recommendation is not recomputed.
Stock underrun PO	Stock underrun for the PO selected in **Planning > Detail > Filter**.
Remark	Free text. Note: The content is not saved and stays available until the list is redrawn. This field may be used for customizations, as well as fields "UDF1 ... UDF3".
Project	Not supported.
First inflow	First inflow by purchase (P) or production order (W).

Right-click functions

ATTENTION: To create a Purchase request or a Production request, go to perform the command in the "Action" column in the top list for a single item.

Field	Description
Cancel	Closes order recommendation window
Mode	Change between Single and Massive mode You can manage requirements to plan production, purchase or inventory transfer documents by switching between two **modes**: **Single mode** (default view of the Order recommendation window) **Massive mode** By switching to Massive mode, you can work on item level for planning purchase requests, production requests or Inventory transfer requests. Click the mode button, and the complete bottom window area disappears to perform functions for all the lines:

© 2026 Boyum IT Solutions A/S

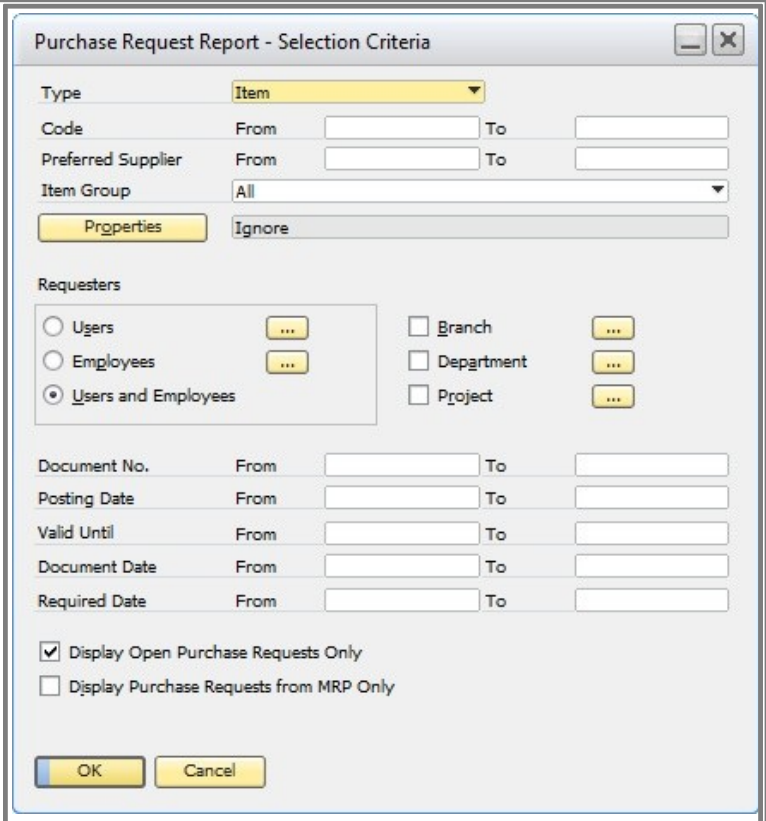


Button	Function
Create request	Generate documents for each line with one click according to what was defined in the Configuration wizard: - Buy actions: Purchase request - Make actions: Production request - Transfer actions: Inventory transfer request. Note: For Transfer actions you must define a Replenishment warehouse in the corresponding field of the Order recommendation list.
Pre-Assign	Opens a new window to calculate what quantities need to be produced or purchased for the next X days. Use this to make material requirement planning for a defined upcoming period.

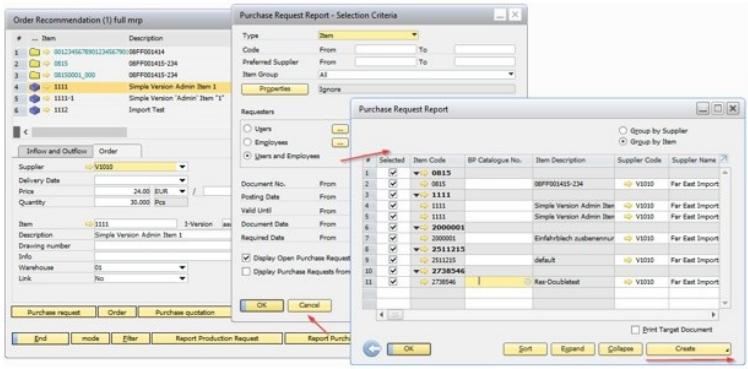
© 2026 Boyum IT Solutions A/S

	Button / **Function** ***See*** functionality description in Pre-Assign
Filter	Settings for fixed filters
Report production requests	Opens list of Production requests
Report purchase requests	Opens list of Purchase requests The button is only visible if the user has the authorization to create a purchase request. It uses a Beas or SAP variant for purchase request. ***See*** Configuration wizard – purchase request SAP Variant Opens the SAP Purchase request report window This is not possible if you start Beas in standalone mode. PATH: Purchasing - A/P > Purchasing Reports > Purchase Request Report

© 2026 Boyum IT Solutions A/S



From this window you can create a Purchase Order and Purchase Quotation from the Purchase request:

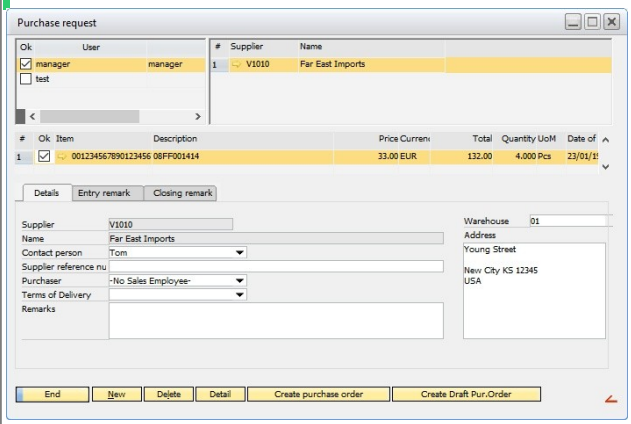


beas 9.3 PL 2

Beas Variant:

Opens the Beas Purchase request window
From this window you can manage all purchase requests, create purchase orders, purchase quotations or draft documents.

© 2026 Boyum IT Solutions A/S

	PATH: MRP > Purchase request  For more information ***see*** Beas purchase request.
Pre-assign	Only visible after switching to Massive mode with the **mode** button (***see*** above).

Also see:

Order recommendation overview

Fixed filters

Context menu and filters

Planning

9.2.1.1.1 Context menu and filters

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.

Right- click on column title: Various functions are available, depending on the column data. The sorting function is available in all columns.

Right-click on column supplier: Sort by supplier number (items without supplier number are filtered out), requirement date, order date and first demand into ascending or descending sorting.

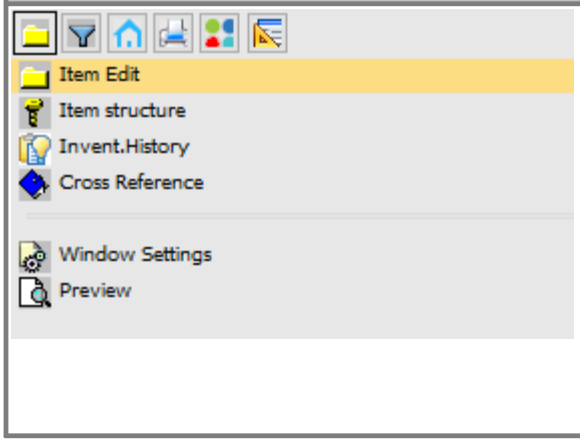
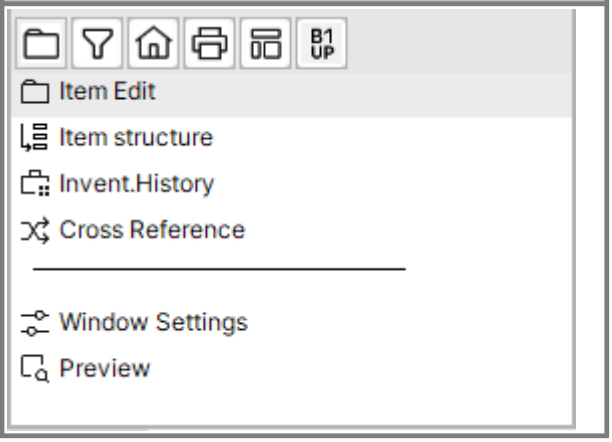
Right-click on column CW: Apply quantities for purchase order, production order (pre-allocate) or transfer request.

Note: By selecting "Inventory transfer for:", the window switches to Massive mode and only displays "Buy" and "Transfer" items.

Right-click menu on an item row

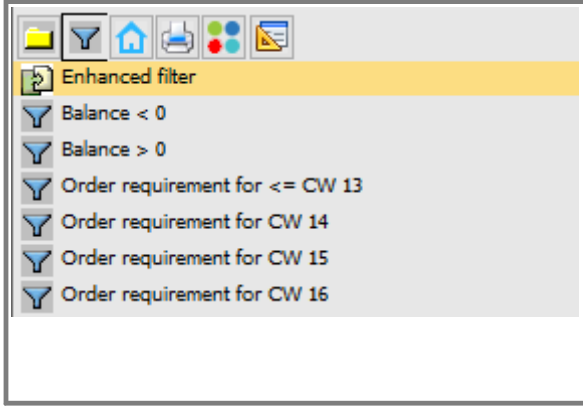
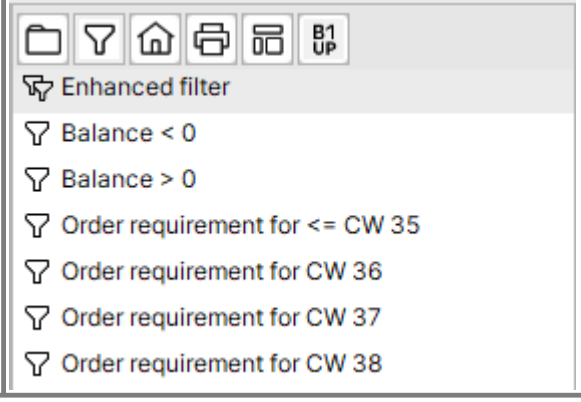
© 2026 Boyum IT Solutions A/S

Folder symbol

Traditional style	Boyum Style
	

Field	Description
Edit item	Open item master.
Item structure	Open item structure.
Inventory history	Open Inventory history of the item.
Cross reference	Open Item cross reference.
Window settings	Settings, which columns are displayed.
Preview	Preview for print.

Filter symbol

Traditional style	Boyum Style
	

Field	Description

© 2026 Boyum IT Solutions A/S

Enhanced filter	Open definition window for enhanced filter
Balance <0	Show only entries with balance <0
Balance >0	Show only entries with balance >0
Demand for CW ...	Show order requirements for selected CW

General, export and template menu options are generic for all Beas windows and are described in Right-click menu.

Right-click menu in the inflow/outflow area

Folder symbol

Field	Meaning
Work order for	Change to the Produce tan and open the window to create a production request or work order.
Customer order for	Open SAP Business One customer order.
Allocation	Over a work order, open the allocation windows for the selected item.
Stock Transfer	Open the manual stock transfer windows.
Reservation for	A hard reservation is made for the requirement of the customer order.
Total requirement	Set a filter in the item list (new tab).
Calculation update	Update the upper item list. Peggings and replenishments are read again without breakdown of peggings. **IMPORTANT:** ***See*** detailed Configuration wizard setting description. **Limitations:** 1. Summary values cannot be recalculated. 2. If changes affect other items, these are not recalculated. 3. Peggings, arising from other peggings, (e.g. breakdown of customer orders), are not updated.
Preview	Preview for print.
Window settings	Settings of column visibility.

Filters

© 2026 Boyum IT Solutions A/S

You can filter the order recommendation list by different criteria. Fixed or temporary filters can be set up.

Method	Meaning
Filter button	Using the Filter button a fixed filter can be set in advance, which can be stored per user and scenario. ***See*** Fixed Filters .
Right-click on the column header	Filter suggestions are provided depending on the column data. ***For example***: Right-click on lead time opens the following filter options: Without lead time, lead time greater than 0, lead time greater input field, lead-time equal to the input field. Sorting options are also available.
Right-click on pegging	By clicking on a pegging, (e.g. a line in the customer order in the lower area), this can be set as filter criteria: all items and dependent items, which are needed for this line of the customer order.

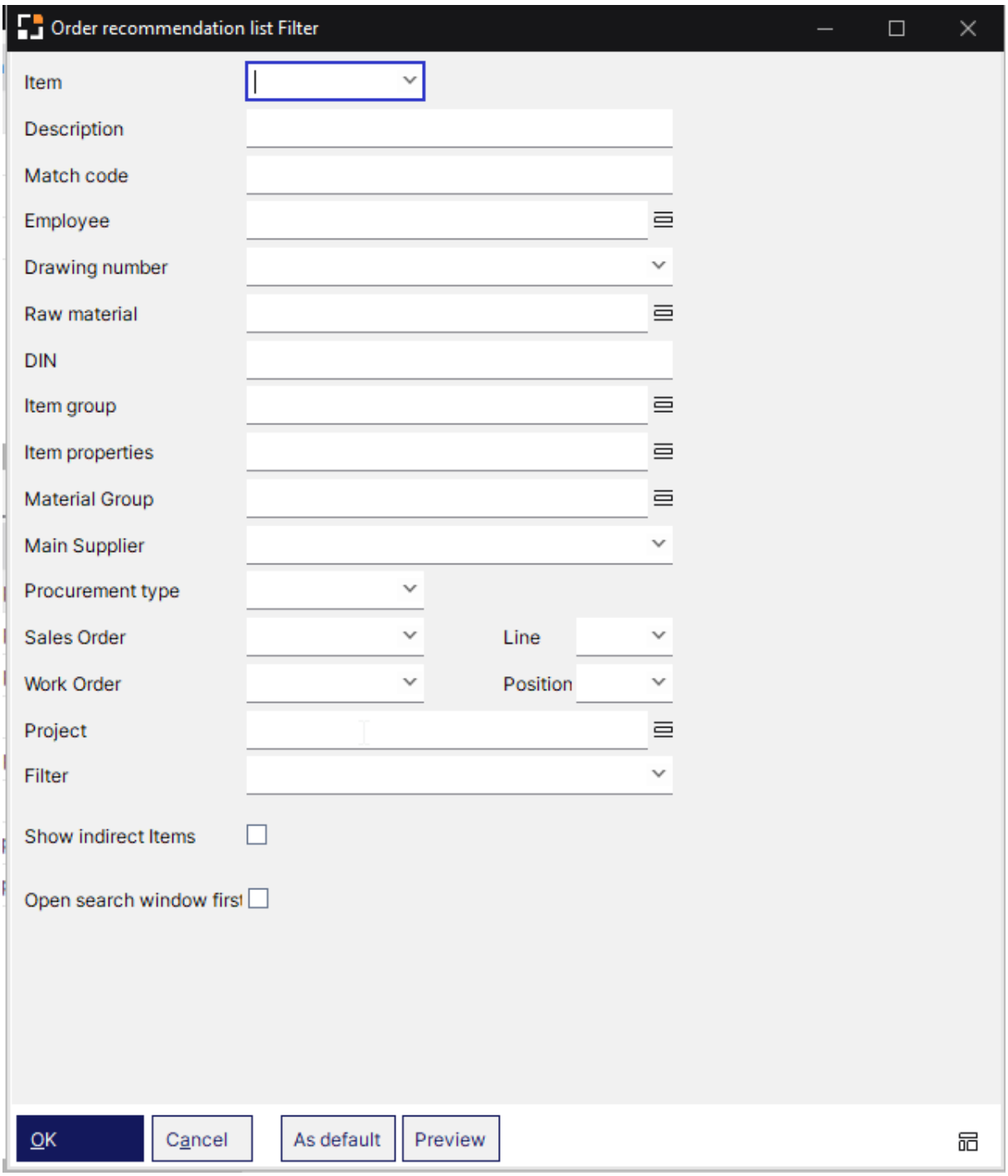
9.2.1.1.2 Fixed filters

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.

Via **Order recommendation > Filter > Function** a fixed filter can be stored, and saved per user and scenario.

Call up: use the **Filter** button in the order recommendation window.

© 2026 Boyum IT Solutions A/S



window: mrp_view_search

Note:

The upper item list is filtered. The filter has no influence on balance calculation or the display of peggings or planned inflow.

It is possible to create a filter per template.

© 2026 Boyum IT Solutions A/S

If a template is active, the filter definition is saved in the template.

In this way you can create different MRP scenarios per MRP Definition with templates.

Field description

Field	Meaning
Item	All items beginning with the search term.
Description	All items whose description begins with search term (placeholders are not allowed here).
Match code	Match code of the item (optional) .

Employee	Items assigned to this employee.
	The assignment is done in the item master under employee.
	Compatibility Notes:
	All items with no employee assignment have been displayed additionally.
	The following has to be added in the Open Event of the filter-window if the "old" behavior is expected:
	`setvar=ib_emptyemployee=true`
	Example as Script
	`windowevent open`
	`setvar=ib_emptyemployee=true`
	`end event`
	The effect appears at existing filter only when the filter will be changed.

Drawing number	Items with this drawing number stored in item master.
Raw material	Items with this raw material stored in item master.
Material group	Items with this material group stored in item master.
Main supplier	Items with this main supplier stored in item master.
Procurement type	Items with this procurement type Buy = All items with Procurement Method = "Buy" Make = All items with Procurement Method = "Make"

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td>Make or Buy = All items with Procurement Method = "Make" and "Purchased part" is activated
All = all items</td></tr>
<tr><td>Sales order</td><td>Items needed for the given sales order. Also a line from the sales order can be entered.</td></tr>
<tr><td>Work order</td><td>Items needed for the given work order. Also a order position can be entered.</td></tr>
<tr><td>Project</td><td>Item needed for the given project. (Project is taken from Sales order, Work order, etc.)</td></tr>
<tr><td>Filter</td><td>Predefined Filter
The following predefined filters are available:
<table>
<tr><th>Filter</th><th>Meaning</th></tr>
<tr><td>Only shortage</td><td>All item entries with negative balance at present or in the future.

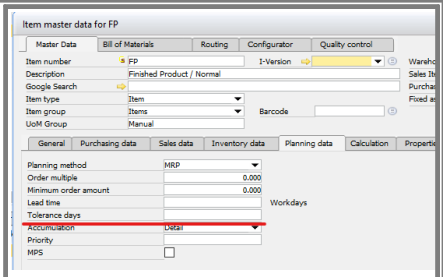
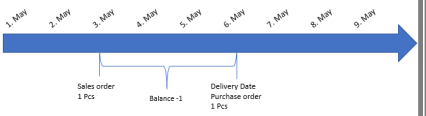
Important:
The entire time-line is checked – not only the current balance or the balance at the end of planning horizon.

If the balance is under-run at any time (e.g. possibly because the planned inflow of an order is too late) with more than what is defined in Tolerance Days, this entry will be displayed.

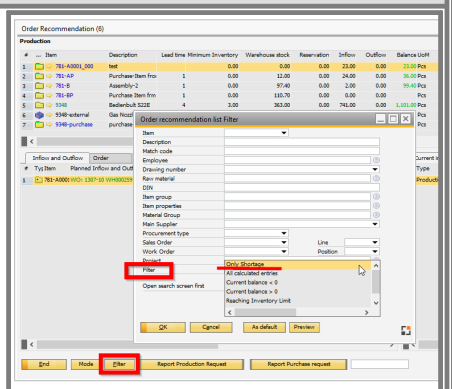
The system ignores negative balance that is in the past.

Tolerance days
In Item Master Data > Planning Data tab you can define Tolerance days.</td></tr>
</table></td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Filter	Meaning
	 Related to order scheduling: If there is negative stock in the time line, the item will be shown as shortage in MRP. Here you can enter the number of days. Negative balance is tolerated. ***Example:*** Stock = 0 Sales order = 3rd May Purchase order delivery date = 6th May Material comes 3 days late  If the tolerance date for this item is defined with 3 days or more, the result is: OK If the tolerance date is < 2, MRP must display this piece of information. In MRP the filter "Only shortage" means: Display all entries which have a negative balance in the timeline.

© 2026 Boyum IT Solutions A/S

Filter	Meaning
	 **(MRP Filter - Predefined Filter)** In this example the item has a balance of 0, but a negative balance between 3rd and 6th May MRP displays this item if the item has "tolerance days" < 3 days. MRP does not display this item if the item has a "tolerance days" > 3 days. **Negative Balance in past** Negative Balance in the past is ignored entirely. The calculation for the time area starts from the current Date. ***Example:*** Today is 5th May Sales Order is 3rd May Delivery = 6th May The system calculates: Balance is negative from 5th – 6th May = 1 day.

© 2026 Boyum IT Solutions A/S

	<table><tr><th>Filter</th><th>Meaning</th></tr><tr><td>All calculated entries</td><td>All item entries.</td></tr><tr><td>Current balance < 0</td><td>All item entries with a negative balance at the end of the planning horizon.</td></tr><tr><td>Current balance > 0</td><td>All item entries with a positive balance at the end of the planning horizon.</td></tr><tr><td>Reaching inventory limit</td><td>All item entries reaching inventory limit at the end of the planning horizon.</td></tr><tr><td>Filter 1...3</td><td>Up to three additional fields can be set up. ***See*** Configuration wizard – Materials management – MRP wizard – View.</td></tr></table> Allowed maximum number of characters is 1000 chars.
Show indirect items	If this check box is active, the system adds further Items to the calculation if they are related to the item range defined in the filter.
Open search window first	If active, the search mask is opened first at call up of the order recommendation list.

Functions

Function	Meaning
as default	⊟ The filter defined here is saved No template saved: Filter is stored as default for this scenario and the current user. A Template is active: Filter is assigned to the current template. The filter defined here is active if this template was selected.
Preview	Show results of filtering without closing the window.

© 2026 Boyum IT Solutions A/S

OK	Use the current filter. It remains active until the window "Order recommendation" is closed. If saved as default, it remains active until changed.

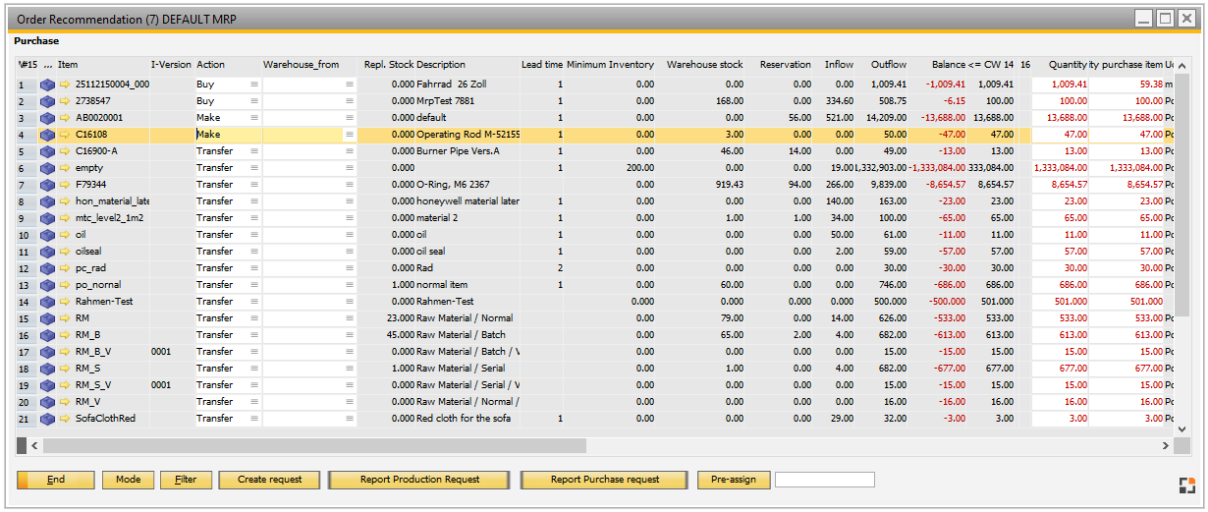
back to order recommendation view

9.2.1.1.3 Massive mode

You can manage requirements to plan production, purchase or inventory transfer documents by switching between two **modes**:

Single mode (default view of the Order recommendation window)
Massive mode

By switching to Massive mode, you can work on item level for planning purchase requests, production requests or Inventory transfer requests.
Click the mode button, and the complete bottom window area disappears to perform functions for all the lines:



Button	Function
Create request	Generate documents for each line with one click according to what was defined in the Configuration wizard: - Buy actions: Purchase request - Make actions: Production request - Transfer actions: Inventory transfer request.

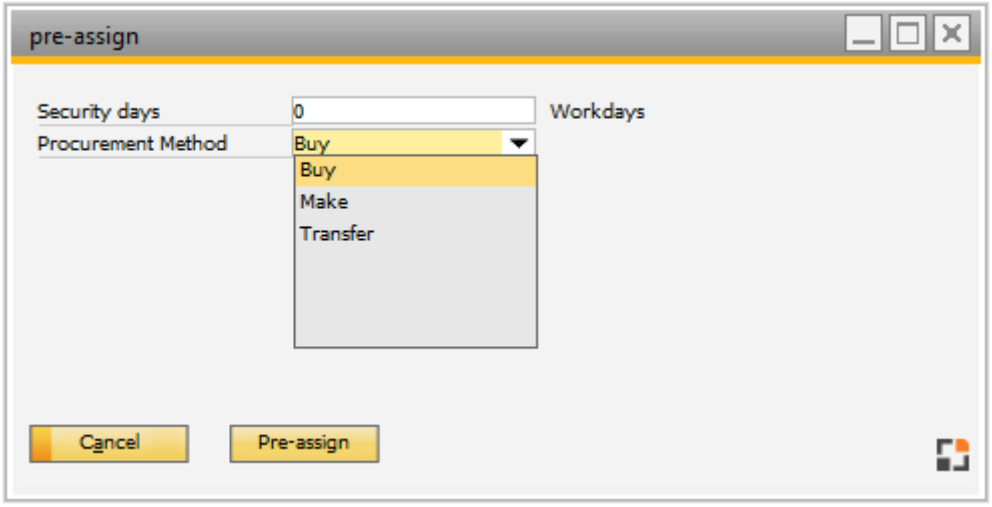
© 2026 Boyum IT Solutions A/S

Button	Function
	Note: For Transfer actions you must define a Replenishment warehouse in the corresponding field of the Order recommendation list.
Pre-Assign	Opens a new window to calculate what quantities need to be produced or purchased for the next X days. Use this to make material requirement planning for a defined upcoming period. ***See*** functionality description in Pre-Assign

9.2.1.1.3.1 Pre-Assign

In the order recommendation list it is possible to determine the quantity to be ordered automatically, even if the last possible date has not yet been reached. Select the number of buffer days, as well as the desired procurement method. Then, the test starts determining what quantity should be ordered, taking into account the lead time + buffer days (working days):

PATH: MRP > MRP Wizard/Order recommendations > Select a scenario > **Order recommendation** button > **mode** button > **Pre-assign** button.



WIndow mrp_strukturansicht_vorbelegen.psr

Calculation

The **requirement date** (list of peggings) is less or equal to the current date + lead time + buffer days given in working days. The sum of the affected peggings, taking into account the already planned receipts in this period, is the quantity to be ordered or to be produced. The calculated **delivery date**

© 2026 Boyum IT Solutions A/S

is, at earliest, the current day (today) + replenishment lead time + buffer days (work days). The determined date is at least one day after current date + replenishment lead time. If the determined day is not a working day, the next working day is identified and proposed. The determined values are entered in the order recommendation item list (upper part) in columns "quantity" and "requirement date".

Click the **Create request** button to complete the process.

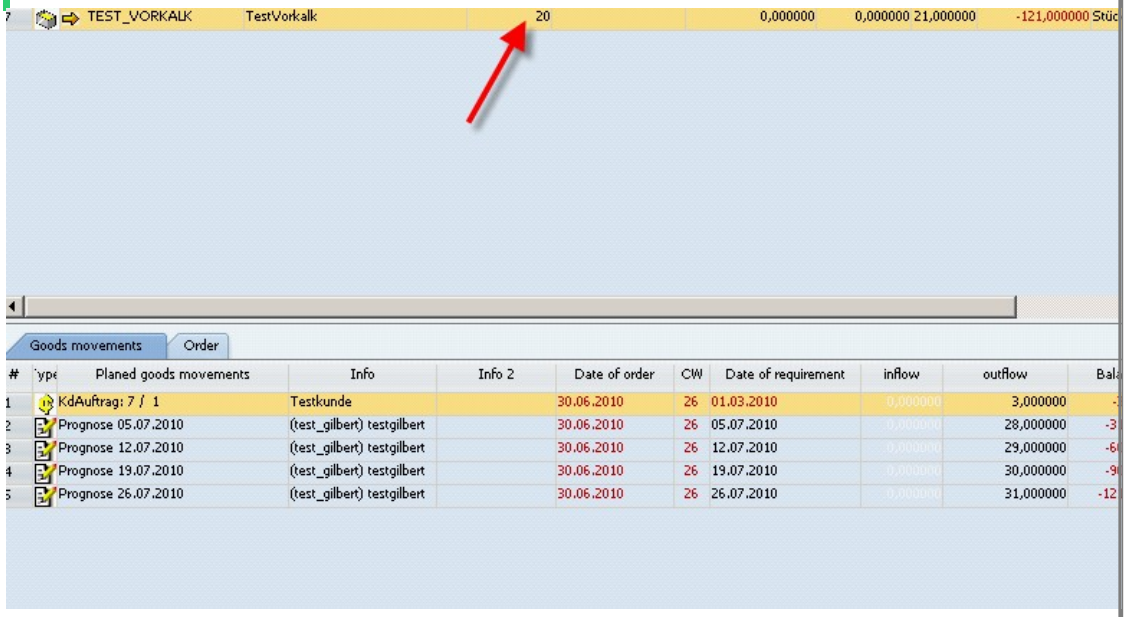
Note: This pre-allocation function considers only storage-related assemblies.

Attention: Supplier and price need to be entered prior to the creation of purchase documents. Items without this information are ignored.

Examples for the calculation of the order proposal date with help of the pre-allocation function:

1. Lead time from the item master appears in the calculation is 20 days.

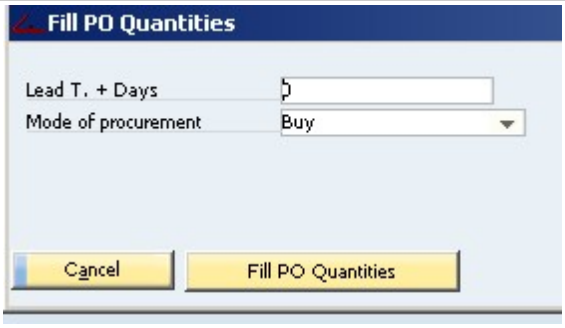
   PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button

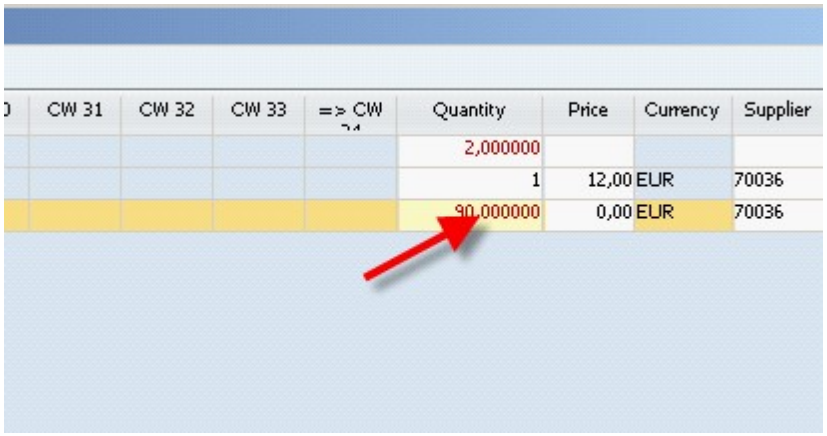


   Window: mrp_view_masterrahmen

2. Fill PO quantities. Additional days can be entered.

© 2026 Boyum IT Solutions A/S

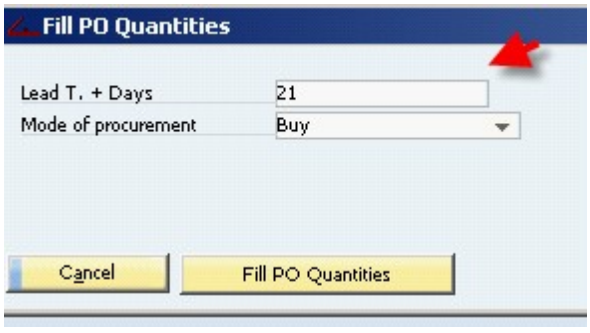




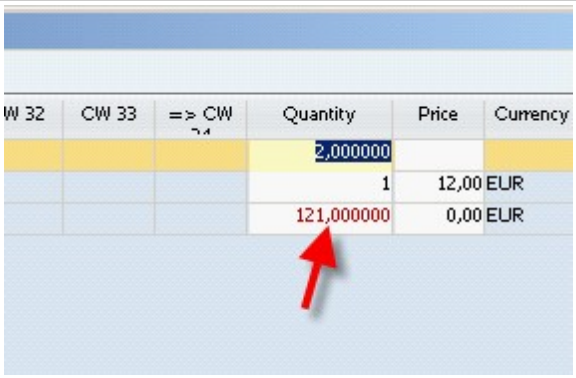
Period = Current day + Lead time (item master) + work days

End of the period = 24.07.2010

The last requirement of 31 pieces from 26.07.2010 is outside the period.



© 2026 Boyum IT Solutions A/S



Period = Current day + Lead time (item master) + work days
End of the period = 23.08.2010
The last requirement of 31 pieces from 26.07.2010 is now inside the period.

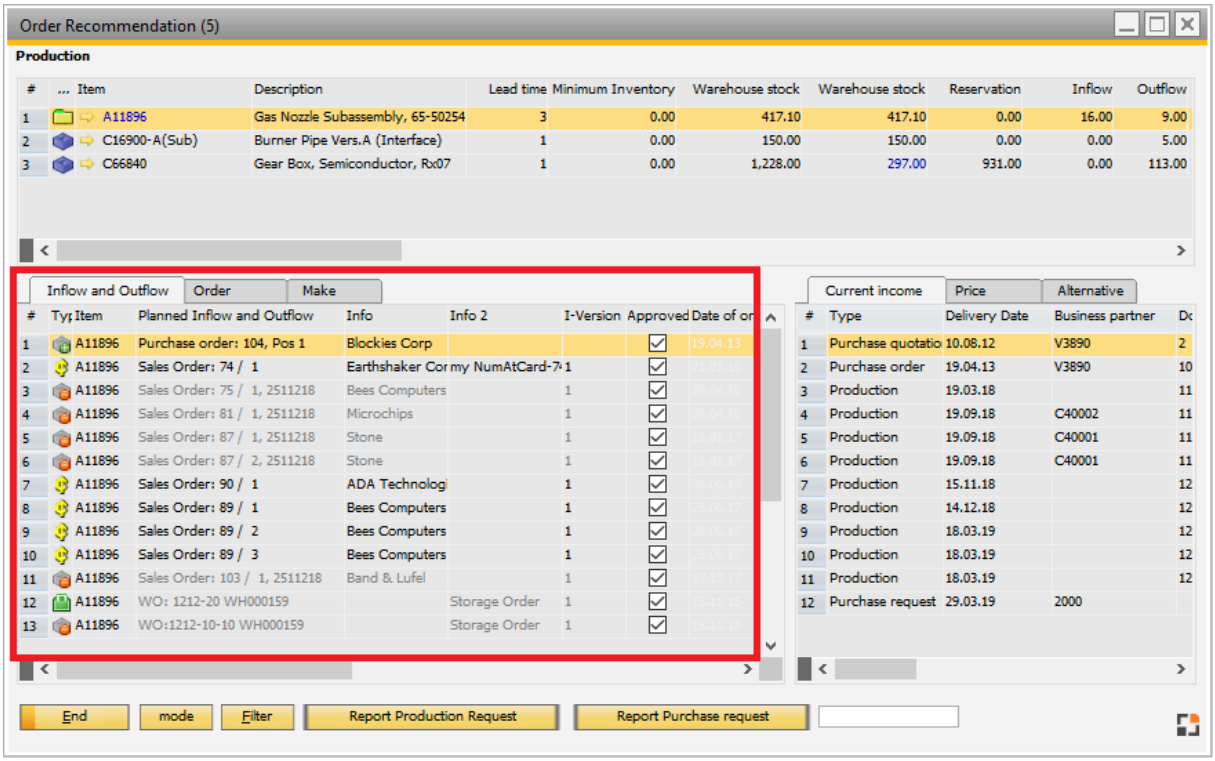
9.2.1.2 Requirement

Order recommendation list	
Inflow and Outflow	Info area
Order	
Make	

In this window section of the Order recommendation you can manage all requirements and can create an order related to the linked Sales order or Work order requirements .
To work on item level instead, switch to "Massive" mode and use the Order recommendation list.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.

© 2026 Boyum IT Solutions A/S



Window: mrp_view_masterrahmen.psr

9.2.1.2.1 Inflow & Outflow

This tab lists all requirements for producing or purchasing an item selected in the upper order recommendation list.
The detailed, daily/weekly/monthly or summed view of the requirements can be set in **Item Master > Planning Data > Accumulation**.

Double-click an order in this tab, and either the Order tab opens where you can edit and create purchase documents, or the Make tab to edit and create Production requests or a work order.

Considering Warehouse rules

If you double-click over the sales order line, the system copies a lot of sales order information to the Make tab and defines the Warehouse based on the defined warehouse rules.
If you simply click on Make tab, Beas does not copy any value from the inflow/outflow information, and you can manually fill all information that you need. In this case, Beas searches for the warehouse rule when the tab is activated, and thus no "origin" document is taken into consideration to find the warehouse rule.
Important: If you manually modify the link and set a sales order or any order information, the Warehouse rule is not recalculated.

© 2026 Boyum IT Solutions A/S

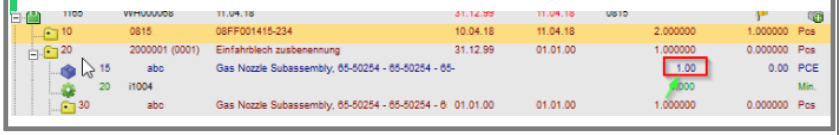
- Inflow & Outflow tab

Field	Description
Type	Type of inflow / outflow (symbol).
Planned inflow_outflow	Number and description of pegging (order and item).
Info	Name of customer/supplier.
Info 2	Content of "Customer ref. Nr".
Approved	- Requirement approved This switch is dependent on the pegging. In sales area the switch **Sales document > Logistics > Approved** serves as reference. **Sales area:** • Forecast: always released • Sales order: approved from document *ORDR.Confirmed* • Advance invoice: approved from document *OINV.Confirmed* • Transfer request:"approved from document *OWTQ.Confirmed* • Blanket orders: always released • Recurring sales orders: always released • SCM: always released Originated material requirement receives the same status. **Production area:** • Assemblies and BoM: approved from work order position *beas_mrp_detail.released 1/0* This switch is enabled if customer order is approved.
Date of order	- Latest date to order the goods or to start the production Calculated from the requirement date minus replenishment time or calculated production time. The date is only displayed if the balance is negative. The date is set to the current date if it is in the past. **Colors:** RED: If the date is before today, the date is displayed in red. GRAY: If the line is not evaluated, the date is displayed in gray.

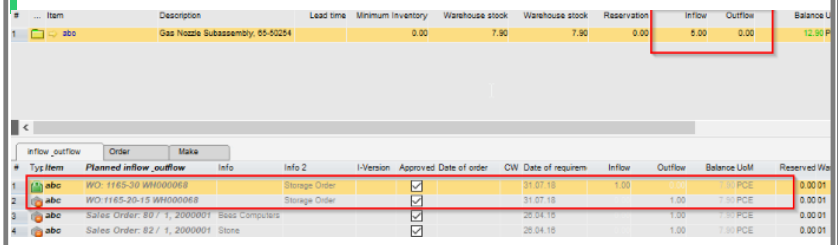
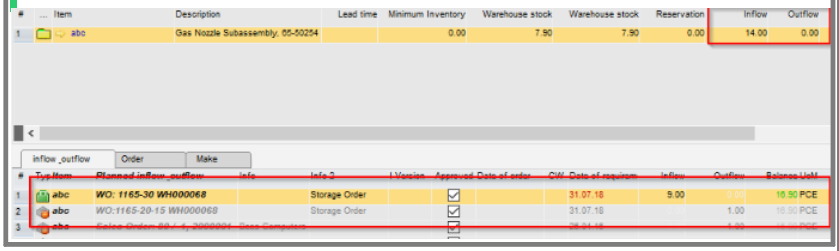
© 2026 Boyum IT Solutions A/S

	Calculation of the production time is done independent of any lot sizes. The required quantity is always used as lot size. Planned receipt of first purchase: At purchased items the number of workdays stored in the Configuration wizard is subtracted. Calculate order recommendation date
CW	Show the calendar week of the order date.
Date of requirement	Date of requirement of the material or assemblies. ***See*** Calculation of purchase recommendation date If a work order or a purchase order is created, this date is indicated as the delivery date. Purchase order for several instances of the same Item with different delivery dates is supported. The items, therefore, appear in several lines in the Order recommendation. **Colors:** RED: If the date is before today, the date is displayed in red. GRAY: If the line is not evaluated, the date is displayed in gray. ***See*** Purchase Create
Inventory	Stock before or after next inflow If minimum stock is considered, it is taken into account as follows: Minimum stock is calculated as a requirement at the moment of calculation. Peggings from the past have no effect. Minimum stock can become a pegging only if it has a negative balance at the moment of calculation. Balance by warehouse stock minus minimum stock is **positive**:

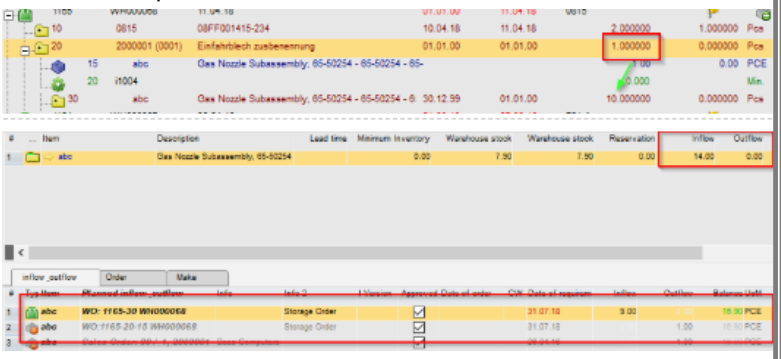
© 2026 Boyum IT Solutions A/S

	The minimum stock is subtracted directly from the warehouse. The minimum stock is not displayed as a requirement because it does not create a requirement. Balance by warehouse stock minus minimum stock is **negative**: The minimum stock is displayed as the pegged requirement (separate line). ***See*** Scenario > Details > Consider minimum stock Depending on setting in **MRP wizard > Details > Inventory > Balance: consider reservations.** If enabled, the reserved quantity is subtracted from stock. The field is inactive by default (***See*** window settings).
Inflow	Sum of all inflow Planned receipt quantity. Can be (example) - Work order positions - Negative Work order Bill of Materials positions If it is an order-related sub position of a work order, it only appears as neutral quantity (gray). If the quantity is higher than the quantity of the related Bill of materials position, only the quantity higher than the Bill of materials quantity is displayed. ***Example***: Special case for inflow or outflow work order sub-assemblies: work order with order-related sub-assembly (BoM position 10, item abc, covered by work order position 30, item abc) PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button 

© 2026 Boyum IT Solutions A/S

	Bill of materials: 1 Pcs Sub-assembly order related: 1 Pcs Balance is 0, inflow and outflow neutral. This is not visible in inflow or outflow, and in the requirement list it is gray. PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button  However, if you change the quantity from order-related sub-assembly, it changes. The quantity displayed is not for the main assembly but for the stock. PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button 
Outflow	Sum of all outflow. Sum of all planned outflow can be Sales order, Work order, Pre-Invoice etc. Work order Bill of Material Positions Total open Quantity of Work order Bill of Materials position `(Planned Quantity from BoM Position * Open quantity from Work order position)`

© 2026 Boyum IT Solutions A/S

	If this position is linked to a work order position (order-related item) then Beas checks if the planned open quantity is the same as the current one `open BoM Quantity - Reservation` Follow example  ***Example:*** Bill of materials = 1, but we produce 10 9 is for the stock In Beas only one inflow column is available, but in this case: 1 Pcs = neutrally, 9 = income Beas displays this in the following way: Item list Inflow: Include the quantity of the stock, in this case 9, and increase the inflow quantity from 5 to 14. Requirement list inflow: Do not display neutral quantities and display only the stock related quantity = 9
Outflow without reservations	Field is inactive by default (***see*** window settings). Sum of all outflow, minus the quantity reserved for the pegging.
Balance	⊟ Balance of planned stock movements Balance of stock - minimum inventory - planned outflow + planned inflow within the calculation period of this schedule. Settings in **MRP wizard > Details > Inventory > Balance: Consider reservations** affect this as follows: **If enabled**, balance is calculation as stock minus reservations:

© 2026 Boyum IT Solutions A/S

- (outflow minus reservations)
+ (inflow minus reservations)
In total, reservations are neutralized, but the time line of requirements can change.
If disabled, reservations are completely ignored in balance calculation.

Color codes:
GREEN: The balance is positive.
RED: The balance is less than zero = negative.

See Configuration wizard > Production > Reservation

Note: If reservation is disabled, no correct balance can be displayed for order-related items. ***See*** item breakdown. Order-related items are managed by the customer order to work order function.

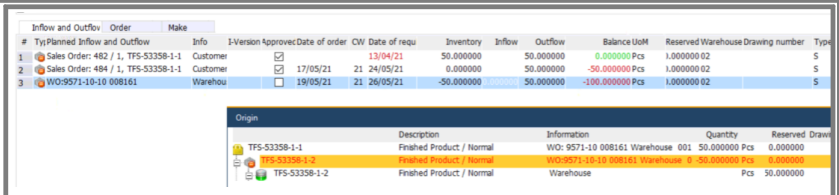
Note: For temporary reservation (***see*** requirement coverage) Beas does not check the Balance or order of entries.

Example:

This item is a stock-related sub-assembly. The order in this list is by Date of requirement.
Before the system checks which material is needed for the assembly, it checks if stock is available for this assembly.
If yes, Beas reserves the stock for this assembly and you do not need to produce it. The system does not check the required material.

The temporary reservation uses the defined priority: Minimum Stock, Work order, Sales order and so on.
What this means: Beas reserves the material for the work order (line 3) and **not for** the sales order (line 1 or line 2).
Right mouse click on line 3 - Origin you can see the defined reserved quantity.

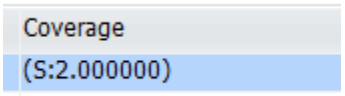
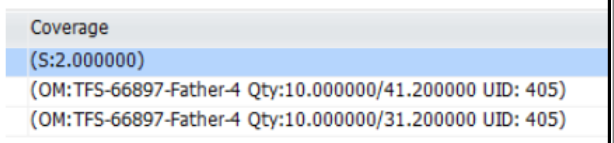
© 2026 Boyum IT Solutions A/S

	 **Filter *Only shortage*** This filter shows all items that need to be ordered or produced, or for which the planned inflow is too late. In this case, assembly “B” would be shown as shortage, as the balance for 4th May is negative. The inflow to be used can be specified in **MRP wizard > Detail > Breakdown of resources**.
UoM	Unit of measure.
Reserved	Shows the reserved quantity for this pegging This refers to the sales order, reserved invoices, production Bill of materials item. If something was reserved for the item in a warehouse or planned receipt, a quantity is displayed here.
I-Version	Requirement of inflow with item version number For planned inflow or outflow the item version number can be indicated.
Drawing number	Drawing number stored in planned inflow or outflow Can be transferred to subsequent document and changed. If working with item version control, this is usually the item version number.
Requirement Coverage (Covered, Covering, Demand)	Breakdown of the assembly was prevented because the requirement is covered by a temporary reservation Requirement coverage is further broken down to 3 columns including coverage for sub-assemblies when it comes from the parent: **Covered:** Amount that can be covered by stock or expected inflows.

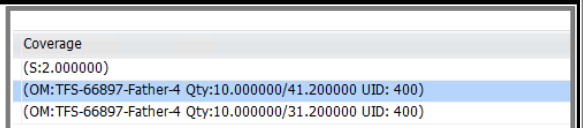
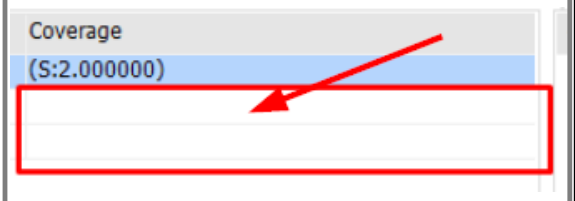
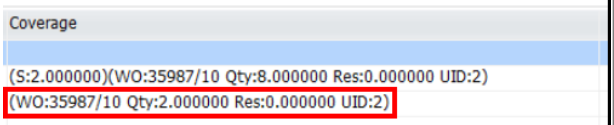
© 2026 Boyum IT Solutions A/S

Covering: Expected inflows that can be used to cover demand, visible at incoming receipts.
Demand: Final quantity demanded after considering coverage. Real demand = Quantity - Covered.

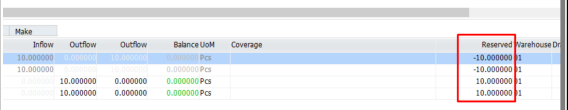
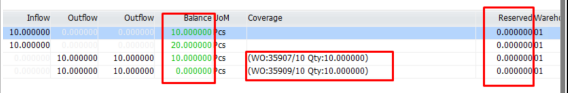
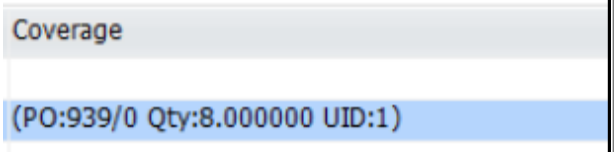
ID Description

ID	Description
(S)	Covered by quantity from stock. The assigned quantity is displayed. 
(OM)	Covered by multiple order or minimum order quantity.  **Format:** OM:"ItemCode" Qty:"Assigned quantity in this line"/"Accumulated quantity" UID: "Unique Identification of the line in MRP where the Inflow quantity is referenced" **IMPORTANT:** Activate the Consider multiple orders parameter! ***Examples*** **A. Consider multiple orders parameter ACTIVE:** 1. Set up a multiple order for 50 units in Item Master Data > Planning tab. 2. Create a Work order with this quantity, and activate the parameter in an MRP Scenario. 3. Check MRP Order recommendation Coverage information:

© 2026 Boyum IT Solutions A/S

ID	Description
	 This means that for first line the user will create a work order for 50 Units, in the second and third line, the orders are for 10 units, and also the remaining quantity available from the created work order. B. **Consider multiple orders parameter DEACTIVATED:** 1. Set up a multiple order for 50 units in Item Master Data > Planning tab. 2. Create a Work order with this quantity, and deactivate the parameter in an MRP Scenario. 3. Check MRP Order recommendation Coverage information: 
(WO)	Covered by planned production receipt.  **Format:** WO: "Work Order/Work Order position" Qty: "Assigned quantity in this line" Res: "Already reserved quantity" UID: "Unique Identification of the line in MRP where the Inflow quantity is referenced" **Reservations**

© 2026 Boyum IT Solutions A/S

ID	Description
	The Balance: reservations consider MRP parameter affects coverage calculation. **1. Balance: reservations ACTIVATED:** You have an item with a Work order to cover a specific Sales order. The Coverage field here does not display Work order information as it is not considered in the coverage calculation, and also doesn't modify the balance, because the quantity has already been reserved:  **2. Balance: reservations DECTIVATED:** In this case, MRP takes into consideration the Work order in coverage calculation and in balance:  **IMPORTANT:** The Reservation > Receipt reservation only at parameter affects the overall result of MRP coverage calculation.
(PO)	Covered by planned goods receipt from a purchase order.  **Format:** PO: "Purchase Order Number/Purchase Order Line"

© 2026 Boyum IT Solutions A/S

ID	Description
	Qty: "Assigned quantity in this line" UID: "Unique Identification of the line in MRP where the Inflow quantity is referenced"

For more information, ***see*** Requirement coverage calculation.

The list is sorted by the following criteria:

1. Shortfall of minimum requirement
2. Date of inflow or outflow
3. If the same date: first inflow
4. Document number

Icons - explanation

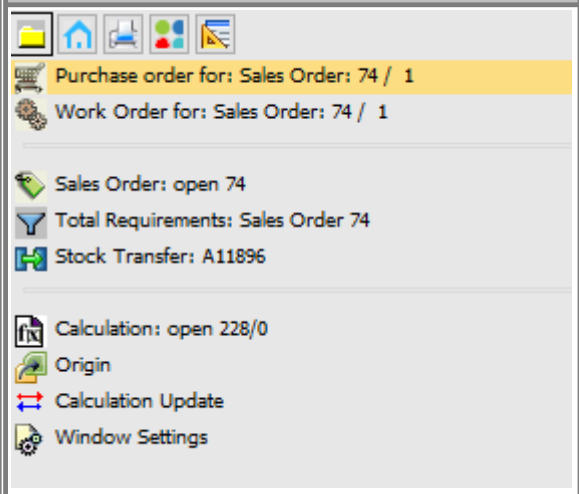
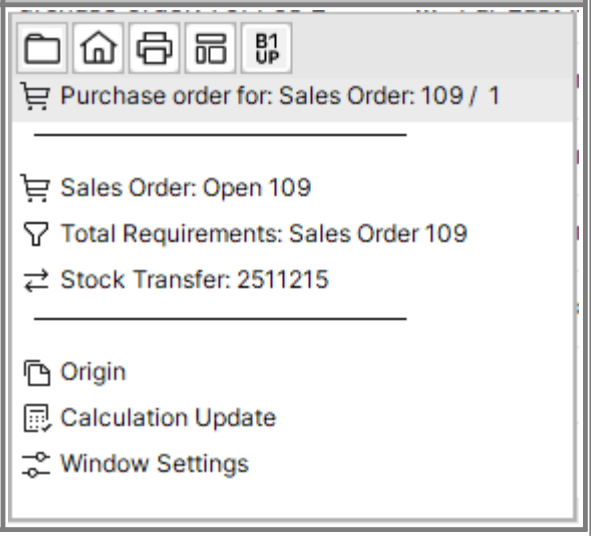
Icons

Icon	Boyum Style	Description
		Work order, negative Bill of Materials
		Work order position, assembly
		Purchase order, suppliers request, SAP/Beas purchase request, recurring order, blanket agreements supplier, SCM purchase order, every type of parked document , pre-receipt PO
		Transfer request target
		Transfer request source
		Sales forecast
		Sales order, pre-invoice, recurring customer order, blanket agreements, SCM sales order
		Minimum stock
		Calculation - purchase
		1. Summary (for example summary per day/week/month/multiple order) 2. Calculation - assembly

© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Description
		3. Precalculation for order-related sub-assembly
		1. Planned Bill of Materials from all types of documents 2. Precalculation for storage-related sub-assembly
		Maintenance
		User table in
		User table out

- Right-click menu in Inflow or outflow tab

Traditional style	Boyum Style
	

Field	Description
Purchase for	By double-clicking on the requirement originator (pegging) in case of purchase parts, the purchase tab is opened, and a link to the pegging is established. A purchase order is created linked to the originator.
Sales order for	By double-clicking on the requirement originator (pegging) in case of production parts, the production tab is opened, and a link to the pegging is established. A work order is created linked to the originator.
Allocation	Opens the allocation window for the selected order.
Total Requirements	Sets a filter and displays the total requirement for this entry.

© 2026 Boyum IT Solutions A/S

Stock Transfer	Opens the Stock transfer window.
Origin	The origin of requirements window opens in which a structure view for the selected item is presented. Peggings or replenishments are displayed above the item. The requirements and replenishments caused by this item are displayed below it.
Calculation update	Recalculated the requirement for the current item Replenishments (work orders, purchases) which cover the demand are recalculated based on the current data; the balance is recalculated. This way the impact of a newly generated order can be viewed in the time line. **Note**: Peggings are not determined again. Depending items (e.g. work order – BoM) are not re-computed, because these are also considered as peggings. The update is preformed automatically after an order was created if this option was activated. ***See* Configuration wizard > Materials management > MRP wizard > view > update immediately**. **The following information is recalculated:** - Current Stock - Min. Level Stock - planned Work order receipts - Work order requests - Purchase order - Purchase request - Blanket Agreements PO - Inventory transfer requests - SCM PO - Pre-Invoice PO - Reserve Invoice PO **Not recalculated:** - All areas in sales

© 2026 Boyum IT Solutions A/S

	- Forcast - Own SQL - Work order BoM
Window settings	Window settings.

9.2.1.2.1.1 MRP - Icons

Icons

Icon	Boyum Style	Description
		Work order, negative Bill of Materials
		Work order position, assembly
		Purchase order, suppliers request, SAP/Beas purchase request, recurring order, blanket agreements supplier, SCM purchase order, every type of parked document , pre-receipt PO
		Transfer request target
		Transfer request source
		Sales forecast
		Sales order, pre-invoice, recurring customer order, blanket agreements, SCM sales order
		Minimum stock
		Calculation - purchase
		1. Summary (for example summary per day/week/month/multiple order) 2. Calculation - assembly 3. Precalculation for order-related sub-assembly
		1. Planned Bill of Materials from all types of documents 2. Precalculation for storage-related sub-assembly
		Maintenance
		User table in

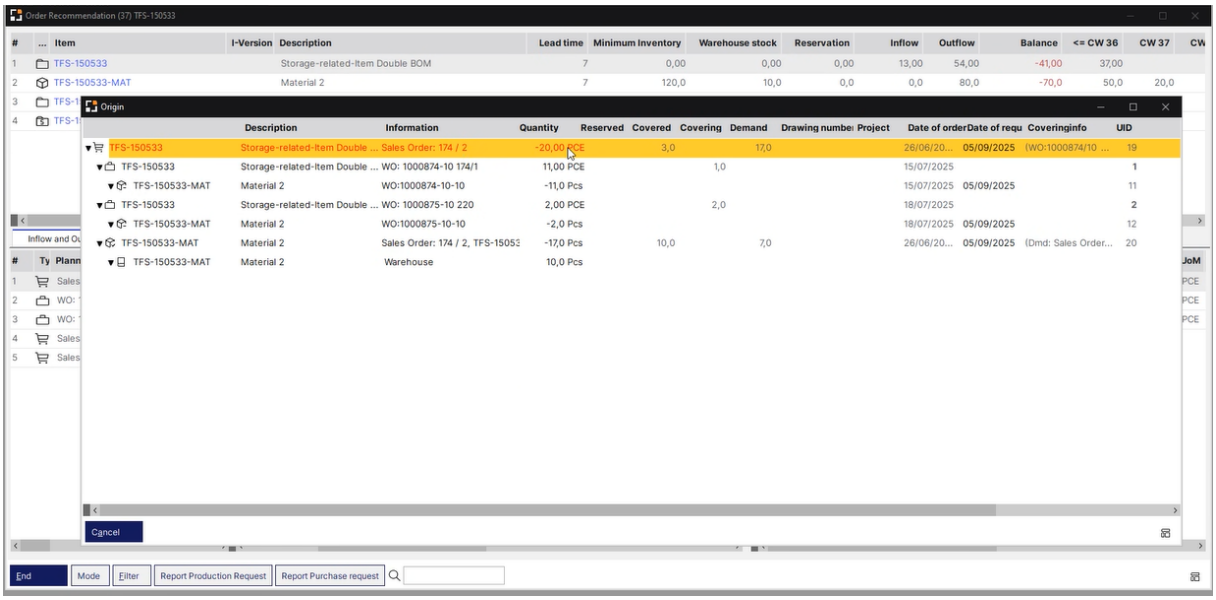
© 2026 Boyum IT Solutions A/S

Icon	Boyum Style	Description
		User table out

9.2.1.2.1.2 Origin of Requirement structure

Accessible via **MRP 2 > Click on a resource utilization bar** or **Order Recommendation > right-click menu in tab inflow and outflow (window area left below) > origin**

For the selected item, peggings and replenishments (on top in the structure) or the created demand and coverage (below) are displayed.



Window mrp_linked.psr

It shows:

- Which pegging caused which requirement.
- From which peggings a certain requirement arose.
- Which inflow covers the requirement. ***See*** Requirement coverage calculation.

The selected pegging is displayed in red and marked as the current row.

The following types of links are displayed:

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style	Description
		Work order (or the icon, stored in work order)
		Purchase order
		Warehouse
		Multiple order
		Pegging (e.g. from sales order, work order)

Temporary reservations are shown as well.

Restrictions

Maximum twenty references are displayed per entry.

field: beas_mrp_detail.demandconvering
Window: mrp_linked

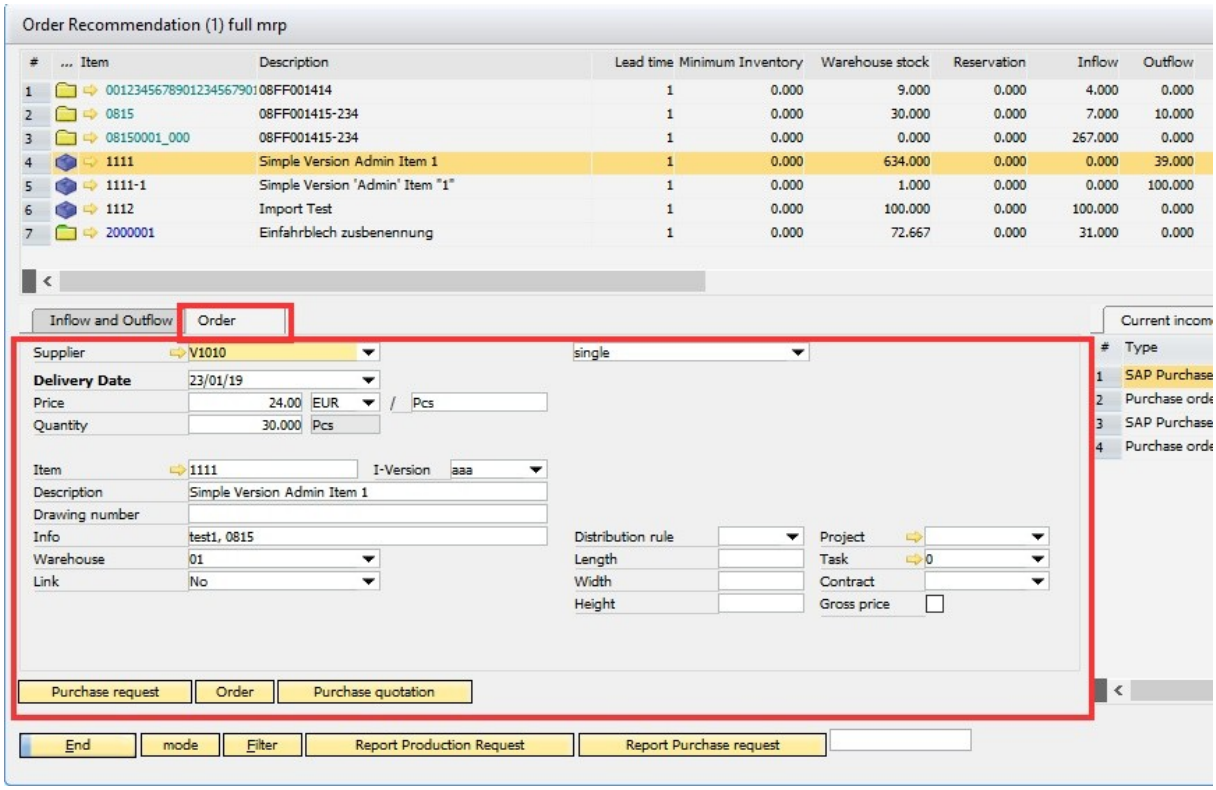
9.2.1.2.2 Order

Order recommendation list	
Inflow and Outflow	Info area
Order	
Make	

This tab can be used in relation to pegged Requirements or requirements without an order reference, purchase request or an ordering offer for the selected entry in tab "Inflow and Outflow". It is only visible for items to be purchased.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.

© 2026 Boyum IT Solutions A/S

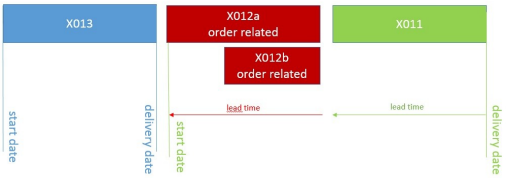


Field descriptions

Field	Description
Supplier	Supplier, for which you want to create a purchase order,-quotation or -request
Delivery date	⊟ Delivery date of the order Determined from the ⊟ Requirement date

Field	Description
Delivery date customer order	Delivery date stored in the customer order, prognosis, or another requirement originator.
Average delivery time	Average delivery time in work days, defined in the Configuration Wizard.
Lead time according to item master	Lead time in working days according to the item master, given lead time for planning.
Calculated lead	⊟ For an assembly (storage-related

© 2026 Boyum IT Solutions A/S

time	production): Using a backward scheduling simulation (routing of the assembly) the latest possible start date is calculated. Lot size is the requirement quantity. Multiple orders are not taken into account here. For order-related production: Using a backward scheduling simulation (routing of the assembly) the latest possible start date is calculated for the complete order-related item structure. This corresponds to the start date of the sub-assembly which must be produced first. Lot size is the requirement quantity. **Important**: The multiple orders, lot size, existing time reservations on resources are not taken into account during calculation. **ATTENTION:** In case of sub-assemblies, the parameter **only** affects lead time calculation of order-related sub-assemblies used as WO BoM! For storage-related sub-assemblies, the system uses fix lead time defined in Item master data. If calculation of the lead time was disabled, the item lead time is used as reference. The lead time is the sum of a single lead times of the order related sub-assemblies. 

© 2026 Boyum IT Solutions A/S

Example 1: Lot size and setup time.
Assembly A with operation sequence A1, 10 days setup time, lot size is 10.
Company calendar: Every day is a working day.

Customer order, delivery date 30.12.
Pos 1 100 pieces: Calculated: 10 days, start 20.12.
Pos 2 100 pieces: Calculated: 10 days, start 20.12.
Pos 3 200 pieces: Calculated: 10 days, start 20.12.

Example 2: Lot size and time for processing.
Assembly A with operation sequence A1, time for processing 1 hr/piece, lot size is 10.
Company calendar: Every day is a working day.
Resource has 1x10 hrs/day.
100 pieces = 10 days

Customer order, delivery date 30.12.
Pos 1 100 pieces: Calculated: 10 days, start 20.12.
Pos 2 100 pieces: Calculated: 10 days, start 20.12.
Pos 3 200 pieces: Calculated: 20 days, start 10.12

Apparently, there is a problem, there is only one single resource, capacity limits

© 2026 Boyum IT Solutions A/S

	and time reservations are not taken into consideration. This problem can only be avoided by the production orders being created as planned orders. Using APS, planned orders can be correctly scheduled and necessary resource times can be reserved.
Requirement date according to the forecast	The planned requirement date that is defined in the forecast. In a monthly forecast, it is the beginning of a month, in weekly forecasts, the Monday of the respective week. In case of an assembly, the required date of the sub-assembly is earlier.
Pre call time for prognoses	In the **Configuration Wizard MRP > Calculation > Forecast > Pre call time for prognoses** in calendar days.

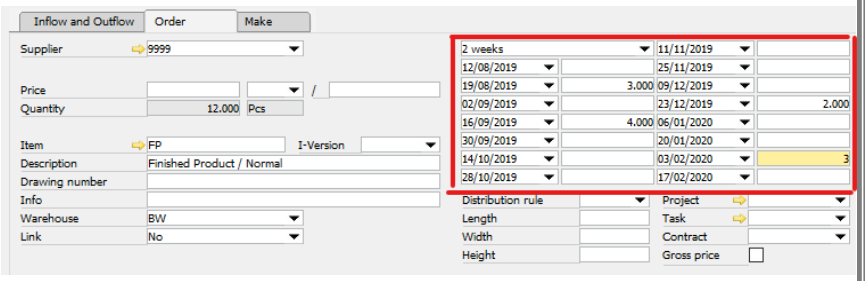
Determining the date, depending on pegging

Field	Description
Customer order purchase part	Delivery date according to the customer order, average delivery time. Lead time according to the item master, period needed for replacement.
Customer order anonymous and order related production	Delivery date according to the customer order, average delivery time. Lead time according to the item master, period needed for replacement.
Forecast purchase part	Requirement date pre-call time for prognoses, lead time according to the item master, period needed for replacement.
Production BoM position	If the BoM is assigned to a routing position, its Processing time – Start time is as follows: Details: • With the Issue material with first

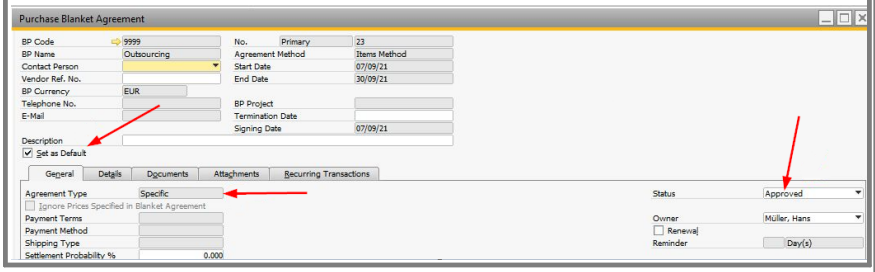
© 2026 Boyum IT Solutions A/S

	operation setting the Processing time – Start time is the first reportable, active routing position. • With the Issue material later setting, the Processing time – Start time is the last reportable, active routing position. • If there is no reportable routing position, the delivery date is used as reference. If the Consideration of link to routing parameter in the MRP Wizard was disabled, the start time of the work order position is used. If this was not set, the delivery date is used. From the date calculated this way, the first working day is determined according to the factory calendar. Then, the Item – lead time is subtracted in calendar days, and the lead time – safety days as per configuration wizard is subtracted in work days. If dealing with a purchase part, the Goods receipt – Idle time is also subtracted. If the resulting date is in the past, the order recommendation date is the next work day starting from the current day. ***See*** Order recommendation – Requirement. and from the current selected row of the pegging.
Single / daily / weekly / monthly	Single or multiple delivery days Select "single" for single delivery, the order is created for one date. For multiple delivery enter the date and quantities.

© 2026 Boyum IT Solutions A/S

	Beas suggests the delivery date and the necessary purchase dates, depending on the selected view: daily weekly 2-week and monthly  This view refers to the required date and, unlike the top list, not the "latest possible date of order." Dates are proposed considering the factory calendar and the quantity is calculated with consideration of order multiples. Result: Even if a weekly order is selected according to the forecast, it is possible that other than a weekly request is presented. As the delivery date is suggested as the beginning of a time range, it takes account of the factory calendar. In the monthly view, this appears clearly.
Quantity	Quantity purchase UoM. Note: Unit groups are not supported!
Price	⊟ Purchase price according to standard pricing Beas reads the price automatically if you change the date, supplier or quantity. based on: - Purchase blanket agreement - special prices - price list (linked to the supplier) - standard price list

© 2026 Boyum IT Solutions A/S

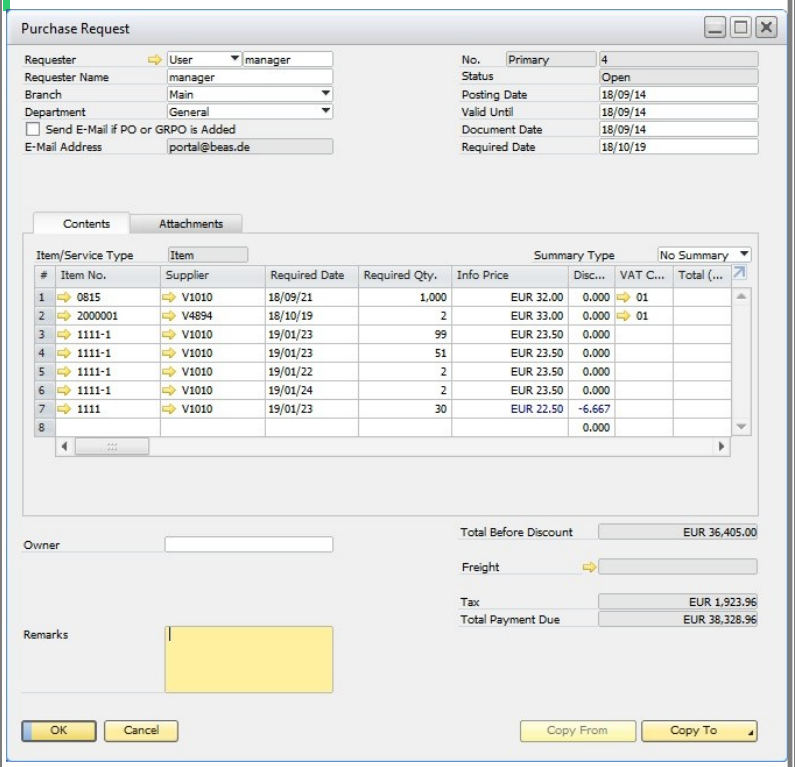
	Beas uses the same concept as SAP Business One – Purchase order If there are no supplier price lists and no special price lists, the last purchase price is used. Price is displayed in purchasing UoM. Price is for "today" (not delivery date) **Note for blanket agreements** Blanket Agreement is only checked if: - Agreement Type = "Specific" - Status is Approved - Today inside Start- and End Date - "Set as Default" is activated (NOTE: In SAP 10.0 this field is not available any more) 
Quantity	Quantity warehouse units.
Item	Item ID.
I-Version	Item version number I-Version number used from item master. If in pegging (sales order, production – BoM position) an I-Version was stored, it is used.
Designation	Item designation.
Drawing number	Drawing number Drawing number from item master is used. If a version number was stored, the Drawing number according to item version is used. If in pegging a drawing number was stored, it is used.
Info	Free text.
Project	Link to project.

© 2026 Boyum IT Solutions A/S

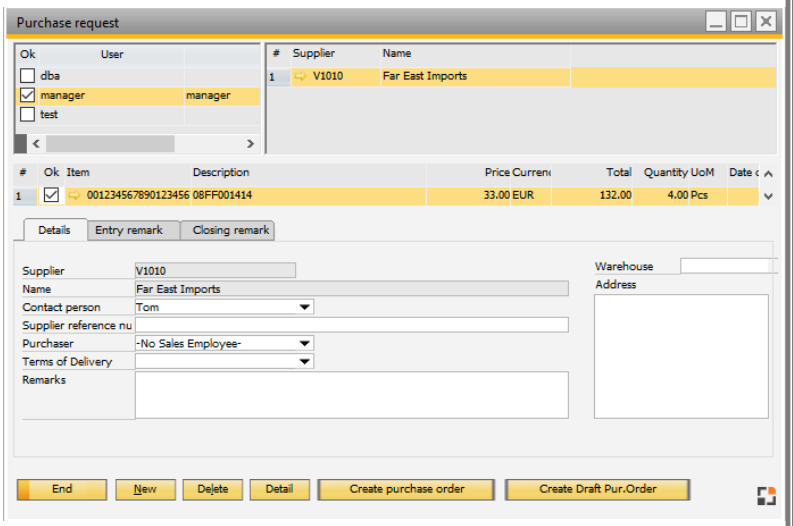
Warehouse	Current item warehouse.
Link	Order can be linked to a pegging. Link is only possible to a pegging with same item number. **Note**: Receipt reservations for purchase orders are currently not supported. Link serves only as information
Contract	Number of the purchase blanket agreement You can see all entries - if today is between Start/End date of the purchase blanket agreement - if blanket agreement is approved and not closed or canceled - if defined Item Version number is same as in current entry or item Version Number is empty in current entry or blanket agreement if you choose a blanket agreement, the system inserts price, currency, item version (if defined) and supplier from blanket agreement. Note: This was designed for SAP B1 9.3 PL 3, which is not supported by Beas Manufacturing. Note: The Contract field always shows information related to the post-in date, that is the day of creating the Purchase order/ request, and NOT related to the Delivery date.
Gross price	Use price as Gross price Allow to define the price as gross price. Appears only if you have selected the check box "Enable Separate Net and Gross Price Mode" in **Administration > System Initialization > Company Details > Basic Initialization tab.** Determine whether it is a gross price list or net price list. • Gross: All prices defined in the window are base prices and gross prices. • Net: All prices defined in the window are base prices and net prices.
Distribution rule	The distribution rule can be used as reference to a cost center. It is transferred to the purchase order.
Length, width height	Item properties.

© 2026 Boyum IT Solutions A/S

Buttons

Field	Description
Purchase request	▣ Create a Purchase request The button is only visible if the user has the authorization to create a purchase request. It uses the Beas or the SAP variant to create a purchase request. ***See*** Configuration Wizard > Purchase request ▣ SAP variant Creates an SAP purchase request. If an active SAP purchase request for the currently used supplier exists, Beas adds the line to the current document. For more information on SAP Purchase request creation, ***see*** SAP documentation. *beas 9.3 PL 2* ▣ Beas variant PATH: MRP > Purchase request 

© 2026 Boyum IT Solutions A/S

	Creates a Beas purchase request.  *Window mrp_purchase_master.psr* For more information, ***see*** Beas purchase request.
Create purchase order	Create a purchase order The button is only visible if the user has the authorization to create a purchase. Beas creates a purchase request first and, from that a purchase order. If your authorization to create a purchase was blocked from SAP, an error message is displayed, but the purchase request is created.
Create purchase quotation	A purchase quotation is created for the selected entry. This creates a SAP Business One Purchase quotation document. Note: Function "Create online Quotation" is not supported. Note: The price is not transferred (as in SAP Business One) because it is to be queried.

9.2.1.2.3 Make

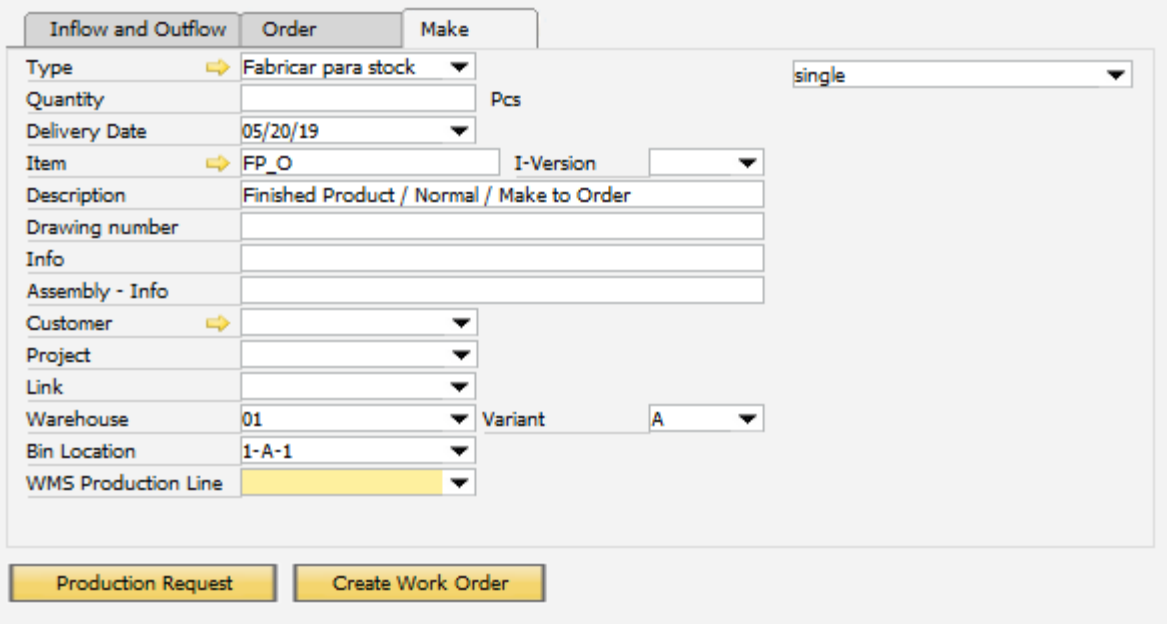
Order recommendation list

© 2026 Boyum IT Solutions A/S

Inflow and Outflow	Info area
Order	
Make	

This tab is only visible for assemblies. It can be used to create a production request or a work order for the selected item.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.



Window mrp_view_masterrahmen.psr

Field descriptions

Field	Description
Type	Production type. Default: When assigned to a sales order "production type for customer order", otherwise "production type for storage order". This is set in the Configuration Wizard. ***Also see***: Production Types Configuration wizard > Production > Create > Production type for warehouse order / sales order
Single / daily / weekly / monthly	Select single for single production. For recurring production enter the frequency and quantities.

© 2026 Boyum IT Solutions A/S

Field	Description
Quantity	Quantity in consumption units.
Delivery date	Delivery date of the order. Determined from the requirement date and from the current selected row of the pegging.
Item	Item ID.
I-Version	Active in case of version-managed items.
Info	Text field.
Assembly - Info	Free text.
Customer	Customer of the work order.
Project	Link to project.
Link	Link to a pegging (sales order, advance invoice, production outflow). ***See*** Reservation

Warehouse	The Production Warehouse. ***See*** standard rules for the work order warehouse.
	Note: Sales order to work order: The system does not use the warehouse from the sales order.
	Important: In case of semi-finished products, the warehouse is defined in the BoM settings of the parent WO position.
	To use the behavior of versions before 2022.06 (that is to load the default Item warehouse), use the following script:
	`windowevent display_workorder`
	`post=post=post=sql=select "OITM"."DfltWH" FROM "OITM" WHERE "ItemCode" =<dw_3.item.itemcode.value,dbstring>`
	`post=post=post=dw_3.item.whscode.value=<wert1>`
	`end event`

Bin Location	Select bin location. In case of a Bin-managed warehouses, the Bin Location field is displayed. If a bin location is defined in a warehouse rule, Beas inserts the defined bin code.
WMS Production Line	Select WMS Production Line for the work order. If the warehouse is a WMS-managed warehouse, Beas also displays this field.
Variant	Item variants. ***See*** Variants.
Configuration	Item configuration. ***See*** Configurator for *Beas 9.2* and Product Configurator for *Beas 9.3*.

© 2026 Boyum IT Solutions A/S

Field	Description
Multi	Multiple order / purchase.
UDF1-4	Define UDF fields for work order position. ***See*** Configuration Position

Buttons

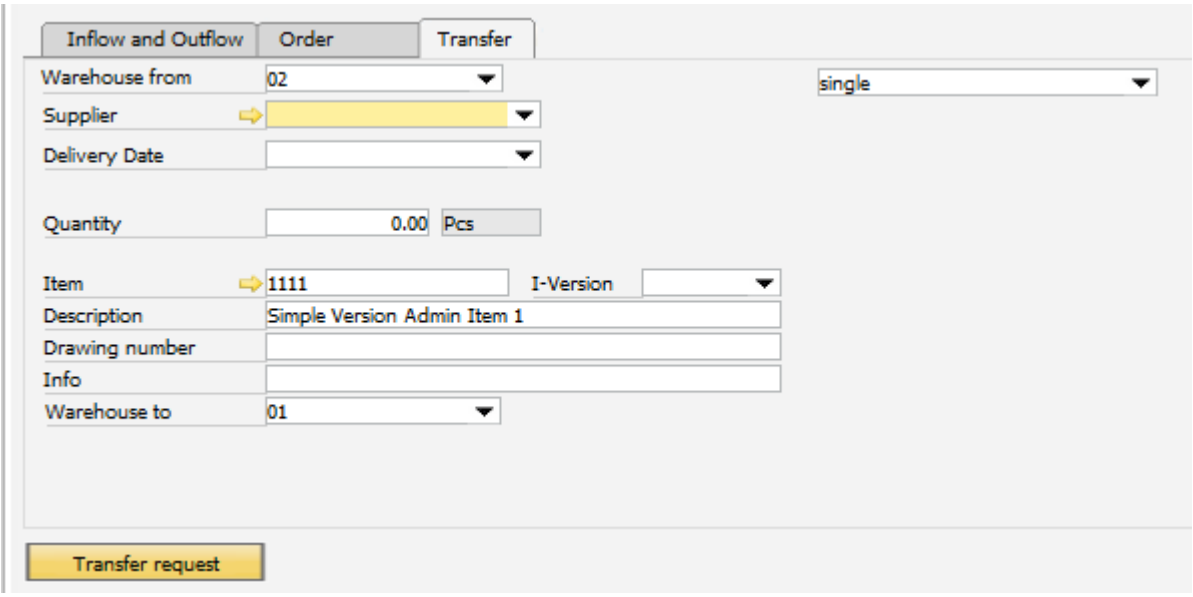
Name	Description
Production request	Create a production request for the selected requirement. In the production request you can merge several requests into one work order, or you can create the work order later. Note: It is not possible to link (reserve) a production request to a base document. Use this only for stock-related assemblies.
Create work order	Create a work order for the selected requirement.

9.2.1.2.4 Transfer

In this tab you can make settings for Inventory transfer request created from MRP. The tab is only available for items that are marked with the "Buy" procurement method in the item master data, and are visible if, at least, a Replenishment warehouse was selected.
See also MRP Replenishment Warehouse tab.

PATH: MRP > MRP Wizard > Select a scenario > click the Order recommendation button

© 2026 Boyum IT Solutions A/S

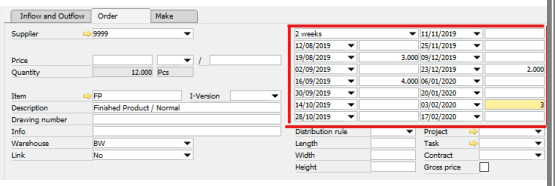


Window mrp_view_masterrahmen.psr

Field descriptions

Field	Description
Warehouse from	Replenishment warehouse to transfer the item from. The default one in this list is the first warehouse with inventory.
Supplier	Select supplier from the drop down list.
Delivery Date	Select delivery date.
Quantity / UoM	Quantity to be transferred in Inventory UoM.
Item	Item code. The yellow arrow opens the Item Master Data.
I-Version	Item version
Description	Item description
Drawing number	Drawing number
Info	Additional information - free text.
Warehouse to	Select warehouse to make the transfer request to.
single/Day/Week/2 weeks/Month	Set the type of request: single request or based on periodic settings.

© 2026 Boyum IT Solutions A/S

Field	Description
	Select "single" for single delivery, the order is created for one date. For multiple delivery enter the date and quantities. Beas suggests the delivery date and the necessary purchase dates, depending on the selected view: daily weekly 2-week and monthly  This view refers to the required date and, unlike the top list, not the "latest possible date of order."
Transfer request button	Create transfer request with the settings made in this tab. ***See*** also how to create transfer request in Massive mode.

back to Order recommendation view

9.2.1.3 Info Area

Order recommendation list	
Inflow and Outflow	Info area
Order	
Make	

This right, info area includes several tabs for the planned inflow:

© 2026 Boyum IT Solutions A/S

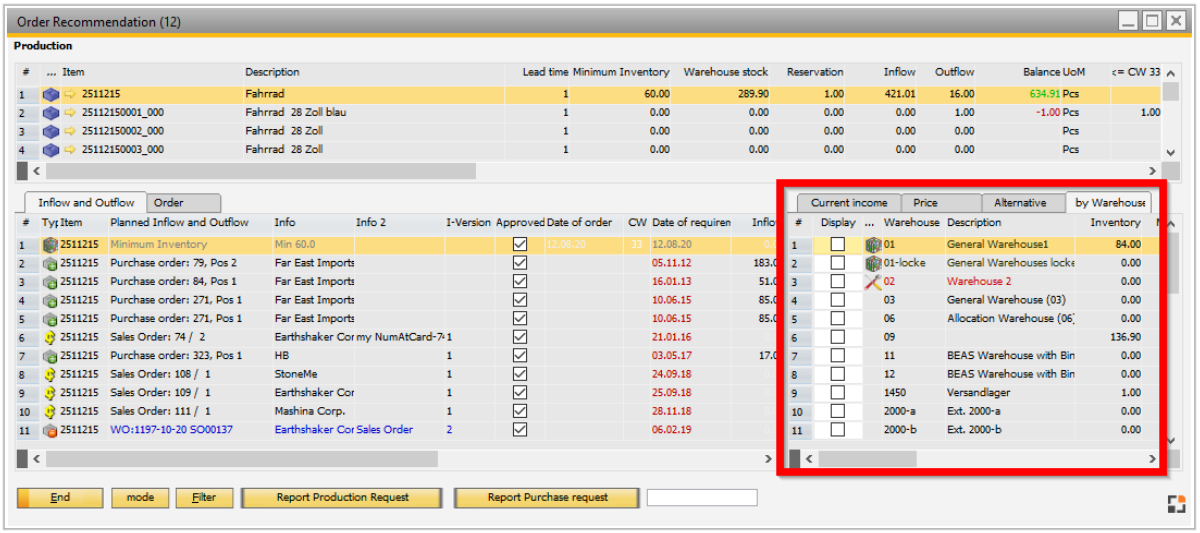
MRP Current Income

MRP Price

MRP Alternative material

MRP Warehouse

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.



Window mrp_view_masterrahmen.psr

back to Order recommendation list

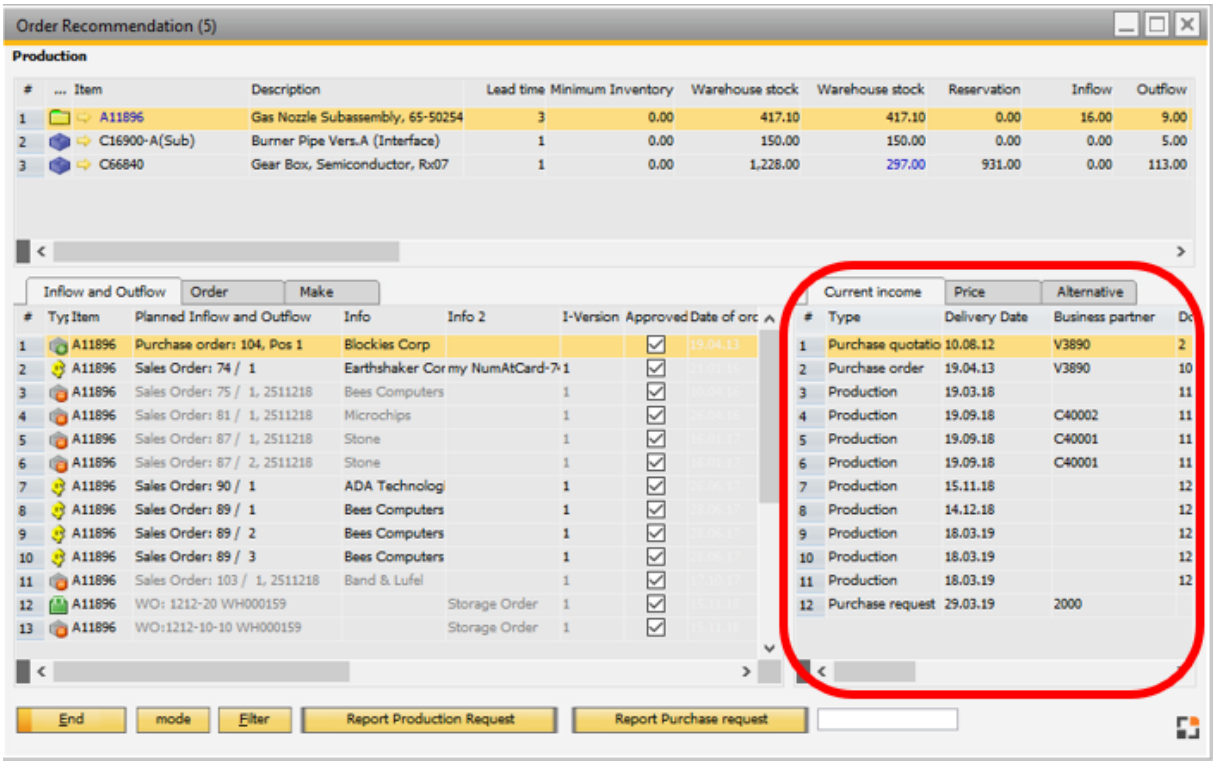
9.2.1.3.1 MRP Current Income

This tab lists the already initiated reserve invoices and work orders and displays the current inflow (current view).
Only remaining quantities of open orders are displayed.

It is possible to delete requests on this side with a right-click.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button > right bottom window section.

© 2026 Boyum IT Solutions A/S



Window mrp_view_masterrahmen.psr

if you click in Inflow and Outflow on the same production order, you can see the same entry in "current income" in green.

Note: information displayed in this tab corresponds to real-time data and not that of the MRP calculation.

Font colors:

Usually displayed in black.

Red color: Something is incorrect: missing supplier, no price, delivery date in the past.

Blue: Reserved quantity.

Grey: Planned inflow/outflow is not valued. The following reasons may be the cause of this: not active, not released, not within the warehouses to be valued.

Field descriptions

Field	Description
Type	Type of document: Purchase quotation, purchase order, SAP

© 2026 Boyum IT Solutions A/S

Field	Description
	purchase request, Production, Production request, Inventory transfer request, (WMS) Customer Reservation
Delivery Date	Delivery date for the indicated document
Business Partner	Business Partner
Document	Document number
Cross Reference	Radio box - when marked, indicates existing cross reference
Release	
Pos	Position number
Quantity	required quantity
UoM	unit of measure
Price	price
Currency	currency: EUR, USD, CAD GBP etc.
Warehouse	Warehouse code
Info	Additional information
Origin Type	
UDF 1-3	(Only available via customization) - Freely definable fields

Window settings are available.

Other Info area tabs:

MRP Price

MRP Alternative material

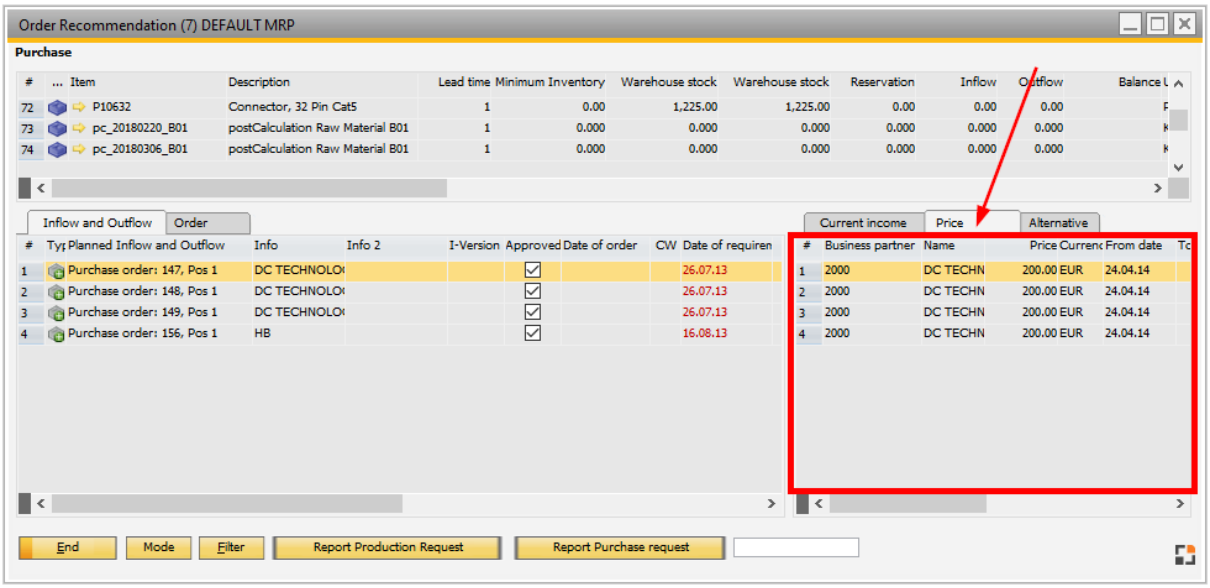
MRP Warehouse

9.2.1.3.2 MRP Price

In the tab "Price" you can see the special price list from the chosen Supplier.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button > right bottom window section

© 2026 Boyum IT Solutions A/S



Window mrp_view_masterrahmen.psr

Field descriptions

Field	Descriptions
Business partner	The business partner code of the selected supplier.
Name	Name of the selected supplier
Price	Price taken from the price list of the supplier
Currency	Currency
From date	Starting date of a special price.
To date	Ending date of a special price.
Price	Special price valid for the period between the From-To dates.
Currency	Currency
Discount	Discount
From quantity	Special decreased price is valid from this quantity.
Price	Special price valid for quantity =< in From quantity
Currency	Currency
Discount	Discount

© 2026 Boyum IT Solutions A/S

Window settings are available.

Other info area tabs:

MRP Current Income

MRP Alternative material

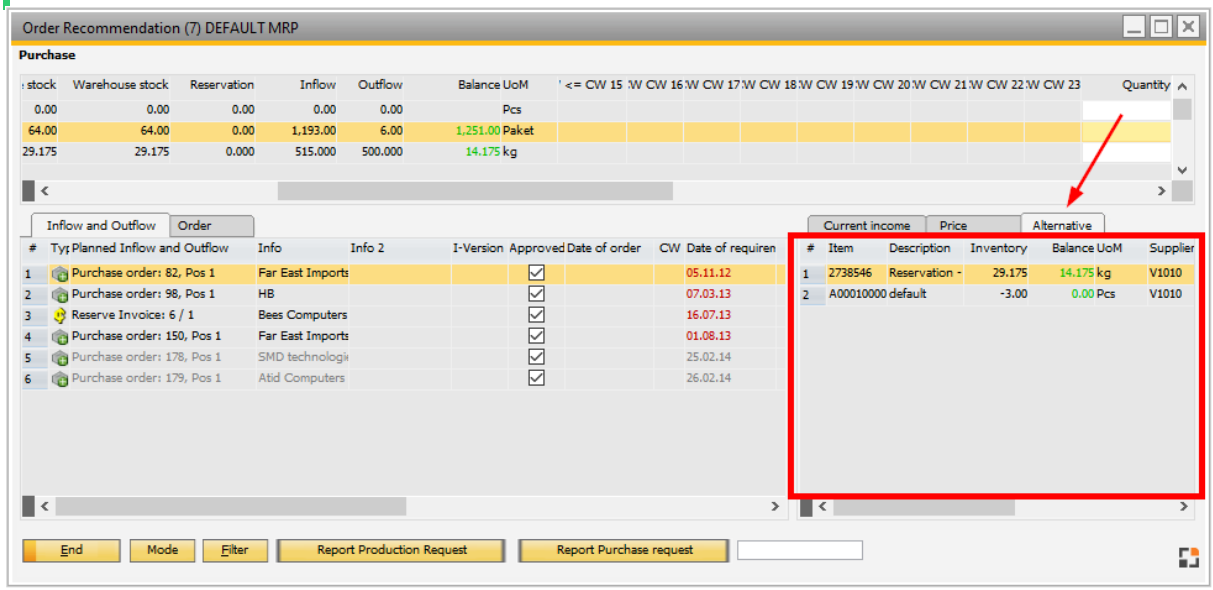
MRP Warehouse

9.2.1.3.3 MRP Alternative

This tab lists the alternative items stored in the pegging and alternative items according to **SBO Inventory > item management > Alternative items** and in Bill of Materials positions.
All planned inflow and outflow and balance of current MRP run appear in the list.

If a work order is selected in the left window (multi-selection possible) with a right-click, an item can be exchanged in the work order.
If dealing with a BoM-related alternative, the stored quantity is transferred to the work order.
For alternative items, the new quantity is calculated and entered.
If it is lower than the requirement quantity, the quantity in the original item can be changed. For other peggings no item exchange is possible.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button > right bottom window section



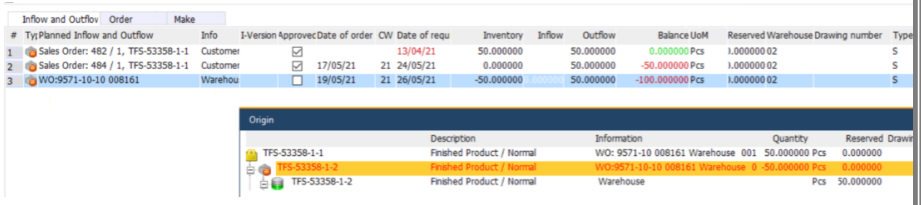
Window mrp_view_masterrahmen.psr

Field descriptions

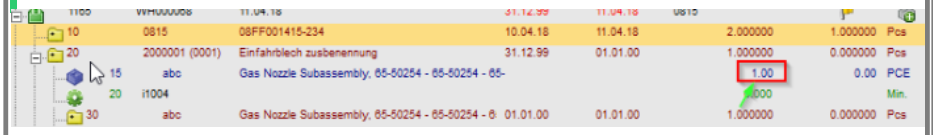
© 2026 Boyum IT Solutions A/S

Field	Description
Item	Item code
Description	Item description - serial-, batch-, version managed item, raw material etc.
Inventory	Stock before or after next inflow If minimum stock is considered, it is taken into account as follows: Minimum stock is calculated as a requirement at the moment of calculation. Peggings from the past have no effect. Minimum stock can become a pegging only if it has a negative balance at the moment of calculation. Balance by warehouse stock minus minimum stock is **positive**: The minimum stock is subtracted directly from the warehouse. The minimum stock is not displayed as a requirement because it does not create a requirement. Balance by warehouse stock minus minimum stock is **negative**: The minimum stock is displayed as the pegged requirement (separate line). ***See*** Scenario > Details > Consider minimum stock Depending on setting in **MRP Wizard > Details > Inventory > Balance: consider reservations.** If enabled, the reserved quantity is subtracted from stock. The field is inactive by default (***See*** window settings).
Balance	Balance of planned stock movements Balance of stock - minimum inventory - planned outflow + planned inflow within the calculation period of this schedule. Settings in **MRP wizard > Details > Inventory > Balance: Consider reservations** affect this as follows: **If enabled**, balance is calculation as stock minus reservations: - (outflow minus reservations) + (inflow minus reservations) In total, reservations are neutralized, but the time line of requirements can change.

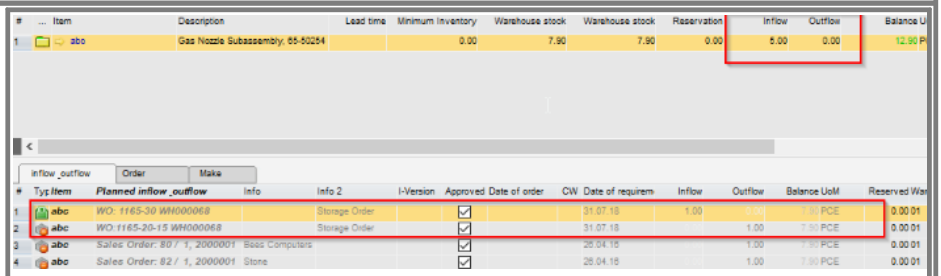
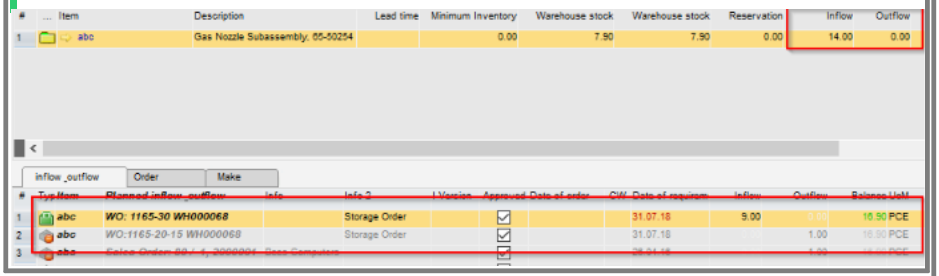
© 2026 Boyum IT Solutions A/S

Field	Description
	If disabled, reservations are completely ignored in balance calculation. ***See*** Configuration wizard > Production > Reservation **Note**: If reservation is disabled, no correct balance can be displayed for order-related items. ***See*** item breakdown. Order-related items are managed by the customer order to work order function. Note: For temporary reservation (***see*** requirement coverage) Beas does not check the Balance or order of entries. ***Example:*** This item is a stock-related sub-assembly. The order in this list is by Date of requirement. Before the system checks which material is needed for the assembly, it checks if stock is available for this assembly. If yes, Beas reserves the stock for this assembly and you do not need to produce it. The system does not check the required material. The temporary reservation uses the defined priority: Minimum Stock, Work order, Sales order and so on. What this means: Beas reserves the material for the work order (line 3) and **not for** the sales order (line 1 or line 2). Right mouse click on line 3 - Origin you can see the defined reserved quantity.  **Filter *Only shortage*** This filter shows all items that need to be ordered or produced, or for which the planned inflow is too late. In this case, assembly “B” would be shown as shortage, as the balance for 4th May is negative.

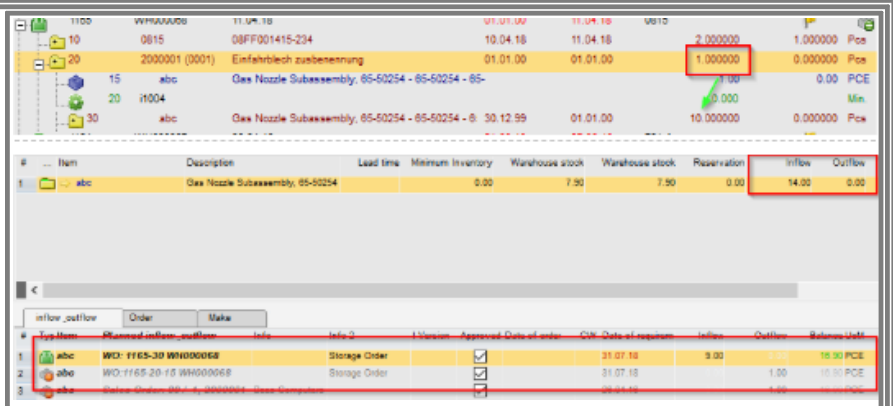
© 2026 Boyum IT Solutions A/S

Field	Description
	The inflow to be used can be specified in **MRP wizard > Detail > Breakdown of resources**.
UoM	Unit of measure
Inflow	Sum of all inflow Planned receipt quantity. Can be (example) - Work order positions - Negative Work order Bill of Materials positions If it is an order-related sub position of a work order, it only appears as neutral quantity (gray). If the quantity is higher than the quantity of the related Bill of materials position, only the quantity higher than the Bill of materials quantity is displayed. ***Example***: Special case for inflow or outflow work order sub-assemblies: work order with order-related sub-assembly (BoM position 10, item abc, covered by work order position 30, item abc) PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button  Bill of materials: 1 Pcs Sub-assembly order related: 1 Pcs Balance is 0, inflow and outflow neutral. This is not visible in inflow or outflow, and in the requirement list it is gray. PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button

© 2026 Boyum IT Solutions A/S

Field	Description
	 However, if you change the quantity from order-related sub-assembly, it changes. The quantity displayed is not for the main assembly but for the stock. PATH: MRP > MRP Wizard > Select a scenario and click the **Order recommendation** button 
Outflow	Sum of all outflow. Sum of all planned outflow can be Sales order, Work order, Pre-Invoice etc. Work order Bill of Material Positions Total open Quantity of Work order Bill of Materials position `(Planned Quantity from BoM Position * Open quantity from Work order position)` If this position is linked to a work order position (order-related item) then Beas checks if the planned open quantity is the same as the current one `open BoM Quantity - Reservation` Follow example

© 2026 Boyum IT Solutions A/S

Field	Description
	 ***Example:*** Bill of materials = 1, but we produce 10 9 is for the stock In Beas only one inflow column is available, but in this case: 1 Pcs = neutrally, 9 = income Beas displays this in the following way: Item list Inflow: Include the quantity of the stock, in this case 9, and increase the inflow quantity from 5 to 14. Requirement list inflow: Do not display neutral quantities and display only the stock related quantity = 9
Supplier	Supplier code
Drawing number	Drawing number stored in planned inflow or outflow Can be transferred to subsequent document and changed. If working with item version control, this is usually the item version number.
New Quantity	Add new quantity. By default, the field loads the quantity defined in the Beas alternative BoM definition (***see*** Type "B" below).
Type	The type of alternative bill of materials: A = SAP type of alternative BoM. B = Beas alternative BoM.
Info	Information stored for the alternative material.

© 2026 Boyum IT Solutions A/S

Field	Description
	- for Type A: The field value is linked to the "Remarks" field of SAP Alternative materials. - for Type B: The field value is linked to the "Info" field of Beas alternative materials editing window.
Qty	It displays the defined quantity. - for Type "A": For SAP items, the quantity considers the SAP "Match factor" that is defined in % in the SAP alternative material definition. - for Type "B": The quantity defined in the Beas alternative BoM definition.

Functions:

Function	Description
Item substitute	Substitute the selected item in the current work order line. **Work flow:** 1. When selecting this option in the right-click menu, the system returns a query and the user can confirm the replacement of the item by answering "Yes". Click "No" to cancel the process. 2. After selecting "Yes", the system returns another query: *'Split BOM? Attention: the quantity per assembly will be replaced by a fixed quantity.'* The system executes two completely different functionalities depending on the answer to this question: • "Yes": The function "splits" the current BoM based on the quantity selected in the Alternative tab, and updates the current BoM line of the WO by reducing the selected quantity and creating a NEW BoM line in the WO with the selected quantity. **Important:** this process sets the "Quantity Per" field of these two lines to Fixed quantity. • "No": The system replaces the item in the BoM with the new Item and the new quantity selected in the Alternative tab. 3. The system displays an additional question to ask if the user wants to reserve quantities of the new material in the WO. To create a reservation, select "Yes".

Window settings are available.

Other Info area tabs:

MRP Current Income

© 2026 Boyum IT Solutions A/S

MRP Price

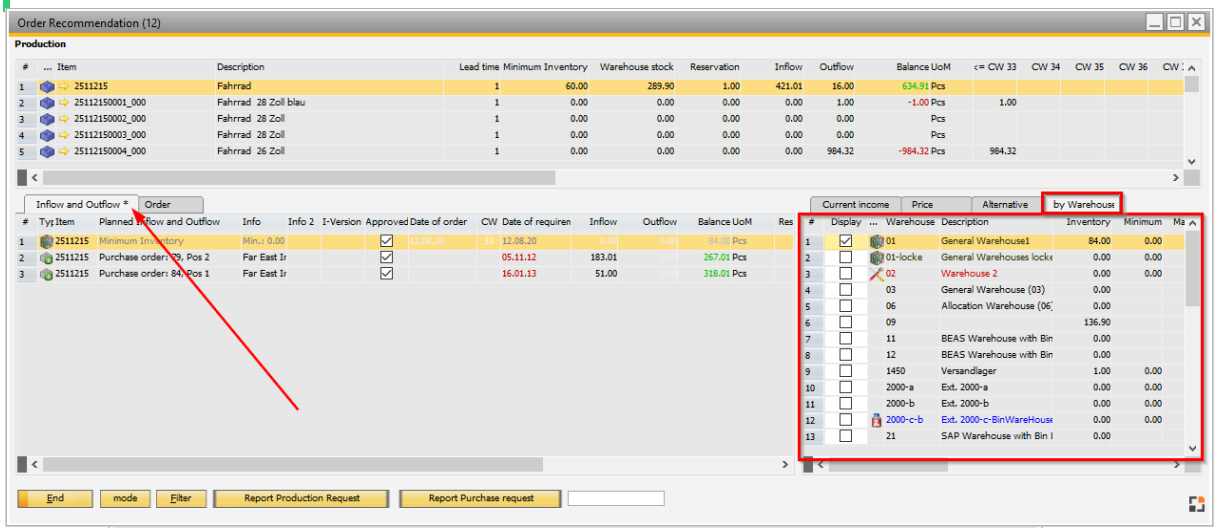
MRP Warehouse

9.2.1.3.4 MRP Warehouse

This tab is only visible for items set as Inventory by warehouse.

The purpose of the tab is to check status of each warehouse and see minimum stock levels. Information can be accessed also when Notify of minimum inventory / warehouse is not active. The displayed information is identical to Inventory data > By Warehouse in the Item master data.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button > right bottom window section



Window mrp_view_masterrahmen.psr

The information in the Inflow and Outflow tab is filtered according to the warehouse(s) selected in the By Warehouse tab.

Note: Beas does not recalculate any other information than the Inflow/Outflow in this tab.

The highlighted top row in the Inflow and Outflow shows the total "Minimum inventory" and the balance as well. Select a warehouse by clicking in the Display field, and an asterisk (*) appears right of the Inflow and Outflow tab name (***see*** image above), indicating that the filtering is done according to warehouses.

Changing the selection in the by Warehouse field automatically changes the balance in the Inflow and Outflow tab.

Attention: Once you select another tab of the window, the filter in this tab is reset.

See the complete function in the following video:

© 2026 Boyum IT Solutions A/S

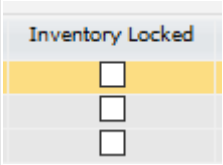
Note: The information displayed in the Tab corresponds to the Real time (and not the MRP calculation).

Item Version: Inventory information is not displayed by I-Version in this tab.

Field descriptions

Field	Description
Display	When active, information in the Inflow and Outflow tab is filtered according to the currently selected warehouse(s).
...	The icon set in the Warehouse master data to represent the Warehouse.
Warehouse	Warehouse code.
Description	Description of the warehouse.
Inventory	Total stock of the item including blocked batches.
Minimum	Input of the minimum warehouse stock quantity for this warehouse.
Maximum	Input of the maximum warehouse stock quantity for this warehouse.
UoM	Unit of measure.
Confirmed	Planned issue for customer orders. No breakdown of sub-components. Calculation according to SAP rules.
Order	Planned receipt from purchase orders. Summation according to SAP rules.
WO Receipt	All planned receipts are displayed without consideration of any settings (blocked work orders etc).
WO Issue	All planned issues are displayed without consideration of any settings (blocked work orders etc). **Important:** all previous postings for this item are considered regardless of which warehouse they were posted from. This works only if the work order was created by Beas without any changes by external programs.
Minimum Purchase Order	Required Purchase Order stock levels. Input of the required inventory levels for this warehouse. Value deposited in purchasing unit, it is supported in order recommendation report, if no minimal stock was entered. The quantity required to reach to the minimum warehouse stock is displayed in the Required (purchasing UoM) field. If the release of warehouse stock under the minimum limit is selected in the document settings, the system issues warnings if the minimum warehouse stock is not reached. The system does not permit further input of inventory

© 2026 Boyum IT Solutions A/S

Field	Description
	documents if the warehouse stock has reached the maximum quantity.
Locked	Inventory is locked on item level. It is related to SAP Business One **> Item Master Data > Inventory Data > field Locked.** Locks the warehouse for the item and prevents you from adding the item from this warehouse to any A/R or A/P document. 
Warehouse Locked	The (non-editable) check box indicates that the warehouse is locked. Related to SAP Business One - Warehouse - Field "Inactive".
Warehouse Type	Type of warehouse (allocation, external, general warehouse etc.) ***See*** Warehouse administration.
User field 1-4	Freely definable user fields. Activate and define a value via customization. For more information visit our BeasScript documentation.

Other info area tabs:

MRP Current Income

MRP Price

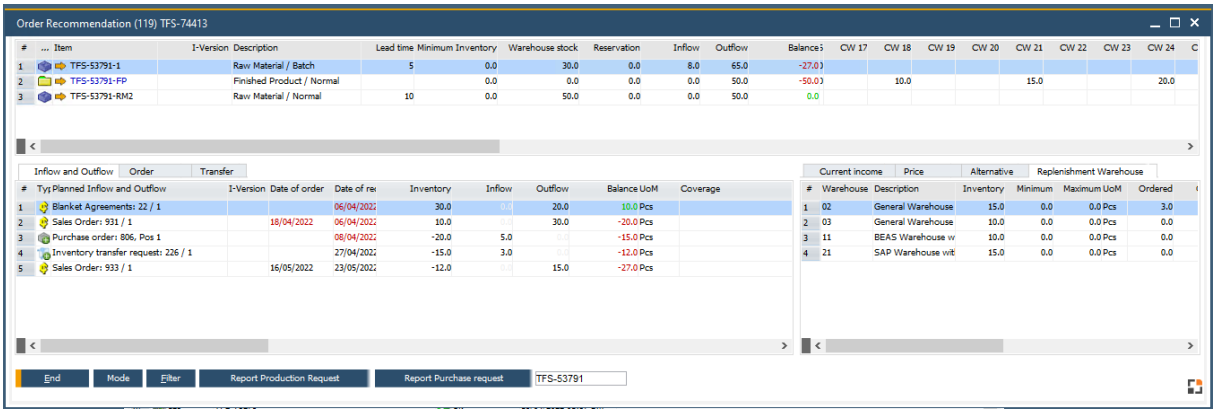
MRP Alternative material

9.2.1.3.5 MRP Replenishment Warehouse

This tab shows information on the selected supplier - replenishment warehouse from which you can create an Inventory transfer request for the selected item.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button > right bottom window section

© 2026 Boyum IT Solutions A/S



Window mrp_view_masterrahmen.psr

Field descriptions:

The displayed information is identical to fields in Item Master Data > Inventory data > By Warehouse and Order recommendation > by Warehouse tab.

See Transfer tab

back to Order recommendation list

9.3 Purchase request (Beas)

Purchase requests can be created from the Order recommendation window, reservation list and other windows. This is the pre-stage to a purchase order or purchase offer.
In the purchase request window requirements are collected, for which no order has yet been created. These can still be changed before an order, a drafted order or an offer is generated.

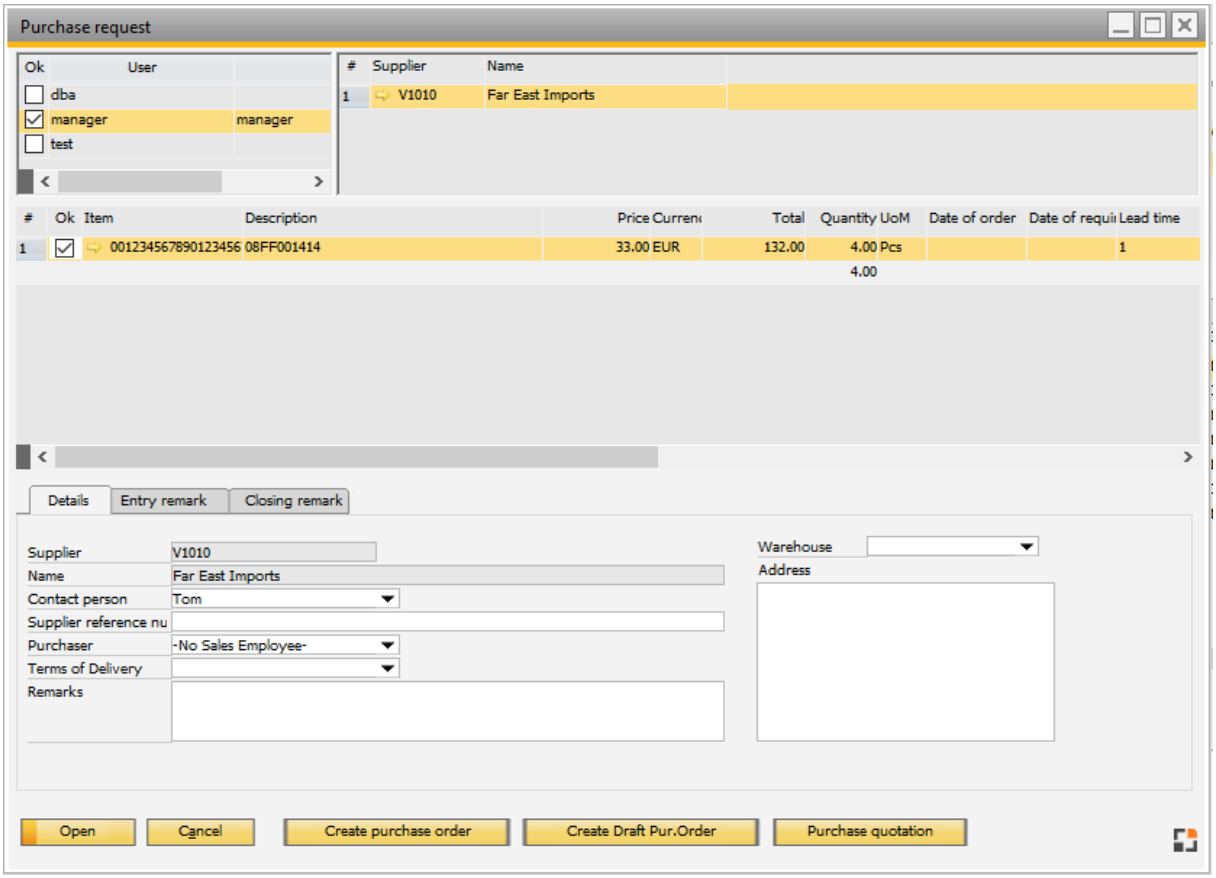
You can create a Beas purchase request or SAP purchase request. This can be defined in Configuration Wizard.
If you make a Purchase Order or Purchase Quotation from the MRP window, Beas creates a Beas purchase request, and the related SAP document automatically.

Call up from: **Materials management > purchase request**

The Beas purchase request variant:

PATH: MRP > Create request button (Buy items).

© 2026 Boyum IT Solutions A/S



Window: mrp_purchase_master

Authorizations

Required rights: Purchase request To create documents full access is required

The purchase request window is divided into three areas:

Up left: User In this area, all users who have created a purchase requests from the MRP run are displayed. If you only want to see purchase requests of specific users, remove the selection in "OK" column and all purchase requests of that user are hidden.

Up right: Supplier In this area, all suppliers are displayed for which there are purchase orders created by the selected user.

Below: mark suppliers to get items shown, for which a purchase request has been created.

Field	Meaning
Item	Item ID
Price	Purchase price

© 2026 Boyum IT Solutions A/S

Total	Total price (Price * Quantity)
Menge	Purchased quantity
Purchase date	Requirement date less lead time
Requirement date	Delivery date less lead time
Lead time	Lead time from item master
Warehouse	Standard item warehouse
Approved	Settings from origin document apply

Lower window section

Details tab

In the Details tab, you can add further information to the purchase request and then create a purchase order or create a drafted document. Click the relevant button to do this.

Field	Meaning
Supplier	Supplier ID
Name	Supplier name
Contact person	Contact person at supplier
Supplier reference number	Optional
Purchaser	Who created the purchase request
Terms of delivery	Select from terms of delivery
Remarks	Free text, remarks are transferred to the SAP Business One document. To enter in rich Text format, enable this feature in window settings.
Warehouse	Target warehouse for purchase
Address	Free text

Entry remarks tab: Enter comments.

Closing remarks tab: Enter comments.

Right-click menu

© 2026 Boyum IT Solutions A/S

Same functions as on buttons below. Additionally: window settings: there the RTF mode can be activated to enter formatted remarks.

Buttons:

Button	Meaning
New	Create a new purchase request.
Delete	Delete the selected purchase request.
Open	Open the selected request for editing, same function as double click on the entry in the list above.
Create purchase order	After a security query, whether to close the purchase request, for the selected entry a purchase order is created, and the SAP Business One document is opened.
Create Draft pur. order	For the selected entry a drafted order is created; in SAP Business One a drafted document is created.
Purchase quotation create	Create a purchase quotation the selected entry After creation, there is a query, to delete the purchase request. If no, you can use this for the next supplier. As in SAP Business One only the supplier, date, item and quantity are transferred, but not the price.
Invent.History	Opens the Inventory history for the selected item.

- Automatically open of created documents

  The program creates the documents but these are not displayed immediately.
  The created document is opened after creation automatically, by inserting the following script:

  Ctrl+N+U, insert script, save, reopen the window

```
windowevent open
setvar=ib_OpenDocument=true
end event
```

  beas 9.2 PL: 04

- Work with UDF, Adjust views

  In this window on row level up to 4 additional fields can be defined (***see*** Configuration wizard).

© 2026 Boyum IT Solutions A/S

Adjust supplier selection

In variable "`is_secondfilter`" an extended filter can be stored. Accessible is only the table "`BEAS_MRP_ORDER`"

Use the UserEvent "windowevent dw2inretrieve" to access variable "ls_sql". It can be modified, e.g. you can determine userfield1 to userfield4. Template fields should not be used here, because these can be set to invisible. Use window settings to rename or set UDF visible or invisible.

Example:

Display "hello world" in userfield 1. Therefore, userfield1-sequence will be replaced.

```
windowevent dw2inretrieve
setvar=ls_replace=cast('' as nvarchar(50)) as userfield1
tools=globalreplace=ls_sql=<ls_replace>='hello world'
end event
```

(*beas 9.1 PL: 07*)

Adjust item list

To adjust the item list, use event dw3initretrieve

Example:

Display "hello world" in userfield 1. Therefore, userfield1-sequence will be replaced.

```
windowevent dw2inretrieve
setvar=ls_replace=cast('' as nvarchar(50)) as userfield1
tools=globalreplace=ls_sql=<ls_replace>='hello world'
end event
```

(*beas 9.1 PL: 07*)

Create a purchase order with more fields

Transfer additional fields to a purchase order is possible only via script. ***See*** Customizations

Creating a PO row, the user-event "insertline" is called up. The object "porder" is available, to which the information can be transferred.

Example:

In rows-UDF U_myfirstfield and U_mysecondfield the content of udf1 and udf2 is to be saved.

Ctrl+N+U (opens the Script-window)

```
windowevent insertline
porder=line=U_myfirstfield=<dw_3.item.beas_mrp_order_udf1.value>
porder=line=U_mysecondfield=<dw_3.item.beas_mrp_order_udf2.value>
end event
```

Close the window and re-open it.

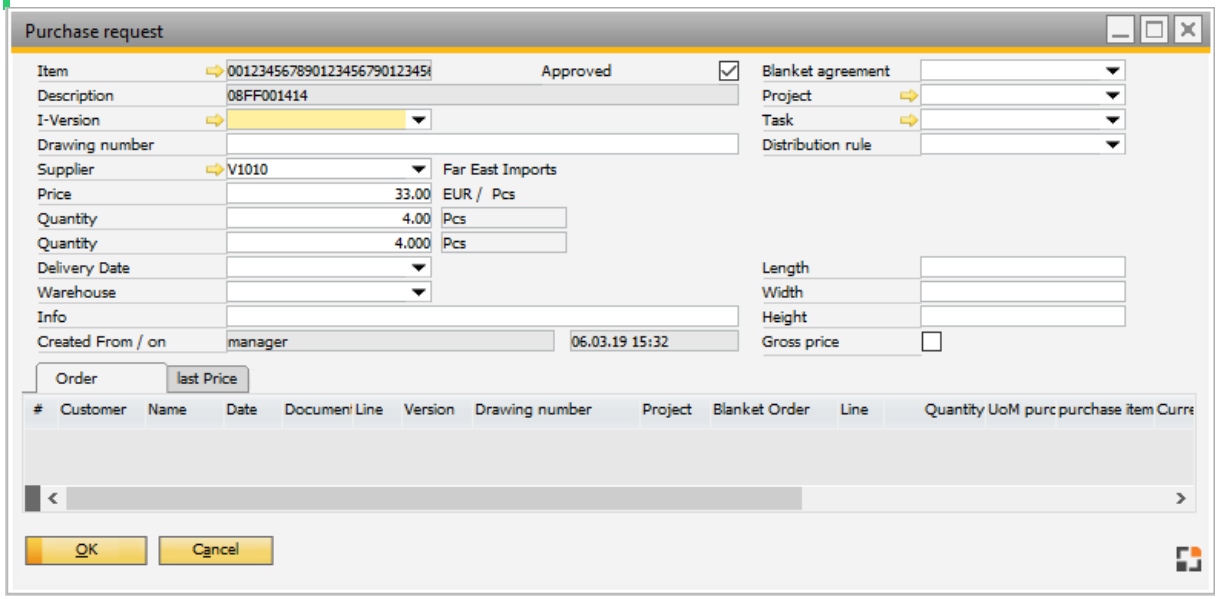
Window: mrp_purchase_master
beas9.0-000-001-004

© 2026 Boyum IT Solutions A/S

9.3.1 Edit purchase request

If a line was selected for editing in a Purchase request, this window opens.

PATH: MRP > MRP Wizard > Select a scenario > click the **Order recommendation** button.



Window mrp_purchase_details.psr

Available fields

Field	Meaning
Item	Select item from the drop-down, or enter item code manually.
Supplier	Supplier of the item for this purchase order. Only valid suppliers are available for selection. Set up selection type in Configuration wizard – Material requirement planning .
I-Version	⊟ Item version If version control was enabled, select item version here. This information is transferred to all documents until the goods receipt. Item version is also indicated for batches and serial numbers. *(beas9.0-000-004-015, beas_mrp_order.u_beas_version)*
Drawing number	⊟ Drawing number Drawing number is saved in purchase order and used in goods receipt.

© 2026 Boyum IT Solutions A/S

	(beas9.0-000-004-015, beas_mrp_order.u_beas_znr)
Blanket agreement	Link to the blanket agreement valid for this order.
Gross price	Gross price.
Quantity	Quantity in purchase units. Unit displayed on the right. NOTE: only the standard purchase unit is supported. Additional units, which may be stored in uom groups are converted to standard unit.
Quantity	Quantity in warehouse units. Unit displayed on the right.
Price	Price from MRP-Pricing. When the quantity or the supplier are modified, the price is recalculated. Note: If the item has no information stored in any SAP price list (special or standard price list), this field is empty, and the currency definition cannot be displayed. If the user sets a manual price in this window, the system applies the business partner currency stored in the SAP document. It is not possible to change the currency manually in this window.
Delivery date	Delivery date of the purchase order.
Warehouse	Desired goods receipt warehouse.
Project	Link to project.
Task	Link to a task.
Distribution rule	Distribution rule from Business Performance. Added to the purchase order in field "Free text" *(por1.FreeTxt)*
Info	Free text.
Length, Width, Height	Additional information on the item.
Created by / on	The creator and date of the document.

Available tabs

- Order

© 2026 Boyum IT Solutions A/S

All purchases created for this item are displayed. The list is dynamically adjustable. ***See*** window settings
List is sorted by document type descending.

- Last prices

All suppliers are shown, for whom a purchase order was created. Additionally:
red: Information from last purchase order for this supplier
green: Current price for this supplier, for this quantity and quantity unit of the last purchase order
blue: Current price for this supplier and for the currently requested quantity and quantity unit

Note: when using pricing per warehouse, always the current goods receipt warehouse is used.

The list is dynamically adjustable. ***See*** window settings
Sorted by supplier number.

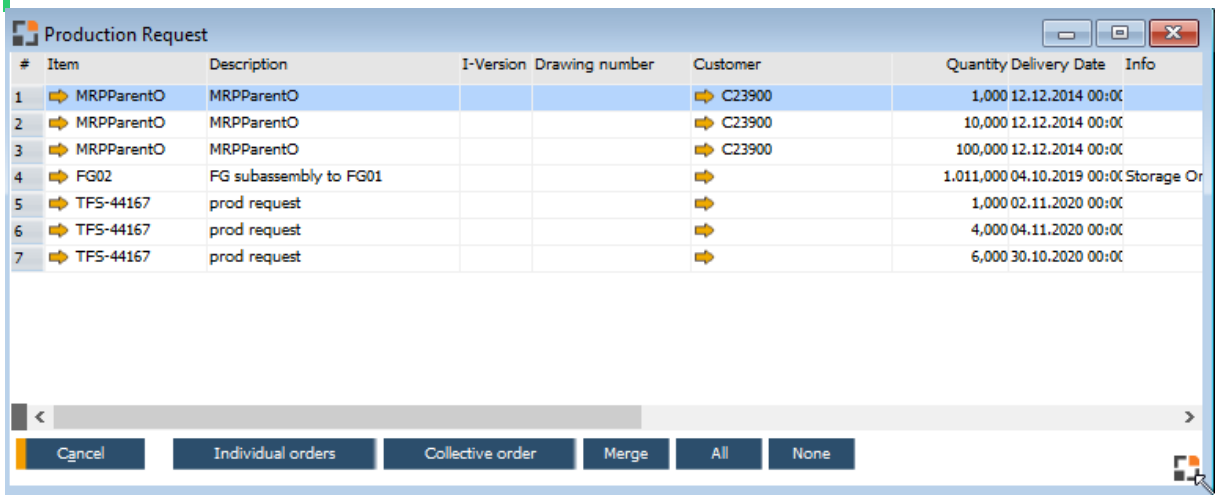
beas9.0-004-000-000

Window: mrp_purchase_details

9.4 Production Request

You can generate work orders from production requests created in the MRP run.
Window settings and Templates are supported.

PATH: MRP > **Create request** button (Make items)..



Window mrp_planed_workorder_browse.psr

© 2026 Boyum IT Solutions A/S

Field	Meaning
OK	Selected for creation or deletion.
Item	Item to be produced.
Designation	Standard item designation (not designation from selected item version).
Customer	For customer (if order-related).
Quantity	Quantity to be produced.
Delivery Date	Desired date of completion.
Info	Further information.
Additional Text	Further additional text.
Project	Project code.
Type	Type.
UDF1...4	User-defined fields.
Variant	Production variant (A..Z).
Configuration	Configuration to be used.

Function	Meaning
Remove	Delete production request.
Individual orders	Create a work order for all selected production requests.
Collective Order	⊟ Create a collective work order for all selected work orders. Create one work order for all marked lines, and for every marked line a separate work order position. In work order header, the system writes link information from the first position (example customer name), but the positions are linked to the correct sales order.
Merge	⊟ Combine all requirements into one work order For more information ***see*** Merge. **Attention:** Linking e.g. to sales order or reserved invoices disappears when merging. No receipt reservation or linking is generated. Use only for warehouse-related production.

© 2026 Boyum IT Solutions A/S

All	Select all work orders ("OK" column is set).
None	Deselect all work orders (selection in "OK" column is removed).

back to order recommendation view

9.4.1 Merge

With a collective production order several different assemblies can be combined into one work order. This simplifies and shortens the creation of work orders, and the cost analysis is restricted to the complete work order.

Conditions for merging

The structure of the work sequences must be the same, and the work sequence numbers with the appropriate resources must match. Job times may differ. These are summed as fixed times (time per=0) and entered. As setup time, the largest set-up time of all assemblies is used. Phantom assemblies can also be used.

Routing position numbers need to be unique, because they are not renumbered. Position numbers in operation sequences of sub-assemblies may not overlap with the position numbers of the superordinate assembly. If this happens, existing entries are overwritten and times are summed up.

The production order is created here as follows:

First position: In the first assembly position no assembly is stored, but all the accumulated work sequences and Bill of materials items. All time receipt and material reports are submitted to this position.

Following positions: Each item which was chosen for the collective work order is inserted as a separate item. These assemblies have no BoM items and no routing. To these position the postings of the assemblies are made.

Example:

Assembly 1:

Pos 10	1x C001	
Pos 20	2x C002	
Op. sequ. 10	Resource 1000	10 mins setup time, 5 mins job time
Op. sequ. 20	Resource 2000	5 mins setup time, 1 min job time

Assembly 2:

© 2026 Boyum IT Solutions A/S

Pos 10	1x C001	
Pos 20	1x C003	
Op.sequ. 10	Resource 1000	15 mins setup time, 10 mins job time

After merging there are the following positions:

Document-Pos 10:	Collective order with BoM and routing
Document-Pos 20:	Assembly 1 without BoM and routing
Document-Pos 30:	Assembly 2 without BoM and routing

Document-Pos 10 – Collective order – has the following BoM:

Pos 10	2x C001	
Pos 20	2x C002	
Pos 30	1x C003	
Op.sequ 10	Resource 1000	15 mins setup time, 15 mins job time (entered fix)
Op.sequ. 20	Resource 2000	5 mins setup time, 1 min job time

Restrictions

1. In retrospect, it is not possible to identify what costs are incurred for which assembly. A post-calculation is possible only for the complete work order. "Like manual posting" needs to be selected as valuation method.

see Tip

2. The collective production function is only available when evaluation is performed at standard price or price list. If, for evaluation some kind of "evaluation price" (post calculation price) is set, this function is hidden. The production lot size is not taken into account.

3. Batch or serial number tracing is possible only to a limited extent.

NOTE:

If in Configuration wizard > Production > Valuation and posting of assembly >Valuation anything else than "like manual posting" was set up, a special production type is required for this work order, as any other valuation method is not supported. ***See*** Administration > Definition > Production > Production type > Valuation

LIMITATION:

© 2026 Boyum IT Solutions A/S

With Tool administration > "Defines lead time" you can set the times to be inserted in the tool as the lead time for the operation.
This setting will be ignored when different items are merged to one Work Order. Consequently, it is always the times that are stored in the operation that are considered by the system, even if the "Defines lead time" parameter in the tool administration is set to active.

see

Collective post in

Customer order to work order

Order recommendation overview

Edit BoM: Quantity

back to Order recommendation overview

9.5 Forecasts

In many cases, production companies receive sales orders on short notice. However, the production process might take long. As a result, it is common for these companies to plan their purchasing and production in advance, even before they receive actual sales orders. This is the goal of a forecast. A forecast is designed to serve as an additional requirement. Therefore, the goods are produced based on the forecast, and when the actual sales orders are received, the company is able to supply the order quickly.

For additional information, please refer to SAP Business One-documentation:

Beas provides additional features for forecasts.

- Any number of forecasts can be taken into account by MRP.
- Various computation methods are available.
- A warehouse can be stored in a forecast, which is useful if you have multiple locations.
- A requirement list can be stored (MPS).

Planning per variant or configuration

SAP Business One - warehouse management allows only management per item. Order scheduling works order related. That is why it is impossible to plan per variants or configurations.

A requirement of a variant or configuration is always order-related. To have a more detailed view in forecasts, please create variants as separate items.

© 2026 Boyum IT Solutions A/S

- Warehouse definitions

Attention: From SAP Business One 9.2 the warehouse definition of SAP Business One is used. A UDF Field "Warehouse" has been added for older versions. This has no function for the current versions.

For *Beas 9.1* and older:

In SAP-UDF-Field "warehouse" (accessible via **View > UDF**) the target warehouse can be stored. This can affect:

- Which forecast is considered,
- Price determination (in case of pricing per warehouse)
- Which variant is used (in case of variants stored per warehouse)

If you do not define a warehouse, the default warehouse according to the item master is used. If no warehouse was defined, the settings of **System initialization > General settings > Warehouse - Item** are used.

See:

Configuration wizard – Forecasts

Planning scenarios – Planning

Plannings scenarios – Detail – Forecasts

MPS

© 2026 Boyum IT Solutions A/S

10 Service

Maintenance module for internal and external maintenance

Internal and external maintenance
Maintenance orders

10.1 Internal and external maintenance

Internal and external maintenance
Maintenance list
Master data
Maintenance plan
Maintenance orders
Components
History
Maintenance orders

Maintenance module for internal and external maintenance.

The following objects can be administrated:
- Resources
- Tool
- Serial number related items
- Customer equipment

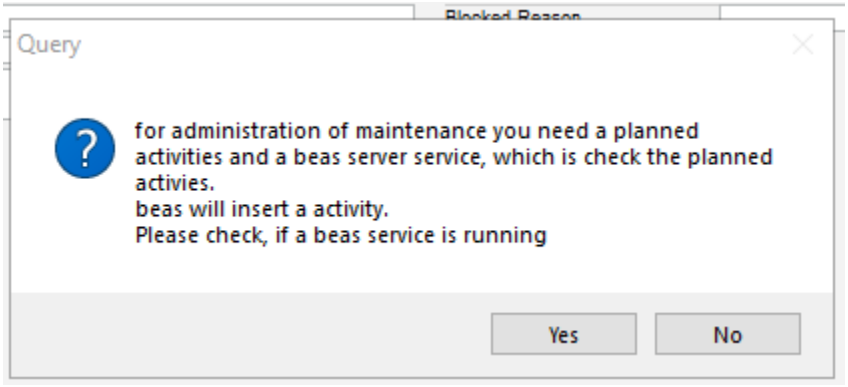
The maintenance module includes the following functions:
- Create a maintenance document
- Create a maintenance plan
- Edit maintenance orders
- Administrate components (e.g. Items of a machine)
- Document administration
- Create planned interruptions
- Create time reservations during the interruption, which affect the APS

© 2026 Boyum IT Solutions A/S

Available work-flows:
- Administration of internal / external maintenance, creating maintenance orders via defined maintenance cycles
- In Resource / Tool: direct administration of maintenance orders, direct creation of maintenance orders
- Interruption Messages (incidents): creating maintenance orders including production repair orders, activities etc.
- Creating maintenance orders automatically at the moment the lifetime of a component or tool expires (hours or pieces)

Needed Service:

The maintenance needs a service which creates all necessary documents in a defined time.
If you create the first maintenance plan, you will see the following message:



This creates a planned activity in Beas server management.
A service for planned activities must be active.

Webinar Internal Maintenance 11/2016

Work with Interruption 11/2016

10.1.1 Maintenance (list)

Internal and external maintenance

Maintenance list

Master data

Maintenance plan

Maintenance orders

Components

© 2026 Boyum IT Solutions A/S

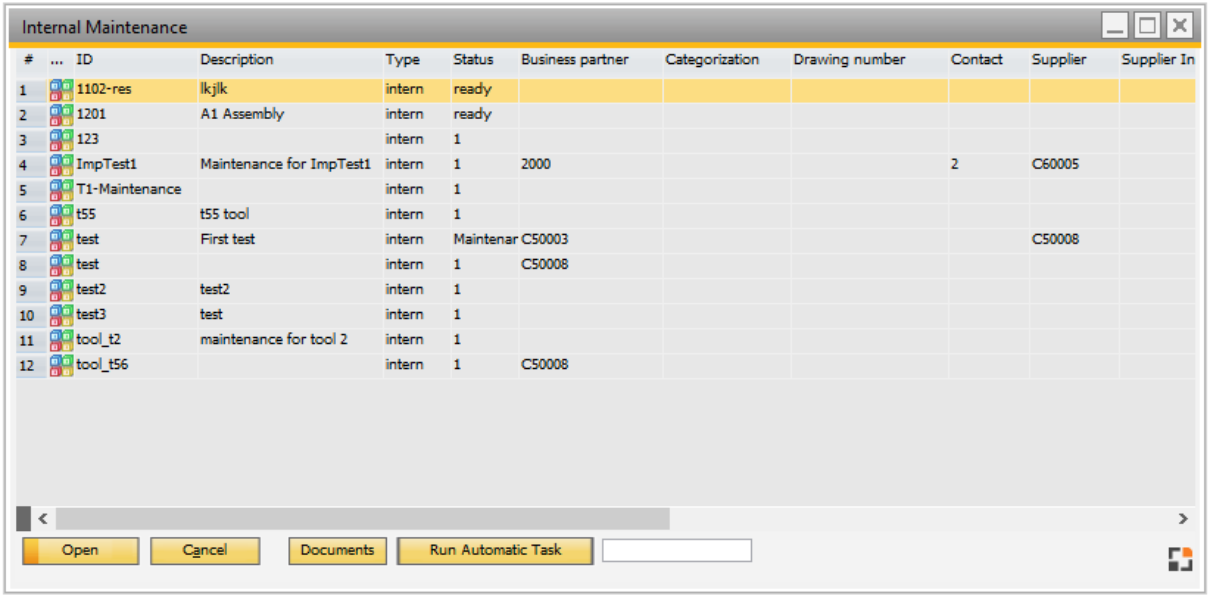
History

Maintenance orders

Maintenance documents (List) for internal and external maintenance

This list displays all maintenance documents. Window settings and templates are supported and entries can be created, edited or deleted.

PATH: Service > Internal maintenance.



Window maintenance_browse.psr

Functions:

Function	Description
Add	Add new maintenance order.
Remove	Delete selected maintenance order.
Change Log	Open Change log for the selected maintenance order.
Duplicate	Create a duplicate entry for the master data header and Maintenance plan details of the selected maintenance order.
Documents	Open attached documents list.
Run Automatic Task	Check service call for automatic task.

© 2026 Boyum IT Solutions A/S

For field descriptions ***see*** Master data edit.

10.1.1.1 Master data edit

Internal and external maintenance

Maintenance list

Master data

Maintenance plan

Maintenance orders

Components

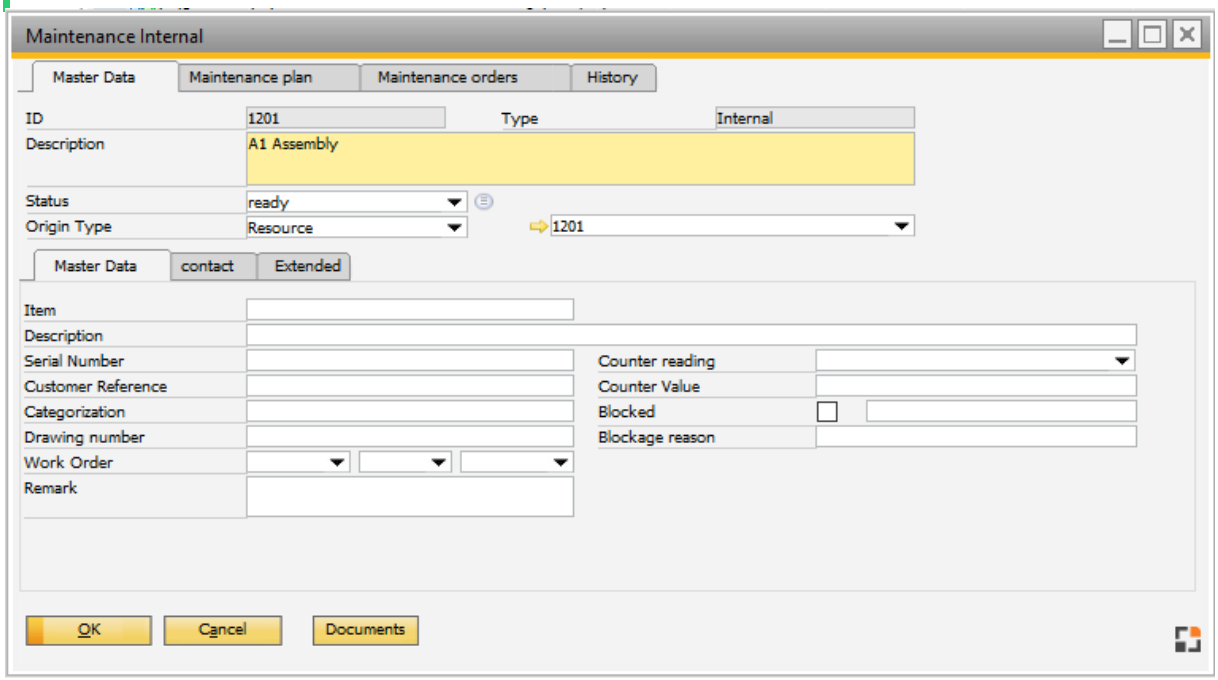
History

Maintenance orders

The master data for a maintenance can be defined here.

The authorization: **Maintenance administration** is required.

PATH: Service > Internal maintenance > **Open / Add**.



Window maintenance_edit.psr

Functions

© 2026 Boyum IT Solutions A/S

Function	Description
Change log	Open the Change log.
Documents	Open attached documents list.
Duplicate	Create a duplicate entry for the master data header and Maintenance plan details of the selected maintenance order.
Check Automatic Task	Check service call for automatic task.
Remove	Remove selected maintenance order.

Field description

Field	Description
ID	Unique ID.
Type	Internal or external maintenance. Field not changeable.
Description	Description of the origin object.
Status	Status of the entry. Own status types can be defined. Only for information.
Origin Type	Define the object type: • Tool • Resource • Serial number • Customer equipment Selecting the group in the Origin Type field determines the drop-down content of the entry field to the right which then lists the entries of the group.

Master data tab

Field	Description
Item	Item linked to origin type.
Description	Description of the origin object.
Serial number	(If determinable). If not, the serial number can also be entered manually.
Customer reference	Reference number of the customer.
Classification	The classification. No further functionality.

© 2026 Boyum IT Solutions A/S

Drawing number	Drawing number of the maintenance object.
WO	Linked work order. Here it is possible to define the Work Order via which the maintenance object was produced. Load the work order under the components tab. For this a copy will be created. Part changes can be run and a history can be created then via "Components"
Counter reading	Date of the last meter reading.
Counter value	Current count.
Blocked	Maintenance is blocked. No view in list "Maintenance orders"
Blocked reason	Blocking reason.
UDF1 ...4	Free available fields.

Contact tab

Field	Meaning
Business partner	Maintenance provided for the indicated business partner. Only with a business partner indicated, you can create activities or maintenance orders. If not, these options are hidden. If it is necessary for internal maintenance activities, set up a business partner representing your own company.
Contact	Contact person.
Supplier	Supplier of the object, for resources: the supplier of the resource.
Supplier information	Additional information about the supplier.
Location contact address telephone	At external maintenance: Location, contact, telephone and address of the object.

Extended tab

Field	Meaning

© 2026 Boyum IT Solutions A/S

Color	Color of the entry in the list.
Image	Icon shown in the list.

10.1.1.2 Maintenance plan

Internal and external maintenance
Maintenance list
Master data
Maintenance plan
Maintenance orders
Components
History
Maintenance orders

Maintenance plans can be edited and created in the second tab of the Internal Maintenance window. Furthermore, maintenance orders are created or the creation can be defined here. You can define fix maintenance plans (***see*** Planning) or define a time / quantity depending maintenance (***see*** Counter).

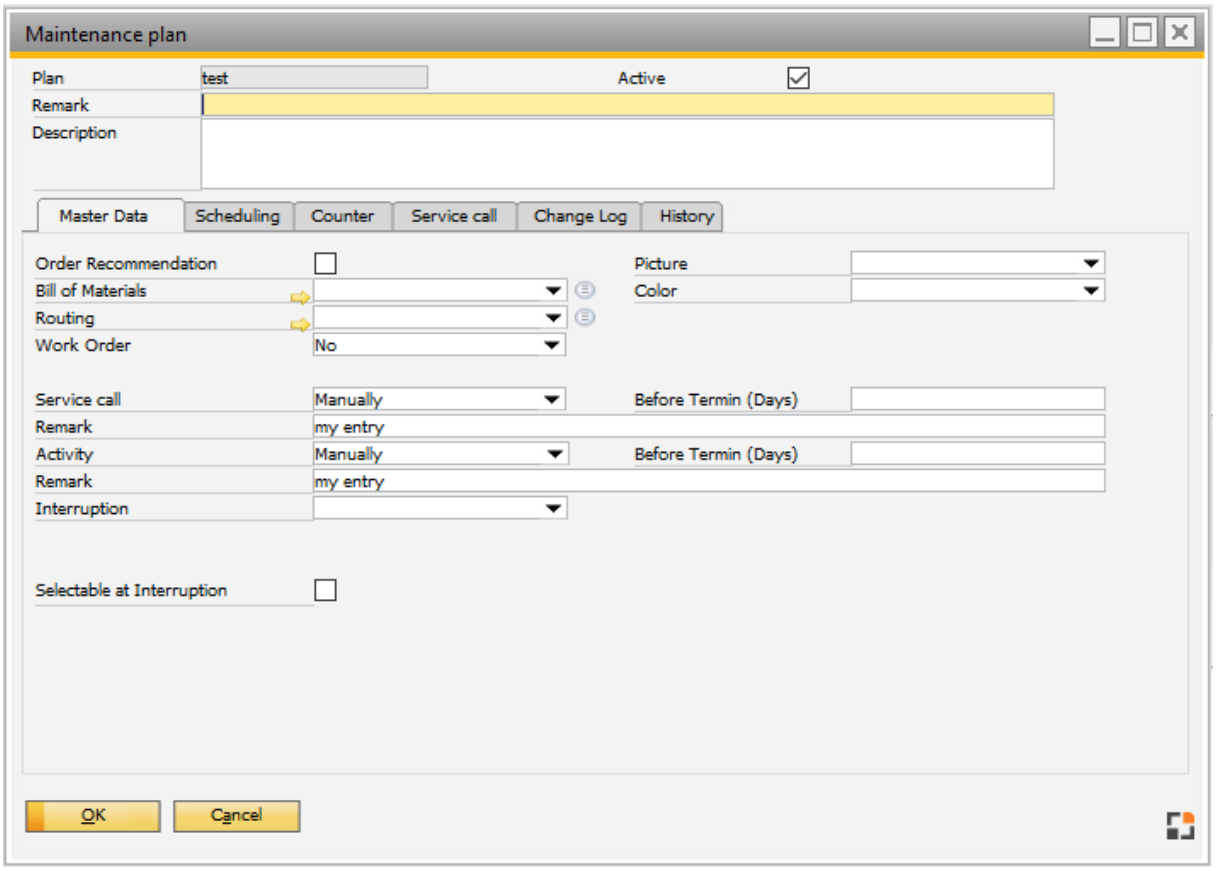
Window maintenance_plan_browse.psr

Functions

Function	Description
Change log	Open the Change log.
Open/Add	Open selected /add new maintenance plan.
Duplicate	Create a duplicate entry for the master data header and Maintenance plan details of the selected maintenance order.
Window settings	Open Window settings.
Remove	Remove selected maintenance order.

PATH: Service > Internal maintenance > **Open / Add** > "Maintenance plan" tab > **Open / Add**.

© 2026 Boyum IT Solutions A/S



Window maintenance_plan_edit.psr

Header

Field	Meaning
Plan	Unique ID of the maintenance plan.
Remark	Remark, designation for the maintenance plan.
Description	Description of the maintenance plan.
Active	Maintenance plan active? No more maintenance orders will be created if the maintenance plan is inactive.

***See* Functions** above.

Tabs:

- **Master data**

Field	Meaning

© 2026 Boyum IT Solutions A/S

BoM	Define the material, which is required for the maintenance. This is used for the material requirement planning and also for the WO creation. The BoM be can be defined without a connection to an assembly and can be linked here.
Routing	The routing to be used.
Order recommendation	When active, the BoM is considered for every existing maintenance order in the order recommendation report if the maintenance orders must be considered according to the scenario settings. Once the work order has been created for the maintenance order, the requirement is determined from the created work order.
Work order Before date (Days) Assembly Production type	Define whether or not to create a work order. Expenses (Material, work hours and other costs) can be registered via work orders. This option is to manage the creation of work orders. **Automatic:** X days before the given date a work order will be created automatically depending on the maintenance order. The number of calendar days is defined in the field "Before date". Note: You need a running service for this. ***See*** Maintenance > Service. **Manual:** It is possible to create the work order manually in the maintenance order. **No:** No work order can be created. To create the work order, the assembly defined in the field "Assembly" is used with the BoM and routing which were defined in the respective fields.

© 2026 Boyum IT Solutions A/S

	The Production type is set according to the respective field, as well.
Service call Before date (Days) Remark	Define if a service call must be created. Note: Visible only if in business partner was stored in Maintenance master data. A service call can be created with a maintenance order. There is also the possibility to register all expenses. **Automatic:** X days before the date a service call will be created automatically depending on the maintenance order. The number of calendar days is defined in the field "Before date". Note: You need a running service for this. ***See*** Maintenance > Service **Manual:** It is possible to create the service manually in the maintenance order. **No:** No service call can be defined. The remark defined in the field "Remark" is inserted in the service call.
Activity Before date (Days) Remark	Define if an activity must be created. Note: Visible only if a business partner was stored in Maintenance master data. An SAP activity can be created with a maintenance order. Then, further actions can be triggered and/or an integration with Outlook can be realized. **Automatic:** X days before the date a SAP activity is created automatically depending on the maintenance

© 2026 Boyum IT Solutions A/S

	order. The number of calendar days is defined in the field "Before date". Note: You need a running service for this. ***See*** Maintenance > Service. **Manual:** There is a possibility to create the service manually in the maintenance order. **No:** No activities can be created. The remark defined in the field "Remark" is inserted in the activity.
Interruption Before date (Days) Interruption reason Remark From / to	Generate an interruption for the respective resource. A planned interruption can be entered here. The resource defined in maintenance master data is used and reserved for the given time area. An interruption is generated and a time reservation. Existing work order are not automatically re-scheduled. This happens at next calculation. **- Automatic:** X days before the date a planned interruption and a time reservation is created automatically depending on the maintenance order. The number of calendar days is defined in the field "Before date".. Note: You need a running service for this. ***See*** Maintenance > Service. **- Manual:** You can create one or multiple interruptions. **- No:** No interruptions can be created. **Interruption reasons:**

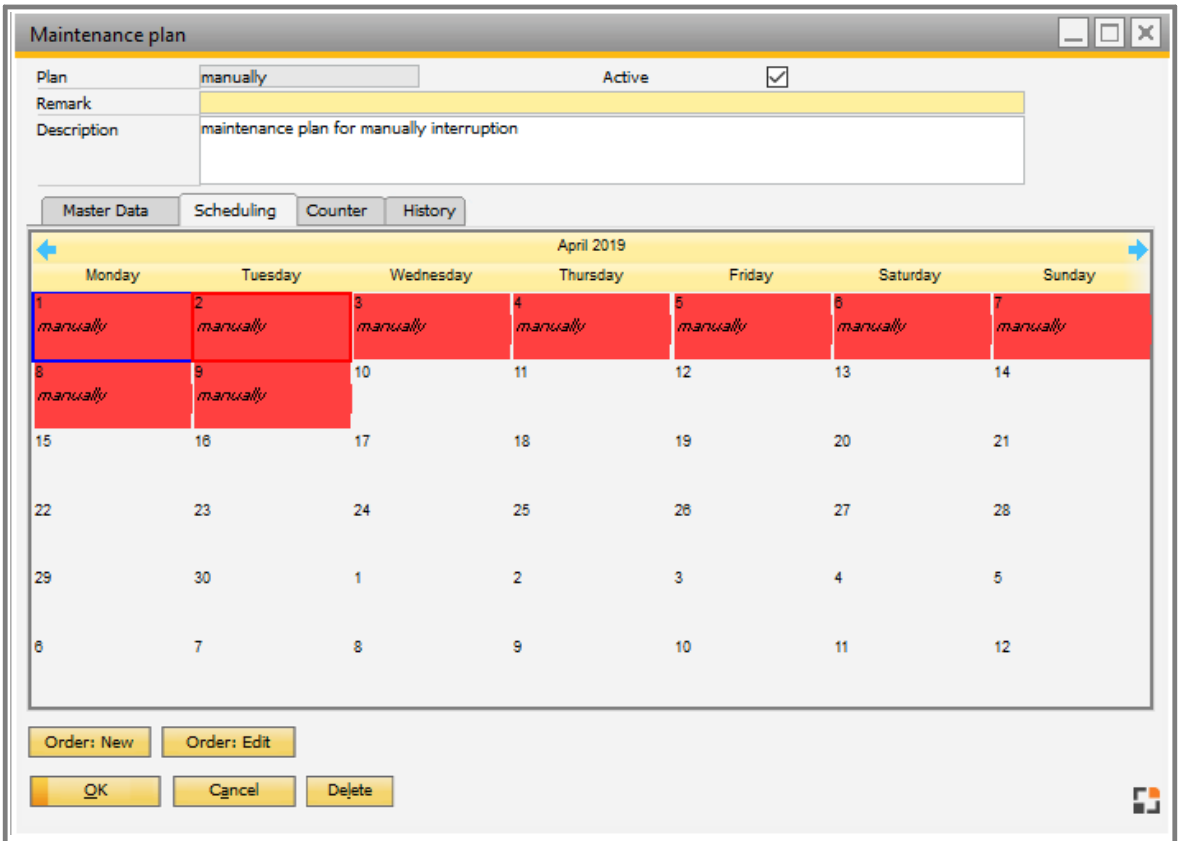
© 2026 Boyum IT Solutions A/S

	Filters can be stored in the interruption reasons. These are not considered here and will also not be checked further at creation. These filters are only considered at manual input of interruptions. You can set a maintenance order to be created upon the entry of an interruption reason in the Interruption reason master data. **Note**: WebApp Start Interruption does not support this.
Selectable at interruption	Selectable at interruption message. If active, this maintenance plan can be selected when an interruption occurs. This function is used if a maintenance order has to be created directly from an interruption message.
Image / color	Icon and color to display the entry.
UDF1..4	Up to 4 UDF's can be defined in the Configuration wizard.

Scheduling

Maintenance orders can be planned, edited or deleted here. The existing maintenance plans can be displayed with different colors in the calendar
Red entry: Maintenance order for this maintenance plan
Green entry: Maintenance order for another maintenance plan

© 2026 Boyum IT Solutions A/S



Window maintenance_plan_edit.psr

Function	Meaning
Order: new	Creation of one or multiple dates: Single or multiple maintenance orders can be created here. A "New appointment" screen is opened for the definition:

Field	Meaning
Remark	Description / Remark for the maintenance order. Will be transferred to the maintenance order.
Plan start	Date, for which a maintenance is to be created. If you activate "Repeat", the date for the time area will be defined, for which maintenance orders have to be created.
Repeat	More fields are available, via which multiple dates can be created, if this option will be activated

© 2026 Boyum IT Solutions A/S

	Plan end: Define the period end, for which recurring maintenance orders are created. Repeat Type: Define the maintenance type: **Day:** In the field "Repeat day" you define the interval in days a maintenance order should be created. **Week:** In the field "Repeat week" you define the interval in weeks a maintenance order should be created. "Monday" to "Friday" will be shown to select the day of the week. **Month**: In the field "Repeat month" you define the interval in months a maintenance order should be created. In the field "Day" you can indicated, on which day the maintenance order has to be created. **Year:** The day in the month, the month itself and the repetition interval in years is indicated.
Date: delete	Delete selected date .
Order: Edit	This button opens the Maintenance order editing window.

Counter

In this tab you can define if the maintenance plan has to be created in dependence of counter readings.
This is only available for resources and tools and together with Beas – factory data capture.

Field	Meaning
Per finished items	All reported yield / scrap quantities are considered which are registered via order time capture. Starting from the count of the last maintenance order. If there is no value, the counter reading is determined from the item master data.

© 2026 Boyum IT Solutions A/S

	If the entered value was exceeded since the last capture date, a maintenance order is created.
Per hours	All order times are considered which are registered via order time capture. Starting from the count of the last maintenance order. If there is no value, the counter reading is determined from the item master data. If the entered value was exceeded since the last capture date, a maintenance order is created.
After max. days	It may be necessary to create a maintenance order before a certain counter reading has been reached. Here you can define, after how many day max. a new maintenance order has to be created. The creation date of the maintenance date is used as reference if no maintenance order was created before.

History

A history of all activities relating to the maintenance plan is displayed in this tab.

10.1.1.3 Components

Internal and external maintenance
Maintenance list
Master data
Maintenance plan
Maintenance orders
Components
History
Maintenance orders

The components of the maintenance objects (e.g. a machine) can be registered and administrated in this window. The related work order can be updated if the maintenance object itself was produced .

Therefore a simple replacement of the single components is possible. Tracking of component replacements is always available.

© 2026 Boyum IT Solutions A/S

Text lines (titles) can be inserted or components can be displayed with different colors or icons for for a better overview.

The authorization for **Maintenance administration** is necessary.

10.1.1.4 History

Internal and external maintenance
Maintenance list
Master data
Maintenance plan
Maintenance orders
Components
History
Maintenance orders

All activities which were performed for the maintenance object will be displayed in the history. Most of the related documents can be opened directly from here. Window settings and templates are supported.

The authorization for **Maintenance administration** is necessary.

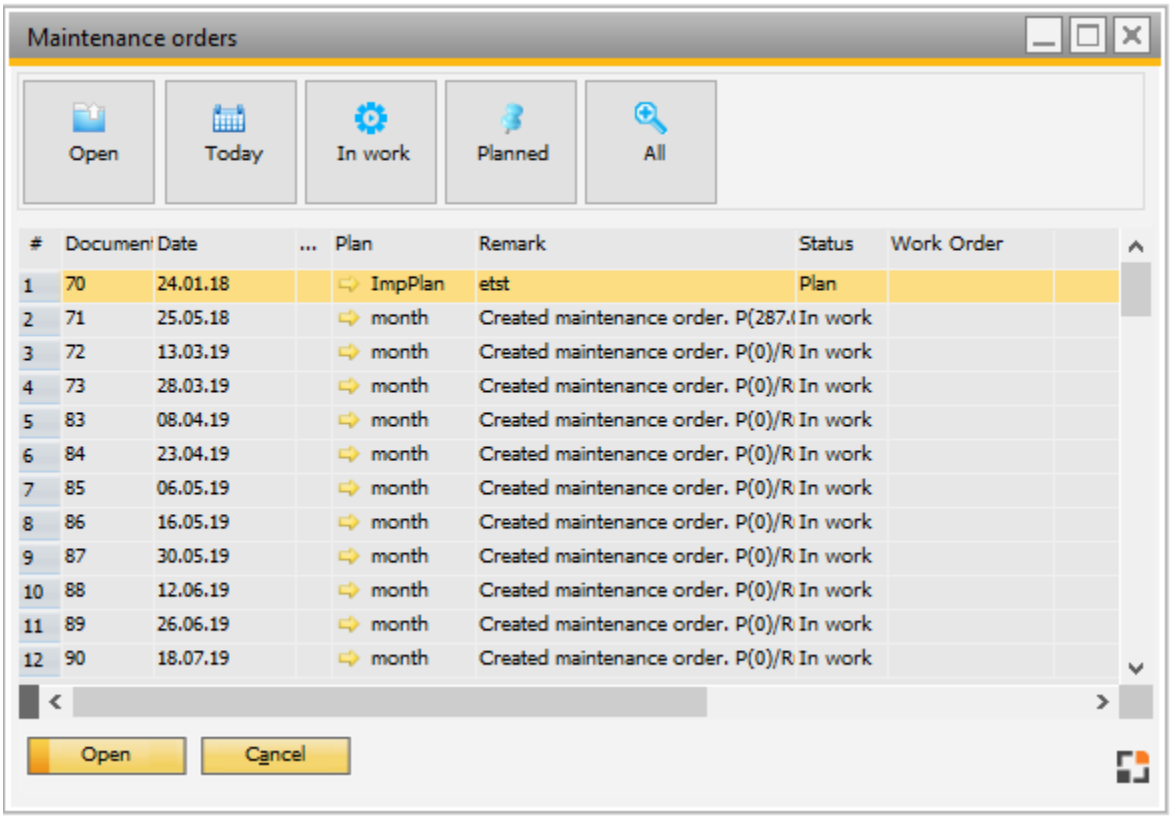
10.2 Maintenance orders

Internal and external maintenance
Maintenance list
Master data
Maintenance plan
Components
History
Maintenance orders
Maintenance order

This window can be used by the service worker.
The worker can see all active maintenance orders, start or stop the orders, and can create time receipts for their activity and a lot more.

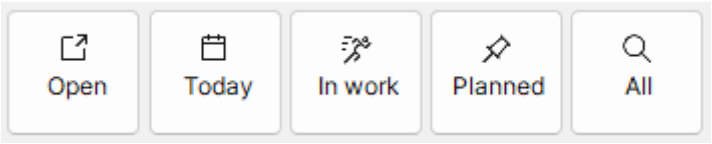
PATH: Service > Maintenance orders.

© 2026 Boyum IT Solutions A/S



Window maintenance_order_browse.psr

Boyum Style button design:



All active maintenance orders will be displayed and managed in this list. Window settings and templates are supported.

The authorization for **Maintenance orders** is necessary.

License: You need the maintenance license or in terminal mode the Production Data Collection License.

- Terminal mode

The window can also be opened via the terminal app: Maintenance order In Terminal the functionality is limited: - Administration tasks are not available - No history from closed maintenance orders (Filter: All)

© 2026 Boyum IT Solutions A/S

- No access to Bill of Materials and Routing Details
- No activity (= SAP Function)
- No service calls (= SAP Function)
- Not possible to open the linked work order
- No History Log

For field descriptions ***see*** Edit maintenance master data, Maintenance plan.

Buttons

Button	Description
Open	Open maintenance order.
Today	All active maintenance orders, which are due today or were already due earlier.
In work	All maintenance orders with status "In work".
Planned	All maintenance orders with status "Planned".
All	All maintenance orders (not in Terminal mode).
Add	Create a new maintenance order (not in Terminal mode).

10.2.1 Maintenance order

Internal and external maintenance

Maintenance list

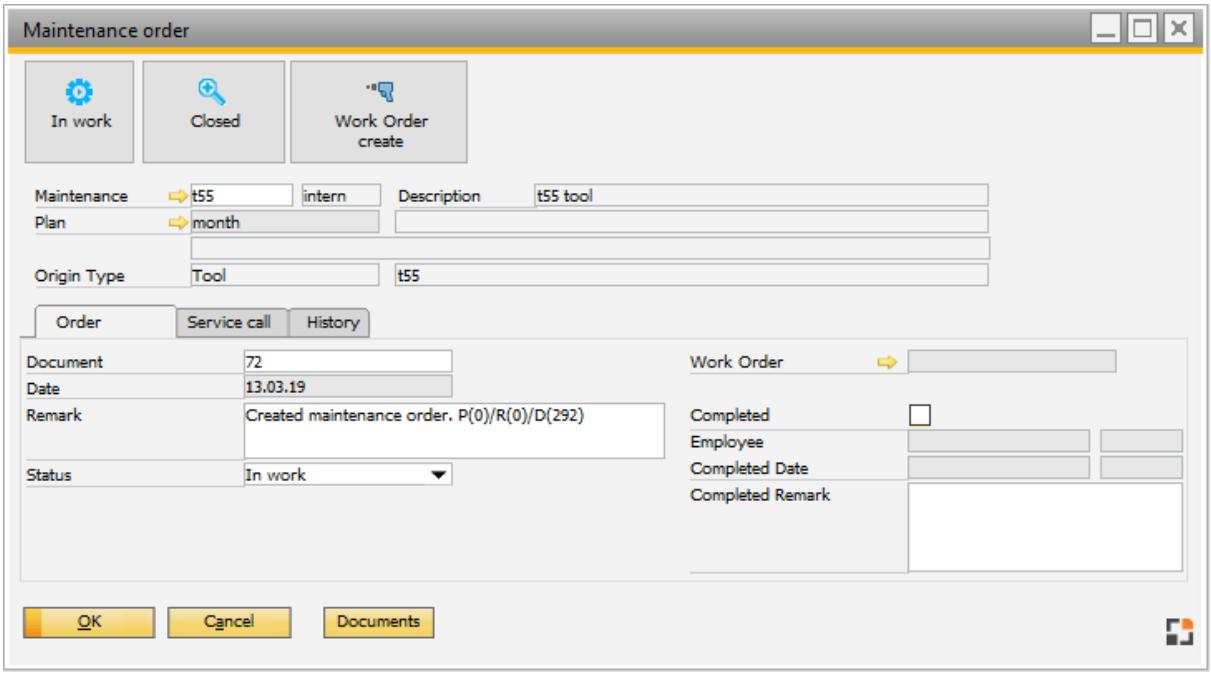
Maintenance orders

Maintenance order

This is the Dashboard for working on a maintenance order.
The worker has access to all functions defined in the maintenance plan
Attention: In Terminal mode the functionality is limited.

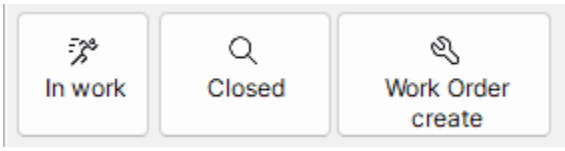
PATH: Service > Maintenance orders > **Open** an entry.

© 2026 Boyum IT Solutions A/S



Window maintenance_plan_dateedit.psr

Boyum Style top bar buttons design:



Field descriptions

Field	Meaning
Plan	Unique ID for the maintenance plan.
Date	Date on which the maintenance is required.
Remark	Freely available remark field.
Status	Status of the order.

Top bar buttons

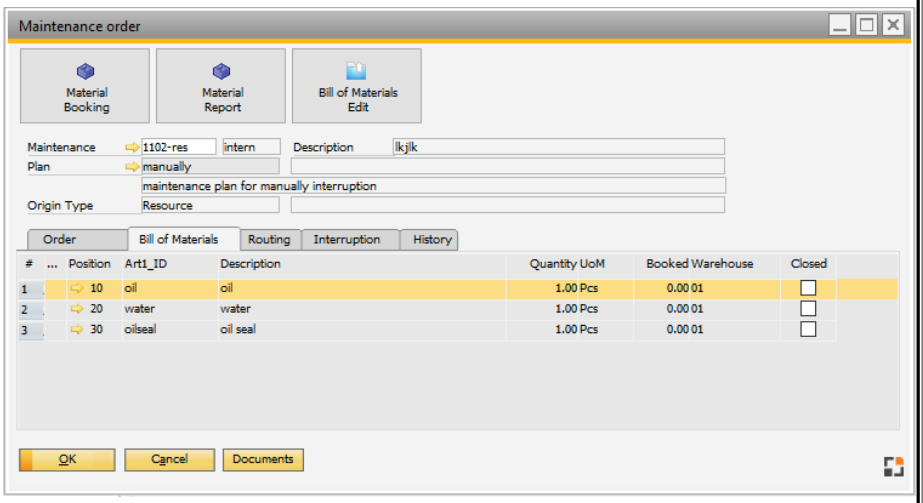
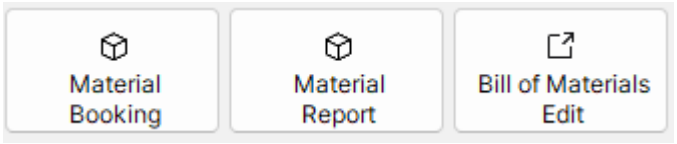
Following functions are available in the maintenance plan depending on the settings:

Function	Meaning
Create work order	A work order can be created here. The settings according to the maintenance plan will be applied.
Create service order	A service order can be created. The settings according to the maintenance plan will be applied.

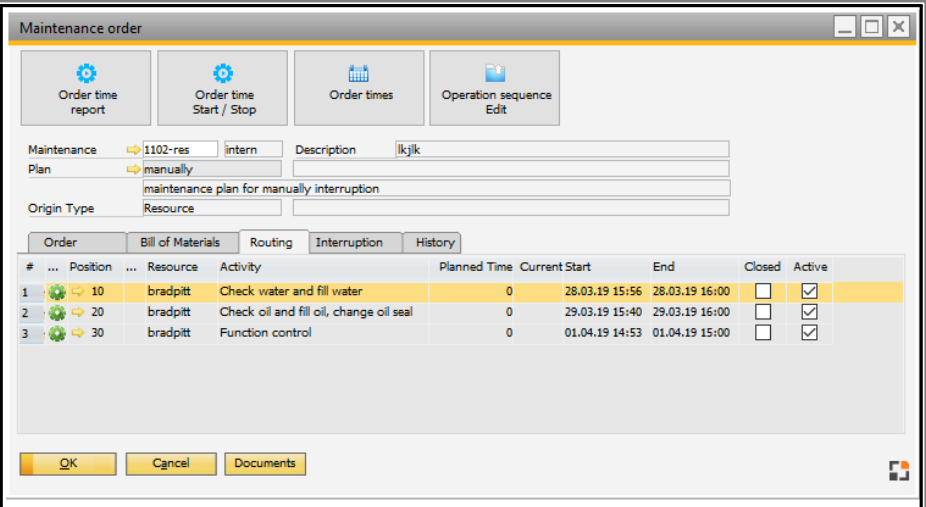
© 2026 Boyum IT Solutions A/S

Documents	View and edit documents stored in the maintenance object. In Terminal mode only the "View" mode is available.

Tabs

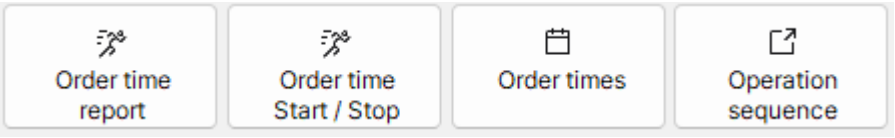
Tab	Meaning
Order	Overview of Maintenance order.
Bill of Materials	All material positions can be viewed in this tab. The Tab is only visible if a work order has been linked and it displays a copy of Bill of Materials list from the linked work order.  *Window maintenance_plan_dateedit.psr* **Boyum Style button design:**  **Material Booking:** Make a post-out for the selected Bill of Materials position. **Material Report:** Collective post-out for all material positions. **Bill of Material Edit:** Edit the Bill of Materials Position in the linked work order. Only visible if you have access rights for Editing a BOM Position.
Routing	All material positions can be viewed in this tab. The Tab is only visible if a work order has been linked and it displays a copy of the Routing plan from the linked work order.

© 2026 Boyum IT Solutions A/S



Window maintenance_plan_dateedit.psr

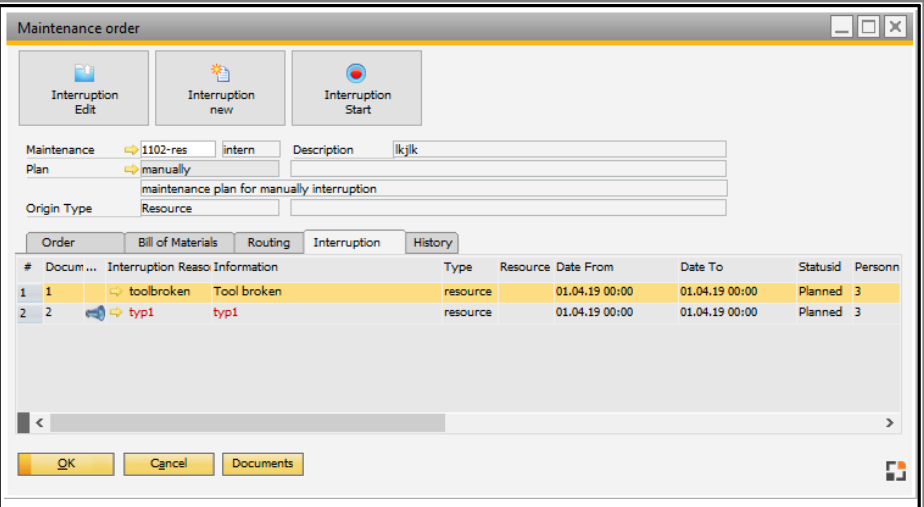
Boyum Style button design:



Order Time report: Report a time request.
Order time start / stop: Start / Stop your activity on the current marked routing position.
Order times: Display all created order times.
Operation sequence edit: Edit routing position from linked work order. Only visible with editing rights.

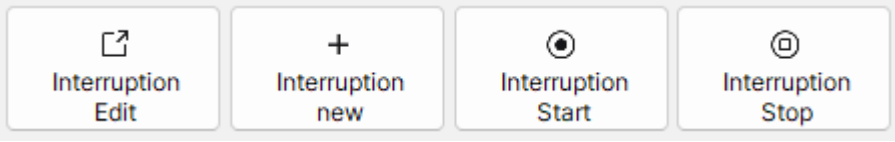
Service Call	Display and edit Service calls. Not visible in terminal mode.
Activity	Display and create SAP Activities. Not visible in terminal mode.
Interruption	Display, Start and Stop interruption. Only visible if this is activated in the maintenance plan definition. You can create and edit interruption. Additionally, you can start and stop planned interruption. While a interruption is active, nobody can start or stop any activity on the linked resource. Running work orders are stopped while interruption is active.

© 2026 Boyum IT Solutions A/S



Window maintenance_plan_dateedit.psr

Boyum Style button design:



Interruption Edit: Opens the interruption editing window.
Interruption New: Create a new interruption.
Interruption Start: Opens the Start Interruption window to document interruption by Type, Resource, ID and Reason.

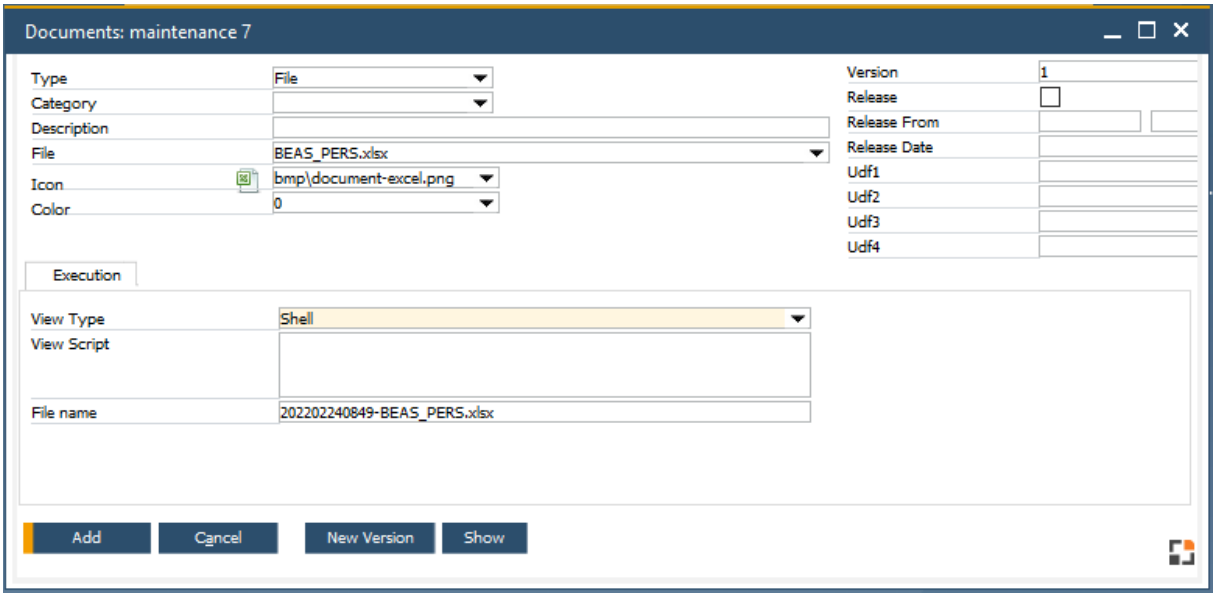
History	Display all activities (change log) for this maintenance order. Not visible in terminal mode.

10.2.1.1 Documents

In this window you can add text or file documents to a maintenance order.

PATH: Service > Maintenance orders > **Open** a Maintenance order > Documents button > **Open/Add** document

© 2026 Boyum IT Solutions A/S



Window documents_edit.psr

Field descriptions

Field	Description
Type	Type of document to add to the maintenance order.
Category	
Description	Mandatory information - to describe the attached file.
File	Browse the file from the explorer that opens.
Icon	Add an icon to the file to appear in the Documents list window.
Color	Add a color to the file name.
Version	Version number of the document.
Release	Select radio box to release the file.
Release from	The name of user releasing the file. Filled automatically once "Release" radio box is selected.
Release Date	Date when the release is made.
UDF 1–4	User defined fields.
Text tab	The tab appears when Type: Text is selected in the Header. RTF is not supported.

© 2026 Boyum IT Solutions A/S

Field	Description
Execution tab	Default tab to manage execution of the attached file.
View type	Select the execution type of the file: - Shell - Text - Bitmap viewer - Script
View Script	In this field you can view the script when the script type was selected.
File name	Name of the attached file.

Buttons

New version: Create a new document version with **right-click > New version**.

Show: Open document.

10.2.2 Create Maintenance order

Internal and external maintenance

Maintenance list

Master data

Maintenance plan

Maintenance order

Components

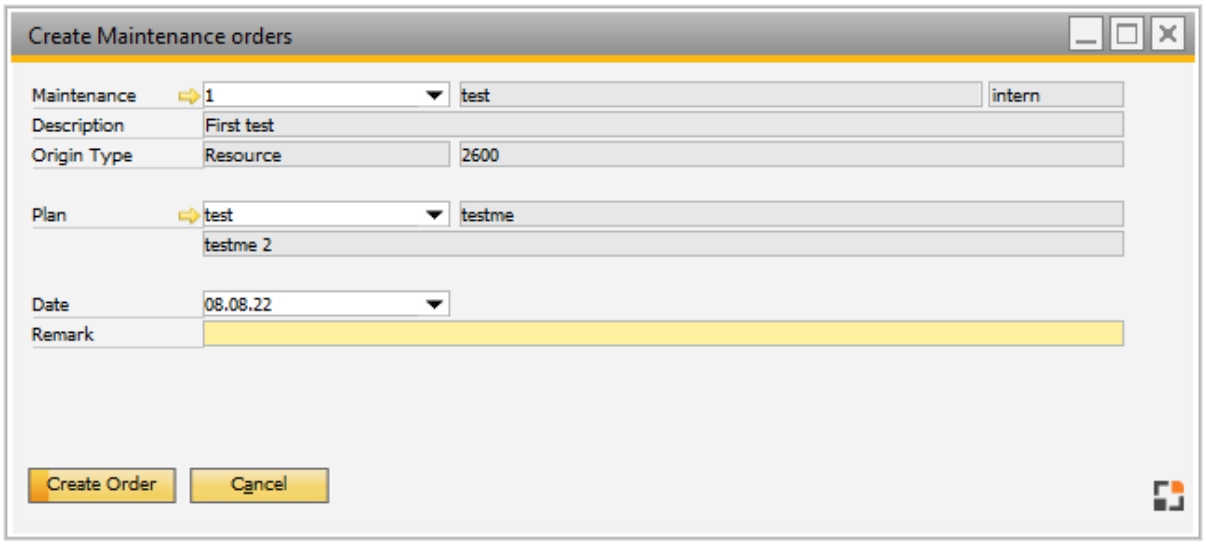
History

Maintenance orders

A maintenance order can be edited here.
Required rights: "Maintenance order".

PATH: Service > Maintenance orders > click **Add**.

© 2026 Boyum IT Solutions A/S



Window maintenance_order_new.psr

Field	Description
Maintenance	Select the specific maintenance definition to be assigned to the maintenance order for the resource. The content of this field is copied from the first maintenance plan from the list. Beas enables the user to change to another plan from the same resource.
Description	Description of the maintenance. This field will be filled by default with the information from the maintenance selected.
Origin Type	Specify the origin type of the maintenance. These types are: tools, resources, serial number, or customer equipment. This fields comes by default with the information from the maintenance selected.
Plan	Define the maintenance plan for the maintenance order to be created.
Date	Specify the date for the maintenance order. By default, Beas inserts the current date.
Remarks	Include additional information for this maintenance order.

The worker can use the function **"Terminal" > Maintenance orders"**

For more information ***see*** Maintenance orders > Maintenance order

© 2026 Boyum IT Solutions A/S

11 Human Resources

Human resources, attendance and absence, as well as the work hours, can be administered here.

Note: The recording of attendance requires the license "Beas App; Time recording, clock in out, Absence"

The administration itself is part of the basic license.

Note: SAP Business One has added an own personnel recording additionally, but which does not include an attendance recording or absence recording. Thus Beas cannot use the SAP Business One. But both of systems are synchronized automatically.

- Overview Human recourse administration

Personnel List
- Monthly quote
- Personnel master data
  - Edit master data
    - Attendance
    - FDC
    - Logon
    - Editing rights
      - Extended settings
  - Shift model
    - Account planning
  - Special shift
  - Attendance
  - Absence
  - Work orders
  - Monthly quota
    - Edit monthly quota
    - Wage types
  - Documents

- Times can be recorded via

Desktop Terminal App Login, Logoff, Logon/off

© 2026 Boyum IT Solutions A/S

WEB Program group "Terminal" Login App and Logoff App
WEB Program group "Time Recording"
Time Recording app

Topics:

- Define work hours and shifts
- Monitor attendance
- Create time evaluations

see

Structure of a shift
Shift scheduling
Calculating a working time
Flexible lunch break
Plan time calculation
Actual time determination
Flextime accounts
Personnel
Time Analysis

11.1 Process information

Presence recording can be set in a very flexible manner. However, this flexibility also implies that handling may get complicated if you are not familiar with the basic possibilities of shift times and period rules. Thus, this section describes some processes separately.

see

Structure of a shift
Shift scheduling
Calculating a working time
Flexible lunch break
Plan time calculation
Actual time determination
Flextime accounts
Personnel
Time Analysis

© 2026 Boyum IT Solutions A/S

11.1.1 Structure of a shift

A shift defines

- Clock in
- Flextime
- Fixed break times (up to 3 breaks per shift)
- Clock out
- Flextime

as well as
- Flexible lunch break
- Hours for the automatic shift detection

A shift may depend on the weekday. For ***example***, there may be a different clock out on Friday than during the period from Monday till Thursday. So-called day templates can be set up for this purpose and assigned in the factory calendar. The following day templates are created by default

Monday till Thursday
Friday
Saturday+Sunday

These are assigned to the corresponding weekdays in the factory calendar.
This means that for each day template, the times (clock in, clock out) must be entered separately.

Tolerances can be defined in addition. These determine how many minutes before working hours the employee may log in.

Entering the day templates:	Daily Schedule
Assignment in the factory calendar:	Factory Calendar
Entering the shift definition:	Shift Definition
Entering tolerances:	Period Rule
Assignment of the shifts and period rules to be used:	Personnel

A shift has the following structure:

```
      Clock in                Core time            Clock out
| Tolerance | Flextime |   Break1 Break2 Break3      | Flextime | Tolerance |
```

© 2026 Boyum IT Solutions A/S

|----------|----------|------||-----||-----||----|----------|----------|

Times outside of these shifts are not considered, i.e. they are cut off.

Flextime

Flextime only has an information function.

Under period rule, there is the additional option to define that the employee can only log on or off during flextime. Flextime is defined in the shift.

Example:

The employees should report for work between 6 and 9 o'clock.

Flextime is defined from 6 to 9 o'clock. 6 o'clock is the earliest clock in.

see

Period Rule

Flexible lunch break

Calculating a working time

11.1.2 Shift determination

Beas supports the following shift systems:

- Fixed allocated shift
- Rotating shift with 2 or 3 shifts
- Automatic shift control
- Automatic shift control with default shifts
- Week-day specific shift allocation
- Manual selection
- Master shift schedule

By default, the shift to be used is stored in the Personnel master.

More settings can be defined in the regular hours.

These are defined in the personnel master under "Regular hours" and can be used for a period to be determined there.

© 2026 Boyum IT Solutions A/S

When checking the shift to be used (takes place during logon when clocking), the following procedure applies:

1. Is a shift schedule available under Personnel – Shift schedule for this day?
   If yes, use it, otherwise:
2. Is a shift definition available under Personnel – Shift model?
   If yes, use it according to the rules defined there
3. Is a shift definition available under Personnel?
   If yes, use it, otherwise issue an error message.

see

Personnel

Shift Definition

11.1.3 Automatic shift determination

Because of the login time, Beas can schedule the shift automatically. The shift definition must therefore determine for which login period is to be used.

Example:

Morning shift: 7-15 h, Detection 4-10 h
Evening shift: 15-20 h, Detection 10-18 h
Night shift: 20-7 h, Detection 18-4 h

It is important that 24 hours are always covered with the detection. If someone logs on at 10:15 h, it is assumed that he wants to log on to the evening shift.
If a person logs on and off for a break, shift detection always refers to the first clock in. This prevents a person from accidentally slipping into a wrong shift. Special scenario:

Different shift models:

In case of different shift models, a definition in personnel is required specifying which shifts should be considered for automatic detection. This is done under Personnel / Shift model where up to 6 shift types can be entered.

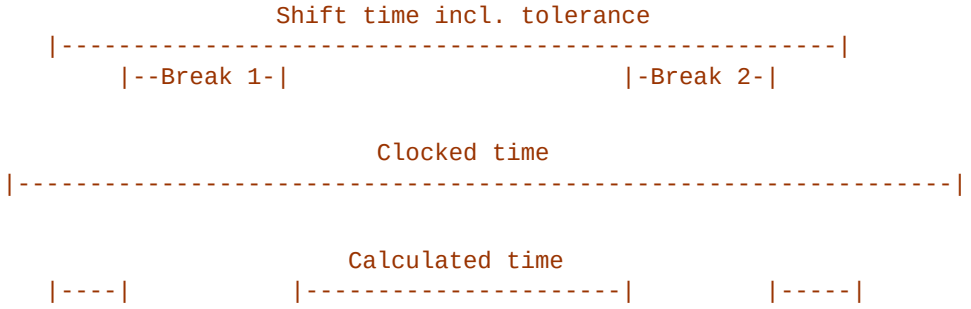
© 2026 Boyum IT Solutions A/S

11.1.4 Calculating a working time

There are two working times:
The clocked working time and the calculated working time

The calculated working time depends on many factors now described here

Structure of a working time



This structure shows that only the time is calculated that lies within the defined shift time and outside of the defined break times.

Example:

Shift time: 7am - 3pm, break from 9:00 to 9:30
Clocked: 6am - 2pm = 8 hours
Calculated from 7am-9am and 9:30am to 2pm
Calculated time: 6:30 hours

see

Shift definition
Structure of a shift

11.1.5 Flexible lunch break

Flexible lunch breaks are used when employees must take a lunch break of a certain length during a certain time range and if they must clock this break manually.

© 2026 Boyum IT Solutions A/S

If employees do not clock a break or if the break is too short, then the difference to the plan lunch break is automatically deducted.

Examples:

Flexible lunch break from 11 to 14 h, length of 30 minutes

Employee logs off at 11:30 and logs on again at 11:45 h.
15 minutes is subtracted for him on this day

Employee does not log off during this time
He gets a deduction of 30 minutes

Employee arrives at 11:30 h and works until 17 h
No break is deducted since he did not arrive until lunch time

Employee logs off from 10:45 until 11:15 and leaves at 16 h
He does not get a deduction since the lunch break is only verified if he is also present during lunch time

Employee logs off from 11:30 until 12:30
He does not get a deduction since his clocked break lasted longer than 30 minutes

Employee arrives at 9 and leaves at 13 h
He does not get a deduction since he leaves during lunch time.

The flexible lunch break is calculated at the moment of time evaluation first. It is not displayed at manual time registration or correction for the current day.

Setup

Flexible lunch breaks are defined in the Shift Definition .
The shift allocation does not depend on an employee's logon/logoff

© 2026 Boyum IT Solutions A/S

To determine the break, the shift that applies to the person on this day is used. If the automatic shift control is activated, the first clocking on this day is used that occurred after 0:01 h.

Example:

Employee logs on and off. Shift allocation "shift1". This shift allocation is changed manually by the office in this time clocking to "shift2". The flexible lunch break verification nonetheless accesses shift1 since this check is done independently of any clockings made.

Notes:
Order clocking does not consider flexible lunch breaks since a "flexible lunch break" is nothing but a subsequent temporary time deduction, meaning that the orders continue to run during the unclocked lunch break.
It should be examined if a fixed break time does not present the better alternative.

see
Shift Definition

11.1.6 Plan time calculation

In a time analysis, planned and actual time are compared.

The actual time is described in the chapter Actual time.

Actual time is in contrast with the plan time.
The difference between the two is allocated to the overtime account.

The plan time per day is stored in the shift that was used (Shift Definition - Working times - Day1).
The shift to be used is determined by Shift scheduling.

The number of hours stored there is multiplied by the percentage specification "Working day" defined for this day in the factory calendar, e.g. 50% on Christmas Eve (24.12.).

This calculation results in the plan time for this day.

© 2026 Boyum IT Solutions A/S

11.1.7 Actual time determination

The actual time is the sum of the calculated working times on the basis of clocking, the manually added presences, and the putility absences.

Actual time of a clocking activity

The actual time of a clocking activity is calculated from the calculated time. Further Information under: Calculating a working time

Special case: If an absence has been entered on the same day and a definition was made to the effect that absences should not be considered, then this actual time is not considered.

Actual time of manual additions

Time additions can be defined manually. The number of minutes is specified.

Actual time of absences

Certain absences count as actual time, e.g. vacation, sickness, etc.
The actual time is defined by the switch "Payment" in the absence type. A percentage statement can be made here again as to how much of the plan time is counted as actual time.

The planned time of an absence type is calculated as follows:

1. Determine the current shift according to Shift scheduling.
2. Determine the plan time according to shift definition taking the day template and factor calendar.
   The first day-hour entry is normally used.
   A definition can be made in absence type under number of hours specifying that the number of hours.
   Number 2 or 3 (defined in the Shift Definition) should be used.
3. This number of hours is multiplied with the work day according to calendar.
   (Normally 100%, but on 24.12., e.g. only 50%)
4. This number of hours is multiplied with the % value specified in absence time under Payment.

© 2026 Boyum IT Solutions A/S

The result is the actual time for this presence.

Special case: If the employee is present on this day and if "Observe presence hours" has been activated in absence type, the actual time is the sum of the presence and absence.

ALTERNATIVE:
A fixed number of hours can also be entered directly. This is not advisable, however. Alternatively, presences can also be entered manually in minutes.

For other settings as well as examples of absence types, ***see*** Absence Types.

11.1.8 Flextime accounts

Beas supports a variety of flextime account systems.

The following rules apply to the calculation of flextime accounts:

Planned Time – Actual Time = Overtime

Overtime (or minus hours) are added to or subtracted from the flextime account.
The sum of overtime is written to the monthly account of the person using time analysis In the following month, the overtime account then refers to the calculated flextime account in the previous month.

In the time analysis, the flextime accounts are shown in detail.

The behavior of the flextime account is set in Period Rule
Two independent accounts as well as an Overflow account .

Disable flextime account
If no flextime account is to be maintained, "-1" must be entered in "Maximum number of hours" in the period rules defined for the person.

Overtime pay
If a certain number of hours is to be paid they may not be included any more in the following month.
Follow this procedure:

© 2026 Boyum IT Solutions A/S

1. Create monthly analysis for the previous month and calculate the monthly numbers accordingly
2. Personnel – Monthly numbers
3. Enter the number of hours considered for the following month for account 1 and 2, respectively, in the column Flextime Account Balance/Current.

Overtime reduction through vacation/time off

If the person is not present, his account is automatically reduced.

If a respective entry should be made preventing the person from being absent without excuse, then an Absence Type can be created in this case and entered for the person and the corresponding area:

Pay: 0%

Sickness, vacation, training: 0%

Number of hours, standard; the remainder is also standard. Observe presence hours.

see

Overflow account

Plan time calculation

Actual time determination

Period Rule

Personnel

Absence Types

11.1.8.1 Overflow account

Overflow accounts are used when a person is allowed to accumulate only a certain number of overtime. If the account is full, the hours above are moved to the overflow account.

Overflow accounts are usually putility out or they expire. They are no longer included in the time analysis of the following month.

The limit of the account is defined in the Period Rule (maximum number of hours).

The max. flextime account limit can be set separately for each flextime account. However, there is only one overflow account.

The accounts are displayed through the time analysis or after the monthly analysis through Personnel – Monthly Quota.

There are 2 types of overflow accounts:

© 2026 Boyum IT Solutions A/S

Daily computation

If the maximum account is exceeded on a particular day, a transfer to the overflow account is made immediately, even if the sum at the end of the month does not match the maximum.

Monthly computation

It is only verified at the end of the month if the maximum account is exceeded. An overflow is permitted during the month.

The behavior is configured under EXTRA – OPTIONS – FDC.

see

Flextime accounts

Period Rule

11.1.8.2 Second flextime account

Two flextime accounts are administered. This can be useful for accounting purposes, for ***example*** if, for a certain period, overtime should be posted differently for business reasons.

Determining the flextime account to which time should be posted is done under Personnel – Regular hours – Account planning. This can be defined with a from-to period, including specification of a reason for the change.

Calculation as well as output are done through the time analysis. The result of the last analysis can be viewed under Personnel – Monthly quota.

Both flextime accounts behave identically and the number of hours of the previous month is considered in the following month.

11.1.9 Overtime Accounts

Overtime accounts can be defined in addition to hourly accounts.
Above a certain number of overtime hours on a day, the hours over this limit are moved to an overtime account.

This is set up in the period rule in the Hourly Surcharge tab
Two accounts each can be defined separately for Saturday, Sunday and Weekdays and the surcharge entered as information.
The accumulated accounts can be output in the time analysis or stored in the month view.

© 2026 Boyum IT Solutions A/S

The hours are totaled if

a) a value > 0 is entered in the second overtime field for both accounts

b) a value > 0 is entered for only one account and 0 entered in the second account

Example:

Entry in period rule:

1. Sunday overtime From 1st hour and from 4th hour

If you work 6 hours on a Sunday and you have a planned work time of 0 hours, 2 hours are added to Sunday overtime account 2 (= number above the 4th hour) and 3 hours are added to Sunday overtime account 1 (= number above the 1st hour minus the hours written to account 2).

2. Sunday overtime Above the 1st hour, no entry in the second account field

If you are present for 6 hours and have a planned work time of 6 hours, 5 hours are written to the first account.

3. Sunday overtime Both accounts 0 hours

No hours are written to an overtime account

4. Sunday overtime First account 0, second account from 4th hour

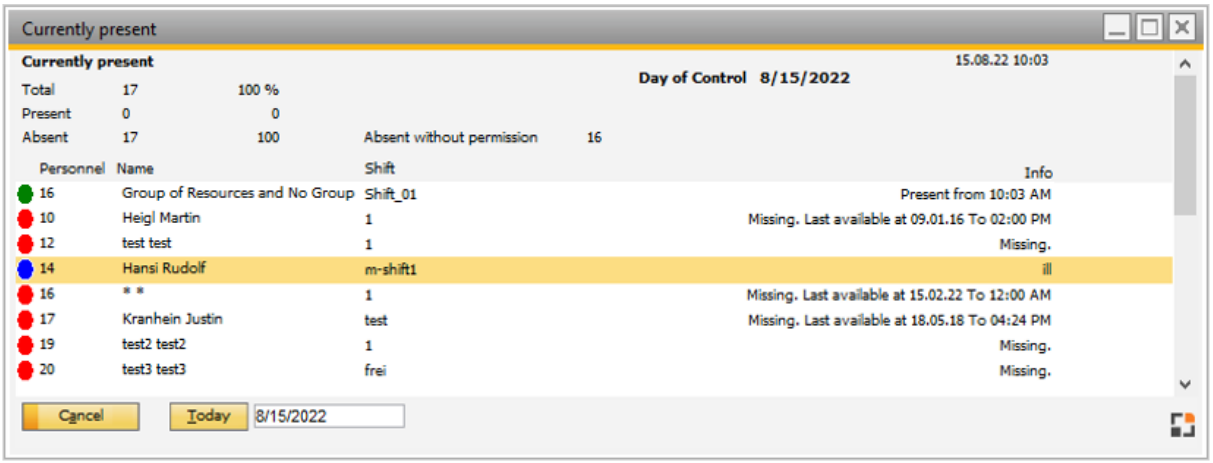
Present 6 hours, planned work time 0 hours: 2 hours to account 2 and 4 hours to account 1, as an account calculation is also calculated from 0 hours if something is entered in the second account.

11.2 Currently present

In this list, the currently present employees are displayed. Furthermore, statistics on the total number of the persons present are available. A presence list can also be displayed for any other day.

PATH: Human Resources > Currently Present.

© 2026 Boyum IT Solutions A/S



Window bde_ anwesenheit_ aktuell.psr

Field	Meaning
Status (colored dot)	Indication of the current status: Green: Present or was present. Blue: Permitted absence (e.g. vacation, sick-leave, etc.). Red: Missing or forgot to clock in.
Personnel	Personnel number.
Name	Name.
Shift	If the person is attendant: the current shift. If absent: the reason.
Info	Last login or logout.

Today: Function sets the date to the current day.
Refresh window: Update the list according to the latest changes.

Time is displayed according to the SAP Business One Client.

back to Human resources

11.3 Personnel

Personnel Master data
Edit Personnel Master data
Attendance
FDC
Login

© 2026 Boyum IT Solutions A/S

- **User rights**
  - **Extended settings**
- **Shift model**
  - **Account planning**
  - **Edit shift model**
  - **Shift Model**
    - **According to week plan**
    - **Rotation**
    - **Automatic shift**
    - **Automatic on default**
    - **Manual**
    - **Extended**
- **Special Shift**
- **Attendance**
  - **Enter attendance time**
- **Absence**
  - **Edit absence**
- **Orders**
- **Monthly quota year/month**
  - **Edit monthly quota**
    - **Edit wage types**
- **Documents**
- **Monthly quota**

List of all employees and their monthly quota in tab Monthly quota. The window can be adjusted dynamically. Templates are supported.
If errors occur (for example forgot to logoff, error in shift determination, incorrect settings) the entry is marked . By double-clicking on the icon or right-clicking the "error check" the protocol is opened. After the message was marked as "read" the red hand icon is removed.

See

Personnel List – available fields
Personnel List – Functions
Personnel – master data

Sorting

© 2026 Boyum IT Solutions A/S

By default, the list is sorted by names. The personnel number is alphanumeric and sorted that way. ***See*** Personnel master data sheet. If automatic personnel numbering was enabled, the list displayed sorted by SAP ID numbers. Change the sorting via right-click, for alphanumeric sorting.

Available fields

Overview on all available fields. Exact description in **Personnel > Master data**.

See

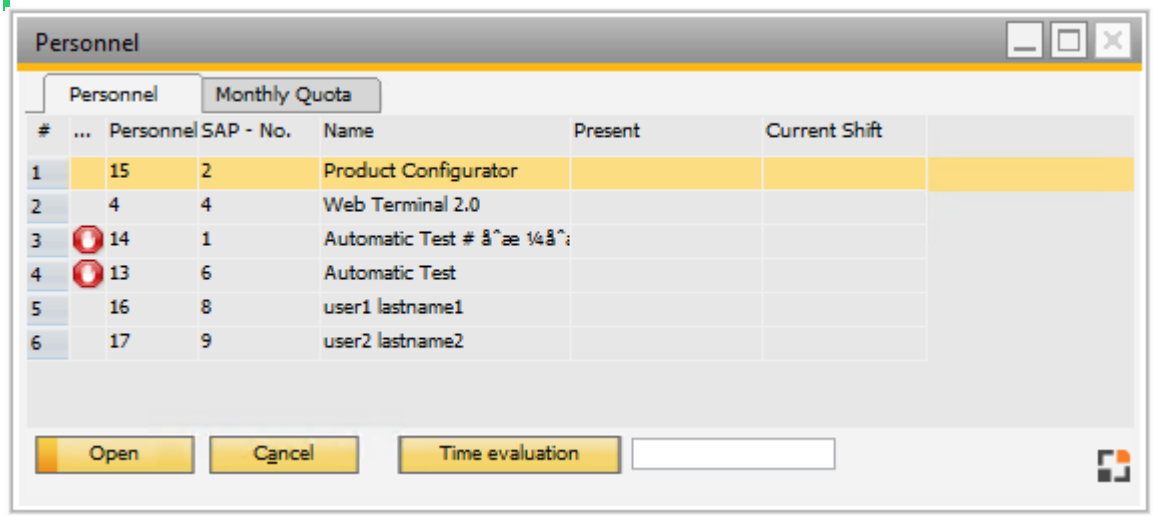
Personnel – Master data

Data selection

Window

Templates

PATH: Human Resources > Personnel.



Window bde_personal_browse.psr

Field descriptions

Field	Description
...	Displays error status. Red halt signal: an error occurred, for example in login (attendance). Use the protocol to ***see*** more details. Measures if the error status cannot be removed. Normally, the error status is reset if all entries have been confirmed. If this is not the case, use the following SQL statement to resolve the problem. `update "BEAS_PERS" set "FLAGERROR"=0 where "PERS_ID"='<personal nummer>'`

© 2026 Boyum IT Solutions A/S

	Example: Personnel number 200 affected: `update "BEAS_PERS" set "FLAGERROR"=0 where "PERS_ID"='200'`
Personnel	Personnel number Unique personnel number. **Note:** sorted alphanumeric, not by number. ***See*** Personnel master data . Configuration wizard - Attendance - Personnel.
SAP-Id	The internal SAP Id Number for this Personnel Entry.
Name	Name. Displayed in gray if the employee is inactive.
Present	Since when has the personnel been present ? If the last login is from the previous day, time and date are displayed in red.
Attendance	Attendance type.
Attendance designation	Designation of attendance type.
Current shift	If present: currently assigned shift.
Cost center	Cost center of this employee.
Personnel group	Personnel group of this employee.

Additional fields (activate via window settings)

Field	Description
Active	Employee active? By default, all inactive employees are hidden and only displayed if searching for them. Names are displayed in gray.
Birth date	Date of birth.
Language	Menu language of this employee for terminal and WEB apps.
Entry date	Date of Hiring.
Leaving date	Date of Leaving.
Annual leave	Total annual leave.
Standard Shift	Standard shift, if no other shift determination applies
Hour rule	Standard hour rule, if no other applies
Employment status	Text field.
Location	Optional information.

© 2026 Boyum IT Solutions A/S

SAP-Id	Personnel number SAP Business One master data ***See*** Personnel – Connection to SAP B1 – personnel master.
UDF1..UDF4	Free definable fields.
Evaluation with report	Standard report for personnel time evaluation.
Use own cost rate	For distribution of costs.
Cost rate	Cost rate.
Resource 1 ... 6	
Cost factor	Cost factor.
Machine grouping	Display if the employe is allowed to use machine grouping.
Work order grouping	Display if the employe is allowed to use work order grouping.
Logon to all operations of all pools	Determines if only operations may be selected from current pool only or from all pools.
Select Resource, Cost center, cost type	Determines which fields are changeable at work order time receipt.
Setup, time type 1 ..3	Determines which time types may be selected.
Remarks	Text field.
Templatefield1... 6	Use for own templates.

Functions

Function	Description
Search	Search for entries.
Open	Open personnel master details. ***See*** Personnel – master data.
Add	New entry.
Remove	Delete entry. With existing attendance entries the person is not deleted, but set to "inactive".
Duplicate	Copy entry.

© 2026 Boyum IT Solutions A/S

Time evaluation	Time evaluation for the current entry. Verifies the attendance and absence of a person. This time analysis also records the vacations and flextime accounts for the following month into the personnel master data.
Window settings	Window settings ***See*** Windows.
Search field	Search for - Display name - Personnel number - Personnel group - Cost center

11.3.1 Personnel Master data

The personnel master data are entered here. These data are needed for presence recording and FDC; they are completely detached from user administration.

Personnel List

Monthly quota

Personnel master data

Edit master data

Shift model Define specific information of the shifts for a certain period.

Account planning for a certain period

Special shift Define special shifts for manual shift determination.

Attendance Register and edit attendance times.

Absence Register and edit absences, vacation and sickness times.

Work orders Register and edit work orders time receipts.

Monthly quota Evaluate monthly values and wage types.

Documents Attach documents.

The visibility of the tabs depends on authorization. ***See*** Editing rights.

- Connection to SAP Personnel master.

SAP Business One – Personnel master was introduced subsequently. Beas has been connected to SAP Business One which means that an employee created in SAP Business One will be automatically inserted in Beas and vice versa.

© 2026 Boyum IT Solutions A/S

Due to downward compatibility, personnel numbers cannot be synchronized, because Beas allows alphanumeric personnel ID, in contrast to SAP Business One. For this reason the Beas – personnel entry consist of two personnel numbers. One manually entered number and one automatically generated SAP Business One – personnel number.

The following fields are synchronized:
First name
Second First name
Surname

- Customization

Example: Insert new fields

back to Personnel
back to Personnel list

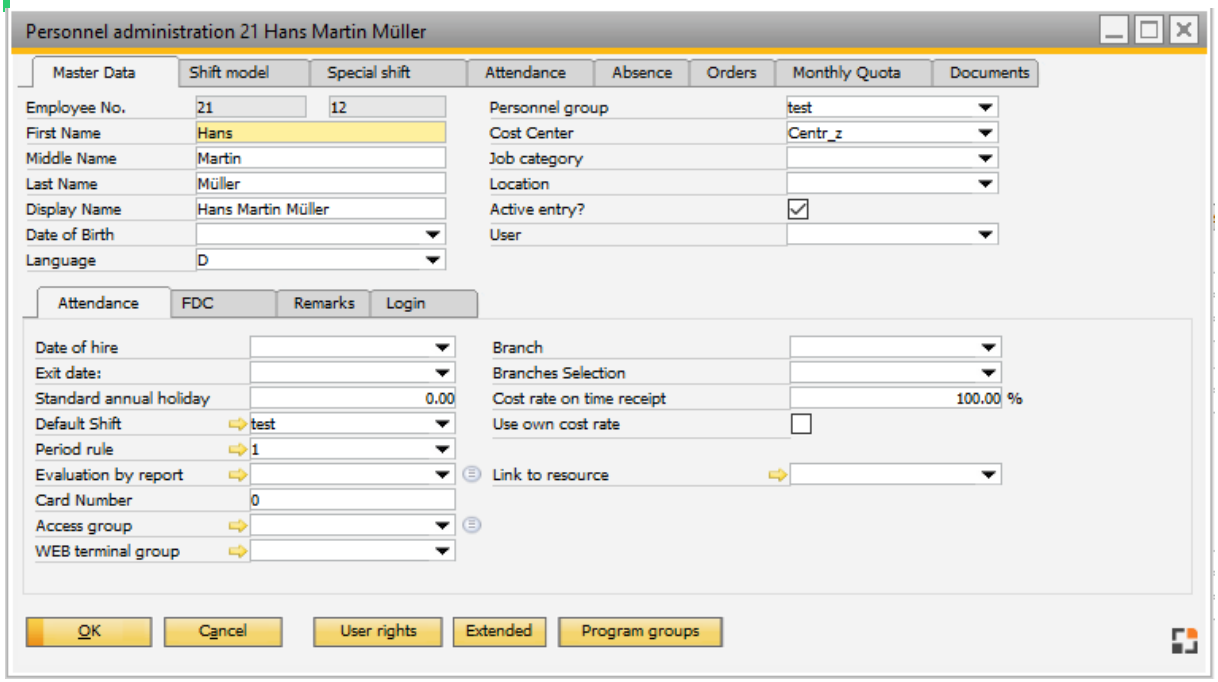
11.3.1.1 Edit Personnel Master data

Personnel List
Monthly quote
Personnel master data
Edit Master data
Attendance
FDC
Logon
Editing rights
Shift model
Special shift
Attendance
Absence
Work orders
Monthly quota
Documents

This Personnel window is the equivalent of the Employee window in SAP Business One. In this window you can edit personnel master data.
It is possible to synchronize Beas- and SAP Personnel Data (SAP: Employee Master Data). We are working on a solution to migrate both functions.

© 2026 Boyum IT Solutions A/S

PATH: Human Resources > Personnel > **Open** an entry.



Window bde_personal_edit.psr

Note: All fields with "x" in column "Sync" are synchronized automatically with SAP Business One Employee Master Data.

Currently only possible if you change the information in Beas window.

Master data tab – Header

Field	sync	Meaning
Personnel	x	Unique employee number There are two number fields: a) Beas Internal employee number (*beas_pers.pers_id*) b) Employee number linked to SAP Business One The second number is either linked to an existing SAP Business One entry or it is assigned automatically at new creation of the employee record. Note: Personnel number is alphanumeric and is sorted accordingly; it is not sorted by numbers.

© 2026 Boyum IT Solutions A/S

		Example: For personnel numbers 1–11 sorting is: 1,10,11,2,3,4,5,7,8,9,0 To avoid this, use initial 0, such as 001, 002, ... 011 If automatic personnel numbering was enabled in the Configuration wizard, the displayed list is sorted by numbers. ***See*** Configuration wizard – Personnel. Connection to SAP B1 personnel master data.
First Name	x	First Name.
Middle name	x	Middle name.
Last Name	x	Last Name.
Display name		The name displayed in several lists. Created automatically, if you change first, middle or last name Consist of First name, second First name, Last name. **Note**: If you change the name, the new name is shown in all lists and archives. Beas does not save the name in any other document (according to GDPR Rules).
Date of Birth	x	For information only.
Language		Important for language sensitive menus (like WEB Apps) which are displayed in the language of the logged in employee.
User	x	Link to SAP B1 user name and personnel number Certain kinds of data registrations as Quality control or Material posting require a linkage between SAP Business One - User and the personnel entry, if not started via Terminal. **Note:** Link can be established also in User administration – Extended.

© 2026 Boyum IT Solutions A/S

		See Quality control User management
Personnel Group		Belongs to Personnel Group.
Cost Center	x	Can be used for additional analysis, if applicable.
Bonus Group		More information according to bonus documentation.
Job category		Selection from SAP Business One.
Location		Selection from WEB Apps device administration.
Active Entry	x	If this option is disabled, the employee can no longer login or logout in presence recording.

Functions

Button	Meaning
Delete	Delete HR entry. With existing attendance entries the person will not be deleted, but set to "inactive". Note: The system asks separately if you wish to delete the entry in SAP Business One Employee Master Data.
User rights	Determination of extended editing rights and access for this user. Button is only visible, with authorization Personnel editing rights. ***See*** Editing rights.
Program group	Open the authorization window for access on program groups. Access can be defined per program group. This is only required when more than one program group had been activated. ***See*** Program group Administration.
Extended	Time evaluation for selected personnel entry. Button only visible with the respective authorization. ***See*** Time evaluation.
Reset SAP link	The system tries to link the SAP Business One Employee Master Data with Beas Personnel entry automatically. If the system is linked incorrectly, it will be possible to delete the link and to define a new link. For this you can choose the correct Employee entry. If not available: Do not fill the field. The system will create a new entry automatically. *Beas 2020.02*

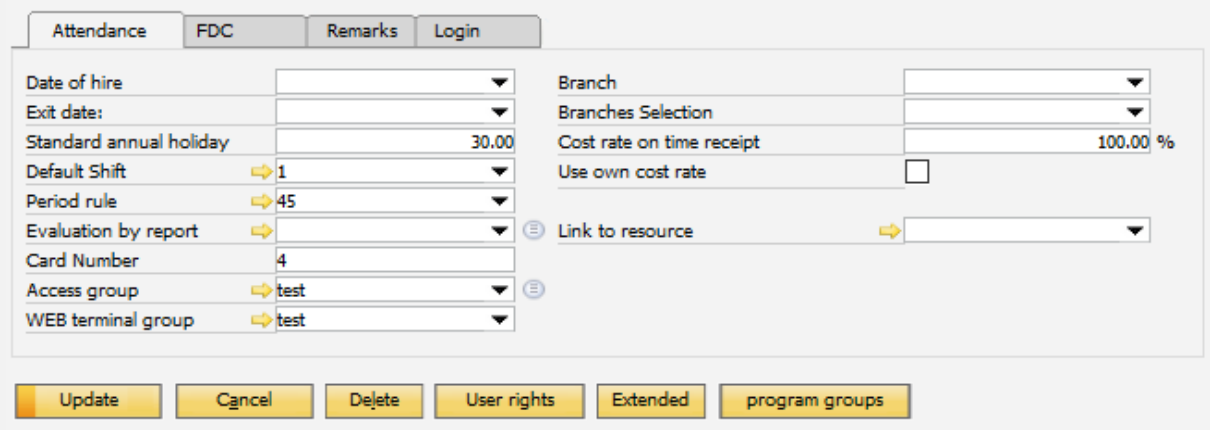
© 2026 Boyum IT Solutions A/S

back to Personnel master data

11.3.1.1.1 Attendance

Personnel List
Monthly quote
Personnel master data
Edit master data
Attendance
FDC
Logon
Editing rights

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Master Data tab > Attendance tab.



Window bde_personal_edit.psr

Field	Sync	Meaning
Date of Hire	x	The date the employee starts working for the company. **Note**: Login is not possible before the date of hire.
Exit Date:	x	The date the employee finishes working for the company. **Note**: Login is not possible after the exit date.
Standard annual holiday		Annual vacation entitlement of the employee The days entered here are used every year in January in the "vacation – surcharge" column for the Monthly Quota automatically. **Note**: With the customized extension fdc.src the behavior can be changed.

© 2026 Boyum IT Solutions A/S

		See Monthly quota.
Default Shift		Shift valid for employee if nothing else has been defined in regular hours and shift schedule.
Period rule		Period rule used for employee if no other period rule has been defined in regular hours.
Evaluation by report		Under time analysis, you can specify the information that should be output on the time analysis. You can store the report definition to be used here. ***See*** Time evaluation.
Card Number		To login to attendance recording and work order recording a unique number is required (e.g. RFID, Barcode, Magnetic strip, Chip, etc.). This number can be entered here. PC-Terminal: Only supported if in **Configuration wizard > Personnel > Terminal login** "Card number" was selected. WebApp: only supported if in **Attendance master data > Terminal-Functions > Setup > Basis settings > Login** "Card number" was selected.
Access group		Authorization group for PC-Terminal. In Authorization groups it is possible to define which apps an employee may access in PC Terminal of the program group "Terminal". As long as no authorization group was defined, all default apps are available. After an authorization was defined, an employee can access only the apps which had been assigned to their group.
WEB Terminal group		Authorization group to define which features are available in WEB Apps for this employee. If this field is left empty, the setting from above "authorization group" applies.
Branch		Set the branch from SAP Business One. This is only for filtering and sorting, no function.
Branches Selection		In this field you can set up from which branches the employee may select work orders or operations. Only for information purposes; no function.
Cost rate on time receipt		Modify the cost rate of a resource depending on the personnel who is reporting. In this case, it can be represented if the cost of the resource is more or less associated to the personnel reporting. This value is a percentage factor. By default, the value is 100%. In time receipt, the costs stored in the resource are multiplied by this cost factor: resource costs rate * cost factor.
Use own cost rate		Enable a cost rate per hour when the operator reports time. Once this field is active, a new field is available.

© 2026 Boyum IT Solutions A/S

		Cost Rate per Minute: Include the cost amount to be used. This option works together with labor cost defined in the resource. For this, labor cost must be evaluated separately. ***For example***, there is a labor cost rate per hour of 20€. This cost applies to any personnel. However, there can be differences depending on the personnel role, like specialist or supervisor, where the cost rate can be higher. In this example the own cost rate is 30€. Only the personnel who has this field active and have labor cost separate in the resource applies the cost rate assigned in the personnel master data.
Link to resource		The personnel entry can be linked to a resource. **Possibilities: select a resource**: In resource the field "number machines/employees" is set to the number of employees, linked to that resource. Thus, a 1:1-relation between resource and person can be represented. **Enter a new resource**: The entered resource is created and linked to the person. Note: This is only for information. The link has no effect on the capacity to the linked resource.

Functions:

Uncleared Time Records: this function opens the Attendance clock in screen to edit Shift and Clock in information.

Change log: Opens the Change log for employees (right-click function).

For further buttons ***see*** Edit Personnel Master data.

11.3.1.1.2 FDC

Personnel List

Monthly quote

Personnel master data

Edit master data

Attendance

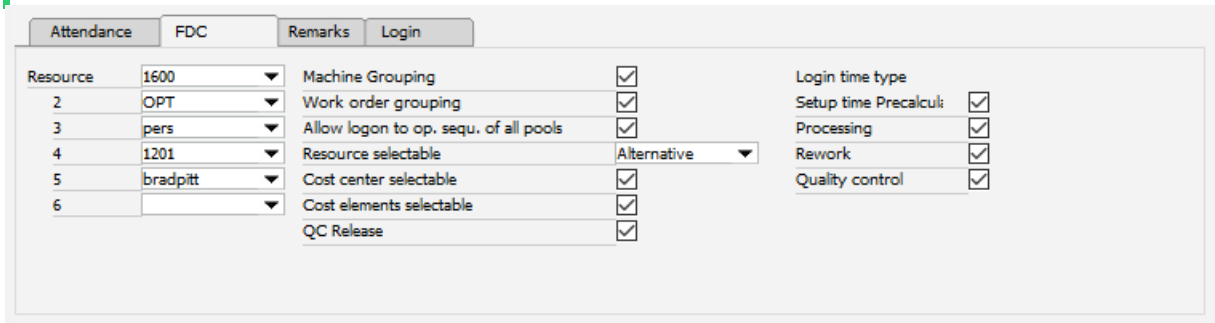
FDC

Logon

Editing rights

© 2026 Boyum IT Solutions A/S

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Master Data tab > FDC tab.



Window bde_personal_edit.psr

Field	Meaning
Resource	Determines which resource the employee may log in. Up to 6 Resources can be entered. Logon via Pool list to view all operations which are assigned to one of these 6 resources. A valid resource ID needs to be entered. From "Resource 2" placeholders can be used "%" or 010%: for all resource IDs starting with 010. ***Reference:*** The % character needs to be at the end. Additional %-characters are not allowed. ***Example*** Resource 1: % or _ not allowed. Resource 2-6: % or _ allowed. Beas checks this rule in - Work list - personnel filter - Login and logout - Pool list - Time receipt Important: This resource rule is not checked in Quick input app and functions linked with it.

© 2026 Boyum IT Solutions A/S

	See Resources Pool Report
Machine Grouping	If active, the employee can work on multiple machines in parallel (beas_pers.machine grouping 1/0). **Terminal > work order login**.
Work order grouping	If active, the employee can log on to multiple orders at once (beas_pers.work order grouping 1/0). **Terminal > work order login**.
Allow logon to op. sequ. of all pools	if active, the employee can also log on via bar code to positions which are not in the active pool. Only affects **Terminal > work order login**. Affects only the Terminal – Order login.
Resource selectable	Work oder login. Determine whether the employee may change the resource at login and logout to work order **Yes** = Any resource may be selected. **No** = Resource is predetermined; it may not be changed: only the resource in the position (or the resources belong to the group in the position) are allowed. **Alternative** = Employee may choose between the default resource ("No" option) and alternative resource. *(beas9.0-004-000-001)* Note: If the default resource is a resource group, you may choose between the resources of the group. This has a higher priority than the setting "alternative". With the setting "Yes" only the resources set up in **Personnel > FDC** (Resource 1–6) or stored in station settings are displayed. *Column: ressourcenwechsel 0=No, 1=Yes, 2=alternativ, Standard=1 (Yes)*
Cost center selectable	Determines whether the “Charge to Cost Center” field is displayed and can be changed for Time Receipt Logoff window
Cost Elements selectable	Determines whether the “Charge to Element” field is displayed and can be changed for Time Receipt Logoff window
Login time type	Determines which time types may be selected.

© 2026 Boyum IT Solutions A/S

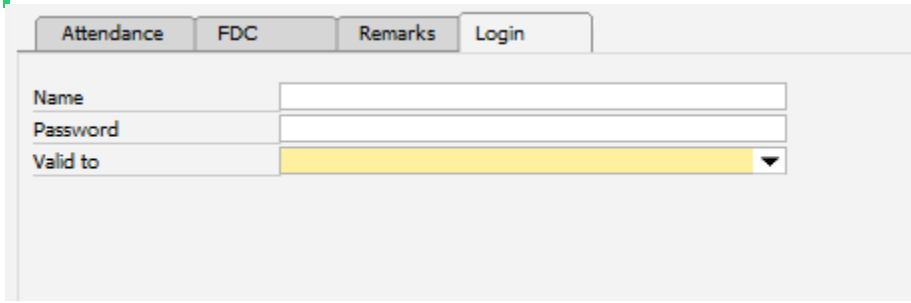
	Time types (setup, processing, quality control, rework, etc.) the employee may select for at work order login and logout. The names of the fields can be defined in **Configuration wizard > Master data > Resources** and are selected here using the applicable check box.
QC Release	Activate if the employee is allowed to release goods in QC. When **inactive**, the "Release" flag is hidden in the QC Measurement sample window. When **active**, the "Release" check box is visible in the QC Measurement sample window.

Note: When editing a time receipt, these rules do not apply. Type type, resources, cost centers etc. are always selectable. The pool is not taken into account. No consideration in case of login via MDE, as in this case an offline-solution is working.

11.3.1.1.3 Login

Personnel List
Monthly quote
Personnel master data
Edit master data
Attendance
FDC
Logon
Editing rights

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Master Data tab > Login tab.



Store name and password if the card number is not to be used for login. The password can also be used for electronic signature.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Name	User name or ID 1
Password	Password or ID 2
Valid to	Validity period – currently only supported by electronic signature.

See QC-inspection plan – electronic signature

11.3.1.1.4 User rights

Personnel List

Monthly quote

Personnel master data

Edit master data

Attendance

FDC

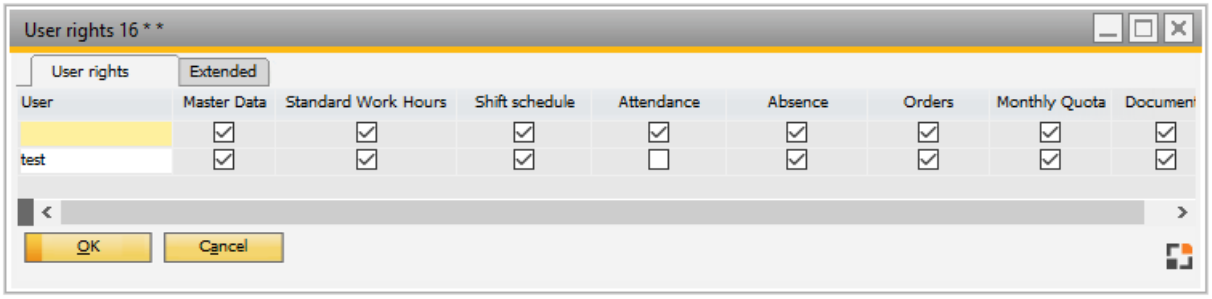
Logon

Editing rights

Extended settings

In this window extended editing rights are managed. Accessible via **Edit Personnel > Button "User rights"**

Here you can define by which user this employee can be viewed or edited and which data are included.



Window bde_personal_edit.psr

Settings are stored per user:

Area	Description
Master data	Editing rights for master data tab.

© 2026 Boyum IT Solutions A/S

	Important: Minimum requirement: reading rights are necessary to get access to additional tabs and functions.
Standard work hours	Editing rights for standard work hours tab.
Special shift	Editing rights for special shift tab.
Attendance	Editing rights for attendance. Right to calculate or view time evaluations ***See*** time evaluation.
Absences	Editing rights for absences tab. Right to calculate or view time evaluations ***See*** time evaluation.
Work orders	Editing rights for work orders tab. Affects not only the personnel master, but also work order structure, post-calculation and all other views on FDC reporting. If a user has no rights to administrate FDC clocking, these will be charged but always hidden, except the entries that the user is allowed to see according to their personnel editing rights.
Monthly quota	Editing rights for Monthly quota tab. Currently no effect on reports and monthly quota.
Documents	Editing rights for documents tab.

If nothing is set up, the employee has access to all data.

Functions:
Add/Remove: Create new / delete selected user right.

The user is stored with their editing rights:

Check box	Meaning
empty	No authorization.
gray	Reading authorization.
black	Editing rights.

Reading rights are always required. ***See*** Rights administration
Without personnel authorization, a user cannot open the personnel screen.
If full personnel editing rights were granted, this has a higher priority than the extended editing rights.

© 2026 Boyum IT Solutions A/S

back to Personnel master

back to Human resources

11.3.1.1.4.1 Extended settings

Personnel List

Monthly quote

Personnel master data

Edit master data

Attendance

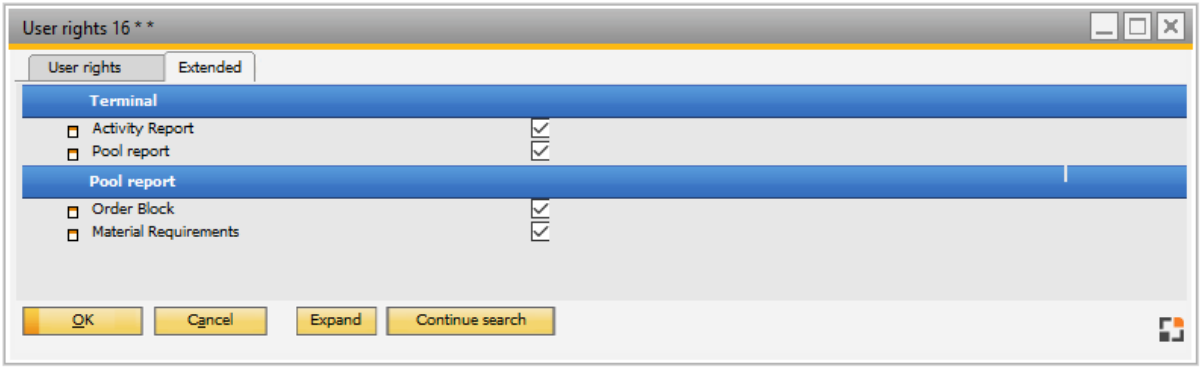
FDC

Logon

Editing rights

Extended settings

In **Personnel editing > User rights > Extended tab** you can define the following settings:



Window bde_personal_edit.psr

Terminal

(affects only beas2009-Terminal-Version)

Activity report	Display button "activity report"
Pool report	Display button "Pool list"

Pool list

Order Block	Function "block order" is available
Material requirement	Function display material requirement

See Pool list

© 2026 Boyum IT Solutions A/S

11.3.1.2 Shift model

Personnel List

Monthly quota

Personnel master data

Shift model

Account planning

Special shift

Attendance

Absence

Work orders

Monthly quota

Documents

In the regular hours, you can determine a shift definition and period rule.
The shift rules applied here are used when no manual shift scheduling is done through the shift schedule.
The shift rules depend on the set type. The following settings are also dependent:

Shift model tab

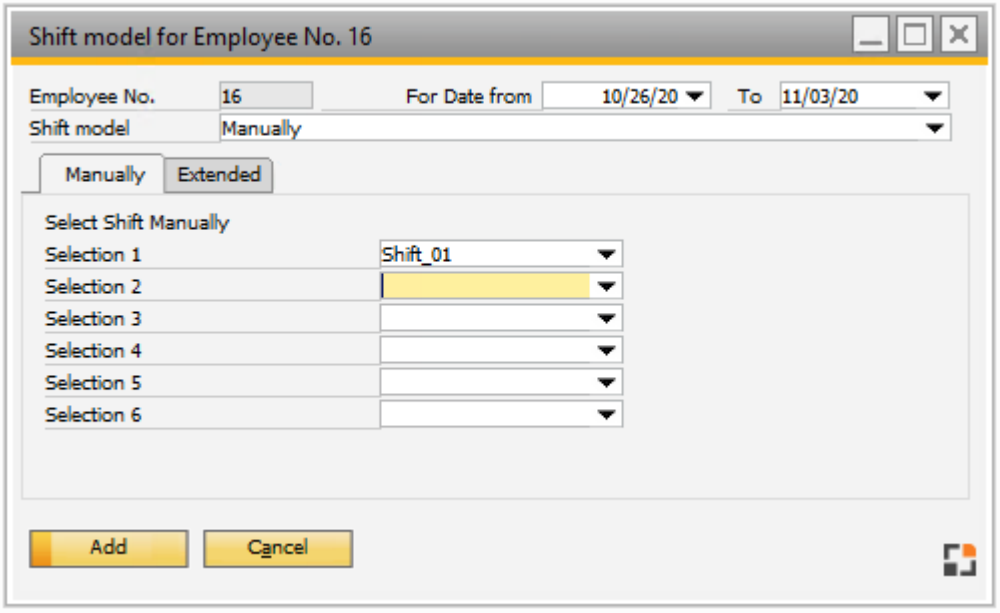
Available rules

Field	Meaning
For Date from ... to	Period of validity.
Standard type	Rule type stored in Editing window.
Hourly rule	Hourly rule to be used.

Use Account planning to determine, in which period to write times to which account. 2 accounts are available.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > button **Open/Add**.

© 2026 Boyum IT Solutions A/S



window: bde_personal_rglarbzeiten, bde_personal_rglarbzeitendetail, bde_personal_rglarbzeitenwochenplan, bde_personal_rglarbzeitenschicht

back to Personnel

11.3.1.2.1 Account planning

Personnel List

Monthly quota

Personnel master data

Shift model

Account planning

2 accounts are supported. Here you define on which account overtime is booked. After running time evaluation overtime is displayed in Monthly quota.

See Period rule – Surcharges

Field descriptions

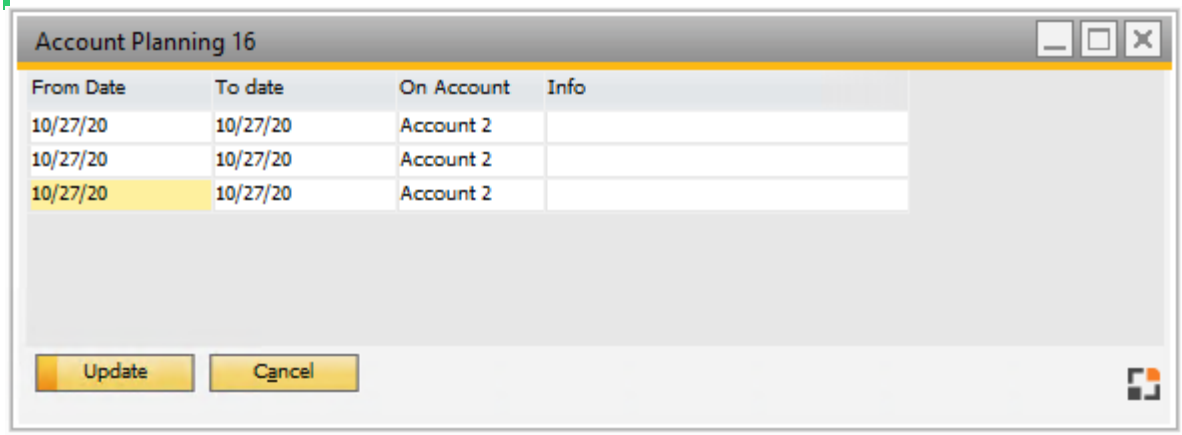
Field	Meaning
from date	Beginning of planning
to date	End of planning
on account	Determines account 1 or account 2
Info	Free text

© 2026 Boyum IT Solutions A/S

Functions:

Add/Remove: Create new / delete selected planning.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > **Account Planning** button.



Window: bde_personal_stdkontonr_browse

back to standard working hours

11.3.1.2.2 Edit shift model

Personnel List

Monthly quota

Personnel master data

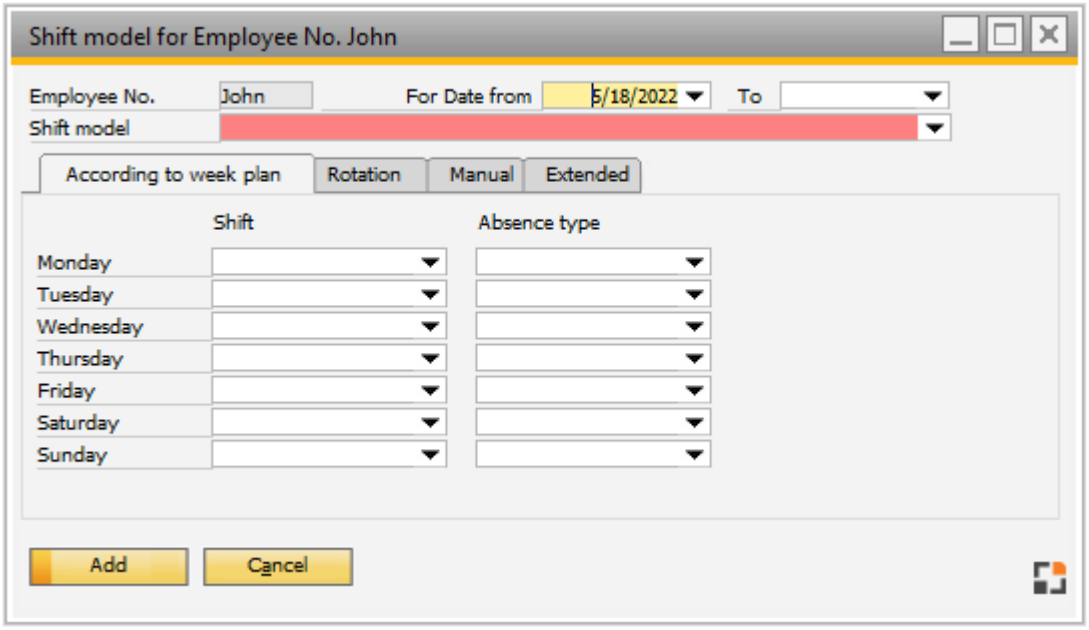
Master data

Shift model

Edit shift model

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > **Open/Add**.

© 2026 Boyum IT Solutions A/S



Window bde_personal_rglarbzeitendetail.psr

Shift Times tab – Available shift models

Field	Meaning
Employee no.	Personnel number.
For Date from ... to	⊟ Period for which the rule applies. Define the period in which the definition applies. If no "Date to" was entered, the rule applies until the next rule takes effect. Entries with overlapping dates: the entry with the highest "from date" is applied. ***Example:*** 1. Entry valid from May 1st 2015 until December 1st .2015 2. Entey valid from July 1st.2015 until - no entry - on June 1st 2015 the first entry is used. On August 1st, the second entry is used. Special shifts always have higher priority. *Note: from beas9.1 PL 6*
Shift model	According to week plan - tab: Shift determination by week Shift work 1 shifts: ⊟ One fixed shift.

© 2026 Boyum IT Solutions A/S

		You can define the shift that will be valid for the employee for the entered time period. Note: This can also be defined in the Special Shift.
	Rotation tab Shift work 2..4 shifts	Shift determination with weekly rotation
	Automatic Shift	Automatic shift determination
	Automatic on default	Automatic shift determination with stored shift definitions
	Manual selection tab	Manual shift definition
Evaluation by report	In time evaluation you can set up which information is to be printed in a report. You can store the report to be used. ***See*** Report definition.	
Max overtime	In period rules accounts can be defined including the maximum amount of hours. Here, you define the limit for an overtime account to be transferred to the next month. It is automatically truncated if the limit is exceeded (to delete overtime at the beginning of the following month.)	

Tab Extended

Optional period rule	Optional Period rule to be used.
Evaluation by report	You can define which information should be issued in the time evaluation. Here it is possible to deposit the report definition to be used.
Max overtime	⊟ Define max. allowed overtime. Accounts can be set up in the period rule: enter the max. hours of the account. This is the maximum reading for the following month. All hours exceeding this limit, be cut off automatically. (Example of use: if generally, overtime is expiring at the beginning of the month).
Plan hours / month	⊟ The number of working hours per month can be defined here. Hours according to shift are not longer considered. The program calculates the hours per day the person has to be present.

© 2026 Boyum IT Solutions A/S

back to standard working hours

11.3.1.2.3 Shift Model

According to week plan
Rotation
Automatic shift
Automatic on default
Manual
Extended

11.3.1.2.3.1 According to week plan

Personnel List
Monthly quota
Personnel master data
Master data
Shift model
Edit standard working hours

According to week plan - tab

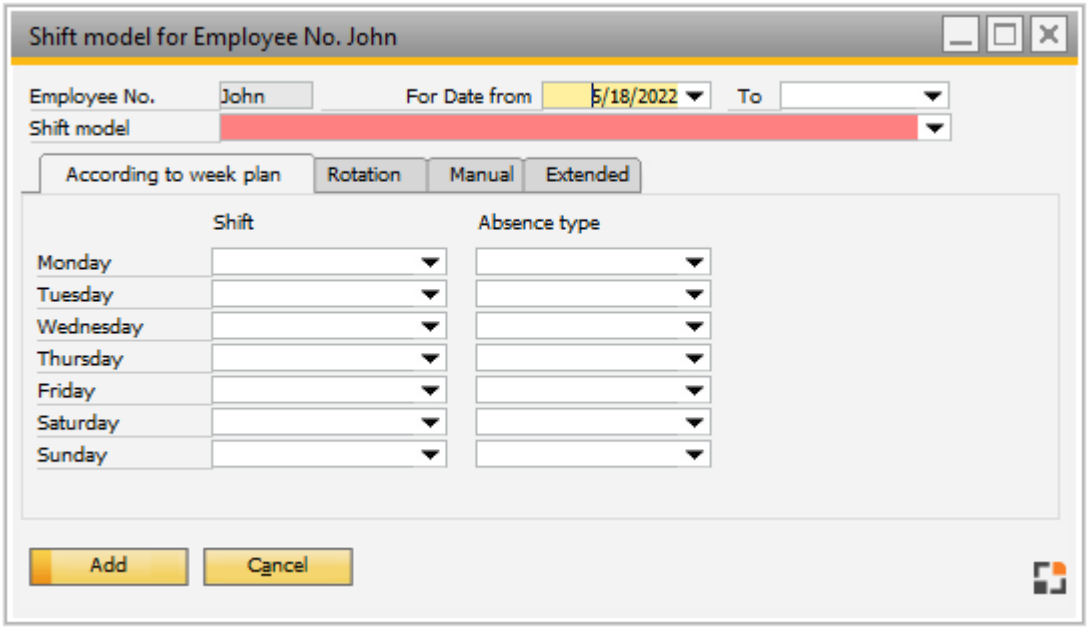
A separate shift of absence reason can be stored for each weekday. Therefore, the rule type "according to weekly plan" must be used.

Here can you define (for every day of the week):
- Shift selection
- Absence type

That means (depending on the day of the week you can determine) if the employee is present and which shift is assigned to them.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > button **Open/Add** > "According to week plan" tab.

© 2026 Boyum IT Solutions A/S



Window bde_personal_rglarbzeitendetail.psr

Example:

An intern attends school on Thursday and for the remaining time, he works in the "Default" shift. A shift "Std" = Default as well as an Absence Type "School" (Schul) are created.

In the weekly plan, the shift "Std" is now entered from Monday till Wednesday, on Thursday the absence reason "School" and from Friday till Saturday the shift "Std" is entered again. Thus, the employee has – without further entries of absence times – the absence type "School" active for Thursday.

back to standard working hours

11.3.1.2.3.2 Rotation

Personnel List
Monthly quota
Personnel master data
Master data
Shift model
Edit standard working hours

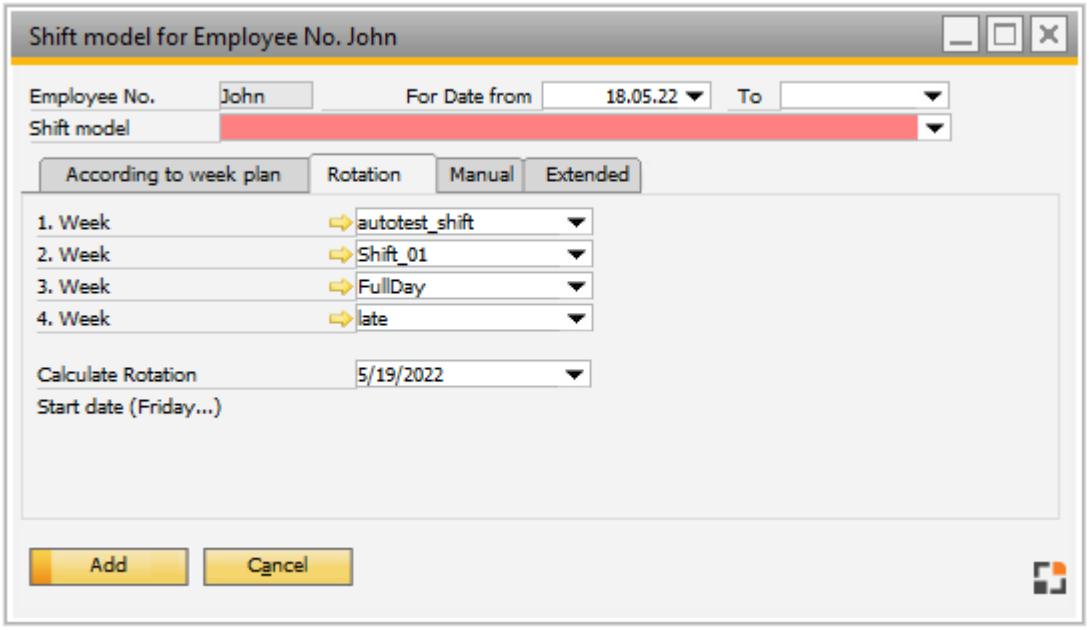
Shift Times 1-4 schedule

The input of the shift schedule depends on the rule type:

© 2026 Boyum IT Solutions A/S

Rotation tab (Shift times rotate weekly)	Manually tab (Select shift manually)
Shift work 1-4 Shifts For shift work 1-3 shifts for the 1., 2., 3. or 4. week, te respective week is entered. For the 1. shift it is enough to enter in 1. week.	Selection 1-6 Available shifts are entered to the lines 1-6. Select Rule type "Automatic per default" or "manual selection"
Rotation calculation from date (Friday): In case of rotation, the count begins with the date entered for the rotation calculation. The count starts from the following Friday.	Plan hours Plan hours are entered when the plan time should not be automatically calculated based on the factory calendar and the shift schedules but are to be firmly specified. This is usually done with annual accounting procedures.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > button **Open/Add** > "Rotation" tab.



Window bde_personal_rglarbzeitendetail.psr

Example 1:

3-shift operation with morning (FS), evening (SS) and night shift (NS)

The entry first week "FS", second week "SS" and third week "NS" is made as well as a date from which rotation calculation should begin (e.g. from the previous Saturday)

© 2026 Boyum IT Solutions A/S

Example 2:

3-Shift Model

There is an early shift (shift1), late shift (shift2) and night shift (shift3)

The employee starts with the early shift from December and then changes weekly

Shift 1: shift1, Shift 2: shift2, Shift 3: shift3

Calculate rotation. 1st December

back to standard working hours

11.3.1.2.3.3 Automatic shift

Personnel List

Monthly quota

Personnel master data

Master data

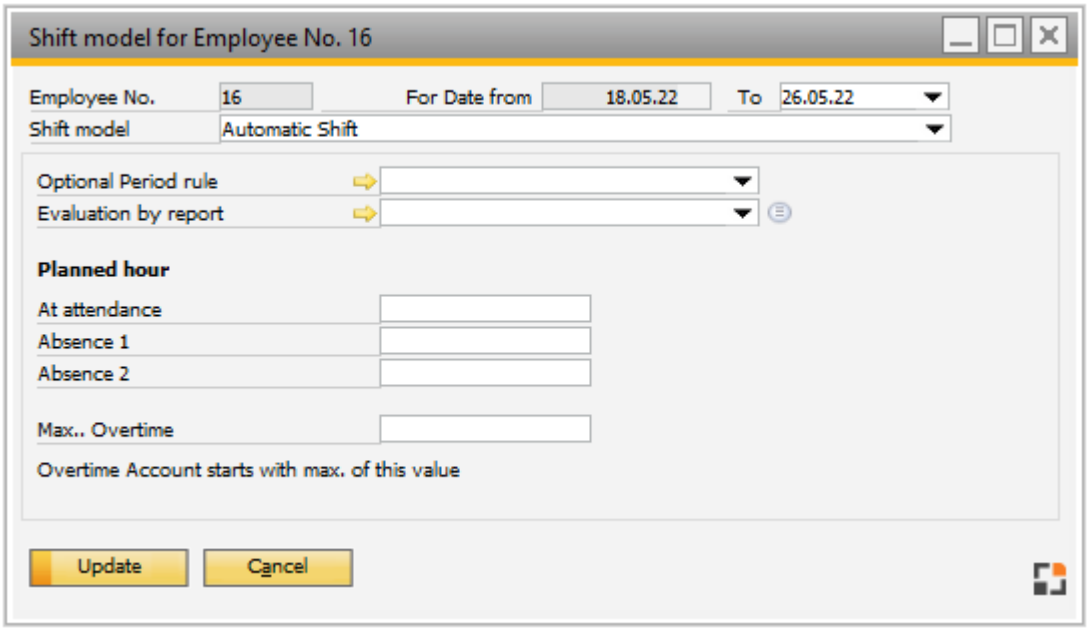
Shift model

Edit standard working hours

In Automatic shift there is no definition to set.

The system takes the first shift which is registered for the defined time.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > button **Open/Add** > select "Shift model": Automatic Shift.



Window bde_personal_rglarbzeitendetail.psr

© 2026 Boyum IT Solutions A/S

The shift is determined automatically based on the first login time.
The shift definition the shift detection (Time) has to be deposited for this.

***Example*:**
Automatic shift detection
Shift 1: 5 am - 10 am
Shift 2: 8 am - 2 pm

Login is at 9 am: shift 1 and shift 2 are available
Login is at 11 am: Only shift 2 is available

Field descriptions

Field	Description
Optional Period rule	Select an optional period rule from the drop down list. The yellow arrow opens the definition window of the selected Period rule.
Evaluation by report	Select a report for evaluation from the drop down list. The yellow arrow opens the editing window of the selected Report definition.
Planned Hours	
At attendance	Planned hours for attendance for the automatic default setting.
Absence 1	Define planned hours for Absence type 1.
Absence 2	Define planned hours for Absence type 2.
Max.. Overtime	Define maximum planned overtime (in hours).

See Automatic Shift detection
In the shifts, a time for automatic shift control can be stored. The shift to be used is determined based on the first login of the day.

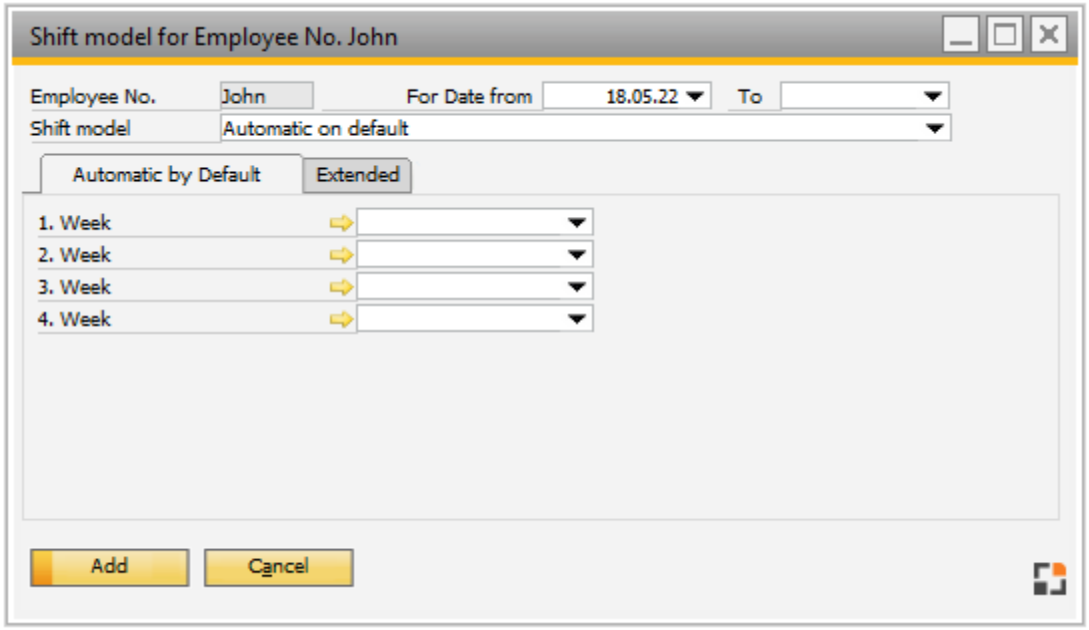
11.3.1.2.3.4 Automatic on default

Personnel List
Monthly quota
Personnel master data
Master data
Shift model
Edit standard working hours

© 2026 Boyum IT Solutions A/S

Automatic determination of the shift to be used from a shift selection.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > button **Open/Add** > "Shift model" drop-down > select "Automatic on default".



Window bde_personal_rglarbzeitendetail.psr

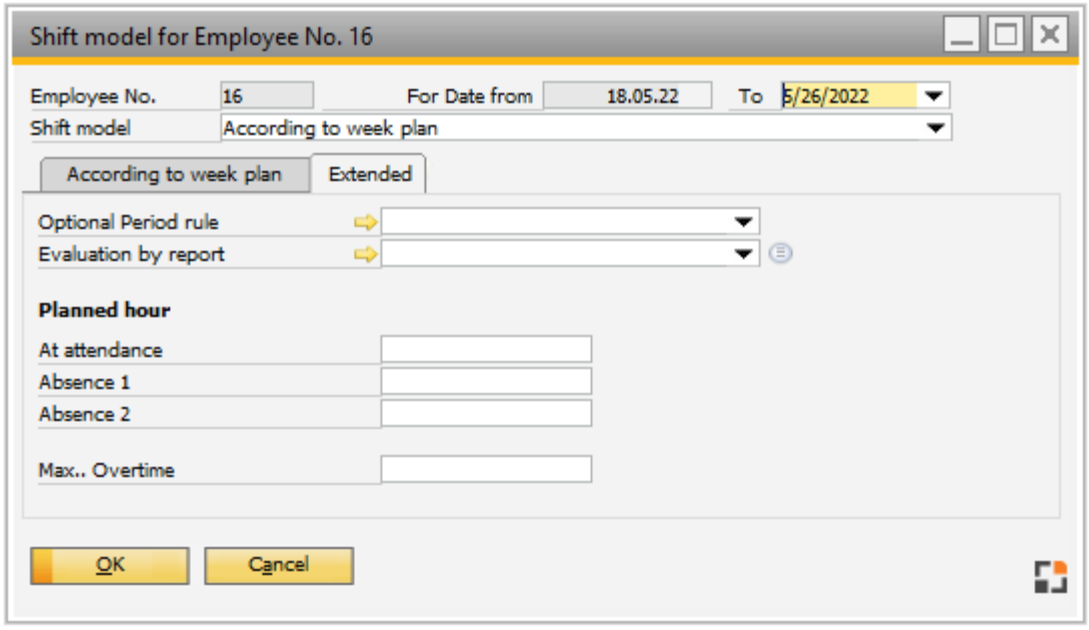
Same as automatic shift control, but only the shifts stored in the tab "Shift schedule" are available. The shift is determined automatically based on the first login time.
In Shift definition, the shift detection (Time) has to be deposited for this.

"Automatic on default" is selected automatically if there are different shift areas. The relevant tab is shown, in which up to 4 shifts can be defined, which is considered at the automatic determination.

Extended tab

In the extended tab you can perform the following, additional settings:

© 2026 Boyum IT Solutions A/S



Window bde_personal_rglarbzeitendetail.psr

Field descriptions

Field	Description
Optional Period rule	Select an optional period rule from the drop down list. The yellow arrow opens the definition window of the selected Period rule.
Evaluation by report	Select a report for evaluation from the drop down list. The yellow arrow opens the editing window of the selected Report definition.
Planned Hours	
At attendance	Planned hours for attendance for the automatic default setting.
Absence 1	Define planned hours for Absence type 1.
Absence 2	Define planned hours for Absence type 2.
Max.. Overtime	Define maximum planned overtime (in hours).

See Automatic Shift determination.

11.3.1.2.3.5 Manual

Personnel List

Monthly quota

Personnel master data

Master data

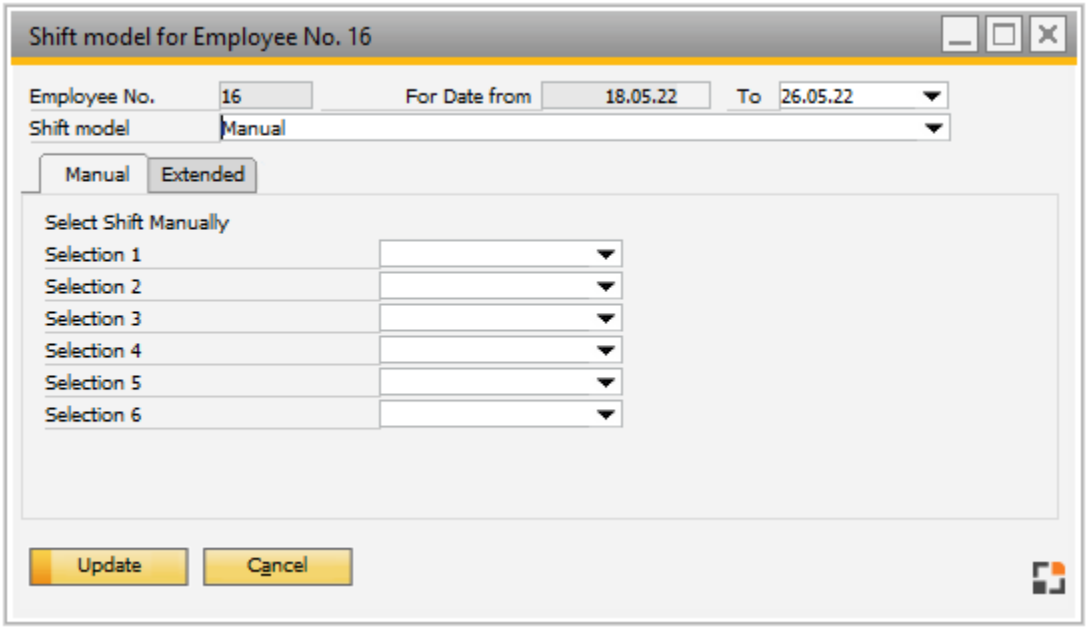
© 2026 Boyum IT Solutions A/S

Shift model

Edit standard working hours

With the Manual shift model, you can allow to choose the shift manually in the Login process.

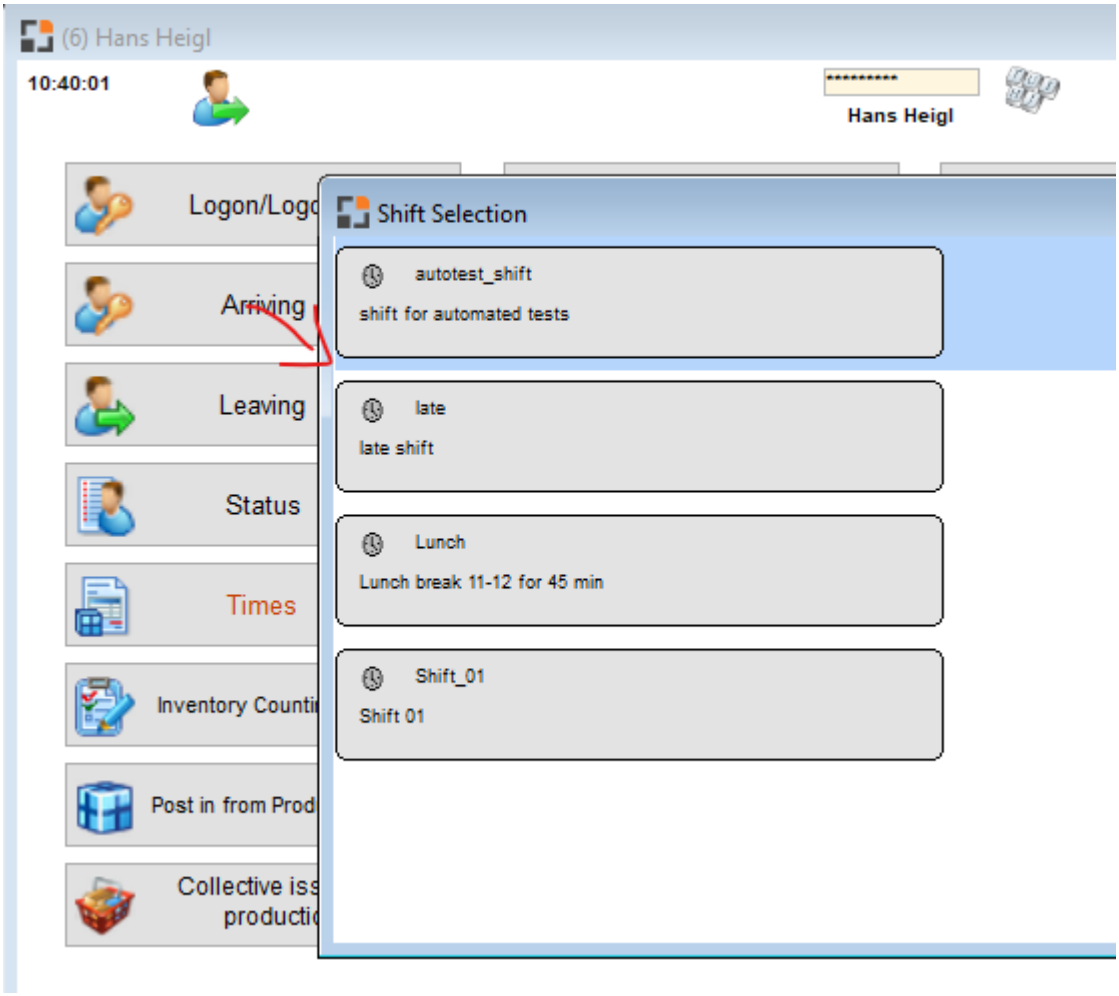
PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > button **Open/Add** > "Shift model" drop-down > select "Manual".



Window bde_personal_rglarbzeitendetail.psr

You can define up to 6 shifts, which the user can choose in the desktop terminal:

© 2026 Boyum IT Solutions A/S



If no shift is defined, the user can choose a shift from among all defined shifts.

It only displays shifts without definition of an "automatic shift" or the current time inside the "automatic shift".

Example:

Shift1: automatic shift 9-13

Shift2: automatic shift 13-17

ShiftM: no definition

Shift1, Schift2 and ShiftM defined in this tab "Manual"

User logs in at 9:00.

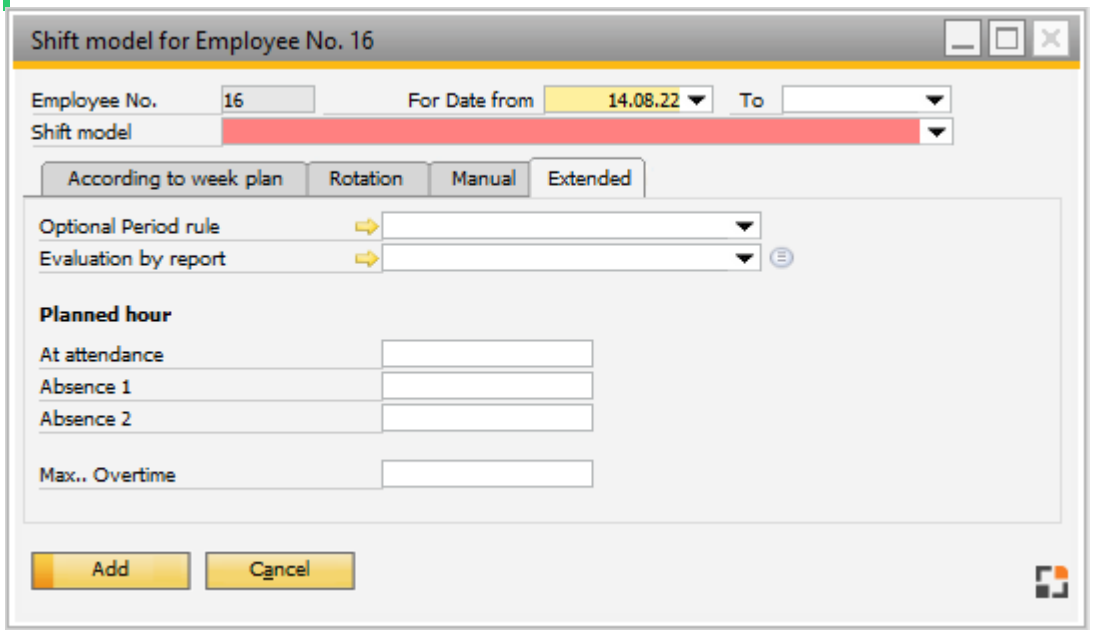
Now he can choose between Shift1 and ShiftM, but not Shift2

11.3.1.2.3.6 Extended

In this tab you can edit extended settings for the opened shift model.

© 2026 Boyum IT Solutions A/S

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Shift model tab > button **Open/Add** > "Extended" tab



Window bde_personal_rglarbzeitendetail.psr

Field descriptions

Field	Description
Optional period rule	Optional Period rule to be used.
Evaluation by report	You can define which information should be issued in the time evaluation. Here it is possible to deposit the report definition to be used.
Max overtime	Define max. allowed overtime. Accounts can be set up in the period rule: enter the max. hours of the account. This is the maximum reading for the following month. All hours exceeding this limit, be cut off automatically. (Example of use: if generally, overtime is expiring at the beginning of the month).
Plan hours / month	The number of working hours per month can be defined here. Hours according to shift are not longer considered. The program calculates the hours per day the person has to be present.

11.3.1.3 Special Shift

Personnel List

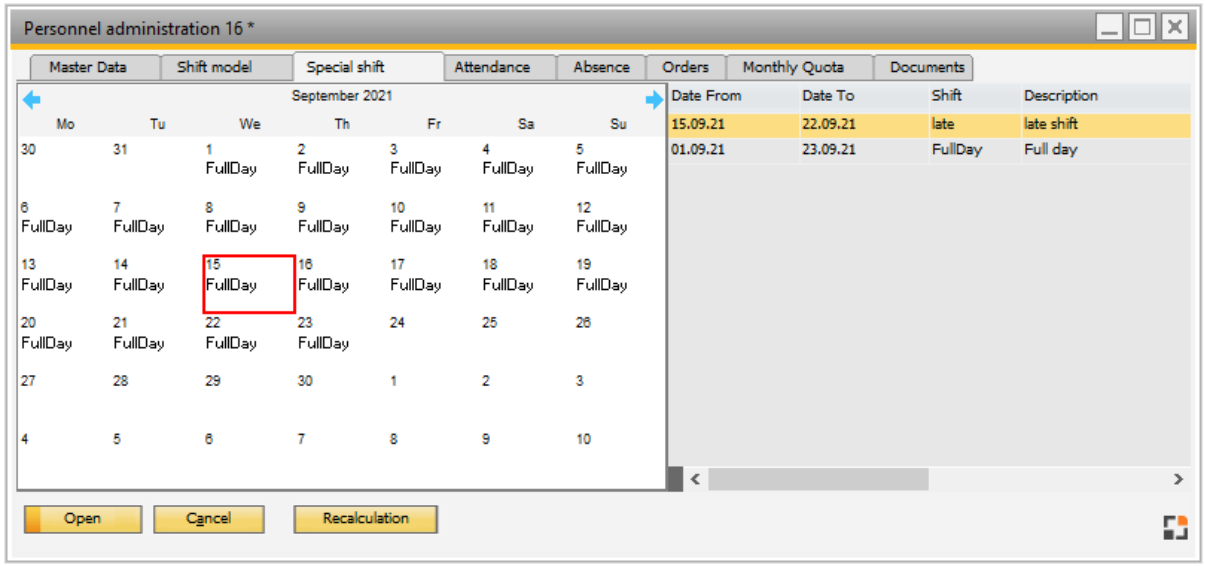
Monthly quote

© 2026 Boyum IT Solutions A/S

Personnel master data
Shift model
Special shift
Attendance
Absence
Work orders
Monthly quota
Documents

In this window, a deviation from the usual shift can be planned for a particular day. The special shift registered here has the highest priority and overrides the settings in regular work times and the shift definition in the master data. In the example below the regular shift has been overridden to "Shift_01" from 3/4/2019 to 10/4/2019.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Special shift tab.

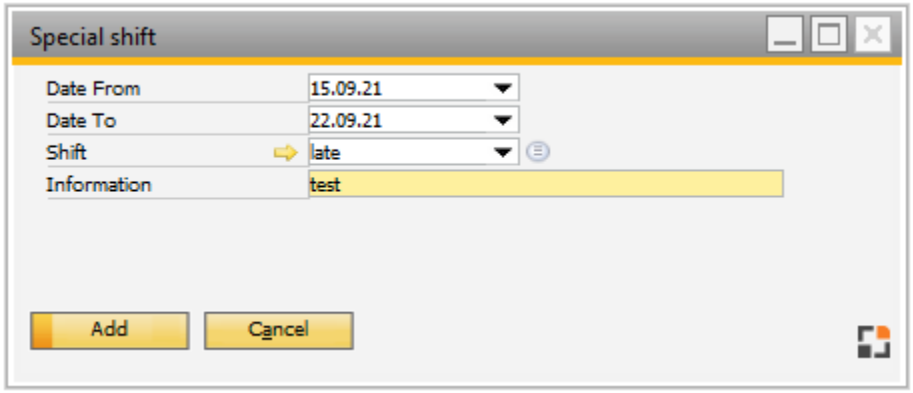


Window bde_personal_schichtp_browse.psr

Add new special shift:

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Special shift tab > right-click and **Add**.

© 2026 Boyum IT Solutions A/S



Window bde_personal_schichtp_edit.psr

Field descriptions

Field	Description
Date from/to	Period, for which this special shift is valid. (from *beas9.0-000-001-008* the period can be entered).
Shift	Sets this special shift for the given period.
Description	Shift description.
Information	Enter a note or information for this entry (from *beas9.0-000-001-008*).

Remove: Right-click function to delete the opened special shift.

back to Personnel

11.3.1.4 Attendance

Personnel List
- Monthly quote
- Personnel master data
- Shift model
- Special shift
  - **Attendance**
    - Enter attendance
- Absence
- Work orders
- Monthly quota
- Documents

© 2026 Boyum IT Solutions A/S

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Attendance tab.

In the Attendance tab all presence times of the employee are displayed. Times can be deleted, changed and also added. The window can be adjusted dynamically. Templates are supported.

Field	Meaning
From Date	Starting date of the entry.
From time	Entered begin (registered time).
Until time	Entered end (registered time).
Duration	Duration between entered start end and entered end .
Duration (Min)	Entered duration.
From time	Calculated start.
Until time	Calculated duration.
Duration	Duration between calculated start end and calculated end including consideration of breaks and rounding rules.
Manually	Check mark if the entry was entered manually.
Changed	Check mark if the entry was changed manually.
Original time	Type of the original entry.
Info	Text field.
Shift	Determined shift.
Hour rule	Determined hour rule.
Shift	Entered shift.
Hour rule	Entered hour rule.

Functions

Open	Edit entry.
Add	Create new entry.
Remove	Delete entry.
Time evaluation	Time evaluation for the current entry. Verifies the attendance and absence of a person. This time analysis also records the vacations and flextime accounts for the following month into the personnel master data.

© 2026 Boyum IT Solutions A/S

Open	Edit entry.
Recalculation	Recalculate attendance after changes were saved.

Double-click a row to open the editing window.

back to Human resources

11.3.1.4.1 Enter attendance time

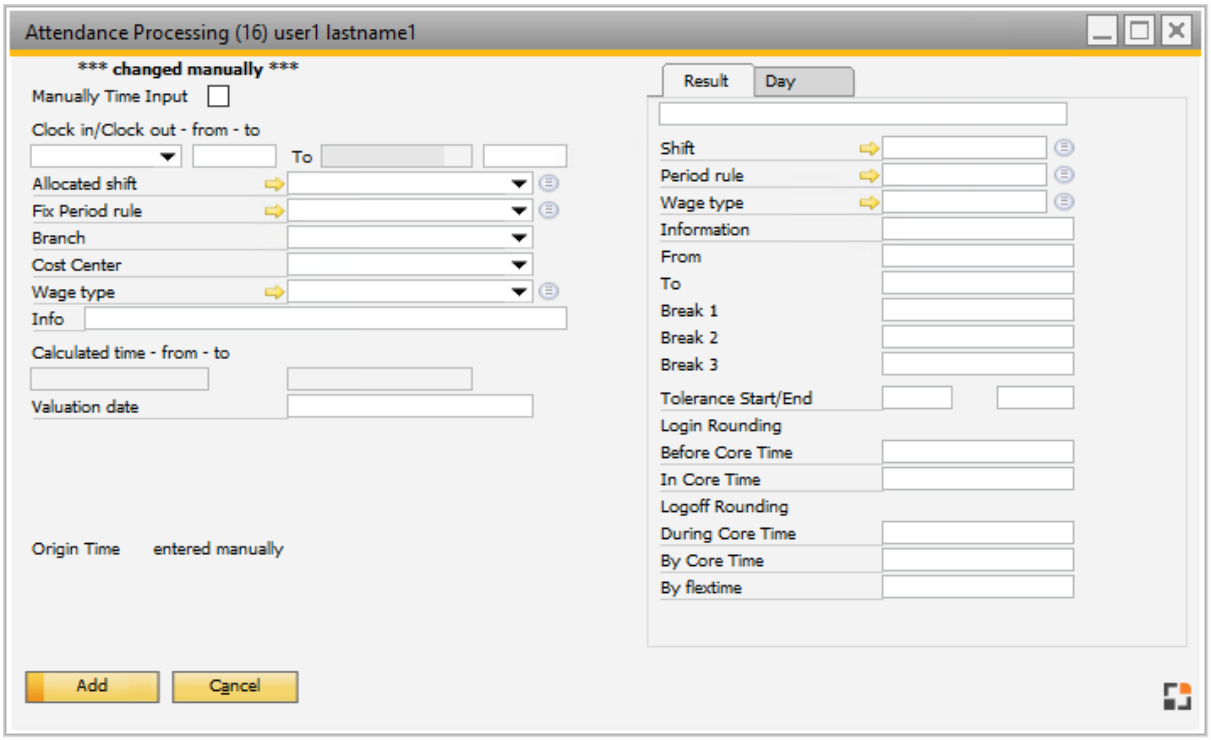
Personnel List
- Monthly quote
- Personnel master data
- Shift model
- Special shift
  - Attendance
    - **Enter attendance**
- Absence
- Work orders
- Monthly quota
- Documents

The window is split in two: enter attendance on the left, and the determined shift according to the entry is displayed on the right. This display can be used to test whether the determination work correct, before values are saved.

A time can always only be entered for 1 day. If work continues through the night, temporary logoff takes place at 23:59:59 h and logon at 0 h. The same procedure must be followed for manual entries.
If no shift has been entered yet, the shift is determined automatically according to master data, regular hours and shift schedule and shown at the right. This is also a good test of shift determination.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Attendance tab > **Open/New**.

© 2026 Boyum IT Solutions A/S



Window bde_personal_anwesenheitdetail.psr

Field descriptions

Field	Meaning
Manual time input	Enable to turn off automatic shift determination. In this case, time is not calculated but the entered value in minutes is used. Time can also be deducted this way by specifying a negative value.
Clock in/clock out from ... to	Date and time of the clocking is entered here If the inserted "to-time" is smaller than the "from time", the "To Date" will be changed to the next day automatically.
Allocated shift	If a shift is entered here, this shift is "fixed". Automatic shift scheduling can be bypassed this way. The automatically determined shift is displayed on the right and also in the overview list of the previous clock in / clock out. Note: At logon via terminal the shift is determined and entered after logoff as "allocated shift".
Fix period rule	A selected period rule for this entry is fixed.
Info	Any information, e.g. the reason of a change.

© 2026 Boyum IT Solutions A/S

Calculated time - from - to	Calculated time under consideration of rounding rules and shift definition.
Valuation date	Selected valuation date.
Origin time	Displays whether time was entered or determined.

Right window section - "Result" tab

Field	Description
Shift	Assigned Shift definition.
Period rule	Assigned Period rule.
Wage type	Assigned Wage type.
Information	Free text.
From/To	Working hours from-to
Break 1-3	Times of breaks during working hours.
Tolerance Start/End	Defined in the Period rule.
Login Rounding	
Before Core Time	Defined in Period rule > Rounding rule.
In Core Time	Defined in Period rule > Rounding rule.
Logoff Rounding	
During Core Time	Defined in Period rule > Rounding rule.
By Core Time	Defined in Period rule > Rounding rule.
By Flextime	Defined in Period rule > Rounding rule.

Functions:
Remove: Delete opened attendance entry.

If a time entry is changed via the terminal, it is marked as "manually changed" and the original time is shown in green below.

© 2026 Boyum IT Solutions A/S

back to Attendance

11.3.1.5 Absence

Personnel List
- Monthly quote
- Personnel master data
- Shift model
- Special shift
- Attendance
- **Absence**
- Work orders
- Monthly quota
- Documents

List of planned absence types.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Absence tab.

Field descriptions

Field	Meaning
From - To	Date and duration of absence.
...	Assigned picture, if stored.
Reason	Absence reason.
Description	Description of absence reason.
Wage type 1	First selected wage type for this absence entry.
Wage type 1 description	Description of wage type.
Wage type %	Factor by which the registered hours are multiplied and charged to the wage type 1 account.
Wage type 2 / description / %	Second selected wage type for this entry. ***See*** above.
Day off	If enabled, days are considered as leisure time. ***see*** Absence types.

© 2026 Boyum IT Solutions A/S

From predefined absence types for a given date absences can be entered. When selecting an absence type, the settings from Absence types master data are used, but they can be changed here for the respective date.
Edit the entries in the Edit absence window.

see Absence Types

back to Personnel master

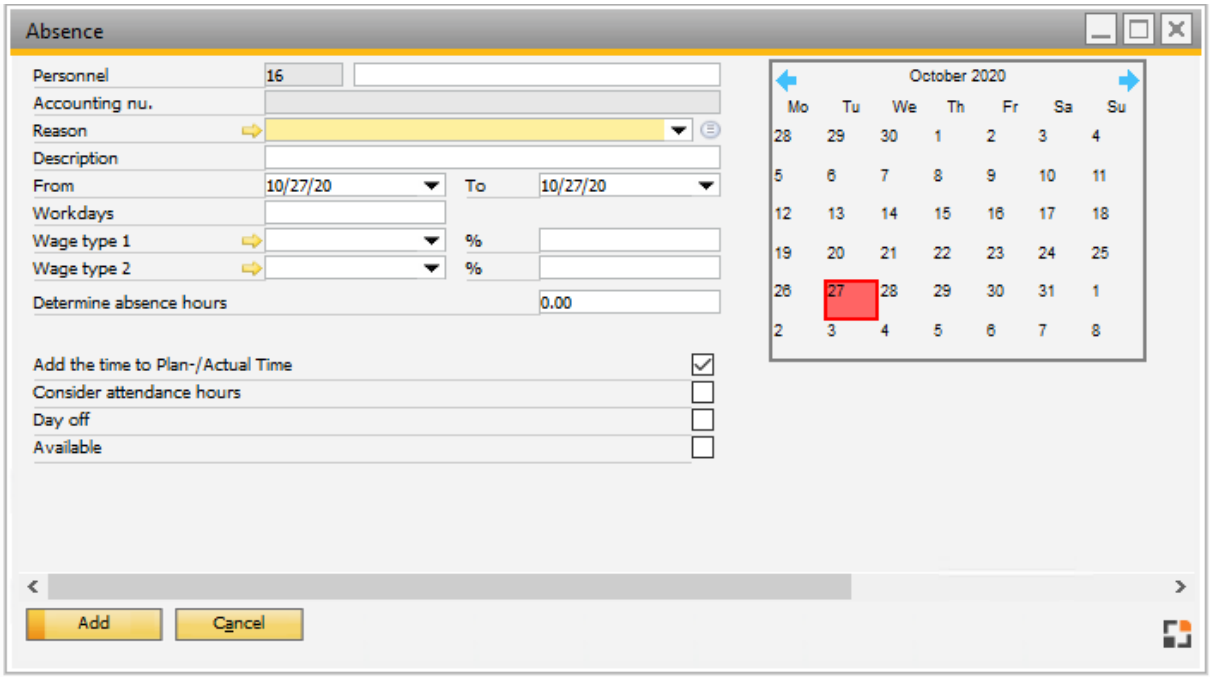
11.3.1.5.1 Edit absence

Personnel List
Monthly quote
Personnel master data
Shift model
Special shift
Attendance
Absence
Edit absences
Work orders
Monthly quota
Documents

Vacation, sickness and other absence types are planned in this window. Absences can be entered from predefined absence types for a given date. When selecting an absence type, the settings from Absence types master data are used, but they can be changed here for the respective date.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Absence tab > **Open/New**.

© 2026 Boyum IT Solutions A/S



Window bde_personal_abwzeit_edit.psr

Field descriptions

Field	Meaning
Personnel	Personnel number.
Accounting nu.	Accounting number.
Reason	Absence reason.
Description	Description.
From – To	Date entry duration of absence.
Workdays	Number of workdays between start and end date, based on the factory calendar. If there a value is entered, the end date is calculated automatically.
Wage type 1	Select the wage type , for which the hours of this absence type will be counted. In the %-field you define the factor, by which the registered hours are multiplied and charged to the wage type (account). 100%=Factor 1
Wage type 2	A second wage type for this absence. The same hour can be booked to several accounts with different factors.
Determine absence hours	Entry and display of duration.
Add time to plan/actual time	Determined time is written to planned and actual time account.

© 2026 Boyum IT Solutions A/S

Consider attendance hours	If active, time is considered in case of an unplanned attendance.
Day off	If enabled, days are considered as leisure time. ***see*** Absence types.

Functions:
Remove: Delete selected absence entry.

Calendar view
In the calendar on the right, the selected period is displayed: workdays in red, idle days according to factory calendar in green. If the cursor is in field "from" and you click a date in the calendar, the date is transferred to the field "from" and cursor jumps to field "to". By clicking again a date in the calendar the field "to" is filled and the number of workdays is calculated and displayed.
Already entered absences are displayed in blue. Absence types according to regular work time are not considered.

see Absence Types

back to Personnel master

11.3.1.6 Orders

Personnel List
- Monthly quote
- Personnel master data
- Shift model
- Special shift
- Attendance
- Absence
- **Work orders**
- Monthly quota
- Documents

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Orders tab.

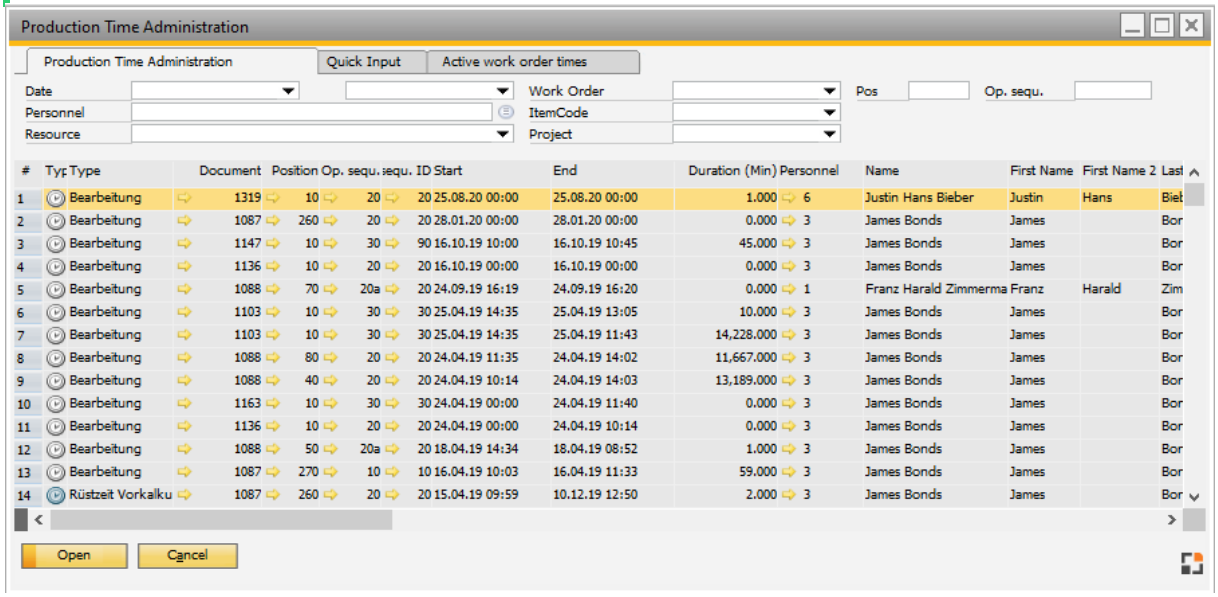
This window is used to display and edit all Production time entries.
Clicking on an entry opens the Time Receipt window for an operation.

© 2026 Boyum IT Solutions A/S

PATH: Production > Factory Data Capture > Production Time Administration

or

Human Resources > Personnel > **Open** an entry > Personnel Administration XXX > Tab "Orders"



Window fert_arbzeit_browse_alle.psr

Window settings and Templates are supported.

Filter

Field	Description
Date	Define Date From/To If you change "Date From", the system inserts the same Date in field "Date To"
Personnel	You can choose one or more Personnel ID's Note: If you open this window from **Personnel Administration XXX > Tab "Order"**, this field is not visible. You only have access to the selected Personnel entry.
Resource	The Resource used by the operation.
Work order	The number of the work order.
Pos.	Work order position number
Op.sequ.	Operation sequence - Routing number
Item Code	Item Code.
Project	Project information of the work order.

© 2026 Boyum IT Solutions A/S

Columns

Many fields related to time receipt are available.

For more information ***see*** Production Time Receipt.

Functions

Functions	Description
Add	Create new Time Receipt If called from Personnel Administration -> Only for current Personnel Entry
Remove	Delete current entry.

Recalculate	- Only available for databases with the SAP setting "Use Perpetual inventory" deactivated.
	This function recalculates times for open Work orders:
	The system executes the following script for every open Work Order:
	`wotime=woreset`
	`wotime=load=<beas_arbzeit_buchnr_id>`
	`wotime=timecalc`
	`wotime=save`

11.3.1.7 Monthly quota year/month

Personnel List

- Monthly quote
- Personnel master data
- Shift model
- Special shift
- Attendance
- Absence
- Work orders
- **Monthly quota**
  - Monthly values
  - Wage types
- Documents

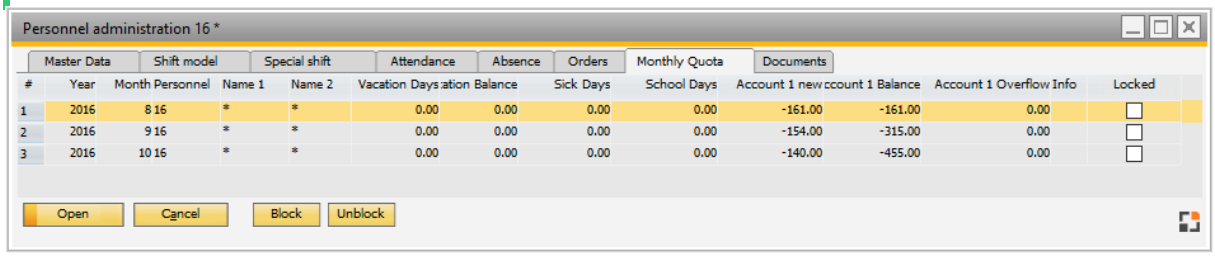
© 2026 Boyum IT Solutions A/S

In this window monthly quota for all employees are displayed per month/year. Window settings and Templates are supported.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Monthly Quota tab. (per personnel)

OR:

PATH: Human Resources > Personnel > Monthly Quota tab (All)



Window bde_personal_monat_browse.psr

Function	Description
Open	Monthly quota of one employee is displayed for the selected month/year. Monthly values and wage types of one person can be displayed for the selected month/year and edited. ***See*** Edit monthly quota.
Time evaluation	Time evaluation function is called. ***See*** Time evaluation.
Block / unblock	Block / unblock the time evaluation and editing for all displayed employees and months.
Release	Release the time evaluation and editing for all displayed employees and months.
Remove	Delete selected entry.
Add	New manual entry for a month or year.
Change log	Open the Change log for this Personnel.

In the monthly quota, remaining vacation time and the account balances of the prior month are entered. This data is the basis for calculating the time analysis in the current month.The values can be determined automatically through 'lists - time analysis'.
If Beas Attendance is used for the first time, then the remaining days of vacation and the account balances for each person must be recorded manually for the previous month.

- Remaining leave, annual holiday

© 2026 Boyum IT Solutions A/S

With evaluation for the 31.12 to the remaining leave of 31.12. the annual holiday is added according to personnel master.If you wish not to transfer the complete remaining leave to the next year, then after evaluation of December, in **HR > personnel > monthly quota > evaluation for December** into the column "remaining leave" you can enter the number of days to be transferred to the next year. ***See*** Personnel – annual leave.

- Block monthly quota

With the button "block" you can block and release monthly figures for editing. In the column "blocked" the current status is displayed. Editing, login and logout for the chosen person and period are blocked. Order time registration is not affected, and it is possible to login to work orders.

See

Windows

Templates

back to Human resources

Window: bde_personal_monat_edit

11.3.1.7.1 Edit monthly quota

Personnel List

Monthly quote

Personnel master data

Monthly quota

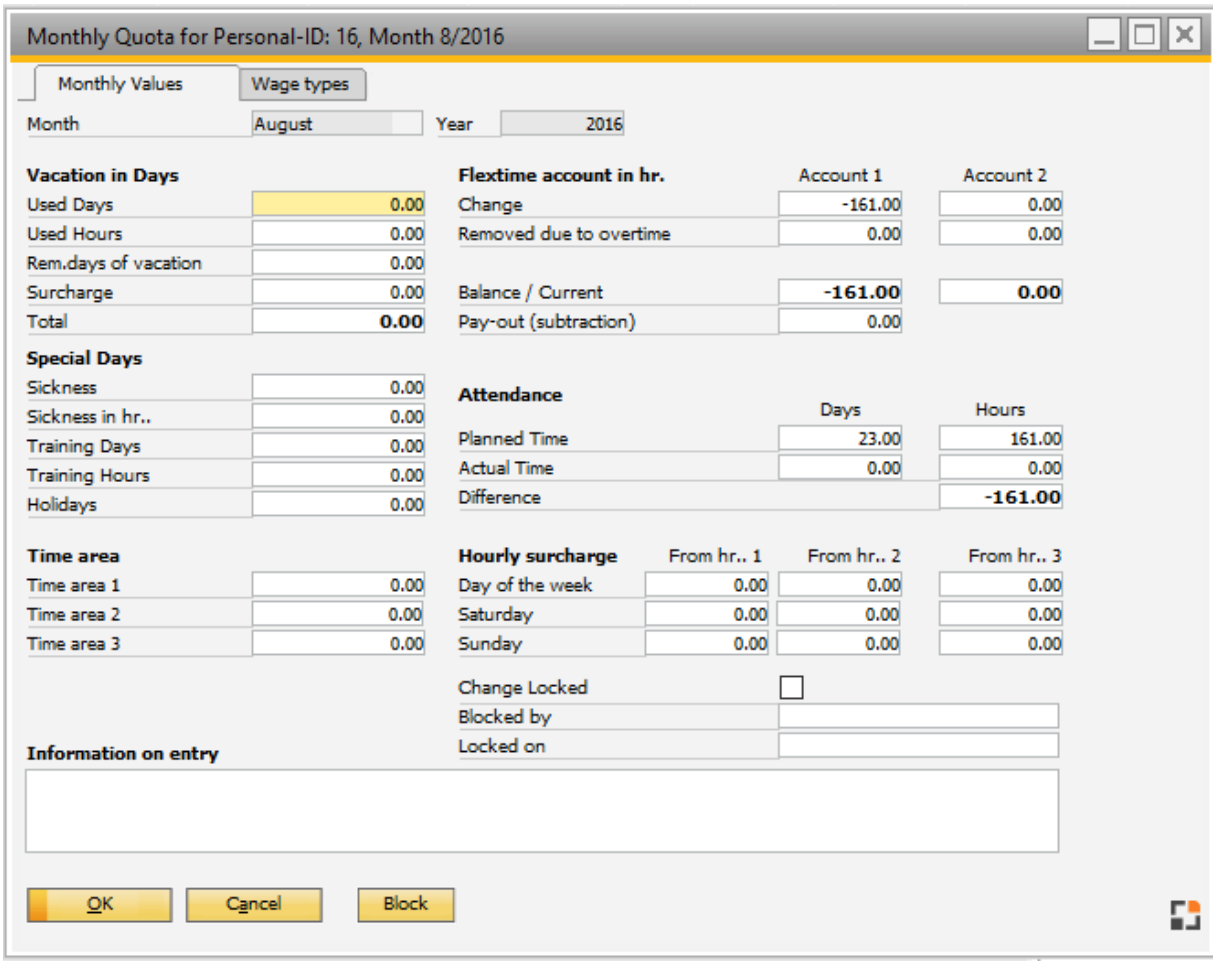
Monthly values

Wage types

In this window you can edit monthly values and wage types. Export is possible. Use the template function and the preview.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Monthly Quota tab > **Open / Add**.

© 2026 Boyum IT Solutions A/S



Window bde personal_monat_edit.psr

Tabs

Monthly values	Edit monthly values. Field description ***see*** Report definition.
Wage types	Edit wage types. ***See*** edit wage types. *beas9.0-004-000-000*

Monthly values are calculated by the function time evaluation. You can edit them here. Important: After re-calculation, all fields except "surcharge", "payment" and "information" are overwritten.

Calculation of the following month is based on the result of the last month.

Field	Description
Month / Year	The month and year for which the entered values are valid.
Vacation in Days	Summary of vacation days

© 2026 Boyum IT Solutions A/S

Field	Description
Used Days / Hours	The number of vacation days already taken by the employee – also provided in hours in a separate field.
Rem. Days of Vacation	The number of remaining vacation days for the employee.
Surcharge	Surcharge
Total	
Special Days	A collective section of other days not spent with working.
Sickness / Sickness in hr..	Time spent on sick leave provided in days / hours in two separate fields.
Training Days / Hours	Time spent in training provided in days and hours in two separate fields.
Holidays	The number of national holidays.
Time area	
Time area 1–3	Enter hourly values per month by time ares. ***See*** Time area
Flextime account in hr.	
Change	
Removed due to overtime	The number of overtime working hours removed
Balance / Current	
Pay-out (subtraction)	
Attendance	
Planned Time / Actual Time	
Difference	Difference of Planned / Actual Time in hours.
Hourly surcharge	
Day of the week / Saturday / Sunday	
Change locked	By clicking the button **Block** in the bottom of the window, the changes made in the monthly values are blocked. The button caption changes to "Unblock". To edit the values again, unlock the window with the same button.
Blocked by	The person who locked the values.
Locked on	Date of locking.

© 2026 Boyum IT Solutions A/S

Field	Description
Information on entry	Free text.

Besides fix default values you can use flexible wage types. ***See*** edit wage types.

11.3.1.7.1.1 Edit wage types

Personnel List

Monthly quote

Personnel master data

Monthly quota

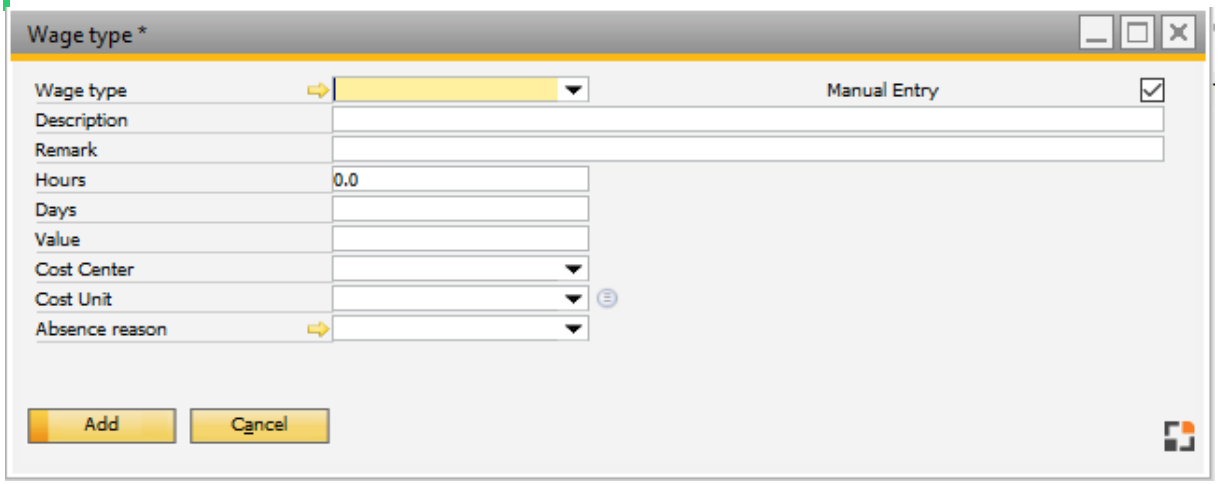
Monthly values

Wage types

In this window wage types are registered, checked and edited. The time evaluation calculates, how many hours accrued to which wage type. Values can be edited, after a re-evaluation they are deleted and recalculated. Manually entered are not deleted.

Window settings and Templates are supported. Export files can be created.

PATH: Human Resources > Personnel > **Open** an entry. > Personnel administration XXX > Monthly Quota tab > **Open / Add** > Wage types tab > Wage Types List > **Open / Add**.



Window bde personal_ wagetype_ edit.psr

Field	Description
Wage type	Wage type (mandatory).

© 2026 Boyum IT Solutions A/S

Description	Description of wage type (not changeable); filled automatically once "Wage type" has been selected.
Remark	Free text.
Hours	Number of hours on this wage type.
Days	Number of days (manual registration).
Value	Additional value (e.g. value) for this wage type.
Cost center	Cost center for this wage type.
Cost unit	Cost unit. Select one, using the icon additional values can be stored.
Absence reason	Select Absence type (only manual registration).
UDF1..4	Up to 4 UDF's can be stored in the Configuration wizard.

beas9.0-004-000-000, Window bde_personal_wagetype_browse, bde_personal_wagetype_edit

11.3.2 Documents

Personnel List

- Monthly quote
- Personnel master data
- Shift model
- Special shift
- Attendance
- Absence
- Work orders
- Monthly quota
- **Documents**

Here it is possible to store personnel-related documents.

A direct link to a drive is stored, and therefore this drive needs to be accessible.

Field descriptions

Field	Description
No.	Number indicating the count of documents in the list
Info	Add information to the document in the list view
Cross Reference	Path of the document file in the system

© 2026 Boyum IT Solutions A/S

Field	Description
Available	Check mark active if file is available

Buttons

Name	Description
Update	Save changes you made in the document list
Cancel	Cancel
new	Opens a new, blank line in the document list
Delete	Delete linked document
Choose file	Select document file to be stored here
Open	Open stored document - alternatively double-click the line.

11.3.3 Monthly quota

Personnel List

Monthly quota

Personnel master data

Monthly quota for all employees. The window can be adjusted dynamically. Templates are supported.

Functions

Function	Description
Open	The report "Monthly quota year/month" is opened, which displays monthly quota of all employees for a specific month. ***See*** Monthly quota year/month.
Time evaluation	The time evaluation is opened. ***See*** Time evaluation.

See

Windows

Templates

Time evaluation

© 2026 Boyum IT Solutions A/S

11.4 Time Evaluation

The time analysis is used to verify the presence and absence of a person. The time analysis also records the vacation and flextime accounts for the following month into the personnel data.
Call up via:

Human Resources > Time evaluation (for any number of persons, print or calculate monthly quota)
HR > Personnel list > Time evaluation
HR > Personnel > Edit personnel > Attendance > Time evaluation
Terminal – via various apps

See
Configuration Time evaluation
Report Definition

- Authorization

  The authorization "Time evaluation" is required.
  If extended Personnel – Editing rights are used, reading or writing rights for the attendance record of this employee are required.
  See Authorization, Personnel – Editing rights.

- The evaluation accesses always the results of the previous month

  Values from monthly quota are used

  Remaining leave + surcharge
  Flextime account 1 - pay-out
  Flextime account 2

  If there is no result from last month quota, the following values are used:

  Remaining leave = Annual leave
  Flextime account 1 = 0
  Flextime account 2 = 0

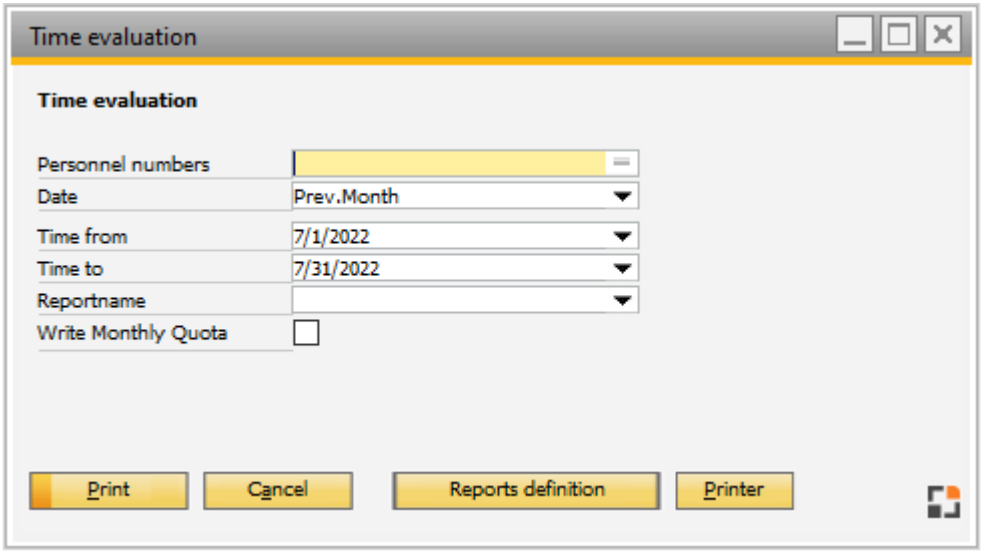
  Monthly values can be entered manually (Personnel Master data – Monthly quota) or calculated using time evaluation (***see*** Write monthly quota

© 2026 Boyum IT Solutions A/S

Example

manually entered for January: Remaining leave 25, Flextime account 1: 15 hours

Time evaluation for February: Basis for February will be remaining leave and 15 on flextime account.



Window bde_auswertung_zeit.psr

Attendance –Time evaluation

Function	Description
Personnel numbers	Use drop down to select personnel numbers
Date	Selection: previous month, current month
Time from – to	Period for evaluation Note: Overtime hours, remaining leave are always subtracted from the result of the previous month. Evaluations not starting from the first day of month, are calculated from that day, but hours are calculated and displayed only starting with the given date.

© 2026 Boyum IT Solutions A/S

	For calculations including more than one month, the monthly results within the selected period are not considered. A dot behind the duration is displayed if the time was automatically registered and manually changed afterwards. For evaluations of a longer period including several month, it is recommended to use Monthly quota. With templates own reports can be created.
Report name	The attendance report can be customized. Enter the name of the customized report. If nothing is stored, the default report stored in Personnel master is applied. ***See*** Report Definition
Write monthly quota	If active, the calculation result is written to monthly quota. This evaluation needs to be carried out monthly, as otherwise the calculation for the following month would have no basic data. Results can be viewed in - Monthly quota - Wage types ***See*** Define wage types

Function

Function	Description
Only calculate	No printout, only calculation of monthly values.
Print	Time evaluation is printed for all selected employees.
Reports Definition	Adjust the evaluation report.
Printer selection	Select the printer before printing.

Personnel time recording

Customizations

© 2026 Boyum IT Solutions A/S

Adjustment leave surcharge

writing monthly values, the function `fdc:additionalholiday()` is called

there you can manipulate leave surcharge (days) ***See*** annual leave

The following variables are available

`e_pers_id` = Personnel number

`e_date` = Date in format yyyy/mm/dd

`e_additionalholiday` = currently calculated value, it can be changed.

Example:

Personnel number 300 is no receive 10 additional days of leave in June

file fdc.src

```
function additionalholiday
if <e_pers_id> = 300 and <e_date,mm> n= 6 then
  setvar=e_addionalholiday=10
end if
end function
```

11.4.1 Report Definition

Define reports for adjusting time evaluation. The default report can be selected in master data or before creating the evaluation.

PATH: Time evaluation > **Reports definition** button.

Window bde_pers_anwreport_edit.psr

Field descriptions

Field	Description
Report name	Report name.
Description	Description.
Title	Displayed title in header.
Week sum	Check mark if hours are to be summed up by week.

© 2026 Boyum IT Solutions A/S

Footer	Set check mark, to activate the footer with information on vacation account balance etc.
Hourly surcharge	Select which hour surcharge to display.
% 1, 2, 3	Surcharge steps 1,2,3 from period rule. Title can be changed here.

In the great area below a schema of the print our is shown. In yellow marked row cells can be edited and added. Use the buttons below to add/remove cells or columns.
Click in to a field, select the type "Text" or "Value". For text, you enter a text, for value, you select from which data base field the content is used to fill that cell.

- Available columns

Selection	ID	Field name	Description
Vacation hours	#u_std	URL_STD	Vacation taken, number of hours
Vacation days	#u_tage	URL_TG	Vacation taken, number of days
Vacation previous month	#u_vormonat		Vacation days in previous month
Annual leave	#u_jahresanspruch	BEAS_PERS.URLAUB	Annual leave
Remaining leave	#u_rest	URL_REST	Remaining leave for current year
Vacation surcharge		url_zuschlag	Vacation surcharge (for next month)
Sick hours	#krank_std	KR_STD	Absence of Type "sick" in hours
Sick days	#krank_tage	KR_TG	Absence of Type "sick" in days
Sick paid hours	#kranktstd_bezahlt		Payed sick hours
Sick unpaid hours	#kranktstd_unbezahlt		Unpayed sick hours
Training	#schulungstd		Absence of Type "Training" in hours
Training days	#schulung	SCHULE_TG	Absence of Type "Training" in days

© 2026 Boyum IT Solutions A/S

Plan hours	#soll_std		Plan hours
Calculated hours	#ist_std		Calculated actual hours
Difference	#differenz		Difference Plan-Actual
Account 1 Previous month	#kto_vormonat		Account 1 balance for previous month
Account 1 current	#kto_akt		Account 1 current balance
Konto 1 Überlauf	#kto_ueberl		Account balance for overflow account 1
Konto 1 Änderung	#kontoaenderung		Change at account 1
Account 2 Previous month	#kto_vormonat2		Account 2 balance for previous month
Account 2 current	#kto_akt2		Account 1 current balance
Account 2 overflow	#kto_ueberl2		Account balance for overflow account 1
Account 2 change	#kontoaenderung2		Change at account 1
Surcharge 1	#nachtarbeit	nachtarbeit_std	Sum of hours, accrued in a certain domain. Here: night work. Defined in Period rule – time domain
Surcharge 2	#nachtarbeit2	nachtarbeit2_std	Sum of night work hours on account 2
Surcharge 3	#nachtarbeit3	spaetzuschlag_str	Sum of night work hours on account 3
Saturday hrs	#st_samstag	samstag_std	Sum of hours worked on a Saturday
Sunday hrs	#st_sonntag	sonntag_std	Sum of hours worked on a Saturday
Holiday hrs	#ist_feiertag	feiertag_std	Sum of hours worked on a Holiday
Pay off hrs	#auszahlung	konto_auszahlung	Number of hours, subtracted from account 1. Enter in Edit monthly quota – Pay out
Attendant total	#ist_anwesend		Sum of all attendant hours since las month closing

© 2026 Boyum IT Solutions A/S

Attendant days	#ist_tage		
Planned days	#soll_tage		Sum of all work days in period less absences (vacation, sick days)
Missing hrs	#fehlstd		Plan-Actual in hrs
Overtime 1			Sum of overtime account 1 as per Period rule – hourly surcharge
Overtime 2			Sum of overtime on account 2
Overtime 3			Sum of overtime on account 3
Overtime 1 saturday	#sa_uberstd1		Sum of overtime on saturday on account 1
Overtime 2 saturday	#sa_uberstd2		Sum of overtime on saturday on account 2
Overtime 3 saturday	#sa_uberstd3		Sum of overtime on saturday on account 3
Overtime 1 sunday	#so_uberstd1		Sum of overtime on sunday on account 1
Overtime 2 sunday	#so_uberstd2		Sum of overtime on sunday on account 2
Overtime 3 sunday	#so_uberstd3		Sum of overtime on sunday on account 3
Overtime 1 total	#uberstdtotal1		Sum of all overtime on account 1
Overtime 2 total	#uberstdtotal2		Sum of all overtime on account 2
Overtime 3 total	#uberstdtotal3		Sum of all overtime on account 3

11.4.2 Configuration time evaluation

Time evaluation (print out or display) has a fix configuration, only small adaptations are possible. In personnel master and in time evaluation you can set up, which report settings are to be used.

see Report Definition

Configuration

© 2026 Boyum IT Solutions A/S

Title Employee information	
List of Attendance and Absence	
Date	Date
Day of week	Day of week abbreviation
Reported time from / to / Info	Clocked time and information
Shift	Assigned Shift
Attendance from / to	Calculated time under consideration of Shift plan and period rule For Absences: designation of absence and number of hours in % related to plan time
Hours Actual / Plan	**Actual:** determined attendance hours Absences: paid absence hours ***See*** Determination of actual time **Plan:** Planned hours, calculated based on the shift plan ***See*** Determination of planned time
Difference	Difference between Planned and Actual hours
Account	Current balance of account 1 under consideration of the overflow account. ***See*** Flextime accounts
1 ... 2 ...3	Value depends on **Report Definition > Hourly surcharges** Values 1...3 can be renamed in Report Definition Possible settings: Period (Standard): Hours, accrued in given period ***See*** Period rule – time domain From hours: hours from a certain amount of overtime hours ***See*** Period rule – hourly surcharge

© 2026 Boyum IT Solutions A/S

Weekly sum

Active by default, set up in report definition

Wage types

If working with wage types, results are displayed here

Wage type designation	Designation
Wage type ID	ID
Hours	Number of hours accrued on this wage type.
Days	Only when registered manually.
Value	Only when registered manually.
Cost center	Only when registered manually.
Cost object	Only when registered manually.
Attendance type	Only when registered manually.

Customized results table

In Report Definition a table of results can be defined, which will be displayed here

Standard results table

By default, this results are presented in this table.

In Report Definition it can be disabled.

Vac.Hrs	Sum of taken vacation hours in given period All absence types with "vacation" active are considered
Vac.Days	Sum of taken vacation days in given period
Vac.last Mo	Sum of taken vacation in previous month
Vac.Remain	Remaining leave
Vac./Year	Annual leave
Sick Hrs	Sick hours
Sick days	Sick days

© 2026 Boyum IT Solutions A/S

Vac.Hrs	Sum of taken vacation hours in given period All absence types with "vacation" active are considered
Holiday Hrs	Time worked on holidays (in hours)
Holiday	Time worked on holidays (in days)
Saturday	Work on Saturday
Sunday	Work on Sunday
Plan Hrs	Sum of monthly planned hours
Act. Hrs	Sum monthly actual hours
Difference	Difference between Plan and Actual
Act1 Prev.Month/Current/Overflow/Payed	Account balance Previous month/Current Overflow hours/hours payed out
Act1 Prev.Month/Current/Overflow/Payed	Account balance Previous month/Current Overflow hours/hours out hours
1,2,3	Surcharges depending on report definition (***see above***)

Additional fields are displayed depending on settings.

See

Configuration wizard – Time evaluation

Report Definition

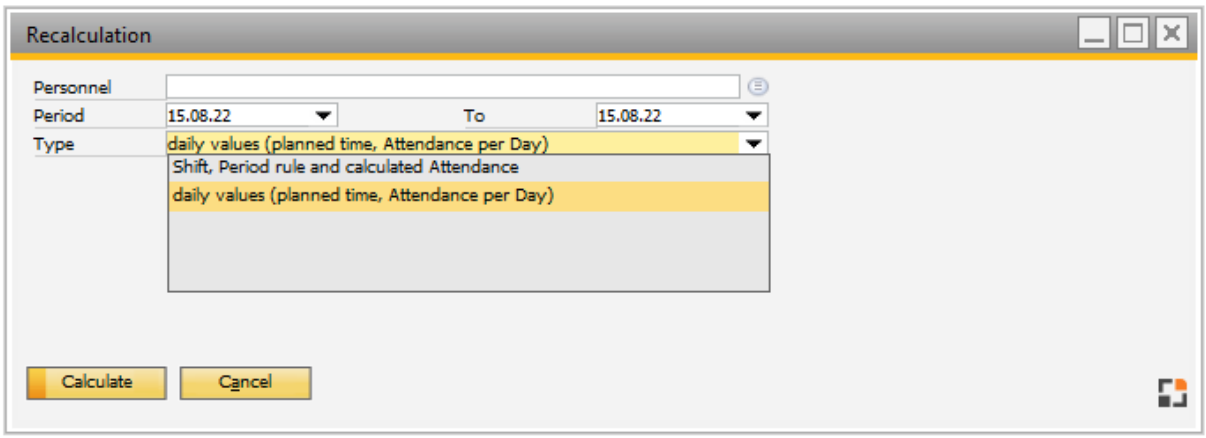
Period rule

11.5 Recalculation

In revaluation you can recalculate the following attendance values:

PATH: Human Resources > Recalculation.

© 2026 Boyum IT Solutions A/S



Window bde_personal_anwzeit_reparatur.psr

- Daily values (Planned time, attendance per day)

Calculates absence, availability per day.

These values are important for daily reports and views in the personnel administration and necessary for a personnel planning.

This calculation can also run using the Beas Service.

The generated table can also be used for own purposes

- Setup table BEAS_PERS_TIMES

Column	Description
PERS_ID	Personnel number
DATEID	Calculated date
PlanMinutes	Planned availability of this person on this day in minutes
AvailableMinutes	Payed time (also from absence times, in which "payed" was activated and the actual calculated attendance)
AttendanceMinutes	Actual attendance + absence, in which "Availability" was activated
AttendanceFrom	First login on this day. The valuation date will be considered and not login date.
AttendanceTo	Last logoff on this day
ABWGRND_ID	Absence type for this day

© 2026 Boyum IT Solutions A/S

Difference	Difference in minutes between planned availability and payed availability
VacHour	Holidays in hours
VacDay	Holidays in days
IllHour	Sick in hours
IllDay	Sick in days
TrainingHour	Training in hours
TrainingDay	Training in days
SCHICHT_ID	Valid shift for this day
STDRGL_ID	Valid period rule for this day
OverTime1 ..3	Overtime 1..3 according to period rule
TimeArea1...3	Work hours in defined time area

Script for subsequent calculation

```
object=ue_api_time=recalculatefdc=<parameter>
```

Parameter	Description

fromdate	Calculation start
	Calculation end will be set on fromdate + 180 automatically, if this will not be set manually.
	
	Example: From yesterday for personnel number 15
	
	`setvar=ld_start=<today -1>`
	`object=ue_api_time=recalculatefdc=pers_id=15<tab>fromdate=<ld_start,yyyy/mm/dd>`

todate	Calculation end
month	Set this on current month ***Example***: calculate current month for all persons `object=ue_api_time=recalculatefdc=month`
pers_id	Define, for which person the calculation has to be performed

© 2026 Boyum IT Solutions A/S

	Example: for personnel number 15 from today, the next 15 days `object=ue_api_time=recalculatefdc=pers_id=15<tab>fromdate=<today,yyyy/mm/dd>`
pers_list	Define the personnel list, for which the calculation has to be performed ***Example***: for this month personnel number 10,11 and 15 `object=ue_api_time=recalculatefdc=month<tab>pers_list='10','11','15'`

See

Report per Day

Beas Service Examples

beas 9.2 PL: 1

- Shift, period rule and calculated attendance

Existing attendance data can be recalculated via this subsequent calculation, if this is necessary because of master data changes.

This can become necessary at changes of
- Factory calendar (in the past)
- Shift- and period rule settings
- Change of the standard shift, period rule, shift model or special shift in the personnel master data

Note:
The time evaluation or calculation of the monthly values has to be re-performed afterward.

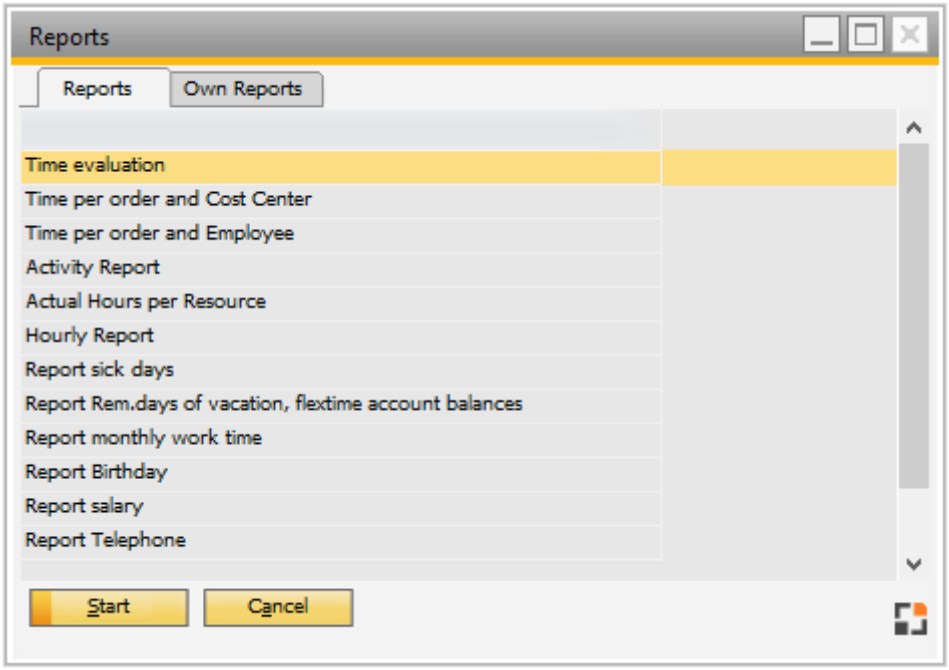
The following are calculated here:
- Shift
- Period rule
- Calculated attendance

© 2026 Boyum IT Solutions A/S

11.6 Report Attendance

Access reports related to personnel attendance in the following window:

PATH: Human Resources > Report Attendance



Window report_makro_start.psr

The following standard HR reports are available:

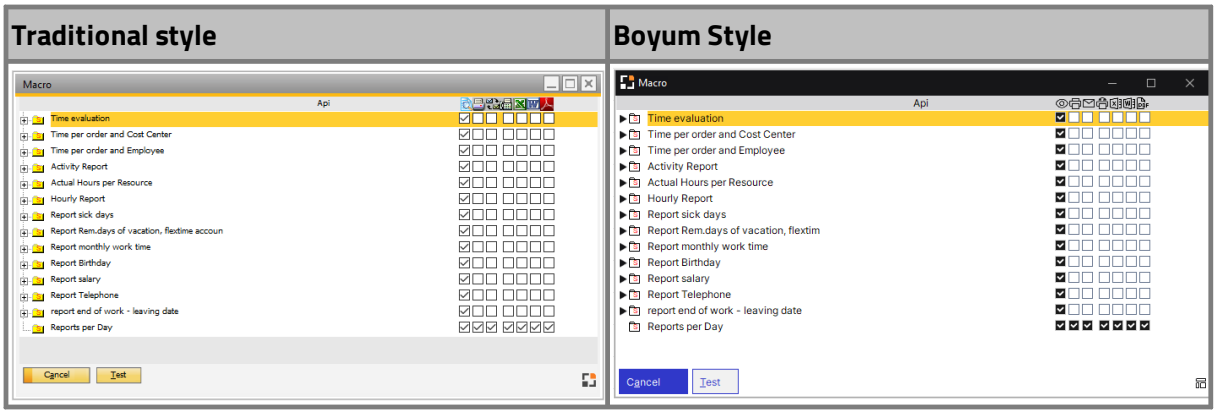
Report name	Description
Actual Hours by resource	Actual hours (reported order times) for every employee for a certain period and resource The total time per resource is displayed in hours and as diagram for the selected period. The resource entry can be expanded to - hours per day (level 2) - single order time receipts (level 3) *Window: bde_report_arbzeit_monat*
Hourly report (time sheet)	The hourly report provides a detailed overview of the activities of a person. This report is created monthly. In column format, it displays on which project the

© 2026 Boyum IT Solutions A/S

	person has worked for how long each day. In addition, the presence hours are compared allowing verification of the presence at the reported time.
Activity report	In the activity report, the order confirmation reports are shown for a person for a specific period. Entries are sorted by: Date/time - document number - assembly - position
Times by Project and Cost Center	This list shows the number of hours clocked for a specific period from which order to which cost center. The analysis is divided into - Order reporting - Overhead messages (messages to work orders of type Overhead). In addition, the sum is displayed per order, per cost center and total sum order/overhead costs. ***see*** Overhead costs
Times by Project and Employee	A clearly arranged column is displayed with the reported times per order grouped according to personnel numbers is shown. - Order reporting - Overhead messages (messages to work orders of type Overhead). ***see*** **Finished > Work Order > Work Order** One sum is shown per order, per personnel number and total sum order/overhead costs. ***see*** Overhead costs
Report per day	Daily report for personnel list A daily report can be created for all or certain employees for a time period of 31 days (one column per day) The following reports are possible: Attendance: Time presence period and the number of the attendance hours per employee and day Holiday: Display the holiday planning or absence planning in a clear form Shift: Display the shift planning Planning: Display the planned availability *beas 9.2 PL: 01*

Window settings

© 2026 Boyum IT Solutions A/S



WIndow report_makro_struktur.psr

In the window settings, you can access a summary of macros and check the related macro settings.

See: other Reports

back to Human resources

11.7 Master data

This chapter contains all master data for:

Terminal functions
Absence Types
Wage types
Period rule
Shift definition
Personnel groups
Attendance recalculation
Day template

11.7.1 Terminal Functions

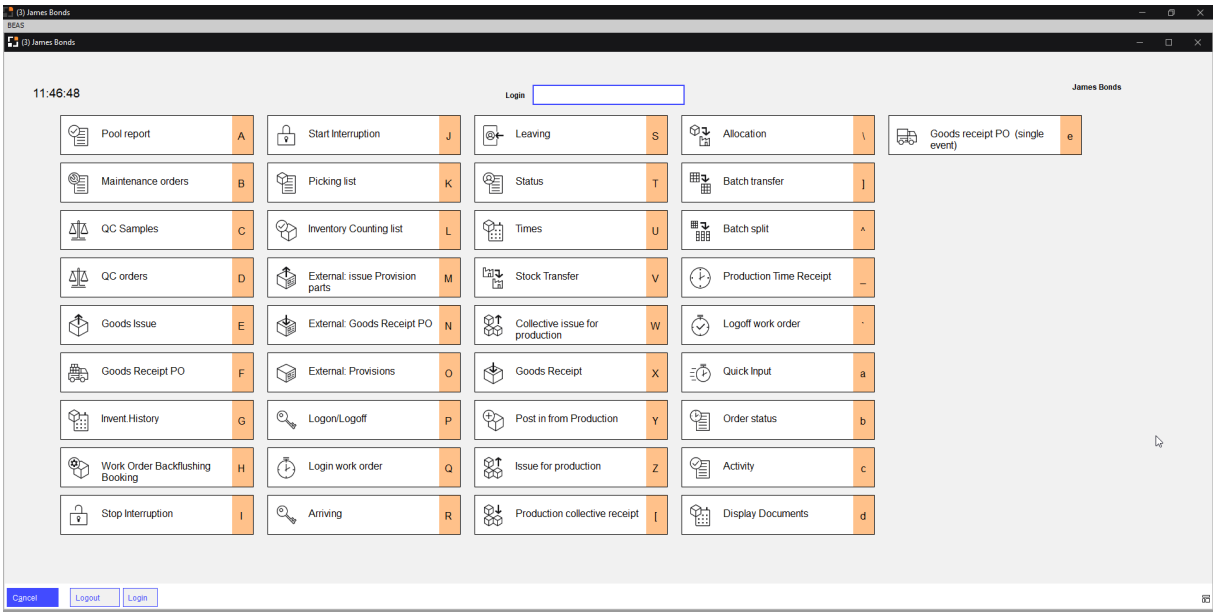
Via Terminal Functions you can edit the Apps of the default Program group "Terminal".
Here you can define, which functions (apps) the user can use
See Desktop Terminal, WEB APPS Version 1.0 and WEB APPS Version 2.1

Alternatively, call up from **Administration > Utilities > Program group Administration > Terminal**

© 2026 Boyum IT Solutions A/S

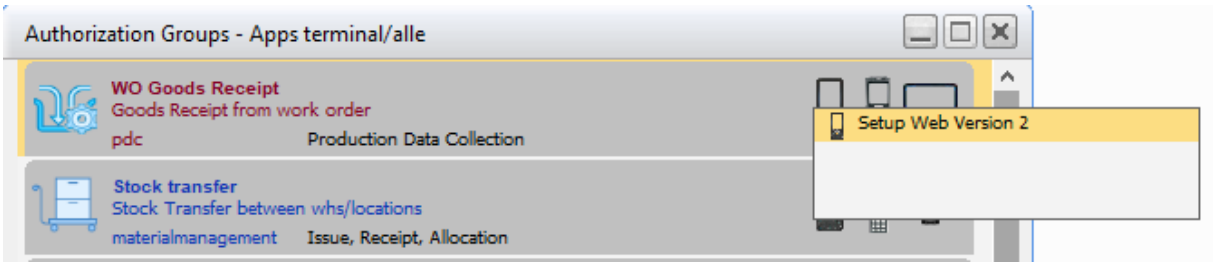
Open Configuration Wizard > Terminal and WEB APP for definition of basic settings and authorization.
Call up apps via PC Terminal or via WEB – solution. ***See*** Terminal.

In the Authorization groups you can set up which apps are available for which authorization groups.
See Terminal Apps Catalog, Personnel master data – Authorization group



Window menu_ entry_ to.psr

By clicking on the WEB / Desktop Symbol you can open the App settings:



The order of the apps in the list can be changed by drag-and-drop.

In the new WEB APP (Version 2) you can only see Apps with this Symbol

In the old WEB APP (Version 1) you can only see Apps with this Symbol

Apps available only for the Desktop Terminal appear with this icon:

© 2026 Boyum IT Solutions A/S

See

Personnel – Basic data – Terminal Functions

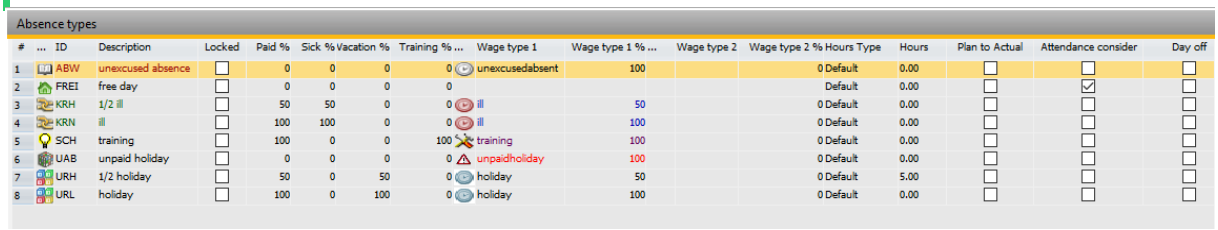
Program group Administration

11.7.2 Absence Types

Any absence types such as vacation, sickness, etc. can be defined in this window.
Its characteristics can be defined here.

For the personnel, the absences are entered under personnel / absences. Only one absence per day is possible.

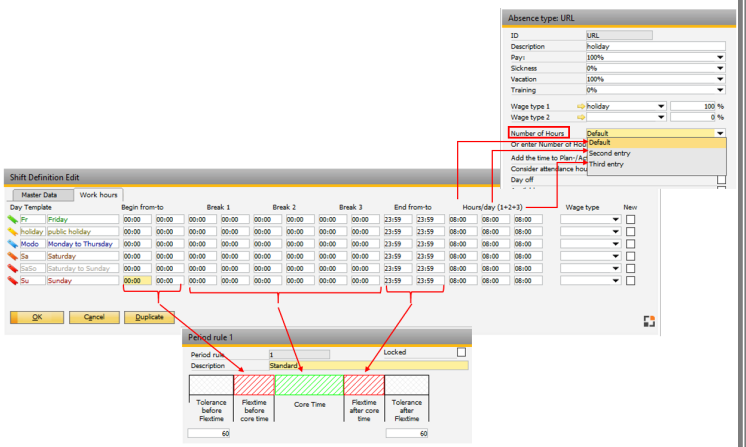
PATH: Human Resources > Master data > Absence types.



Window bde_abwesenzeitart_browse.psr

Field	Description
ID	ID for the absence type.
Description	Detailed description of the absence type.
Paid %	Determines if the number of hours calculated here should be counted in the ACTUAL hours.
Sick %	Credit number of hours to the sickness account? How many percent of the hours determined if applicable.
Vacation %	⊟ Absence is subtracted from vacation account. If you enter a %-value, this value will be subtracted from vacation account. ***Example***: **Definition**: **1 Day vacation**: Entry 100%, Pay Yes, consider presence hours: No. **Definition**: **1/2 Day vacation:** Entry 50%, Pay Yes, consider presence hours: Yes.

© 2026 Boyum IT Solutions A/S

	Definition: **Unpaid vacation:** Entry 0%, Pay No, consider presence hours: Yes.
Training %	Book number of hours to the training account? If yes, how many percent of the hours.
Wage type	Hours can be booked to two wage types. The next column displays the %-value of the total number of hours. ***See*** wage types. beas9.0-004-000-000, wagetype1 wagetype1pc, wagetype2, wagetype2pc
Number of Hours	Type of hour determination An entry can be made in the shift definition specifying the number of hours the employee should work in a day. Up to 3 times can be stored. This is useful if a certain quota of hours should be built up while present which can be depleted again through free days but this account should not be controlled through the flextime account and should also not be built up again in case of vacation and sickness. For this purpose, the actual plan number in addition to the buildup time is entered in the shift definition in the first plan number of hours and for the second plan number of hours, only the actual plan number is entered. The "Number of hours 2" is then selected for the absence type. 

© 2026 Boyum IT Solutions A/S

or enter Number of Hours:	A definition can be made here to the effect that the plan number of hours should not be determined but predefined. **Warning**: This type of hour determination should not be used since it does not take holidays, period rule, shift definitions, factory calendar and day templates into account.
Add the time to Plan-/Actual Time	The time determined is credited to the actual and plan time account. This is useful when holidays should be entered as plan and actual hours. However, each holiday must then be entered for each person as absence. This option must be disabled for vacation and sick calls.
Add Attendance	A person can still be present in case of an absence, e.g. if the person only has half a vacation day. Define in this case that the person's presence is to be added. If the person takes a whole day of vacation, then, in the normal case, his or her actually illegal presence should not be added because the actual hours would then be rated twice - once through the presence and once through the vacation.
Day off	If enabled, this day is considered as leisure time, independent of the factory calendar. If activated, this day is leisure time. In column "plan" of the time evaluation independent of the factory calendar, always 0 will be displayed and calculated. The following ***examples*** are to explain the possible outcome of the new option: Regular working time is 8 hours. Vacation: payment 100%, vacation 100%, day off: No => Plan: 8 hrs, actual: 8 hrs, difference: 0 hrs, vacation: 8 hrs. Vacation: payment 0%, vacation 100%, day off: Yes

© 2026 Boyum IT Solutions A/S

	=> Plan: 0 hrs, actual: 0 hrs, difference: 0 hrs, vacation: 8 hrs. Vacation: payment 100%, vacation 100%, day off: Yes => Plan: 0 hrs, actual: 8 hrs, difference: -8 hrs, vacation: 8 hrs. Note: with more than one absence a day it is enough to enable this option for one entry.

Special case: Two absences per day

Only one absence can be entered per day and person.

If the person is sick for half a day and on vacation for half a day, another absence type must be created:

Vacation: 50%

Sick: 50%

Pay: 100%

Thus, any feasible combination is possible.

Example: 50% paid vacation, 50% unpaid vacation:

Vacation 50%

Pay 50%

11.7.3 Wage types

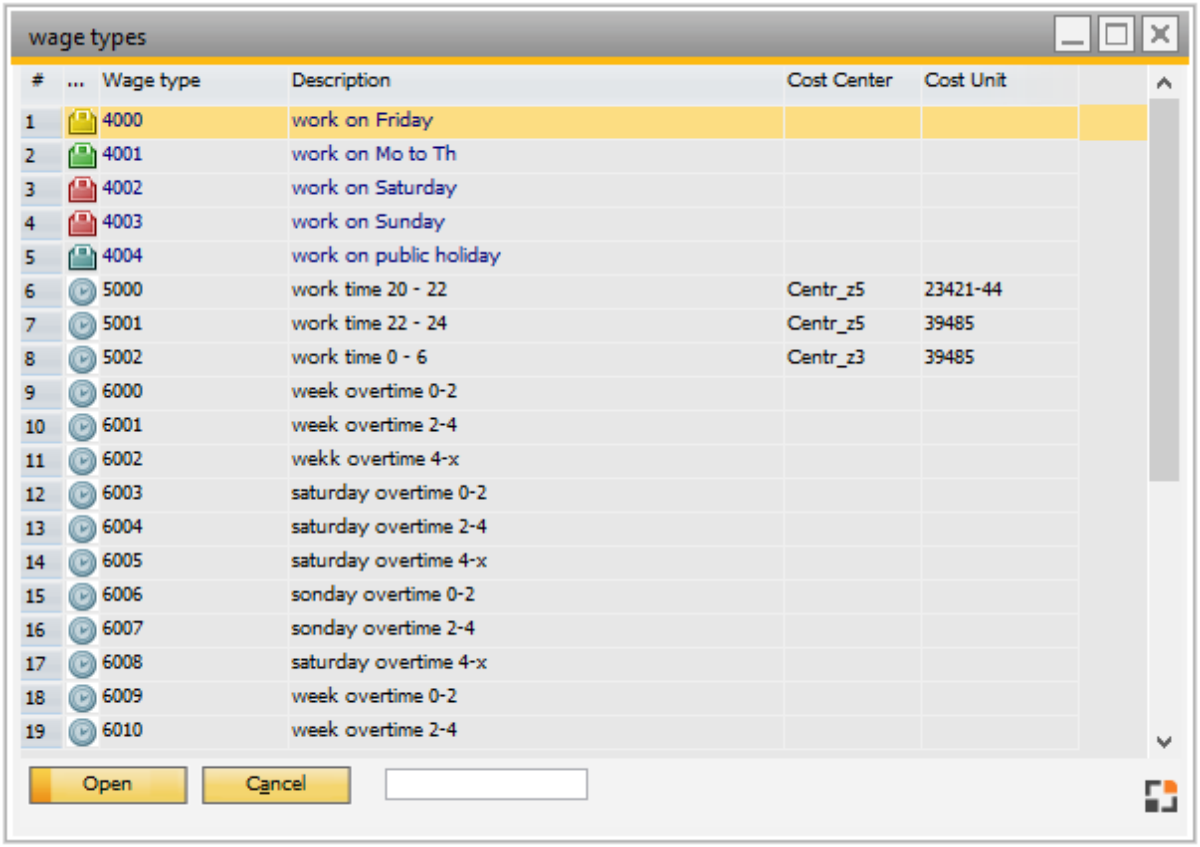
Store wage types in this window. Defined wage types can be evaluated using function time evaluation.

The editing list supports window settings. You can create, edit and delete entries.

Wage types can be stored in absence types, shift definition and period rule.

PATH: Human Resources > Master data > Wage types.

© 2026 Boyum IT Solutions A/S



Window wagetype_browse.psr

Field	Description
Wage type	Unique wage type ID. No subsequent change possible. *Field: wagetype*
Description	Description of wage type.
Cost center	Optional: cost center. Own reports can be created. *Field: kstst_id*
Cost unit	Optional: cost unit. Own reports can be created. *Field: costcarrier*
UDF1..4	Additional freely definable fields.
Bitmap, Color	Image and color to make the entry more visible.

Table: beas_wagetype
Window: wagetype_browse, wagetype_edit
beas9.0-004-000-000

© 2026 Boyum IT Solutions A/S

11.7.4 Period rule

Period rule

Edit period rule

Rounding rule

Hourly surcharge

Time domain

Extended

In period rules rounding rules and surcharges are defined.

PATH: Human Resources > Master data > Period rule.

Window bde_stdrgl_browse.psr

- Determination of period rule

  Assignment by priorities (highest first)
  1. Directly in the registered Attendance entry
  2. Shift definition
  3. Personnel – standard work hours
  4. Personnel – master data

This list can be adjusted dynamically via window settings.

Functions

Function	Description
Open	Edit period rule.
Add	Create new period rule.
Remove	Delete period rule. It is recommended to block it only.

© 2026 Boyum IT Solutions A/S

Duplicate	Copy period rule to clipboard. Then it can be duplicated or inserted to another database.
Insert	Insert period rule from clipboard.
Window settings	Adapt columns.

Tabs

Rounding rule

Hourly surcharge

Time area

Extended

See:

Shift Definition

Structure of a shift

Calculating a working time

Flextime accounts

11.7.4.1 Edit period rule

Period rule

Edit period rule

Rounding rule

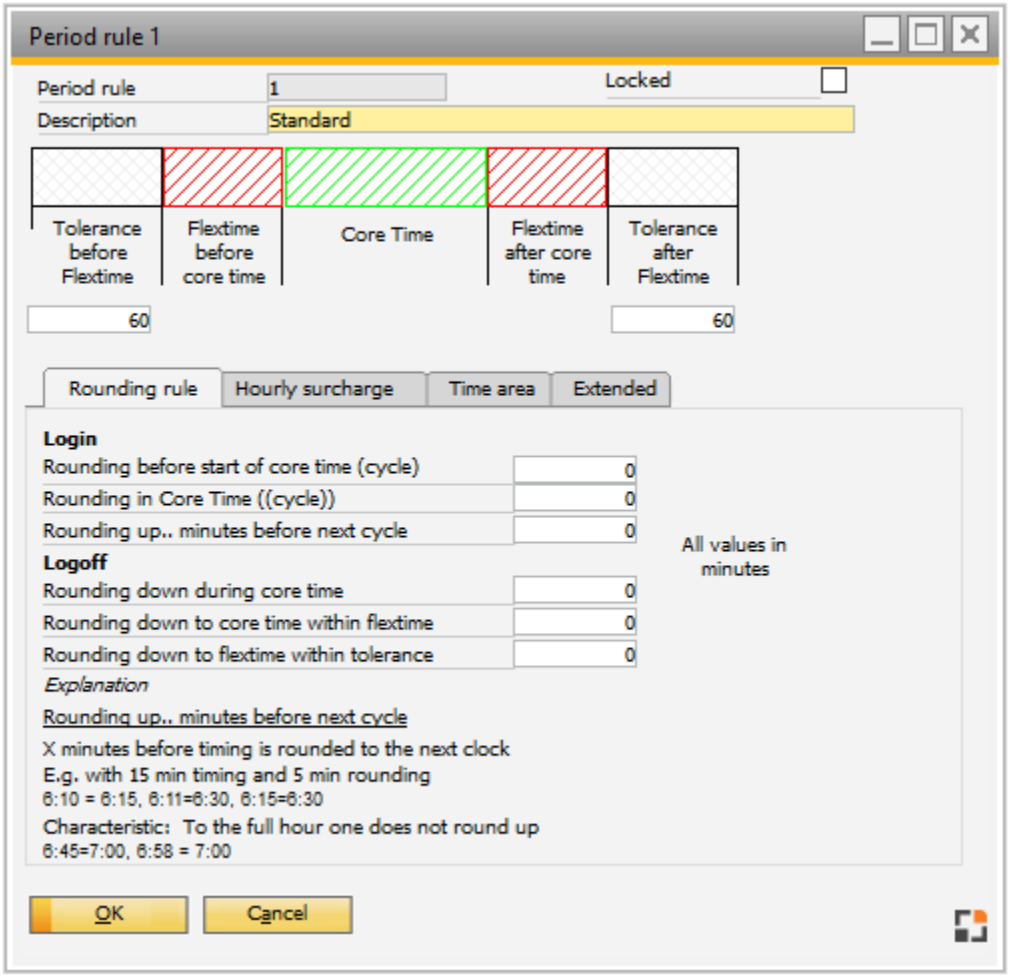
Hourly surcharge

Time domain

Extended

PATH: Human Resources > Master data > Period rule > **Open / Add**.

© 2026 Boyum IT Solutions A/S



Window bde_stdrgl_edit.psr

Field	Description
Period rule	Unique ID to identify the period rule.
Description	Description of the period rule.
Locked	If enabled, period rule cannot be selected.
Tolerance before / after flex time	Determines tolerance in minutes before and after flex time. ***See*** Structure of a shift Rounding rule

Tabs

Rounding rule Determination of the rounding rule for arriving and leaving

© 2026 Boyum IT Solutions A/S

Hourly surcharge for overtime

Time domain determine surcharges for certain time domains

Extended store color settings or an image

11.7.4.1.1 Rounding rule

Period rule

Edit period rule

Rounding rule

Hourly surcharge

Time domain

Extended

Rounding rule

Times can be rounded with the rounding rule. If a rounding time of 5 minutes is entered, then rounding takes place at a 5 minute interval to the employee's disadvantage. The calculation begins from the start of the flexitime according to the regular working hours. If the latter is 7 o'clock, the interval starts from 7 o'clock in 5 minute increments, that is 7:00, 7:05, 7:10, etc. If the employee begins at 6:56, his time starts counting from 7 o'clock._
At logoff, it is the other way around:
The calculation starts again at the begin of the shift, that is, 7 o'clock. If the employee leaves at 16:04, logoff actually takes place at 16:00 h.

Since rounding is not to apply during lunch and/or during the breaks, the shifts are divided into several zones: Before the shift, during flextime begin, flextime end and after the shift. In between is the core time. There is no rounding during this time but it can be set.

A special scenario is the setting for "rounding up .. minutes before next cycle"
You can set that rounding to the next but one interval is made - to the employee's disadvantage - but not at the full hour. This setting can be used to achieve that not all employees access the terminal all at the same time, and that they begin at the full hour.

Example:

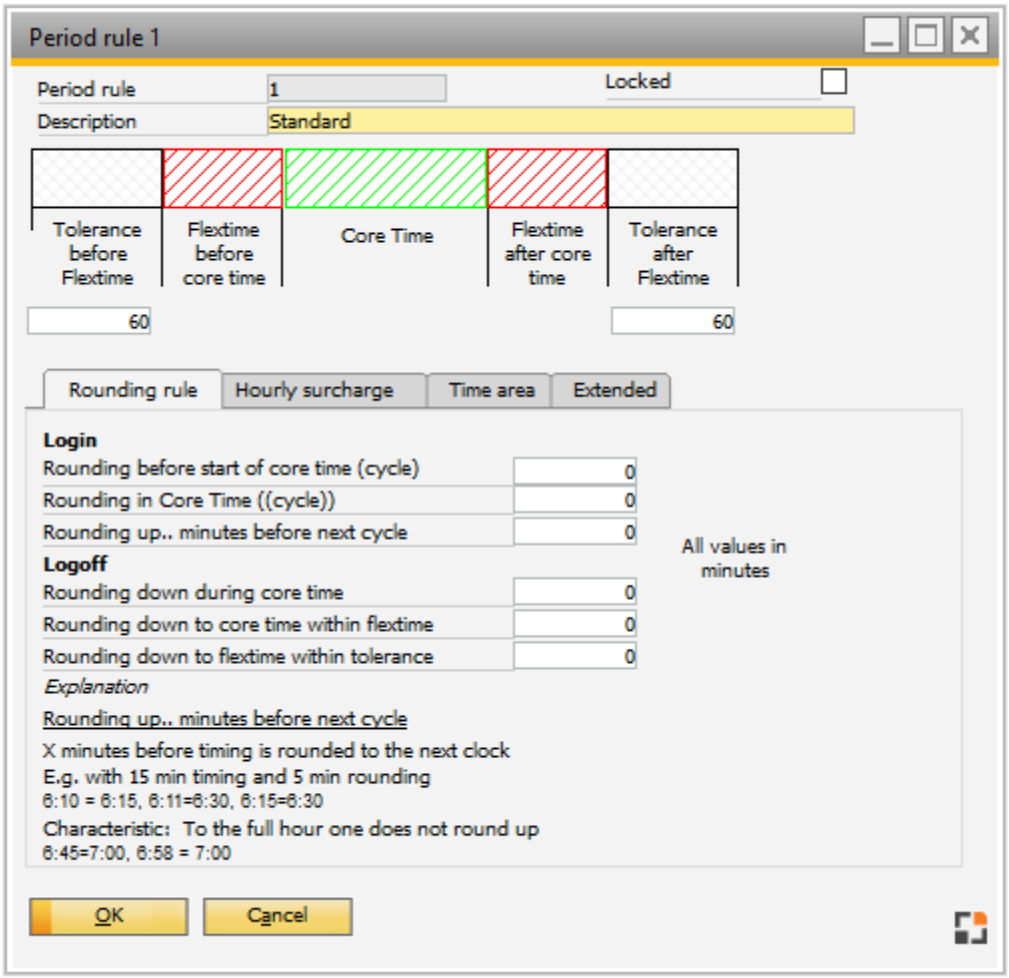
15 minute interval, rounding up 5 minutes

Clock in	Calculated from
6:10	6:15
6:11	6:30

© 2026 Boyum IT Solutions A/S

Clock in	Calculated from
6:15	6:30
6:20	6:30
6:26	6:45
6:45	7:00 (full hour)
6:59	7:00 (full hour)

PATH: Human Resources > Master data > Period rule > "Edit"/"New" > Period rule XXX > "Rounding rule" tab.



Window bde_stdrgl_edit.psr

Field description

Field	Description
Tolerance before Flextime	Time to be included in minutes before flextime begin. A separate rounding rule can also be stored here. Presences and order clocking

© 2026 Boyum IT Solutions A/S

	are computed during this time.
Tolerance after Flextime	Time to be included after end of flextime. Again, a separate rounding rule can also be stored here.
Rounding up within Tolerance	Number of minutes for rounding up during the defined tolerance.
Rounding up after Tolerance	Is used when a logon occurs after the tolerance – then applies to all subsequent times .
Rounding up .. Minutes Before Next Cycle	Rounding up to the next full hour or the next interval but one if logon xxx minutes before end of next interval.
Rounding down During Core Time	Rounding rule for logon in core time.
Rounding down to Core Time within Flextime	Rounding rule for logoff after core time before tolerance.
Rounding down after flextime within tolerance	Rounding rule during tolerance.

11.7.4.1.2 Hourly surcharge

Period rule

Edit period rule

Rounding rule

Hourly surcharge

Time domain

Extended

Overtime hours can be displayed separately and added on wage types. Per work day, Saturday and Sunday as well as per week three surcharge areas are available.

- Surcharge areas

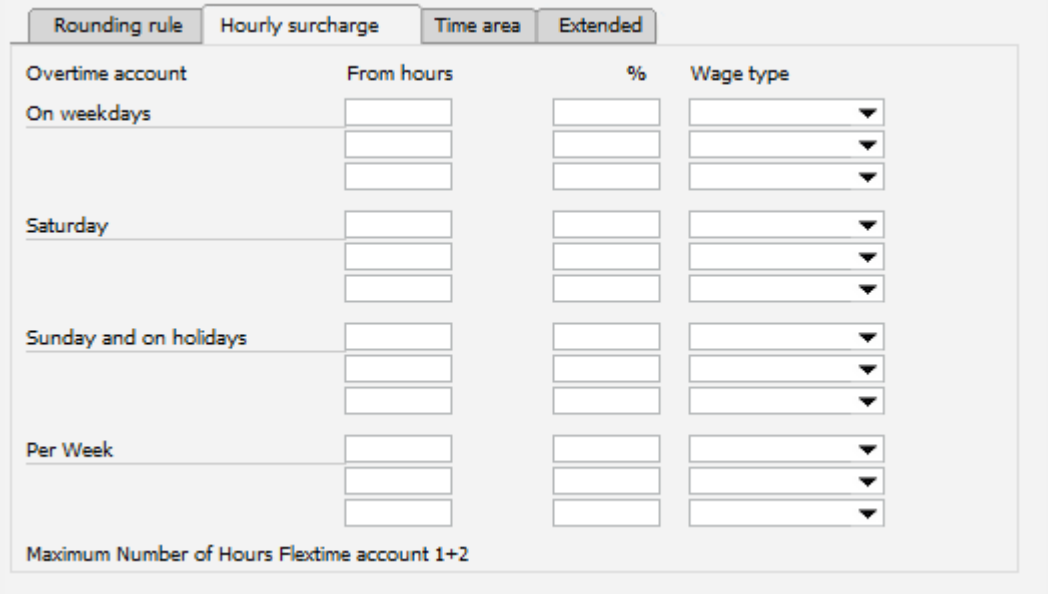
Work days	Monday to Friday except holidays
Saturday	Saturday except holidays
Sunday	Sunday except holidays
Weekly sum	Result of a weekly sum

NOTE:

© 2026 Boyum IT Solutions A/S

For weekly sums the period rule is used, which is stored in personnel master. For all other surcharge areas the period rule is determined from Personnel – Standard work hours or depending on the first attendance report of the day.

PATH: Human Resources > Master data > Period rule > **Open / Add** > Period rule XXX > "Hourly surcharge" tab.



Window bde_stdrgl_edit.psr

Field	Description
From hours	3 fields "from hours" are available An empty field means, the value is ignored. Values need to be entered in correct order: first, second, third. Example: ***Example 1:*** Work day surcharge 1. Entry: 0, wage type 6000 2. Entry: 2, wage type 6001 3. Entry: 4, wage type 6002 If the employee has 5 overtime hours, he will receive:

© 2026 Boyum IT Solutions A/S

	wage type 6000 = 2 hours wage type 6001 = 2 hours wage type 6002 = 1 hour ***Example2:*** Work day surcharge 1. Entry: 1, wage type 6000 2. Entry: 2, wage type 6001 3. Entry: 4, wage type 6002 If the employee has 5 overtime hours, he will receive: wage type 6000 = 1 hours wage type 6001 = 2 hours wage type 6002 = 1 hour
%	Percentage of overtime hours saved to the wage type. In time evaluation the %-values are not considered, only in sum values of the wage types. Default value / empty field = 100% Example: Work day surcharge 1. Entry: 0, wage type 6000, 100% 2. Entry: 2, wage type 6001, 120% 3. Entry: 4, wage type 6002, 150% If the employee has 5 overtime hours, he will receive: wage type 6000 = 2 hours wage type 6001 = 2,4 hours wage type 6002 = 1,5 hours
Wage type	Specify a wage type to which times are saved.

Accounts

Two flextime accounts are available In **Personnel > Standard work hours > account planning** you can define, to book overtime hours to which account.

© 2026 Boyum IT Solutions A/S

Overtime is defined in period rules, stored in personnel master.

Account 1/ 2	Max. hours permitted for two flextime accounts Each employee has two time accounts. In the Personnel – Standard work hours – Account planning can be defined, on which account his planned time and actual time for a specific day has to be saved. All reported times will then be booked to the according account. The value entered here, corresponds to the max. number of overtime hours, which may be booked to this account. Anything beyond that will be transferred to the overflow account. ***Example***: An employee is allowed to work max. 30 hours overtime. All hours above this are booked to the overflow accounts. Deactivate the overflow account Enter "-1" here to deactivate the function. This will be used if there is no planned time for the employee and only his pure attendance has to be counted. For further information ***see*** Flextime account The time accumulated here can be booked to a wage type. The wage type and the %-value can be stored for this purpose.
Rollover account	Enter the wage type to which the hours from the rollover account will be added. Value is multiplied with the given %-value.

11.7.4.1.3 Time domain

Period rule

Edit period rule

Rounding rule

Hourly surcharge

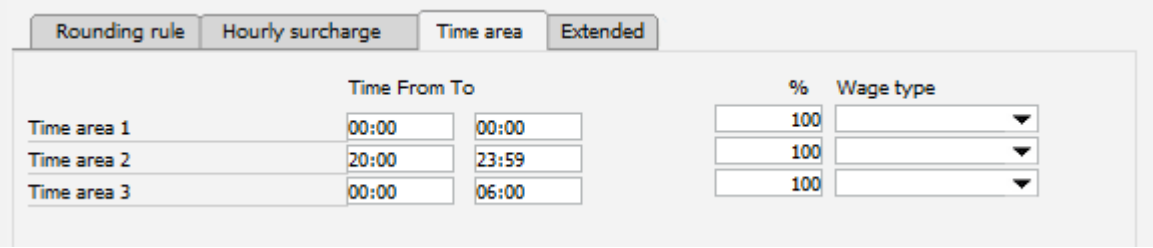
Time domain

Extended

© 2026 Boyum IT Solutions A/S

In **Period rule > Time domain** you can set hours for specific time domain as night can be identified separately and wage types can be assigned.

PATH: Human Resources > Master data > Period rule > Open / Add > Period rule XXX > "Time area" tab



Window bde_stdrgl_edit.psr

Up to 3 time areas can be defined. A time domain beyond midnight is allowed. *(beas 9.2 PL: 01)*
The time areas are displayed rightmost in time evaluation in columns 1, 2, 3 and in final sum. In Time evaluation – Report definition the header can be set up.

- Example:

Consecutive times
Time area 1: 20 – 22
Time area 2: 22 – 24

Employee works from 18 to 23
2 hours are saved to time domain 1
1 hour i saved to time domain 2

Overlapping times
Time area 1: 20 – 22
Time area 2: 20 – 24

Employee works from 18 to 23
2 hours are saved to time area 1
3 hours are saved to time area 2

Work over midnight
A time over midnight can also be indicated in the area e.g. 22:00 - 03:00 *(beas 9.2 PL: 01)*

© 2026 Boyum IT Solutions A/S

To be considered at beas Version before 9.2 PL: 0.1

A time area beyond midnight is not allowed. In this case do the following:

Time area 1: 22:00 - 23:59
Time area 2: 00:00 - 03:00

Although 23:59 was indicated, is actually calculated to 24 hours.
Means employee works from 21 - 2, it is calculated as follows:
Time area 1: 2 hrs.
Time area 2: 2 hrs.

For time domains you can define

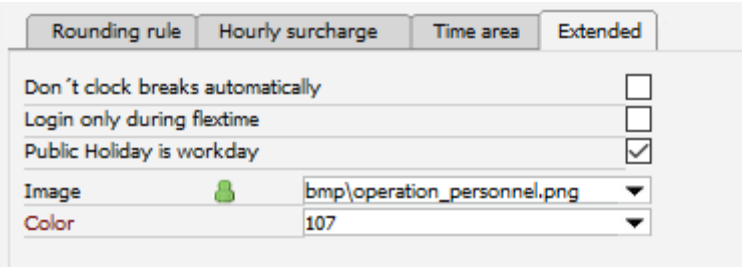
Field	Description
Time from	Time area. Time TO needs to be greater than time FROM.
%	Percentage value, considered as surcharge for a wage type. Default = 100% Example Time area 1: 20 – 22 o'clock, 50% on wage type 500 Employee works from 18 – 22 Result: 2 hours for time area 1 but only 1 hour on wage type 500
Wage type	Wage type to which times are saved.

11.7.4.1.4 Extended

Period rule
Edit period rule
Rounding rule
Hourly surcharge
Time domain
Extended

PATH: Human Resources > Master data > Period rule > **Open / Add** > Period rule XXX > "Extended" tab.

© 2026 Boyum IT Solutions A/S



Window bde_stdrgl_edit.psr

Field	Description
Don't clock breaks automatically	Breaks can be defined in the regular working hours. Normally, they are automatically deducted from the presence. This switch can be activated if this is not desired.
Login only during flextime	If this switch is active, the employee can only logon and logoff during the flextime defined in the regular work hours. Logon/logoff is not possible outside of these times. The employee must then report to the supervisor. In case of logoff, the following error message appears: "(bde:abmeldng4): You logged off outside of flextime (...)" or as short message. "Outside flextime". ***See*** App "Leaving".
Public holiday is workday	Define the behavior of holidays If active, a public holiday will be treated as a normal workday, as long as it is not Saturday or Sunday. A public holiday in the factory calendar will be defined by setting availability to < 100%. *beas 9.2 PL: 01 BEAS_STUNDENREGEL.HolidayWorkDay (1/0)*
Image	Image for that entry.
Color	Color for that entry.

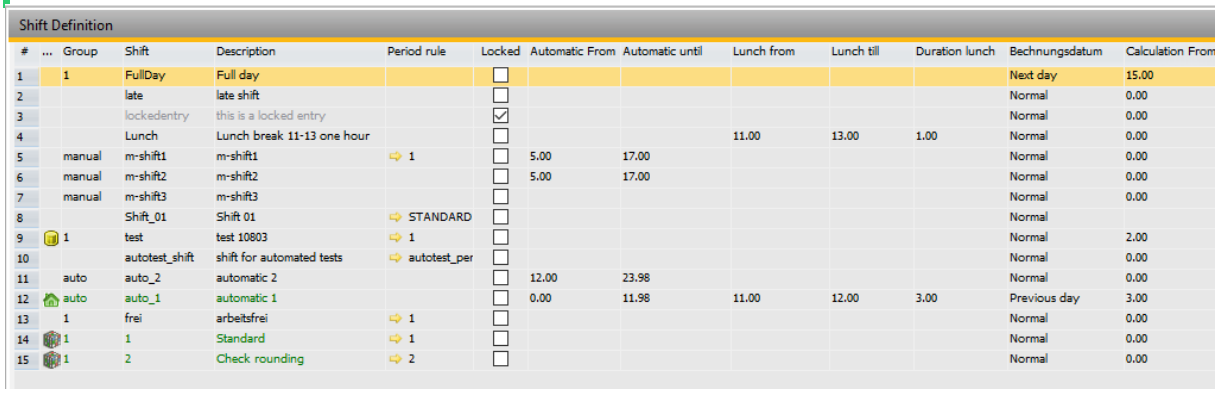
11.7.5 Shift Definition

The working time for a shift is defined in this window. This can be entered separately for each Day Template.

For detailed documentation, ***see*** chapter Structure of a shift, Shift scheduling.

© 2026 Boyum IT Solutions A/S

PATH: Human Resources > Master data > Shift Definition.



Shift Definition

#	...	Group	Shift	Description	Period rule	Locked	Automatic From	Automatic until	Lunch from	Lunch till	Duration lunch	Bechnungsdatum	Calculation From
1		1	FullDay	Full day		☐						Next day	15.00
2			late	late shift		☐						Normal	0.00
3			lockedentry	this is a locked entry		☑						Normal	0.00
4			Lunch	Lunch break 11-13 one hour		☐			11.00	13.00	1.00	Normal	0.00
5		manual	m-shift1	m-shift1	1	☐	5.00	17.00				Normal	0.00
6		manual	m-shift2	m-shift2		☐	5.00	17.00				Normal	0.00
7		manual	m-shift3	m-shift3		☐						Normal	0.00
8			Shift_01	Shift 01	STANDARD	☐						Normal	
9		1	test	test 10803	1	☐						Normal	2.00
10			autotest_shift	shift for automated tests	autotest_per	☐						Normal	0.00
11		auto	auto_2	automatic 2		☐	12.00	23.98				Normal	0.00
12		auto	auto_1	automatic 1		☐	0.00	11.98	11.00	12.00	3.00	Previous day	3.00
13		1	frei	arbeitsfrei	1	☐						Normal	0.00
14		1	1	Standard	1	☐						Normal	0.00
15		1	2	Check rounding	2	☐						Normal	0.00

Window bde_schicht_browse.psr

Any number of shift definitions can be made. The allocation to Personnel is done via Personnel – regular hours or Personnel – shift schedule. For more information ***see*** Shift scheduling.

Configuration

Shift definition list

- Edit shift definitions
- Working time

List shift definition

All available shift definitions are displayed in the overview list. You can create, edit, and delete definitions using this. Window settings are supported.

Sorting

The list can be sorted in by right-click on column header or by drag & drop (click on "group" field). For drag&drop an authorization is required ***See*** Authorizations
After changing the sorting, a button "save sorting" is displayed. Click it to save the change.

See:

Configuration of a shift
automatic shit determination
Day template
Period rule
Absence types
Change log

© 2026 Boyum IT Solutions A/S

11.7.5.1 Edit shift definition

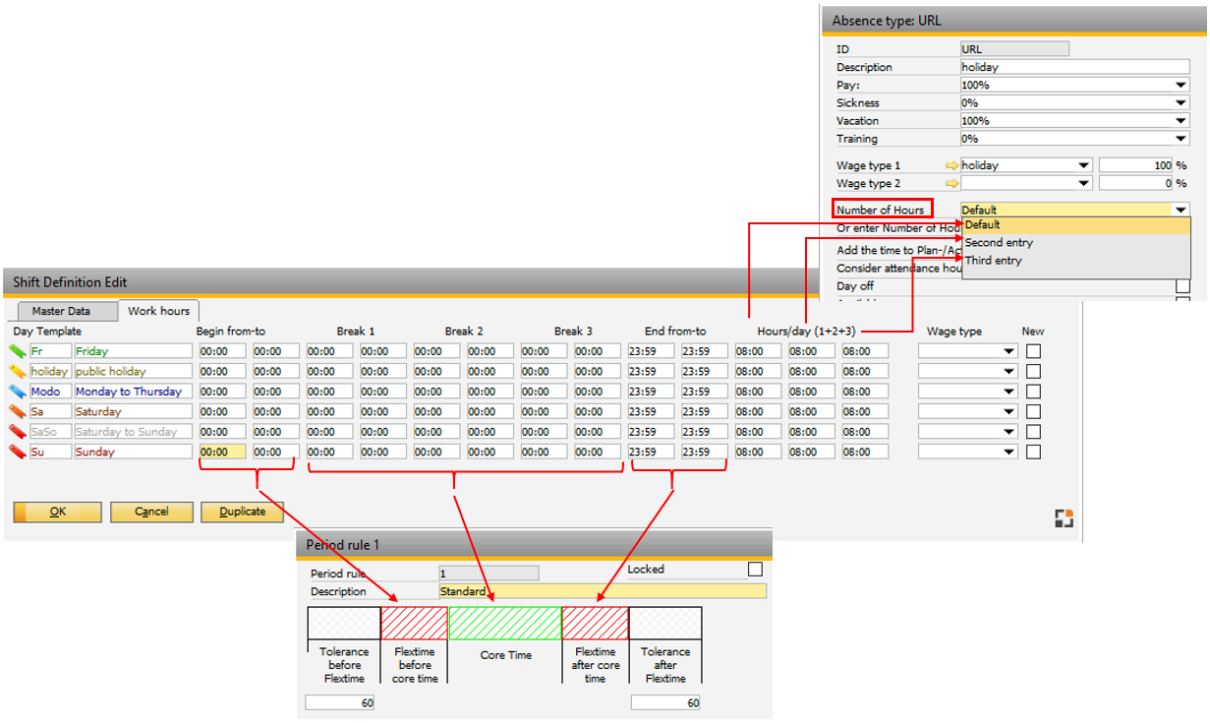
Shift definition list

Edit shift definitions

Working time

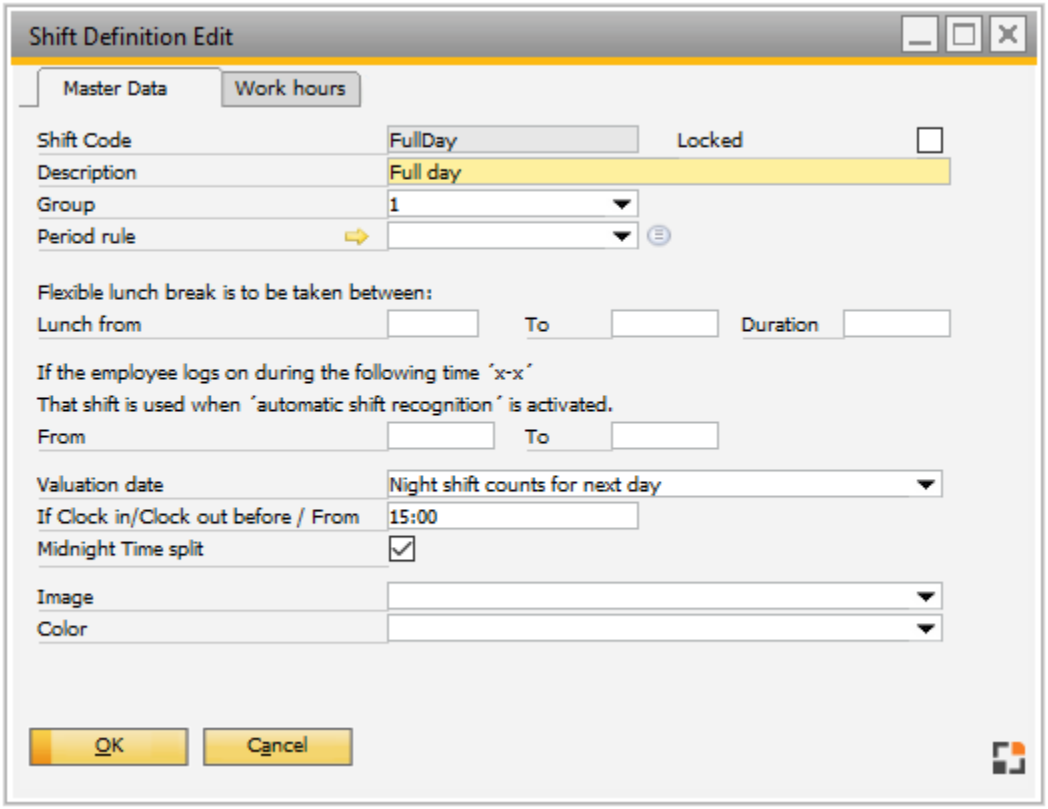
In this window you can edit shift definitions.

PATH: Human Resources > Master data > Shift Definition > **Open/Add**.



Master data tab

© 2026 Boyum IT Solutions A/S



Window bde_schicht_edit1.psr

Function	Description
Shift Code	Identification of the shift definition.
Description	Description of the shift.
Locked	If the entry was blocked it is no longer available for selection.
Group	The Group field allows subdivision into groups for better management or display without added functionality.
Period rule	Set a period rule to the shift. The period rule entered here has a higher priority than the one entered in the personnel master data. ***See*** Period rule.
Lunch from, To, Duration	Set a time range for a lunch break for a flexible lunch break. For more information ***see*** Flexible lunch break.
Shift detection from to	If the automatic shift detection was activated under Personnel / Regular hours, the time range defined there is taken into account. For more information ***see*** Automatic shift scheduling.

© 2026 Boyum IT Solutions A/S

	If "manual shift selection" is set, this time range is also considered. ***See*** Edit shift model – Manual selection.
Valuation date	Defines the day on which this shift is calculated: • Night shift included in next day: If there is a login after the time specified here, the time-related message relates to the next day. This allows you to keep the times of a shift together in the time analysis. • Early shift included in previous day: If there is a login before the time specified here, the login belongs to the previous day. It is possible to perform a Midnight Time split by activating the corresponding field. **IMPORTANT**: The "Midnight split" function is ONLY available for logging time in the terminal solution!
Image	Assign an image for the shift.
Color	Assign a color for the shift.

11.7.5.2 Working time

Shift definition list

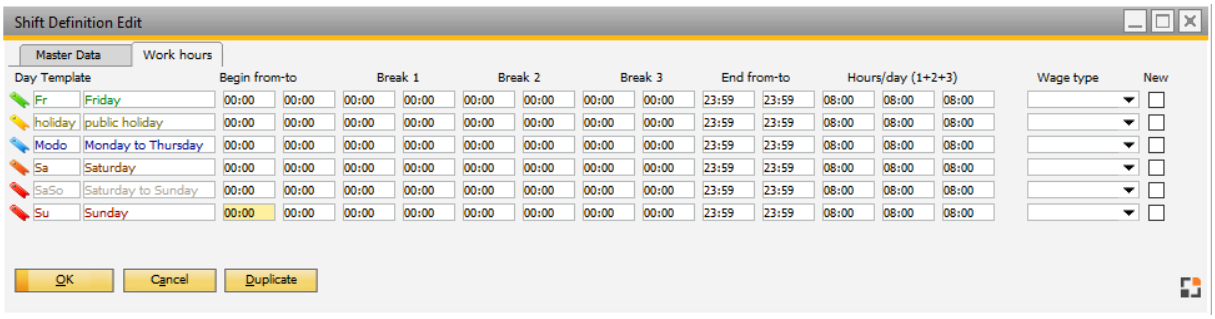
Edit shift definitions

Working time

Tab Work hours

For detailed information, ***see*** Structure of a shift

Begin from-to



Window bde_ schicht_ edit1.psr

Function	Description

© 2026 Boyum IT Solutions A/S

Day Template	For every Day Template the working hours must be defined separately. New day templates (not stored in shift definition previously) are marked red.
Begin from-to	The beginning of the shift. It is a range for defining flextime. This is for information only. This information comes automatically from the Time before Core Time from the period rule.
Break 1-3	A break in the shift. It is a range for defining flextime. Up to 3 breaks are available per day in the template. This information comes automatically from the Core Time from the period rule. ***See*** break definition in period rules.
End from-to	The end of the shift. It is a range for defining flextime. This is for information only. This information comes automatically from the Time After Core Time from the period rule.
Day/hours 1-3	Define a time for this shift. If a different number of hours is to be used as reference for certain Absence Types, two additional times can be specified.
Wage type	To this wage type the accumulated times of this line (day template) are posted.
New	A check mark designates a new day template, which was not stored in shift definition before.

Simplified input:
It is sufficient to determine the first line. Subsequently, the input can be DUPLICATED to the remaining Daily Schedule .

see

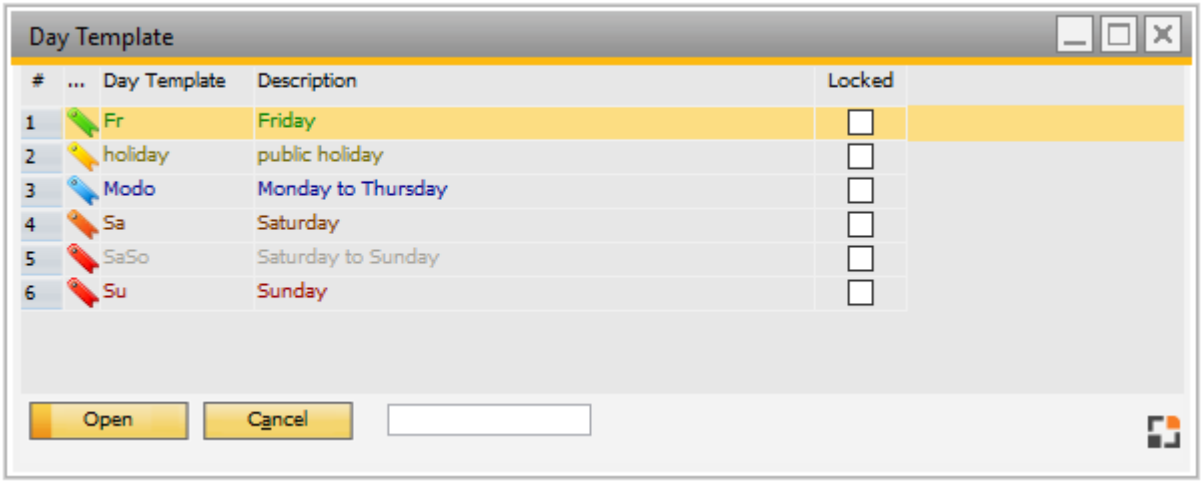
Structure of a shift
Automatic shift scheduling
Daily Schedule
Period rule
Absence Types

11.7.6 Day template

Regular work hours (shifts) may depend on the weekday. These can be stored as a day template which is available as a row in Shift definition. A day template, in turn, is stored to a specific day in the factory calendar.
In this window you can manage day templates. Setup an ID, description and a color.

PATH: Human Resources > Master data > Day Template.

© 2026 Boyum IT Solutions A/S



Window bde_tagmuster_browse.psr

Example:

Work is done from Monday to Thursday from 8-17h, on Friday only from 8-15h and on Saturday/Sunday no work is performed. 3 Day templates can best be created here: Mon–Thu Monday–Thursday Fri Friday Sat-Sun Saturday and Sunday

In the factory calendar, the day template Mon–Thu is now assigned to the days Monday to Thursday, Fr to Friday and Sa-Su Saturday+Sunday.
In the Shift definition, the day template entries defined here are now available as rows and the working time can be defined separately for each row.

Note:

If a day template is inserted as new, all shift definitions need to be reviewed. Open Shift definition, select every definition, edit work times add the new row and click on "update".

See

Shift definition

Factory Calendar

Structure of a shift

Special case half day work on December 24th and 31st

© 2026 Boyum IT Solutions A/S

If the 24th and 31st of December are to be counted as half work day, set the day to 50% in factory calendar.

In case of vacations on 24th or 31th of December a whole day needs to be entered. According to factory calendar only a half day will be subtracted. The Time evaluation provides a possibility to check.

11.7.7 Personnel Groups

The available personnel groups are administrated here. Only stored personnel groups can be entered in the personnel master that are stored here.

© 2026 Boyum IT Solutions A/S

12 Reports

From all modules reports can be created. All reports can be launched using the standard SAP Business One printing options

The following Crystal Reports are offered by Beas

Master data Report
QC Reports
Business performance Reports
Calculation Reports
Marketing Documents
Complaints Reports
Material Management Reports
Human Resource Reports

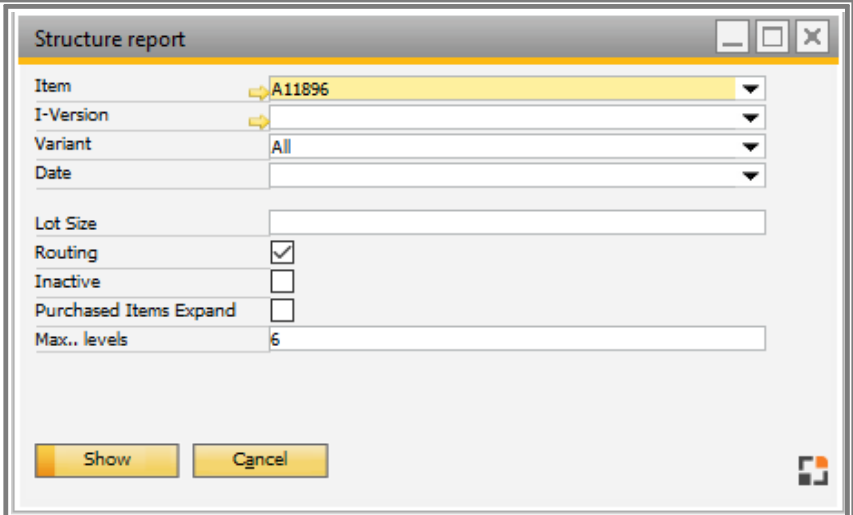
12.1 Reports Master Data

Any number of lists can be stored here for the "Master Data" area. In addition to the default reports, reports can be inserted using the "Window Settings" function (toolbar – gearwheel). For information about this question, please read the following documents: ***see*** Communication module. This window is also accessible via **item list, item processing, etc. > right-click > Report** .

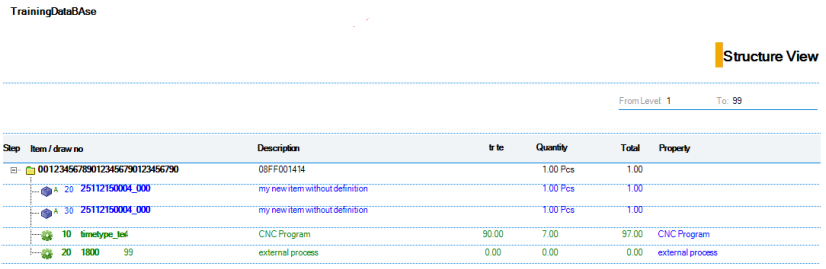
All reports are designed with Crystal reports and displayed with Beas report viewer.

Report	Meaning
Item structure	Detailed item structure data is displayed as crystal report: Parameter: ***See*** Structure report.

© 2026 Boyum IT Solutions A/S



The difference is only the output as **crystal report.**



Note:

The report support max. 6 Levels

Item Bill of Materials Single Level

Item Bill of materials are displayed as crystal report:

It displays all Bill of Materials entries of an Item.
It is a simple example for own crystal reports.

Bill of Materials not linked to Item will be ignored (for example Item Version control)

All visibility rules or version control are ignored.
Quantity is the "Quantity per consume unit".
All other Quantity information are ignored.

12.2 QC Reports

Quality Control reports provides details of the selected QC Order from the QC Orders screen. In addition to the default reports, reports can be inserted using the "Window Settings" function

© 2026 Boyum IT Solutions A/S

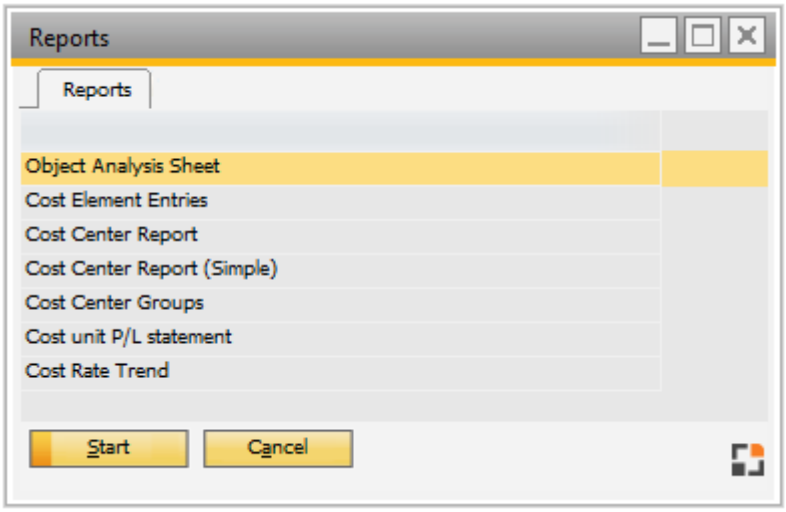
(toolbar – gearwheel). For information about this question, please read the following documents: ***see*** Communication module.
This window is also accessible via **QC Order > right-click > Report** .

All reports are designed with Crystal reports and displayed with Beas report viewer.

12.3 Cost Accounting Reports

The provided Business performance reports gives a detailed summary of Business performance data stored in the system .

The window is also accessible via **Financials > Business performance > Results > Reports** .



Window report_makro_start.psr

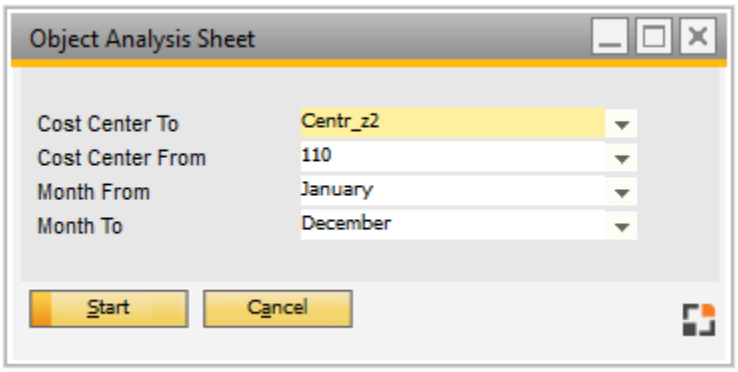
All reports are designed with Crystal reports and displayed with Beas report viewer.

Report	Meaning
Business performance	Provides Business performance details for the selected cost centers for the selected period.
Cost Element Entries	Provides Business performance details for the selected cost centers within the selected period.
Cost Center Report	A detail center report is presented for the selected cost centers for a selected period.
Cost Center Report simple	A summary center report is presented for the selected cost centers for a selected period.

© 2026 Boyum IT Solutions A/S

Cost Center Groups	Provides Business performance information for the selected cost types for the selected period.

Start: Click button to open the "Object Analysis Sheet":

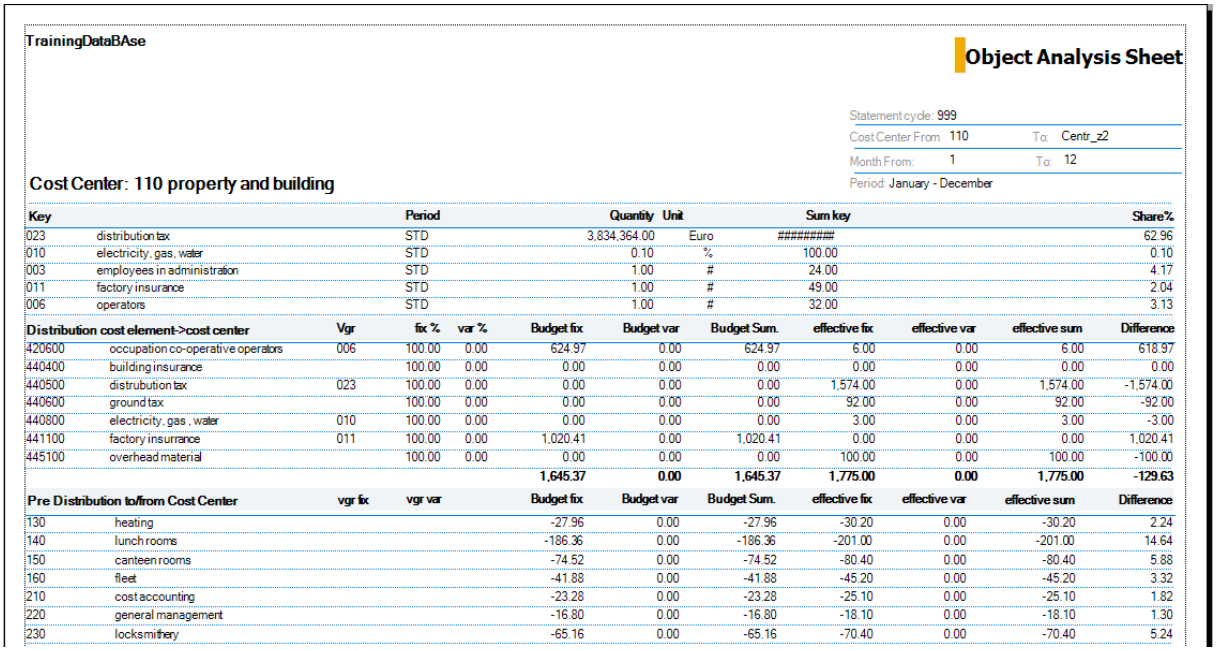


Window system_ auswahl.psr

Field Descriptions

Field	Meaning
Cost Center To	Select the end value of the cost center range for the analysis.
Cost Center From	Select the start value of the cost center range for the analysis.
Month From	Select the month to start from.
Month To	Select the month to end with.

Start: Click button to create Crystal report:



TrainingDataBAse

Object Analysis Sheet

Statement cycle: 999
Cost Center From: 110 To: Centr_z2
Month From: 1 To: 12
Period: January - December

Cost Center: 110 property and building

Key		Period	Quantity	Unit	Sum key	Share%
023	distribution tax	STD	3,834,364.00	Euro	########	62.96
010	electricity, gas, water	STD	0.10	%	100.00	0.10
003	employees in administration	STD	1.00	#	24.00	4.17
011	factory insurance	STD	1.00	#	49.00	2.04
006	operators	STD	1.00	#	32.00	3.13

Distribution cost element->cost center		Vgr	fix %	var %	Budget fix	Budget var	Budget Sum.	effective fix	effective var	effective sum	Difference
420600	occupation co-operative operators	006	100.00	0.00	624.97	0.00	624.97	6.00	0.00	6.00	618.97
440400	building insurance		100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
440500	distrubution tax	023	100.00	0.00	0.00	0.00	0.00	1,574.00	0.00	1,574.00	-1,574.00
440600	ground tax		100.00	0.00	0.00	0.00	0.00	92.00	0.00	92.00	-92.00
440800	electricity, gas , water	010	100.00	0.00	0.00	0.00	0.00	3.00	0.00	3.00	-3.00
441100	factory insurrance	011	100.00	0.00	1,020.41	0.00	1,020.41	0.00	0.00	0.00	1,020.41
445100	overhead material		100.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	-100.00
					1,645.37	0.00	1,645.37	1,775.00	0.00	1,775.00	-129.63

Pre Distribution to/from Cost Center		vgr fix	vgr var	Budget fix	Budget var	Budget Sum.	effective fix	effective var	effective sum	Difference
130	heating			-27.96	0.00	-27.96	-30.20	0.00	-30.20	2.24
140	lunch rooms			-186.36	0.00	-186.36	-201.00	0.00	-201.00	14.64
150	canteen rooms			-74.52	0.00	-74.52	-80.40	0.00	-80.40	5.88
160	fleet			-41.88	0.00	-41.88	-45.20	0.00	-45.20	3.32
210	cost accounting			-23.28	0.00	-23.28	-25.10	0.00	-25.10	1.82
220	general management			-16.80	0.00	-16.80	-18.10	0.00	-18.10	1.30
230	locksmithery			-65.16	0.00	-65.16	-70.40	0.00	-70.40	5.24

© 2026 Boyum IT Solutions A/S

12.4 Calculation reports

Calculation reports (both pre- and post-calculation) are a mirror image of the pre and post calculation windows in Beas.
This window is also accessible via **Calculation > Precalculation > Right-click > Report** and **Work Order > Right-click > Postcalculation > Start > Report** respectively.

All reports are designed with Crystal reports and displayed with Beas report viewer.

Report	Meaning
Precalculation	Selected Precalculation entry is displayed.
Post-calculation	Post-calculation data from the selected work order is displayed.

12.5 Marketing Documents

Beas provide reports for all SAP Business One marketing (Sales and Purchasing) documents.
The reports are accessible in all SAP Business One Sales and Purchasing windows.

Report	Meaning
All sales and purchasing documents	Like the SAP marketing documents, Beas supplies a report for all your marketing documents.

12.6 Complaint Reports

Complaint reports provide a detailed view on complaints data. This window is also accessible via **Material Management > Complaint > Reports complaint**.

All reports are designed with Crystal reports and displayed with Beas report viewer.

Report	Meaning
Reclamation by origin	Complaints data originating from internal, Sales and Purchase is displayed.
Reclamation by employee	Complaints data originating from employee is displayed.
Reclamation by item, supplier and project	Complaints data originating from projects is displayed.

12.7 Material Management Reports

An inventory count-list is provided to record the number of counted stock for the selected annual inventory count.

© 2026 Boyum IT Solutions A/S

This window is also accessible via **Materials management > Inventory > Annual Inventory Count > Inventory list button (at the bottom of the window) > Right-click > Report**

All reports are designed with Crystal reports and displayed with Beas report viewer.

Report	Meaning
Inventory count list	Inventory counting sheet is provided for items within the selected annual inventory count.

© 2026 Boyum IT Solutions A/S

13 SBO Menu View

SAP Business One Menu View

System information window

13.1 System information

You can call the system information with

The Debug-window has the following functions:
- Display table and column name of current column
- Display form name / window name
- Display executed Beas - scripts
- Display local and global initialized Beas - variables
- Display SAP Business One events
- Execute Beas - scripts

Overview Debug Functions

Send Debug Log to Support

Display field names

The system information is displayed in the first row of the debug window if a Beas-window is currently opened.
Information on the current field is displayed (where the mouse cursor is)
1. Form-Number (dw_1, dw_2, .. dw_6)
2. "item" - as note, if it is an item of a form
3. Field name
4. Field type
5. "Table:" + Table name, linked to the field
6. Form name. Generally a PSR-File + folder name

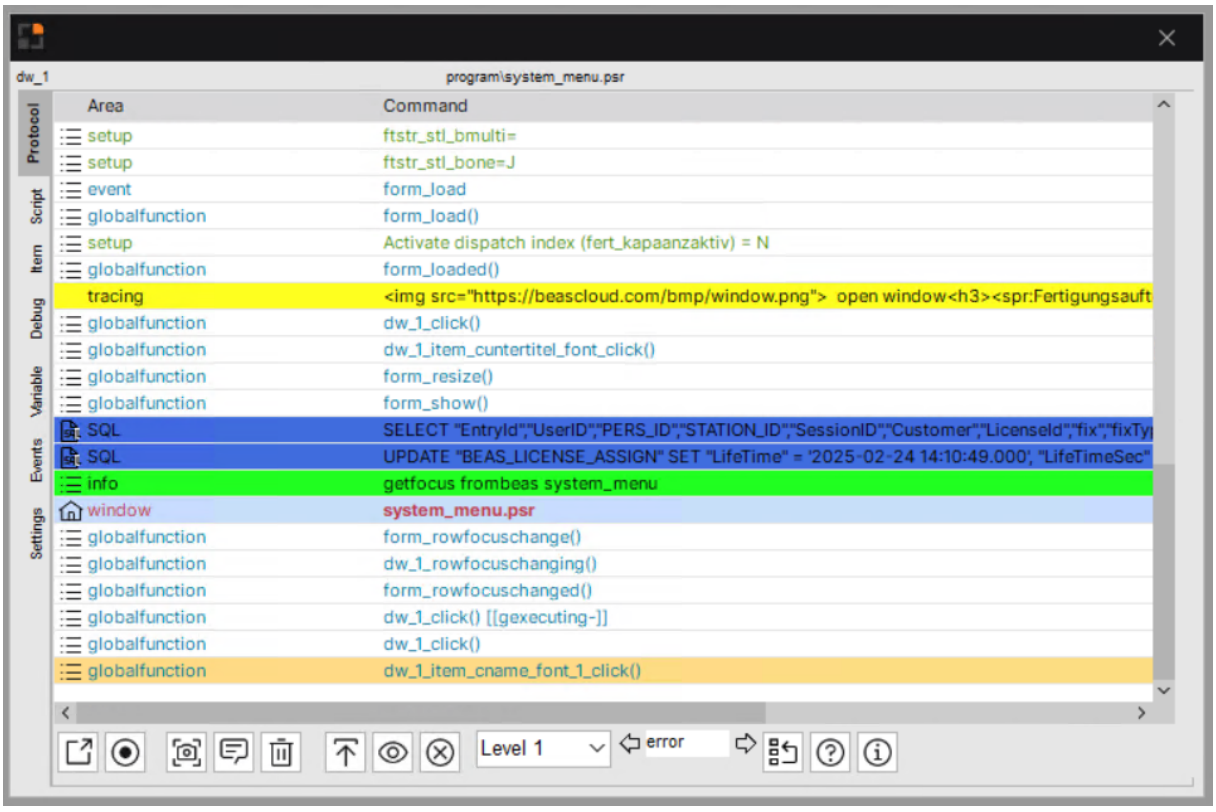
© 2026 Boyum IT Solutions A/S

In the Debug window you can view and edit all current events, SQL statements or scripts. Events are displayed in separate rows and in different colors.
Events on Level 1 are displayed with a yellow border around the window (***see*** image below) which changes to red once having switched to Level 2 and 3.

The color codes of the events are as follows:
Green: reading settings
Violet: calling functions
Orange: customized function
Red: error
Grey: window-specific event

PATH: View > System information **or** Ctrl+Shift+i

Click open a row to view the source code in an editor:



Window beasgui_sbo.psr

The tabs of the System Information window

The tabs of the Debug Information are located vertically on the left side of the window.

© 2026 Boyum IT Solutions A/S

Vertical tabs on the left	Meaning
Protocol	Protocol of all events
Script	Enter scripts
Item	Press Ctrl and move mouse on the object to see more details
Debug	Debug a script line by line
Variable	Display global and local variables
Events	Enter events
Settings	Settings for Debug-window

Columns	Meaning
Area	Area of the event: window event, SAP-event, SQL statement ...
Command	Executed statement
CPU	Duration in milliseconds between this and the preceding entry
Windowname	Displays the name of the latest opened window

- Protocol

The debug log can log every executed SQL command, Script line, Setting Read/Changes etc.
The line of buttons located on the bottom of the window in the Protocol tab + their meaning:

Buttons

Traditional style	Boyum Style	Description
		Show details for current line
		Start / Stop debug log
		Capture a screenshot of the current window
		Insert comment in debug log
		Delete current row

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style	Description
		Upload and create URL string to clipboard. You can insert This URL string in your ticket or send it as a link in email and other messaging systems. ***See*** Debug log HTML string
		Show as formatted HTML string. ***See*** Debug log HTML string
		Reset Protocol
Level 1/2/3... drop-down	Level 1/2/3... drop-down	Filters which events to be displayed: Level 1 – only events, SQL-Statements and other colored rows Level 2 – additionally, BeasScript without Resizing, Timer and various system scripts. Level 3 – everything
Search field with two blue arrows	Search field with two blue arrows	Enter search term and use the arrows to search in both directions.
		Open Beas Product news and general info.
		Submit your Questions and answers in the Boyum Helpcenter.
		Open Beas feature request and share your ideas in the Boyum Helpcenter.

Script

Create small scripts and execute this directly in the current window

In Tab Settings you can define the font size

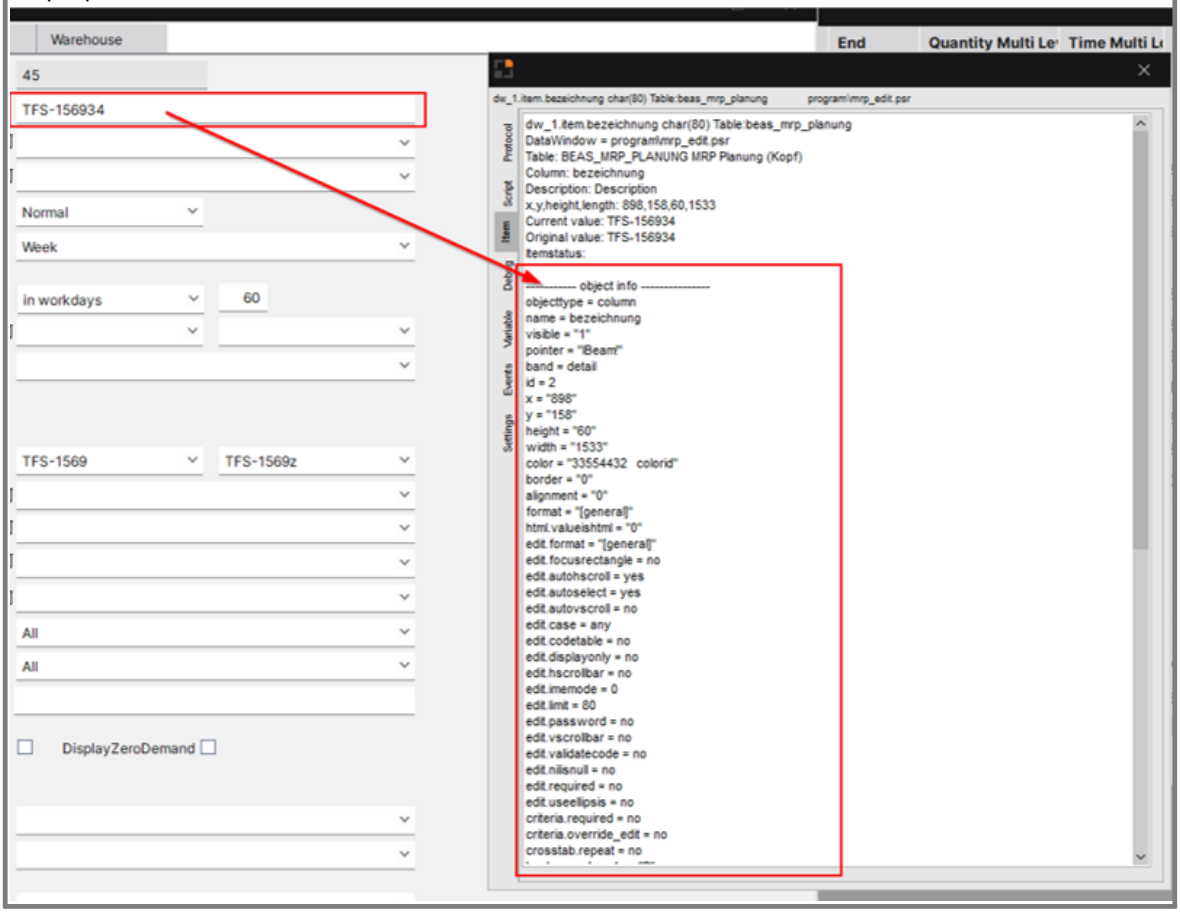
Button below	Meaning
Execute in system window	The currently entered script is executed in displayed window
Exec SQL	Marked section is transferred to SQL window and executed there. The system checks if the user has the right to execute SQL.

© 2026 Boyum IT Solutions A/S

Button below	Meaning
Editor	Open extended editor. The system checks if the user has the right to access the editor.
Blue question mark	Link to BeasScript Documentation.
Arrows	Switch between up to 10 different sources. These sources are saved by station.
Drop-down BeasScript / Macro	Execute the script as "BeasScript" (empty / default = BeasScript) or Macro script.

Item

Press Ctrl and move mouse over the object for more details. All properties of an object are displayed in the screen.



Debug

Debug a script step by step.

© 2026 Boyum IT Solutions A/S

Button	Description
	Activate debugging.
	Move on to the next step.
	Skip next step.
	Move on to the next step.
	Stop debugging.

Variable

Display all variables from current window:

Button below	Meaning
Local	All active variables in the current window
Global	All global variables
Timer on / off	Activate timer to update the list of local variables continuously
Gui-Window	Only in SAP B1 environment: all active windows are displayed

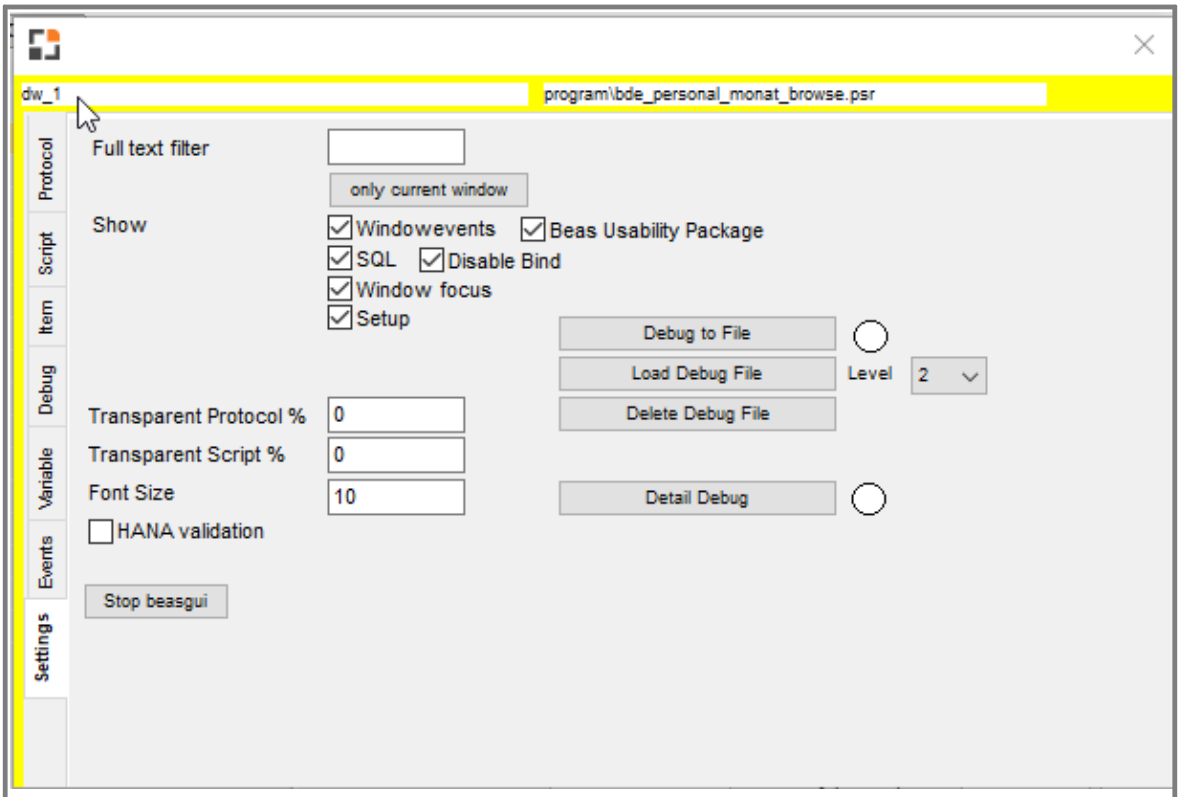
Events

Display all declared functions and events:

Button below	Meaning
Refresh	Update the list
Log other event	Check box option if you need the log of other events

Settings

© 2026 Boyum IT Solutions A/S



Window beasgui_sbo.psr

Define Debug settings and Filter

Buttons / Fields	Meaning
Full text filter	Enter to log only entries containing the entered word.
DB Protocol	Protocol saved in data base Used to view log in case of program crash: 1. Activate DB Protocol and click "View". 2. Open a Beas form and click "View". Information is saved in table BEAS_SYS_DEBUG with the following fields. **Field** / **Description** nr / continuous number windowname / name of current window

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Buttons / Fields</th><th>Meaning</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Info</td><td>debug text</td></tr>
<tr><td>sqlinfo</td><td>current SQL info</td></tr>
<tr><td>modulobject</td><td>function</td></tr>
</table>
To view the log, execute SQL-statement:
<pre>select * from "BEAS_SYS_DEBUG"</pre>
Note: Open transactions are closed after each entry . This can change the program behavior.
</td></tr>
<tr><td>Only current window</td><td>Log only current window</td></tr>
<tr><td>Show Window events, SQL, Window focus, Setup</td><td>Here you can select filters which type of information are to be displayed in the protocol: Window events, SQL, Window focus and Setup information.</td></tr>
<tr><td>DB Reset</td><td>Delete protocol.</td></tr>
<tr><td>View</td><td>View protocol.</td></tr>
<tr><td>Transparent Protocol %</td><td>Window is displayed transparently, if it loses the focus. Enter percentage for active tab "protocol".</td></tr>
<tr><td>Transparent Script %</td><td>Window is displayed transparently, if it loses the focus. Enter percentage for active tab "protocol".</td></tr>
<tr><td>Font Size</td><td>Define the font size for scripting in tab "Script".</td></tr>
<tr><td>Stop beasgui</td><td>If Beas is started in terminal mode, it can be stopped here.</td></tr>
<tr><td>Start Record Macro</td><td>Generate a macro script in background.</td></tr>
<tr><td>Stop Macro (save into clipboard)</td><td>Stop the macro recorder and save the script in debug window.</td></tr>
<tr><td>Debug to File</td><td>Activate the Debug to File function
When active, the right point is red and you can close the debug window.
If this option is activated, the information is saved in a file with the following structure:</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Buttons / Fields	Meaning
	`beasDebug_Database_Date.log` Note: If active, performance is decreased, and the user receives notification of this in the bottom, notification bar. *Beas 2020.05*
Load Debug File	Load from Debug file You can choose a BeasDebug.log file. The default location is the current temp folder. If you want to load the log file of a service, you must choose the protocol directory of this service. This function loads the debug log in the debug window (tab Protocol). You can select the Level (1-3) which you want to load. You can load the debug log more than once. After loading, you can export it to HTML or upload it to Boyum Support. *Beas 2020.05*
Delete Debug File	Delete the debug file selected in "Load Debug File" *2020.05*

Using the Debug window outside SAP B1

It is possible to use the debug window when Beas entries are collected within a separate menu point in the Modules tab of the SAP B1 Main menu.

In this way you can get an HTML view of the debug log with images and get a clear understanding of the process.

To access debug information of a window, proceed as follows:

1. Click on the Print Screen button / in the Protocol tab.
2. Mark a line and Shift + double-click on certain information you wish to edit.
3. A red rectangle appears (***see*** image below) which can be moved and re-sized with the

© 2026 Boyum IT Solutions A/S

mouse.

4. Click the "Clapperboard" / "Eye" button to access the HTML view.

Window fert_fthaupt_browse.psr

Example:

1. Open work orders and follow the procedure above.
2. Double-click on a work order, change some of the information in the WO window, then click on the Print Screen button.
3. Repeat changing information in the WO data and click Print Screen after each change.
4. Click on / to see the formatted HTML string of the process.

In this way you get a clearly understandable picture or description of an entire process in an HTML view.

© 2026 Boyum IT Solutions A/S

Debug Log

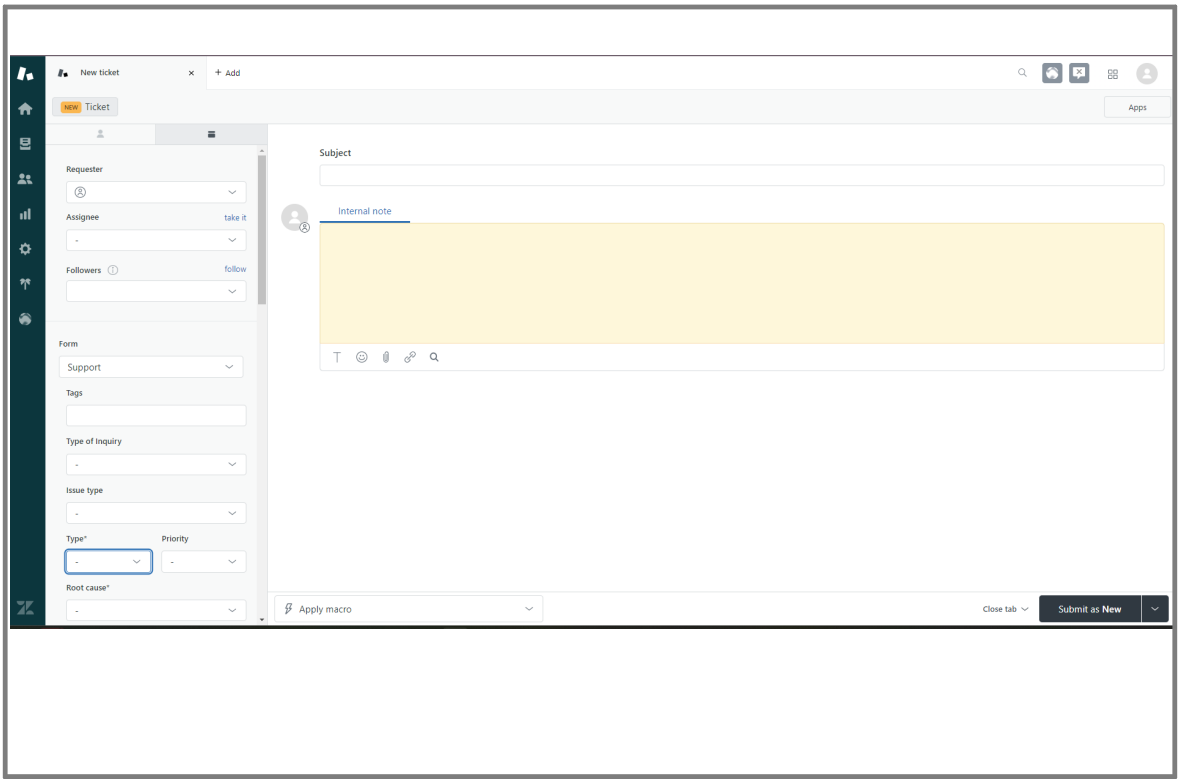
beas version: 9.3-001-018-000

1	window	fert_ftpos_edit.psr
2	tracing	click ⇨ fert_ftpos_edit.vri_pp
3	event	dw_1_item_vri_pp_click
4	tracing	click column: **Qty. to produce** (dw_1.menge_verbrauch)
5	event	dw_1_item_menge_verbrauch_click
6	info	validation fert_ftpos_edit.dw_1.menge_verbrauch GotFocus
7	tracing	click column: **Qty. to produce** (dw_1.menge_verbrauch)
8	event	dw_1_item_menge_verbrauch_click
9	info	validation fert_ftpos_edit.dw_1.menge_verbrauch D-Click
10	event	dw_1_doubleclick
11	event	dw_1_item_menge_verbrauch_doubleclick
12	tracing	double click dw_1.menge_verbrauch, row 1
13	tracing	itemchanged dw_1.menge_verbrauch (**Qty. to produce**) = 101
14	event	dw_1_itemchanged
15	event	dw_1_item_menge_verbrauch_itemchanged
16	SQL	select "ZU" **FROM** "BEAS_SPRACHENTEXTE" **WHERE** "SPR_ID" =? and lower ("NR") =lower (?)
17	info	(fert20303)WARNING! Changing quantities does not affect subassemblies. Do you want to continue?
18	window	beasgui_sbo.psr
19	windowevent	preopened
20	window	fert_ftpos_edit.psr
21	tracing	question: **WARNING! Changing quantities does not affect subassemblies. Do you want to continue?** answer: 1
22	SQL	select u_verschn , u_aussch **FROM** oitm **WHERE** itemcode =?
23	setup	Activate Capacity Planning (modul_kapa) = J Function for throughput scheduling and resource planning. see documentation
24	info	validation fert_ftpos_edit.dw_1.menge_verbrauch Validate
25	tracing	click ! (dw_1.b_1)
26	event	dw_1_item_button_ok_click
27	tracing	!
28	event	dw_master_item_button_ok_click
29	info	validation fert_ftpos_edit.dw_1. DataUpdate
30	event	dw_1_update
31	event	form_update
32	SQL	select count(*) **FROM** "OITW" **WHERE** "OITW"."ItemCode"=N'*CI6900*' and "OITW"."WhsCode" =N'*01*' and "OITW"."Locked"='N' 31 ms, Result: wert1=1.0000 (Long).
33	setup	Cost per (arbplatz_kstje) = (1) Minute Defines the time unit for which the costs are stored. see documentation

The different colors help support agents to quickly analyze every click and setting performed in a chronological order in the log.

In case you need support, you can simply copy the URL address of the Debug log to the clipboard and paste it in the Boyum help page to submit a request.
First, paste the URL string of the Debug log and describe the issue in a simple way. Then, fill all mandatory fields and send your request to support.

© 2026 Boyum IT Solutions A/S



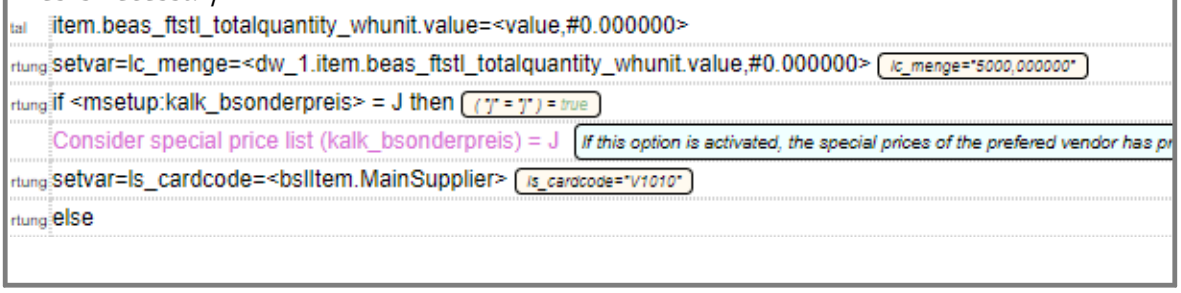
13.1.1 Debug to HTML

In the System information - debug window you can export the log to HTML

The HTML Debug log provides proper overview on all commands, settings, variable definitions and SQL commands.

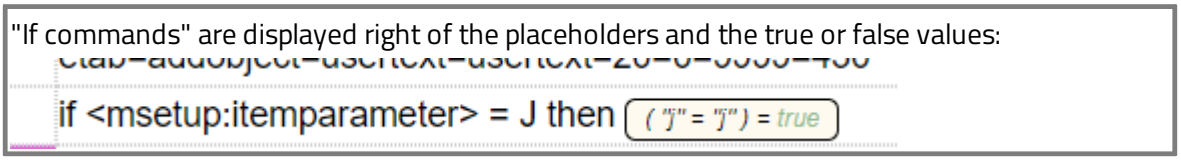
- setvar commands

The setting is displayed right of the command itself and no further analysis of the following lines is necessary.



- if commands

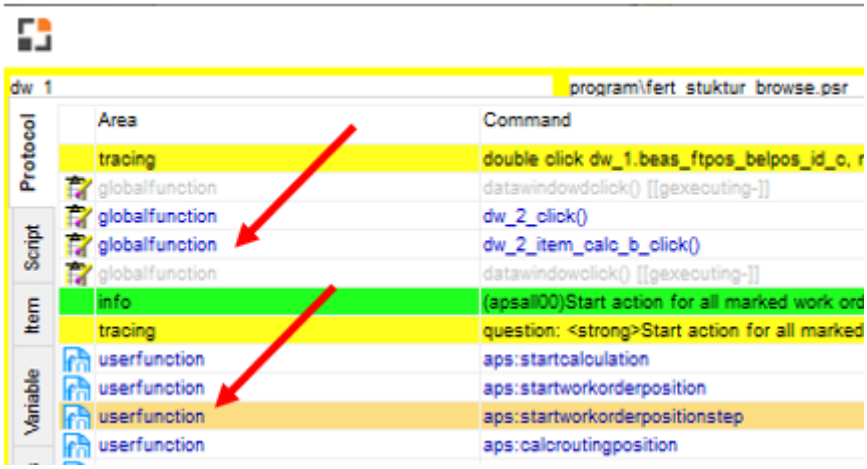
"If commands" are displayed right of the placeholders and the true or false values:



- use functions

© 2026 Boyum IT Solutions A/S

In the debug window you can double-click on a user function or global function:



The double-click opens the customizing Script editor, where you can insert a function (if it does not exist) and set cursors inside this function.

The debug log displays detailed information on User functions along with the source code.
Example: APS information:

© 2026 Boyum IT Solutions A/S

45 94 tracing question: **Start action for all marked work orders?** answer: 1

46 15 userfunction aps:startcalculation Variable +

47 110 userfunction aps:startworkorderposition Variable +

48 16 userfunction aps:startworkorderpositionstep Variable +

49 187 userfunction aps:calcroutingposition Variable −

Supported Variables

Variable	Writeable	Description	Value
e_DocEntry			1411
e_LineNunmber			20
e_LineNumber2			20
e_Direction			1
e_CalcSaveType			
e_TimeLine	*		2021/02/15 06:00
e_Duration	*		0
e_ResourceId			R-EX
e_Start	*		2021/02/15 06:00
e_TransitStart	*		2021/02/15 06:00
e_TransitEnd	*		2021/02/15 06:00
e_ResourceStart	*		2021/02/15 06:00
e_ResourceEnd	*		2021/02/15 06:00
e_IdleStart	*		2021/02/15 06:00
e_IdleEnd	*		2021/02/15 06:00
e_End	*		2021/02/15 06:00
form.name		Name of window	fert_aps_browse

Source

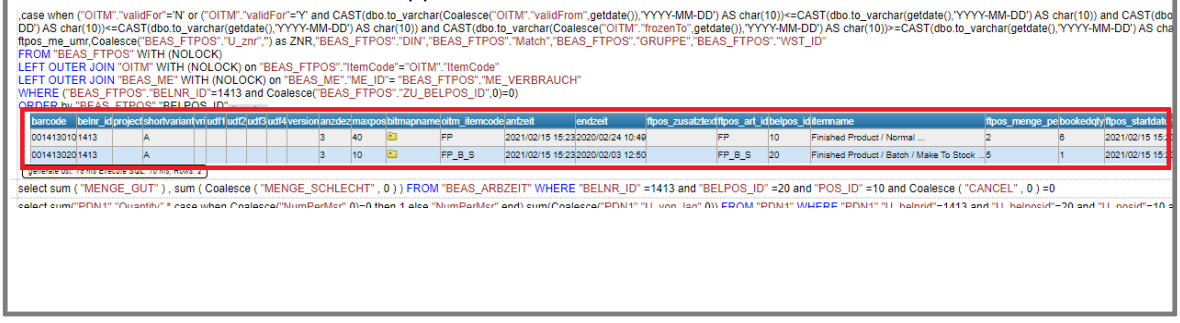
```
setvar=e_ResourceStart=2021/02/15 15:23
```

50 125 userfunction aps:calcroutingposition Variable +

51 32 userfunction aps:endworkorderpositionstep Variable +

SQL commands

SQL commands are clearly highlighted, and real values are displayed. You can expand SQL commands, which then also appear in a table view, as well:



Different SQL Variants exist:

simple selection command via Script: All values are displayed.

multi-row selection command via Script: The first 10 lines with all columns are displayed as an HTML Table.

SQL Commands executed by the application itself: Only the SQL Statement is displayed, not the result.

© 2026 Boyum IT Solutions A/S

14 SBO Menu Tools

Beas functions under TOOLS are marked with the Beas icon. These functions generally do not need to be modified, as they are not related to basic and master data.

Form settings
WEB Server
Protocol, Notes, Warnings
Preview window
Customization tools
Queries: SQL Editor, SQL HANA Converter, Active User
System Programming
Extensions for clients

14.1 Form settings

SAP Business One advanced window settings are defined here. Accessible in Beas **> right-click > Window settings**

Main menu – Form Settings

Subject only for theSAP Business One – environment

This determines which functions in the main menu the user has access to. Here, the menu items are not only hidden, but completely eliminated. This is only for SAP Business One windows, as Beas windows are called up differently.

Notes on authorization control

The SAP-user requires a lot of SAP Business One rights to be able to use the Beas Add-on. Therefore the user should get all permissions. Using the form settings you can take them away again. ***See*** Required SAP-Rights.

Notes: **Beas functions**

The "hide" of functions is controlled by Menu-ID. Unfortunately, the AddOn must assign a separate Menu-Id per language as the menu text and the ID are firmly connected to each other. (Restrictions from SAP Business One) Therefore, the settings apply only for the selected language.

Furthermore, the setting only applies to the menu, but not on the call option by clicking on the orange arrows, as it is available, for example, in SAP windows. These settings are not relevant when Beas is started outside the SAP Business One environment.

© 2026 Boyum IT Solutions A/S

14.2 WEB Server

This window is an efficient solution of the WEB function provided by Beas.
System authorization and administration authorization are required to open this window.

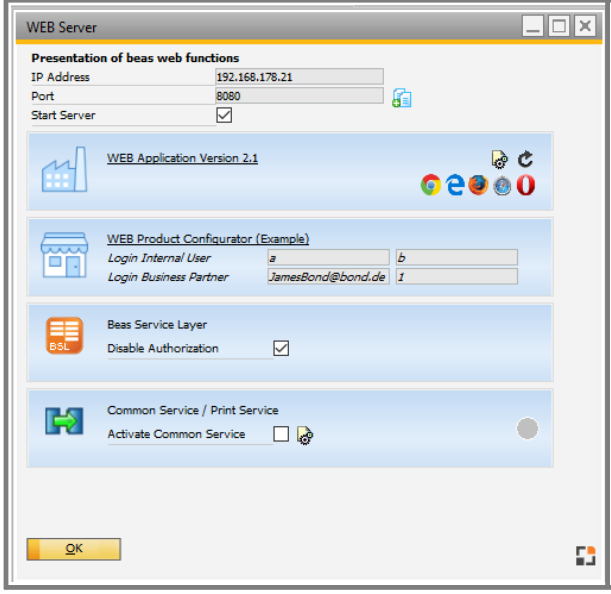
The WEB-Server is immediately available after the window is opened.
The window consists of a HTTP-Server and an application-server.
No additional components or services are required.

For more information ***see*** detailed description of the Web Application server and the Beas Keep Alive system.

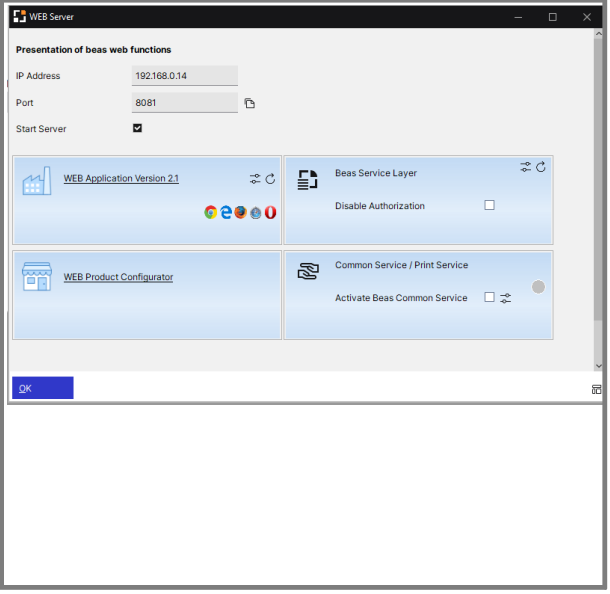
The IP-address and the Port are displayed, which you can use to establish the connection with any browser.
Beas suggests Port 8080. Enter another Port (e.g. 50020) if it is occupied and enable the service with the check box behind it.
The system does an automatic search for the next free port. This can only be changed manually if the check box at "Start Server" is disabled.

PATH: Tools > Web Server.

Traditional Style



Boyum Style



© 2026 Boyum IT Solutions A/S

Window httpserver_status.psr

Multiple links are available for the program by default.

- WEB Application Version 2.1

  For presentation or testing WEB Application 2.1
  For login you must define a Employee in Human Resources. Log in via the card number defined in Personnel administration.

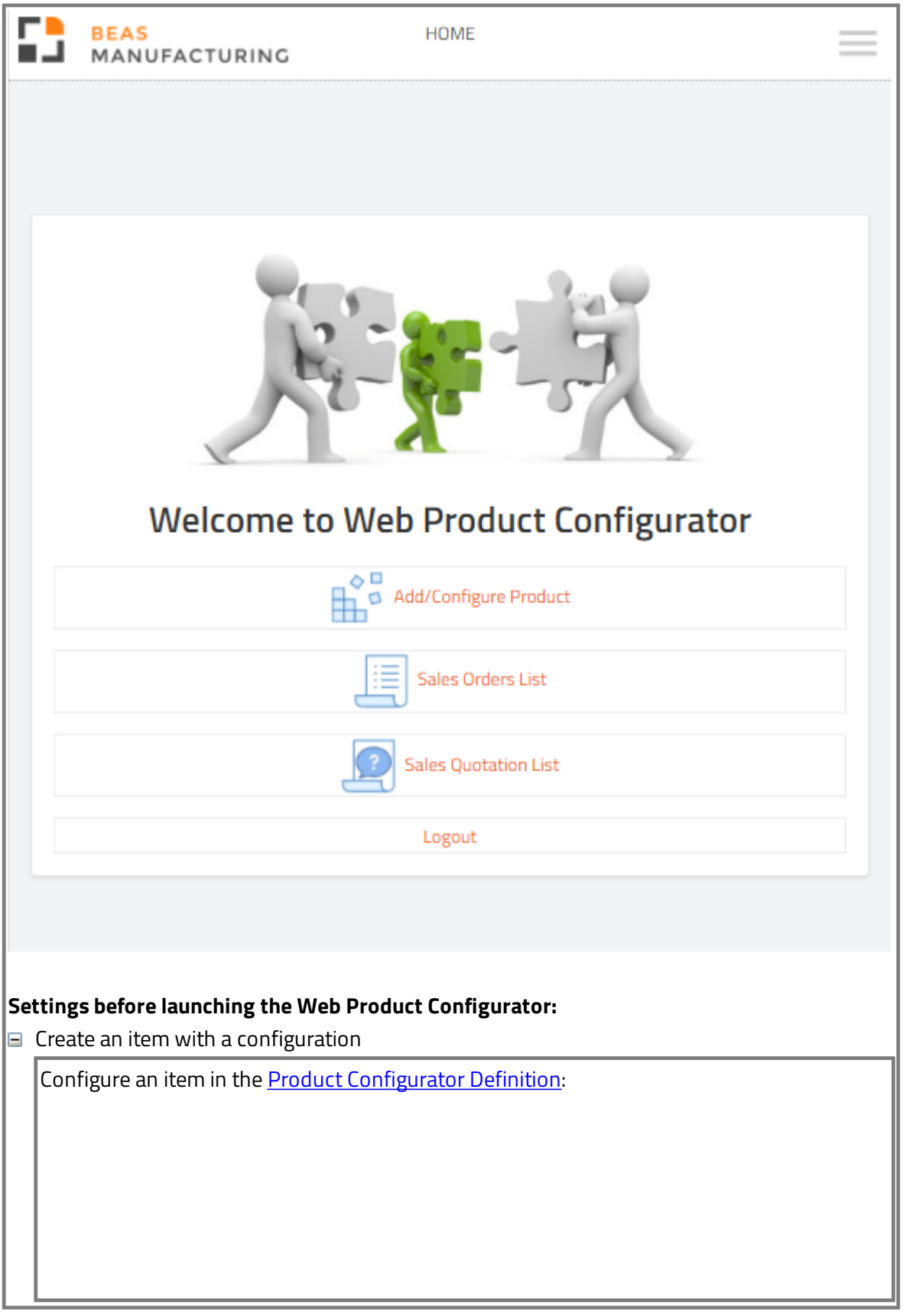
  For more information ***see*** WebApps - General information

- WEB Product Configurator

  If an item has a configuration stored in the system, it can be further configured in the Web solution.
  It is possible to create and cancel Sales documents, login as a customer or a sales employee, and depending on the various settings, the user can view and manage Sales orders/quotations lists.
  See the different basic settings in the Web Product Configurator Setup.

  LICENSE CONSIDERATIONS:
  Concurrence of users (User, Customer, Employee). Every Session takes one license.
  WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

© 2026 Boyum IT Solutions A/S

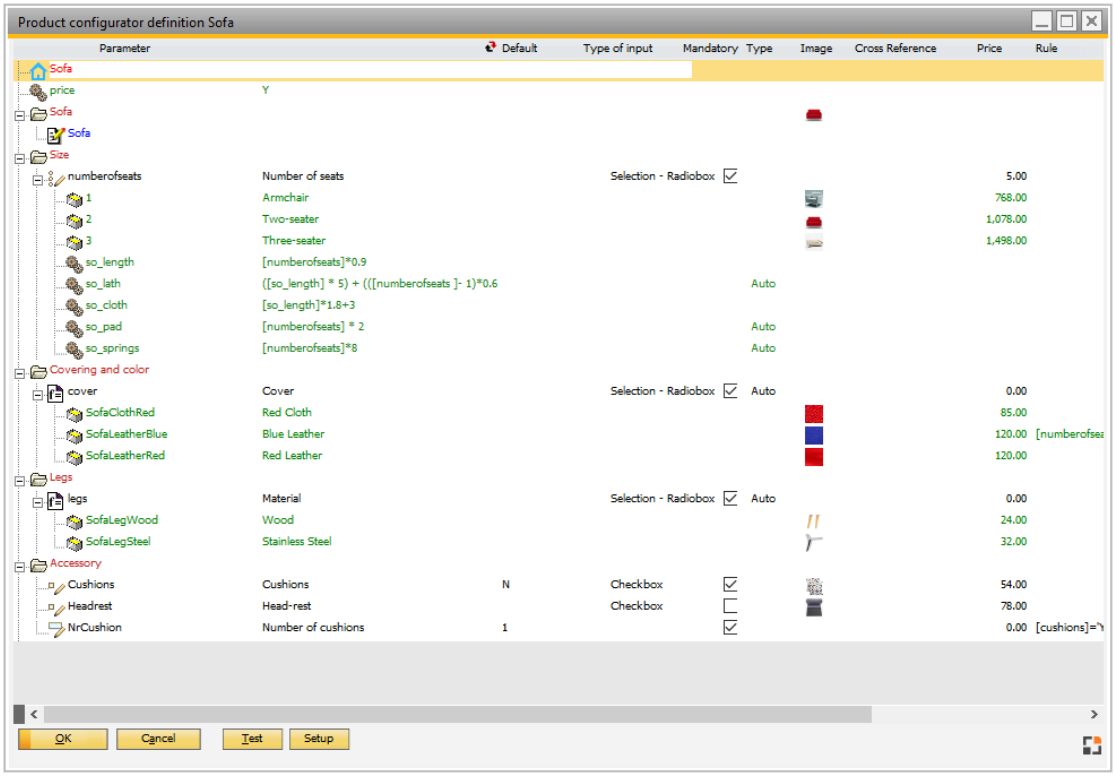


Settings before launching the Web Product Configurator:

- Create an item with a configuration

  Configure an item in the Product Configurator Definition:

© 2026 Boyum IT Solutions A/S



See Configuration

- Create a Beas service

  Create a Beas service in the Beas Manage Server, and enable the Web Application Server.

  Enter port number and activate "Start Server" in the WEB Server window.

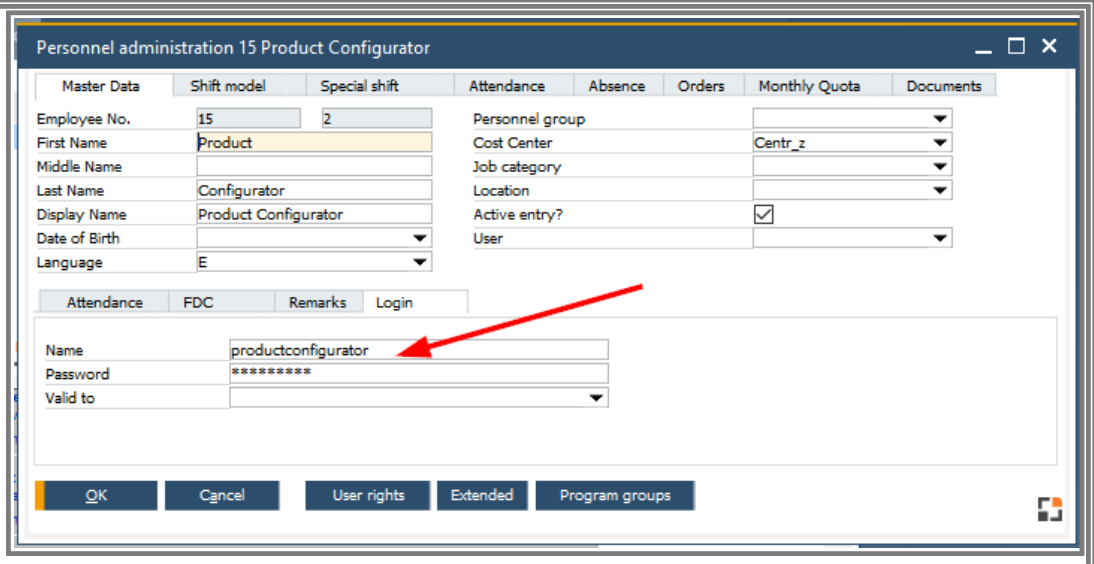
- Login

  - Login as Sales employee

    Go to user and password set up in **HR > Personnel > Login tab**.

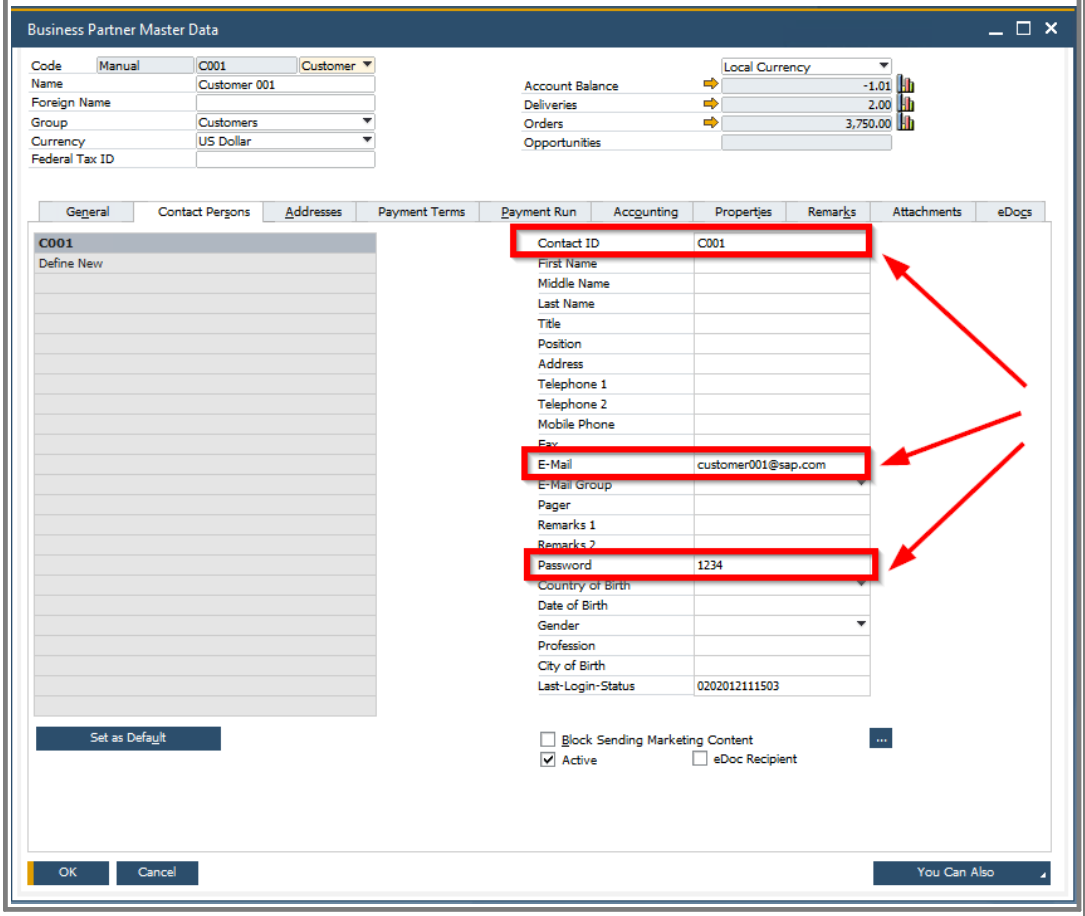
    The function searches for the first user with login information inside.

© 2026 Boyum IT Solutions A/S



Login as Customer

A customer must be stored for the login. A contact person, an email address and a password are stored in this customer entry in **SAP Business One > Business Partners > Business Partner Master Data > Contact Persons tab:**



© 2026 Boyum IT Solutions A/S

Login protection:
If the user tries to login 3 times with a wrong password, the system locks the user for 2 hours.
This prevents a bot attempting a brute force attack based on a dictionary.

See Logon and Edit Personnel Master data.

See functions and field descriptions in Web Product Configurator User interface.

- Beas Service Layer

The Beas Service Layer is available.
For more information on this new service ***see*** Beas script documentation – Beas service layer
Use Postman or other Service test tools to experiment its usage.
Option "Disable Authorization" allows you to use the Service without password protection.

- Common Service

Activate Common if you need WEB APP Print Solution or if you want to create all documents asynchronously.
See Common Service

Note:
Usually a Beas service is set up in the productive system.
For additional notes ***see*** Server management.

14.3 Protocol, Notes, Warnings

All actions are logged and can be viewed here in the protocol. The window is split in two parts.
Detailed information on the current entry is displayed below.
There, all error messages are displayed, including the current user, employee, station name etc. The window saves the original document which caused the error.
The error needs to be checked and confirmed. Click on "OK" in the lower area to do so.

Archive:

© 2026 Boyum IT Solutions A/S

It only logs significant errors which could lead to problems in financial accounting or in inventory. To prevent the protocol from growing too large, it is cleaned up daily. All "red" messages are deleted after one year, all other messages after 3 months.
An entry can be marked as "edited"; you can enter personal information. Multiple selection is possible.

Field	Meaning
Priority	0=process message 1=note 2=error, program cancellation
OK	An entry can be marked as "edited"; this is done in the lower area.
Area	Program part that the entry refers to.
Information	The protocol. In the list the first line of the message is displayed. In the lower part of the window the complete message is displayed. Click on this field to scroll down. The text is not changeable. Next to the message the following information is logged into the current window: a) window title b) form name (PSR-file name) c) content of transfer parameter (structure variable)
Remark	Below a remark can be entered for the protocol entry. The fields "by" and "at" are set automatically.
Date	Date and time of the creation of the protocol.
User	Current user at the moment the protocol was created.
Empl. name	Currently logged on employee user at the moment the protocol was created.
Work station	Work station logged on, if WEB-operation: Name of the client if station name was queried.
Remote station	Station name, on which the program runs, Remote access: name of the terminal server.
SAP code	Message code in SAP Business One.
Beas code	Message code in Beas.

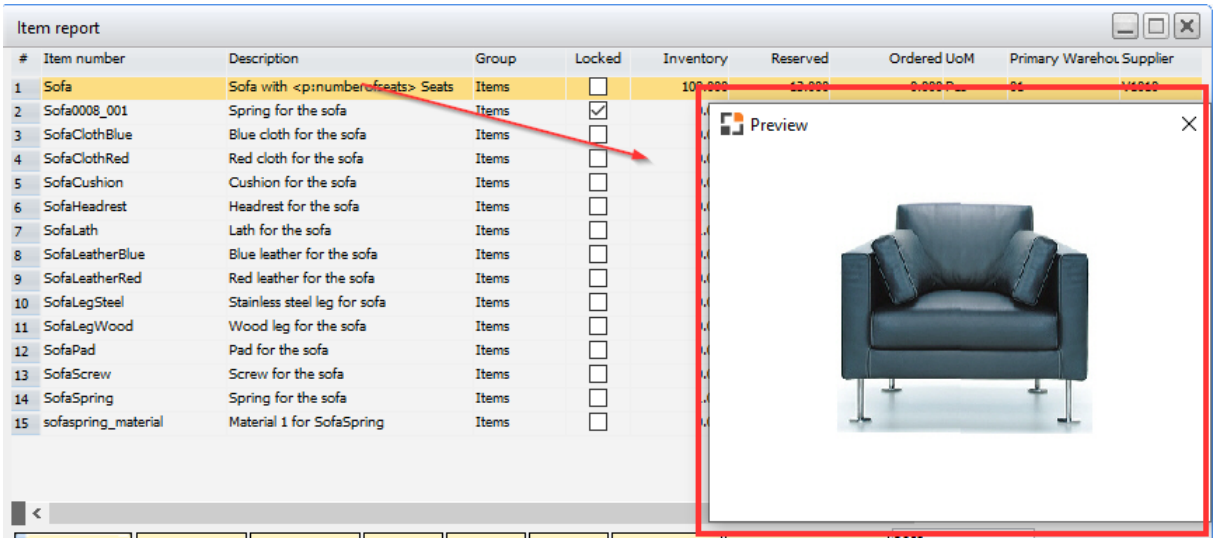
The link to the original document (currently work order document or Precalculation) is checked when deleting. If an entry is deleted, and there is no second entry for the same document, the error mark in the original document is removed.

© 2026 Boyum IT Solutions A/S

14.4 Preview window

In preview window the first document of the currently selected item is displayed.

Selecting this menu item, a separate window opens presenting the first document of the currently selected item. This works for almost all windows (item list, item structure, work order structure, work order item, etc.)



All JPEG, BMP, GIF, TIFF and PNG - image files are displayed. Other formats are displayed with OLE. If an OLE-capable program has been installed, the document is opened (eg. Word, Excel, Powerpoint) If not, only the icon is displayed.

The window can be opened both synchronously and asynchronously. Images are opened directly, other files using the OLE-icon. Double-click on the icon to execute the linked program.

Set up behavior in Station settings.

Working with 2 terminals

You can move the preview window to a second monitor. Beas saves last position and size.

In this manner you can work with terminal / SAP in the left window and on the second monitor you can see the technical picture.

© 2026 Boyum IT Solutions A/S

Terminal Mode:

In Terminal – mode the preview can be opened automatically. To do so: Station settings – Preview set to "automatically synchronous" or "automatically asynchronous".

beas9.0-004-051-000

14.5 Customization Tools

All Beas customizing functions are accessible from this menu.

The following Beas functions are available:

BeasScript Editor

Macro Editor

Beas Customizing Properties

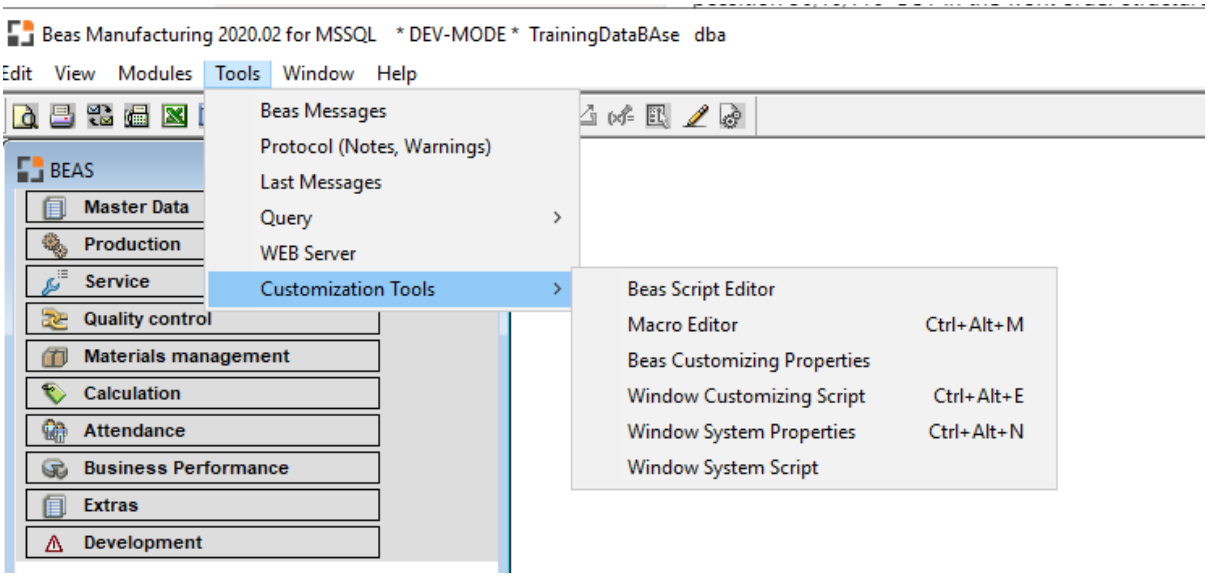
Window Customizing Script

Window System Properties

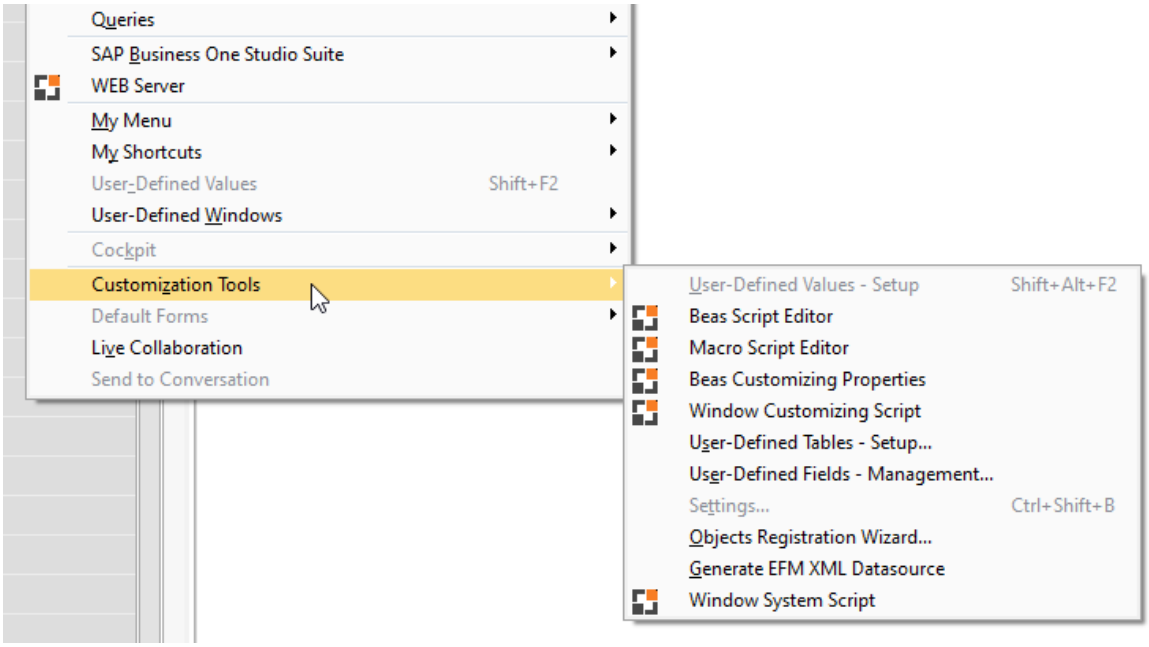
Window System Script

View in Beas standalone:

© 2026 Boyum IT Solutions A/S



View in SAP B1:



14.5.1 Beas Script Editor

You can use this editor to modify test scripts. It is identical to the the editor in the debug window, but with more functionality. There are additional properties.
It is possible to change between 20 different sources with the blue arrows.

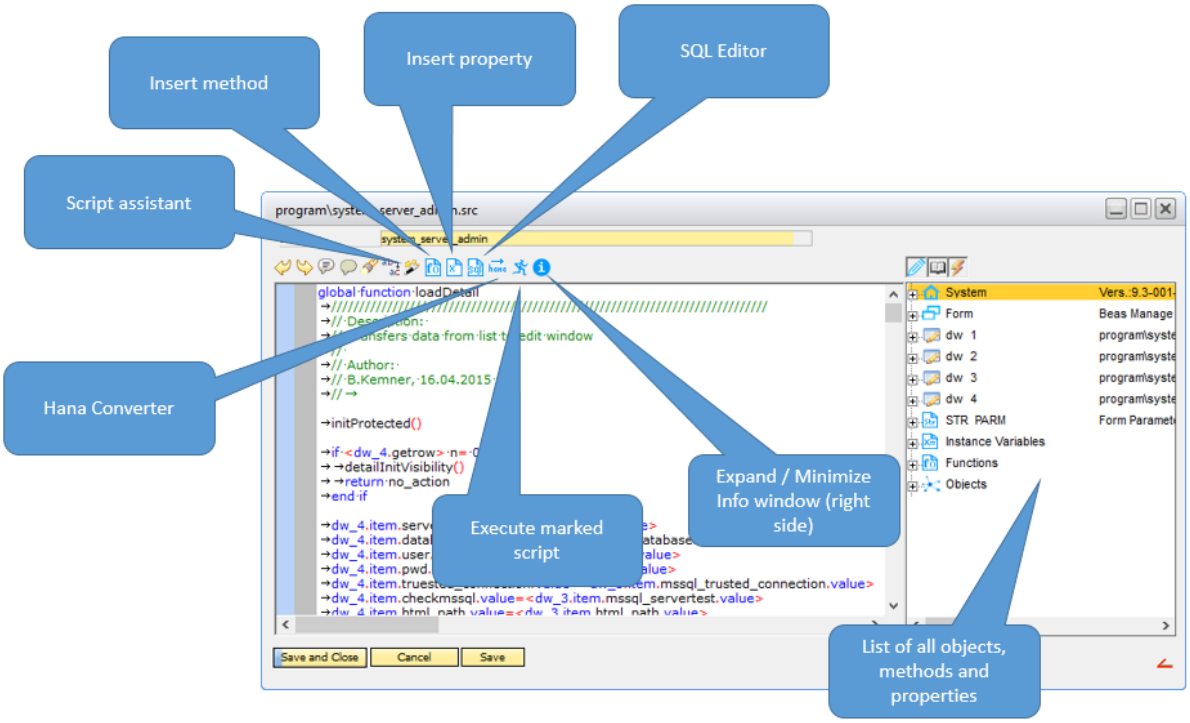
Beas can be customized easily and in different ways.
Beas has its own script language called BeasScript.

© 2026 Boyum IT Solutions A/S

With the integrated script editor it is simple to create customization with BeasScripts.

User rights:
Validate if the user has rights to open the SQL screen. ***See*** Right management SQL.

Examples for using Beas script editor:
- window-related – tools – extensions for clients
- Beas usability extensions – universal function – Beas script



The script assistant helps you to start with BeasScript. ***See*** BeasScript assistant.

Videos:
Display content of a datastore

See also Beas Service Layer.

14.5.2 Macro Recorder

This function allow to record the current session.
The macro recorder create directly a JBScript. With this script you can generate your own customizations.

© 2026 Boyum IT Solutions A/S

Current this window is in Work (BETA Version)

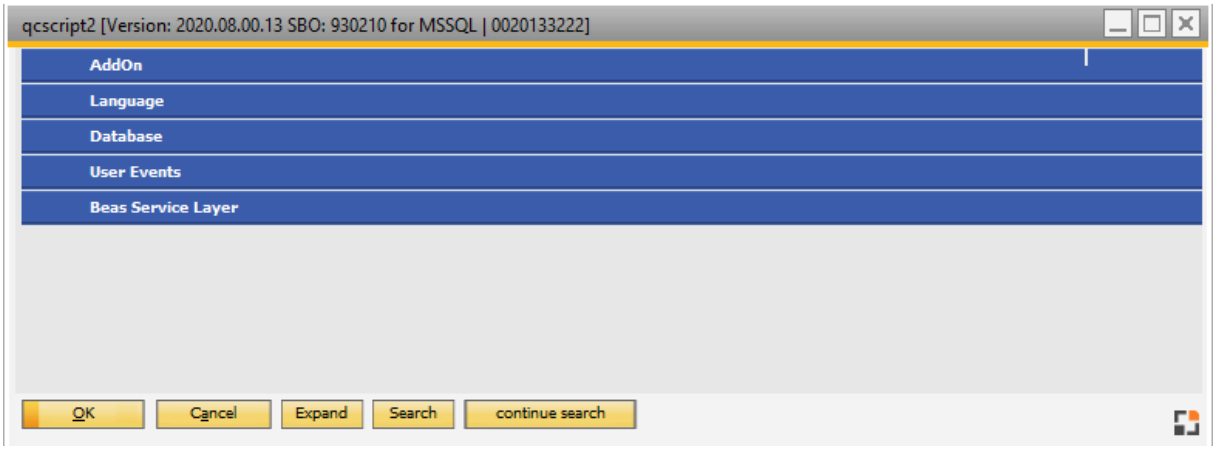
14.5.3 Beas Customization Properties

Open Add-On Extensions for the currently defined folder.

This menu option can also be called up from:

PATH: Administration > Add-Ons > Add-on-Manager (Beas) >

1. Select Addon >
2. Click **Open** button.



Window system_option_struktur.psr

Button	Description
Customized extension	Enter name and location of the Add-Ons.
Folder	Open the central project folder Only visible if working with a central project folder: Open the windows explorer in this folder.
Block client update on this station	Prevent an automatic update on the project folder Only visible if you do **NOT** work with a central project folder: Prevent adjustment of the local project folder. ***Use example:*** The extensions are developed at this station. This option can be activated for preventing an "overwriting" accidentally through an

© 2026 Boyum IT Solutions A/S

	adjustment.
Request a client update	Request update of the project folder for all clients Only visible if **NOT** working with a central project folder: As soon as the clients restart Beas, the project folder is updated. The entry "version" is increased in the project folder on the server in the file "version.ini".
Distribute local changes	Distribute the local project folder to all clients Only visible if you do **NOT** work with a central project folder: All changes in the local folder are copied to the server > project folder and a distribution is requested to all clients. As soon as the clients restart Beas, the project folder is updated. The entry "version" is increased on the server in the project folder in the file "version.ini". Note: All files are copied but not deleted.
Local document	Open the local project folder Only visible if you do **NOT** work with a central project folder: Open the file explorer on the local client.
Server document	Open the project folder on the server Only visible if you do **NOT** work with a central project folder: Open the file explorer on the local client.
Language	Language settings

Language table	The translation in the project folder is saved in the file "lanuage.psr" and updated when: a) The addon is registered, b) The language is updated, c) Something is changed in this window.
Messages	Own messages for own extensions can be stored

© 2026 Boyum IT Solutions A/S

	Language table: The translation in the project folder is saved in the file "lanuage.psr" and updated when: a) The addon is registered, b) The language is updated, c) Something is changed in this window. here for all user languages. The translation in the project folder is saved in the file "message.psr" and is updated if: a) The addon is registered, b) The language is updated, c) Something is changed in this window.
Database	Database settings Define own Database Fields Edit table extensions: Edit database extensions. These are saved in db.ini. ***See*** "structure of the DB.INI" Edit rights: Edit further authorizations which are displayed in the user rights administration.
User events	Customer-specific functions Beas allow to insert additional functionality in the business logic. This is not window related and the scripts running complete in back end - in Beas Desktop / Terminal / WEB solution, Beas Service Layer and Data Integration hub. The following areas are available: Addon: Edit details with BeasScript editor. Menu: Edit details with BeasScript editor. MRP: Edit details with BeasScript editor. QC: Edit details with BeasScript editor. Calculation: Edit details with BeasScript editor.

© 2026 Boyum IT Solutions A/S

	<table><tr><td>Stock management</td><td>Edit details with BeasScript editor.</td></tr><tr><td>Work orders</td><td>Edit details with BeasScript editor.</td></tr><tr><td>APS</td><td>The **Details** button opens the script editor with the file APS.SRC and creates the function or jumps to the existing function.</td></tr></table> For more Information ***see*** BeasScript documentation – User events
Beas Service Layer	By clicking on the button "**Details**", you can insert the additional functionality for Beas Service Layer. For more information ***see*** Beas Service Layer documentation.

back to Customized Extensions

14.5.4 Window Customization Script

Here you can define the customization for the current window.

14.5.5 Window System Properties

Open the Window system property window.
Do not change anything, because these are system scripts .

Use this only if you created your own window with PowerBuilder, and it is saved in the project folder.

14.5.6 Window System Script

Open the System scripts window.
Do not change anything, because these are system scripts.
The program will overwrite all changes in the next program update.

For changing standard / system function, use Window Customization Script.
This scripts allow you to understand how the standard is working.

© 2026 Boyum IT Solutions A/S

14.5.7 User-Defined Fields

Beas for SAP Business One was created in 2001. At this time UDT's did not exist in SAP Business One.
We always strive to deliver a Beas version that is compatible with older versions because our partners invest a lot of time in Reports and Customization.
This is the reason why Beas does not use UDT's and why this cannot be changed.

On Beas tables it is not possible to create UDF's, because Beas does not use the SAP Business One UDT-System.
For more information ***see*** beas Addon settings

If you need your own fields on SAP Business One – Tables or if you want to create new tables: Use the SAP Business One UDT/UDF System.

You can create User-defined fields in 2 ways:

1. Use SAP Standard tools to create the UDF manually.
Upon creating the UDF, you can define all properties and must proceed similarly in every database.

2. Use db.ini in project folder to create SAP UDF's. ***See*** Beas Addon settings.
Beas creates the UDF's automatically. Here it is not possible to define all UDF Properties.

Attention:
If you create your own tables or udf: The prefix "Beas" is not allowed.

Example:
`u_beas_color` -> wrong
`u_mycompany_color` -> correct

14.6 Queries

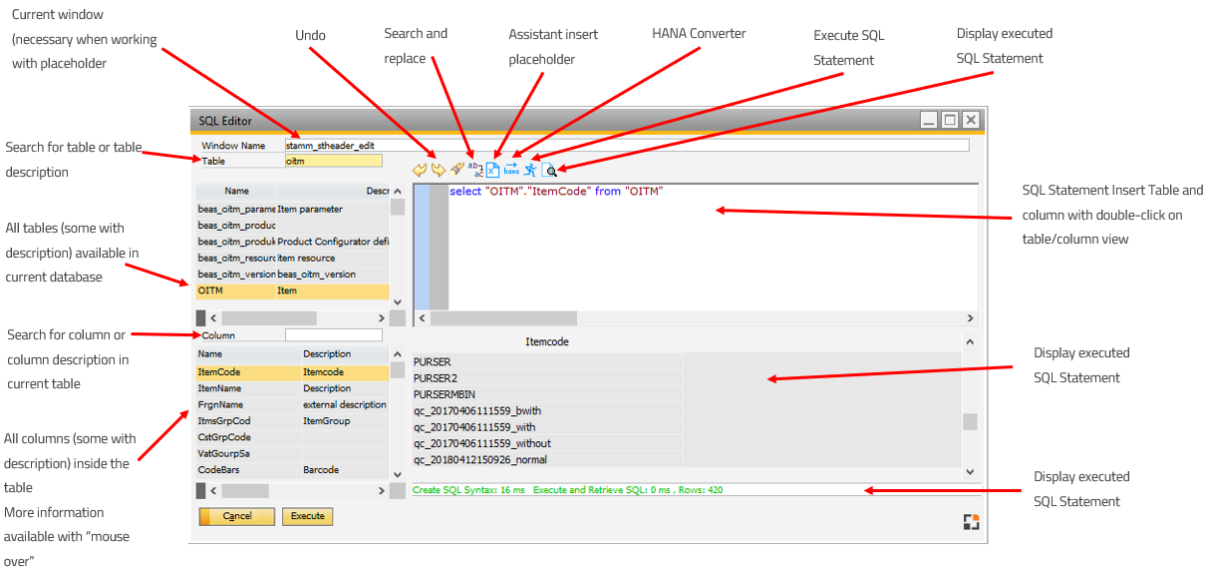
14.6.1 SQL Editor

With the SQL Editor it is easy to generate SQL statements.
The SQL Editor displays all SAP-Tables, all Beas Tables and Beas Views

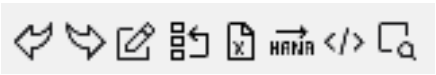
© 2026 Boyum IT Solutions A/S

When hovering the mouse over a Beas table column, Beas displays more information on the field (if available).

The integrated MSSQL→ HANA Converter makes it simple to convert the script in correct HANA Syntax.



Function buttons in Boyum Style design:



The SQL Editor has different modes.

Create own SQL Statements

Open SQL Editor from Debug window to test executed SQL Statement

Open SQL Editor to define Filter or Order

- Open SQL Editor to define UDF's or Templates

  In this mode Beas creates the correct syntax if you make a double click on a field.
  - convert NULL fields to string: COALESCE("TableName","FieldName",'')
  - convert all types to string: Cast(...)
  - allocate fields if you need more than one field (field1 || field2)

- Execute SQL Query

  Beas converts the string before executing.

© 2026 Boyum IT Solutions A/S

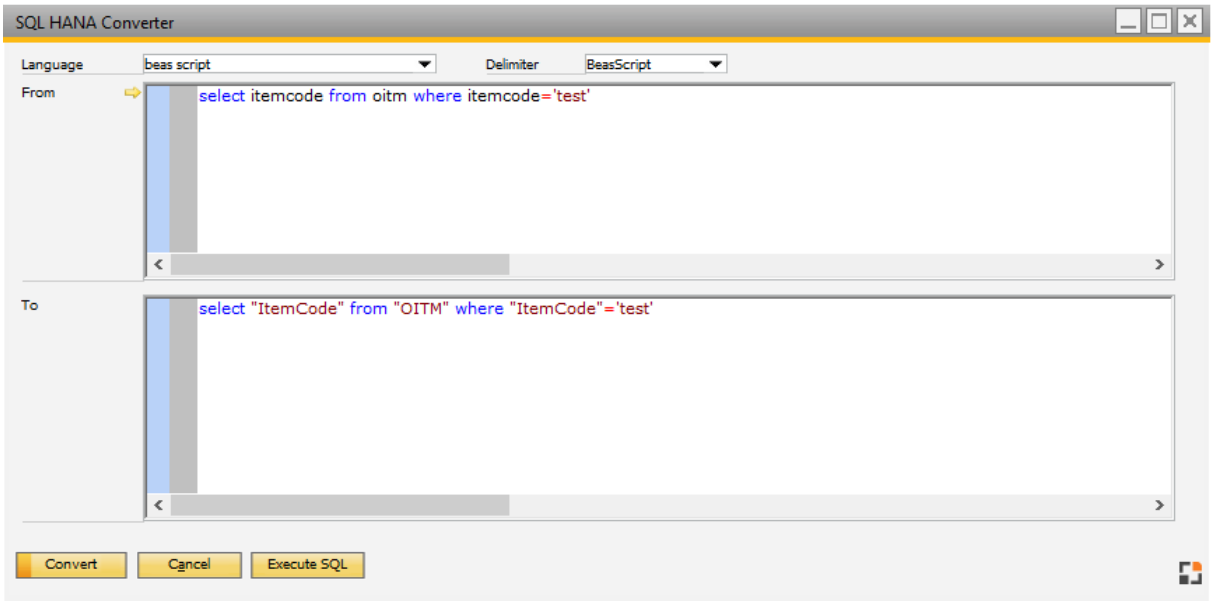
1. Replace all placeholders <...>, linked to window defined in the Window field in the top section
2. Delete & marks on right side
3. MSSQL: Convert HANA Syntax to MSSQL Syntax with internal MSSQL Online Converter
4. Display Result as Grid Table
5. Display count of rows and duration time from executing

Limitation:

SQL Statements executed from Beas can have questions marks in the arguments.
The SQL Editor cannot replace this.

14.6.2 SQL HANA Converter

The SQL HANA Converter converts SQL Syntax to HANA Syntax.



Window system_ convert_ sql.psr

Function	Description
SQL / BeasScript	Define if a Beas script with SQL statements or only a SQL statement must be converted.
Delimiter	**BeasScript**: Use "for field Names", for example select `"OITM"."ItemName"` **powerbuilder**: Use "for field Names", for example select `` `OITM`. `ItemCode` ``

© 2026 Boyum IT Solutions A/S

Function	Description
	the Beas internal Online HANA/MSSQL Converter replaces this at run time Use this if the SQL statement is inside ' ***Example*** in powerbuilder script: `sqlca.sqlcode("select `OITM`. `ItemCode` from `OITM`",lds)`

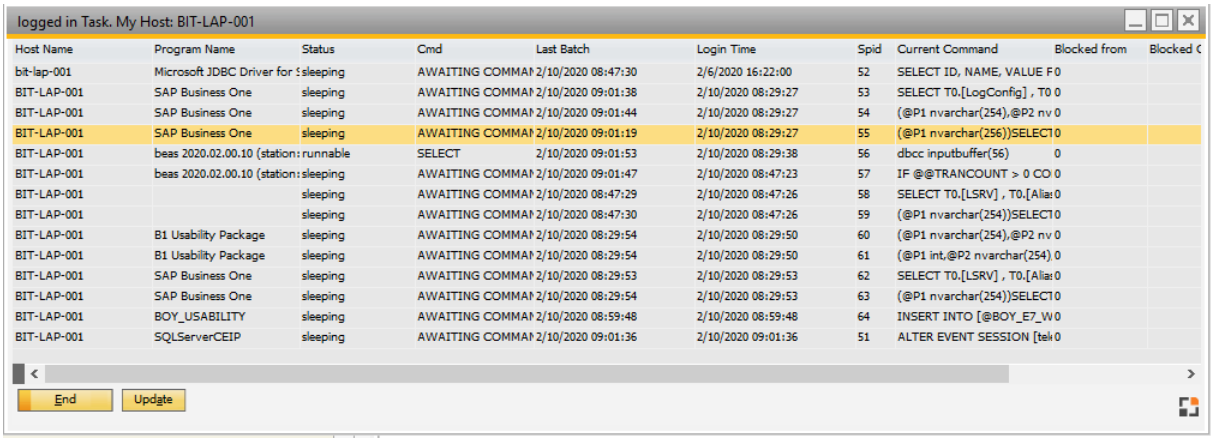
HANA Script	The translated SQL Script
	
	define corrent upper/lower case
	`itemcode -> "ItemCode"`
	this runs with all SAP- and Beas tables, UDF and UDT, not for own define fields outside the SAP System
	
	Insert "
	`itemcode -> "ItemCode"`
	
	replace convert, today and lot of other functions
	`getdate() -> now()`
	
	replace +
	`itemcode + itemname = "ItemCode" || "ItemName"`
	
	Replace MSSQL udf names to HANA udf names
	`select u_din from oitm -> select "U_besa_din" from "OITM"`

14.6.3 Active User

Lists all users including the application name, logged into the SQL server.

For Beas applications, the version number, the logged in user, command information, Login time and the current database are displayed here.

© 2026 Boyum IT Solutions A/S



Window system_ aktive_ user.psr

14.7 My Shortcuts

In my Shortcuts you can allocate Function keys to a Window.

Example: F3 open item master data

> NOTE:
>
> This ONLY works in SAP Environment and ONLY if an SAP Form has the focus.
>
> The function key does not work in Beas Standalone or if a Beas window has the focus.

14.8 System Programming

The system development window opens.

Beas allows to view the development tools, for analyzing features of Beas for customizations.

IMPORTANT: Do not change anything here, as all changes will be overwritten at the next program update.

Customizations are made only here: Customizations

14.9 Extensions for clients

Customized extensions can be added, created with Beas-script.

See

BeasScript Editor

Customized extensions

BeasScript

© 2026 Boyum IT Solutions A/S

14.9.1 beas script

With BeasScript you can modify and extend Beas and SAP Business One in various ways.
No other tools, cancellation or restart of the program is necessary.

BeasScript is a script language that is not compiled (as JavaScript) .
Beas was developed in this script language. The source code is available.

See Documentation: BeasScript

The main advantages of Beas script are the versatility and the direct access to different frameworks and API's:
SAP Business One - Data-Api and User-Interface-Api
Beas - Data-Api and User-Interface-Api
WEB-development
WEB-Service-development (SOAP)
Powerbuilder DataWindow-Object
Crystal-Report-Api

© 2026 Boyum IT Solutions A/S

15 SBO Menu Window

SAP Business One menu window:

Colors
Messages Activities

15.1 Colors

Up to 10 color settings can be made here.
This is necessary for example when using terminal servers that work with only 16 colors.

The currently selected color setup can be stored per station.

Generally, changing the color settings is not recommended.

15.2 Messages Activities

Beas includes a messages window which is easy to operate, similar to the activity management of SAP Business One

Advantages:
- very simple and quick operation
- different work flows can be represented
- easy adaptation with scripts

Used by following functions:
- Data check
- Events

There is an automatic check for new messages. The check interval can be set up in **SAP > System initialization > General settings > News update (minutes)**. Restart needed for changes to take effect.

The automatic notification can be turned on in Configuration wizard – System – Beas message check.

© 2026 Boyum IT Solutions A/S

16 SBO Menu Help

SAP Business One upper row : Menu item Help – Documentation

Beas offers many help resources, slides and videos.

Documentation
Last messages
Message IDs

See
Configuration wizard – Help

16.1 Documentation

For all References to Beas help ***see***

Beas Help Archive

16.2 Last messages

List of last error messages.

Field	Meaning
Clipboard	Copy selected error message to clipboard.

16.3 Message numbers

Warning messages issued by Beas are explained here in detail.

If the user selected "do not show anymore" for a recurring warning message, this selection can be reset in User administration.

© 2026 Boyum IT Solutions A/S

16.3.1 cantrollback

Note: Only BOM issue is aborted. All previous postings cannot be undone.
The following message appears:

"Aborted only the debiting of the BoM. All previous booking process cannot be undone!"

This message occurs in case of multiple transactions (for example, goods receipt, issue, etc.) are carried out in succession and one of these is aborted.

Possible reasons for cancellation:
- Cancel button pressed
- Error message (not enough inventory, blocked number range, no authorization, etc.)

Why the process is irreversible:

Example:
External production (last operation) - Goods receipt with provision parts and automatic posting
In this case, the following actions take place:
Goods receipt in SAP Business One
Material issue from external warehouse
Material issue from own warehouse
Post-calculation
Post in assembly

Each operation must be completed and the transaction will be closed to prevent subsequent manipulations(for ***example***, determining which batches to be selected). If a transaction is completed, it can not be undone because journal entries have been made. Journal entries may not be deleted.

If a transaction would not be closed, the database needs to would be locked (open transaction). A consequence would be the company-wide blockage of the complete program.

Measures
In certain cases, the document (e.g. production document) is marked as faulty. Details are shown in the log. In other cases, a message is generated (e.g. material not completely posted)

© 2026 Boyum IT Solutions A/S

16.3.2 primaryspace234

IMPORTANT: It is not advisable to insert a space into ID fields.

Beas as well as other programs can be accessed via command-line. As argument separators here mostly the space character is used.
If the value of an ID field, for example item number is transmitted which includes a space, then the item number is only transferred to the first blank space.

To keep the compatibility to command-line driven programs, you should not work with spaces in the identifier fields.

16.3.3 specialsigns1

In identifier fields (resource ID, product ID, etc.) The following characters are not allowed:
Tab, comma, quotation marks, apostrophe, underscore, ampersand (&), <>, (ß). For more information, see the documentation. These characters are replaced with replacement characters.

To ensure compatibility with WEB programs, with command-line programs and beas-script, various special characters are not allowed in ID fields:

, '"_ & <> ß and TAB character

because these are used as delimiters, as placeholders or as different identifier characters. Also @ should not be used as some programs use this as a wild card character.

16.3.4 stdpricek423984

Error message (stdpricek423984) Standard costs valuation:
Last item valuation is too old or not existing (Batch-calculation) or there was no calculation schema stored. Work order <belnr_id>, Item <itemcode> can not be created.

In this case the Standard cost method was enabled.
It is checked whether a batch-calculation was executed. The table "BEAS_OITM_CALCPRICE" is checked.

The reason for this error message may be :
- the last calculation was performed with an older version of beas than beas9.0 PL 0
- at batch-calculation you set up: "Save calculation". In this case, no entry is made to the table "BEAS_OITM_CALCPRICE"

© 2026 Boyum IT Solutions A/S

16.3.5 calendar3

Error message calendar3

Error while checking calendar yyyy/mm/dd + x work days: Calendar existing, but no work days found. Checked last y entries.

The other reason can be that more than 30 days without a work day were found in a time period. Please check beas company calendar (ue_kalender.add_arbeitstage(days))

Activities:

Check company calendar.

A time period > 30 days without work days is not allowed.

in Beas 9.3 PL 2 and older:

(<empty>)object ue_kalender.add_arbeitstage(day x) Max=4000 days. Calculate date yyyy/mm/dd to much days. Rest of days: 356

© 2026 Boyum IT Solutions A/S

17 Terminal and WEB APPS

Factory data capture provides an overview on all work orders which is always up to date, a simple reporting of work order times, statuses and quantities.

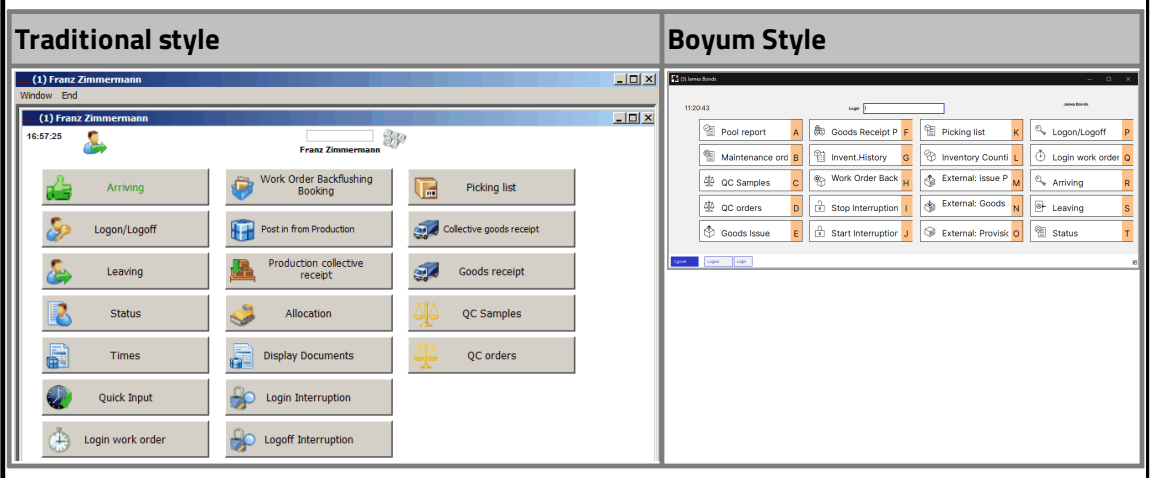
Data can be registered via WEB and PC. Functions are made available in "Apps" summarized in the program group "Terminal".
Apps can be grouped individually, extended and adjusted.

Apps basic settings
Program group Terminal
Terminal
WEB APPS Version 2.1
Web Product Configurator
Beas service layer

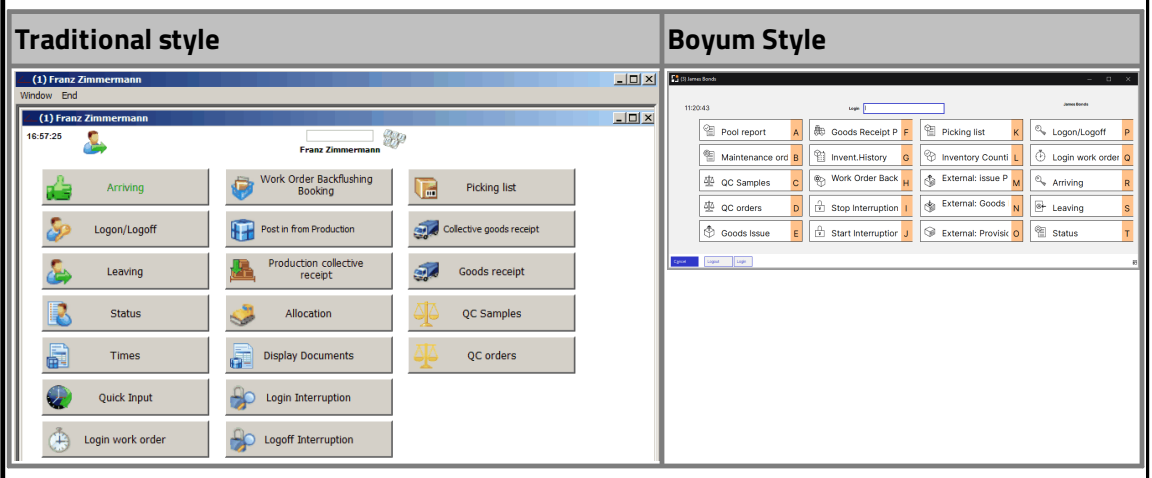
Terminal variants

Beas supports variable Terminal-Variants.

© 2026 Boyum IT Solutions A/S

Client-Server based (Desktop) Terminal	As separate application (Beas in Terminal mode) on PC-terminals (e.g. touch screen terminals)  ***see*** Client-Server-based The Terminal can be started from the SAP Business One-environment as a separate application and also as standalone. ***see*** call-up parameters No user account needed. Logon by using personnel card number. Each employee can be assigned to an authorization group, in which the functions available for him are defined. Authorizations groups are stored personnel master data The solution uses the application "Terminal" and displays apps, which have been released for the respective employee. Apps can be distributed simply via copy&paste. ***See*** Terminal License Concept, License types.
WEB-based	All Terminal features as WEB-applications are available on Touch-Screen-Terminals, Pad's or mobile devices. **Advantages:** - Simple connecting, low network load and high stability. - Very low hardware requirements - Low license costs - No installation required - Globally available The solution uses the application "Terminal" and displays apps which have been released for the respective employee.

© 2026 Boyum IT Solutions A/S

Client-Server based (Desktop) Terminal	As separate application (Beas in Terminal mode) on PC-terminals (e.g. touch screen terminals)  ***see*** Client-Server-based The Terminal can be started from the SAP Business One-environment as a separate application and also as standalone. ***see*** call-up parameters No user account needed. Logon by using personnel card number. Each employee can be assigned to an authorization group, in which the functions available for him are defined. Authorizations groups are stored personnel master data The solution uses the application "Terminal" and displays apps, which have been released for the respective employee. Apps can be distributed simply via copy&paste. ***See*** Terminal License Concept, License types.
	See WEB APPS Version 2.1, Terminal License Concept, License types.
Interfaces	Beas supports many different interfaces and several objects for registering attendance and order times. Available interfaces: - Text-file based (e.g. CSV) - WEB-service - Windows-events - Beas-common (Database Interface) - Beas service layer (ODATA Service) Please contact our support. http://www.beas-support.com/supportsuite/

© 2026 Boyum IT Solutions A/S

See

Terminal

Program group administration

Following additional licenses are required for these apps.

See

License management

17.1 Apps basic settings

There are basic settings for certain applications, for example the terminal.

PATH: Human Resources > Master data > Terminal Functions > select an entry > "**Basic Setting**" button.

The button opens the Terminal and WEB APP section of the Configuration wizard:
In this section you can configure settings for the Desktop Terminal and WebApps 2.1.

PATH: Administration > System Initialization > Configuration wizard.

Authorization Groups: The **Details** button opens the Administration terminal window.

17.2 Program group Terminal

The program group "Terminal" is delivered by default. It contains a number of apps and it is available in Terminal and WEB Application.

Additional licenses are required for these apps.

See

License management

© 2026 Boyum IT Solutions A/S

17.3 Terminal

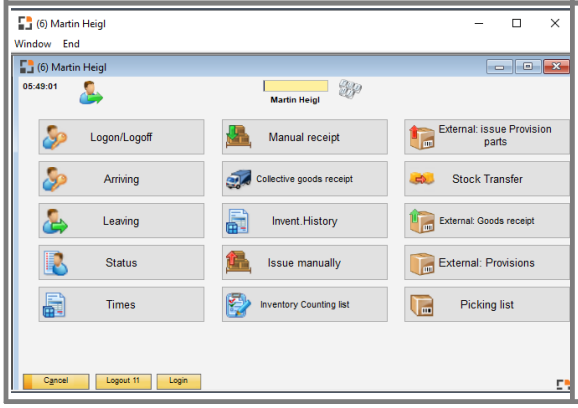
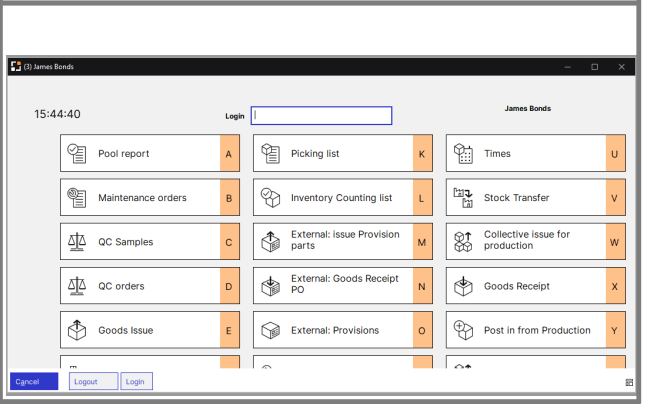
Certain functions which are optimized for the use in a workshop are available from the terminal window.

The terminal window is a platform in which any number of apps can be seen.

Login types:

1. Enter personnel-card number to log in.
2. Connect to the Terminal using the SSO (Single sign On) functionality.

To use this login type, send the following parameter in the command line: **sso=true**

Traditional style	Boyum Style
	

The terminal can be started via the terminal mode. This requires a windows link called "Beas Terminal".

- Installation

The installation of SAP Business One DI-API 32 Bit and Beas Standard is necessary.

A windows - link will be inserted on the station. The current "Beas" – link can be copied and can be renamed to "beas terminal" for this.
At "Target" will be inserted after "....\beas.exe" other parameters.

Terminal: ID for "Start in terminal mode"
User: The user ID (not user name!), e.g. Terminal1
PW: Password of the user
Database: name of the data base (according to SQL-server)

© 2026 Boyum IT Solutions A/S

Important: Blanks are not allowed at "user" and "pw". Blanks have to be replaced with "³", e.g. my³database.

Example:

"....beas\beas.exe\ terminal user=station1 pwd=abc database=trainingdb

License concept and installation

SAP License rule:

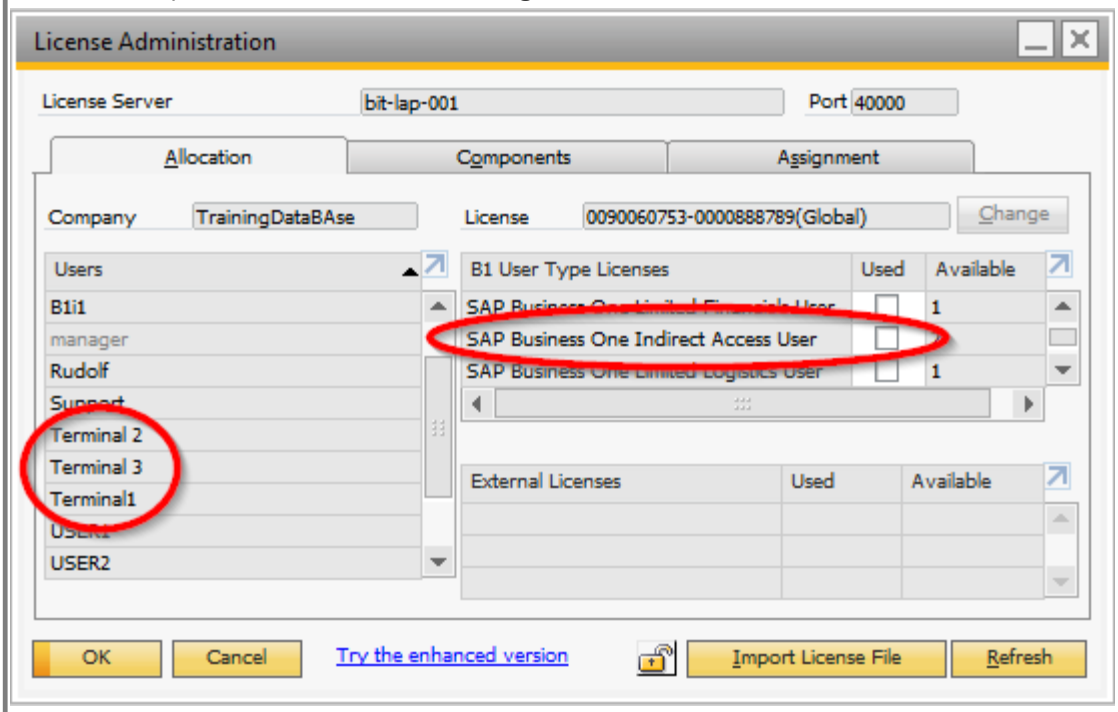
For using the functions of the Beas Terminal, you need a SAP Business One - indirect license.

Note: consult also the actual License rules of SAP Business One.

SAP B1 License for Terminal

For every station you need a separate SAP B1 User, e.c. Terminal1, Terminal2 etc.

For this user you must define the following SAP Authorizations:

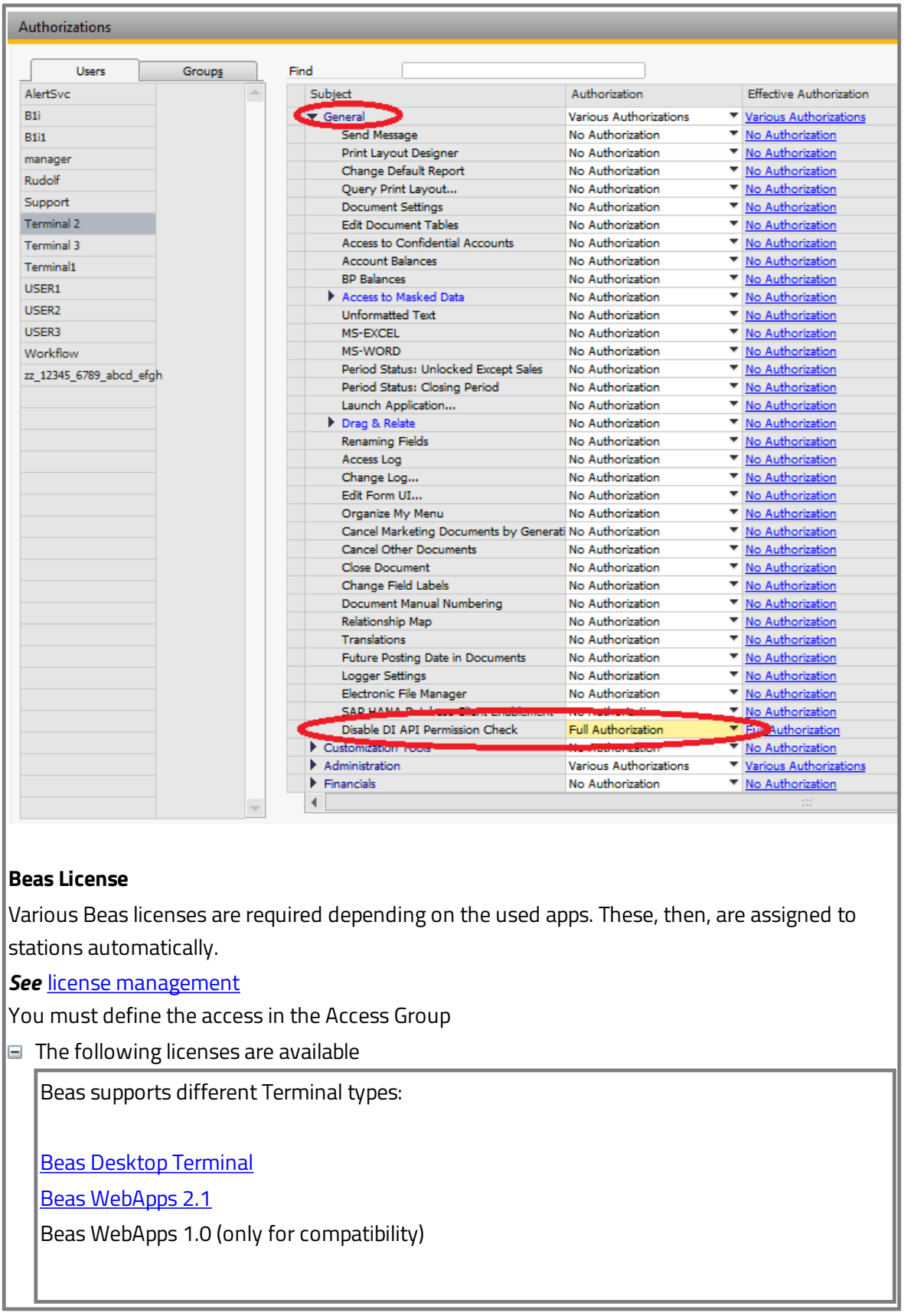


SAP B1 Authorizations

Administration - System initialization > Authorization > General Authorizations

General > Disable DI API PERMISSION CHECK on "Full authorization".

© 2026 Boyum IT Solutions A/S



Beas License

Various Beas licenses are required depending on the used apps. These, then, are assigned to stations automatically.

See license management

You must define the access in the Access Group

- The following licenses are available

Beas supports different Terminal types: Beas Desktop Terminal Beas WebApps 2.1 Beas WebApps 1.0 (only for compatibility)

© 2026 Boyum IT Solutions A/S

All use the same license pool with the same concept:

In **Terminal Functions > Edit Group > Choose apps** you can see the License needed for the apps.

Concurrence of users

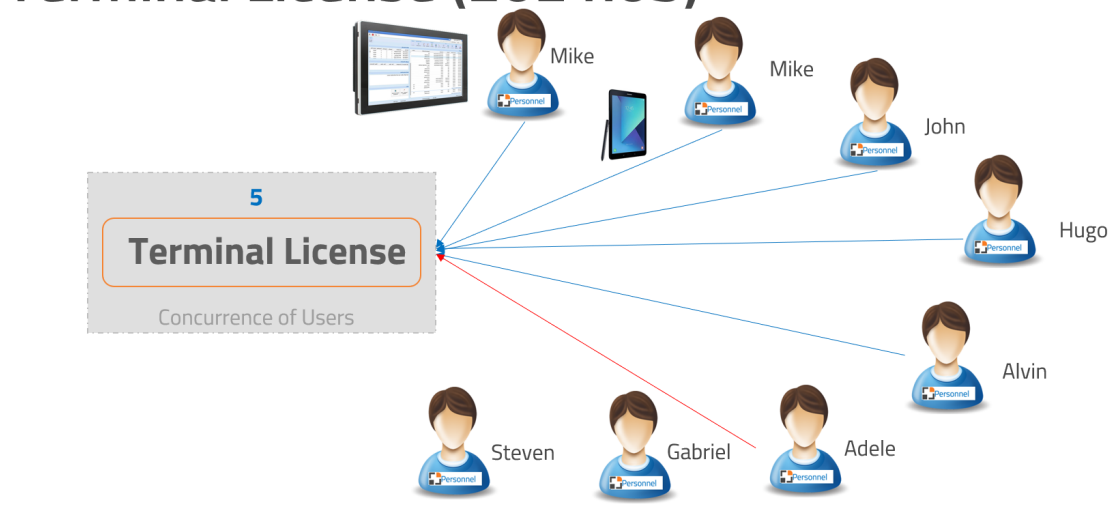
IMPORTANT: User login blocks all licenses that are assigned to the user! These licenses are released for use again once the user logs out.

Licenses can be reserved by user, machine or Beas operators.

See License Administration (Beas)

Article on License administration questions and answers

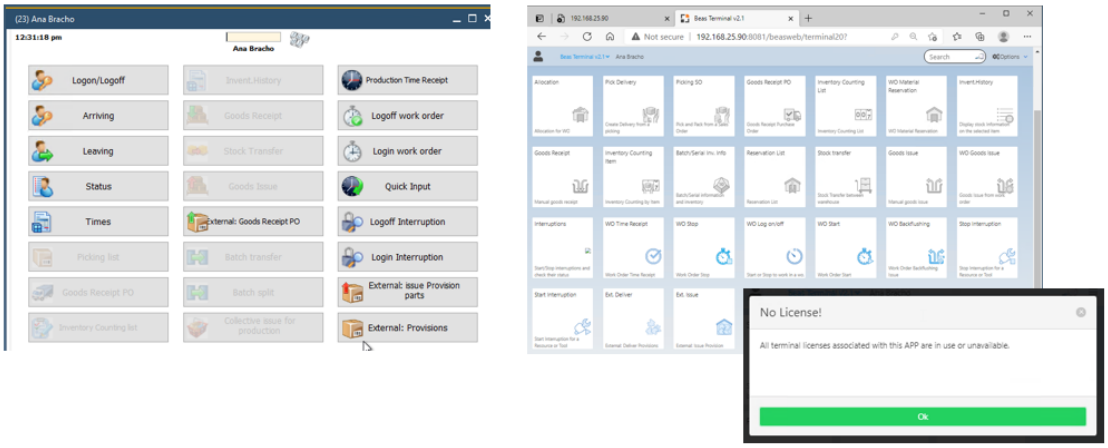
Example: A company has 5 Terminal licenses. Five users are using the 5 licenses each - therefore, the number of available licenses is 0.

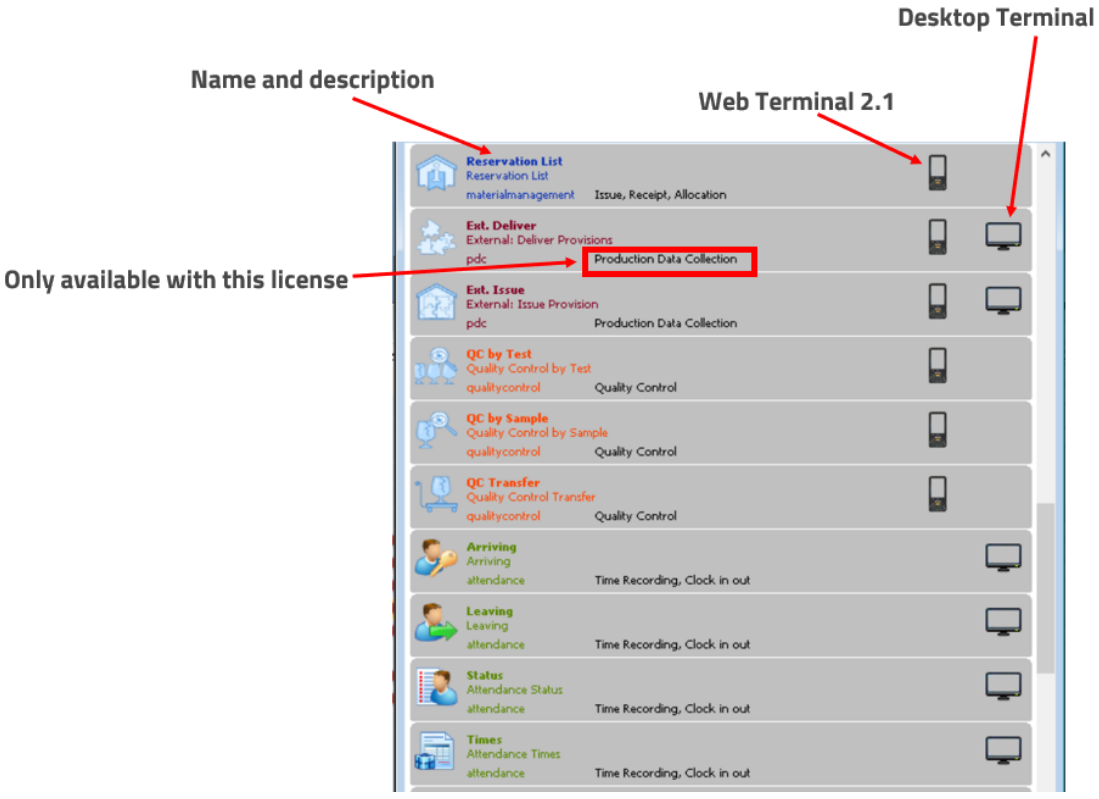


Apps that are not available for the user in lack of license are grayed out (disabled).

© 2026 Boyum IT Solutions A/S

License In Use: *when a license is not available*





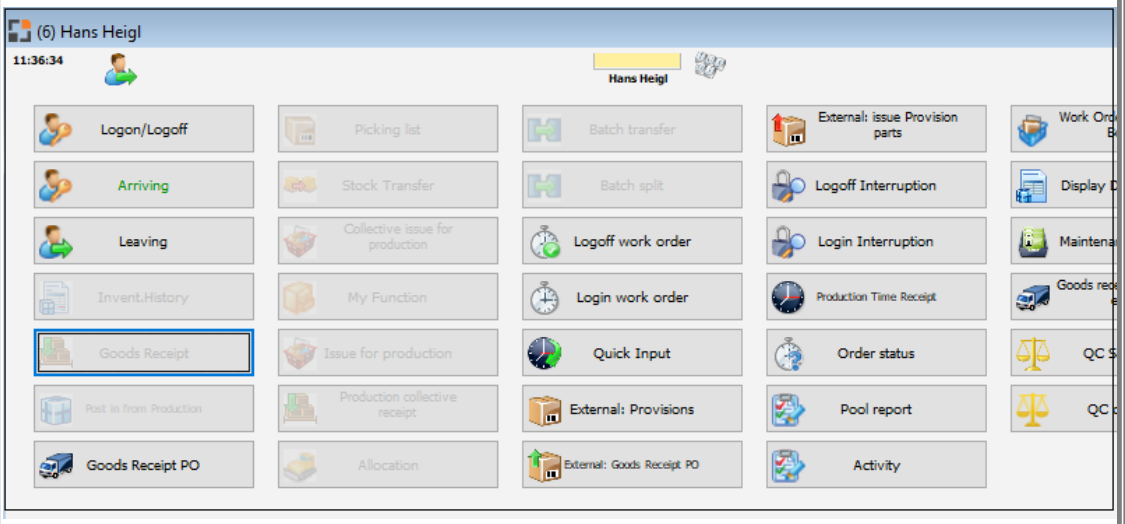
NOTE: Upon login all available licenses related to the authorization groups will be set as "In Use".

Desktop Terminal

If you start the Desktop Terminal, you do not need any license.

© 2026 Boyum IT Solutions A/S

If you login in Desktop Terminal, the system tries to use needed licenses. If available, the license will be reserved. If not, the app needing the license is grayed out. If you hover the mouse over or click on the button, you can see the info that the license is not available.



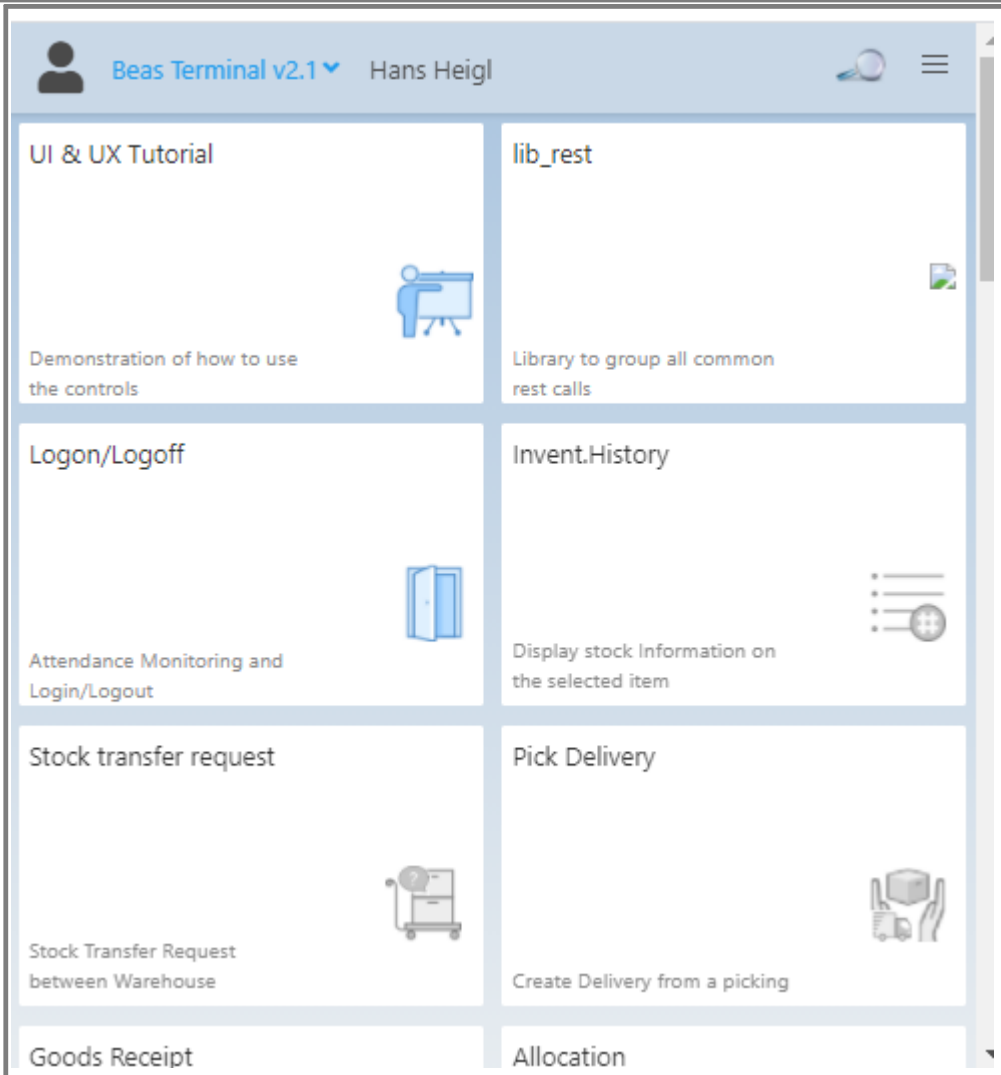
WEB APP

In WEB APP the license is reserved in the moment of Login.

Note: The user must choose "Logout", otherwise other users cannot use the license up to 10 Minutes.

If the license is not available, the system displays the APP in gray.

© 2026 Boyum IT Solutions A/S



Note:

Do not try to manipulate the system. If you delete the license information, the back-end will not work correctly.

ATTENTION: If you close WebApps without logging out, the system keeps the license in use for several minutes. After that the system automatically releases the license.

- Time Synchronisation

© 2026 Boyum IT Solutions A/S

The terminal does use the server time, not the time of the client. Time zone settings of Windows **System - Time zone** is taken into account.
For permission reasons Beas does not synchronize with the time of the operating system. It may be that on the client a time is displayed which is different from the terminal program.
The terminal program synchronizes with the server in 30 minute intervals. This way, a correct time is always guaranteed, as long as the time on the SQL server is set correctly.

Logon:

Enter card number to log in. All released apps are displayed. After 60 seconds of idle time, the user is logged off automatically. This timeout can be set up.
At logon it is checked, which applications are to be used. (set up in Station settings). If a person logs on, it is checked, whether a satin specific menu was set up. If there is none, the menu is used, set up in Personnel master.

Note:
As long no Authorization group was created, Standard-Apps are displayed. After an authorization group was created, you need to store on in Personnel master of an employee, otherwise they will not have access to the Terminal
In station settings, you can set up: Control (mouse/keyboard), Image (Logo), preview screen, menu.

Right-click menu:

Function	Meaning
Cancel	Terminal is closed. If started in terminal mode, the user needs to enter their card number before, to prevent an accidental logoff. Note: If the terminal is not started in terminal mode and another user logs in there than in the application, all postings and material movements outside the terminal screen are connected to the user who logged in to the terminal. This situation continues until a logoff in the terminal screen.
Logoff	Employee logs off immediately. The ESC-key can also be used. After 20 seconds of idle time, the user is logged off automatically if no other window is opened. This logoff time (timeout) can be changed in the Work station settings.

© 2026 Boyum IT Solutions A/S

Function	Meaning
	For attendance time registration, a shortened timeout can be activated in Configuration wizard - Attendance - Terminal.
Zoom	Only in Terminal-Mode: "Zoom"-Function accessible via right-click or Ctrl+Z. Enter a value between 90 and 170 to apply a zoom factor (in percent) All sub-screens are affected.
Mode: Keyboard	Switch to keyboard control. For each button a letter is displayed to call the function. This settings can also be set up globally for all work stations in Station settings wizard - Edit.
Mode: Mouse	Switch to mouse control, optimized for mouse or touchscreens. This settings can also be set up globally for all work stations in Station settings wizard - Edit

see

Personnel master data

Program group Administration

17.3.1 Attendance apps

This chapter is dedicated to applications in the Attendance area in the Desktop Terminal.

Logon/Logoff

Arriving

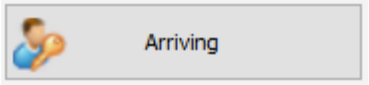
Activity

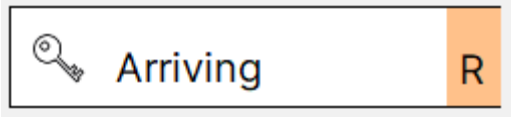
Leaving

Status

Times

17.3.1.1 Arriving





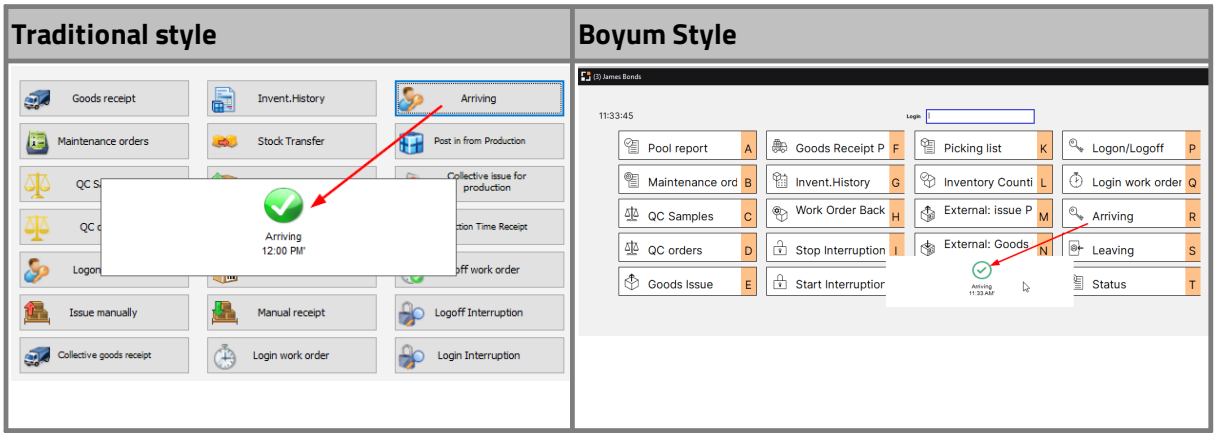
Available with the Time Recording, Clock In, Clock Out, Absences license.

See Terminal settings in Configuration wizard.

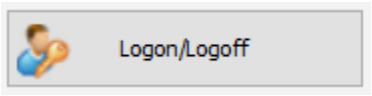
© 2026 Boyum IT Solutions A/S

With this app you can log in to start work. An informational message pops up showing arrival with the exact time (***see*** image below). The message pop-up screen disappears shortly after providing the information.

In case the user was already logged in, the system displays an error message.



17.3.1.2 Logon/Logoff



Available with the Time Recording, Clock In, Clock Out, Absences license.

See Terminal settings in Configuration wizard.

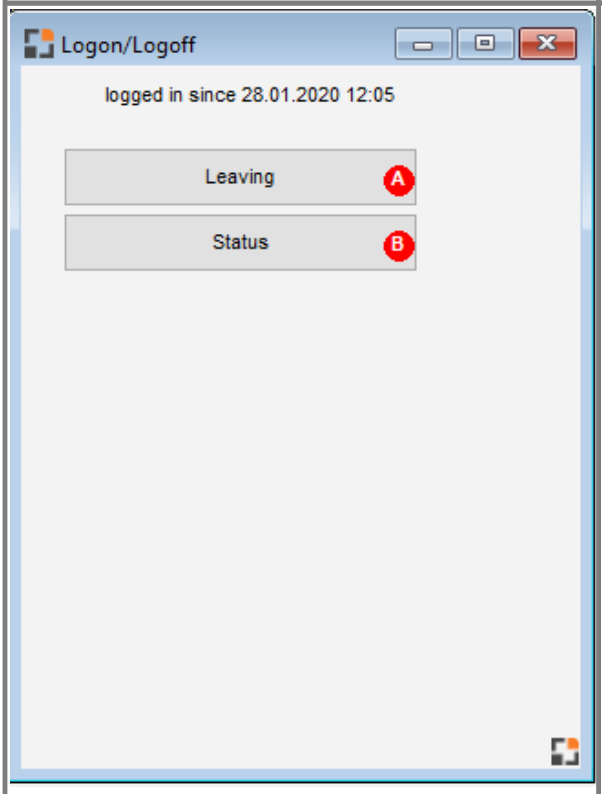
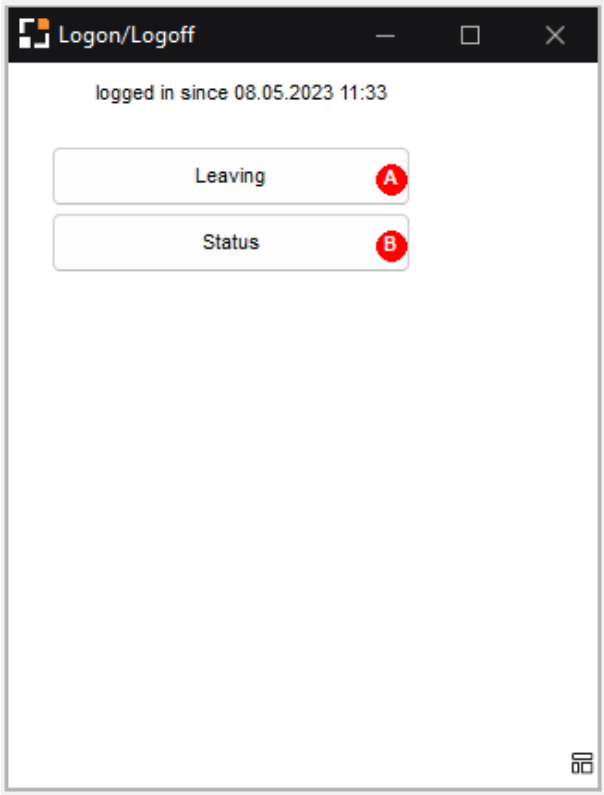
This app is serves as a short informational window on login information and also links to two other apps:

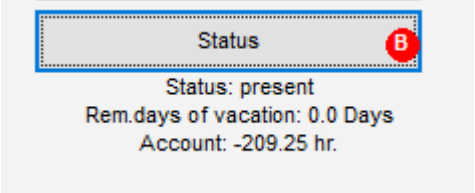
Arriving/Leaving

Status

The window closes automatically after a few seconds.

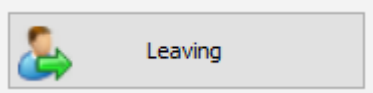
© 2026 Boyum IT Solutions A/S

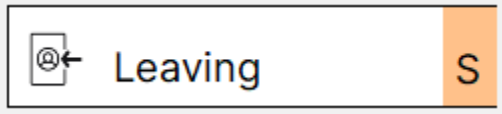
Traditional style	Boyum Style
 *Window terminal_attendance*	 *Window terminal_attendance*

Button	Description
Arriving/Leaving	The button caption depends on current login status and has the same function as the apps with the identical name.
Status	By clicking the button, three items of the report from the Status app appear under the button. - Status: present/absent - Rem.days of vacation: X.X days - Account  ***See*** Status.

© 2026 Boyum IT Solutions A/S

17.3.1.3 Leaving



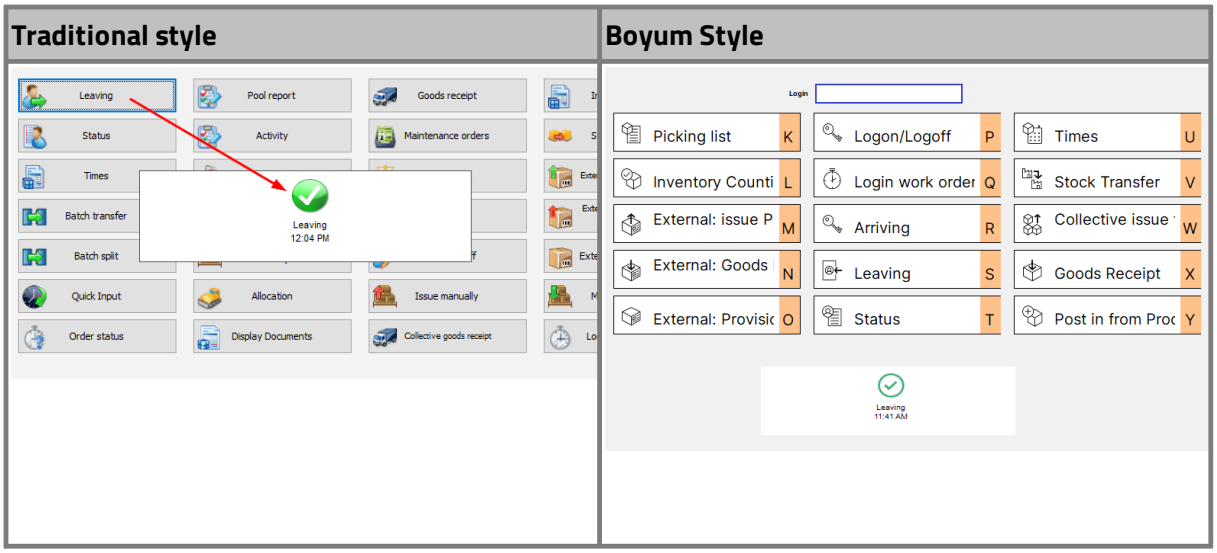


Available with the Time Recording, Clock In, Clock Out, Absences license.

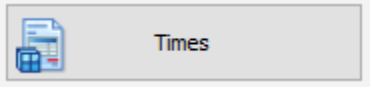
See Terminal settings in Configuration wizard.

With this app you can log off to finish work. An informational message pops up showing leaving with the exact time (***see*** image below). The message pop-up screen disappears shortly after providing the information.

In case the user was already logged in, the system displays an error message: "You are not logged in. Logoff not possible!"



17.3.1.4 Times



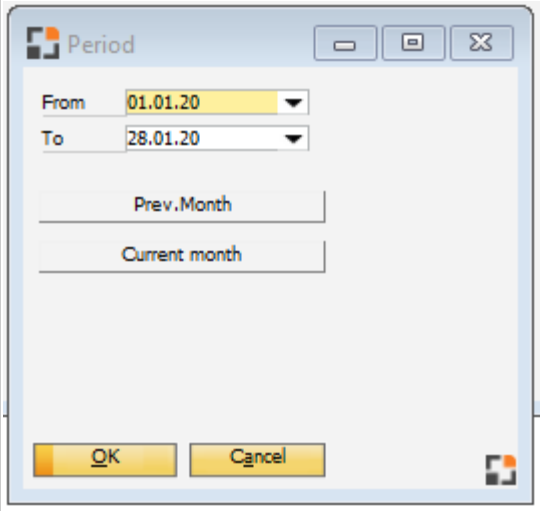
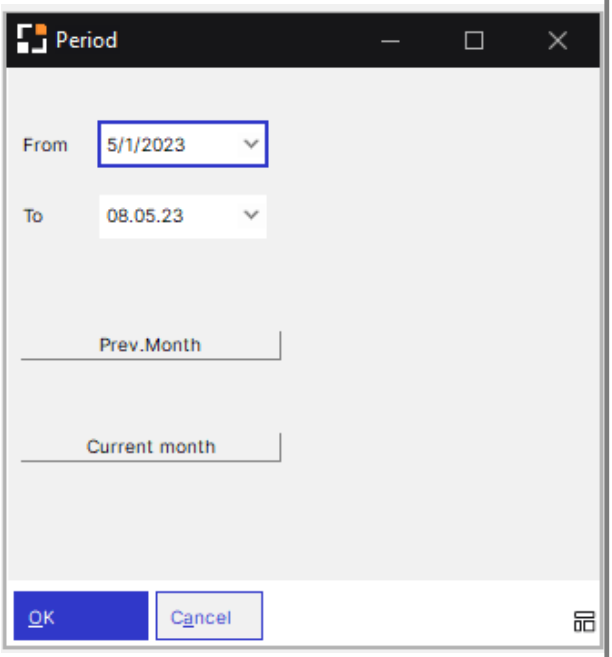
Available with the Time Recording, Clock In, Clock Out, Absences license.

See Terminal settings in Configuration wizard.

With this app you can retrieve the complete Time evaluation of the logged in user for a period. ***See*** Time evaluation.

When clicking on the app button, a window appears to define the period of the Attendance report:

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style
 *Window system_von_bis_auswahl.psr*	 *Window system_von_bis_auswahl.psr*

Functions

Field	Description
From/To	Define a specific period for time evaluation by selecting the days from the calendar.
Prev.Month	With this button you can automatically select the full previous month.
Current month	With this button you can automatically select current month - naturally up to the actual day of evaluation

Time evaluation

Clicking on "OK" in the Period window, the Time evaluation attendance report opens.

See Personnel, Time evaluation, Time evaluation configuration, Report definition

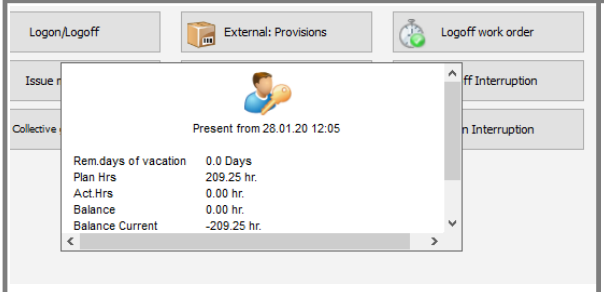
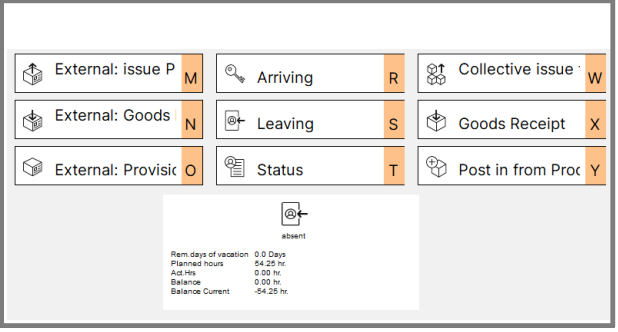
17.3.1.4.1 Status

© 2026 Boyum IT Solutions A/S

Available with the Time Recording, Clock In, Clock Out, Absences license.

By clicking on this app you receive an informational message showing current status and records on working hours and vacation days.

The message pop-up screen disappears shortly after providing the information.

Traditional style	Boyum Style
	

Information	Description
Present from... / absent	Current status: - Present from + date + hh/mm - absent
Rem.days of vacation	The remaining days of vacation provided in days.
Plan Hrs	Planned hours, calculated based on the shift plan ***See*** Determination of planned time
Act.Hrs	Determined attendance hours.
Balance	Balance of working hours.
Balance Current	Current Balance of working hours.

See Personnel, Configuration of time evaluation

17.3.2 Material management apps

This chapter is dedicated to applications in the Material management area in the Desktop Terminal.

Goods Receipt

Batch transfer

Batch split

Goods issue

Manual receipt

© 2026 Boyum IT Solutions A/S

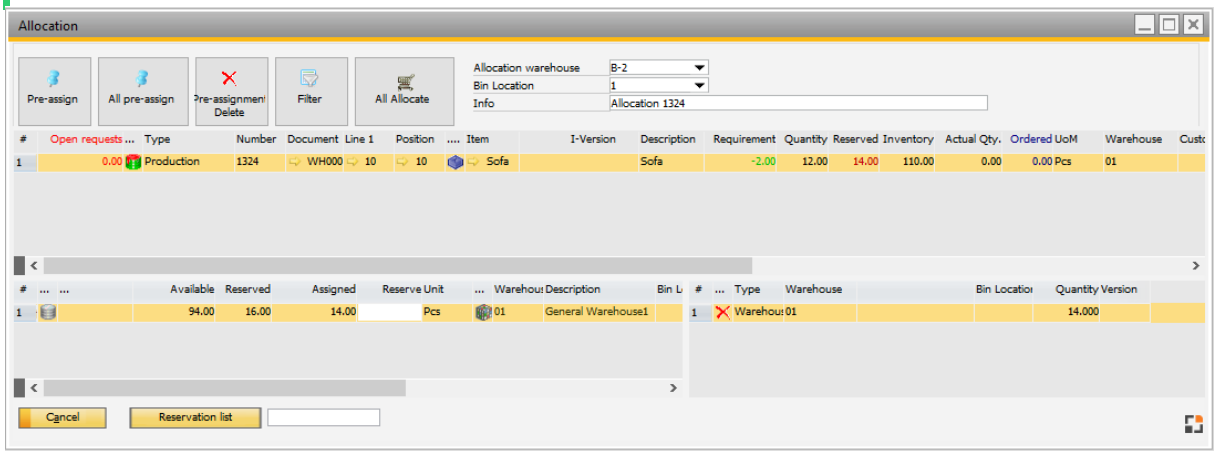
Stock transfer
Collective goods receipt
Invent.History
External Goods receipt
External issue Provision parts
External provisions
Picking list
Inventory Counting list

17.3.2.1 Allocation

Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.
See Terminal settings in Configuration wizard.

This app opens the Allocation window.
The allocation/deliver function is used to transfer material needed for a work order from a default warehouse to an allocation warehouse. The material is also reserved for that work order. When doing an allocation, Beas creates a transfer document. Usually this is cost-neutral and not assigned to the work order.

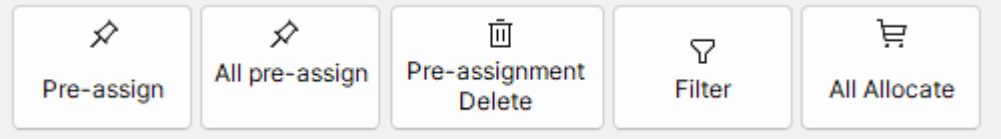
PATH: Production > Work Orders > right-click an allocation in the WO structure / right-click an item > "Allocation".



Window reservation_set_master.psr

Boyum Style top bar buttons design:

© 2026 Boyum IT Solutions A/S



- Prerequisites

Reservation system must be activated.
Allocation warehouse has been defined as type.

- Process of allocation

Transfer from standard item warehouse or from warehouse defined in BoM to the allocation warehouse. Goods are transferred via SAP Business One-transfer function to the allocation warehouse, a reservation is created. After finishing the product: manual or automatic backflushing of the material.

See: Reservation system
Backflushing

Charge off reserved material

Window structure

Header Functions in header	
Requirement list	
Inventory list	selected material

- Scanner support

The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:
Production > Material posting > Backflushing > Material posting with scanner.

Active:
A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.
If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message

© 2026 Boyum IT Solutions A/S

is issued.

Inactive:
Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.
Serial number: quantity is accepted immediately.
Item: entry selected, cursor is set to quantity field.

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.
Error messages are issued in no case.

See
Configuration wizard – Material posting with scanner
Reservation
Material issue
Allocation
External operation Allocation
External operation issue

fert_scanbatchqty (J)

Fields right of the ribbon
Only some fields explained in the table below are displayed, depending on the work flow.

Field	Meaning
Posting date	**Postings**: select the posting date.
Allocation warehouse	**Allocation**: allocation warehouse. Setting is saved per work station. Note: this has no effect on the reservation and issue screen. ***See*** Reservation window, Material posting.
Bin location	Bin location of the external warehouse to which material is transferred (field is only displayed if the warehouse has bins). For reservation the definition of Bin Location is mandatory
Address	Address of the external warehouse.

Functions in upper ribbon:

© 2026 Boyum IT Solutions A/S

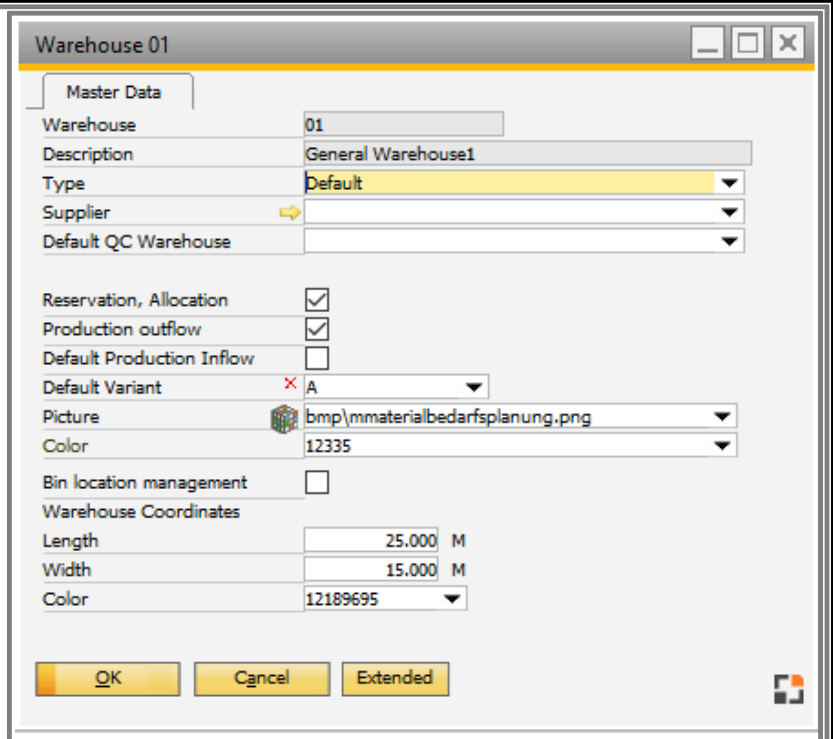
Button	Meaning

Pre-assign Quantity (manually)	Visible in WO Stock Transfer Request window.
	With this option the user can manually pre-assign quantities for each material line based on the equivalent amount of the parent product. In the quantity field you can specify the quantity of the parent product. Apply changes for the selected lines.
	Example:
	To manufacture 1 product A, you need:
	• 2 MA
	• 3 MB
	  • 20 MA
	  • 30 MB
	  • 2 * 2 = 4 MA
	  • 2 * 3 = 6 MB
	  • If Quantity is <= 0, the status bar message appears: "a quantity is required for pre-assigning"
	  • if Quantity is > 0, calculation is made for each Material in the list, considering part of the quantity of this BoM according to the Parent Quantity Field on the pre-assign button. Consider proportion of calculated scrap quantity. The result will be in the Column "Request" of the Material List.
	  • If you have reservations, the system will assign the reserved quantity to the right matrix.
	  • Beas create a transfer request document in background. This don't support any Bin management system. It is possible to choose item from bin managed warehouse, but the bin location information is not saved in the transfer request document
	Pre-assign Batches and Serials:
	Attention: In WO Stock Transfer Request, the pre-assign process does not select any batch/serial numbers, unless there is an existing

© 2026 Boyum IT Solutions A/S

	reservation. ***See*** WO Stock Transfer Request creation process.
Pre-assign	All entries selected in the upper list will be pre-allocated automatically Sorting 1. Reserved goods for this order line 2. Allocation warehouse 3. Default warehouse as per BoM or standard warehouse of the item Within this, batches and serial numbers are sorted by withdrawal rules according to the configuration wizard. ***See***: Configuration wizard. Normal items (not batch- or serial number related) will be pre-allocated only if the issue method was set to "automatic" in the Item master. ***See*** Item master – Issue method. Allocation rules **Batch and serial numbers** Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard. ***See*** Configuration wizard – Backflushing **Warehouse** Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.) ***See*** extended warehouse settings Available at **General settings > Warehouse > Warehouse master data > Extended**

© 2026 Boyum IT Solutions A/S



Window bin_whs_edit.psr

Attention

SAP Bin Management not supported.

Window bin_whs_edit.psr

Pre-assign Batches and Serials:

Attention: In the WO Stock Transfer Request, the pre-assign process does not select any batch/serial numbers, unless there is an existing reservation.

Extended rules

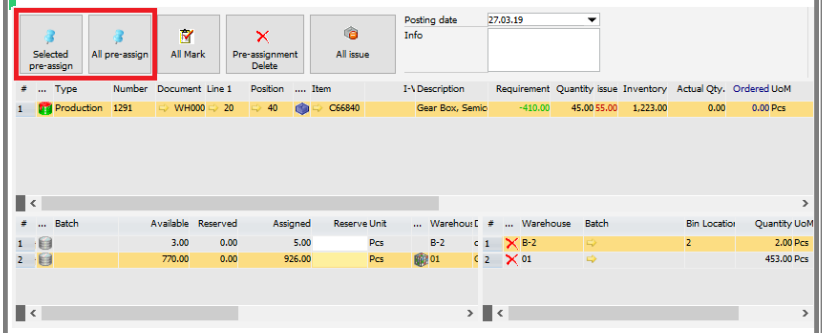
Extended rules can be stored in the function `workordermanagement.setres_reservation()`.

See Extended rules

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.

See Material booking > Automatic pre-assignment setting.

© 2026 Boyum IT Solutions A/S

	PATH: Production > Work orders structure > right-click an entry > "Reservation".  *Window resevation_set_master.psr* **Boyum Style button design:** These extended rules can be stored in the function "`workordermanagement.src`". (In project folder) Depending on the window a specific function is called, for example for reservations `setres_reservation()` ***See*** Pre-Assign buttons description For more information ***see*** UserEvents UserEvents for PreAssign
Pre-assign all	All entries are marked and then reserved. ***See*** Pre-assign and Pre-assign Quantity (manually) above.
Delete reservations	All reservations are deleted
Filter	**With shortage:** Display only items which still need to be allocated **Only allocation ID**: Only items with activated allocation ID (item master – allocate) **Standard:** All items which need to be allocated

© 2026 Boyum IT Solutions A/S

	All: All items. Also items which do not need to be allocated
Create Request	- visible in WO Stock Transfer Request window. With this button you can create a stock transfer request by pre-assigning quantities for the requested materials of a work order. The created request is then displayed in the work order structure. ***See*** WO Stock Transfer Request creation process.
All Allocate	- visible in External Production - Deliver Provisions Transfer all provisions
Close Transaction	- visible in External Production - Deliver Provisions Close transaction when creating the Goods Receipt Purchase Order document.

Right-click menu

Item	Meaning
Reservation list	Opens the reservation list
Reservation delete	Deletes existing reservations.
Filter: All	Lines which have been posted are also displayed.
Filter: only requirement	Standard view. Only lines which have not been posted are displayed.

Buttons below

Button	Meaning
Reservation list	Open the reservation list.
Inventory history	Open inventory history for the selected item.

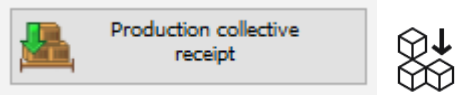
Notes

- WMS, SAP and Beas Bin management system is supported.
- Beas RFID and WMS Luid is supported.
- Not possible to create issue for the same batch from different Bin locations or same Bin locations but different RFID/LUID.

back to list of provision parts
back to work order general

© 2026 Boyum IT Solutions A/S

17.3.2.2 Production collective receipt



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.

See Terminal settings in Configuration wizard.

With this app you can create a collective receipt for production.

Clicking on it, a window pops up to enter the Bar code of the WO position:

Traditional style	Boyum Style

After entering the bar code, the collective receipt window appears.

The function collective post-in is available for merged work orders. All assembly items and **negative** BoM items can be posted at once. There is no material backflushing.

The function is accessible via:

PATH: Production > Work order structure > right-click on production order > Collective receipt.

or

PATH: Terminal > app "production collective receipt".

If called from work order structure, several work orders can be selected at once.

Batches, automatic batch determination, serial numbers, automatic serial number determination bin location management are supported.

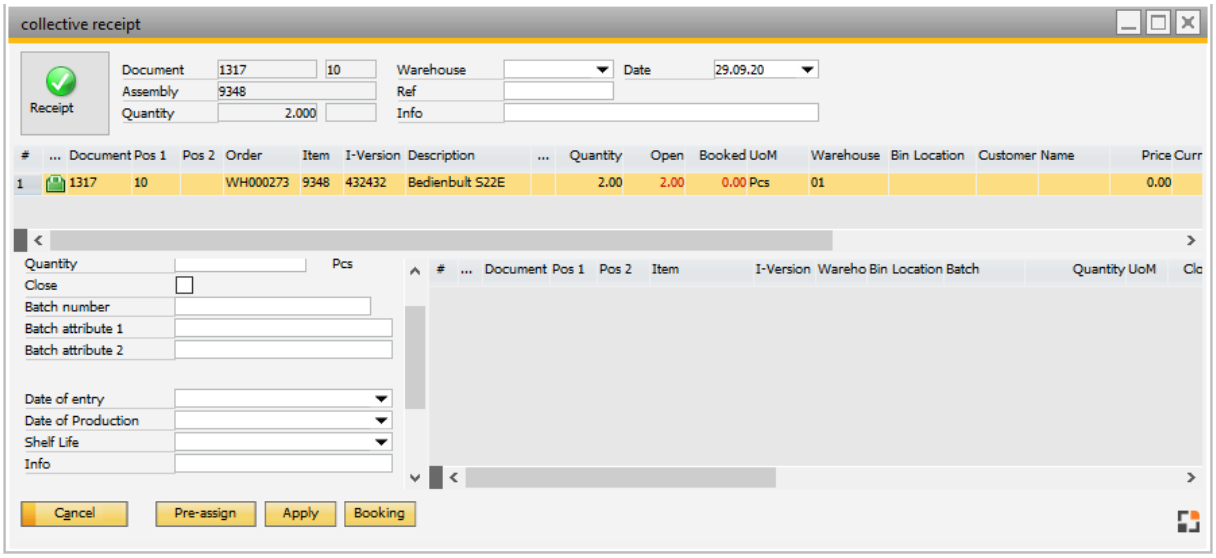
WMS Integration: Produmex WMS Batch attributes are supported.

Serial number reservation is not supported.

The window consists of three sections:

© 2026 Boyum IT Solutions A/S

Upper section	Planned receipt List is adjustable via **Right-click > Window settings.**
left below	Enter the quantity to post in for the currently selected (above) line Enter quantity, batch number, batch attributes, and price
right below	Displays already selected items



Window fert_postin_summary_header.psr

Workflow

1. With cursor up/down the next position from the upper list can be selected.
2. In the left window you can insert additional information such as Quantity, Batch number etc.
3. With the "**Apply**" button you can choose the position with the defined quantity,
4. With "**Booking**" you can create the receipt document.

For batches and serial numbers with automatic number generation, only the quantity can be entered, because the numbers are automatically generated when creating the accounting document.

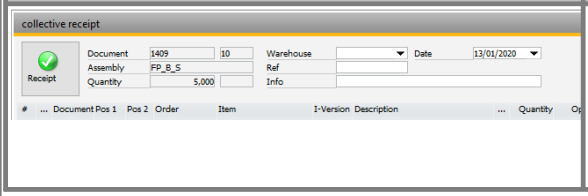
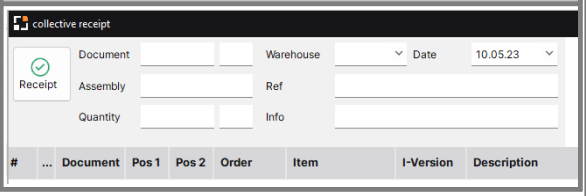
The expiration date is pre-assigned automatically. ***See*** Item - batch - shelf life

In production type you can set up whether batches or serial numbers are generally entered manually (enable manual batches). In this case batch numbers always need to be entered (e.g. for disassembly). ***see*** Production type - manual batches

Field descriptions

- Header

© 2026 Boyum IT Solutions A/S

Traditional style	Boyum Style
	

Display the current work order. If more than one work order is chosen, the system displays the first work order

The following additional fields define properties for the receipt document.

Field	Description
Warehouse	If empty, the system uses the warehouse defined in the work order. If you change the Warehouse, all positions are receipted on this warehouse. Note: If you change the Warehouse and work with different WIP Accounts, this can produce problems in accounting! If you choose a warehouse from another branch, the receipt returns an error. ***See*** Warehouse rules.
Ref	Reference displayed on the Receipt document. If empty, the Bar code of the Work order is displayed.
Info	Additional reference. If empty, the note on the current work order is shown.
Date	The posting date. You can define a posting date for the past.

Upper list

Planned receipt is displayed in the upper list. Use window settings to adjust.

Note on WMS Integration

If the receipt is made from Beas in a WMS warehouse, it applies the Quality status defined in

© 2026 Boyum IT Solutions A/S

Produmex WMS > Organizational Structure > Production tab.
It is not recommended to have more than 1 serial number per LUID, because the WMS Quality Status cannot be defined per serial number.

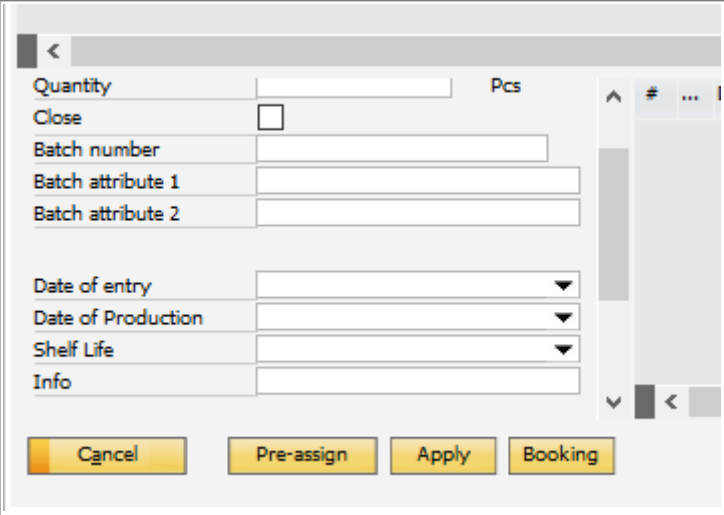
Field	Description
Document	Work order document
Pos 1	Document position (Assembly)
Pos 2	BoM item (for assembly always 0) otherwise the Pos-ID of the BoM with negative amount
Order	Order number of work order document
Item	Item number of the assembly
Designation	Designation of the assembly
Quantity icon	Visual display of registered quantity (empty) – no registration some quantity has been registered the correct quantity has been registered too much registered
Quantity	Planned total quantity as per work order (without scrap) in warehouse units
Open	Quantity still to post in: Planned quantity - posted qty + canceled qty - selected qty = open (in warehouse units) Column is display in colors: Red = open > 0 (still something to post) Green = open = 0 (everything completed correctly) Blue = open < 0 (too much was posted)

© 2026 Boyum IT Solutions A/S

Posted	Already posted quantity: posted qty - cancelled qty + selected qty = posted (in warehouse units) Column is display in colors: Red = open > 0 (still something to post) Green = open = 0 (everything completed correctly) Blue = open < 0 (too much was posted)
Unit	Unit (warehouse unit)
Warehouse	Warehouse to post to. Note: The warehouse stored in thew work order item is displayed. If no warehouse was entered, the default warehouse of the assembly is used.
Customer	Customer number from the work order
Name	Customer number from the work order
Quantity CU	Planned quantity without cut-off in consumption units
Unit CU	Unit in consumption units
Factor	Conversion factor between warehouse and consumption unit
Price	Manually entered price 0 = Price is determined automatically Price valuation ***see*** Configuration wizard – Calculation Entry of price only possible if enabled in production type. ***see*** Production type – manual price

Left window

© 2026 Boyum IT Solutions A/S

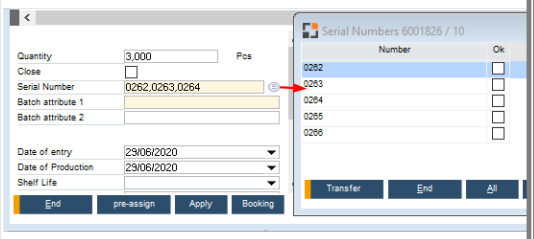


In this area you can insert details for the Assembly or Bill of materials for post in.

Field	Description
Bin Location	Define the Bin Location. Only visible in case of bin-managed warehouses. ***See*** Warehouse rules. Note / Limitation: If you book one work order position on a different bin location, the system creates one document line per Bin location.
LUID	Define LUID number. ***See*** LUID behavior settings.
Quantity	Define the post-in Quantity
Close	Define if the work order position or Bill of material position should be closed: If "close assembly automatically" in Configuration wizard is activated and the total receipt quantity is equal to or bigger than the planned quantity, the system activates this flag automatically. *Beas 2020.02* Note: The system cannot close the complete work order.

© 2026 Boyum IT Solutions A/S

Field	Description

Batch / Serial Number	Define the Batch or serial number:
	Items with automatic batch Generation:
	If you insert a batch/serial number, the manual input has higher priority.
	Otherwise, it generates the batch/serial number automatically.
	
	Working with Serial number reservation
	If Serial Number reservation is active, the system uses the next reserved serial numbers automatically.
	Alternatively you can choose one of the reserved serial numbers *beas 2020.08*
	 
	
	Serial numbers with comma
	You can insert more than one serial number. Delimiter is comma:
	`serial-a,serial-b,serial-c ...`
	Limitation: max. field size is 1024 characters.
	
	Serial number with definition string
	The numbering must be inside brackets: { and }
	
	Example: `AB{0001}C` produce follow serial numbers:
	`AB0001C, AB0002C, AB0003C,AB004C,...AB012C ...`

Batch attribute 1	Define the Batch attribute 1 and 2

© 2026 Boyum IT Solutions A/S

Field	Description
Batch attribute 2	

Price	Define the price:
	Only visible for material positions, not for assemblies.
	
	If you prefer manual price entry, active this in production types (can be determined depending on production types) . ***see*** Production type – manual entry of price. Price entry is only allowed for negative BOM items. For assemblies (pos 2=0) are valued as default, which is set up in the Configuration wizard.
	
	Automatic pricing
	If no price is entered for negative BOM items they are valued as for negative material postions. ***see*** Material price list negative BOM
	
	Customizing:
	With beasscript the price can be manipulated: available functions:
	`workordermanagement:getprice_negativposition`
	The following variables are available:
	`e_type=receiptwo, e_belnr_id, e_belpos_id, e_pos_id, e_itemcode, e_towhscode, e_price`
	In variable `e_price` the price can be returned. This process cannot be cancelled.

Date of entry	Post-in date
Date of production	Production date
Shelf life	Shelf life for assembly positions: if not defined, the system calculates the shelf life automatically. ***See*** Item - Batch - Shelf Life in

© 2026 Boyum IT Solutions A/S

Field	Description
	Days

- Right window

In the right window you can see all items, for which you defined the quantity

Field Descriptions

Field	Description
/	Delete current line
Document	Work order document number
Pos 1	Work order position
Pos 2	If work order: 0 If Bill of Material: The BoM Position number
Item	The Item No.
I-Version	The Item Version
Warehouse	The defined Warehouse
Bin location	The defined Bin location
Batch	The defined Batch. If empty, the system defines this automatically.
Quantity / UoM	Receipt quantity and Warehouse unit
Close	If active, the system closes the position after the receipt document. This flag is editable (Window settings). Note: If you have more than one entry for the same document line, the system reads the closed information from the last entry.

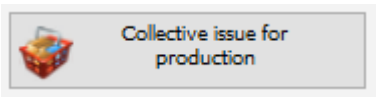
- Buttons

Button	Description
Pre-assign	Pre-assign all planned receipt quantities. **Limitation:** Not possible if warehouse is bin-managed. Only for normal items or Batch/Serial Items with automatic Batch number

© 2026 Boyum IT Solutions A/S

Button	Description
	determination.
Apply	Take the current line and insert this in right window
Booking	Create the receipt document

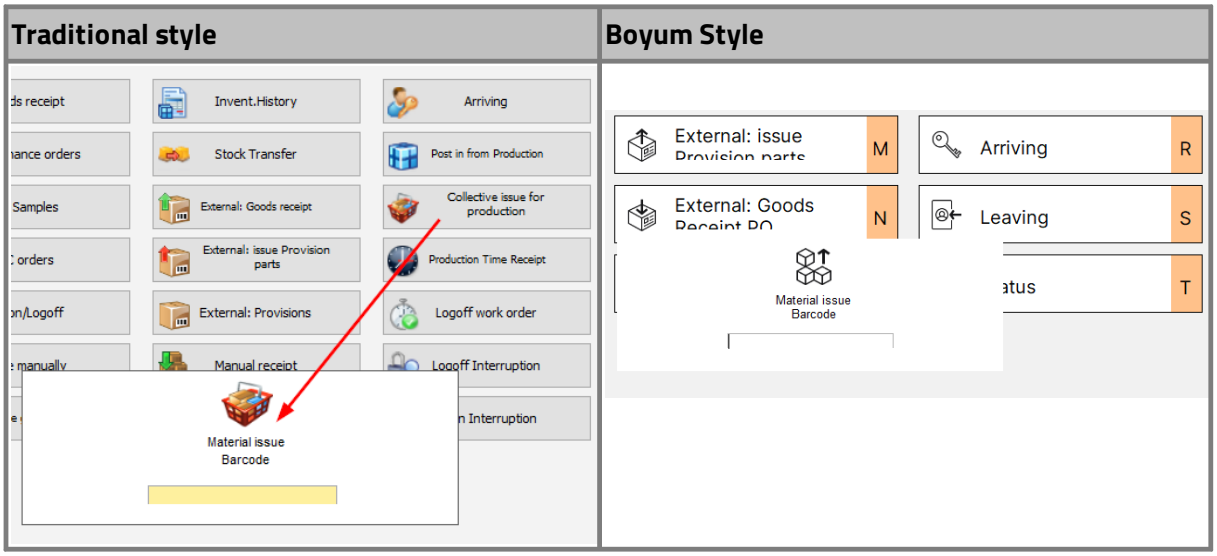
17.3.2.3 Collective issue for production



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.

See Terminal settings in Configuration wizard.

With this app you can create a collective material issue for production after providing the Bar code of the work order position in the message box that pops up:



The issue window opens:

In this window the required material is issued for a manufacturing position.

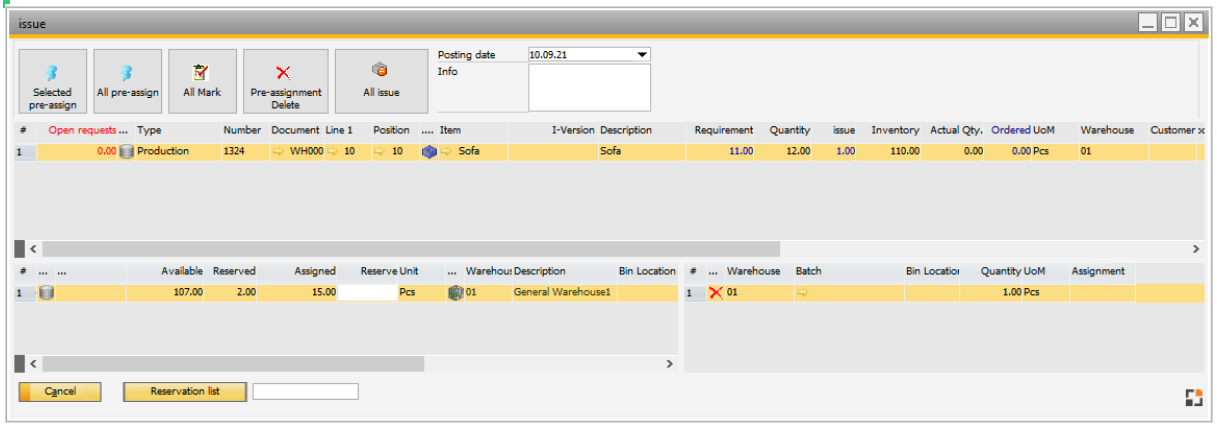
Note: For backflushing in Configuration wizard the option **Production > Material posting > Backflushing > "issue quantity changeable"** needs to be set to "Yes".

For allowing quantities to exceed planned quantities see **Production > Material posting > Backflushing > "Exceeding planned quantity allowed"**.

PATH: Production > Work Orders > right-click an issue in the WO structure / right-click an item >

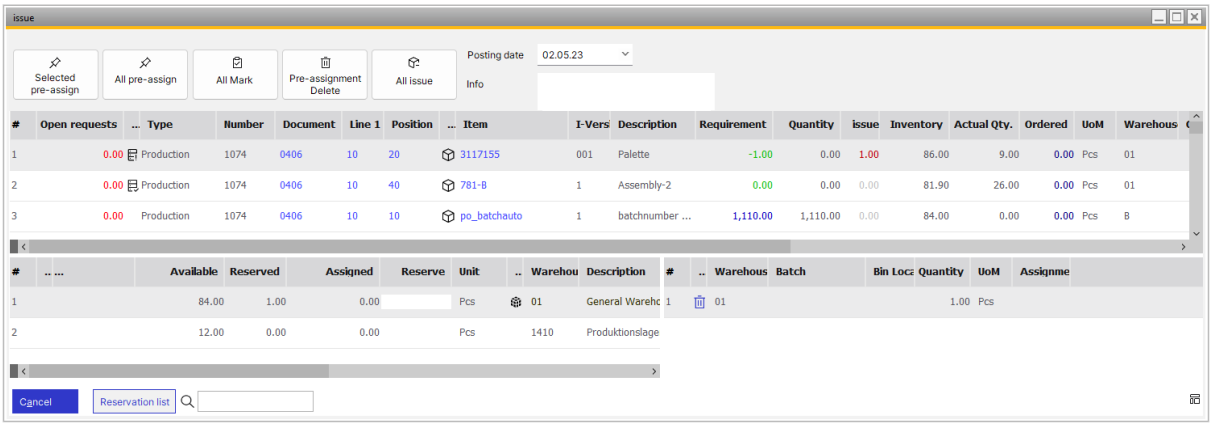
© 2026 Boyum IT Solutions A/S

"Material issue".



Window reservation_set_master.psr

Boyum Style design:



Window structure

Header	
[Functions in header]	
[Requirement list]	
[Inventory list]	[selected material]

Possible workflow variants

- **Work order structure > issue material**. Quantity refers to the full remaining planned quantity
- issue material via **routing-time receipt**. Quantity refers to time receipt screen. The material belonging to the operation is displayed. In case of the last operation to be reported, the

© 2026 Boyum IT Solutions A/S

assembly may be posted in afterwards.
- External operation **> Material issue**: to issue the planned material from an external warehouse (***see*** allocations). Quantity refers to external operation-goods receipt

- Scanner support

The active field is always the entry field in the lowest line. This can be used for registration via scanner. There are two settings:
Production > Material posting > Backflushing > Material posting with scanner.

Active:
A matching batch or serial number is searched. If an entry is found, it is used and the required quantity is accepted. If no entry is found, an error message is issued: no entry found.
If the entry is blocked, (batch status, blocked bin location) the entry is not accepted, a message is issued.

Inactive:
Beas searches for the following entries: Batch number: field is selected, the cursor is set to quantity field.
Serial number: quantity is accepted immediately.
Item: entry selected, cursor is set to quantity field.

If no matching entry was found and the entry is numeric, the current entry is accepted including the quantity.
Error messages are issued in no case.

See
Configuration wizard – Material posting with scanner
Reservation
Material issue
Allocation
External operation Allocation
External operation issue

fert_scanbatchqty (J)

Serial number linking, serial number reservation

- Default warehouse, warehouse selection

© 2026 Boyum IT Solutions A/S

In the warehouse you can set up, which warehouse is available for selection. Furthermore, the withdrawal sorting and the display can be defined using extended rules.

See

Inventory list

Extended rules

Edit warehouse master data - Production outflow

- Negative BoM items

Negative BoM items are displayed in the work order structure with the same icon and positive values. If selecting one, in the window left below not the warehouses are displayed but the entry values can be entered manually. Warehouse, bin location, batch / serial number and quantity can be entered. After entering the quantity, data is saved. Here, the same concepts apply for batch determination and pricing as used in Collective receipt *(beas9.0-000-003-014).*

- Exceeding planned quantity

The "Exceeding planned quantity allowed" parameter affects WO Material issue (Collective): the system checks the maximum allowed quantity based on total planned quantity.

Functions in upper ribbon

Button	Meaning
Pre-allocate marked entries	All entries, marked in the upper list, are pre-allocated automatically All priorities are considered: 1. Reserved goods for this order line (not in reservation window). 2. Allocation warehouse (***see*** Allocation window). 3. Warehouse and Bin Location defined in Bill of Material position 4. Default warehouse for backflushing as per Configuration wizard - backflushing - issue from allocation warehouse. Within this sorting, batches and serial numbers are sorted by withdrawal rule according to the Configuration wizard. ***See*** Backflushing - Automatic batch issue. Note: If a warehouse is stored in Configuration wizard > Backflushing > issue from allocation warehouse, only this warehouse is considered at automatic backflushing.

© 2026 Boyum IT Solutions A/S

Allocation rules

If the option "book only reservation" in the BoM position is active, only reserved entries are chosen even if they are insufficient.
See Edit Bill of Material - Book only reservations.

Non-batch/serial number related items are pre-allocated only if the issue method was set to "automatic" in the Item master data > Issue method.

Note: Allocation warehouse is set up per work station. ***see*** Allocation window.

Negative BoM items

Negative BoM items are also pre-allocated, if
a) Batches/Serial numbers are defined automatically
b) The warehouse is not a bin location warehouse

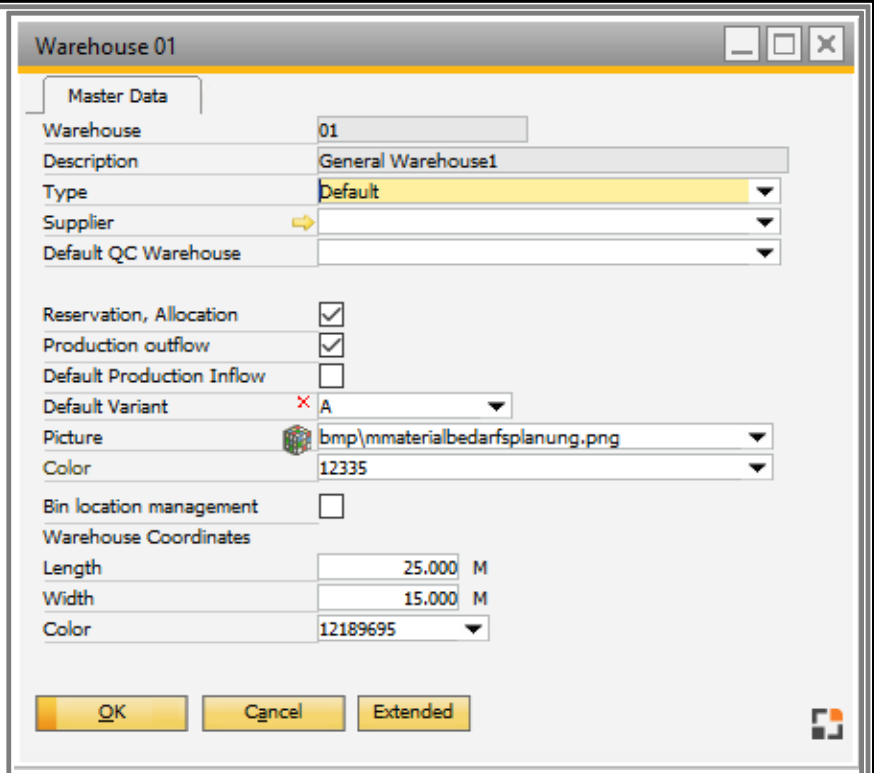
Batch and serial numbers

Within this, batches and serial numbers are sorted by withdrawal rules according to the Configuration wizard.
See Configuration wizard – Backflushing

Warehouse

Only warehouses allowed to be used for the relevant process are considered (Reservation, issue etc.)
See extended warehouse settings
Available at **General settings > Warehouse > Warehouse master data > Extended**

© 2026 Boyum IT Solutions A/S



Window bin_whs_edit.psr

Attention

SAP Bin Management not supported.

Window bin_whs_edit.psr

Extended rules

Extended rules can be stored in the function `workordermanagement.setres_supply()`

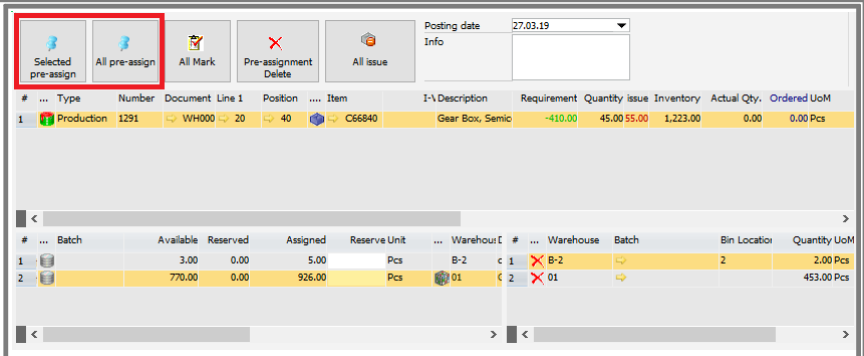
For further information ***see*** Extended rules.

In the reservation window, material issue window and in provision window you can apply customer-specific rules for automatic pre-assignment.

See Material booking > Automatic pre-assignment setting.

PATH: Production > Work orders structure > right-click an entry > "Reservation".

© 2026 Boyum IT Solutions A/S



Window resevation_set_master.psr

Boyum Style button design:

These extended rules can be stored in the function "`workordermanagement.src`". (In project folder)
Depending on the window a specific function is called, for example for reservations `setres_reservation()`

See Pre-Assign buttons description
For more information ***see***
UserEvents
UserEvents for PreAssign

Note: If working with **Report work order times > Scrap quantity**, the planned scrap and cut-off material may not be taken into account.

See
Configuration wizard – Backflushing
Requirement – Reservation window requirement – column requirement

Pre-allocate all	All entries are marked, and then pre-allocated.
Delete pre-allocations	All pre-allocations are deleted.
All issue	All marked material is charged off.

© 2026 Boyum IT Solutions A/S

Fields right of the buttons at the top

Only some fields explained in the table below are displayed, depending on the work flow.

Field	Meaning
Posting date	Select the posting date.
Info	Text field for comment.
Serial numbers	Display serial numbers to be posted in. This list is only displayed if a) the finished part is serial number related. b) the selected material is serial number or batch related. c) serial number reservation was set to automatic and serial numbers are generated automatically for the assembly or if serial number reservation was set to manually. Serial numbers to be posted in are displayed and new serial numbers to be posted in can be added. If an item is selected, it is assigned to the currently marked number. The Function "issue material" does not post immediately. Manually added serial numbers are reserved first and assigned to the work order - even if serial number reservation was disabled. Existing reservations are always displayed. ***See*** Configuration wizard - Assembly - Serial numbers The function "backflushing issue" for example via "last operation" displays only the serial numbers to post in. Additional serial numbers can be entered manually. To post in, select serial numbers by clicking the check mark. The number of selected numbers needs previously selected number. Otherwise a message is issued: (*issuewoserlnk)'Please select a serial number item and in the upper window the serial number to be posted in. Planned quantity xxx, selected yyy'*

© 2026 Boyum IT Solutions A/S

	At the assignment of serial numbers to serial numbers the material serial numbers may not be selected automatically. A manual selection is required. Therefore, it is recommended to set backflushing to of serial numbers to "manually" ***See*** Configuration wizard – Material – Backflushing – Serial numbers, Serial number reservation, Serial number tracing. *beas9.0-000-003-000*

Right-click menu

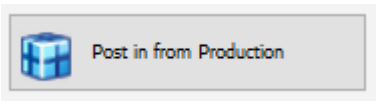
Item	Meaning
Reservation list	Open the reservation list.
Reservation delete	Delete existing reservations.
Filter: all	Lines which have been posted are also displayed.
Filter: only requirement	Standard view. Only lines which have not been posted are displayed.
New series	This button is active only if assembly and material position are serial number related. With "New series" a new serial number to be posted in later can be added and assigned to the serial number to be issued. ***See*** Serial number. *beas9.0-000-001-000*

Notes

- WMS, SAP and Beas Min management system supported.
- Beas RFID and WMS LUID supported.
- Not possible to create issue from same batch from different Bin locations or same Bin location but different RFID/LUID.

back to Work order general

17.3.2.4 Post in from Production



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.

See Terminal settings in Configuration wizard.

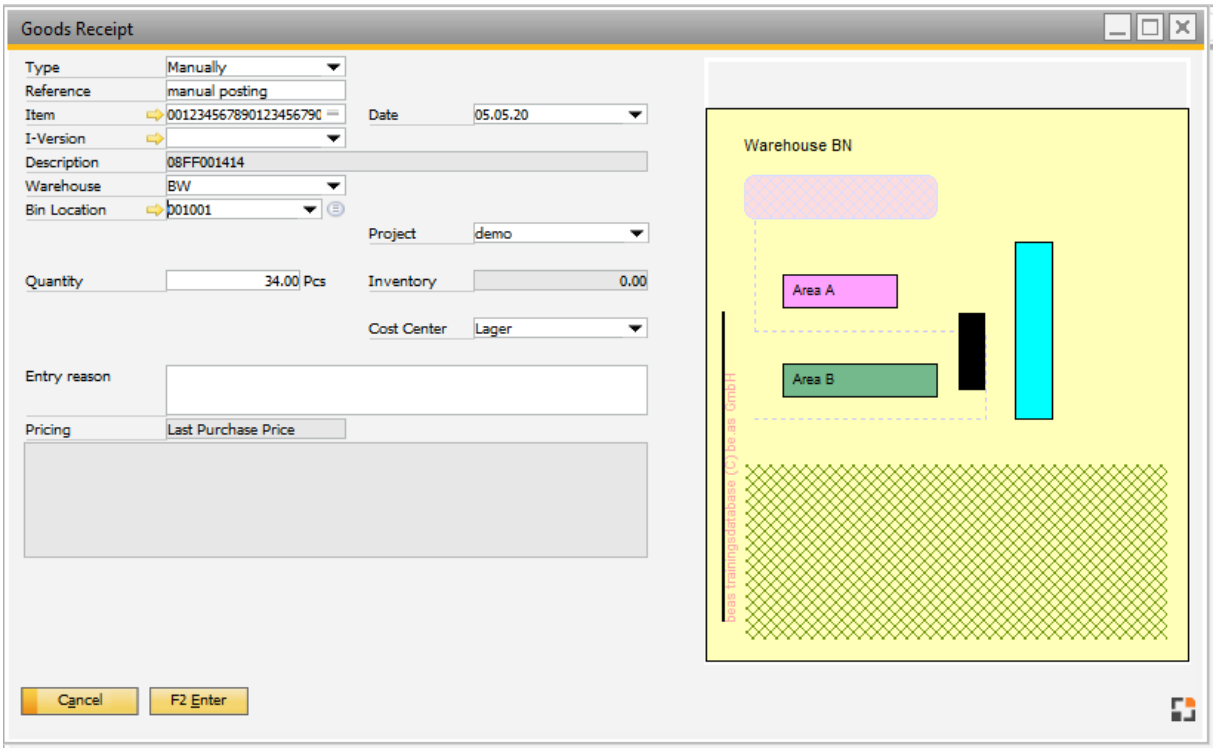
© 2026 Boyum IT Solutions A/S

This app opens the window for manual postings > Goods receipt. The Type is automatically set to "Production" and therefore Reference field appears as a Work order filter.
With manual postings the inventory can be adjusted without a document.
For example, after the stocktaking, part of the stock was not counted, the missed amount can then be manually posted.

The following manual posting options are available:

- Receipt
- Issue
- Transfer

Only one item can be added per manual posting procedure.
The posting is a simplified operation to be used in production and some information is omitted.



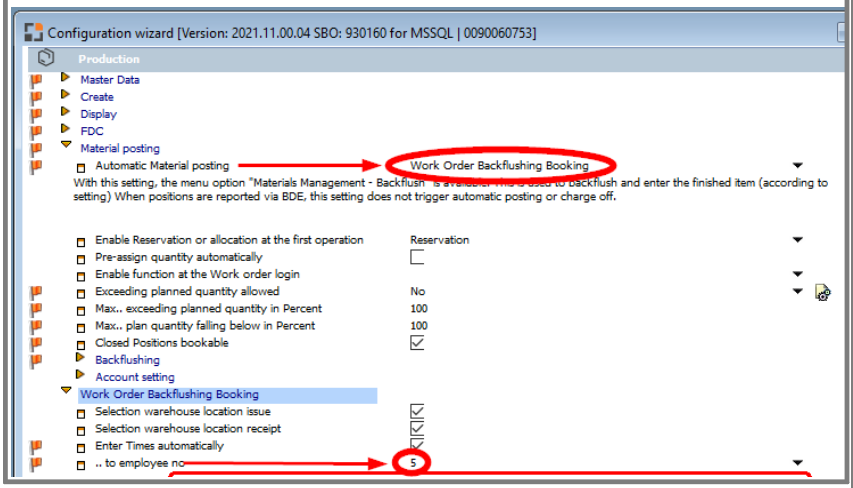
Window mw_manuell_buchen.psr

Posting types

There are different types of postings

Type	Description

© 2026 Boyum IT Solutions A/S

Manual	Used to report a manual posting. This option uses the accounts set in Beas general parameters. These accounts can be different from the correction option.
Production	Assigned to a production order. Entry of the production document and the position or BoM position is necessary. The process: After choosing the position, the item is inserted automatically. The posted quantity is displayed and evaluated in the production structure views. In the Production order field the following can be entered: • work order number • work order position bar code • BoM bar code The entry is processed according to its type. **Production posting type special case** **Receipt - Pricing** With the Type "Production" selected, the Pricing field becomes invisible as then the pricing Production valuation assembly is used. Postcalculation may be running in the background. **Receipt - order time receipt** is created automatically if enabled in Configuration wizard – Production – Work order backflushing – Book times automatically and "...to employee" is defined 
Correction	Used to report adjustment of remaining inventory (evaporation, scrap,

© 2026 Boyum IT Solutions A/S

	and so on). This option uses the accounts set in Beas general parameters.
Inventory	Uses the same accounts as the Manually option, but the inventory adjustment posting type is entered in the comment field in the goods issues document.

Window structure, field description

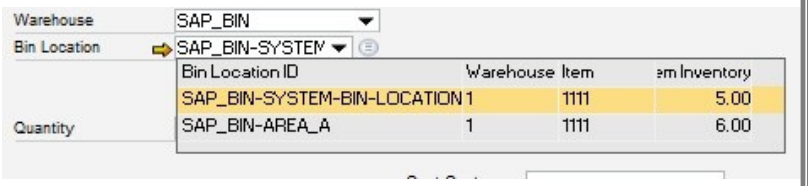
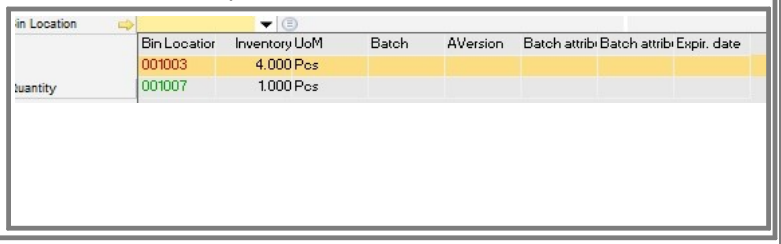
The input window structure changes, depending on the entered information. Related fields become available depending on whether receiving, issuing or transferring takes place, whether a batch or a serial number is entered or whether there are different inventories or Production UoMs. The same applies to bin locations. If the bin location has been created, they are displayed for selection.

Field	Meaning
Work order	Displayed only if Production type was selected. The Work order area has three fields: Document number, line and position. If new is selected from the position drop-down, "-1" is displayed in the field. A new work order position can be entered instead of the -1, the item and quantity can be selected. **1. Field - work order number** The work order can be selected from the drop-down list or scan: a) The work order document number (Data field: beas_fthaupt.belnr_id). b) The work order bar code (9 digits). It is used for posting in the assembly. The second and third field is filled automatically. (Data field: beas_ftpos.barcode) c) The material bar code. Used to post material. (Data field: beas_ftstl.nummer) (BoM - Extended - Bar code) **2. Field - work order line number** Select work order item to be issued or posted (Data field: beas_ftpos.belpos_id). Only items allowed to post are

© 2026 Boyum IT Solutions A/S

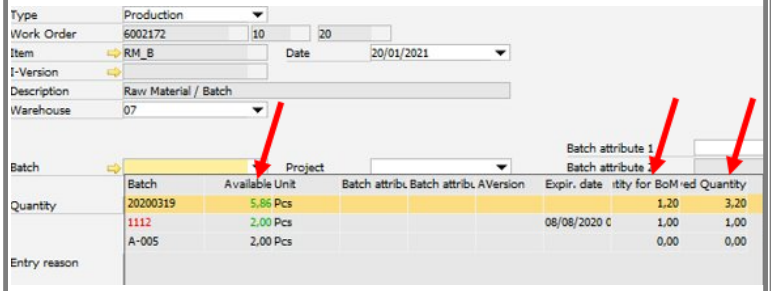
	available (items not closed or blocked) **3. Field - work order position number** Select the BoM item to be posted (Data field: beas_ftstl.pos_id). Only BoM positions that are not closed been closed, with warehouse oriented items are allowed. Special case: 0 or empty = the assembly is posted. -1 = a new BoM item is generated. Blocked BoM positions Blocked BoM positions cannot be selected, but the position number can be manually entered or scanned via barcode. For postings, the respective authorizations are required. Post and create new BoM position It is possible, to issue material and to create a BoM position at the same time, if the position does not exist. Select the work order document and the assembly, and then select "new" in the third field.
Item	Item number. NOTE on WMS-related receipt: **WMS Integration:** If the receipt is made from BEAS in a WMS warehouse, it applies the Quality status defined in **Produmex WMS > Organizational Structure > Production tab**.
I-Version	Item version to be posted. *(beas 9.1 PL: 08)* Note: It is only possible to create a manual receipt of an item version with "Released" status.
Warehouse	Warehouse that item is posted to. ***See*** Warehouse rules. Note: As of Beas Manufacturing 9.3 PL03, Produmex WMS

© 2026 Boyum IT Solutions A/S

	warehouses are supported for Beas transactions.
Bin location	Bin location to be posted to Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components: **Arrow icon** / List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location.  **The selected drop-down option displays the following information in receipt documents:** • Bin Location • Warehouse Area • First item in this bin location • Stock of the first item in this bin location The list can be modified in the Configuration wizard. **The selected drop-down option displays the following information in issue documents:** • All stock information of all bin locations with batch- and serial number information. • Reserved Batch quantities information 

© 2026 Boyum IT Solutions A/S

The drop-down contains information on reserved quantities in 3 columns:



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

Notes: Beas Bin Warehouse

© 2026 Boyum IT Solutions A/S

The Definition of the bin location is mandatory.

Notes: SBO Bin Warehouse

If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
This is entirely managed by SAP Business One.

Drop-down for volume or weight is not supported. Columns are always 0.

beas 9.3 PL 2

Notes: WMS Bin Warehouse

Bin location is mandatory.
Drop-down for volume and weight not supported.

Customizing of the drop-down list in Beas 9.3 PL 2 or newer release

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent setbindropown`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

In the `e_bindropdownbsl` variable, the ODATA command can be defined.
It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bsl>)?$mask=1
```

© 2026 Boyum IT Solutions A/S

```
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

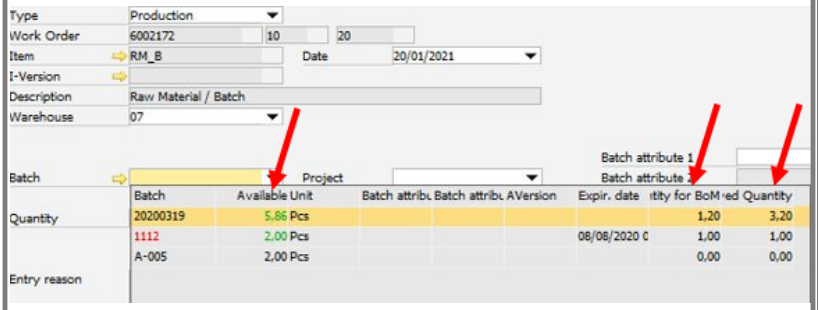
This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

© 2026 Boyum IT Solutions A/S

	The following priorities are considered:
	1. Window-related customization (`windowevent`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:
	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end function`
	
	See Warehouse rules.

LUID	Define LUID number ***See*** LUID behavior settings. WMS Production receipt
Project	Link to an SAP Project code. The default value comes from the project linked to the work order. If continued stock is active in the database,

© 2026 Boyum IT Solutions A/S

	the project code is included in the journal entry.
Batch/Serial	Click the orange arrow to generate a new batch or serial number. After this batch or serial number is firmly assigned and the arrow is hidden. Information on Reserved Batches: The drop-down contains information on reserved quantities in 3 columns:  The batch entry in the list is displayed in RED color if the Batch is not free. **Quantity-related information:** **Field** / **Description** Available: Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail. Reserved for BoM: Reserved Quantity for this BoM Position Reserved Quantity: Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail. Inventory: Stock batch quantity in the bin location. ***See:***

© 2026 Boyum IT Solutions A/S

	Production – Batch administration Materials management – Batch administration
Date	Posting date of the document. The default value is the today variable.
Quantity	The quantity to be issued. **Serial numbers:** For serial numbers only a quantity of 1 can be entered. **Serial number reservation** Posting in a production assembly any quantity can be entered if the serial number determination is set to "automatic" for the respective item and the serial numbers have been reserved. In this case, a window opens where the serial numbers can be selected. ***See:*** Configuration wizard – Production – Serial numbers Concept Serial number reservation Item master – Series tab
Conv-Quantity	⊟ Enter posting quantity in consumption units Only displayed, if the consumption unit does not match the warehouse unit of the item. ***See*** consumption unit The entered quantity is converted to warehouse unit. Length, width and height are indicated. These parameters are considered, using the conversion formula. ***See*** Conversion
Close	⊟ Close WO position Only visible, if a production assembly is posted. Set automatically, as soon as the planned quantity is reached. Manual change is possible. The behavior can be defined in Configuration wizard - Close assembly automatically. If the option is active, the production position is closed after receipt.

© 2026 Boyum IT Solutions A/S

<table>
<tr><td>Cost center</td><td>Select cost center

If no cost center is selected, the default settings apply.

Adaptation
Use the script in workordermanagement.src and materialmanagement.src to extend determining the cost center.

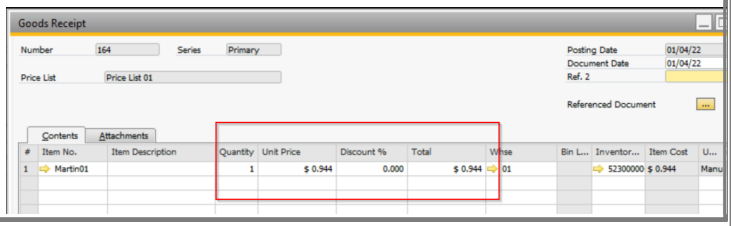
See
Configuration wizard - Production - Material - Account determination
Configuration wizard - Production - Assembly - Account determination
Item - General - Cost center</td></tr>
<tr><td>Entry reason</td><td>Free text to add information.</td></tr>
<tr><td>Pricing</td><td>Shows the method determining the price. Automatically filled.

<table><tr><td>Production Assembly</td><td>Settings apply from Production > Valuation and booking of the assembly > Valuation</td></tr><tr><td>Post in positive BoM item</td><td>Settings apply from Materials management > post in manually > Purchased items pricing booking</td></tr><tr><td>Post in negative BoM item</td><td>Settings apply from Calculation > Precalculation > Pricing negative BoM</td></tr><tr><td>Other posting</td><td>Settings apply from Materials management > Post in manually > Purchased items/In-house production pricing booking</td></tr></table>
SAP Limitation:

SAP Manual receipts: When Beas creates a receipt document, the system calculates the Unit price based on calculating the Total price of the booking.
The difference between the decimals of SAP and Beas can cause mismatch between the values: The "Total" price field</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

may be rounded as the Unit price is defined with a different
number of decimals.



Additional fields are available at transfer:

Field	Description
To	Define the warehouse to transfer to. The To warehouse can only have the same entry as Warehouse if it is a bin location inventoried warehouse. A pure bin location transfer is then possible. Note: A bin location move instead of a SAP Business One - Transaction runs at a bin location transfer. There is no account movement, no calculation of FIFO prices or average prices. The bin location entry is changed. An entry is created in the bin location-movement protocol.
Bin Location	Define the bin location to transfer to. For further information, ***see*** from bin location.

Functions and Buttons

Button	Description
Cancel	Cancel the process.
Batch list (F3)	Inventory list by batches This button is only visible if a batch related item is selected.
Book (F2)	Start the booking process.

Events

© 2026 Boyum IT Solutions A/S

Every posting process creates several events, which can be set as default or customized (***see*** customizing).
Posting finished products (assigned to a work order), calls the assignment program which controls closing, pricing, and batch administration. An external materials management system can also be connected and used in parallel.

- Account settings

Accounts that are used, depend on the posting type. If a posting is performed with reference to a work order, generally the WIP account of the work order is used. In other cases the default account of SAP Business One is used. Account settings can be changed in the Configuration Wizard.

See:
Materials management - manual postings
Production – posting
Production – Account determination

- Pricing

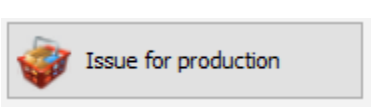
Pricing depends on the posting type. If an assembly is posted in for a work order, pricing is performed as set up in the work order, if there was nothing set up, the settings in **Configuration wizard > Materials management** apply.

See:
Materials management - Pricing
Production Valuation of assembly

- Batches and Serial numbers

See
Configuration wizard – Batch administration
Configuration wizard – Serial numbers

17.3.2.5 Issue for Production



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.
See Terminal settings in Configuration wizard.

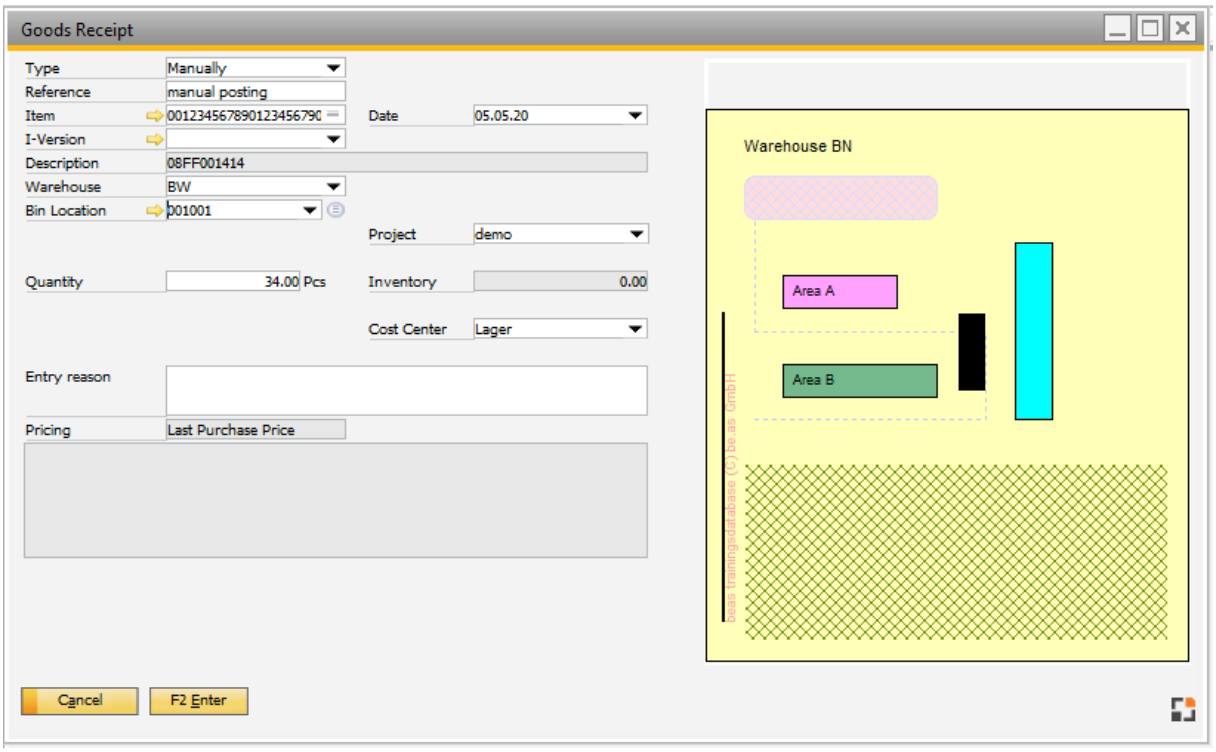
© 2026 Boyum IT Solutions A/S

This app opens the window for manual postings. The Type is automatically set to "Production" and therefore Reference field appears as a Work order filter.
With manual postings the inventory can be adjusted without a document.
For example, after the stocktaking, part of the stock was not counted, the missed amount can then be manually posted.

The following manual posting options are available:

- Receipt
- Issue
- Transfer

Only one item can be added per manual posting procedure.
The posting is a simplified operation to be used in production and some information is omitted.



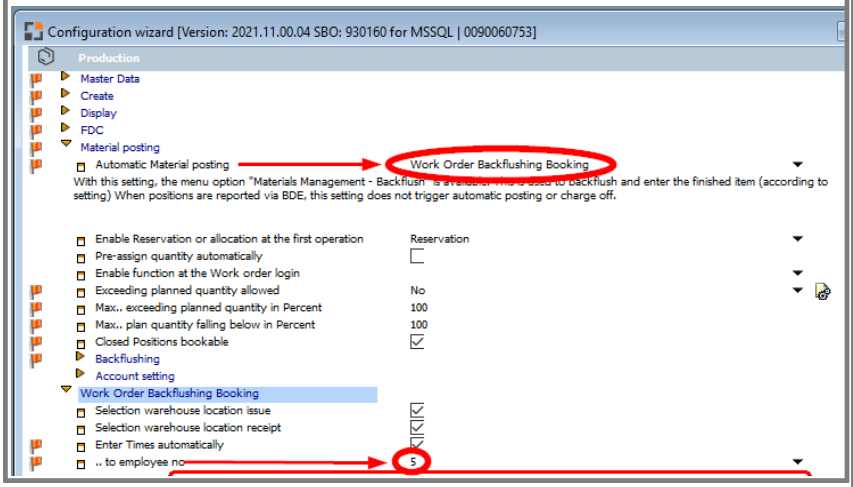
Window mw_manuell_buchen.psr

Posting types

There are different types of postings

Type	Description
Manual	Used to report a manual posting. This option uses the accounts set in

© 2026 Boyum IT Solutions A/S

	Beas general parameters. These accounts can be different from the correction option.
Production	Assigned to a production order. Entry of the production document and the position or BoM position is necessary. The process: After choosing the position, the item is inserted automatically. The posted quantity is displayed and evaluated in the production structure views. In the Production order field the following can be entered: • work order number • work order position bar code • BoM bar code The entry is processed according to its type. **Production posting type special case** **Receipt - Pricing** With the Type "Production" selected, the Pricing field becomes invisible as then the pricing Production valuation assembly is used. Postcalculation may be running in the background. **Receipt - order time receipt** is created automatically if enabled in Configuration wizard – Production – Work order backflushing – Book times automatically and "...to employee" is defined 
Correction	Used to report adjustment of remaining inventory (evaporation, scrap, and so on). This option uses the accounts set in Beas general

© 2026 Boyum IT Solutions A/S

	parameters.
Inventory	Uses the same accounts as the Manually option, but the inventory adjustment posting type is entered in the comment field in the goods issues document.

Window structure, field description

The input window structure changes, depending on the entered information. Related fields become available depending on whether receiving, issuing or transferring takes place, whether a batch or a serial number is entered or whether there are different inventories or Production UoMs. The same applies to bin locations. If the bin location has been created, they are displayed for selection.

Field	Meaning
Work order	Displayed only if Production type was selected. The Work order area has three fields: Document number, line and position. If new is selected from the position drop-down, "-1" is displayed in the field. A new work order position can be entered instead of the -1, the item and quantity can be selected. **1. Field - work order number** The work order can be selected from the drop-down list or scan: a) The work order document number (Data field: beas_fthaupt.belnr_id). b) The work order bar code (9 digits). It is used for posting in the assembly. The second and third field is filled automatically. (Data field: beas_ftpos.barcode) c) The material bar code. Used to post material. (Data field: beas_ftstl.nummer) (BoM - Extended - Bar code) **2. Field - work order line number** Select work order item to be issued or posted (Data field: beas_ftpos.belpos_id). Only items allowed to post are available (items not closed or blocked)

© 2026 Boyum IT Solutions A/S

	3. Field - work order position number Select the BoM item to be posted (Data field: beas_ftstl.pos_id). Only BoM positions that are not closed been closed, with warehouse oriented items are allowed. Special case: 0 or empty = the assembly is posted. -1 = a new BoM item is generated. Blocked BoM positions Blocked BoM positions cannot be selected, but the position number can be manually entered or scanned via barcode. For postings, the respective authorizations are required. Post and create new BoM position It is possible, to issue material and to create a BoM position at the same time, if the position does not exist. Select the work order document and the assembly, and then select "new" in the third field.
Item	Item number. NOTE on WMS-related receipt: **WMS Integration:** If the receipt is made from BEAS in a WMS warehouse, it applies the Quality status defined in **Produmex WMS > Organizational Structure > Production tab**.
I-Version	Item version to be posted. *(beas 9.1 PL: 08)* Note: It is only possible to create a manual receipt of an item version with "Released" status.
Warehouse	Warehouse that item is posted to. ***See*** Warehouse rules. Note: As of Beas Manufacturing 9.3 PL03, Produmex WMS warehouses are supported for Beas transactions.

© 2026 Boyum IT Solutions A/S

Bin location	Bin location to be posted to

Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3)

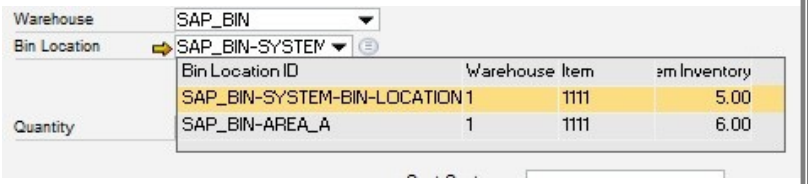
The field has the following components:

Arrow icon /

List of all bins where the item is located.

Selection (Drop-down)

A list opens to select the desired bin location.



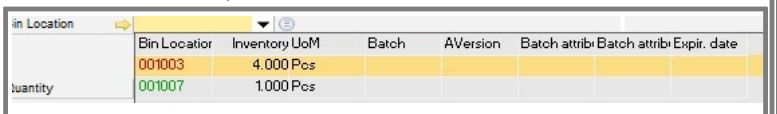
The selected drop-down option displays the following information in receipt documents:

- Bin Location
- Warehouse Area
- First item in this bin location
- Stock of the first item in this bin location

The list can be modified in the Configuration wizard.

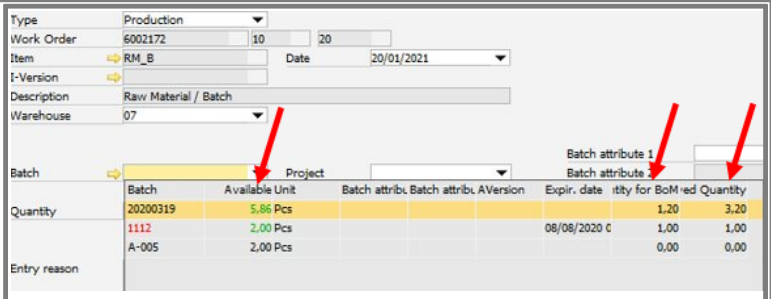
The selected drop-down option displays the following information in issue documents:

- All stock information of all bin locations with batch- and serial number information.
- Reserved Batch quantities information



The drop-down contains information on reserved quantities in 3 columns:

© 2026 Boyum IT Solutions A/S



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

Notes: Beas Bin Warehouse

The Definition of the bin location is mandatory.

© 2026 Boyum IT Solutions A/S

Notes: SBO Bin Warehouse

If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
This is entirely managed by SAP Business One.

Drop-down for volume or weight is not supported. Columns are always 0.

beas 9.3 PL 2

Notes: WMS Bin Warehouse

Bin location is mandatory.
Drop-down for volume and weight not supported.

Customizing of the drop-down list in Beas 9.3 PL 2 or newer release

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent setbindropown`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

In the `e_bindropdownbsl` variable, the ODATA command can be defined.
It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bsl>)?$mask=1
end function
```

© 2026 Boyum IT Solutions A/S

```
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

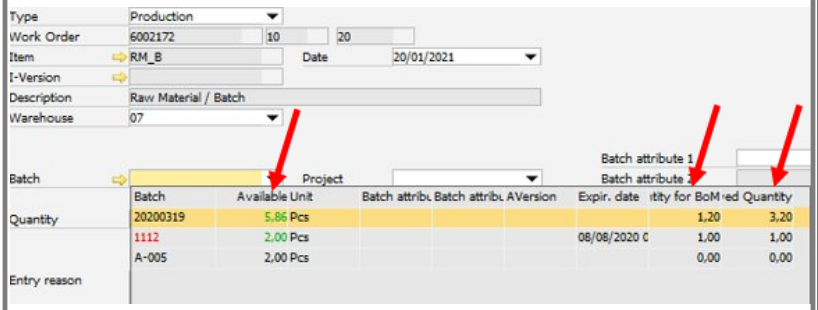
1. Window-related customization (`windowevent`)

© 2026 Boyum IT Solutions A/S

	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:
	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end function`
	
	See Warehouse rules.

LUID	Define LUID number ***See*** LUID behavior settings. WMS Production receipt
Project	Link to an SAP Project code. The default value comes from the project linked to the work order. If continued stock is active in the database, the project code is included in the journal entry.

© 2026 Boyum IT Solutions A/S

Batch/Serial	Click the orange arrow to generate a new batch or serial number. After this batch or serial number is firmly assigned and the arrow is hidden. Information on Reserved Batches: The drop-down contains information on reserved quantities in 3 columns:  The batch entry in the list is displayed in RED color if the Batch is not free. **Quantity-related information:** **Field** / **Description** Available: Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail. Reserved for BoM: Reserved Quantity for this BoM Position Reserved Quantity: Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail. Inventory: Stock batch quantity in the bin location. ***See:*** Production – Batch administration

© 2026 Boyum IT Solutions A/S

	Materials management – Batch administration
Date	Posting date of the document. The default value is the today variable.
Quantity	The quantity to be issued. **Serial numbers:** For serial numbers only a quantity of 1 can be entered. **Serial number reservation** Posting in a production assembly any quantity can be entered if the serial number determination is set to "automatic" for the respective item and the serial numbers have been reserved. In this case, a window opens where the serial numbers can be selected. ***See:*** Configuration wizard – Production – Serial numbers Concept Serial number reservation Item master – Series tab
Conv-Quantity	☐ Enter posting quantity in consumption units Only displayed, if the consumption unit does not match the warehouse unit of the item. ***See*** consumption unit The entered quantity is converted to warehouse unit. Length, width and height are indicated. These parameters are considered, using the conversion formula. ***See*** Conversion
Close	☐ Close WO position Only visible, if a production assembly is posted. Set automatically, as soon as the planned quantity is reached. Manual change is possible. The behavior can be defined in Configuration wizard - Close assembly automatically. If the option is active, the production position is closed after receipt.
Cost center	☐ Select cost center

© 2026 Boyum IT Solutions A/S

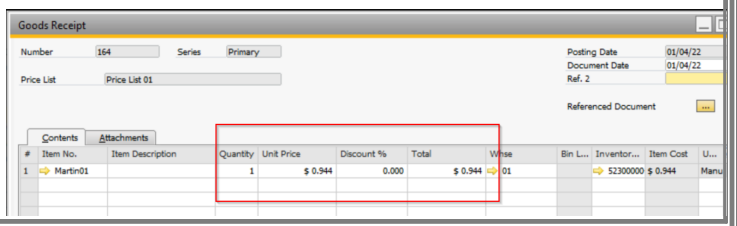
<table>
<tr><td></td><td>If no cost center is selected, the default settings apply.

Adaptation
Use the script in workordermanagement.src and materialmanagement.src to extend determining the cost center.

See
Configuration wizard - Production - Material - Account determination
Configuration wizard - Production - Assembly - Account determination
Item - General - Cost center</td></tr>
<tr><td>Entry reason</td><td>Free text to add information.</td></tr>
<tr><td>Pricing</td><td>Shows the method determining the price. Automatically filled.
<table>
<tr><td>Production Assembly</td><td>Settings apply from Production > Valuation and booking of the assembly > Valuation</td></tr>
<tr><td>Post in positive BoM item</td><td>Settings apply from Materials management > post in manually > Purchased items pricing booking</td></tr>
<tr><td>Post in negative BoM item</td><td>Settings apply from Calculation > Precalculation > Pricing negative BoM</td></tr>
<tr><td>Other posting</td><td>Settings apply from Materials management > Post in manually > Purchased items/In-house production pricing booking</td></tr>
</table>
SAP Limitation:
SAP Manual receipts: When Beas creates a receipt document, the system calculates the Unit price based on calculating the Total price of the booking.
The difference between the decimals of SAP and Beas can cause mismatch between the values: The "Total" price field may be rounded as the Unit price is defined with a</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

different
number of decimals.



Additional fields are available at transfer:

Field	Description
To	Define the warehouse to transfer to. The To warehouse can only have the same entry as Warehouse if it is a bin location inventoried warehouse. A pure bin location transfer is then possible. Note: A bin location move instead of a SAP Business One - Transaction runs at a bin location transfer. There is no account movement, no calculation of FIFO prices or average prices. The bin location entry is changed. An entry is created in the bin location-movement protocol.
Bin Location	Define the bin location to transfer to. For further information, ***see*** from bin location.

Functions and Buttons

Button	Description
Cancel	Cancel the process.
Batch list (F3)	Inventory list by batches This button is only visible if a batch related item is selected.
Book (F2)	Start the booking process.

Events

© 2026 Boyum IT Solutions A/S

Every posting process creates several events, which can be set as default or customized (***see*** customizing).
Posting finished products (assigned to a work order), calls the assignment program which controls closing, pricing, and batch administration. An external materials management system can also be connected and used in parallel.

- Account settings

Accounts that are used, depend on the posting type. If a posting is performed with reference to a work order, generally the WIP account of the work order is used. In other cases the default account of SAP Business One is used. Account settings can be changed in the Configuration Wizard.

See:
Materials management - manual postings
Production – posting
Production – Account determination

- Pricing

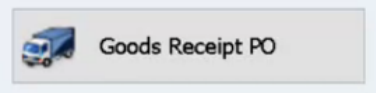
Pricing depends on the posting type. If an assembly is posted in for a work order, pricing is performed as set up in the work order, if there was nothing set up, the settings in **Configuration wizard > Materials management** apply.

See:
Materials management - Pricing
Production Valuation of assembly

- Batches and Serial numbers

See
Configuration wizard – Batch administration
Configuration wizard – Serial numbers

17.3.2.6 Goods receipt PO



Available with Goods Receipt for Purchase Orders, Labels, Stock Information license.
See Terminal settings in Configuration wizard.

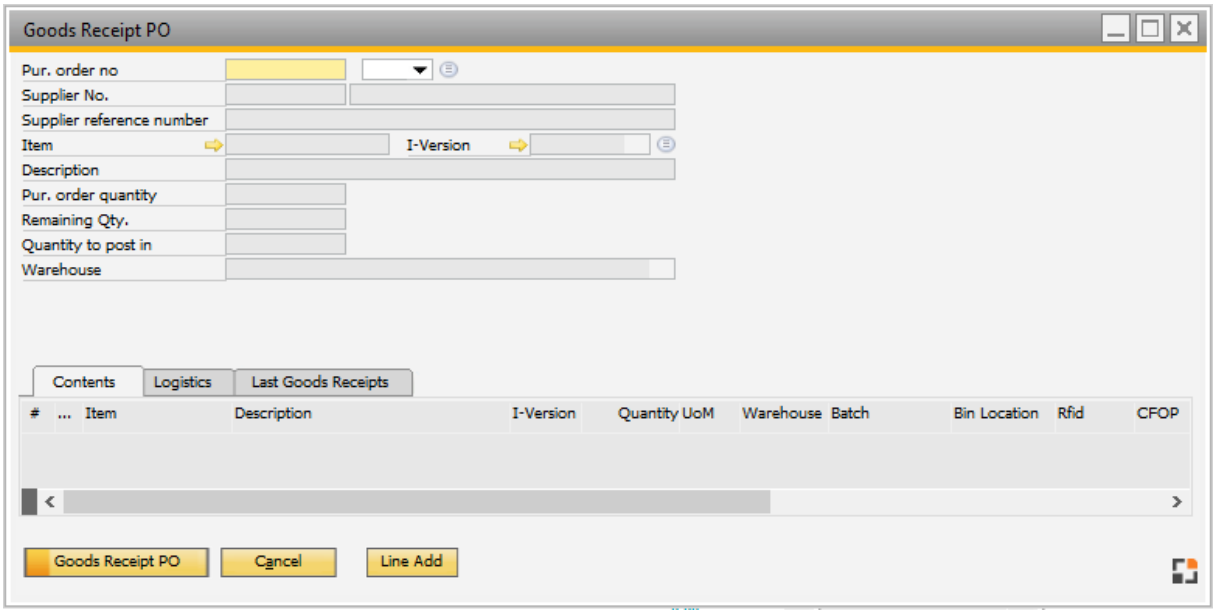
With this app you can create a single goods receipt for quantities based on a purchase order.

© 2026 Boyum IT Solutions A/S

Goods receipt is a replacement function for SAP Business One – **Purchase > Good receipt PO**.

This function is ideal to be employed directly at the goods receipt location and supports, apart from supplied parts lists, optimal batch support and serial numbers support, quality control, label printing and some other important functions. Goods receipt creates a regular goods receipt delivery note in SAP Business One.

Multiple Goods Receipt purchase window (default)



Window mw_goodsreceiptpo_edit.psr

Special Functions:

- Several purchase order rows can be posted in with one goods receipt document
- Posting in several batches, only one goods receipt row is created.
- Summary of different purchase orders is not possible
- All good receipts which has been created on this station via this window are displayed in tab "previous good receipts". Own good receipt function created via SAP B1 or good receipts, which has been created on other stations, are not be displayed here.
- Support Beas, SAP and WMS Bin Management

Single Variant

There are two functions: You can set up the one to be used in **Configuration wizard > Materials management > Goods receipt > Goods receipt type.**

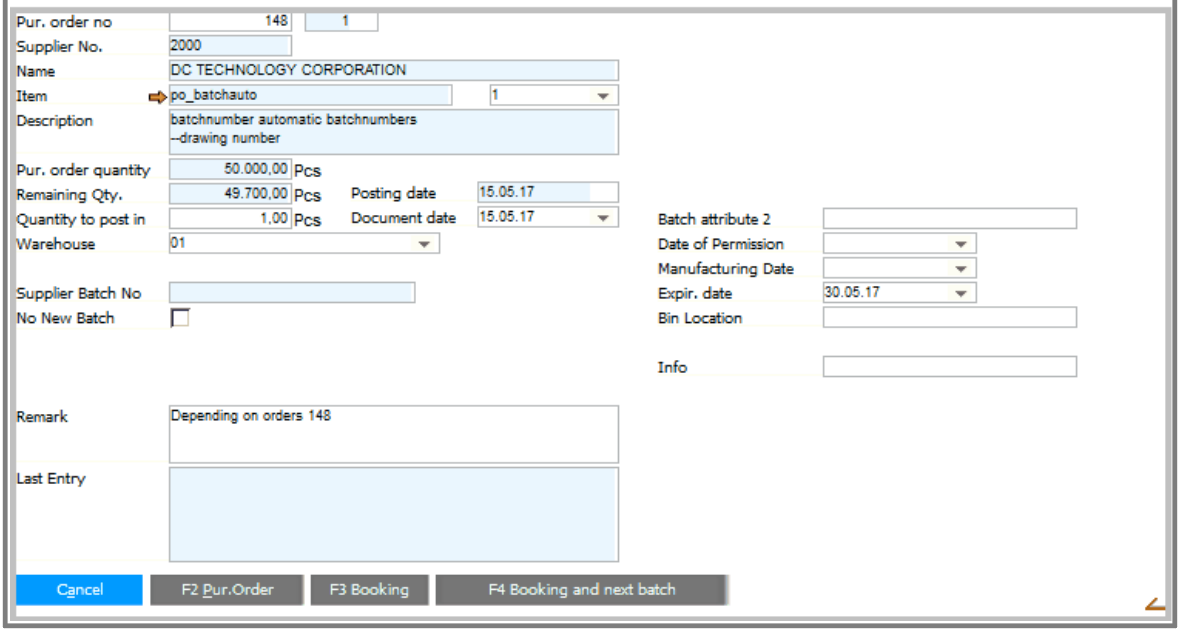
Attention:

© 2026 Boyum IT Solutions A/S

Do not use this Variant. This window is in maintenance and this will not be supported in the future.

This is still available only for reasons of compatibility and will be replaced by the "Multiple".

- Per purchase order row one goods receipt is created.
- For each batch a goods receipt is created.
- Several serial numbers can be posted in with one goods receipt.
- **SAP functionalities newer than SAP 9.0 are NOT supported.**



Field description

Apart from the order information, additional fields are shown – depending on the item type.
Window settings are available

Note: Localization in this window is not supported.

Field	Meaning
Purchase order number	Select from open purchase orders or purchase requests (switch on the right to open the window open purchases) You can insert the number manually or you can choose this from a list. If you insert the number manually, you can insert only a Purchase order, not Pre-Invoice or Quotation number.

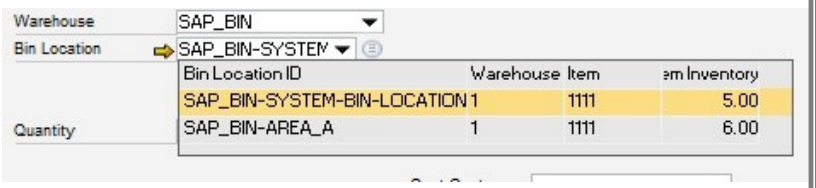
© 2026 Boyum IT Solutions A/S

Field	Meaning
	If a Document number exists more than once, Beas uses the last document.
Supplier number	Supplier number
Supplier reference number (only for GO type multiple)	Free text
Name	Supplier name
Item	Item
Item description	Item description
Pur. order quantity	Purchases quantity
Remaining quantity	Remaining quantity
Quantity to post in	Quantity to be posted in now. **Warning:** All quantities are shown in the purchasing UoM. The number of decimal places depends on Master data – Units of measure. If per line serial numbers are entered, this field displays the current total quantity according to the sum of all quantities from entries below. Notes on serial numbers: In item master series tab you can set up whether serial numbers are generated automatically or not. Serial numbers are generated manually. If serial numbers are entered per line, these fields show the current total quantity. Automatically generated serial numbers.

© 2026 Boyum IT Solutions A/S

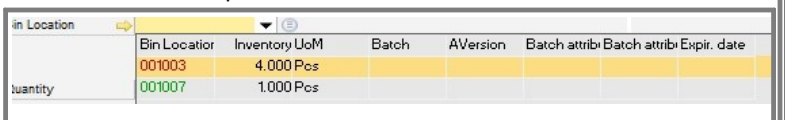
Field	Meaning
	The quantity can be specified. Serial numbers are generated only at the moment of goods receipt. Number generation is set up in Configuration wizard – Materials management - Goods receipt – Serial numbers.
Date of entry (Only type "single")	The date for the entry. It is normally the current day. Depending on the settings (goods receipt type simple or multiple) this field is to be found under logistics tab.
Reference date	Corresponds to Tax date in SAP document.
Warehouse	Target warehouse Warehouse stored in purchase order. Representing the primary inventory. Depending on the setting, the quality control warehouse is set up automatically. If a goods receipt warehouse is defined, depending on the rules the associated goods receipt warehouse is entered. Limitations: - SAP Bin Warehouse supported. But it is not possible to make a receipt on different Serial- or Batch Numbers with the same base document line. - Beas Warehouses: The same base line purchase document cannot be received in 2 different bin locations. - WMS bin warehouses are supported, but the same base line purchase document cannot be received in 2 different bin locations. - WMS Warehouses: System creates separate lines for each entry, which means that only 1 entry can be assigned for each base line. ***See***: Configuration wizard – Quality control – Goods receipt

© 2026 Boyum IT Solutions A/S

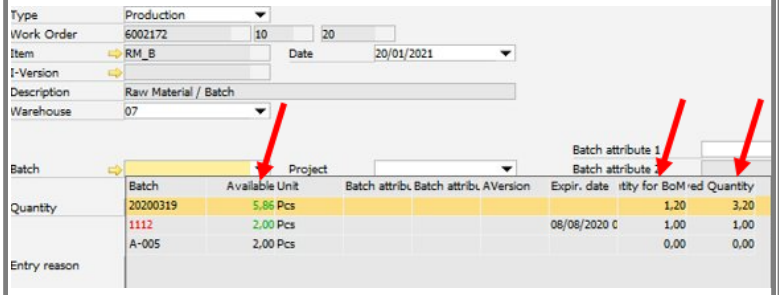
Field	Meaning
	Edit warehouse master data
Bin location	Determines to which bin location the goods are posted at receipt. Supported: Beas and SAP Bin Management ***See*** Receipt on bin location Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components: **Arrow icon** / List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location.  **The selected drop-down option displays the following information in receipt documents:** • Bin Location • Warehouse Area • First item in this bin location • Stock of the first item in this bin location The list can be modified in the Configuration wizard. **The selected drop-down option displays the following information in issue documents:** • All stock information of all bin locations with batch- and serial number information.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	• ⊟ Reserved Batch quantities information



The drop-down contains information on reserved quantities in 3 columns:



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	Select or List - Icon By using the selection icon, an adjustable selection list opens. Window settings and templates are supported. Notes: Beas Bin Warehouse The Definition of the bin location is mandatory. Notes: SBO Bin Warehouse If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type. This is entirely managed by SAP Business One. Drop-down for volume or weight is not supported. Columns are always 0. *beas 9.3 PL 2* Notes: WMS Bin Warehouse Bin location is mandatory. Drop-down for volume and weight not supported. Customizing of the drop-down list in Beas 9.3 PL 2 or newer release This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`. The following priorities are considered: 1. Window-related customization (`windowevent setbindropown`) 2. General changes (`stockmanagement.src`) 3. Settings in the Configuration wizard In the `e_bindropdownbsl` variable, the ODATA command can be defined. It is beneficial to use the Beas service layer, because Beas

© 2026 Boyum IT Solutions A/S

Field	Meaning

supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$mask=1
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in

© 2026 Boyum IT Solutions A/S

Field	Meaning

	maintenance.
	
	This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.
	
	The following priorities are considered:
	1. Window-related customization (`windowevent`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:
	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end function`

© 2026 Boyum IT Solutions A/S

Field	Meaning
	LIMITATION: The receipt process linked with a purchase order is not able to create receipt for the same line into 2 different bin locations at the same time. As a workaround for this, the user can generate the receipt document in 2 steps or receipt full quantity in one bin location and move the required quantity to a different location after the receipt is created.
Expiry date	Only possible for batch or serial number items. Determines the expiration or end of warranty date. This date is calculated automatically. Setup in Item master > batch tab or Serial number tab
Supplier Batch No	Only possible for batch or serial number items. A supplier batch number can be specified here. At batch: Entered in the field Supplier batch of the batch. If the field "No new batch" is active, the batch entered here is also used as internal batch number. For serial number: Next to the serial number, the batch is entered in the field "Batch".
Serial number	Different depending on selected "Type "in Configuration wizard. ⊞ Goods receipt type single There are three options: 1. Automatic generation If there is no entry, the numbers are generated automatically. Automatic number generation is set up in Configuration > Materials Management. 2. Manual entry The numbers can be separated with commas, e.g. 10004,100023,100Z3 etc. 3. Manual determination of the automatic generation A template is defined which determines the structure of the serial numbers. *The counter is enclosed by { and } . Example of piece count 3: {0010} results in 0010, 0011, 0012 A5-3{002}X results in A5-3002X,A5-3003X,A5-3004X

© 2026 Boyum IT Solutions A/S

Field	Meaning
	Goods receipt type multiple **1. Automatic generation** No serial number can be entered. Quantities > 1 not possible. Serial numbers are generated with the document. **2. manual determination** Serial numbers are entered or scanned and confirmed with TAB/ENTER. Jump to next entry. Quick entry If a lot of serial numbers are to be entered, numbers can be added one by one: after one click the next serial number is added as a new line. Using bar code scanners, the scanner can be configured for adding a key after each read. Then, the user only needs to read all bar codes – no more action is necessary. After the reading has been finished, click on the "**goods receipt**" button to create the document. This function is only allowed with the following parameters: poincomingtyp set to "M". It works with manual serial items only, because for automatic serial items the window does not show a message with the complete serial number information.
Batch	Entry of the batch This field is only visible if "Manual batch entry" or "Batch according to material" has been set in the Batch tab of the item master. The batch number for the item to be posted can be defined here. The quantity and the batch are indicated on "Add row" and then the next batch is captured if multiple batches are posted.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	Capture of more batch attributes 1. Right-click on the list. 2. Select Window settings. 3. Fields "Batch attribute 1" as well as all other fields, which are required are set to "Visible" and "Changeable" . 4. These fields can now be edited directly in the list.
No new batch (Only type "single")	Only for batch items. No automatic generation of the batch number takes place if this is activated. Instead, the batch number entered in delivery batch No. is used. Otherwise the next number is automatically generated. For more on the batch number ***see*** Batch Management.
CFOP	CFOP Tax code Affects only Brazilian localization. The field is displayed only if a code was stored (table OCFP).
Remarks	Input field for remarks.
Last entry	Last posting entry.
UDF 1–15	User-defined fields Note: The information entered in these fields is saved in the table "BEAS_PLANDOCUMENT_LINE", but not in any other UDFs in Beas. Modification is available by customization.

Only displayed for Goods receipt type "multiple"

Lower tabs

Content: Previously entered items which are to be posted in with the same document.

Archive: Previous goods receipts created on this work station.

Logistics:

Field	Meaning
Posting date	The date for the entry. It is normally the current day.
Document date	Creation date of the selected document.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Remark	Free text.
Label	Only for compatibility reasons. Can be used for own Macros.

In the lower list items selected for posting are displayed. With a click on the deletion icon they can be removed. Click the goods receipt button to perform the posting.

Functions

Function	Meaning
Line Add	To post in a second item. Previously entered values are displayed below, the upper fields are emptied for new entries. If for a document row more than one inflow was added (e.g. a second batch) the second entry is locked and the selected stock of the first row is used, because for a goods receipt only one warehouse may be selected per document line.
Goods receipt PO	Execute the posting.
Cancel	Close window without saving changes.
Post and new batch	Only for Goods receipt Type "single" and batch-managed items. If an item was entered after posting, the screen not reset. You can easily record the next batch for the same order.

Process

1. Select the order with F2.
2. Enter posting quantity.
3. Execute the order by pressing F3.

(Note: In SAP Business One-environment F-keys cannot be used. These are available only when Beas is started outside SAP Business One)

If a provision parts list exists, it is queried afterwards.

See Provision parts.

Quality control

If a quality control order is stored in the item, it is created immediately after completing the goods

© 2026 Boyum IT Solutions A/S

receipt. Depending on the settings in Configuration wizard - Quality control - Goods receipt the quality control order is opened immediately.

Automated document printing

Right-click menu > Layout

Field	Meaning
Preview	Via preview the last printed document can be viewed and printed.
Layout	Opens the Macro window. If in this window a Macro named "default" is stored, it is printed automatically after the goods receipt has been finished. Usually, API "B1DocumentGenerate" is used to access the table "beas_document_header/beas_document_line". If you do not want to use this API, read the internal document number from variable "e_docentry".

Additional Macro parameters for document printing

e_cardcode	Business partner
e_docentry	Internal goods receipt document number (docentry)
e_itemcode	Item number
e_batchnum	Generated batch number
e_whscode	Warehouse
e_quantity	Quantity
e_remark	Note
e_qcorder	Quality control order

Manual document printing

For document printing a corresponding document must be deposited in the Macro settings. The name can be freely assigned.

After creating the goods receipt document, via preview or print icon the last created document can be printed.

Extended fields in purchase

The following fields are filled in SAP Business One – delivery note

© 2026 Boyum IT Solutions A/S

Field	Description
Personnel	Personnel number (currently logged on in Terminal, WEB Apps or linked Personnel-SAP-User
Beas Version	Beas Versions used for the posting
Origin	Origin type. For goods receipt via beas always "B"

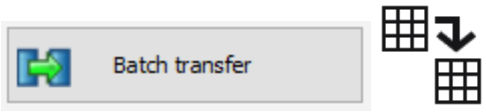
See

Provision parts

Configuration wizard - Quality control - Goods receipt

Configuration wizard - Materials management - Goods receipt

17.3.2.7 Batch transfer



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.

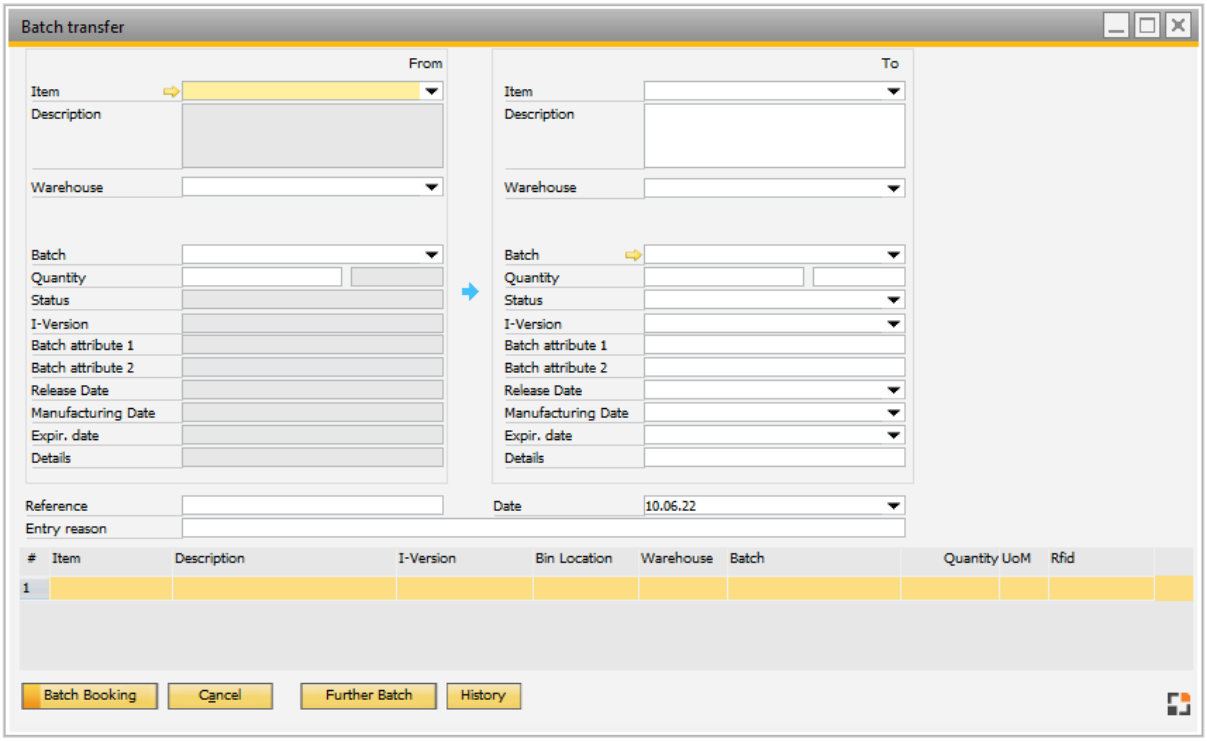
See Terminal settings in Configuration wizard.

With this app you can register a batch transfer from one warehouse to another.
This module offers the following possibilities:

- Transfer batches or a part of a batch to an existing or a new batch.
- Mix several batches into one.
- Combine several batches of different items with another item or batch.

PATH: Inventory > Inventory transactions > Batch transfer.

© 2026 Boyum IT Solutions A/S



Window mw_batchnum_transfer.psr

Items with different batches and different quantities from same warehouse can be summarized to new batches. The total quantity is proposed by the program and can be changed later. The active batch, marked for editing, is highlighted.

A table with two columns is displayed, the batch is transferred from left to right. See image above and field descriptions below.

Behavior is defined in the Configuration wizard – Batch transfer.

	from	to
Field	**Description**	**Description**
Item From/To	Select item from whose batch to transfer to an existing or new batch.	Choose item to which the batch selected in the "From" field should be transferred.
Description	Description of the item.	Description of the item.
Warehouse	Select source warehouse of the batch to transfer.	Add target warehouse of the batch to transfer.
Bin Location	Select source bin location of the batch to transfer. SAP, Beas and WMS Bin Manage	Add target bin location of the batch to transfer. SAP, Beas and WMS Bin Manage supported

© 2026 Boyum IT Solutions A/S

Field	Description	Description
	supported *(beas 2020.02)* Here you choose the Bin location and Batch number. In Bin managed warehouses you can't choose Batch number in Batch number field	*(beas 2020.02)*
Batch	Number of original batch Only selectable, if not Bin managed warehouse	Number of new batch A new batch will be created by single-clicking the yellow arrow. Up until *beas 9.2*: The batch according to the goods receipt definition is used in all cases. From *beas 9.2*: The behavior can be defined in the Configuration wizard.
Quantity	Quantity of current Batch, which you want to transfer to new batch number on right side	Quantity of new Batch
Status	Status of Batch	New Batch status. Define the Status of this Batch after the transaction. Only editable if you create a new Batch. For existing Batches it is not possible to define new status in this window. **Attention:** The system does not check any rules. You can release the Batch without any quality control, and you can transfer a locked batch to a released batch.
Batch attribute 1+2 I-Version Release date Details Manufacturing Date	Batch number information. Only for information. Not changeable	Various, Batch number-related pieces of information. Only editable if you create a new batch number

© 2026 Boyum IT Solutions A/S

Field	Description	Description
Expir. date		
Reference Date Entry reason	Reference information, Post date and Notes for transfer (issue/receipt) document	

Functions

Function	Description
Batch booking	Click Batch booking to issue the total amount of the batches to be split and to post in the batches to be created (in the background an issue and a receipt document are generated.
Further batch	Insert the next batch into the line.
History	Open the History log window.

- Pricing

The batch on the right side receives the total price of all batches selected on the left side.
Use Perpetual Inventory active: The price which is stored in the journal of the charge-off document is used here.
Use Perpetual Inventory disabled: The total price which is stored in the charge-off document is used here.

Example:
left side (Issue document): Batch 1: `1x3€ + Batch 2: 2*4€ = total 11€`
right side (Receipt document): The new Batch is posted in with `11€`

Additionally, a booking reason and reference to this process can be entered.
Batch control: original and target batch may not be equal.
A pure bin to bin transfer is not possible if there is an assignment to a sales order or if the batch is reserved. After editing by pressing "post batches" the batch is transferred. The button "History" shows all previously performed transfers, and a separate document is created for each batch.

Note:
Batch transfer creates 2 documents: Issue and Receipt.
In the issue document created by the Batch transfer you can see the *Info price.*, which is not the

© 2026 Boyum IT Solutions A/S

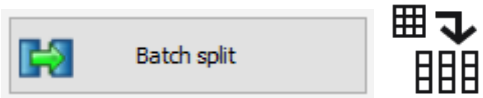
same as *Stock price*.
You can see the correct price in the column "item cost"
Example:
Info price is 1715€ and Item Cost is 863,41€
For the Receipt document Beas is using the Item cost price, because this is the price, which you can see in the journal entry.

Batch Transfer Pricing

Rounding problem:
If the price only saved with 2 decimal places (SAP Definition - count of decimal places for prices) and you work with high quantity, then this can produce a rounding problem and different prices between Issue and Receipt
Workaround: increase count of decimal places for prices.

See Batch transfer.

17.3.2.8 Batch Split



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.
See Terminal settings in Configuration wizard.

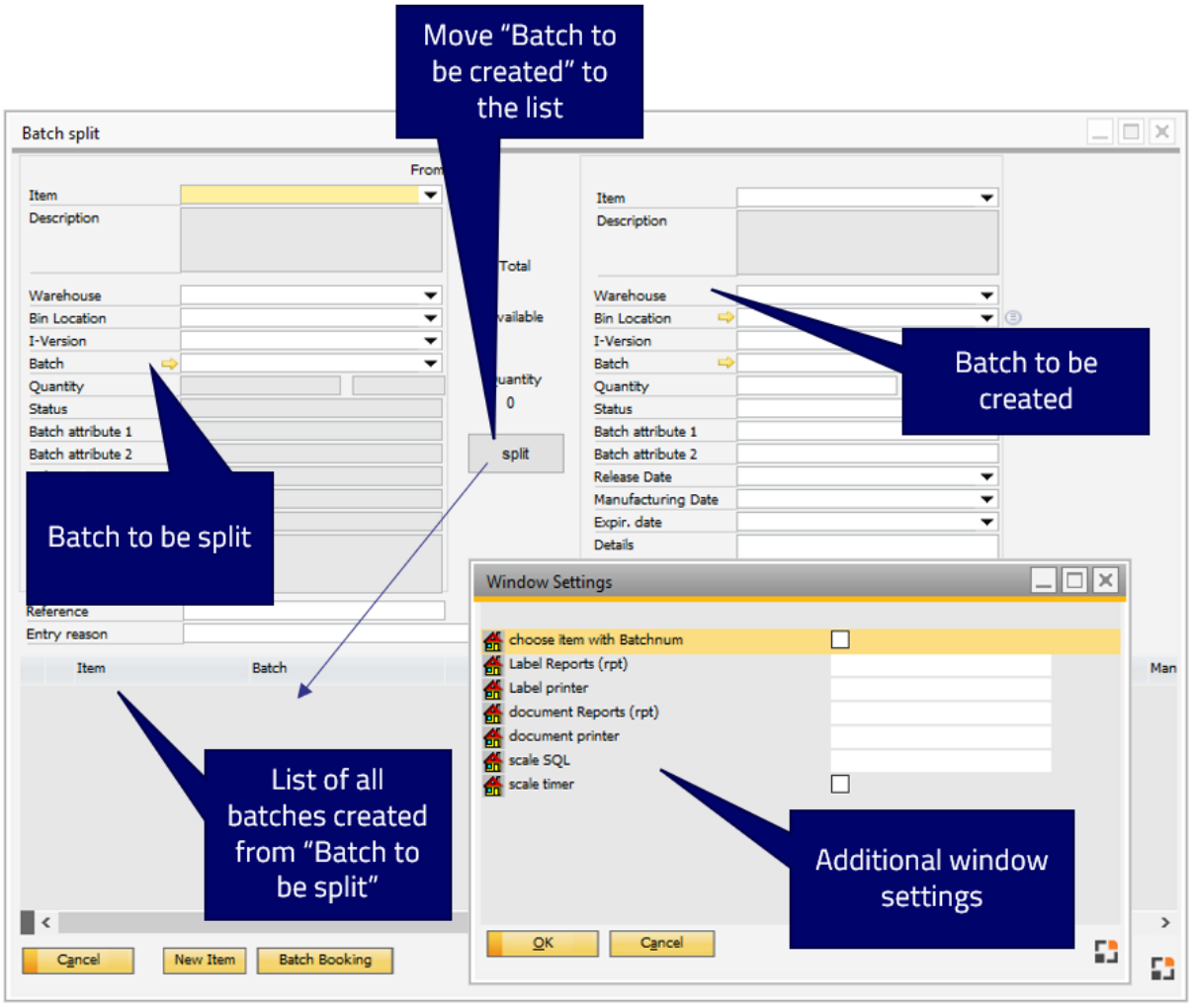
This app is the terminal solution for the identical function integrated in SAP B1.
In this window an item batch can be divided into several item batches. In this case, neither the item number nor the batch lot number needs to match. The quantities of source and target batch may differ, only the current stock is considered as limit.

PATH: Inventory > Inventory transactions > Batch split.

The window is divided into three areas:

Area	Description
Top left	Batch to be split.
Top	Batch to be created.
Below	Already selected batch to be created.

© 2026 Boyum IT Solutions A/S



Window mw_batchnum_splitt.psr

Process description:

Indicate the batch to split (left) and the batch to be created (right). The amount of the batches to be created may not exceed the amount of batches to be divided. Different units of measurement are not considered.

Clicking on **Split** the batch on the list below is accepted and the "available" value is reduced accordingly.

Click **Batch booking** to issue the total amount of the batches to be split and to post in the batches to be created (in the background an issue and a receipt document are generated)

In parallel, a transfer document is created with its own document number. There the numbers of the related documents for receipt and issue are stored. Documents are accessible via **right-click - archive.**

© 2026 Boyum IT Solutions A/S

- Window settings

The behavior of the batch split function can be adapted using **right-click – window settings**. These are saved as workstation-specific.

Window setting	Description
Choose item with batchnum	If enabled, batch numbers and bin locations are displayed in item selection list. Thus all information is displayed in a list. Note: This list can get very long. If disabled: Only batch-related items with stock are displayed.
Label Reports	A report can be stored which is generated when clicking "divide". Parameters for the report: `itemcode, distnumber, quantity, unit, whscode, bincode, mnfserial, lotnumber`
Label Printer	If another printer than the default printer shall be used for printing the label report, enter the printer name here.
Document Report	A Crystal-Report can be stored. It is printed when clicking on "post batch" . Parameters for the report: `docentry` This refers to the table `beas_batchnumtrans.docentry` where all additional information is stored.
Scale SQL	A SQL-statement can be stored returning the quantity. ***Example***: `select top 1 weight from my_scale_table order by nr desc` ***Example*** of use: scales are entering the weight to an SQL table. The entered value is transferred clicking the button "scale".
Scale timer	If enabled, scale SQL is executed every 2 seconds and the last weight is used.

Note:

SAP and WMS Bin Management are not supported in this window.

© 2026 Boyum IT Solutions A/S

Pricing

The system creates 2 documents
- Issue document for the item which you want to split
- receipt document for all entries

The system uses standard pricing for issue / receipt

Issue document

Basic Initialization - Use Perpetual Inventory is disabled:

Beas uses price from the Configuration wizard - Purchased Items Pricing Booking or In-house Production Pricing Booking

The system converts the price to home currency, saves this in field "Price per Unit" and does not use any rounding.

Basic Initialization - Use Perpetual Inventory is enabled.

The system uses SAP Standard; the item valuation method.

Receipt document

Beas uses price from the Configuration wizard - Purchased Items Pricing Booking or In-house Production Pricing Booking

The system converts the price to home currency, save this in field "Price per Unit" and does not use any rounding.

Note:

The system writes the Price and Unit price, not the total price.

The total price of the Issue document is not the price of receipt document.

Beas does not manage the rounding as it is completely managed by SAP.

When applying Batch split with serial/batch valuation method, consider that Goods issues will be created according to the SAP serial/batch valuation method. However, Goods receipts are generated according to average price valuation.

Example:

An Item has 2 batches

BN001 - 10 units x 10€ = 100€
BN002 - 10 units x 5€ = 50€

© 2026 Boyum IT Solutions A/S

Using the Batch split function:
Split 5 units of BN001 to BN002 (the system issues 5 units of BN001, then receipts 5 units of BN002)

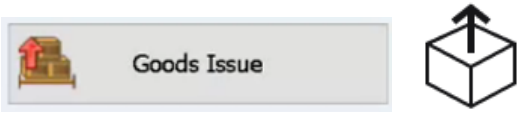
Cost of the goods issues of BN001 is calculated by SAP (using batch/serial valuation) as 5 units x 10€ = 50€

Cost of the goods receipt of BN002 is calculated as average price of all batches in stock at the moment the goods receipt is going to be created.

BN001 5 units x 10€ = 50€
BN002 10 units x 5€ = 50€

Cost average at the goods receipt is = (50 + 50) / 15 = 6.66666666€

17.3.2.9 Goods Issue



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.
See Terminal settings in Configuration wizard.

This app opens the window for manual postings.
With manual postings the inventory can be adjusted without a document.
For example, after the stocktaking, part of the stock was not counted, the missed amount can then be manually posted.

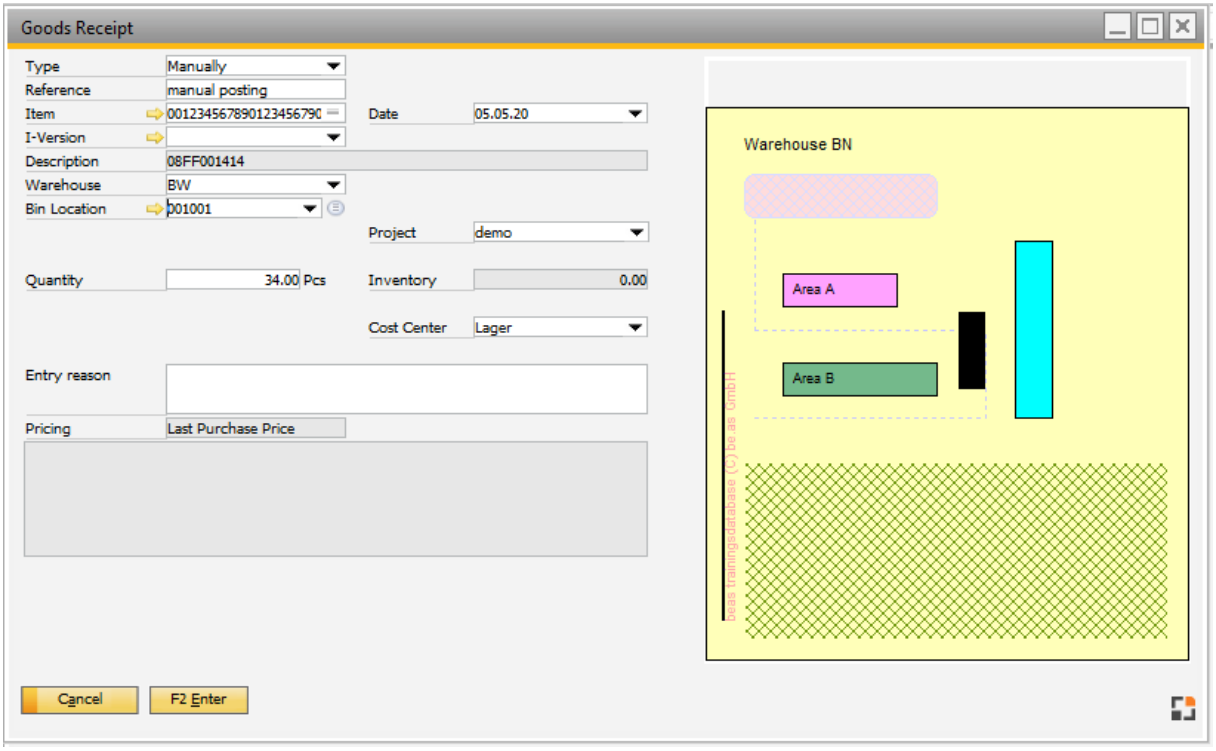
The following manual posting options are available:

- Receipt
- Issue
- Transfer

Only one item can be added per manual posting procedure.

© 2026 Boyum IT Solutions A/S

The posting is a simplified operation to be used in production and some information is omitted.



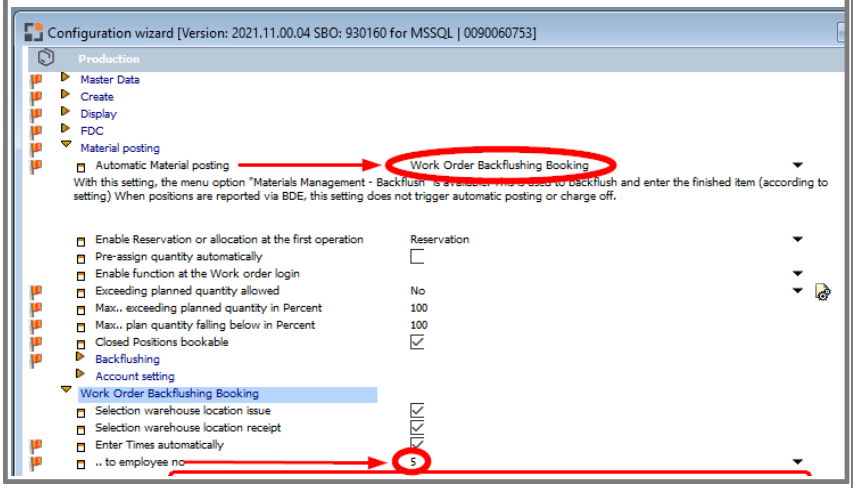
Window mw_manuell_buchen.psr

Posting types

There are different types of postings

Type	Description
Manual	Used to report a manual posting. This option uses the accounts set in Beas general parameters. These accounts can be different from the correction option.
Production	Assigned to a production order. Entry of the production document and the position or BoM position is necessary. The process: After choosing the position, the item is inserted automatically. The posted quantity is displayed and evaluated in the production structure views. In the Production order field the following can be entered: • work order number • work order position bar code • BoM bar code

© 2026 Boyum IT Solutions A/S

	The entry is processed according to its type. **Production posting type special case** **Receipt - Pricing** With the Type "Production" selected, the Pricing field becomes invisible as then the pricing Production valuation assembly is used. Postcalculation may be running in the background. **Receipt - order time receipt** is created automatically if enabled in Configuration wizard – Production – Work order backflushing – Book times automatically and "...to employee" is defined 
Correction	Used to report adjustment of remaining inventory (evaporation, scrap, and so on). This option uses the accounts set in Beas general parameters.
Inventory	Uses the same accounts as the Manually option, but the inventory adjustment posting type is entered in the comment field in the goods issues document.

Window structure, field description

The input window structure changes, depending on the entered information. Related fields become available depending on whether receiving, issuing or transferring takes place, whether a batch or a serial number is entered or whether there are different inventories or Production UoMs. The same applies to bin locations. If the bin location has been created, they are displayed for selection.

Field	Meaning

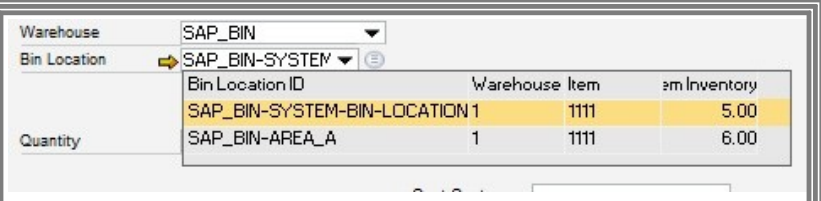
© 2026 Boyum IT Solutions A/S

Work order	Displayed only if Production type was selected. The Work order area has three fields: Document number, line and position. If new is selected from the position drop-down, "-1" is displayed in the field. A new work order position can be entered instead of the -1, the item and quantity can be selected. **1. Field - work order number** The work order can be selected from the drop-down list or scan: a) The work order document number (Data field: beas_fthaupt.belnr_id). b) The work order bar code (9 digits). It is used for posting in the assembly. The second and third field is filled automatically. (Data field: beas_ftpos.barcode) c) The material bar code. Used to post material. (Data field: beas_ftstl.nummer) (BoM - Extended - Bar code) **2. Field - work order line number** Select work order item to be issued or posted (Data field: beas_ftpos.belpos_id). Only items allowed to post are available (items not closed or blocked) **3. Field - work order position number** Select the BoM item to be posted (Data field: beas_ftstl.pos_id). Only BoM positions that are not closed been closed, with warehouse oriented items are allowed. Special case: 0 or empty = the assembly is posted. -1 = a new BoM item is generated. Blocked BoM positions Blocked BoM positions cannot be selected, but the position number can be manually entered or scanned via

© 2026 Boyum IT Solutions A/S

	barcode. For postings, the respective authorizations are required. Post and create new BoM position It is possible, to issue material and to create a BoM position at the same time, if the position does not exist. Select the work order document and the assembly, and then select "new" in the third field.
Item	Item number. NOTE on WMS-related receipt: **WMS Integration:** If the receipt is made from BEAS in a WMS warehouse, it applies the Quality status defined in **Produmex WMS > Organizational Structure > Production tab**.
I-Version	Item version to be posted. *(beas 9.1 PL: 08)* Note: It is only possible to create a manual receipt of an item version with "Released" status.
Warehouse	Warehouse that item is posted to. ***See*** Warehouse rules. Note: As of Beas Manufacturing 9.3 PL03, Produmex WMS warehouses are supported for Beas transactions.
Bin location	Bin location to be posted to Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components: **Arrow icon** / List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location.

© 2026 Boyum IT Solutions A/S



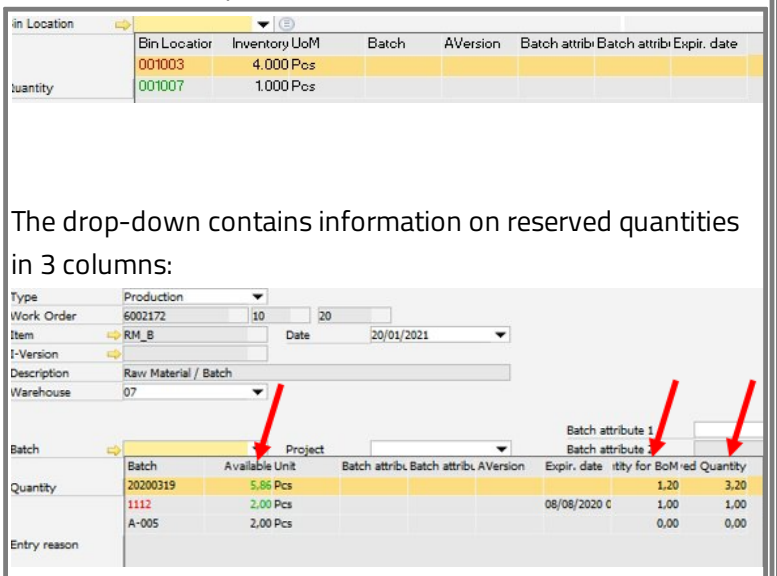
The selected drop-down option displays the following information in receipt documents:

- Bin Location
- Warehouse Area
- First item in this bin location
- Stock of the first item in this bin location

The list can be modified in the Configuration wizard.

The selected drop-down option displays the following information in issue documents:

- All stock information of all bin locations with batch- and serial number information.
- Reserved Batch quantities information



The drop-down contains information on reserved quantities in 3 columns:

The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

© 2026 Boyum IT Solutions A/S

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

- Notes: Beas Bin Warehouse

  The Definition of the bin location is mandatory.

- Notes: SBO Bin Warehouse

  If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
  This is entirely managed by SAP Business One.

  Drop-down for volume or weight is not supported. Columns are always 0.
  beas 9.3 PL 2

- Notes: WMS Bin Warehouse

  Bin location is mandatory.

© 2026 Boyum IT Solutions A/S

Drop-down for volume and weight not supported.

Customizing of the drop-down list in Beas 9.3 PL 2 or newer release

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent setbindropown`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

In the `e_bindropdownbsl` variable, the ODATA command can be defined.
It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$mask=1
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

© 2026 Boyum IT Solutions A/S

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

Window-specific adjustments:

Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.

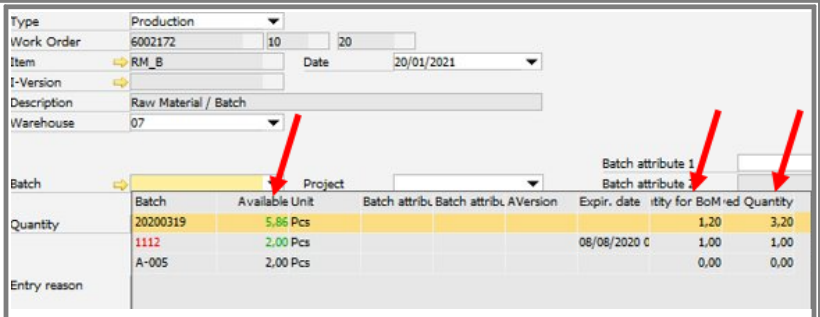
Example:

```
windowevent setbindropdown
setvar=e_bindropdown=ddsql=select "BINCODE" from
"BEAS_WHSBIN" where
```

© 2026 Boyum IT Solutions A/S

	"WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT" end event Note: This window event is supported in every window where the selection field is available. **General adjustment** Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration. file stockmanagement.src function binreceiptdropdown setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT" end function ***See*** Warehouse rules.
LUID	Define LUID number ***See*** LUID behavior settings. WMS Production receipt
Project	Link to an SAP Project code. The default value comes from the project linked to the work order. If continued stock is active in the database, the project code is included in the journal entry.
Batch/Serial	Click the orange arrow to generate a new batch or serial number. After this batch or serial number is firmly assigned and the arrow is hidden. Information on Reserved Batches: The drop-down contains information on reserved quantities in 3 columns:

© 2026 Boyum IT Solutions A/S



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

See:

Production – Batch administration

Materials management – Batch administration

Date	Posting date of the document. The default value is the today variable.
Quantity	The quantity to be issued. **Serial numbers:** For serial numbers only a quantity of 1 can be entered.

© 2026 Boyum IT Solutions A/S

	Serial number reservation Posting in a production assembly any quantity can be entered if the serial number determination is set to "automatic" for the respective item and the serial numbers have been reserved. In this case, a window opens where the serial numbers can be selected. ***See:*** Configuration wizard – Production – Serial numbers Concept Serial number reservation Item master – Series tab
Conv-Quantity	Enter posting quantity in consumption units Only displayed, if the consumption unit does not match the warehouse unit of the item. ***See*** consumption unit The entered quantity is converted to warehouse unit. Length, width and height are indicated. These parameters are considered, using the conversion formula. ***See*** Conversion
Close	Close WO position Only visible, if a production assembly is posted. Set automatically, as soon as the planned quantity is reached. Manual change is possible. The behavior can be defined in Configuration wizard - Close assembly automatically. If the option is active, the production position is closed after receipt.
Cost center	Select cost center If no cost center is selected, the default settings apply. **Adaptation** Use the script in workordermanagement.src and materialmanagement.src to extend determining the cost center.

© 2026 Boyum IT Solutions A/S

	See Configuration wizard - Production - Material - Account determination Configuration wizard - Production - Assembly - Account determination Item - General - Cost center
Entry reason	Free text to add information.
Pricing	Shows the method determining the price. Automatically filled.

Production Assembly	Settings apply from **Production > Valuation and booking of the assembly > Valuation**
Post in positive BoM item	Settings apply from **Materials management > post in manually > Purchased items pricing booking**
Post in negative BoM item	Settings apply from **Calculation > Precalculation > Pricing negative BoM**
Other posting	Settings apply from **Materials management > Post in manually > Purchased items/In-house production pricing booking**

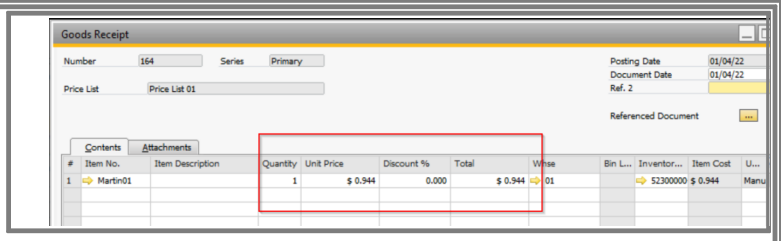
SAP Limitation:

SAP Manual receipts: When Beas creates a receipt document, the system calculates the Unit price based on calculating the Total price of the booking.

The difference between the decimals of SAP and Beas can cause mismatch between the values: The "Total" price field may be rounded as the Unit price is defined with a different

number of decimals.

© 2026 Boyum IT Solutions A/S



Additional fields are available at transfer:

Field	Description
To	Define the warehouse to transfer to. The To warehouse can only have the same entry as Warehouse if it is a bin location inventoried warehouse. A pure bin location transfer is then possible. Note: A bin location move instead of a SAP Business One - Transaction runs at a bin location transfer. There is no account movement, no calculation of FIFO prices or average prices. The bin location entry is changed. An entry is created in the bin location-movement protocol.
Bin Location	Define the bin location to transfer to. For further information, ***see*** from bin location.

Functions and Buttons

Button	Description
Cancel	Cancel the process.
Batch list (F3)	Inventory list by batches This button is only visible if a batch related item is selected.
Book (F2)	Start the booking process.

Events

Every posting process creates several events, which can be set as default or customized (***see*** customizing).

© 2026 Boyum IT Solutions A/S

Posting finished products (assigned to a work order), calls the assignment program which controls closing, pricing, and batch administration. An external materials management system can also be connected and used in parallel.

- Account settings

Accounts that are used, depend on the posting type. If a posting is performed with reference to a work order, generally the WIP account of the work order is used. In other cases the default account of SAP Business One is used. Account settings can be changed in the Configuration Wizard.

See:

Materials management - manual postings

Production – posting

Production – Account determination

- Pricing

Pricing depends on the posting type. If an assembly is posted in for a work order, pricing is performed as set up in the work order, if there was nothing set up, the settings in **Configuration wizard > Materials management** apply.

See:

Materials management - Pricing

Production Valuation of assembly

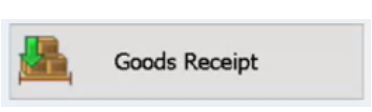
- Batches and Serial numbers

See

Configuration wizard – Batch administration

Configuration wizard – Serial numbers

17.3.2.10 Goods receipt



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.

See Terminal settings in Configuration wizard.

This app opens the window for manual postings.

With manual postings the inventory can be adjusted without a document.

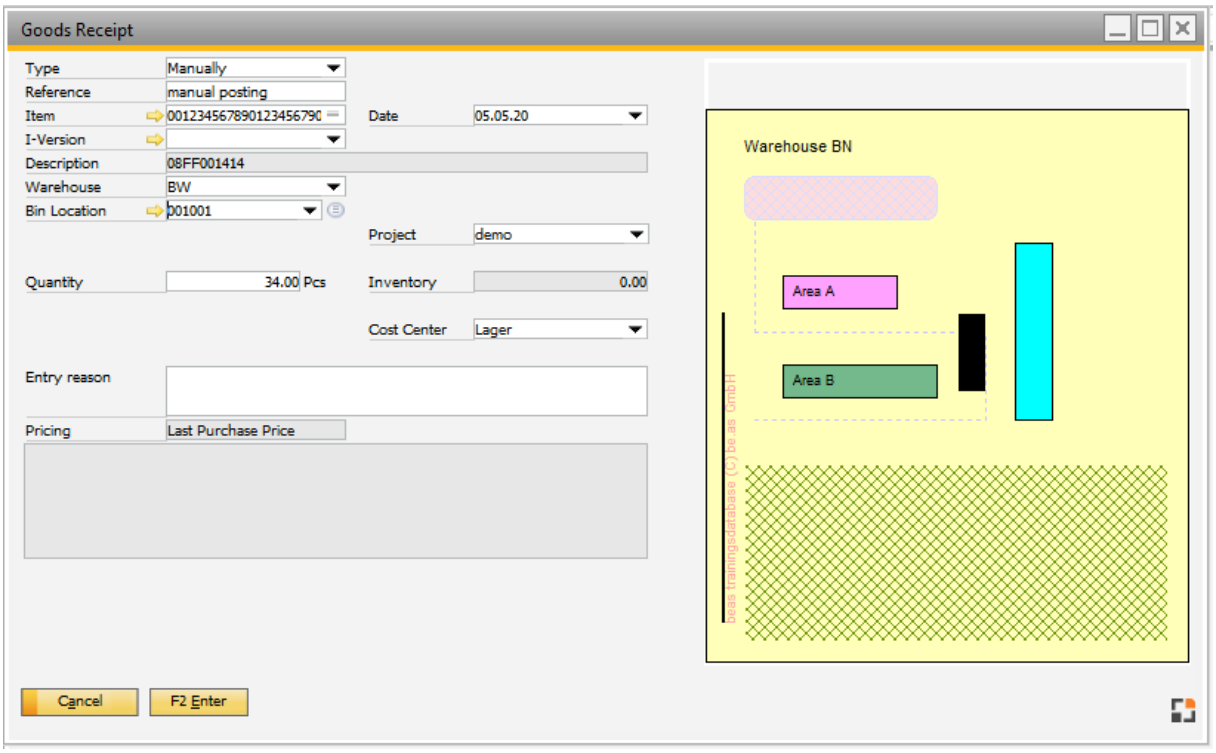
For example, after the stocktaking, part of the stock was not counted, the missed amount can then be manually posted.

© 2026 Boyum IT Solutions A/S

The following manual posting options are available:

- Receipt
- Issue
- Transfer

Only one item can be added per manual posting procedure.
The posting is a simplified operation to be used in production and some information is omitted.



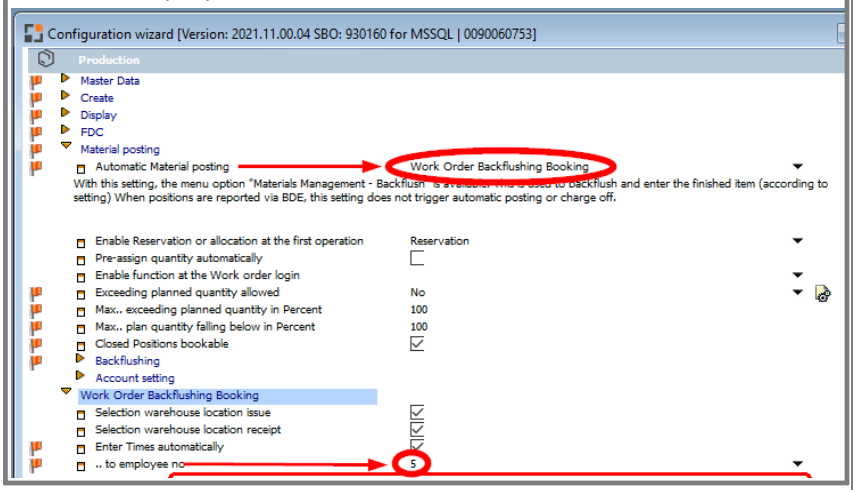
Window mw_manuell_buchen.psr

Posting types

There are different types of postings

Type	Description
Manual	Used to report a manual posting. This option uses the accounts set in Beas general parameters. These accounts can be different from the correction option.
Production	Assigned to a production order. Entry of the production document and the position or BoM position is necessary. The process:

© 2026 Boyum IT Solutions A/S

	After choosing the position, the item is inserted automatically. The posted quantity is displayed and evaluated in the production structure views. In the Production order field the following can be entered: • work order number • work order position bar code • BoM bar code The entry is processed according to its type. **Production posting type special case** **Receipt - Pricing** With the Type "Production" selected, the Pricing field becomes invisible as then the pricing Production valuation assembly is used. Postcalculation may be running in the background. **Receipt - order time receipt** is created automatically if enabled in Configuration wizard – Production – Work order backflushing – Book times automatically and "...to employee" is defined 
Correction	Used to report adjustment of remaining inventory (evaporation, scrap, and so on). This option uses the accounts set in Beas general parameters.
Inventory	Uses the same accounts as the Manually option, but the inventory adjustment posting type is entered in the comment field in the goods issues document.

Window structure, field description

© 2026 Boyum IT Solutions A/S

The input window structure changes, depending on the entered information. Related fields become available depending on whether receiving, issuing or transferring takes place, whether a batch or a serial number is entered or whether there are different inventories or Production UoMs. The same applies to bin locations. If the bin location has been created, they are displayed for selection.

Field	Meaning
Work order	Displayed only if Production type was selected. The Work order area has three fields: Document number, line and position. If new is selected from the position drop-down, "-1" is displayed in the field. A new work order position can be entered instead of the -1, the item and quantity can be selected. **1. Field - work order number** The work order can be selected from the drop-down list or scan: a) The work order document number (Data field: beas_fthaupt.belnr_id). b) The work order bar code (9 digits). It is used for posting in the assembly. The second and third field is filled automatically. (Data field: beas_ftpos.barcode) c) The material bar code. Used to post material. (Data field: beas_ftstl.nummer) (BoM - Extended - Bar code) **2. Field - work order line number** Select work order item to be issued or posted (Data field: beas_ftpos.belpos_id). Only items allowed to post are available (items not closed or blocked) **3. Field - work order position number** Select the BoM item to be posted (Data field: beas_ftstl.pos_id). Only BoM positions that are not closed been closed, with warehouse oriented items are allowed.

© 2026 Boyum IT Solutions A/S

	Special case: 0 or empty = the assembly is posted. -1 = a new BoM item is generated. Blocked BoM positions Blocked BoM positions cannot be selected, but the position number can be manually entered or scanned via barcode. For postings, the respective authorizations are required. Post and create new BoM position It is possible, to issue material and to create a BoM position at the same time, if the position does not exist. Select the work order document and the assembly, and then select "new" in the third field.
Item	Item number. NOTE on WMS-related receipt: **WMS Integration:** If the receipt is made from BEAS in a WMS warehouse, it applies the Quality status defined in **Produmex WMS > Organizational Structure > Production tab**.
I-Version	Item version to be posted. *(beas 9.1 PL: 08)* Note: It is only possible to create a manual receipt of an item version with "Released" status.
Warehouse	Warehouse that item is posted to. ***See*** Warehouse rules. Note: As of Beas Manufacturing 9.3 PL03, Produmex WMS warehouses are supported for Beas transactions.
Bin location	Bin location to be posted to Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components:

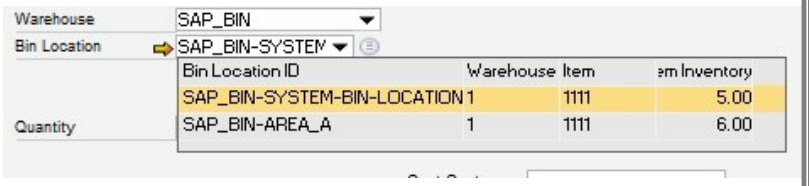
© 2026 Boyum IT Solutions A/S

Arrow icon /

List of all bins where the item is located.

Selection (Drop-down)

A list opens to select the desired bin location.



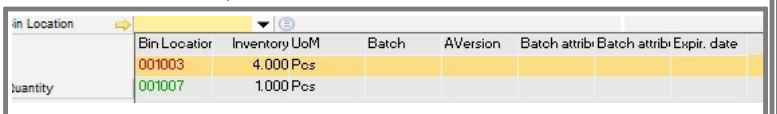
The selected drop-down option displays the following information in receipt documents:

- Bin Location
- Warehouse Area
- First item in this bin location
- Stock of the first item in this bin location

The list can be modified in the Configuration wizard.

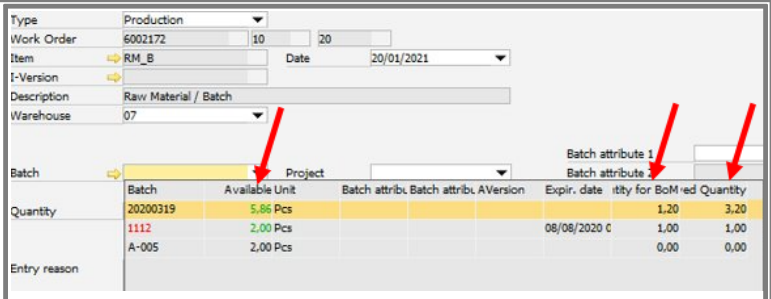
The selected drop-down option displays the following information in issue documents:

- All stock information of all bin locations with batch- and serial number information.
- Reserved Batch quantities information



The drop-down contains information on reserved quantities in 3 columns:

© 2026 Boyum IT Solutions A/S



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

Notes: Beas Bin Warehouse

The Definition of the bin location is mandatory.

© 2026 Boyum IT Solutions A/S

Notes: SBO Bin Warehouse

If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
This is entirely managed by SAP Business One.

Drop-down for volume or weight is not supported. Columns are always 0.

beas 9.3 PL 2

Notes: WMS Bin Warehouse

Bin location is mandatory.
Drop-down for volume and weight not supported.

Customizing of the drop-down list in Beas 9.3 PL 2 or newer release

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent setbindropown`)
2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

In the `e_bindropdownbsl` variable, the ODATA command can be defined.
It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.

The standard functions for receipt and issue are as folows:

```
file stockmanagement.src

function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bsl>)?$mask=1
end function
```

© 2026 Boyum IT Solutions A/S

```
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

The following priorities are considered:

1. Window-related customization (`windowevent`)

© 2026 Boyum IT Solutions A/S

2. General changes (`stockmanagement.src`)
3. Settings in the Configuration wizard

Window-specific adjustments:

Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.

Example:

```
windowevent setbindropdown
setvar=e_bindropdown=ddsql=select "BINCODE" from
"BEAS_WHSBIN" where
"WhsCode"=<e_binwhscode,dbstring> order by
"STORAGESORT"
end event
```

Note: This window event is supported in every window where the selection field is available.

General adjustment

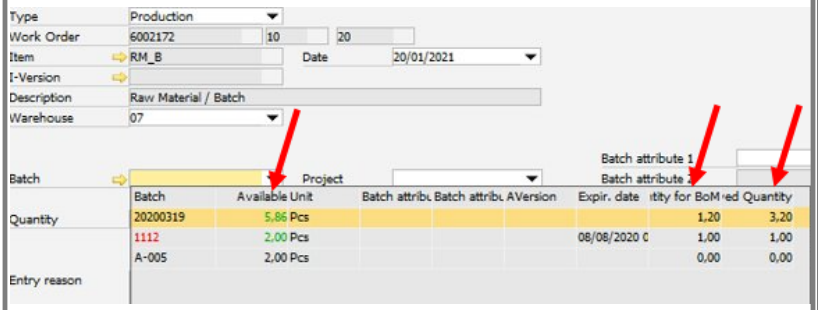
Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.

```
file stockmanagement.src
function binreceiptdropdown
setvar=e_bindropdown=ddsql=select "BINCODE" from
"BEAS_WHSBIN" where
"WhsCode"=<e_binwhscode,dbstring> order by
"STORAGESORT"
end function
```

See Warehouse rules.

LUID	Define LUID number ***See*** LUID behavior settings. WMS Production receipt
Project	Link to an SAP Project code. The default value comes from the project linked to the work order. If continued stock is active in the database, the project code is included in the journal entry.

© 2026 Boyum IT Solutions A/S

Batch/Serial	Click the orange arrow to generate a new batch or serial number. After this batch or serial number is firmly assigned and the arrow is hidden. Information on Reserved Batches: The drop-down contains information on reserved quantities in 3 columns:  The batch entry in the list is displayed in RED color if the Batch is not free. **Quantity-related information:** **Field** / **Description** Available: Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail. Reserved for BoM: Reserved Quantity for this BoM Position Reserved Quantity: Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail. Inventory: Stock batch quantity in the bin location. ***See:*** Production – Batch administration

© 2026 Boyum IT Solutions A/S

	Materials management – Batch administration
Date	Posting date of the document. The default value is the today variable.
Quantity	The quantity to be issued. **Serial numbers:** For serial numbers only a quantity of 1 can be entered. **Serial number reservation** Posting in a production assembly any quantity can be entered if the serial number determination is set to "automatic" for the respective item and the serial numbers have been reserved. In this case, a window opens where the serial numbers can be selected. ***See:*** Configuration wizard – Production – Serial numbers Concept Serial number reservation Item master – Series tab
Conv-Quantity	☐ Enter posting quantity in consumption units Only displayed, if the consumption unit does not match the warehouse unit of the item. ***See*** consumption unit The entered quantity is converted to warehouse unit. Length, width and height are indicated. These parameters are considered, using the conversion formula. ***See*** Conversion
Close	☐ Close WO position Only visible, if a production assembly is posted. Set automatically, as soon as the planned quantity is reached. Manual change is possible. The behavior can be defined in Configuration wizard - Close assembly automatically. If the option is active, the production position is closed after receipt.
Cost center	☐ Select cost center

© 2026 Boyum IT Solutions A/S

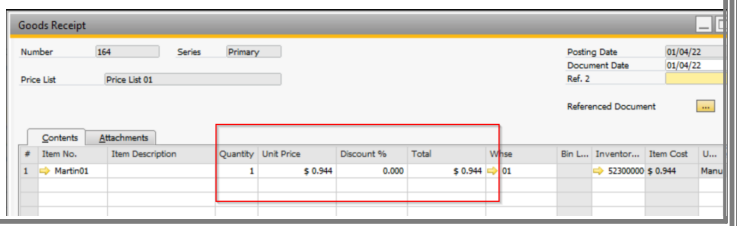
<table>
<tr><td></td><td>If no cost center is selected, the default settings apply.

Adaptation
Use the script in workordermanagement.src and materialmanagement.src to extend determining the cost center.

See
Configuration wizard - Production - Material - Account determination
Configuration wizard - Production - Assembly - Account determination
Item - General - Cost center</td></tr>
<tr><td>Entry reason</td><td>Free text to add information.</td></tr>
<tr><td>Pricing</td><td>Shows the method determining the price. Automatically filled.
<table>
<tr><td>Production Assembly</td><td>Settings apply from Production > Valuation and booking of the assembly > Valuation</td></tr>
<tr><td>Post in positive BoM item</td><td>Settings apply from Materials management > post in manually > Purchased items pricing booking</td></tr>
<tr><td>Post in negative BoM item</td><td>Settings apply from Calculation > Precalculation > Pricing negative BoM</td></tr>
<tr><td>Other posting</td><td>Settings apply from Materials management > Post in manually > Purchased items/In-house production pricing booking</td></tr>
</table>
SAP Limitation:
SAP Manual receipts: When Beas creates a receipt document, the system calculates the Unit price based on calculating the Total price of the booking.
The difference between the decimals of SAP and Beas can cause mismatch between the values: The "Total" price field may be rounded as the Unit price is defined with a</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

different
number of decimals.



Additional fields are available at transfer:

Field	Description
To	Define the warehouse to transfer to. The To warehouse can only have the same entry as Warehouse if it is a bin location inventoried warehouse. A pure bin location transfer is then possible. Note: A bin location move instead of a SAP Business One - Transaction runs at a bin location transfer. There is no account movement, no calculation of FIFO prices or average prices. The bin location entry is changed. An entry is created in the bin location-movement protocol.
Bin Location	Define the bin location to transfer to. For further information, ***see*** from bin location.

Functions and Buttons

Button	Description
Cancel	Cancel the process.
Batch list (F3)	Inventory list by batches This button is only visible if a batch related item is selected.
Book (F2)	Start the booking process.

Events

© 2026 Boyum IT Solutions A/S

Every posting process creates several events, which can be set as default or customized (***see*** customizing).
Posting finished products (assigned to a work order), calls the assignment program which controls closing, pricing, and batch administration. An external materials management system can also be connected and used in parallel.

- Account settings

Accounts that are used, depend on the posting type. If a posting is performed with reference to a work order, generally the WIP account of the work order is used. In other cases the default account of SAP Business One is used. Account settings can be changed in the Configuration Wizard.

See:
Materials management - manual postings
Production – posting
Production – Account determination

- Pricing

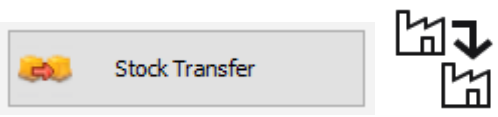
Pricing depends on the posting type. If an assembly is posted in for a work order, pricing is performed as set up in the work order, if there was nothing set up, the settings in **Configuration wizard > Materials management** apply.

See:
Materials management - Pricing
Production Valuation of assembly

- Batches and Serial numbers

See
Configuration wizard – Batch administration
Configuration wizard – Serial numbers

17.3.2.11 Stock Transfer



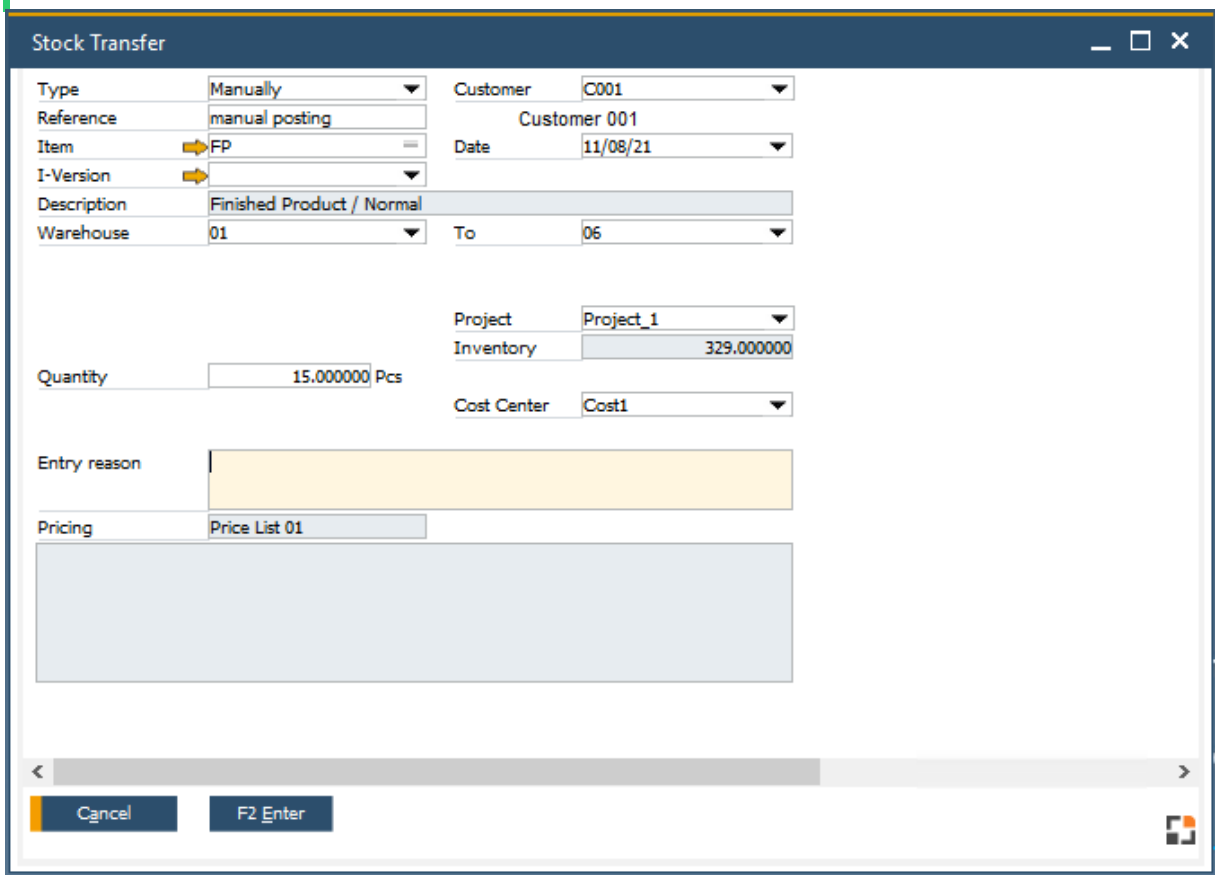
Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.
See Terminal settings in Configuration wizard.

This app opens the window for manual postings.
Stock transfer can be used for transferring one item from one warehouse to another. A bin to bin

© 2026 Boyum IT Solutions A/S

transfer in one warehouse is also possible.

PATH: Inventory > Inventory transactions > Stock transfer (single event)



Window mw_manuell_buchen.psr

Transfer and Reservation

You can transfer reserved material only if you define the linked document.

Example: You reserve material for work order 1000, Pos 10/20.

In Stock transfer you must define Type = Production and Position 10/20 and then it is possible to transfer the material.

The System deletes the reservation from the old warehouse/bin location, but it does not create a new reservation on the new place. You lose the reservation information.

Note:

POI (Folio Numbering) is not supported.

It is not possible to transfer material reserved for a Sales order or Pre-invoice.

© 2026 Boyum IT Solutions A/S

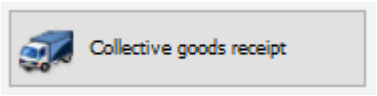
SAP Transfer (Standard):

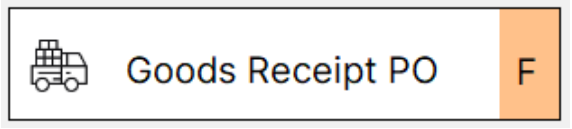
From transfer request, created by Beas (linked to work order): Reservation supported.

For all other: You can't transfer reserved material.

For detailed field descriptions and function buttons ***see***: manual postings.

17.3.2.12 Collective goods receipt





Available with Goods Receipt for Purchase Orders, Labels, Stock Information license.

See Terminal settings in Configuration wizard.

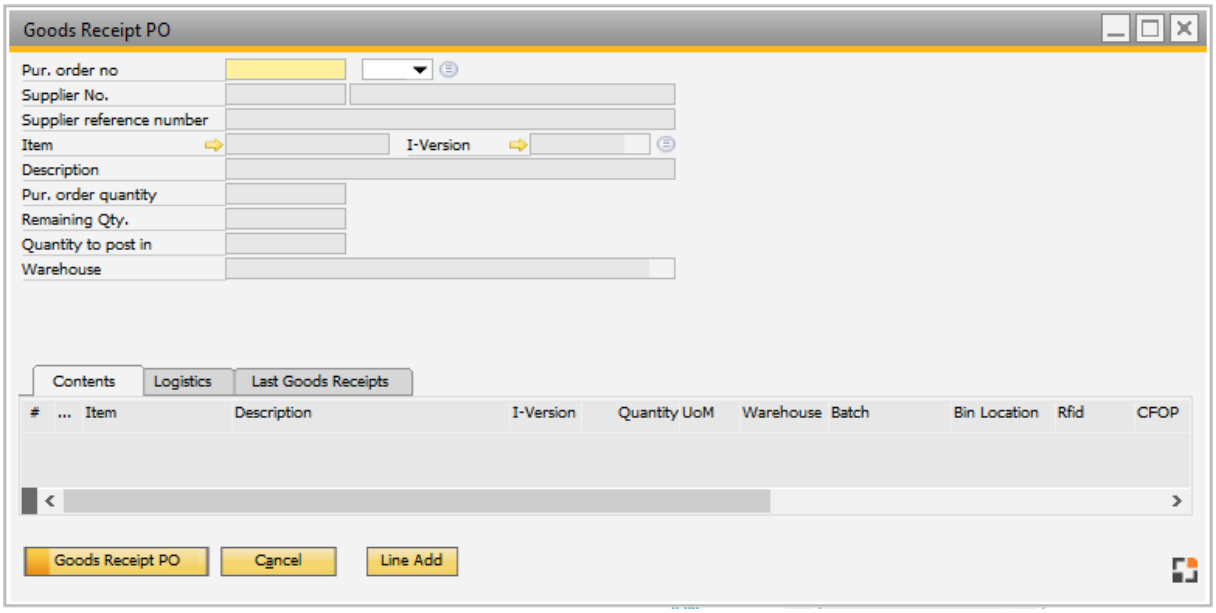
When launching this app, the Goods Receipt Purchase window appears.

Goods receipt is a replacement function for SAP Business One – **Purchase > Good receipt PO**.

This function is ideal to be employed directly at the goods receipt location and supports, apart from supplied parts lists, optimal batch support and serial numbers support, quality control, label printing and some other important functions. Goods receipt creates a regular goods receipt delivery note in SAP Business One.

Multiple Goods Receipt purchase window (default)

© 2026 Boyum IT Solutions A/S



Window mw_goodsreceiptpo_edit.psr

Special Functions:

- Several purchase order rows can be posted in with one goods receipt document
- Posting in several batches, only one goods receipt row is created.
- Summary of different purchase orders is not possible
- All good receipts which has been created on this station via this window are displayed in tab "previous good receipts". Own good receipt function created via SAP B1 or good receipts, which has been created on other stations, are not be displayed here.
- Support Beas, SAP and WMS Bin Management

Single Variant

There are two functions: You can set up the one to be used in **Configuration wizard > Materials management > Goods receipt > Goods receipt type.**

Attention:

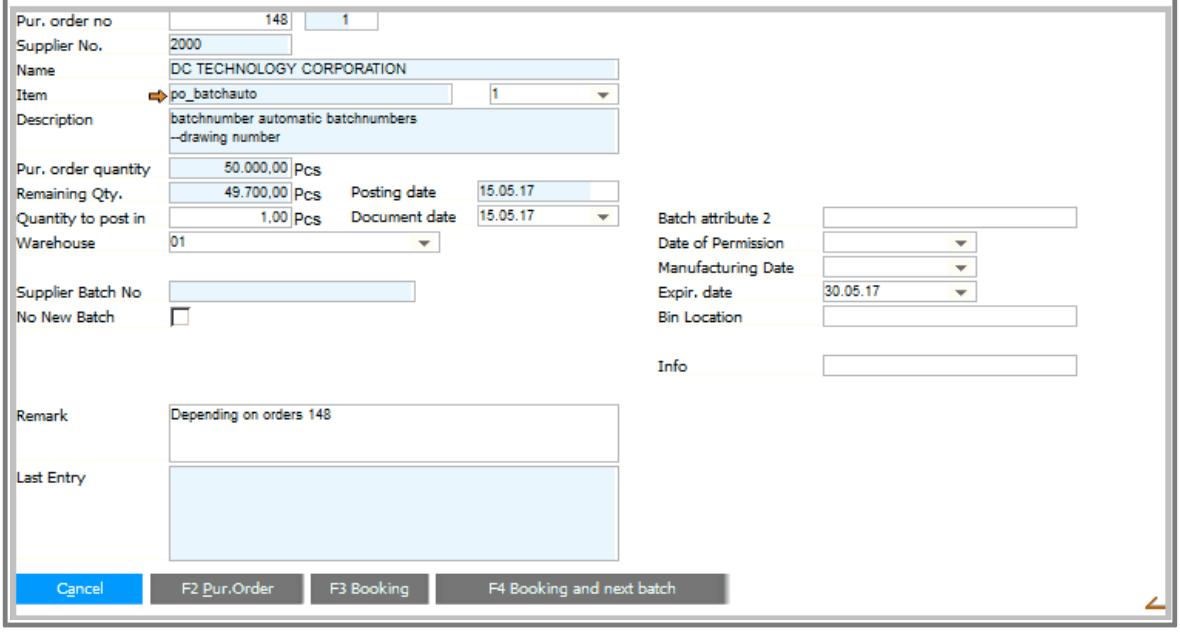
Do not use this Variant. This window is in maintenance and this will not be supported in the future.

This is still available only for reasons of compatibility and will be replaced by the "Multiple".

- Per purchase order row one goods receipt is created.
- For each batch a goods receipt is created.
- Several serial numbers can be posted in with one goods receipt.

© 2026 Boyum IT Solutions A/S

- **SAP functionalities newer than SAP 9.0 are NOT supported.**



Field description

Apart from the order information, additional fields are shown – depending on the item type.
Window settings are available

Note: Localization in this window is not supported.

Field	Meaning
Purchase order number	Select from open purchase orders or purchase requests (switch on the right to open the window open purchases) You can insert the number manually or you can choose this from a list. If you insert the number manually, you can insert only a Purchase order, not Pre-Invoice or Quotation number. If a Document number exists more than once, Beas uses the last document.
Supplier number	Supplier number
Supplier reference number (only for GO type multiple)	Free text

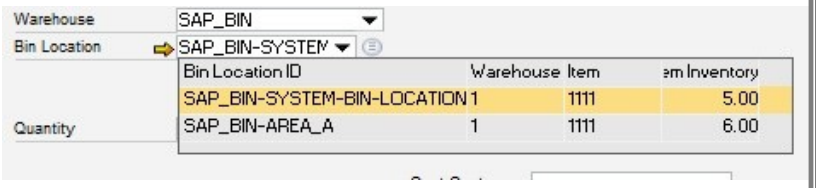
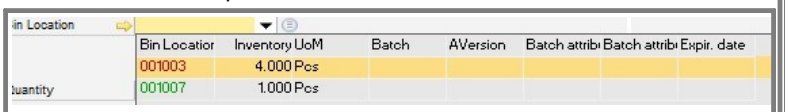
© 2026 Boyum IT Solutions A/S

Field	Meaning
Name	Supplier name
Item	Item
Item description	Item description
Pur. order quantity	Purchases quantity
Remaining quantity	Remaining quantity
Quantity to post in	Quantity to be posted in now. **Warning:** All quantities are shown in the purchasing UoM. The number of decimal places depends on Master data – Units of measure. If per line serial numbers are entered, this field displays the current total quantity according to the sum of all quantities from entries below. Notes on serial numbers: In item master series tab you can set up whether serial numbers are generated automatically or not. Serial numbers are generated manually. If serial numbers are entered per line, these fields show the current total quantity. Automatically generated serial numbers. The quantity can be specified. Serial numbers are generated only at the moment of goods receipt. Number generation is set up in Configuration wizard – Materials management - Goods receipt – Serial numbers.
Date of entry (Only type "single")	The date for the entry. It is normally the current day. Depending on the settings (goods receipt type simple or multiple) this field is to be found under logistics tab.
Reference date	Corresponds to Tax date in SAP document.
Warehouse	Target warehouse

© 2026 Boyum IT Solutions A/S

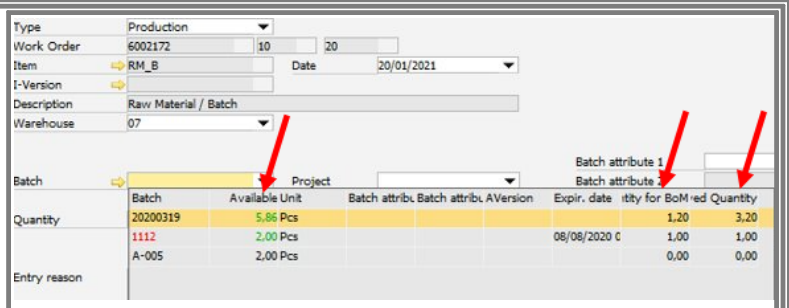
Field	Meaning
	Warehouse stored in purchase order. Representing the primary inventory. Depending on the setting, the quality control warehouse is set up automatically. If a goods receipt warehouse is defined, depending on the rules the associated goods receipt warehouse is entered. Limitations: - SAP Bin Warehouse supported. But it is not possible to make a receipt on different Serial- or Batch Numbers with the same base document line. - Beas Warehouses: The same base line purchase document cannot be received in 2 different bin locations. - WMS bin warehouses are supported, but the same base line purchase document cannot be received in 2 different bin locations. - WMS Warehouses: System creates separate lines for each entry, which means that only 1 entry can be assigned for each base line. ***See***: Configuration wizard – Quality control – Goods receipt Edit warehouse master data
Bin location	Determines to which bin location the goods are posted at receipt. Supported: Beas and SAP Bin Management ***See*** Receipt on bin location Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components:

© 2026 Boyum IT Solutions A/S

Field	Meaning
	Arrow icon / List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location.  **The selected drop-down option displays the following information in receipt documents:** • Bin Location • Warehouse Area • First item in this bin location • Stock of the first item in this bin location The list can be modified in the Configuration wizard. **The selected drop-down option displays the following information in issue documents:** • All stock information of all bin locations with batch- and serial number information. • ⊟ Reserved Batch quantities information  The drop-down contains information on reserved quantities in 3 columns:

© 2026 Boyum IT Solutions A/S

Field	Meaning



The batch entry in the list is displayed in RED color if the Batch is not free.

Quantity-related information:

Field	Description
Available	Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.
Reserved for BoM	Reserved Quantity for this BoM Position
Reserved Quantity	Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Inventory	Stock batch quantity in the bin location.

Select or List - Icon

By using the selection icon, an adjustable selection list opens. Window settings and templates are supported.

- Notes: Beas Bin Warehouse

© 2026 Boyum IT Solutions A/S

Field	Meaning

	The Definition of the bin location is mandatory.
	Notes: SBO Bin Warehouse
	If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type.
	This is entirely managed by SAP Business One.
	
	Drop-down for volume or weight is not supported. Columns are always 0.
	beas 9.3 PL 2
	Notes: WMS Bin Warehouse
	Bin location is mandatory.
	Drop-down for volume and weight not supported.
	Customizing of the drop-down list in Beas 9.3 PL 2 or newer release
	This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.
	
	The following priorities are considered:
	1. Window-related customization (`windowevent setbindropown`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	In the `e_bindropdownbsl` variable, the ODATA command can be defined.
	It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.
	
	The standard functions for receipt and issue are as folows:
	`file stockmanagement.src`
	`function binreceiptdropdown`

© 2026 Boyum IT Solutions A/S

Field	Meaning

```
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$mask=1
end function


function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,
BatchAttribute2,ExpirationDate&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0
end function
```

For receipt, use BinLocation.

For issue, use WareHouseStock.

For more information, ***see*** Beas Service Layer documentation.

Example

-- file stockmanagement.src --

```
// BinReceipt: Show all Bin Locations, ordered by
OnHand descending, BinCode ascending:
function binreceiptdropdown
setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bs
l>)?$select=BinLocation/BinCode,BinLocation/BinColor
,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc
end function

// BinIssue: Show only Bin Locations where OnHand >
0 of the selected ItemCode, ordered by OnHand
descending, BinCode ascending:
function binissuedropdown
setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode
,bsl>)?$select=BinLocation/BinCode,BinLocation/BinCo
lor,OnHand,UoMCode,Batch&$filter=ItemCode eq
<e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand
desc, BinLocation/BinCode asc
end function
```

- Customization of the drop-down list in Beas 9.3 PL 1 or earlier release

Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.

This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.

© 2026 Boyum IT Solutions A/S

Field	Meaning

	The following priorities are considered:
	1. Window-related customization (`windowevent`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:
	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE" from "BEAS_WHSBIN" where "WhsCode"=<e_binwhscode,dbstring> order by "STORAGESORT"`
	`end function`
	
	LIMITATION: The receipt process linked with a purchase order is not able to create receipt for the same line into 2 different bin locations at the same time. As a workaround for this, the user can generate the receipt document in 2 steps or receipt full quantity in one bin location and move the required quantity to a different location after the receipt is created.

© 2026 Boyum IT Solutions A/S

Field	Meaning
Expiry date	Only possible for batch or serial number items. Determines the expiration or end of warranty date. This date is calculated automatically. Setup in Item master > batch tab or Serial number tab
Supplier Batch No	Only possible for batch or serial number items. A supplier batch number can be specified here. At batch: Entered in the field Supplier batch of the batch. If the field "No new batch" is active, the batch entered here is also used as internal batch number. For serial number: Next to the serial number, the batch is entered in the field "Batch".
Serial number	Different depending on selected "Type "in Configuration wizard. ⊞ Goods receipt type single There are three options: 1. Automatic generation If there is no entry, the numbers are generated automatically. Automatic number generation is set up in Configuration > Materials Management. 2. Manual entry The numbers can be separated with commas, e.g. 10004,100023,100Z3 etc. 3. Manual determination of the automatic generation A template is defined which determines the structure of the serial numbers. *The counter is enclosed by { and } . Example of piece count 3: {0010} results in 0010, 0011, 0012 A5-3{002}X results in A5-3002X,A5-3003X,A5-3004X ⊞ Goods receipt type multiple **1. Automatic generation** No serial number can be entered. Quantities > 1 not possible. Serial numbers are generated with the document.

© 2026 Boyum IT Solutions A/S

Field	Meaning
	2. manual determination Serial numbers are entered or scanned and confirmed with TAB/ENTER. Jump to next entry. Quick entry If a lot of serial numbers are to be entered, numbers can be added one by one: after one click the next serial number is added as a new line. Using bar code scanners, the scanner can be configured for adding a key after each read. Then, the user only needs to read all bar codes – no more action is necessary. After the reading has been finished, click on the "**goods receipt**" button to create the document. This function is only allowed with the following parameters: poincomingtyp set to "M". It works with manual serial items only, because for automatic serial items the window does not show a message with the complete serial number information.
Batch	Entry of the batch This field is only visible if "Manual batch entry" or "Batch according to material" has been set in the Batch tab of the item master. The batch number for the item to be posted can be defined here. The quantity and the batch are indicated on "Add row" and then the next batch is captured if multiple batches are posted. Capture of more batch attributes 1. Right-click on the list. 2. Select Window settings. 3. Fields "Batch attribute 1" as well as all other fields, which are

© 2026 Boyum IT Solutions A/S

Field	Meaning
	required are set to "Visible" and "Changeable" . 4. These fields can now be edited directly in the list.
No new batch (Only type "single")	Only for batch items. No automatic generation of the batch number takes place if this is activated. Instead, the batch number entered in delivery batch No. is used. Otherwise the next number is automatically generated. For more on the batch number ***see*** Batch Management.
CFOP	CFOP Tax code Affects only Brazilian localization. The field is displayed only if a code was stored (table OCFP).
Remarks	Input field for remarks.
Last entry	Last posting entry.
UDF 1–15	User-defined fields Note: The information entered in these fields is saved in the table "BEAS_PLANDOCUMENT_LINE", but not in any other UDFs in Beas. Modification is available by customization.

Only displayed for Goods receipt type "multiple"

Lower tabs

Content: Previously entered items which are to be posted in with the same document.

Archive: Previous goods receipts created on this work station.

Logistics:

Field	Meaning
Posting date	The date for the entry. It is normally the current day.
Document date	Creation date of the selected document.
Remark	Free text.
Label	Only for compatibility reasons. Can be used for own Macros.

In the lower list items selected for posting are displayed. With a click on the deletion icon they

© 2026 Boyum IT Solutions A/S

can be removed. Click the goods receipt button to perform the posting.

Functions

Function	Meaning
Line Add	To post in a second item. Previously entered values are displayed below, the upper fields are emptied for new entries. If for a document row more than one inflow was added (e.g. a second batch) the second entry is locked and the selected stock of the first row is used, because for a goods receipt only one warehouse may be selected per document line.
Goods receipt PO	Execute the posting.
Cancel	Close window without saving changes.
Post and new batch	Only for Goods receipt Type "single" and batch-managed items. If an item was entered after posting, the screen not reset. You can easily record the next batch for the same order.

Process

1. Select the order with F2.
2. Enter posting quantity.
3. Execute the order by pressing F3.

(Note: In SAP Business One-environment F-keys cannot be used. These are available only when Beas is started outside SAP Business One)

If a provision parts list exists, it is queried afterwards.

See Provision parts.

Quality control

If a quality control order is stored in the item, it is created immediately after completing the goods receipt. Depending on the settings in Configuration wizard - Quality control - Goods receipt the quality control order is opened immediately.

Automated document printing

Right-click menu > Layout

© 2026 Boyum IT Solutions A/S

Field	Meaning
Preview	Via preview the last printed document can be viewed and printed.
Layout	Opens the Macro window. If in this window a Macro named "default" is stored, it is printed automatically after the goods receipt has been finished. Usually, API "B1DocumentGenerate" is used to access the table "beas_document_header/beas_document_line". If you do not want to use this API, read the internal document number from variable "e_docentry".

Additional Macro parameters for document printing

e_cardcode	Business partner
e_docentry	Internal goods receipt document number (docentry)
e_itemcode	Item number
e_batchnum	Generated batch number
e_whscode	Warehouse
e_quantity	Quantity
e_remark	Note
e_qcorder	Quality control order

Manual document printing

For document printing a corresponding document must be deposited in the Macro settings. The name can be freely assigned.

After creating the goods receipt document, via preview or print icon the last created document can be printed.

Extended fields in purchase

The following fields are filled in SAP Business One – delivery note

Field	Description
Personnel	Personnel number (currently logged on in Terminal, WEB Apps or linked Personnel-SAP-User
Beas Version	Beas Versions used for the posting

© 2026 Boyum IT Solutions A/S

Origin	Origin type. For goods receipt via beas always "B"

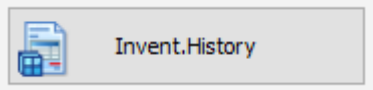
See

Provision parts

Configuration wizard - Quality control - Goods receipt

Configuration wizard - Materials management - Goods receipt

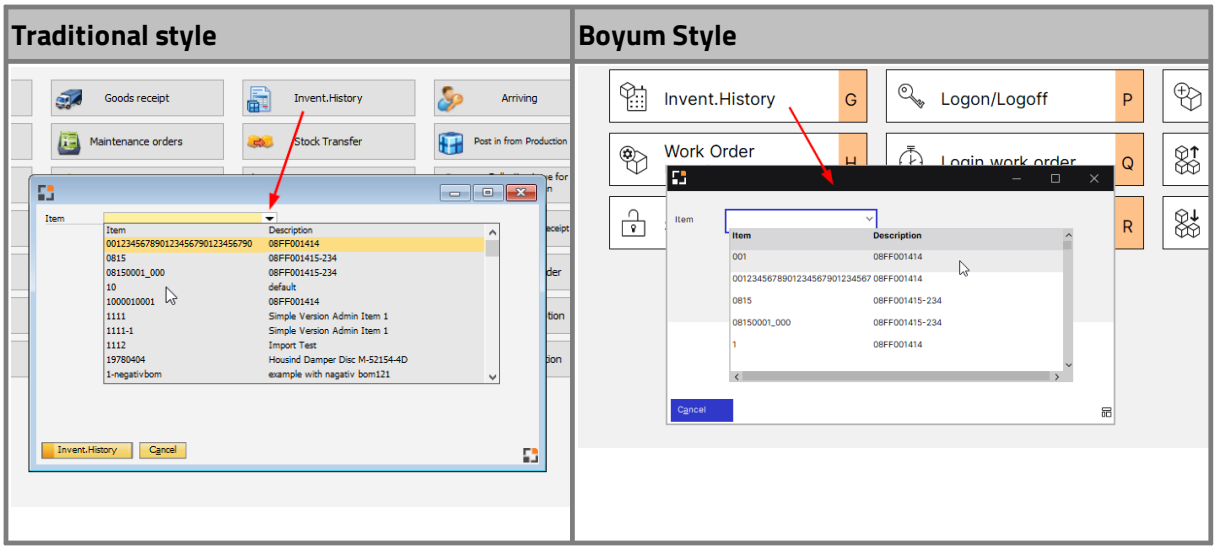
17.3.2.13 Invent.History



Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.

See Terminal settings in Configuration wizard.

Clicking on this app, a filtering window opens where you can select an item for viewing its inventory history.



The inventory history can be accessed from almost any location where items are shown.

For example:

PATH: Inventory > Item structure > Select an item > right-click > Invent.history

Tabs

Bin Location inventory

© 2026 Boyum IT Solutions A/S

By Warehouse No.

By Bin Location

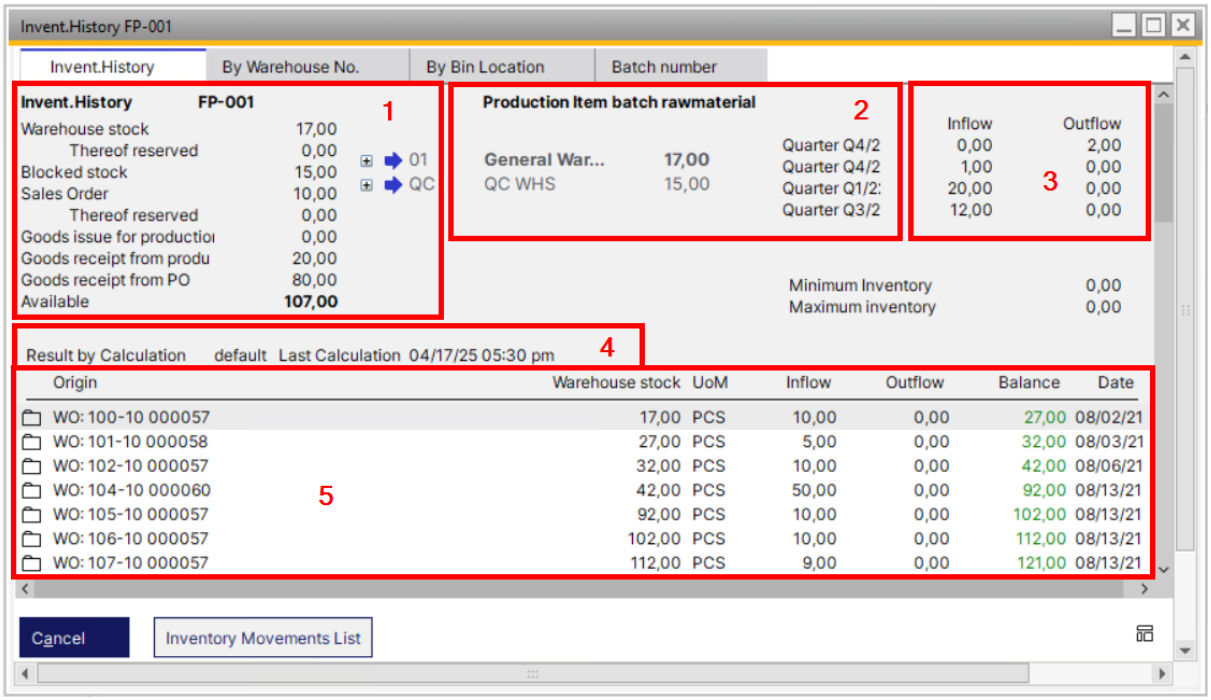
By Batch

By Serial

I-Version

Reservation list

Configuration of Inventory history



Window_artikel_teilekonto.psr

Current report	**1** Current stock – for batches and serial number in a structure view. Note: this area is not printed out if you print the view.	**3** Total of inflow and outflow without consideration of transactions.

© 2026 Boyum IT Solutions A/S

Contracts with Reservations for Purchased Assets		

© 2026 Boyum IT Solutions A/S

tscrbreakcovrdfcustcrerrcrdcers.Notrelate		

© 2026 Boyum IT Solutions A/S

Production order display area, the		

© 2026 Boyum IT Solutions A/S

rtstatusisoisplayed.		

4 Notes on MRP scenario in area **5**

Note: MRP results with Item versions are not displayed in this area.

5 MRP scenario: (planning view) Result of last MRP run, which has been defined as standard MRP run.

Important: It shows the moment of the calculation. Following the rules, which have been defined in MRP wizard, customer orders are broken down, forecasts are taken into account and other parameters have effect. The result has nothing to do with the current stock and status displayed in the upper area (**1**).

View the upper area for current actual stock.

- Field description current report of stock and reservations **(1)**

All Quantities in Inventory UoM

Field	Description
Warehouse stock	Inventory across ALL storage locations except blocked storage locations.
Thereof	Reserved goods of type "warehouse reservation" (Beas reservation system)

© 2026 Boyum IT Solutions A/S

Field	Description
reserved	**WMS integration:** This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Blocked stock	Total inventory of blocked batches or in blocked warehouses. If MRP wizard in stored Standard MRP run it was set up, that blocked batches are available, these will not be displayed here. If the option is disabled, blocked batches are displayed as usual blocked stock.
Sales order	Planned issue for customer orders and reserve invoices. Determined by SAP Business One *OITM.committed*
Thereof reserved	Reserved quantity for customer orders.
Goods issue for Production	Planned issue for production Planned quantity as per BoM, minus already posted quantity plus canceled quantity. Only work orders are considered which are visible, not completed and not blocked. Planned work orders are not considered. Note on post calculation: As reference serves the Total Quantity *BEAS_FTSTL.TOTALQUANTITY_WHSUNIT* less all already performed issues and receipts. For computation the SQL Procedure `beas_invhistory` is used. Blocked work orders *BEAS_FTHAUPT.SPERRUNG<>'I'* are considered if they are planned orders *BEAS_FTHAUPT.PLANNINGORDER=1* Planned quantity as per BOM, less already posted quantity plus canceled quantity. Only work orders are considered which are visible, not completed and not blocked. Planned work orders are not considered. Negative planned quantities are ignored. These are part of "goods receipt from production". If position is not closed and you post out more quantity than planned, it produces a negative quantity. ***Example***: Planned: 10, Post out 15 = -5

© 2026 Boyum IT Solutions A/S

Field	Description
Goods receipt from production	Planned receipt from production Summary of planned receipt from production minus already posted and manually reported quantities plus canceled postings. This is the sum of Production Positions and Bill of material positions with negative quantity. Only work orders are considered which are visible, not completed and not blocked. Planned work orders are not considered. If position is not closed and you post in more quantity than planned, it produces a negative quantity. ***Example***: Planned: 10, Post in 15 = -5
Goods receipt from PO	Planned receipt from purchase orders, determined by SAP Business One (Field "ordered". Use the MRP wizard to configure whether unreleased orders should be considered.
Available	Warehouse stock minus reservations plus planned receipt.

Functions

Function	Meaning
Print	Open printer selection to print the current view. Note: stock report (middle part) is not printed.
Inventory Movements List	Open Inventory Movements List.
Document open	Open the assigned document, which was marked in the lower list.

Window settings are available.

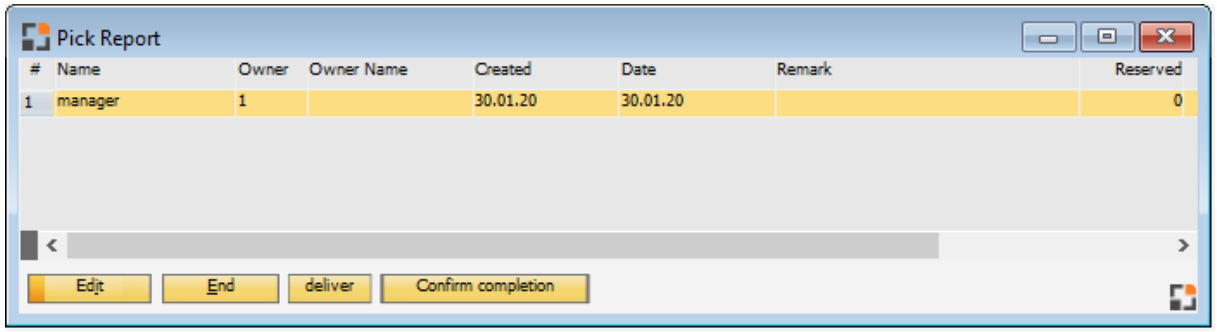
17.3.2.14 Picking List

Available with Issue, Receipt, Allocation for production, Pick and pack, Stock information license.

See Terminal settings in Configuration wizard.

With this app you can access released picking lists.

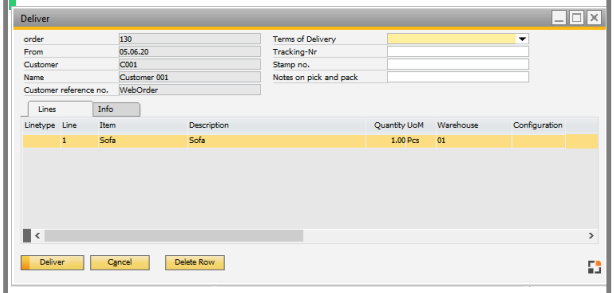
© 2026 Boyum IT Solutions A/S



Window pick_countchoose.psr

Attention: this app does not support serial-managed items.

Functions

Function	Description
Edit	Edit the picking list selected in the Pick Report.
Deliver	This button opens the delivery document linked from a sales order. In Sales order > right-click > "Deliver", you can deliver reserved items. Additional information for the delivery can be entered here, which will then be transferred to the subsequent document. PATH: Sales > Sales order > right-click on an item > "Deliver"  *Window shipping_delivery_header.psr* **Field** / **Description** Order: Order number From: Creation date Customer: Customer ID

© 2026 Boyum IT Solutions A/S

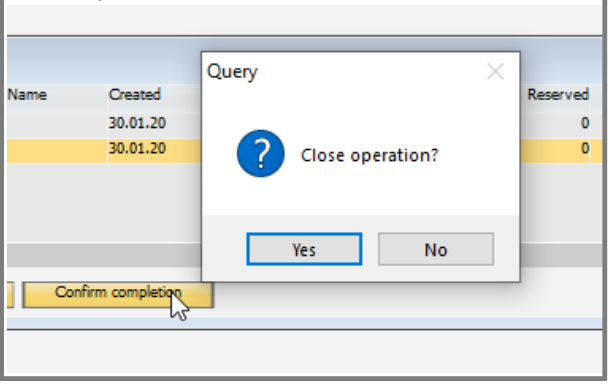
<table>
<tr><th>Function</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Name</td><td>Customer name</td></tr>
<tr><td>Customer reference no.</td><td>Customer reference</td></tr>
<tr><td>Terms of Delivery</td><td>Selection from stored conditions</td></tr>
<tr><td>Tracking Nr.</td><td>Tracking number for shipping</td></tr>
<tr><td>Stamp no.</td><td>Stamp number</td></tr>
<tr><td>Notes on pick and pack</td><td>Remarks for picking and packing can be entered here</td></tr>
</table>

The bottom view lists the items to be delivered for this shipment.
Additional remarks can be stored in the "Info tab".

Buttons
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Deliver</td><td>A Delivery note is created. The information entered here will be transferred there.</td></tr>
<tr><td>Cancel</td><td>Close the window without saving changes.</td></tr>
<tr><td>Delete row</td><td>Delete the selected row.</td></tr>
</table>

Limitations:
Preassigning quantities for batch/serial-managed items is not supported. We recommend using WebApp Pick Delivery for that purpose.
Reservations are not checked by the system.
No combination of several sales orders to one delivery note.
No SAP or WMS Bin support.
</td></tr>
</table>

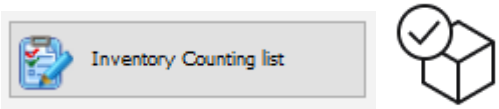
© 2026 Boyum IT Solutions A/S

Function	Description
	See: Quotation, Sales order Reservation list Reservation Cross reference
Confirm completion	With this button you can confirm the closing of the operation, which then disappears from the Pick Report. 

17.3.3 Inventory apps

This chapter includes apps to count inventory.

17.3.3.1 Inventory Counting list



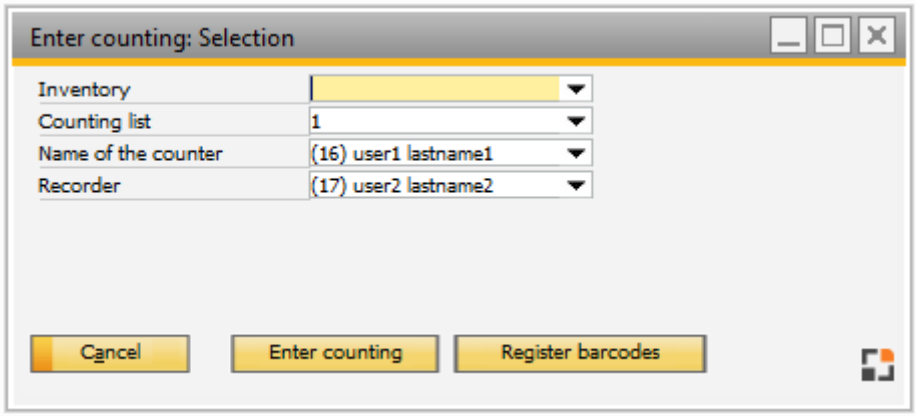
Available with Inventory license.

See Terminal settings in Configuration wizard.

This app opens the Enter counting: Selection window.
Selection window for counting lists entry. Via "Enter counting" inventory can be registered in a list. The entries are saved immediately, making possible a simultaneous registration by several employees. Next to stock other values as batch information or bin corrections can be registered. The count list is dynamically adjustable and supports templates. Depending on the kind of inventory, counting entry can be adjusted, for example "only counted" what means that the switch "counted"is activated, but no stock is entered.

© 2026 Boyum IT Solutions A/S

PATH: Inventory > Inventory transactions > Enter counting: selection.



Window mw_inventory_counting_choose.psr

Call up via Annual inventory, via Cycle Count Recommendations or via menu item "enter counting", it can also be included in the terminal screen. A reading access on inventory is required. When called up via the menu item "enter counting", the active inventory, the counter, typist and the count list need to be specified. If no count lists are defined, leave the "1".
If called directly from inventory, as user the person currently logged in will be used. All counting lists are displayed.

Button

Button	Meaning
Enter counting	Open Counting list.
Register barcodes	Open Bar code registration.

back to inventory.

17.3.4 Production apps

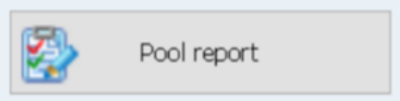
This chapter is dedicated to applications in the Production area in the Desktop Terminal.

Pool Report
Display documents
Allocation
Issue for Production
Post-in from Production
Quick Input

© 2026 Boyum IT Solutions A/S

Order Status
Work Order Backflushing booking
Collective issue for production
Production collective receipt
Production Time receipt
Login Interruption
Logoff interruption
WO Logon
WO Logoff

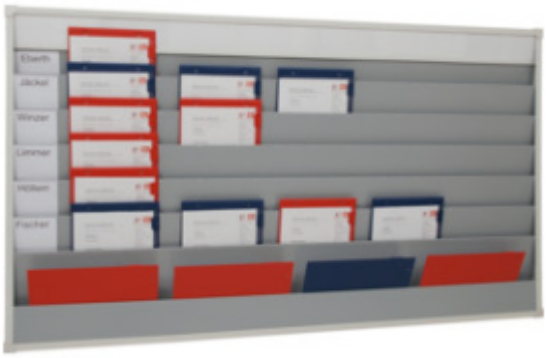
17.3.4.1 Pool Report



Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.
The pool report is only accessible via the Terminal application and WebApps Terminal 2.0.
See Terminal settings in Configuration wizard.

The idea and of the Pool report is to display the work for one worker for the next 1-2 days. The employee can easily see and check their work sequences for the upcoming short period. These tasks can also be logged in. The optional material availability check shows whether the required material is available, and only operations from the current pool are displayed (normal pool 1).

This is the same concept as a manual, paper-oriented planning board, but it is paperless and offers more functionality.

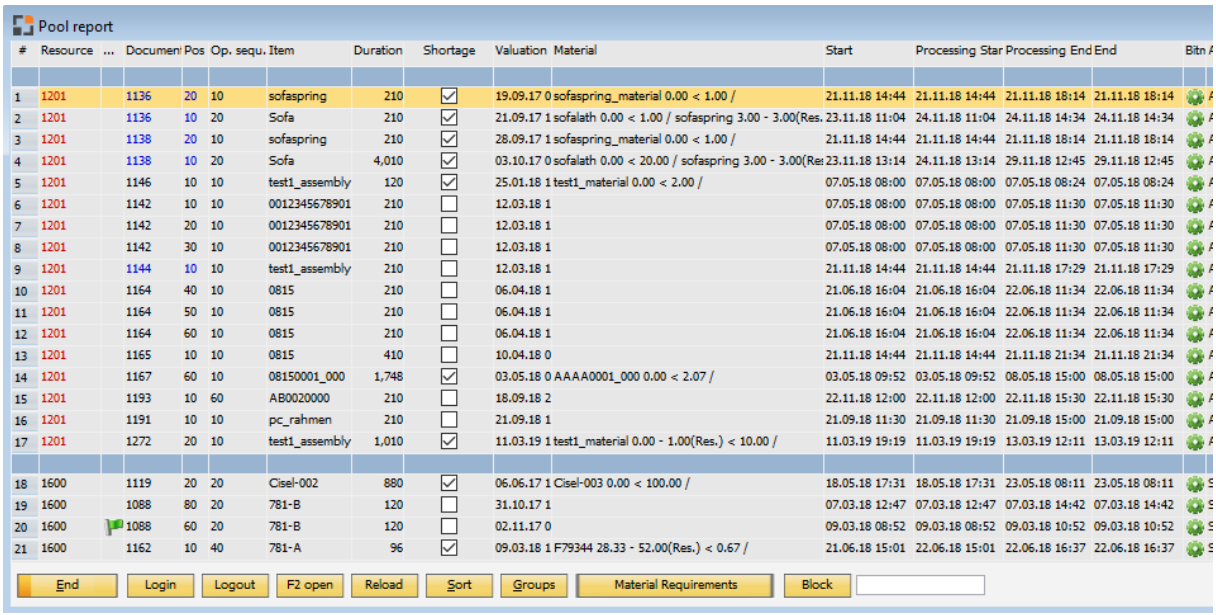


© 2026 Boyum IT Solutions A/S

NOTE:

Don't use the pool list for administration of the open routing position. For this the function Work list is available.

This window is dynamically adjustable; it displays order, size and the view of the fields can be changed. By using the lower input field or right-clicking in the title, you can filter and sort the list. Templates are supported. The list can be customized and saved per user.



Window bde_terminal_poolinfo

What can the Worker see?

- The list only shows resources which may be operated via terminal: Stations settings terminal .
- The employee may only log in to the resource stored in Personnel master **FDC tab > Resources**.
- Multiple log-on to several operations at once is possible if enabled in Configuration wizard (**direct logon / logoff**).
- Only the current Pool.
- Only if the Routing position is the first operation or if there is a time receipt for the preview routing position.

Default pool list sorting is done by resource and valuation date according to pool valuation. ***See*** Pool control.

IMPORTANT!

© 2026 Boyum IT Solutions A/S

The Pool list shows a section of the resources set in the Work Station Terminal and Personnel settings.

Examples:

Resources: A1, A2, B1 and all resources (%) or all resources starting with letter A and B (A%, B%)

- Work Station: A1 Personnel: A1 --> The Pool list is displayed.
- Work Station: A1 Personnel: A2 --> The Pool list is NOT displayed because the Station can only show A1 but the person is only allowed to see A2.
- Work Station: A% Personnel: A1 --> The Pool list is displayed because the station can show all (%) resources that start with the letter "A".
- Work Station: A, % Personnel: B1 --> The Pool list is displayed because the station allows all, as for second a resource "%" is defined.
- Work Station: B% Personnel: A1 --> The Pool list is NOT displayed because the station can only show show resources starting with B.
- Work Station: B% Personnel: A1, % --> The Pool list is displayed. Person has main resource A1 but with % in second Personnel resource setting is allowed to see all.

See VIDEO:

Performance ⚠

Using the pool list as an "administration list" to display the work of all workers – that is planning the entire work list of all workers – results in severe performance issues.

As displaying the pool list is highly CPU-intensive, this incorrect utilization of the list can slow down processing significantly.

In Beas 9.3 PL 3 we delivered a Work list for administration purposes.

What to do if Performance is not optimal.

Functions for the correct usage:

Duration: If the time to open the list takes more than 5 seconds, we display information on how to use the list correctly with Link to the documentation.

If opening the list takes too much time, you can see a warning message (***see*** below), recommending the deactivation of material check in the Configuration wizard.

If you do not want to see it again, click on "do not show anymore". If you want to see more information: Click on "** documentation **".

© 2026 Boyum IT Solutions A/S

beas 9.3 PL 2 HF 2

Optimize performance

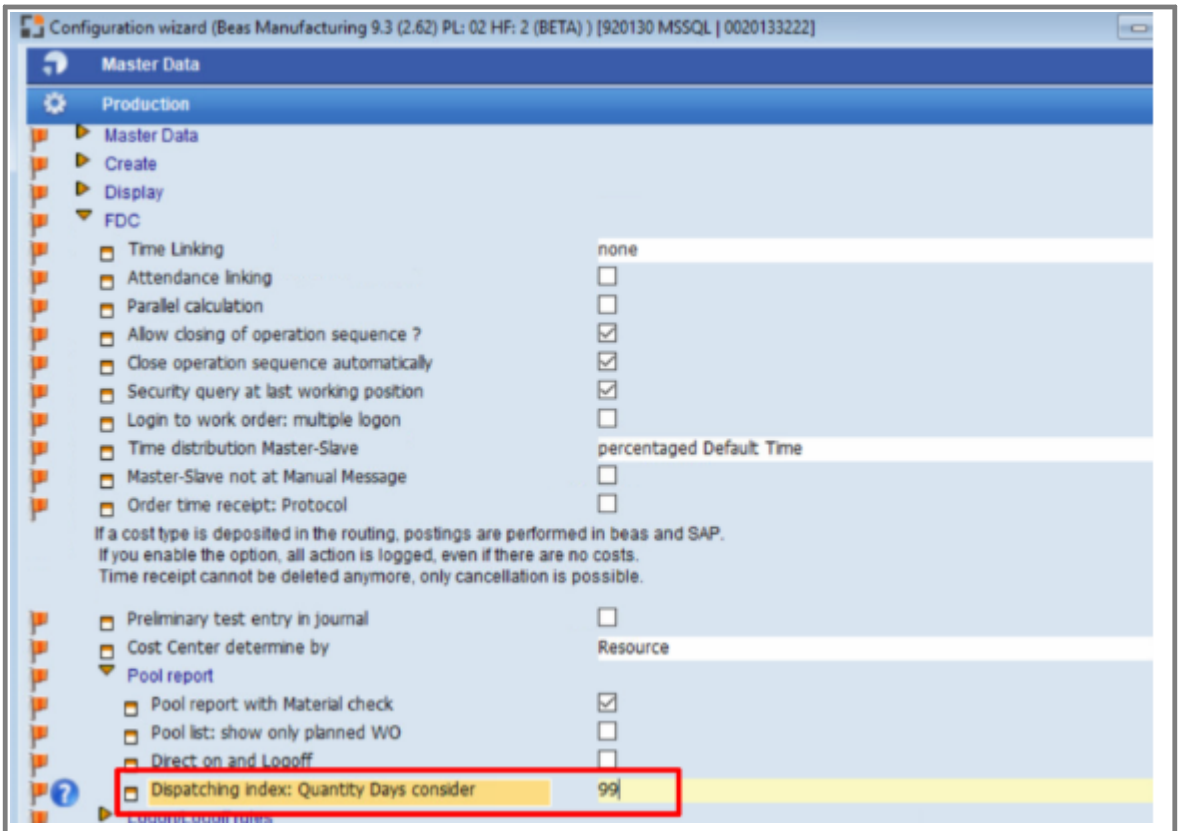
1. Disable Pool Report -> with Material check, because the online Material check takes too much time.
2. Reduce days of "Dispatching index: Quantity days consider".

If you reduce this to example 2, you can see only routing positions with Start date in the past or next 2 calendar days.

Important:

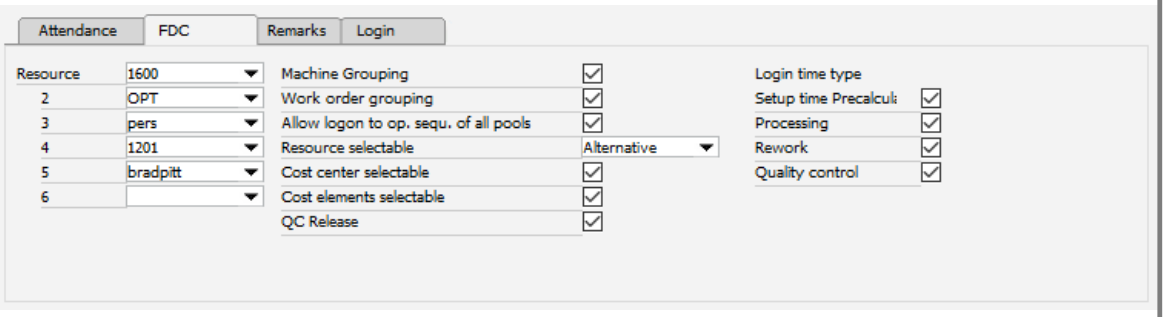
If you do not work with APS forward calculation (APS license required), changing the setting "Dispatching Index" can cause a risk, as the date/time may be wrong inside the start date field of the routing position.

© 2026 Boyum IT Solutions A/S



beas 9.3 PL 2 HF 2

3. Personnel – Master data



Only define the resource with which the worker has to work. Do not work with * or %.

Field descriptions

Field	Meaning
Resource	Resource.
...	Green flag: Order has been registered by the person currently logged on. Orange flag: Order has been registered by someone else.

© 2026 Boyum IT Solutions A/S

	No flag: Order not registered. Red hand: interruption has been reported for this resource.
Document	Work order document number.
Pos	Position in work order.
Operation	Operation number.
Pos2	Position of parallel resource.
Item	Item designation.
Duration	Total duration without consideration of already reported times.
Quantity	Total reported quantity in consumption units of the assembly (not time receipt unit).
Quantity already reported	Reported quantity in consumption units of the assembly (not time receipt unit).
Shortage	Check mark shows if there is a shortage of material.
Start	Start date/time of operation.
Processing start	Start date/time of processing.
Processing end	End date/time of processing.
End	End date/time of operation.
Valued start	Valued start time. Calculated by pool calculation function. The date determines the order in pool list. ***See*** Introduction Pool control.
Activity	Description of activity (operation).
Material	Used material.
Assembly – Match code	Match code of the assembly.
Assembly – Designation	Designation of assembly.
Assembly – Group	If assembly was assigned to a group .
Production – Delivery	Delivery address.

Button

Field	Meaning

© 2026 Boyum IT Solutions A/S

F2 open	Open operation to start work. There, you can log on or log off the operation post material. ***See*** Edit operation in pool list.
Login	Only displayed if you enable: **Configuration wizard > Production > FDC > Pool report > "Direct logon logoff"**. All marked operations can be logged on at once.
Logout	***See*** above.
Refresh Window	Update the list. If another employee has started or completed an order in the meantime, this will be displayed after refresh.
Sort	(Right-click in the respective field) A sorting is performed by: resource and work order start date, work order, item.
Group	Displays resources in groups.
Material requirement	Open material requirement list. Available only with the respective authorizations. ***See*** Personnel – Editing rights – Extended.
Block	The selected order is blocked, and removed from the pool list. Available only with the respective authorizations. ***See*** Personnel – Editing rights – Extended.

see

Pool control

Pool structure report

Capacity planning

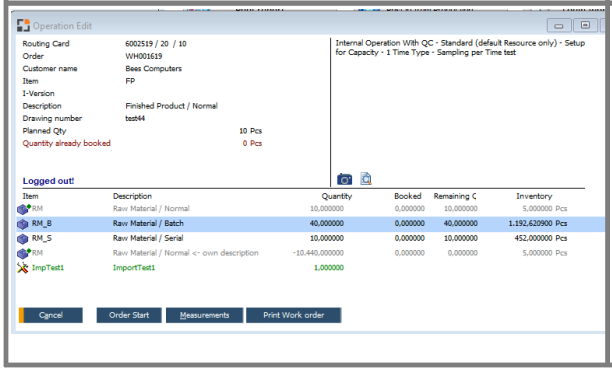
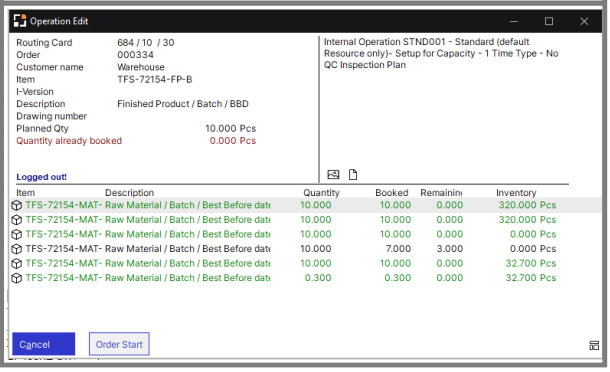
Priorities

17.3.4.1.1 Edit operation in pool list

Using the Pool list the window "Edit operation in pool list" can be called up.

PATH: Production > Factory Data Capture > Terminal > "Pool Report" app > double-click an entry / **F2 open**.

© 2026 Boyum IT Solutions A/S

Traditional Style	Boyum Style
	

Window fert_afo_anmelden.psr

Here, you have the following possibilities:

- Logon/Logoff operation
- Issue material
- View activities and stored images

Activities / Images

Right above the activity is displayed (Operation - activity description). Click the photo icon / to display images stored in

a) Operation

b) Item master

c) Resource

d) Tool

Click on the / symbol and the Instructions dialog window opens. Add instructions to the work order here.

Material list

In the lower part, the material requirement list is displayed.

Field	Meaning
Item	Item ID
Description	Item description
Quantity	Planned quantity for the Work order

© 2026 Boyum IT Solutions A/S

Booked	Already posted for this work order
Remaining quantity	Remaining quantity yet to produce
Inventory	Total item inventory (from warehouse) defined in the BoM position. Batch managed items: only non-locked batches. Limitation: Item Versions and reservations are not supported.

All quantities are displayed in consumption units.

COLOR CODE	Meaning
Gray	Not belonging to the selected operation or posted automatically
Green	Booked
Black	Part of the selected operation
Green point top right of the icon	Material positions posted automatically or backflushed.

Button

Field	Meaning
F2 Issue	Issue the currently selected position. Only possible if the selected line is not grey. The "material issue screen" is called up.
F3 Confirm	Visible only if the operation is logged on. Then you can insert all relevant information to log off the operation in the Time receipt window which opens.
Order start	The order is started. Visible only if the order was not started before. The window "Order logon" is opened.
Measures	Visible only if behind the selected operation a QC-order was stored. Measurement position can be registered. The window "QC-order" is opened. NOTE: With more than 1 measurement position, only the first is opened with this button. If you wish to have a different system behavior for this function, implement BeasScript.
Print	Print the current view or Macro selection, if stored.

© 2026 Boyum IT Solutions A/S

17.3.4.2 Activity

Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

The activity report provides a list of Time Receipts for the person that is logged in.

Edit existing and add new time receipts in this browse window.

For field descriptions ***see*** Time Receipts .

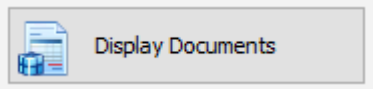
See Terminal settings in Configuration wizard.

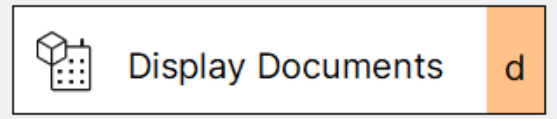
Buttons:

Button	Description
Search	This button opens a filtering pop-up window to search for activities of the logged in person by: - order - resource - reason - project - document
Edit	Edit the Time Receipts of the selected activity.
End	Closes the app.
New	Opens the Time Receipts window for a new activity.
Delete	Delete the selected Time Receipt.
Back	When clicking this button, the activity report list displays the activities for the previous day. The actual date is indicated in the top window bar.
Today	Displays the list of activities for the current date.
forward	When clicking this button, the activity report list displays the activities for the next day. The actual date is indicated in the top window bar.
Date	Opens the Query window to add a date of your choice. The activity report, then, lists the time receipts for the selected date.

© 2026 Boyum IT Solutions A/S

17.3.4.3 Display Documents



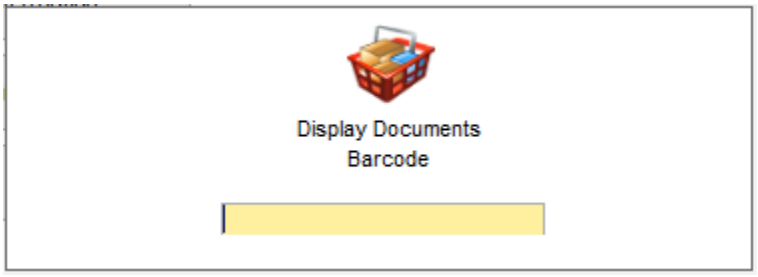


Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

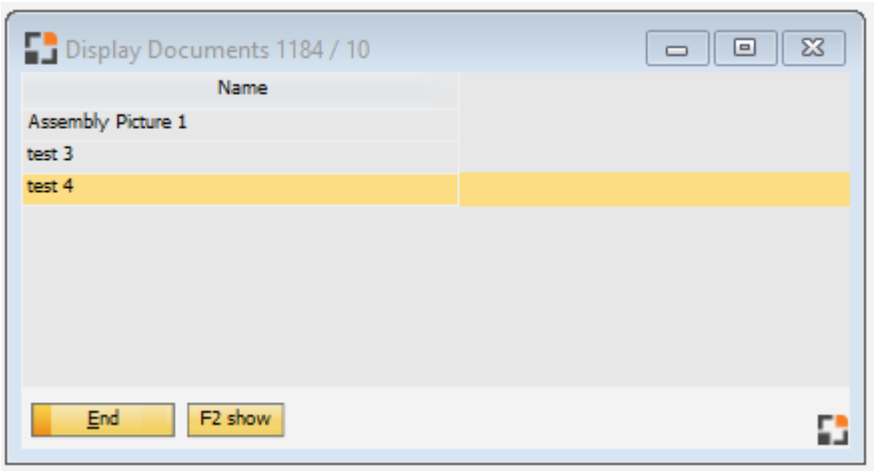
See Terminal settings in Configuration wizard.

With this app you can display attachments that were linked to a Work order position.

1. A window pops up to enter the Bar code of the WO position.



2. After entering the Bar code, you can see the number of the WO position in the top bar after the "Display Documents" caption.

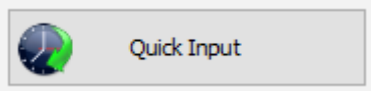


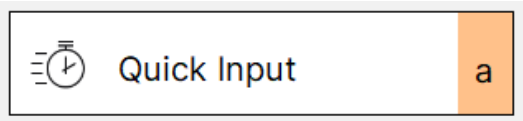
3. Click **F2 show** and the browse window for Documents opens.

See WO document attachments

© 2026 Boyum IT Solutions A/S

17.3.4.4 Quick Input





Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

This app opens the Quick Input tab of the Production Time Administration window in a separate window.

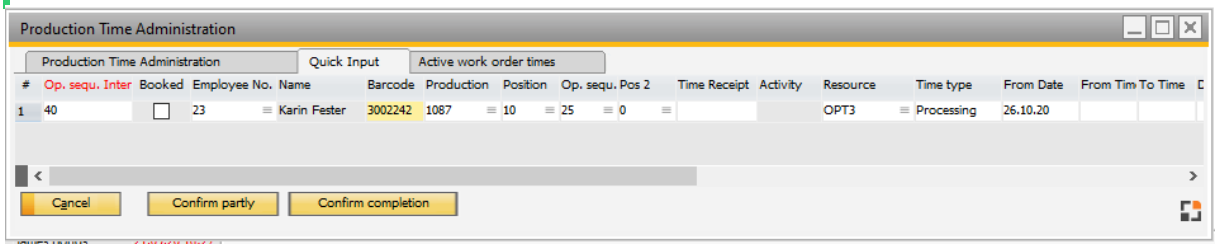
The Quick Input tab is used to report several time receipts in a list form.

All fields available at the time receipt are also available in quick input but in a grid format. Each row is a time receipt and the columns are the fields.

For field descriptions ***see*** Production Time Receipt.

Several lines can be added with the required information and then the information is added to the database when the confirmation buttons are used.

PATH: Production > Factory Data Capture > Production Time Administration > "Quick Input" tab.



Window fert_arbzeit_schnellerfassung.psr

Button	Description
Cancel	Closes the window without any action.
Add	Adds a new line.
Delete	Removes the selected line from the list.
Confirm partly	Part confirmation for all entered operations or complete confirmation if in the Close column a check mark was set.
Confirm completion	All operations on the provided list are posted and closed.

Important: Parallel calculations and the automatic division of the reported times to resources

© 2026 Boyum IT Solutions A/S

does not work from this window. The time receipt must be created in the terminal. This setting is available in **Configuration Wizard > Production > FDC > Parallel calculation**.

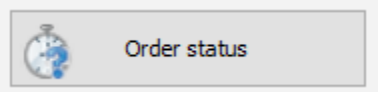
Field	Description
Booked	Check mark is displayed when booked.
Pers.No.	Employee number of person reporting the time receipt (setup in **Attendance > Personnel**).
Name	Name of the employee.
Default branch	Default branch of the item.
Barcode	Bar code printed on the work order document (***see*** **Routing > position > extended > Barcode**).
Production	Work order number.
Document	Work order of the previously selected document.
Position	Position of the work order document.
Op. sequ.	Operation to be reported.
Pos 2	Parallel resources of the operation (previously resource pos).
Activity	Reported activity.
Resource	Resource Pre-assign a resource stored in the operation. Use right-click to select resources available for this employee. Any resource can be entered manually, resource groups are not allowed and therefore not selectable. ***See*** Resource rule Personnel Resources Resources
Cost type	Cost type on which costs are to be booked.
Cost center	Cost center to be charged (Business performance).
Time type	Time type In the resource up to 4 time types can be stored. With right-click the time type can be selected.After selection, it is checked, whether the

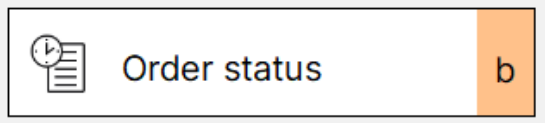
© 2026 Boyum IT Solutions A/S

	time type is allowed for the current resource. If not, the default type is inserted. For more information ***see*** Time type *beas9.0-004-000-000*
From Date	Start date.
To Date	Date of valuation.
From time	Start time.
To time	End time.
Duration	Duration of work order time. Can be changed after calculation.
External price	External price.
Valuation date	Valuate to the specified.
Closed	Shows if the operation closed.
Quantity yield	Produced quantity that is free from defects.
Quantity yield RE	Entry quantity in entry units, defined in operation. ***See*** Production – Routing – Extended – Time receipt unit.
Scrap	Scrap quantity in reporting units.
Unit	Quantity unit.
Item	Item number.
Information	Additional information.
Drawing number	Optional field.

back to production times administration

17.3.4.5 Order Status



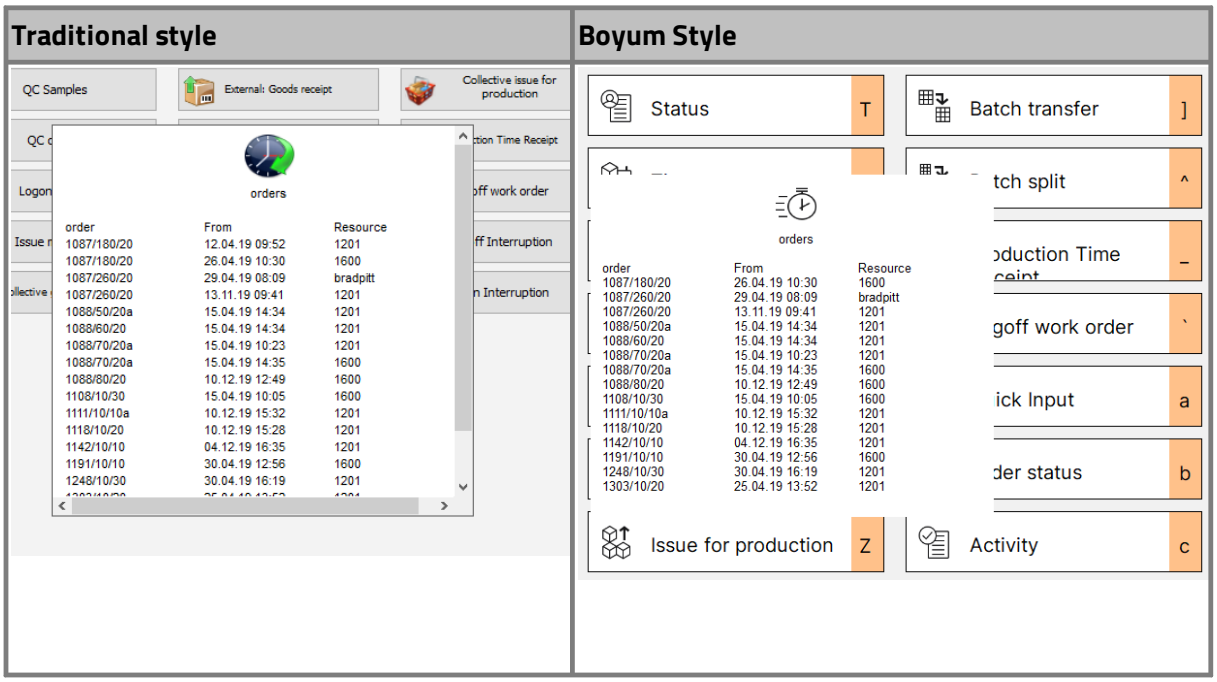


Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

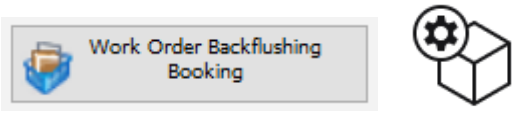
See Terminal settings in Configuration wizard.

© 2026 Boyum IT Solutions A/S

With this app you can display a brief status report on ongoing Work orders.
It lists the logged in Work order positions with the starting time and the Resource (***see*** image below).
The status report is displayed in a pop-up window that is not editable, and disappears after a few seconds.



17.3.4.6 Work Order Backflushing booking

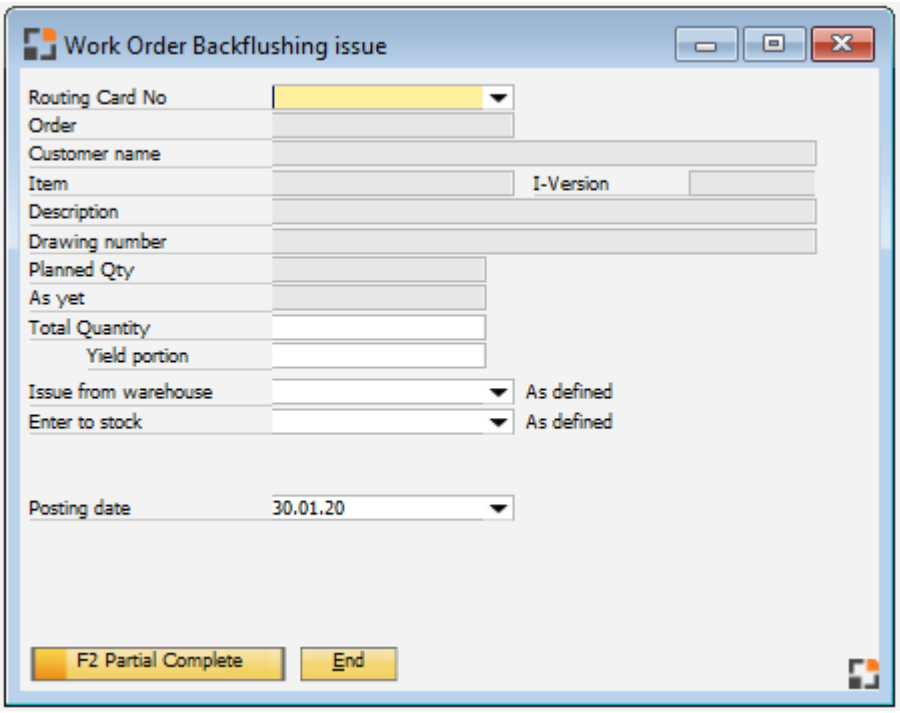


Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

Clicking on this app will open the Work Order Backflushing issue window.

© 2026 Boyum IT Solutions A/S



Window fert_retrograd_abbuchen.psr

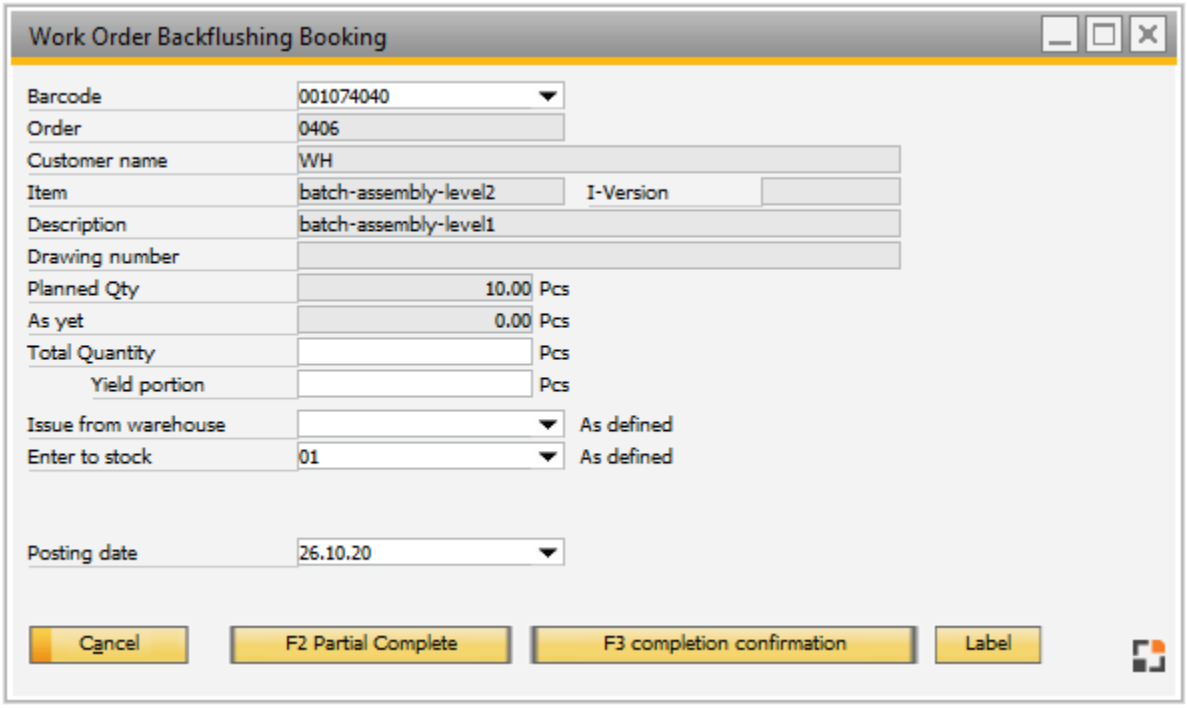
With this function you can create a receipt for the finished goods item and backflush all necessary materials.

For this you only need:

- Bar code of the work order position
- Quantity

PATH: Production > Factory data capture > Work Order Backflushing Booking

© 2026 Boyum IT Solutions A/S



fert_retrograd_abbuchen

Backflushing is used to automatically remove material that is allocated to a work order and is marked as "backflush". The work order is selected for this (alternatively, the routing slip bar code can be scanned). Then, you specify the total quantity to be reported and the yield to be received. After inputting the number of units, the corresponding quantity of materials is issued and the finished good is entered.
The material is issued from the inventory location stored in the BoM and the primary item inventory, respectively. If an inventory location is specified for "Issue from storage location", the material is posted from this inventory location.

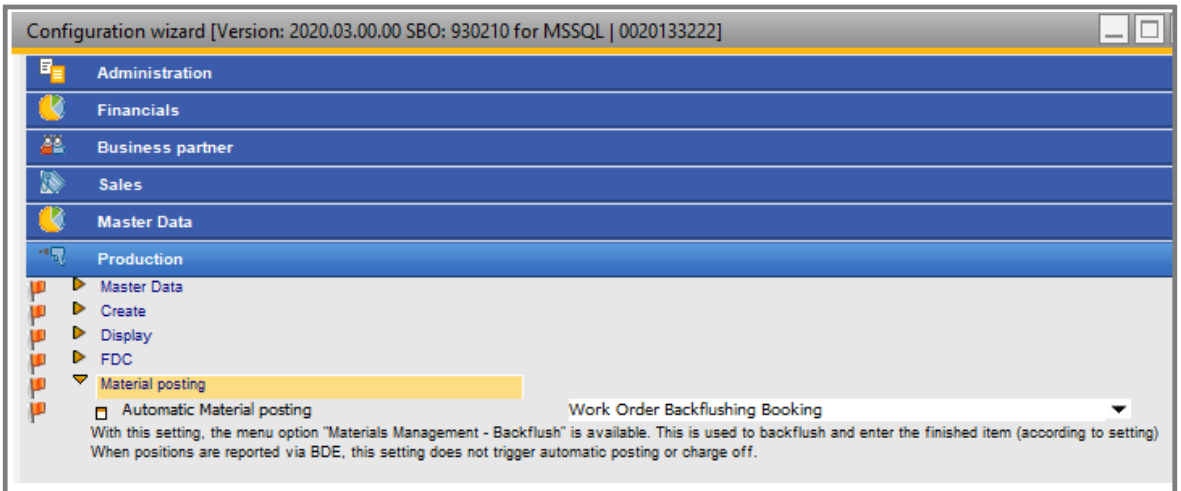
WMS Integration: Produmex WMS Batch attributes are supported.

You can use this window only if this window is activated in the Configuration wizard.

- Setup

  In the Configuration wizard you must activate **Production > Material posting**: **Work Order Backflushing Booking**

© 2026 Boyum IT Solutions A/S



Note:

It is not possible to use this window in parallel to the backflushing functionality on the last/first routing position!

In **Configuration Wizard > Production > Material posting > Backflushing** you can define all additional Backflushing options.

The "Exceeding planned quantity allowed" Configuration parameter affects WO material backflushing: Minimum/Maximum values are related to receipt quantity.

Setup: Configuration > Production > Work Order Backflushing Booking

These settings affect the following functions:

- Desktop version Work order backflushing
- WebApp WO Backflushing
- Manual receipt window.

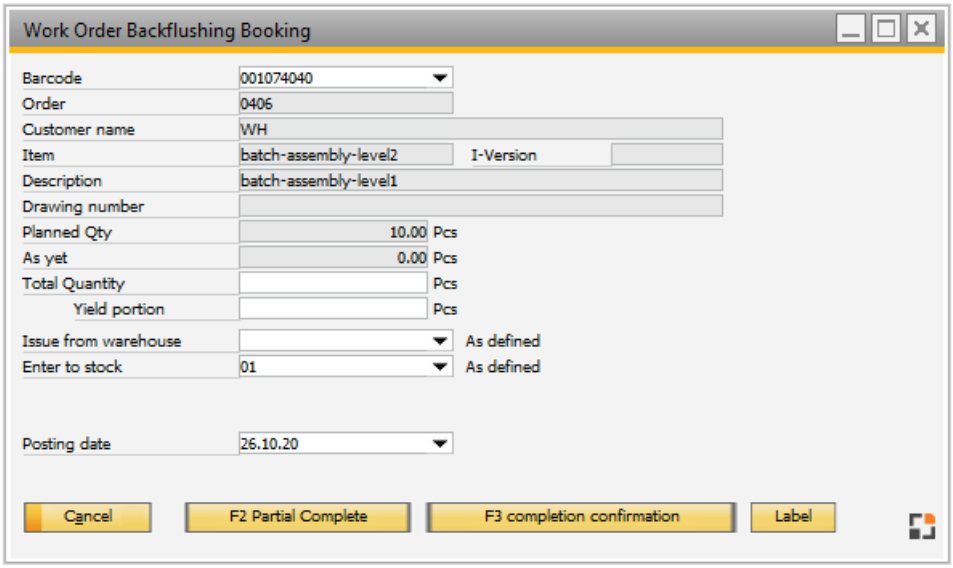
They are visible only if in Configuration wizard > Production > Material posting > Material posting automatically at "Work order backflushing" was selected.

PATH: Administration > System Initialization > Configuration wizard > Production.

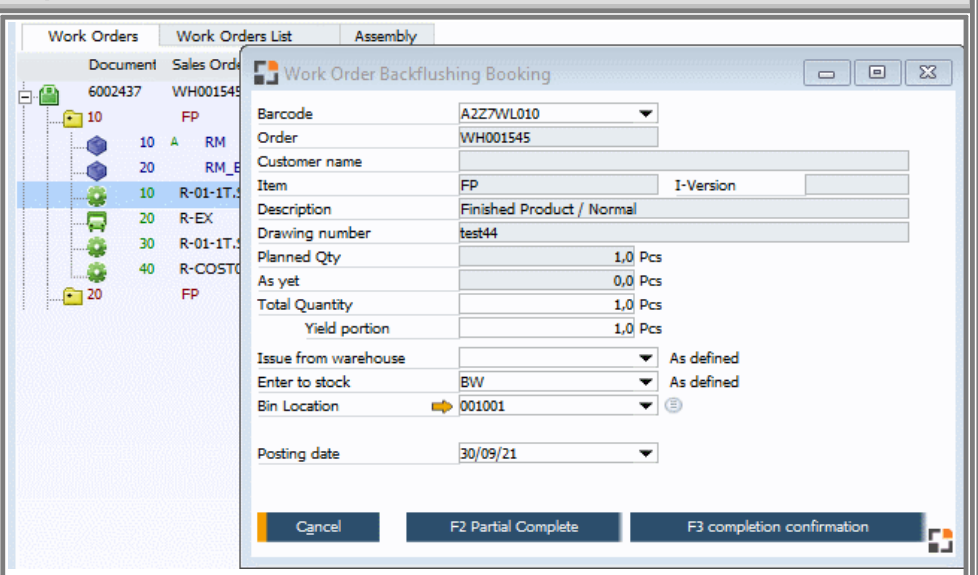
Parameters

Name	Description
Selection warehouse location	Activate the warehouse fields for issue and receipt process in backflush window Standard: use default warehouse defined in work order or in issue process

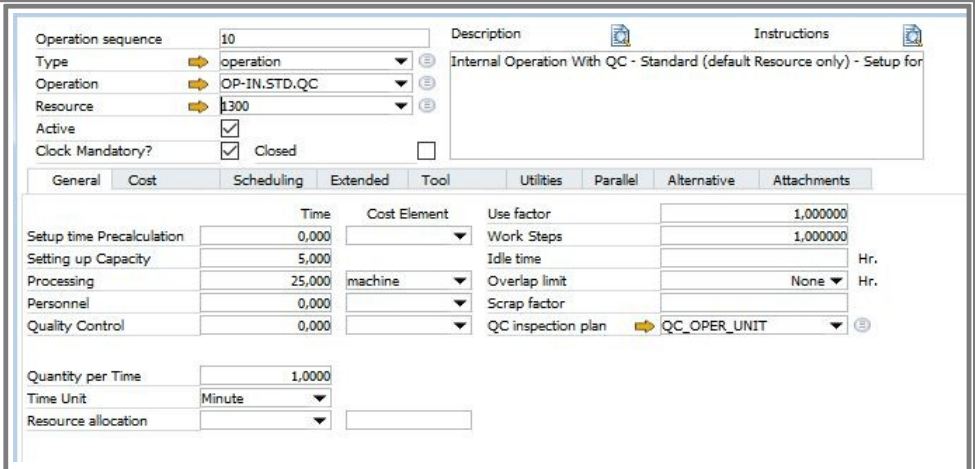
© 2026 Boyum IT Solutions A/S

Name	Description
issue Selection warehouse location at receipt	related to issue rules. If you activate this setting, the user as additional fields: "Issue from warehouse" and "Enter to stock"  Note for receipt: If the receipt warehouse is changed, problems may arise with the WIP account. That is why this option should not be activated when working with different warehouse-dependent WIP accounts.
Book times automatically	When active, planned times are reported as actual times confirming the last position. If this option is activated, the times are also automatically booked in the backflushing process.

© 2026 Boyum IT Solutions A/S

Name	Description
	 This function is available in Work order backflushing WebApp WO Backflushing Manual receipt for work order (only if ".. to employee" is defined !) It creates time receipts for the following routing position: - Clock mandatory is activated - Routing position is active - Duration time is defined - Routing position - Extended - "Block login" is disabled. **The default time is computed as follows:** First confirmation: `(planned processing time per unit * reported quantity) + setup time` Second confirmation: `(planned processing time per unit * reported quantity)`

© 2026 Boyum IT Solutions A/S

Name	Description
	 Setup Time: field "`Setting up Capacity`" Planned processing time: field "`Processing`" For correct calculation, the system checks Quantity per, Time Unit, Use factor and Work steps. "`Personnel`", "`Quality Control`" Parallel resources are supported. Fix times (Quantity per time=-1): The system calculates `Processing time / reported quantity` Only Cost type for processing is supported. Master Slave settings are ignored. The system creates the time receipt for all routing positions. Quality control orders in Routing positions are supported. Start/End Date for time receipt is Current or the Date defined in the receipt/backflushing window. Employee in time receipts is the currently logged in employee. For more information ***see*** setting "..to employee no" below. **ALTERNATIVE METHOD** As an alternative, use the option in **Configuration wizard > Calculation > Post-calculation > "Plan=Actual if no time receipts"**, or use the valuation method in **Configuration wizard > Production > Valuation and Posting of assembly - Valuation -** planned costs.
... To	Only displayed if option above "Enter times automatically" was enabled.

© 2026 Boyum IT Solutions A/S

Name	Description
employee no	Define t the employee number can be entered here for automated booking, if no employee is connected. **Terminal / WEB APP**: The system use always the current logged in Employee and ignore this setting **Beas Desktop**: If an Employee is linked to current use, it use the linked Employee, otherwise this setting.

see Material posting, backflushing

- Partial posting or final posting

The posting process without closing the WO is done via button "Partial posting" or clicking on F2.
The posting process with closing the WO position or WO is done via button "Final posting" or clicking on F3.

Completion confirmation – Button only visible if
a) There are no uncleared time records.
b) It is not about an overhead costs-order (definable in production type).
c) **Configuration wizard > Production > Valuation and posting of the assembly > Post finished parts when** is not set to manually.
d) The variable "lb_cannotclose" is not set to 1 in windowevent "cancloseorder".

Example script: General hide of button "Completion confirmation"

```
windowevent cancloseorder
setvar=lb_cannotclose=1
end event
```

- Automatic Pre-allocation

For items, set to "backflushing", quantities to be posted are automatically pre-allocated. Other entries are not pre-allocated.

Batches and serial numbers are only pre-allocated automatically, if in **Configuration wizard > Production > Material posting and reservation > Backflushing > "Post batches also" or "Post serial numbers"** has been enabled. Click on "pre-allocate" to pre-allocate batches or serial numbers manually. If batches or serial numbers has been reserved, independent of settings,

© 2026 Boyum IT Solutions A/S

these are always pre-allocated automatically.

Order of withdrawal is defined as:

1. Reserved goods
2. Allocation warehouse
3. Standard warehouse (as per BOM item or standard warehouse of item)
4. BoM definition, Bin location (when bin location is defined)
5. Within this order the withdrawal rules from **Configuration wizard > Production > Material posting and reservation > "Automatic batch issue by ..."** apply.

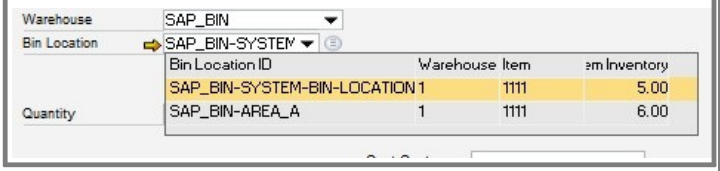
All other warehouses are not considered, but you can withdraw manually from these warehouses.

- Field description

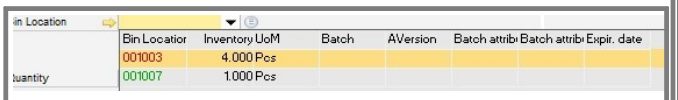
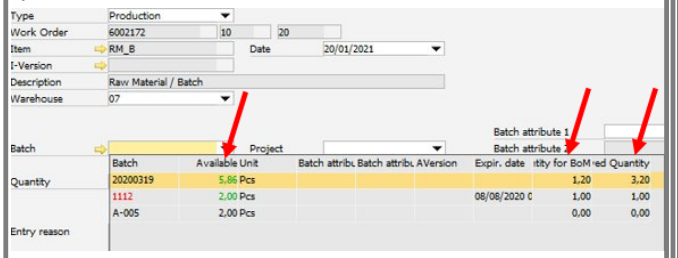
This window can be accessed from the menu as well as from the terminal.

Field	Meaning
Bar code	Drop-down selection. Displayed: routing card no, bar code, order, item, item description, customer name.
Order	Order number from Work order.
Customer name	Customer name.
Item	Item.
I-Version	Item version (with activated item version control).
Description	Free Text.
Drawing number	Drawing number.
Planned Qty	Planned Qty from work order. Display in Inventory UoM.
As yet	Confirmed until now. Entry in Inventory UoM.
Total Qty	Total reported qty of the current time receipt.
Yield portion	Yield portion of the total reported quantity.
Issue from warehouse	- From which warehouse to issue. This field is only displayed if activated in **Configuration wizard - Production > production backflushing > Warehouse selection for issue**

© 2026 Boyum IT Solutions A/S

Field	Meaning
	If active, this warehouse is used for issue. This has a higher priority than the default warehouse in BoM.
Enter to stock	Receipt the assembly to which warehouse This field is only displayed if activated in **Configuration wizard > Production > production backflushing > Warehouse selection for issue** By default, the assembly is posted to the warehouse, given in work order item. ***See*** Warehouse rules. NOTE: Changing this warehouse with warehouse depending account determination active can lead to differences on the WIP account.
Bin Location	Define target Bin location Only visible if the receipt warehouse is a bin managed warehouse. Here you can define the bin location for the assembly. ***See*** Warehouse rules. Beas supports WMS, Beas, and SAP Business One Bin Management (Beas 9.3 PL3) The field has the following components: **Arrow icon** / List of all bins where the item is located. **Selection (Drop-down)** A list opens to select the desired bin location. 

© 2026 Boyum IT Solutions A/S

Field	Meaning
	The selected drop-down option displays the following information in receipt documents: • Bin Location • Warehouse Area • First item in this bin location • Stock of the first item in this bin location The list can be modified in the Configuration wizard. **The selected drop-down option displays the following information in issue documents:** • All stock information of all bin locations with batch- and serial number information. • ⊟ Reserved Batch quantities information  The drop-down contains information on reserved quantities in 3 columns:  The batch entry in the list is displayed in RED color if the Batch is not free. **Quantity-related information:** **Field** / **Description** Available / Available quantity is = Inventory - reserved quantity + reserved quantity for current work order position. This quantity is displayed in GREEN, if

© 2026 Boyum IT Solutions A/S

Field	Meaning
	<table><tr><th>Field</th><th>Description</th></tr><tr><td></td><td>quantity is reserved for the currently used Bill of Materials position. **WMS integration:** Goods issue > This field also considers all units available for WMS lock types Batch, LUID and Detail.</td></tr><tr><td>Reserved for BoM</td><td>Reserved Quantity for this BoM Position</td></tr><tr><td>Reserved Quantity</td><td>Total reserved Quantity **WMS integration:** Goods issue > This field also considers all WMS reservations for locking types Batch, LUID and Detail.</td></tr><tr><td>Inventory</td><td>Stock batch quantity in the bin location.</td></tr></table> **Select or List - Icon** By using the selection icon, an adjustable selection list opens. Window settings and templates are supported. Notes: Beas Bin Warehouse The Definition of the bin location is mandatory. Notes: SBO Bin Warehouse If the bin location is not defined, Beas uses the default bin location for this item for the specified transaction type. This is entirely managed by SAP Business One. Drop-down for volume or weight is not supported. Columns are always 0. *beas 9.3 PL 2* Notes: WMS Bin Warehouse Bin location is mandatory.

© 2026 Boyum IT Solutions A/S

Field	Meaning

	Drop-down for volume and weight not supported.
	Customizing of the drop-down list in Beas 9.3 PL 2 or newer release
	This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.
	
	The following priorities are considered:
	1. Window-related customization (`windowevent setbindropown`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	In the `e_bindropdownbsl` variable, the ODATA command can be defined.
	It is beneficial to use the Beas service layer, because Beas supports different warehouse systems that use different tables and logic.
	
	The standard functions for receipt and issue are as folows:
	`file stockmanagement.src`
	
	`function binreceiptdropdown`
	`setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bsl>)?$mask=1`
	`end function`
	
	`function binissuedropdown`
	`setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode,bsl>)?$select=BinLocation/BinCode,BinLocation/BinColor,OnHand,UoMCode,Batch,IVersionId,BatchAttribute1,BatchAttribute2,ExpirationDate&$filter=ItemCode eq <e_itemcode,bsl> and OnHand gt 0`
	`end function`
	
	For receipt, use BinLocation.
	For issue, use WareHouseStock.

© 2026 Boyum IT Solutions A/S

Field	Meaning

	For more information, ***see*** Beas Service Layer documentation.
	
	Example
	-- file stockmanagement.src --
	
	`// BinReceipt: Show all Bin Locations, ordered by OnHand descending, BinCode ascending:`
	`function binreceiptdropdown`
	`setvar=e_bindropdownbsl=BinLocation(<e_binwhscode,bsl>)?$select=BinLocation/BinCode,BinLocation/BinColor,OnHand&$orderby=OnHand desc,BinLocation/BinCode asc`
	`end function`
	
	`// BinIssue: Show only Bin Locations where OnHand > 0 of the selected ItemCode, ordered by OnHand descending, BinCode ascending:`
	`function binissuedropdown`
	`setvar=e_bindropdownbsl=WareHouseStock(<e_binwhscode,bsl>)?$select=BinLocation/BinCode,BinLocation/BinColor,OnHand,UoMCode,Batch&$filter=ItemCode eq <e_itemcode,bsl> and OnHand gt 0&$orderby=OnHand desc, BinLocation/BinCode asc`
	`end function`
	
	Customization of the drop-down list in Beas 9.3 PL 1 or earlier release
	
	Attention: This is available only up to Beas 9.3 PL 1 – in maintenance.
	
	This list can be modified in the Configuration Wizard. General manipulation is possible using the `stockmanagement.src` file or window-related changes using Windowevent `setbindropdown`.
	
	The following priorities are considered:
	1. Window-related customization (`windowevent`)
	2. General changes (`stockmanagement.src`)
	3. Settings in the Configuration wizard
	
	Window-specific adjustments:

© 2026 Boyum IT Solutions A/S

Field	Meaning

	Call the `setbindropdown` user event. The `dropdown:bin_from` variable can be defined.
	
	Example:
	`windowevent setbindropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE"`
	`from "BEAS_WHSBIN" where`
	`"WhsCode"=<e_binwhscode,dbstring> order by`
	`"STORAGESORT"`
	`end event`
	
	Note: This window event is supported in every window where the selection field is available.
	
	General adjustment
	Use the `stockmanagement:binreceiptdropdown()` function to store a custom drop-down configuration.
	
	`file stockmanagement.src`
	`function binreceiptdropdown`
	`setvar=e_bindropdown=ddsql=select "BINCODE"`
	`from "BEAS_WHSBIN" where`
	`"WhsCode"=<e_binwhscode,dbstring> order by`
	`"STORAGESORT"`
	`end function`

Posting date	Select a valuation date. **Important:** If a work order time receipt is edited subsequently or canceled, the revaluation or cancellation of the linked journal entries is performed on the new valuation date. NOTE: This date only affects "receipt" documents. For "Issue" documents, the system sets the current date by default and the only way to modify that date is to modify "Issue quantity changeable" to 'Yes'.

Label - Printing

If a report is stored, the button "Label" is displayed automatically, as soon as the work order

© 2026 Boyum IT Solutions A/S

was selected or posted. Always the information of the last posting is printed.
There is no default report.

Setup:
1. Create a report.
2. Store the report in this window in the macro.
3. Close window and re-open.
4. Printing is available now.

Available variables:
<docentry> = docentry from last document from table OIGE.DocEntry
<docnum> = Document number OIGE.DocNum

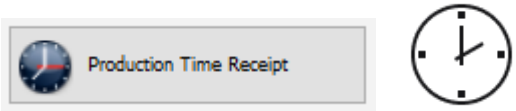
Compatibility:
Until beas9.0 Patch3 the button "Label" was displayed always and the report "Box label" was printed. If it was not existing, no label was printed.To enable printing, setup this report as described above.

See Macro

Webinar 8/2017, Part Work order Backflushing Booking

See also Work order backflushing booking, Material posting

17.3.4.7 Production Time Receipt



Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.
See Terminal settings in Configuration wizard.

With this app you can create a Time receipt for production.
This menu option can be used to call the receipt window for manual time receipt.
If data is entered via bar code, this is recorded in the Bar code field. After the first input, the cursor

© 2026 Boyum IT Solutions A/S

remains in the Bar code field for each new input.
Only new entries are possible; existing entries cannot be changed.

The behavior of the visible fields is set up in **Configuration Wizard > Production > FDC - Time receipt view.**
All other rules can be configured in **Configuration Wizard > Production > FDC.** The login rules are not considered.
Further rules are stored in the operation itself (***See*** **Master data > Edit Item Master > Routing** - in the tab Extended).
WMS Integration: Produmex WMS Batch attributes are supported.

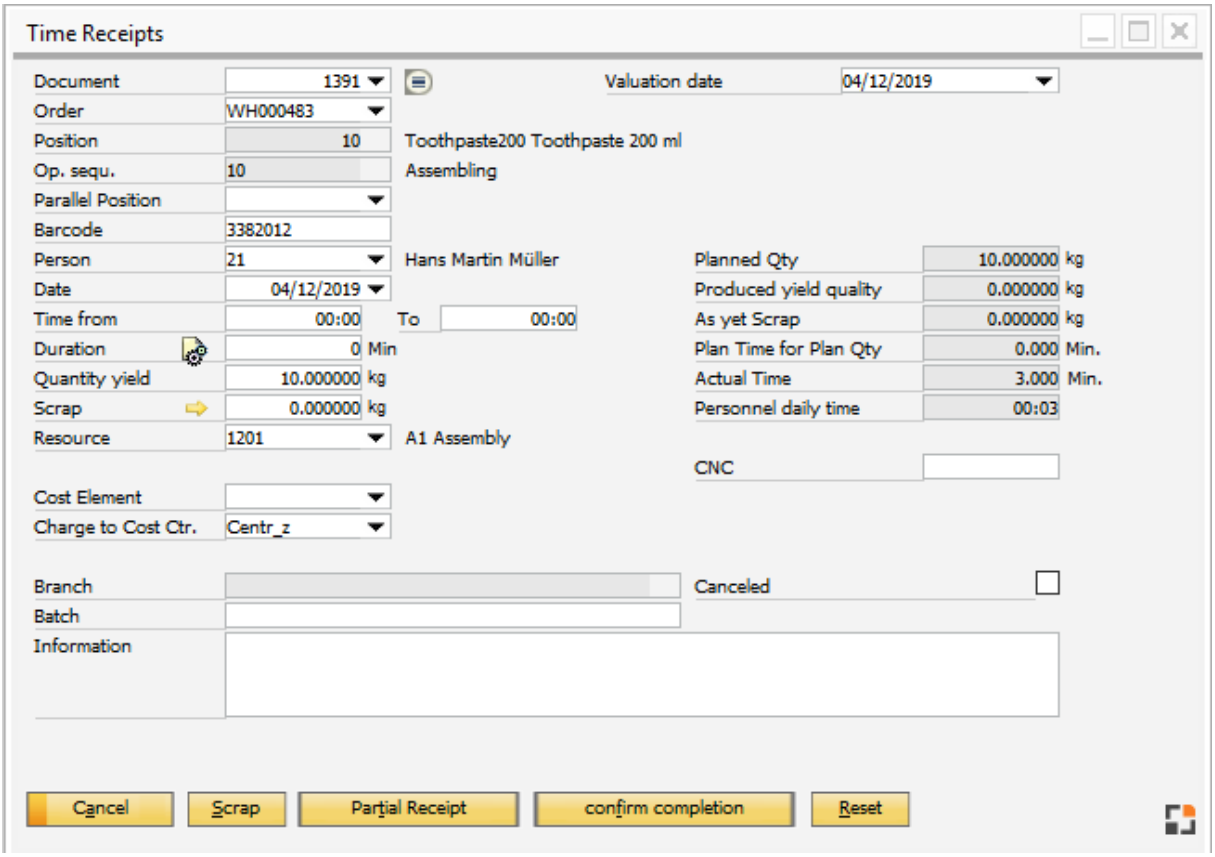
This window can also be reached from:
- Manage production times
- FDC time receipt
- Work order structure - Right-click on routing position – Create receipt
- Production list - Double-click on a receipt report
- Terminal – Close work order

Note: Because material postings and journal entries are created, extended rights in SAP B1 are required if you do not work with the terminal solution.
See Mandatory SAP-B1 rights

Material posting, assembly posting
With a report, material is also issued where applicable or the assembly received. For further information ***see*** Material posting.
The "Exceeding planned quantity allowed" Configuration parameter affects Production Time receipt: Minimum/Maximum values are related to receipt quantity.

PATH: Production > Factory Data Capture > Production Time Receipt

© 2026 Boyum IT Solutions A/S



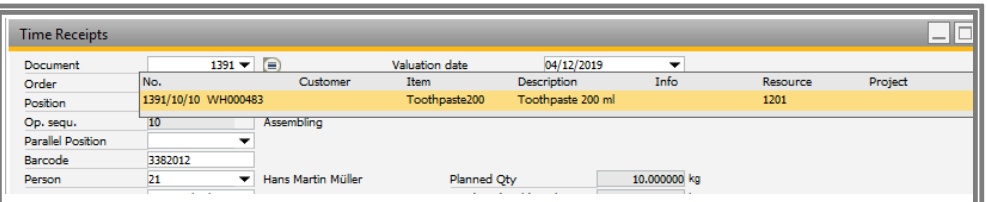
Window fert_arbzeit_erfassen.psr

Choose Routing position in time receipt window

Field Description

Field	Description
Document	Search by Work Order Number (Order Number) Search work order by work order document number. In this field there are always 2 modes to choose a work order. **Drop-down Icon:** Search for work order, on which you made last time receipts. ***Example***: There are employees working many times on the same routing positions and thousands of open routing positions. In this way you can simply find your last routing position. The system searches for the last 190 time receipts and groups them by routing position. This only works if the personnel number is defined.

© 2026 Boyum IT Solutions A/S

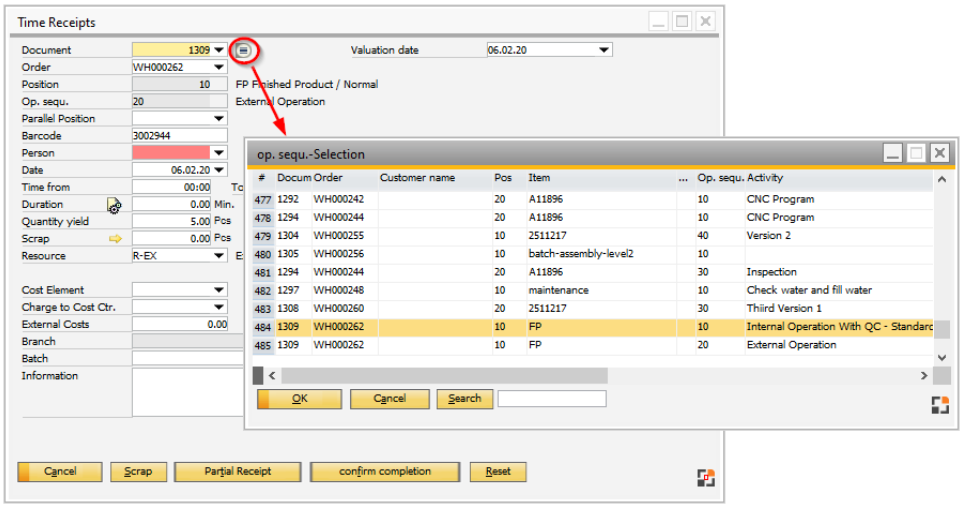


Choose by Icon

If you click on the icon, the system displays all open operations.

The system does not check any rules. All open routing positions are displayed.

Window settings and templates are available.



Window fert_arbzeit_erfassen_afoauswahl.psr

Valuation date	Enter the desired valuation date Material postings are carried out on this date. Determining the resource costs is independent of the valuation date. The current costs are always used. ***See*** Resource costs Post-calculation – last movement; refers to the valuation date, even for order time receipts. If the order date was changed, the valuation date is adapted as long as the order date is not set to the future. The valuation date can be changed any time, independent of the order date.
Work Order	Work order number. The drop-down field lists all open documents. When selecting a number, the order

© 2026 Boyum IT Solutions A/S

	is opened. When entering a number, the first open work order with that number is opened.
Position	Work order position of the selected work order.
Op. sequ.	Operation sequence position to be reported. **Master-Slave operations - time receipt creation** **IMPORTANT NOTE:** When the user defines Master-Slave operations when creating a Time receipt for a "master" operation, Beas first generates all Time receipts for the slave operations, and *then* the time receipt for the master operation. Due to this sequence, if something fails during the time receipt process of the master operation, the previous Time receipts are **not** rolled back.
Parallel position	Selection of a parallel resource in case there are parallel resources defined in the routing. **NOTE:** Parallel operations do not consider quantities and do not manage Open/Close status! Time receipt creation does not close a parallel operation.
Barcode	Unique number to identify the work order number, position and operation. If the user enters the bar code, the work order number, position and operation are recognized. This is a fast way to identify the operation in a work order routing. The Barcode is stored in the operation and is printed on the production document. Also displayed in Work order routing – Position – Extended – Barcode *(BEAS_FTAPL.NUMMER)* and in Parallel Resource *(BEAS_FTAPL.NUMMER + BEAS_FTAPLWKZ.POS_ID)*
Person	Personnel number of the employee who performed the work (configurable in **Human resources > Personnel**) Entries are checked for validity. A card number can also be entered to search for personnel number (in case it exists). The selection list is sorted by name, first name and middle name. Only employees with login authorization are displayed at a work order.
Date	Date of the time receipt. "Date To" is only visible if multiple date entry is configured. ***See* Configuration Wizard > Production > FDC > time receipt View > Multi-day Input.**

© 2026 Boyum IT Solutions A/S

Time from-to	Optional start and end time of the activity. The duration can be reported without time from / to. After the time is provided, the duration is re-calculated automatically. Visibility of the fields can be stored in the settings.
Duration	Duration of order time. This can also be changed after automatic calculation. Data is input in time hours, time minutes or industry hours. NOTE: Beas does not support entering times in any units smaller than minutes, e.g. seconds/milliseconds and so on. The type of the entry is selectable of the input via the gear symbol / . This setting is station-specific and can only be entered in the input screen. Note on industrial hours: Full minutes are used, seconds are not supported. The entered time in industrial hours is rounded down to normal minutes. ***Example:*** 14,09 → 14:05 Minutes and 24 Seconds. Rounded to 14:05, equals 14:08 Industrial minutes In case of automatic calculation, additional rules are considered which can be stored in the Configuration Wizard. ***See*** Time linking, parallel calculation. ***See*** the option "Calculation result" to see how the duration was calculated. Reported time is subtracted from reserved time immediately. This is displayed in graphical resource utilization display, in the bar right below, in the work order structure and in other windows. Note: Time receipts can only be entered in minutes. For planned times, more digits can be entered because of multiple quantities. Display calculation results Use the cogwheel icon to display the result of the calculation, to see how

© 2026 Boyum IT Solutions A/S

	the duration was computed and which factors had an effect. Function is available from *beas 9.1 PL: 07* ⊟ Why is time receipt not available in millisecond accuracy This feature is a factory data capture, not machine data capture. For capturing machine data, connect an MDC-device. Beas offers an interface to ILS. The MDC device can register times in seconds or milliseconds. Then, you can run evaluations. The MDC-device only transfers to Beas the start/end-time, yield and scrap quantity. ⊟ Negative cycle time Another possibility of cancellation is to enter negative cycle time. This is only possible if no costs were stored. At order log-off negative values are blocked. You can enter negative values only in production time receipt.
Quantity yield	⊟ The produced, defect-free quantity in receipt units If backflushed material is assigned to the routing position, the material is automatically posted with the appropriate quantity (yield quantity + scrap rate). In the case of the last reportable routing position: • the appropriate number of the assembly to be produced is received (converted to units of store), if in **Configuration Wizard > Production > Valuation and Posting of Assembly > Posting > Booking Finished Items when > Like Material (Last Operation or Backflushing)** is configured. • the production position and the work order are closed – depending on the setting under **Configuration Wizard > Production > Valuation and Posting of Assembly > Close production position** **Specification of the quantity to be reported:** The quantity to be reported can be specified. This is activated in **Configuration Wizard > Production > FDC > Login Rules > Suggest Remaining Quantity**. The planned quantity is then proposed minus the previously reported yield quantity + scrap quantity. If **Maximum previous quantity reportable** is also activated in the same area, the yield quantity reported in the preceding reportable routing

© 2026 Boyum IT Solutions A/S

	position minus the quantity reported to this previously reported yield quantity + scrap quantity is proposed. **Unit of measure** For time receipt, the unit stored in the operation is used. If not set up, the consumption unit of the assembly is used and is converted, if it is different from the warehouse unit (order time to consumption unit and material to warehouse unit). ***See*** Edit routing - Extended. Material is posted with this quantity ***see*** Material Entry.
Scrap	Scrap quantity in reporting units Quantities that are considered rejected during the process. If a goods issues process links to the time receipt, this quantity is considered as total scrap quantity at the goods issues. Use the orange arrow to enter a scrap reason. A new window opens to select scrap reason and quantity. Scrap reasons need to be defined before they can be used. If you want to make further use of the scrap material in **Configuration wizard > Production > FDC > view time receipt –** there is a possibility to **post back scrap material**. Enable this, to get a list of issued items in the Cancellation screen after the issue is processed. In this screen scrap quantities can be allocated and posted back to the original warehouse. Material is posted – ***see*** Material posting. Entry quantity is in entry units defined in the operation sequence. ***See*** Production – Routing – Extended – Time receit unit **Note:** If working with scrap, Cut-off and scrap may not be considered in the planned quantity, because otherwise the material would be posted twice. In case of incorrect settings, a warning screen opens once per program start. ***See*** Configuration wizard – backflushing.
Resource	The resource or machine on which the work is performed The cost rate of the activity comes from the resource. If a resource group was defined at the routing, a resource must be selected from the specified group on the time receipt.

© 2026 Boyum IT Solutions A/S

	Available resources depend on personnel settings. Only resources allowed for each employee in **Human Resources > Personnel > FDC Tab** can be selected from the drop-down list. **NOTE:** The default data loaded by the system may contain a resource that the selected personnel has no rights to. By default, Beas allows a time receipt to be created for this resource. To avoid this situation, and block this resource from the list, you can add the following customization: Production Time Receipt resource selection codes: fert_arbzeit_erfassen.src fert_arbzeit_erfassen_afoauswahl.src ***See*** Personnel master
Time Type	Time type of the time receipt If time types are stored in the resource, the time type (setup time, processing time and so on) can be selected. If the time type is changed, the cost element of the routing position is entered into the Cost element field. ***See*** Configuration wizard – Master data – Resource – Time types Concept time types
Cost element	Cost element to which the costs are to be posted. Entry is determined automatically according to the information of the resources and time type. It is possible to manually change the selection. ***See*** Cost elements
Cost Center	The cost center to be charged The default cost center can be defined in **Configuration wizard > Production > FDC >** Cost Center determine by If a journal entry is set up in the time receipt, the cost center applies to the journal entries created by the time receipt. Yet, this cost center does not apply to material transactions. For material transactions, the system reads the cost center from the item.
Branch	The branch that the time receipt is made from

© 2026 Boyum IT Solutions A/S

	The branch from which the time receipt was made. If the multi-branch solution is activated, the branch is displayed in which the order time receipt was created. Only the branches, that are stored in a work order position can be used for time receipt.
Batch	The batch (temporary batch for the reported quantity) **Note:** This batch does not affect the batch number of the assembly. The information is for reporting purposes only. This field is used if working with a temporary batch. Beas does not take this input into account. The batch number can be displayed in various time reports using the right-click menu window settings option, marking the batch field.
Canceled	Marking: Message canceled Under certain conditions it is not possible to delete an order time receipt. It can only be canceled at that point. Canceled time receipts are hidden in most evaluations. In work order structure they are displayed in gray. A cancellation cannot be undone. A time receipt is canceled instead of being deleted if the cost elements are stored in the operation which creates the journal entries. Thus, the order time receipt is linked to a journal entry. For better traceability, it is possible to enable **Configuration Wizard > Production > FDC > Order Time Receipt: protocol.** In this case, a journal entry is created for every time receipt, even for time receipts without a cost.
Information	Free text for information.
Price	For external operations: the costs incurred.
Logout attendance	If active, the employee is logged off from attendance automatically This field is only visible if attendance linking is activated in the Configuration Wizard. For further information ***see*** Attendance linking.
UDF 1–15	User-defined fields UDF 5–15 fields are not visible in the window. **Make UDF5-15 fields visible:**

© 2026 Boyum IT Solutions A/S

The user can create text boxes and link with those fields or assign them via BeasScript:

```
dw_1.item.udf5.value=prueba
message=<dw_1.item.udf5.value>
```

Create a text box in the window and link it with UDF5:

```
windowevent open
//Create a field for codebar
create=column=x=2030,y=80,width=457,height=52,id=udf5,name=udf5
create=text=x=1445,y=80,width=562,name=udf5_t,text=UDF5 example
end event
```

The system saves the information automatically when the time receipt is created.

The following are displayed on the time receipt screen, but can be deactivated:

Field	Description
Planned Qty	Quantity to be produced in receipt units.
Produced yield quality	Quantity previously reported defect-free in receipt units.
Produced Scrap	Previously reported scrap.
Planned Time for Planned Quantity	Default time.
Actual Time	Previously reported time.
Personnel daily time	Time reported today for the selected person.
Tool	Field is only displayed, if a tool entry was found which determines lead time. In this case, all active tools are displayed for the selection.

Button	Description
Delete	Delete time receipt Only available if working in change mode and if the work order item has not yet been closed. **Note:** If a cost type is stored with accounts, a journal entry is created. On deletion, a reversing entry is made first to this booking.

© 2026 Boyum IT Solutions A/S

	For more information ***see*** Production Time Administration. **Important:** Existing time reservations are not restored. Re-scheduling may be necessary. To make all confirmations comprehensible, a cancellation can be performed instead of a deletion. This can be activated in Configuration wizard > Production > FDC > Production time receipt: block deletion This function has the following effect: • It is no longer possible to remove the operation sequence from the work order structure window. • The operation is not be deleted but canceled. Time and quantity is set to 0, and the cancellation switch is activated. A canceled order time receipt can no longer be activated. If costs are booked at the moment of time receipt creation, this option should be enabled. Canceled order time receipts have no value and they are not displayed in lists (for example, post-calculation). In the work order structure view, the canceled entries are displayed in light gray. ***See*** Webinar: Adjustment user mistakes at the work orders 10/2017 At cancellation these values are entered to the activity log: • Key1 = "cancel" • Key2 = Duration (minutes) • Key3 = Yield Quantity (in assembly unit) • Key4 = Scrap (in assembly unit) • Key5 = Costs to marginal costs • Key6 = Costs at full cost • Key7 = Assignment to the journal entry, if existing
Scrap	Opens a new window to provide the scrap quantity and scrap reason. The total quantity is transferred to the scrap quantity at the time receipt.

© 2026 Boyum IT Solutions A/S

Partial Receipt	Create a new, partial receipt Creates the time receipt document without closing the operation. Users can continue reporting at this operation. Only available at a new entry: • Saves the order time • Posts the assigned, backflushed material. ***See*** Material Entry • If it is the last routing position: post the assembly to be produced In case of the last routing position a security prompt is displayed: With this time receipt the assembly will be posted. Continue? (Id ftpos_lastafo239545). This prompt can be disabled in Configuration wizard Note: if "Close operation sequence automatically" is activated and total receipt quantity + scrap quantity >= planned quantity and no additional employee is working on this operation, the system closes this operation and ignores that you clicked on "Partial receipt".
Intermediate report	Intermediate report, behavior of this button depends on these settings.
Confirm completion	Creates the time receipt document closing the routing position. Workflow: • Saves the order time • Posts the assigned, backflushed material. ***See*** Material Entry • If it is the last routing position: post the assembly to be produced • Close routing position If another is working on this routing position in parallel, it is not possible to close the routing position. The system returns an error message "*(bdeostmp45) There are Clock times for this Operation! Cannot close!*" Close work order position automatically If this is the last operation and If "close work order position automatically" is activated, the system closes the work order

© 2026 Boyum IT Solutions A/S

	position. For more information ***see*** Configuration wizard Note: The system does not check the quantity. If you post 0 from 10Pcs and click on "Confirm completion", the system closes the work order position, too. If "Close work order automatically" is activated, the system closes the complete work order if all work order positions are closed. NOTE: If it is the last routing position, it closes the production position including any necessary journal entries (WIP balancing) After closing, it is not possible to report any other information at this operation. The button "**Confirm**" is only visible if the following conditions apply: • the operation is not an overhead order. ***See*** Production types • no other employee is currently logged on to the operation • in the respective time type close operation is not disabled. ***See*** Configuration wizard – master data – resource – time types • only when creating a new entry
Save	Saves the changes. Only available in change mode. **Note:** If a cost category is stored and in turn accounts are stored in the category, a journal entry is made when creating the report. If the order report is changed, the journal entry is canceled, and then a new journal entry is created with the new values.
Change log	List of all changes. ***See*** Change log.

© 2026 Boyum IT Solutions A/S

Time protocol	Detailed protocol, of how the duration is calculated.

Note: If the production position is closed, time receipt can no longer be changed.

Videos

Function: Open material issue form from time receipt window

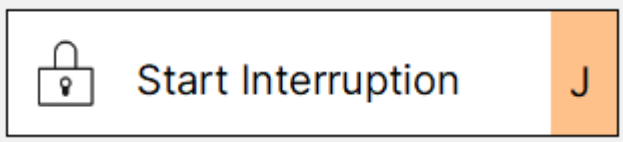
Change log in the database

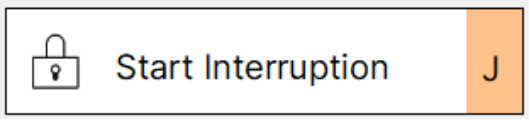
Every change is logged in the change log. As the costs cannot be changed directly, because they are calculated automatically, if a change is made a separate data record is inserted with the following content in the information field: "Change to information: Marginal costs previously ... new, full costs previously ... new"

The new key fields contain:

- Key1= “change info“
- Key2= duration (minutes)
- Key3 = yield quantity (in assembly units)
- Key4 = scrap (in assembly units)
- Key5 = costs at marginal costs
- Key6 = costs at full costs
- key7 = assignment to journal entry, if available
- key8 = allocation to cancellation journal entry, if available

17.3.4.8 Start Interruption





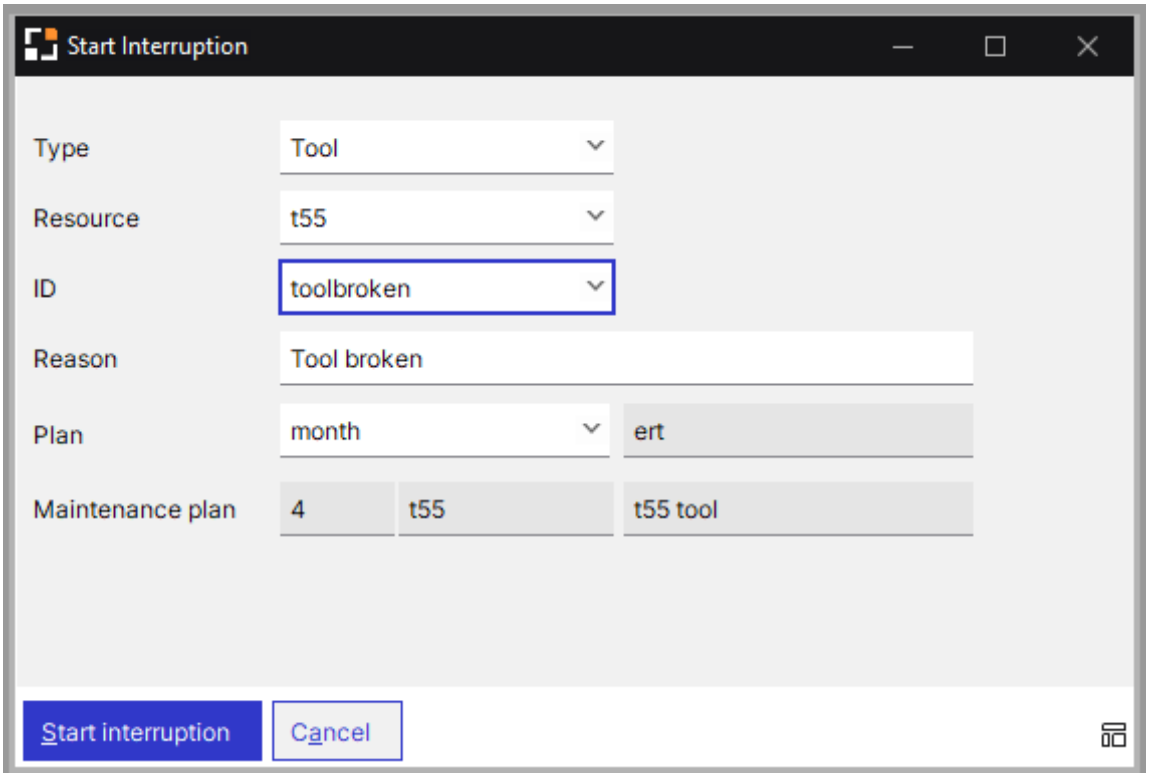
Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

With this app you can start an interruption for a resource or tool.

To start an interruption, a resource type and an interruption reason is required. When starting an interruption, the time of running operation from the related resource is stopped. With the **Start Interruption** button, the interruption starts.

© 2026 Boyum IT Solutions A/S



Window bde_terminal_stillstand_ein.psr

Field descriptions

Field	Description
Type	Specify whether the interruption is created for a resource or tool.
Resource	Define the resource or tool for which the interruption is created. **IMPORTANT:** This field displays the Resource selected in the operation that the employee is already logged in. If the employee is not logged into an operation, the field displays the resource selected by the SAP user.
ID	Define the interruption reason. This can be created directly in this tab, by clicking on the list button right next to the ID field, or from the setup menu in SAP.
Reason	Insert a description of the interruption reason. By default the description of the selected interruption reason is used.

© 2026 Boyum IT Solutions A/S

Field	Description
Plan	The link of the parent Maintenance order. **NOTE:** When this screen is opened from the Desktop Terminal app, this field is **not** displayed.
Maintenance plan	The link of the parent Maintenance order ID. **NOTE:** When this screen is opened from the Desktop Terminal app, this field is **not** displayed.

See

Personnel – Resources

Edit/Add Interruption

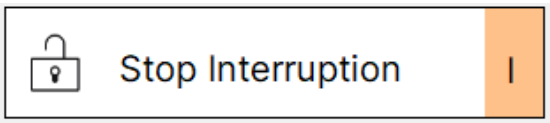
Interruption reasons

WebApp Start Interruption

WebApp Stop Interruption

WebApp Pool report

17.3.4.9 Stop Interruption



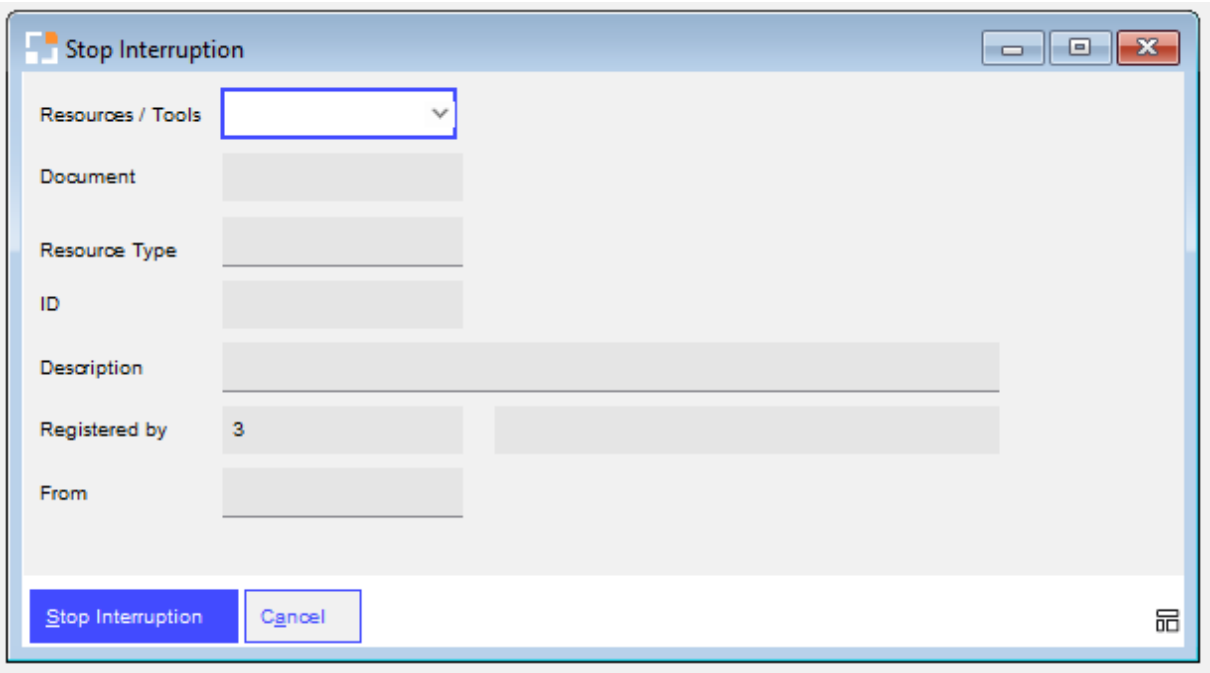
Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

With this app you can stop an interruption for a resource or tool.

If there is no active interruption, the system shows a message. A new window is displayed with the information from the current active interruption. The system automatically knows the user or worker who originally started the interruption. With the **Stop Interruption** button, Beas allows you to stop the interruption. After a refresh of the Interruption tab, the information is updated.

© 2026 Boyum IT Solutions A/S



Window bde_terminal_stillstand_aus.psr

Resource: Select the resource or tool with the interruption. This is the only changeable field in this window.

The following fields cannot be changed and only display information:

- Document: A counter for the interruption.
- Type: Displays the resource type.
- ID: Displays the interruption reason.
- Description: Displays the description of the interruption reason.
- Registered by: Displays the person responsible for starting the interruption.
- From: Displays the start date of the interruption.

See

Personnel – Resources

Edit/Add Interruption

Interruption reasons

WebApp Start Interruption

WebApp Stop Interruption

© 2026 Boyum IT Solutions A/S

17.3.4.10 Logoff work order

Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

Use this function to log off from a running work order. Accessible via Terminal-Applications - App "Order logoff". This is the opposite function to "Login work order"

It is the same window as Production time receipt with 2 restrictions:

1. Only currently running work orders can be selected,
2. The time is calculated automatically.

NOTE: Parallel operations do not consider quantities and do not manage Open/Close status!. Time receipt creation does not close a parallel operation.

See Production time receipt

- Special case: same start- and end date

  If an order was started in whose resource the setting "same start- and end date" was enabled, the screen "work order logoff" is opened, which is specifically tailored for such time receipts.
  If several work orders were started and in at least one of these a resource has the setting "same start- and end date" activated, first a resource selection screen is opened. After the selection of the resource, the screen "work order logoff" is opened. ***See*** Order logoff Start/End date

- Automatic attendance reports

  If in **Configuration wizard > FDC** the option "**attendance linking**" was enabled, the employee is automatically registered in attendance.
  See Configuration wizard > FDC > Attendance linking

- WebApp

  This function is also available as WEB-Application with the following restrictions: only the time is reported, no material is posted. Optionally, assembly posting can be activated, as long no manual entry of batches and serial numbers is necessary. ***See*** WO Stop WebApp.

© 2026 Boyum IT Solutions A/S

17.3.4.10.1 WO logoff Start/End date

This window opens at work order logoff if the option "same start- and end date" was enabled in the selected resource.

See

Logon work order

Resource: same Start- and End date

Example of use for same start- and end date

A sheet metal punching machine creates several individual pieces for multiple work orders with one push. For this purpose, the orders are successively registered on this machine (resource). This can take some time, though actually all orders have the same starting point. When the punching operation is finished, all registered orders are completed at the same time. Therefore only the quantity is entered and the times are automatically distributed as a percentage in the Production time receipt window .

The expense is distributed by a fix formula according to the stored planned times of the work orders.

Distribution rule for order times

Standard parallel time calculation is disabled. The complete lead time is distributed to the time receipts.

Calculation: job time * (yield+scrap qty) : (Sum of all job times * (yield+scrap)) * lead time

Example:

Lead time 234 minutes, job time operation 1: 78 mins, operation 2: 240 mins, confirmation operation 1: 2*yield, operation 2: 3*yield (see picture)

Operation 1 = job time 78 mins * 2 yield = 156 mins

Operation 2 = job time 240 mins * 3 Gut = 720 mins

Sum = 876

Calculation Operation 1 =156 mins / 876 total * 234 reported mins = 42 mins

Calculation Operation 2 =720 mins / 876 total * 234 reported mins = 192 mins

If, due to rounding, the sum of the individual times does not correspond to the total time, the difference shall be divided equally among the reported work orders.

Restrictions

© 2026 Boyum IT Solutions A/S

Parallel resources are not supported. No posting of material (backflushing) and no assembly posting!

The function is not supported by WEB-APPS

17.3.4.11 Login work order

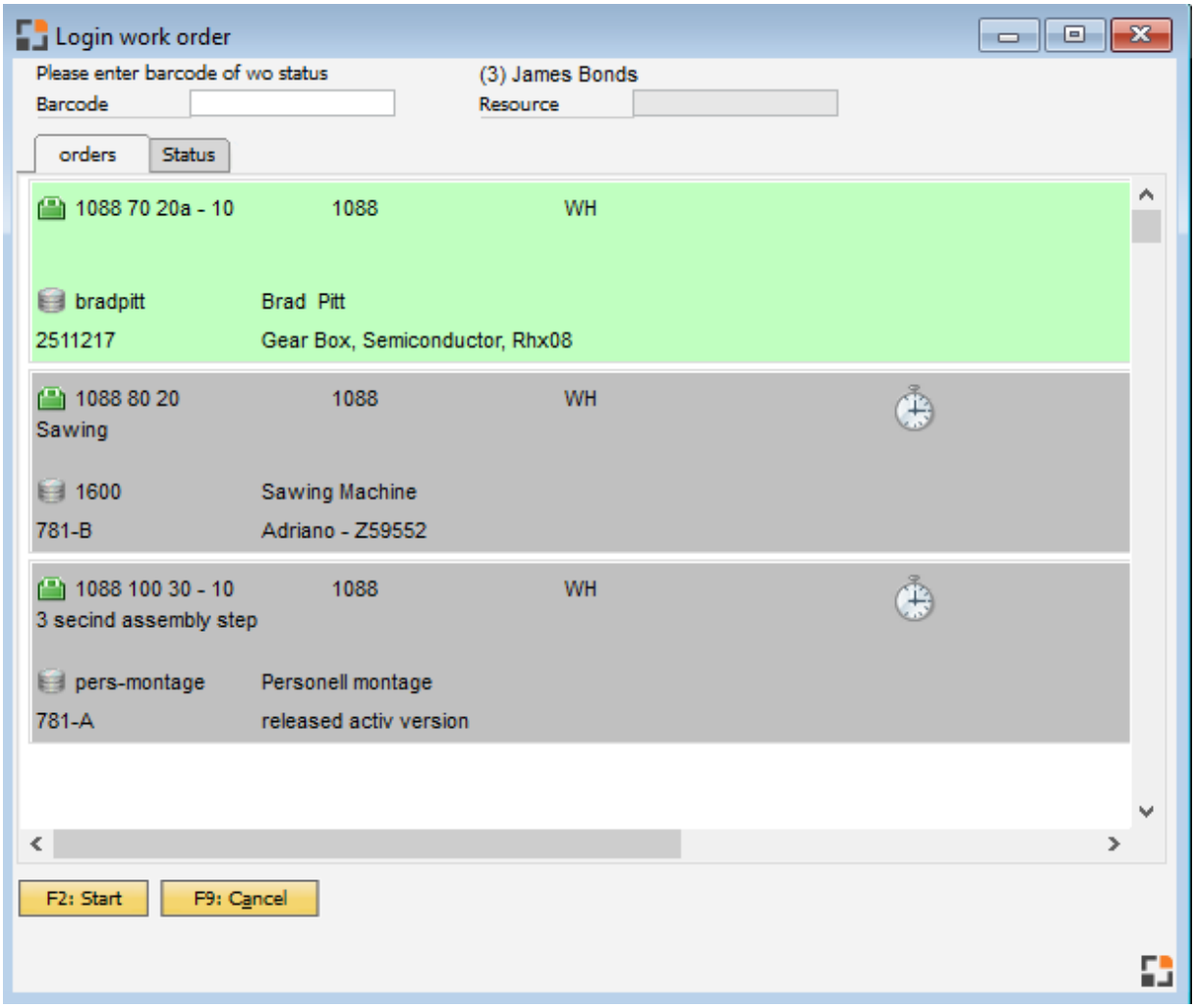
Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

Use this function to login to a routing of a work order. The working time is registered until the order is logged out again.
The app is affected by the "Work order must be set to planned" setting.
ATTENTION: The setting "Order times Enter" setting of "Operation types" affects the what operations are displayed in the "orders" list.

PATH: Production > Factory data capture >Terminal > enter user+password > select "**Login work order**" app.

© 2026 Boyum IT Solutions A/S



Window fert_ftstmp_anmeldung.psr

Logon the operation sequence via barcode which is printed on the WO. There is an manual selection alternatively.

Only displayed operation sequences can be selected. Exception: Personnel master > FDC -> allow logon to op. sequ. of all pools has been enabled. At the top the currently logged on employee is displayed.

Operation sequences from following are displayed:

- Working with pools

Pool function active:

All operations are displayed, which are located in current pool and which use operations that the employee is entitled to view.

Pool function not active:

© 2026 Boyum IT Solutions A/S

All operations are displayed without restrictions.

Adjustable in the Configuration wizard – Production
For more information about pool ***see*** Pool administration

- The station and the resources assigned to the employee

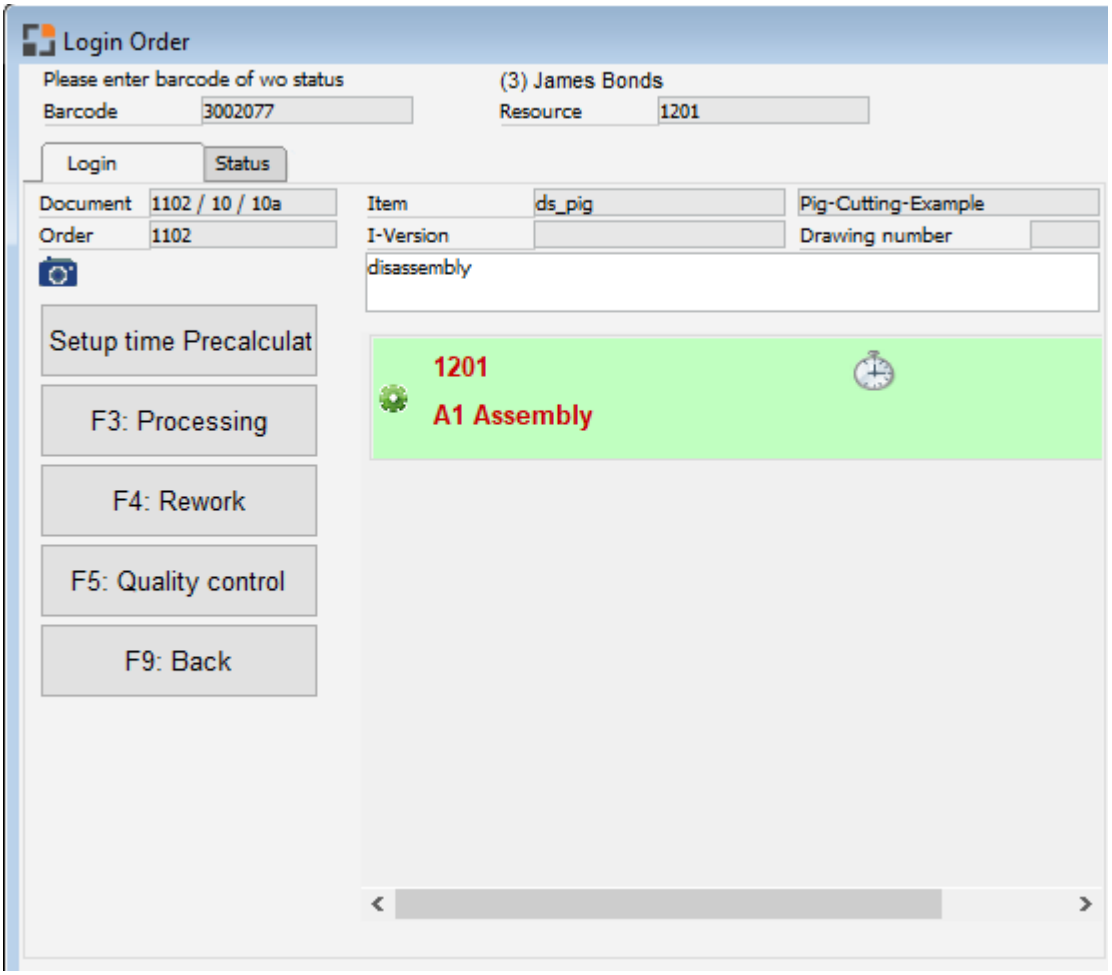
See:
Personnel master > FDC
Station settings

The following is displayed:

- Work order, assembly, position, production number, customer (or warehouse)
- optionally interruption information
- Resource ID and description
- Assembly, item number and description
- A clock if the order has been logged on already by the employee

Enter the bar code to log in, selection with ENTER or F2
Then the second page is opened.

© 2026 Boyum IT Solutions A/S



Window fert_ftstmp_anmeldung.psr

You can select:

- Working on which resource

  The resource stored in the operation sequence is pre-selected
  All additional resources are displayed which
  - belong to the same resource group
  - are stored as alternative resource in the routing position

  - all resources if the view is active in Personnel master > FDC

- Time type

  Up to 4 time types can be selected in the resource.
  These are set up in Configuration wizard – Master data – Resource – Time type

© 2026 Boyum IT Solutions A/S

The operation sequence is started by F2, F3, F4, or F5

The display of functions depends on the set time type.

The window can be closed or the next operation sequence can be selected directly has been enabled in Configuration wizard – Production – FDC.

NOTE: Parallel operations do not consider quantities and do not manage Open/Close status!. Time receipt creation does not close a parallel operation.

- Display documents and images

  Click on the camera symbol which displays the list of all available documents and images.
  An entry selected here is displayed directly with the display program installed on windows.
  The Preview window is supported

- Instructions

  Click on the , symbol and the Instructions dialog window opens. Add instructions to the work order here.

- Automatic attendance reports

  If in **Configuration wizard > FDC** the option "**attendance linking**" was enabled, the employee is automatically registered in attendance.
  See Configuration wizard – FDC – Attendance linking

Multi logon

Activate option Order logon: multi logon to logon several orders subsequently via bar code. The option is ignored if you call up the window via the pool list. *(beas 9.1 PL:08 HF: 2)*

- Automatic attendance logon

  If in **Configuration wizard > FDC** the option "**Attendance linkage**" is active, the employee will be logged on automatically for attendance registration.
  See Configuration wizard – FDC – Attendance linkage

- Performance

  The pool function should be deactivated if this view is too slow.
  Adjustable in the Configuration wizard – Production

© 2026 Boyum IT Solutions A/S

See

Opposite function: Logout work order

Customizations

If you want to change the list of displayed operations, use the following event to manipulate the filter:

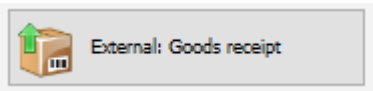
```
windowevent preretrieve
setvar=is_mmfilter=   (empty - disable multi-machine filter, grouping)
setvar=ls_where2= and (your filter - filter routing positions)
setvar=ls_where3= and (your filter - filter parallele resources)
end event
```

Example:

Employee 501 is allowed to report only work orders of type "AB"

```
windowevent preretrieve
setvar=is_mmfilter=
setvar=ls_where2= and "BEAS_FTHAUPT"."TYP" = 'AB'
setvar=ls_where3= and "BEAS_FTHAUPT"."TYP" = 'AB'
end event
```

17.3.4.12 External Goods Receipt



Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

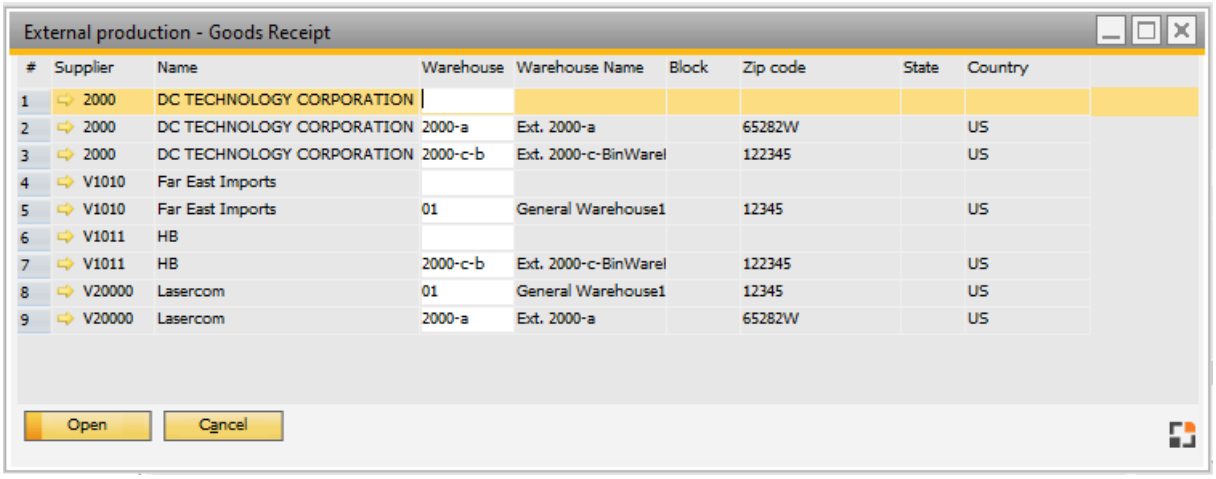
See Terminal settings in Configuration wizard.

This app opens the Goods receipt from external production window.
If the external supplier has delivered their service, the service can be posted in here. In this list all suppliers with existing purchase orders are displayed.
Use "Open" to show all details of the purchase order and to process the goods receipt.

Via **Right-click > Layout** a report can be stored. It is printed automatically after creating the goods receipt.
If provision parts are used or a backflushing process is triggered, printing takes place before these.

PATH: Production > External production > Goods receipt from external production.

© 2026 Boyum IT Solutions A/S



Window fert_external_openorder_browse.psr

Field descriptions

Field	Description
Supplier	External supplier.
Name	Name.
Warehouse	External warehouse of Supplier. Warehouse is displayed – according to window settings – with icon and color defined in the warehouse. The warehouse is displayed to which the related material has been provided. No material can be provided if no warehouse is entered.
Warehouse name	Name of supplier warehouse.
Address, city, state, ZIP, country	Supplier address.
Block	Address supplement.

Functions

Field	Description
Open	Open Goods receipt document.
Cancel	Close window.

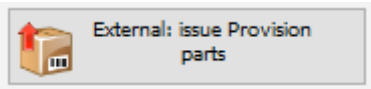
Right-click menu

© 2026 Boyum IT Solutions A/S

Field	Description
Window settings	Opens window settings for this window.
Refresh window	Refresh window content.

back to external operation

17.3.4.13 External issue Provision parts



Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

This app opens the issue provision parts window.

This window displays active provisions which can be selected for editing. The external operation is completed by issuing parts from an external warehouse.

Select and click **Open** to edit the document.

PATH: Production > External production > Issue provision parts

Window fert_external_delivery_browse.psr

Field Description

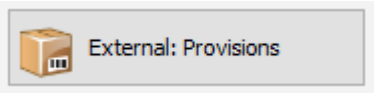
Field	Meaning
Goods Receipt	Document of goods receipt.
Date	Date of the document.
Supplier	Supplier of the external operation.
Name	Name of Supplier.
Warehouse	Supplier warehouse.
Delivery Date	Date of goods receipt.

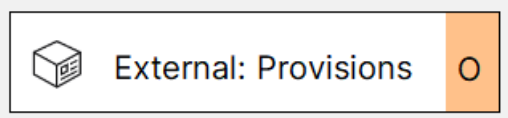
© 2026 Boyum IT Solutions A/S

Reference	Reference.

back to external production

17.3.4.14 External Provisions



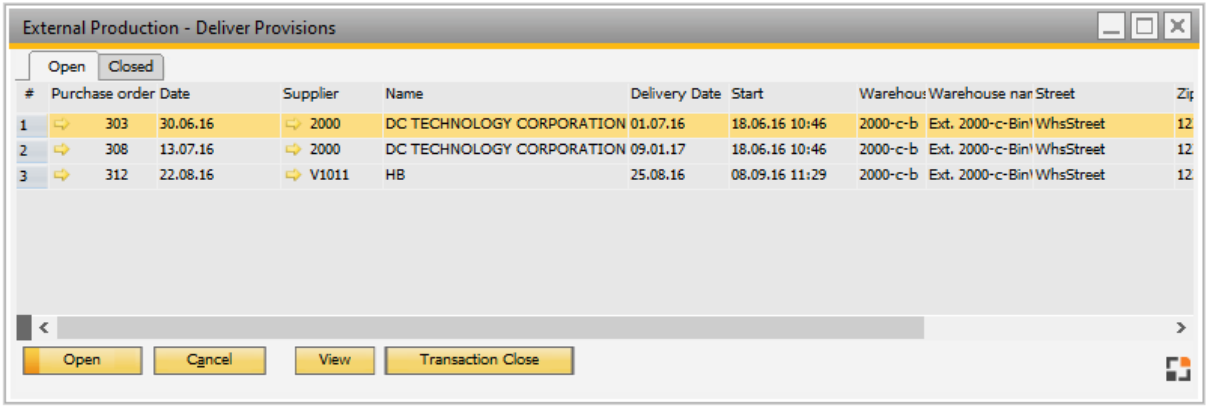


Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

See Terminal settings in Configuration wizard.

This app opens the Open supply window for external productions.
Selection list for provision parts.

PATH: Production > External production > Provisions



Window fert_external_owingspl_browse.psr

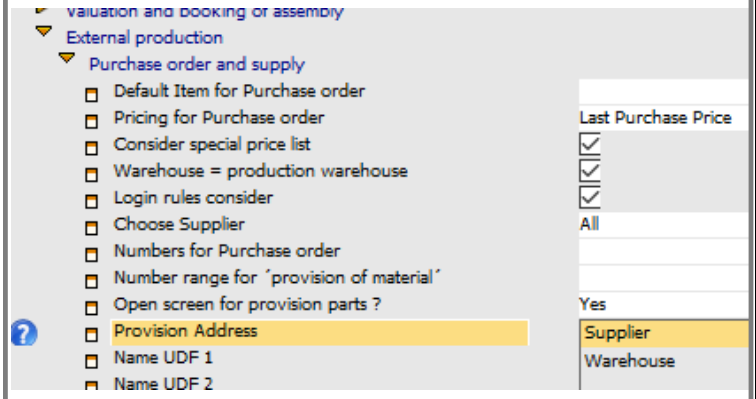
Upper tabs

Tab	Meaning
Open	Open provisions.
Closed	The list contains closed provisions stored in the archive.

Columns

Field	Meaning
Purchase Order	Purchase order number requiring the provision.
Date	Date of the purchase order.

© 2026 Boyum IT Solutions A/S

Supplier	Supplier of the provision.
Name	Name of the supplier.
Delivery date	Delivery date of the provision.
Store	External warehouse of supplier.
Warehouse name	Name of the external warehouse.
Address, City, ZIP, country	Supplier's address. The Address is taken from Warehouse or Supplier. Define this in **Configuration wizard > Production > External Production > Purchase order > "Provision Address"**  The warehouse was defined in the Collective Purchase Order – Target warehouse
Status	Actual status of the provision.
Provision	Number of the provision.

Lower Buttons

Button	Meaning
Open	Open the old provision parts window with fewer features and manual entry.
Cancel	Close the window.
Provision	Open new External Production - Deliver Provision XX window.
Activate	The button is only displayed if the respective purchase order has not been closed. In this case, a previously closed operation can be re-opened.
View	Open a view window to review a previously closed operation. The provision parts window itself cannot be opened.

© 2026 Boyum IT Solutions A/S

Transaction Close	Provision is closed and stored in the archive.

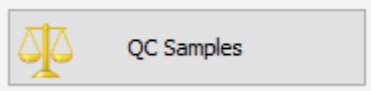
back to External operation

17.3.5 Quality Control apps

This chapter is dedicated to applications in the Quality Control area in the desktop Terminal.

QC Samples
QC Orders

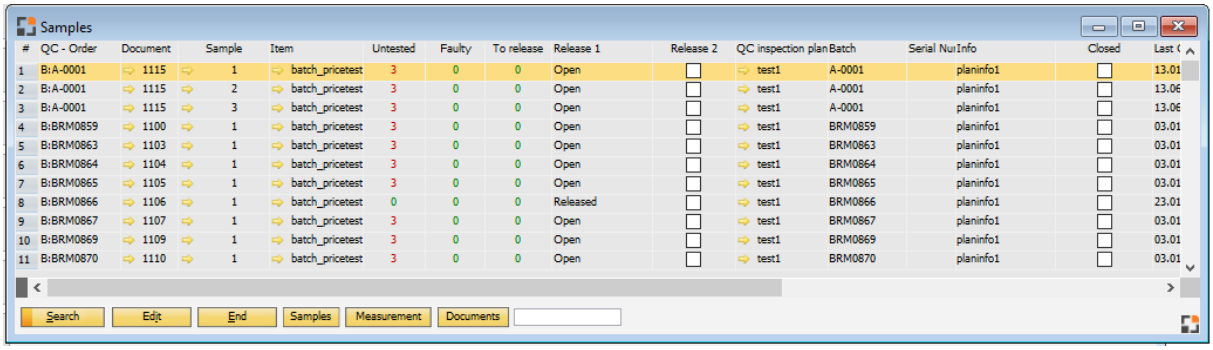
17.3.5.1 QC Samples



Available with Quality control license.

See Terminal settings in Configuration wizard.

With this function you can open the Samples tab of the QC Orders in a separate window.



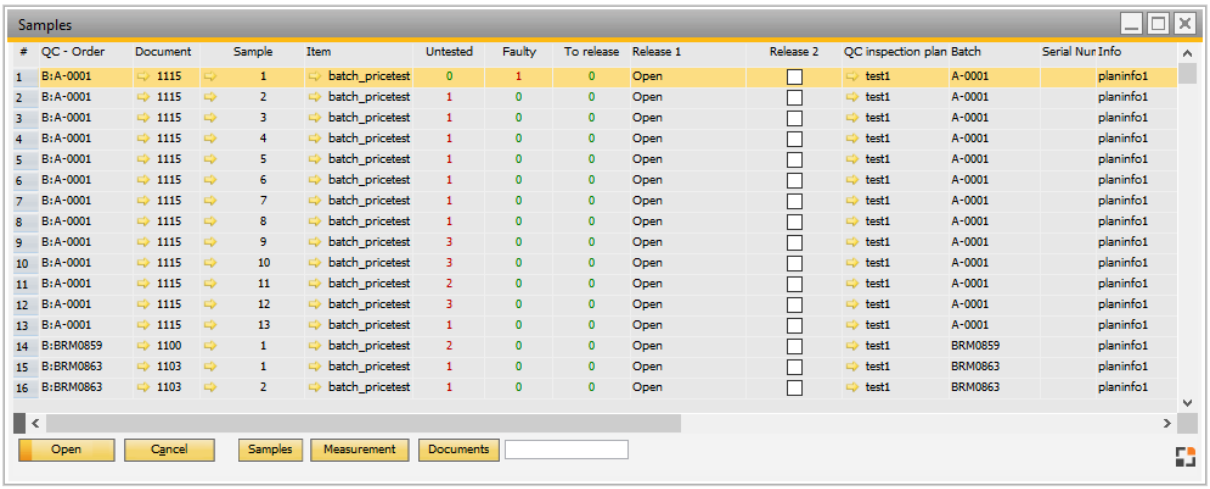
Window qs_qsftmessung_report.psr

This list shows all open samples of all QC-orders. QC-order, documents and measurements can be edited there.

Releasing samples is not possible in this window, and you should use the "Edit" button in (QC-Order) – Register per sample.

PATH: Production > Quality Control > Samples

© 2026 Boyum IT Solutions A/S



Window qs_qsftmessung_report.psr

For field descriptions ***see*** Register per sample.

Window settings and Templates are supported.

Function

Button	Meaning
Open	Opens the QC-order.
Measurement	Opens window Register measurement position for the currently selected sample.
Documents	Opens the Documents window for the currently selected QC-order.
Samples	Opens the Register sample window in which all the sample entries of the selected QC order are displayed.
Search	Opens the search window where can search using QC order, sample, Item, batch, inspection plan, etc.

See

Quality control orders

Quality control order - Item master - Quality control - QC-inspection plan

Register per sample

Register measurement position

Edit measurement position

Register per test

Register measured values for all samples

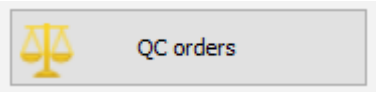
Documents

© 2026 Boyum IT Solutions A/S

Transfer

back to QC orders

17.3.5.2 QC Orders



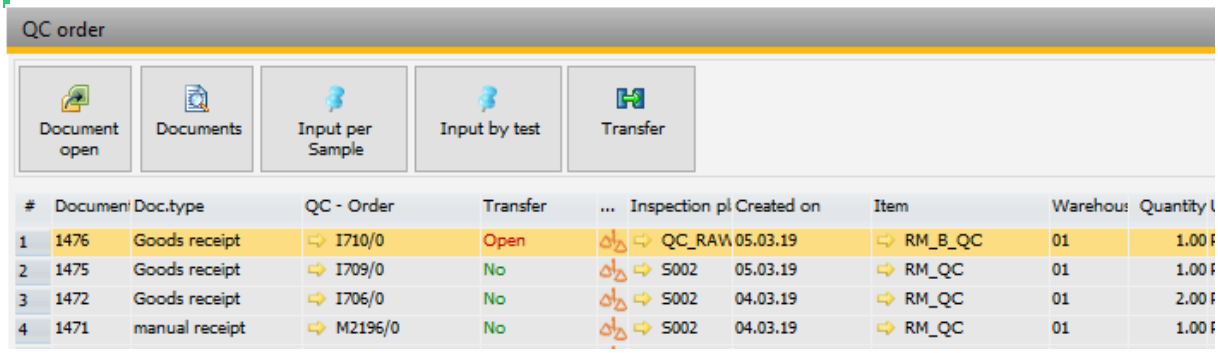
Available with Quality control license.

See Terminal settings in Configuration wizard.

All active QC-orders are displayed in the Quality control orders list. This dynamic list can be set up via window settings. Templates are supported, custom fields can be added.

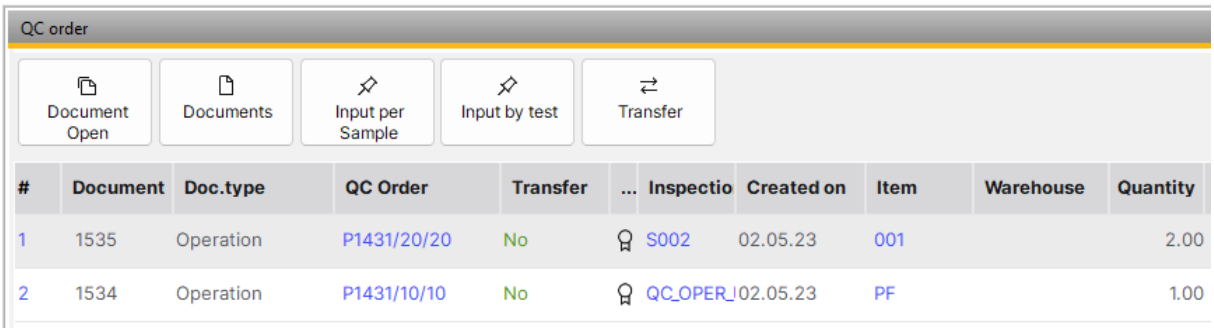
Closed quality control orders are hidden by default. Use the **Search** button to display them.

PATH: Production > Quality Control > QC order



Window qs_qshaupt_browse.psr

Boyum Style



Window qs_qshaupt_browse.psr

Ribbon

Function	Description

© 2026 Boyum IT Solutions A/S

Document open	Open the Quality control order.
Documents	Open the documents of the currently selected QC order ***See*** Documents.
Input per sample	Open the list of samples for the currently selected QC order. Function is blocked if only input by test is allowed for this order.
Input by test	Open list of required tests for the currently selected QC order. Function is blocked if only input per sample is allowed for this order.
Transfer	Open transfer window for the currently selected QC order. Function is blocked if no items can be transferred.

Field descriptions

Data of QC-orders is displayed here. For field descriptions, ***see*** Edit QC-orders.

Functions

Function	Description
Search	Search for inspection plans.
Open	Edit the currently selected QC order.
Refresh	Update the list without reopening it.
Add	Create a new QC order without any reference. ***See*** new QC order. *(beas9.1-004-064-000)*
Reports	Open Reports.

See documentation on WebApps 2.1 managing QC orders:

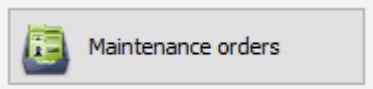
QC by Sample

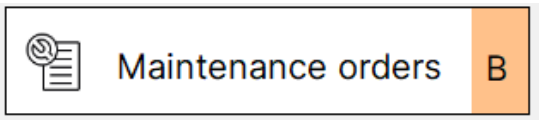
QC by Test

QC Transfer

QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

17.3.6 Maintenance orders





© 2026 Boyum IT Solutions A/S

Available with Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.

With this app you can report manage Maintenance orders.

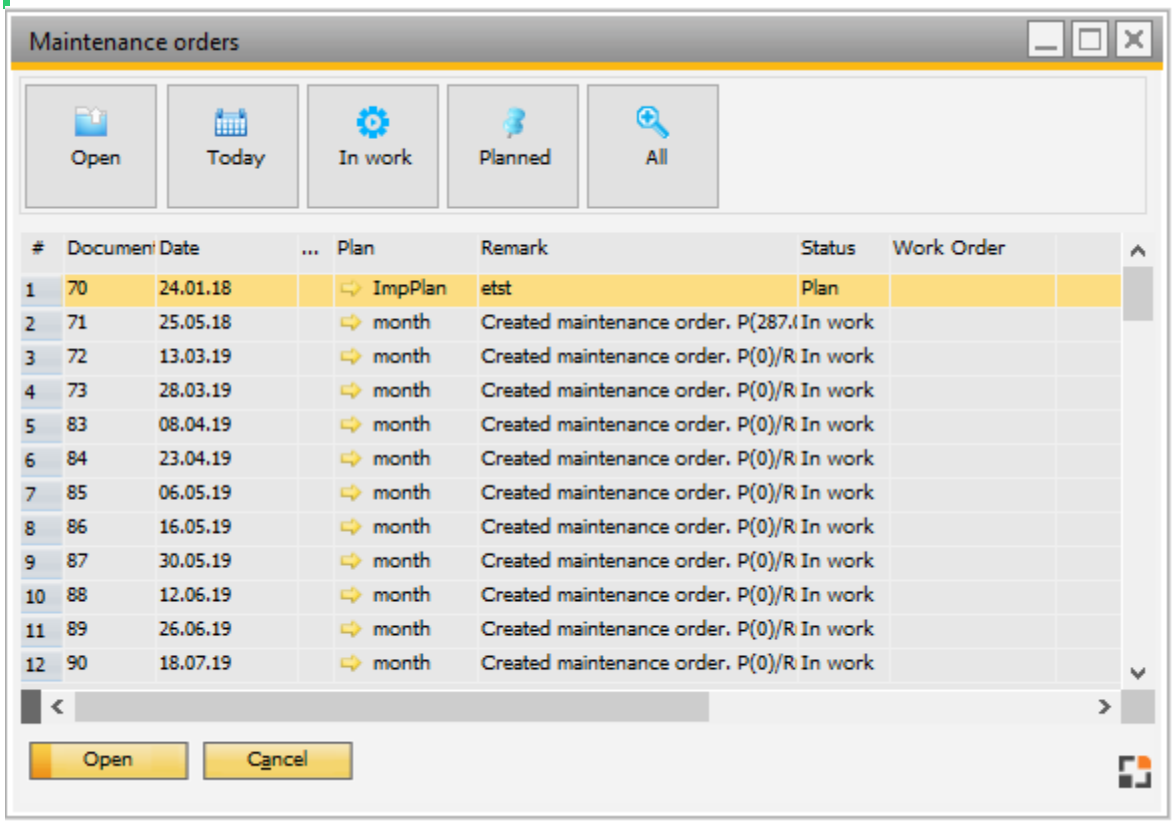
Internal and external maintenance

- Maintenance list
  - Master data
  - Maintenance plan
    - Components
  - History
- **Maintenance orders**
  - Maintenance order

This window can be used by the service worker.

The worker can see all active maintenance orders, start or stop the orders, and can create time receipts for their activity and a lot more.

PATH: Service > Maintenance orders.



Window maintenance_order_browse.psr

© 2026 Boyum IT Solutions A/S

Boyum Style button design:

All active maintenance orders will be displayed and managed in this list. Window settings and templates are supported.

The authorization for **Maintenance orders** is necessary.

License: You need the maintenance license or in terminal mode the Production Data Collection License.

Terminal mode

The window can also be opened via the terminal app: Maintenance order

In Terminal the functionality is limited:
- Administration tasks are not available
- No history from closed maintenance orders (Filter: All)
- No access to Bill of Materials and Routing Details
- No activity (= SAP Function)
- No service calls (= SAP Function)
- Not possible to open the linked work order
- No History Log

For field descriptions ***see*** Edit maintenance master data, Maintenance plan.

Buttons

Button	Description
Open	Open maintenance order.
Today	All active maintenance orders, which are due today or were already due earlier.
In work	All maintenance orders with status "In work".
Planned	All maintenance orders with status "Planned".
All	All maintenance orders (not in Terminal mode).
Add	Create a new maintenance order (not in Terminal mode).

© 2026 Boyum IT Solutions A/S

17.4 WEB APPS Version 2.1

Factory data capture provides an up-to-date overview on all work orders. It is used for a simple reporting of work order times, statuses and quantities, goods issue and receipting, and retrieving various inventory information.

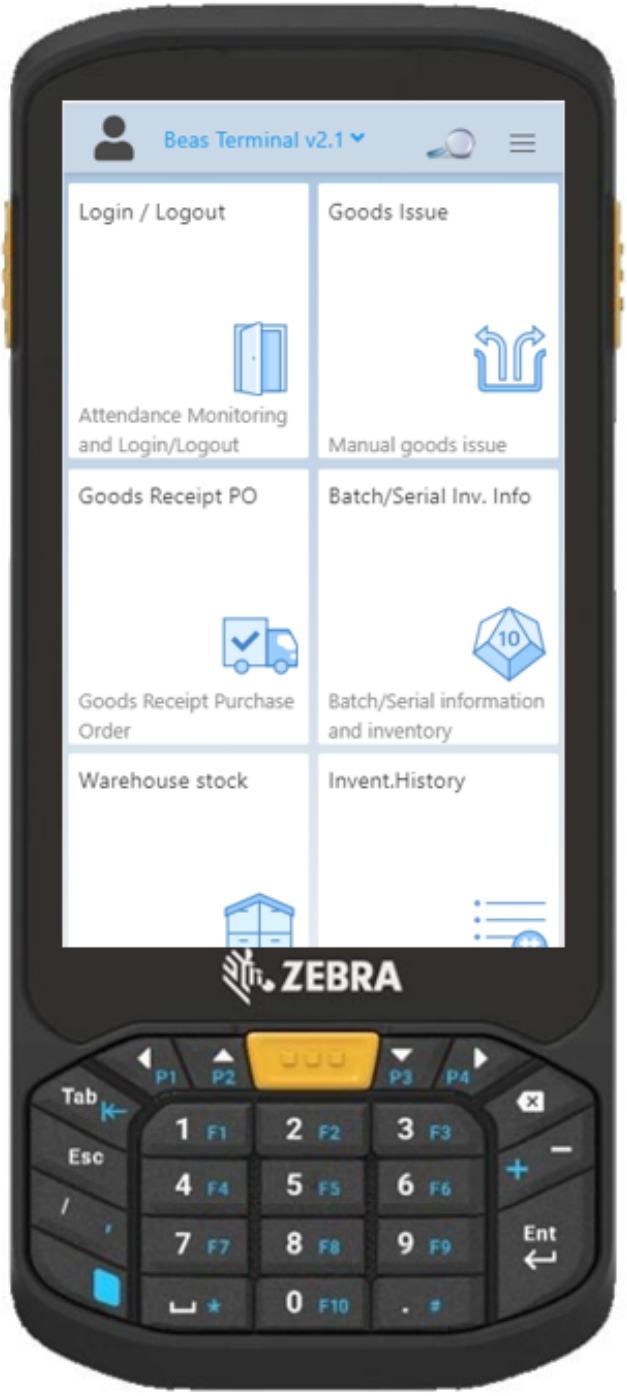
See License information.

WebApps Webinar (English)
WebApps Webinar (Spanish)
WebApps Webinar (German)

Data can be registered via WEB and PC. Functions are made available in "Apps" collected in the program group "Terminal".
Web applications version 2.1 is accessible with any hand-held smart device such as smart-phones, tablets, and desktop computers.

Our main device is Zebra TC20 with keyboard.
Upon logging into the terminal, the apps available to the user appear in the screen:

© 2026 Boyum IT Solutions A/S



Installation of WebApps on Zebra TC20:

For a detailed description ***see*** Installation on Zebra TC20

Open WebApps from inside SAP B1:

1. Go to **Tools > Web Server**.

© 2026 Boyum IT Solutions A/S

2. The system does automatic port search.
3. Click on WEB Application Version 2.1, and your default browser will open the login screen. Enter a card number.
4. Do not close the WEB Server window in SAP B1 while working with the apps.

Sytem requirements:

The mobile solution is conceived for the use of mobile terminal devices.

Component	Requirements
Operating system and browser	Any Operating system with a browser capable to run HTML5/CSS3/ES6: - Chrome 70+ - Edge 17+ - FF 63+ - Safari 11.1+
Resolution	The minimum recommended resolution is 360x640. A higher resolution is recommended.
Used technology	HTML5, CSS3, Java script ES6
Web server	Internal Beas Web Server

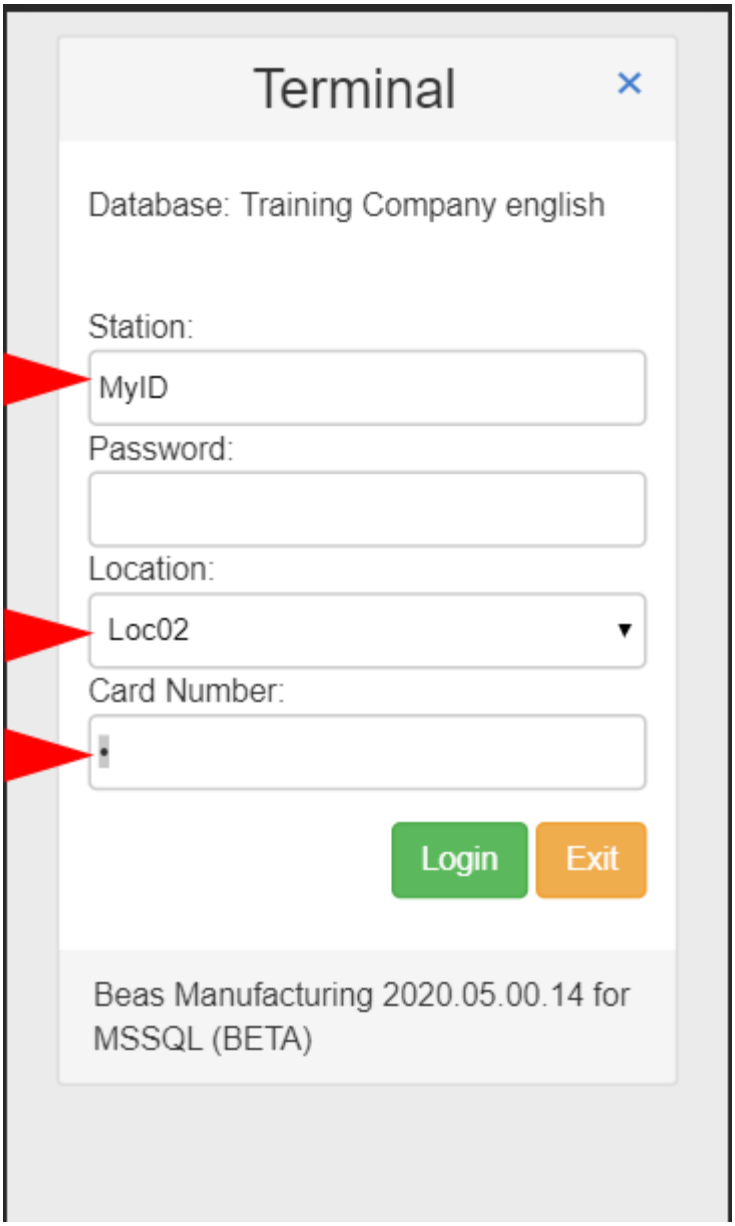
See Integration with SAP Business One Web Solution

17.4.1 General information

Login to the terminal

You can log in to the Terminal in the Login screen, where Station/Location/Card Number information is saved as a cookie in the local machine.
Next time you try to log in, the system pre-fills those values with the last one you logged in.
This is especially useful for the "Location" field.

© 2026 Boyum IT Solutions A/S



To log in with **Personnel name + Password**, go to setting for terminal20 in Program group definition.

General controls:

The following controls are provided with the solution.

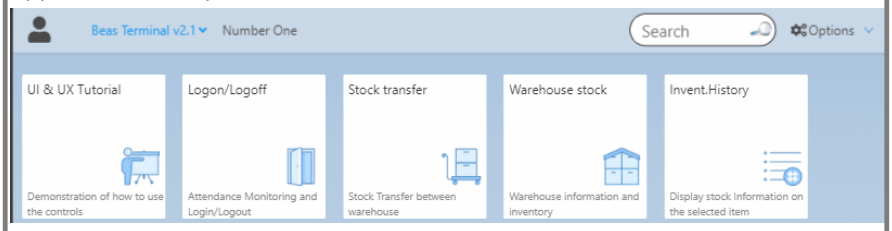
Note: The number of controls inside an app may vary depending on its complexity.

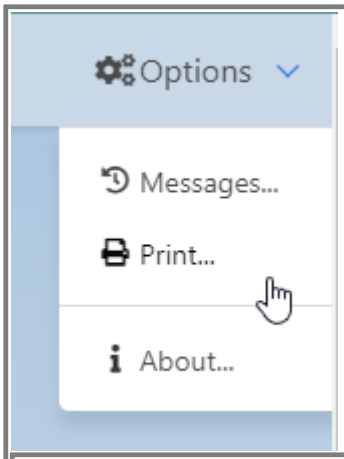
© 2026 Boyum IT Solutions A/S

Screen attributes

Field / Button	Description
Home button	Tapping on the **Home** button always navigates back to the starting screen with all WebApps available for the user.
Search field	Visible in the main menu. With this search field you can do a quick search to find an app in the Terminal. On smaller devices with limited screen size, the function appears as a magnifying glass icon in the top right screen section.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field / Button</th><th>Description</th></tr>
<tr><td></td><td>Tap on it to open the field. On larger screens, the function automatically appears as an input field (see GIF below).
 

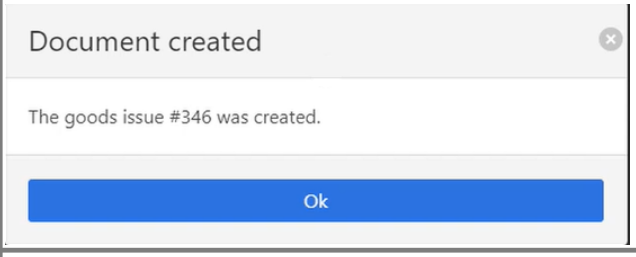
Note: Search hits only display the apps available to the user.</td></tr>
<tr><td>Terminal name with drop-down</td><td>In the main menu of the terminal tap on Beas Terminal v2.1 drop-down for two functions:
- Reload application = reload the entire terminal
- Logout = log out current user.</td></tr>
<tr><td>Options</td><td>Options visible in the main menu of the terminal.
Tap on the Options drop-down (on smaller displays) to see menu options
 

<table>
<tr><td>Messages...</td><td>List of the following information regarding Last transactions:<table>
<tr><td>Request</td><td>The type of request registered in the terminal</td></tr>
<tr><td>AppID</td><td>Application name</td></tr>
</table></td></tr>
</table></td></tr>
</table>

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field / Button</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td><table><tr><td>Status</td><td>Status of the request</td></tr></table></td></tr>
<tr><td>Print...</td><td>Printer options:
- Location: From the drop-down menu, select which printer you wish to use for the documents created by the terminal
- Last printed jobs: List of completed prints of documents from the terminal with description and Date/Time marking.</td></tr>
<tr><td>About...</td><td>Current Beas Manufacturing version and WebApp version information.</td></tr>
</table>
</td></tr>
<tr><td>App name with drop-down</td><td>Tap on the drop-down to select "Reload this application".</td></tr>
<tr><td>

Save button</td><td>After adding all the lines to a single document, tapping the Save button creates the document.
Note: The Save button remains inactive (

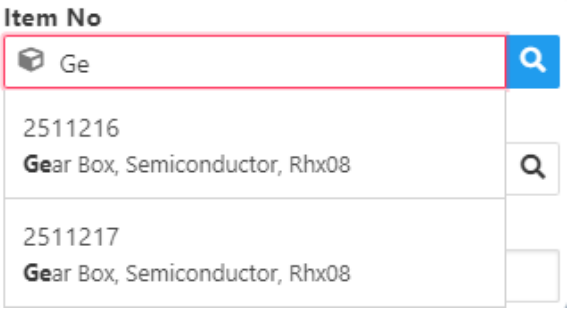
) until all mandatory information are filled for the line currently being edited. It is also inactive at apps designed for providing information only.
Document creation is verified with a message box:
 
</td></tr>
<tr><td>
Plus icon</td><td>Add lines to the document.
Note: It is not possible to tap on the plus icon multiple times in a row: If a blank Line(s) tab opens, all mandatory information have to be entered before proceeding in creating another line.</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field / Button	Description
Tabs	When opening an app, there is a number of tabs to enter information. The active tab switches to the next one in sequence once all necessary information have been entered or selected.
Magnifying glass icon	When active, the magnifying glass is of blue color – ***see*** image above. Tapping on it opens a new Search/Filtering screen for the given field, and a full catalog of items appears with a Filter field to narrow down the search.
Extended information	When active (blue), it opens a screen for extended information. ***See*** further details on Extended information screen below.
Trash can icon	Delete a line from the current document.
1 / 16 Navigation bar	With the help of the navigation bar controls found bottom center in filtering screens, it is possible to scroll a list to find an item.

The behavior of the fields

The search/filtering fields use auto-completion; you can start typing the name of the entry, and a number of entries matching the already typed characters will be displayed (***see*** image below). Alternatively, you can tap the magnifying glass button and select an item from the list.



Mandatory fields: The system indicates that mandatory information is to be added for the current item line with a red frame around the field.

Other item-specific fields: The related item-specific fields become active only after providing mandatory information, and only if the field is applicable at the current item.

Examples: (1) Warehouse information field is only activated after Item Number is entered.

(2) At a version-managed item, the I-version field is also activated when Item Number is entered.

(3) Bin Location field is only activated if bin locations for the selected warehouse exist.

Limitation:

© 2026 Boyum IT Solutions A/S

UDFs are not supported.

17.4.1.1 Batch/Serial Extended Information screen

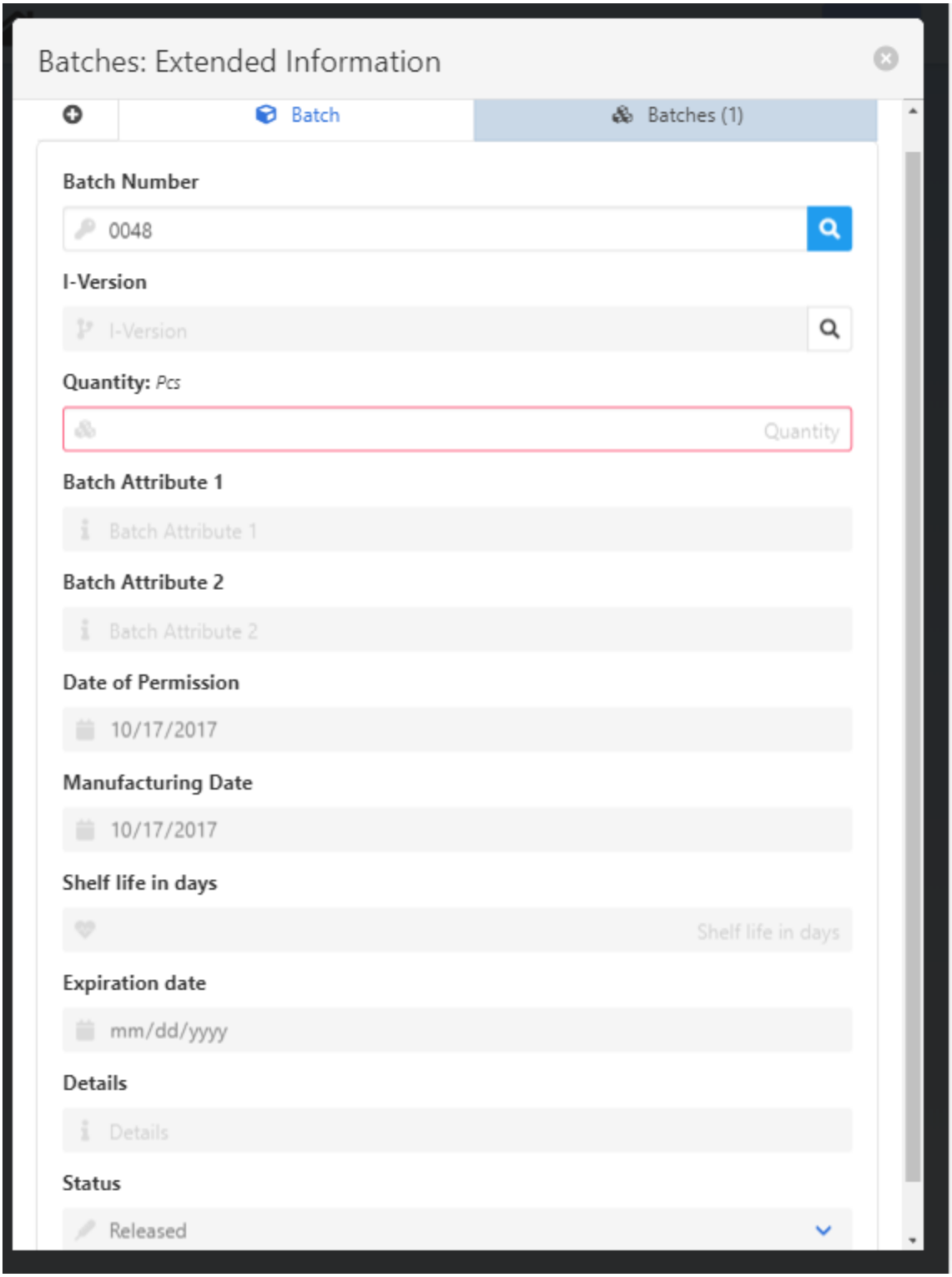
The icon opens a list of further attributes on the selected batch/serial in another screen in the apps.

Batches: Extended Information
Serials: Extended Information

17.4.1.1.1 Batch Extended Information

In this pop-up screen you can access and/or enter several batch-related information.

© 2026 Boyum IT Solutions A/S



Batches: Extended information fields

Field Descriptions

© 2026 Boyum IT Solutions A/S

Field	Description
+	Add details for another batch. The new batch will, then, appear in the "Batches (x)" tab on the right.
Batch Number	Batch number
I-Version	Item version
Quantity	Quantity of the selected batch
Reserved	- visible in Tablet and Desktop Batch quantity reserved for the current WO position (WO Goods issue app)
Reserved Total	- visible in Tablet and Desktop Total reserved batch quantity.
Batch Attribute 1	Batch attribute description 1 WMS Batch attribute support **WMS Integration:** Beas Manufacturing WebApps support WMS Batch Attributes. After inserting a Batch Number, the system checks the mandatory attributes. If such attribute is saved for the batch, the field frame turns red, indicating the missing of mandatory information. All field types (String, Date, List, Numbers) are supported. ***See*** Batch Extended Information srceen. **WebApp support:** WO Goods Receipt WO Backflushing WO Stop Wo Time Receipt Goods Receipt
Batch Attribute 2	Batch attribute description 2 WMS Batch attribute support **WMS Integration:** Beas Manufacturing WebApps support WMS Batch Attributes.

© 2026 Boyum IT Solutions A/S

Field	Description
	After inserting a Batch Number, the system checks the mandatory attributes. If such attribute is saved for the batch, the field frame turns red, indicating the missing of mandatory information. All field types (String, Date, List, Numbers) are supported. ***See*** Batch Extended Information srceen. **WebApp support:** WO Goods Receipt WO Backflushing WO Stop Wo Time Receipt Goods Receipt
Date of Permission	
Manufacturing Date	Mandatory field for the date of manufacturing. The "Shelf life in days" and "Expiration date" are calculated based on this information.
Shelf life in days	Define shelf life in days. When you provide this information, the system automatically calculates the expiration date.
Expiration date	Counted based on the number of shelf life days added to the manufacturing date. Changing the expiration date will also automatically calculate the number of shelf life days. Note: in Goods Receipt and WO Goods Receipt apps when the item master data field "Shelf life in days" is equal to 0, Beas leaves this field empty.
Details	Further details
Status	- Locked - Not Accessible - Released

Availability of fields

We can group applications in 3 fundamental modes concerning the behavior and availability of the fields found in the "External information" screen:

© 2026 Boyum IT Solutions A/S

Issue mode: Goods Issue, WO Goods Issue, Stock transfer
Receipt mode: Goods Receipt, GRPO, WO Goods Receipt
Information mode: all other apps with a batch / serial field

Mode	Description
Issue mode	Only the batch/serial number and quantity fields are active. The rest of the fields are read-only. It is possible to add multiple batches and serials with the "+" icon.
Receipt mode	All fields are active and editable. Note: "Version" field is only editable in case the item has a version. ***See*** Item Version
Information mode	All fields are read-only.

Note: Only Released batches are displayed in the following apps:
- Allocation
- Goods Issue
- Picking List
- Picking SO
- Reservation
- StrockTransfer
- WO Backflushing
- WO Time Receipt
- WO Goods Issue
- (class_batches.js) Generic library to deal with more than one batch per line

17.4.1.1.1.1 Batch Attribute support (WMS)

WMS Integration:
Beas Manufacturing WebApps support WMS Batch Attributes.
After inserting a Batch Number, the system checks the mandatory attributes. If such attribute is saved for the batch, the field frame turns red, indicating the missing of mandatory information.
All field types (String, Date, List, Numbers) are supported.
See Batch Extended Information srceen.

WebApp support:
WO Goods Receipt
WO Backflushing

© 2026 Boyum IT Solutions A/S

WO Stop

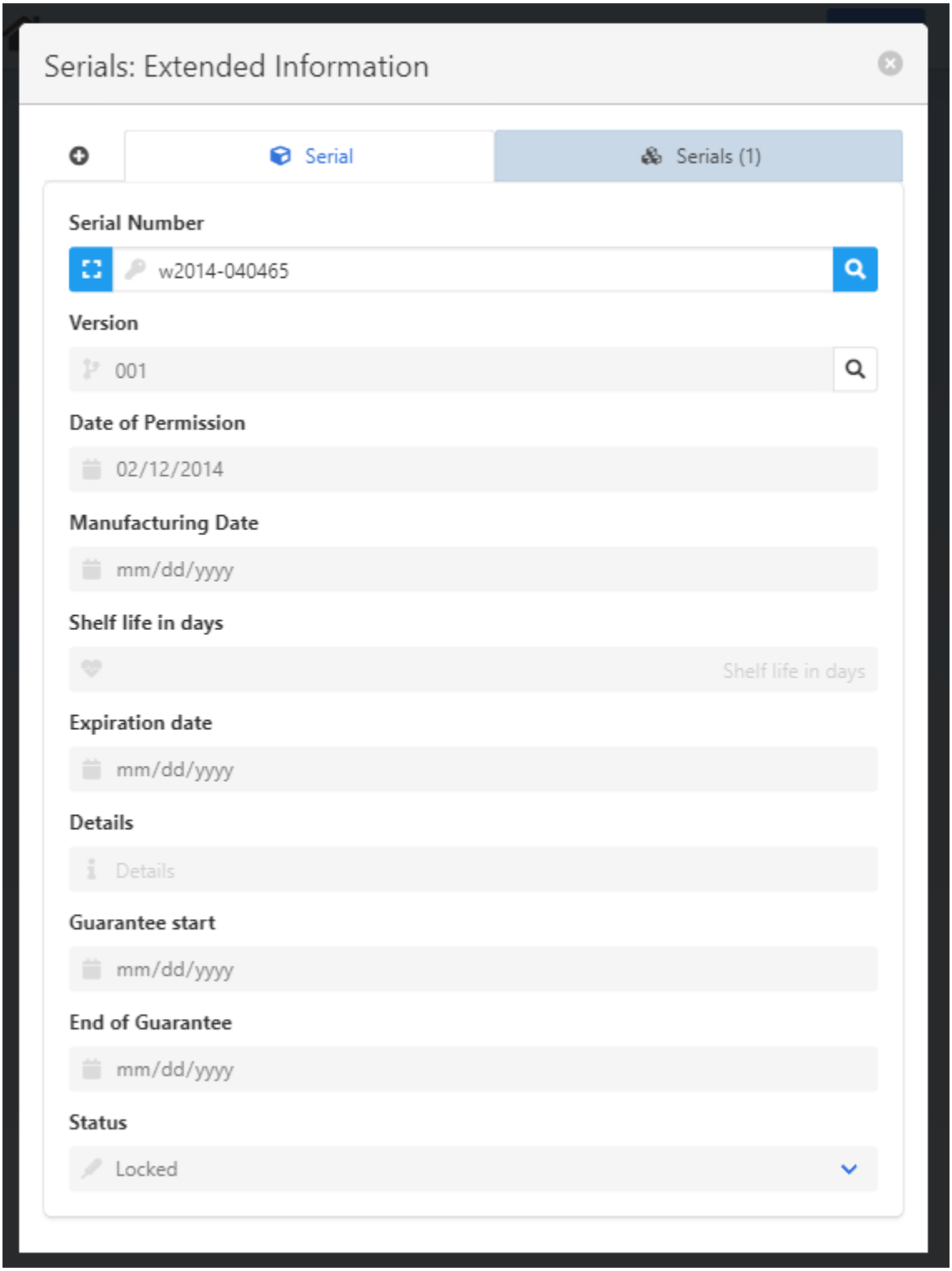
Wo Time Receipt

Goods Receipt

17.4.1.1.2 Serial Extended Information

In this pop-up screen you can access and/or enter several serial-related information.

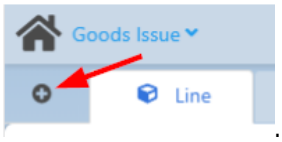
© 2026 Boyum IT Solutions A/S



Serials: Extended information fields

Field Descriptions

© 2026 Boyum IT Solutions A/S

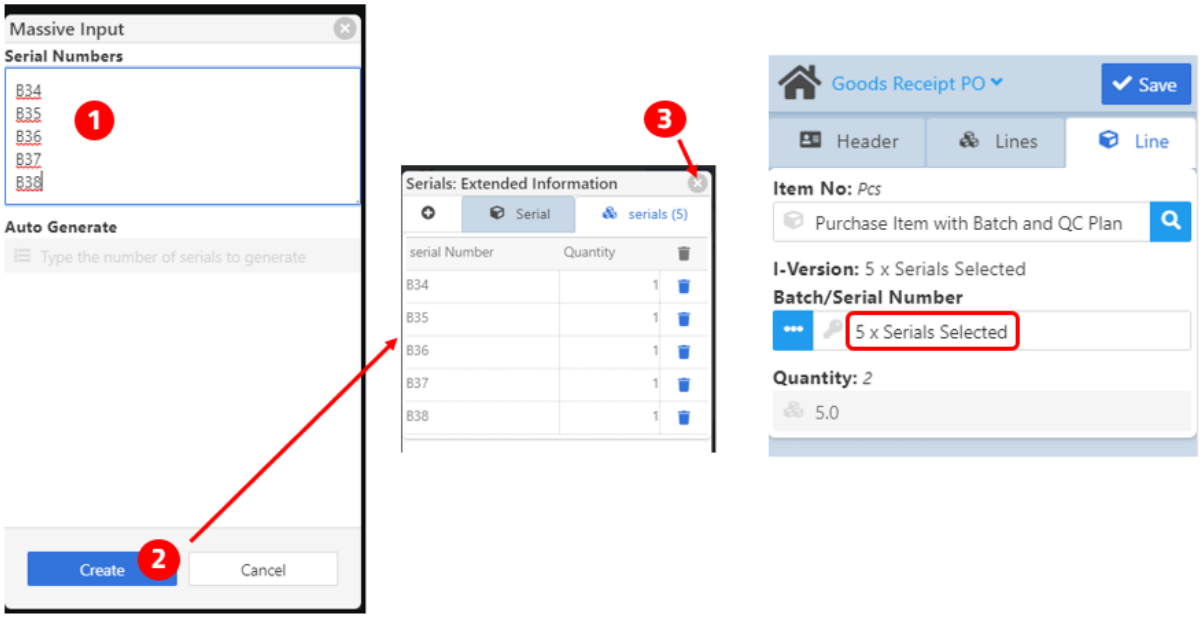
Field	Description
+	Add details for another serial number. The new serial will, then, appear in the "Serials (x)" tab on the right. **IMPORTANT:** If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+": 
Serial Number	Serial number
Version	Item version
Date of Permission	
Manufacturing Date	Mandatory field for the date of manufacturing. The "Shelf life in days" and "Expiration date" are calculated based on this information.
Shelf Life in days	Define shelf life in days. When you provide this information, the system automatically calculates the expiration date.
Expiration date	Counted based on the number of shelf life days added to the manufacturing date. Changing the expiration date will also automatically calculate the number of shelf life days.
Details	Further details
Warranty start	Customized field for items with a warranty period.
End of Warranty	Customized field for items with a warranty period.

Massive input of serials:

It is possible to scan / input and auto-generate a number of serial numbers when creating a Goods Receipt PO document. After selecting a line with a Batch/Serial managed-item in a Purchase Order,

© 2026 Boyum IT Solutions A/S

the "Serials: Extended Information" screen opens. Tapping on the icon opens the "Massive input" screen:

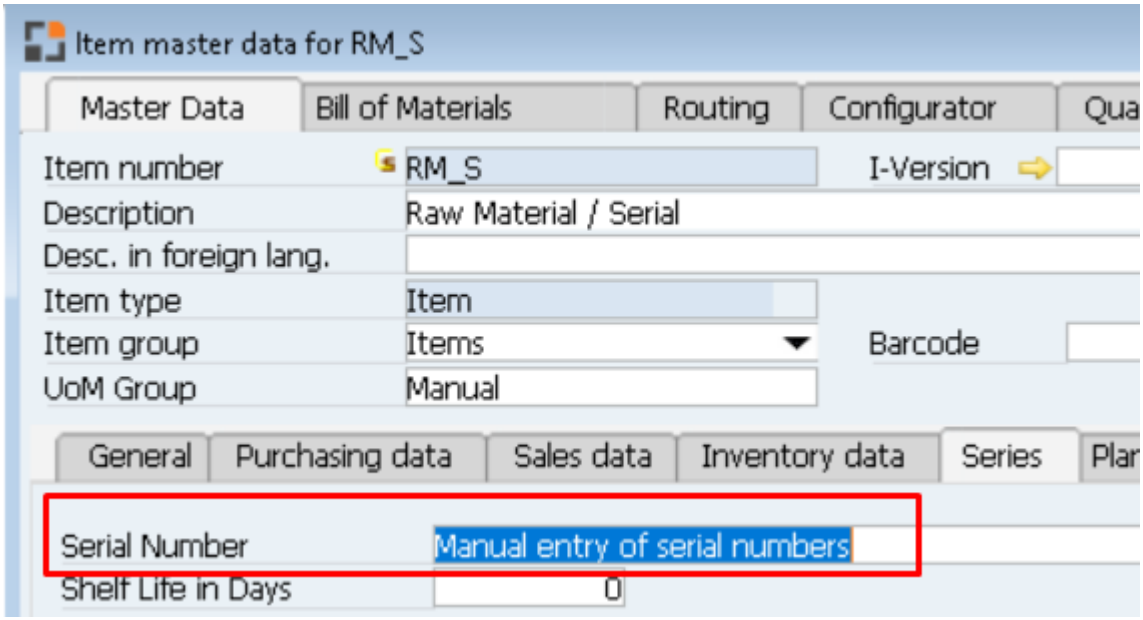


The Process:

1. Input / Scan serial numbers
2. Tap button "Create" to create serial numbers in the system for the received items
3. Close the "Serials: Extended Information" screen
4. The serials have been created.

> Note: For the Massive input of serials you need to select "Manual entry of serial numbers" in **Item Master > Master data tab > Series tab > "Serial Number**" field:

© 2026 Boyum IT Solutions A/S



After finishing this process for each PO item of a selected Purchase Order, and clicking Save, you can create another Goods Receipt PO document starting with the Header tab.

Availability of fields

We can group applications in 3 fundamental modes concerning the behavior and availability of the fields found in the "External information" screen:

Issue mode: Goods Issue, WO Goods Issue, Stock transfer

Receipt mode: Goods Receipt, GRPO, WO Goods Receipt

Information mode: all other apps with a batch / serial field

Mode	Description
Issue mode	Only the batch/serial number and quantity fields are active. The rest of the fields are read-only. It is possible to add multiple batches and serials with the "+" icon.
Receipt mode	All fields are active and editable. Note: "Version" field is only editable in case the item has a version. ***See*** Item Version
Information mode	All fields are read-only.

Note: Only Released batches are displayed in the following apps:

- Allocation
- Goods Issue

© 2026 Boyum IT Solutions A/S

- Picking List
- Picking SO
- Reservation
- StrockTransfer
- WO Backflushing
- WO Time Receipt
- WO Goods Issue
- (class_batches.js) Generic library to deal with more than one batch per line

17.4.1.2 Asynchronous Working

If the WEB client starts a transaction, the WEB Server must create the SAP Transaction, which can take long.
With the Asynchronous working, the WEB Server moves the SAP Transaction request to the Beas Common Service and returns a request ID only.
In this case, the WEB Client and the WEB Server do not need to wait for the SAP Transaction.

The client itself can wait for the result (Standard), but this does not block the WEB Server.
The Common service executes the SAP Transaction if the Service has time and returns the result back to the WEB Server.

If the client asks for the result, the WEB server sends this to the client and the client can display the result.

General information about Asynchronous Working:

Settings
- Activate "Asynchronous Processing" in **Administration > Utilities > Beas Manage Server > Extended tab**.
- Activate Common Service in **Tools > Web Server**.
- Go to **HR > Personnel Master Data > Terminal functions > Open Program group: Terminal20 > "Basic settings" button**. Set parameter WebApps Common Service Result Behavior.
  Time to wait (sec.): Define the time on how many seconds the app should wait before moving on to the next transaction.

See more details on the setup of asynchronous working in this video:

- More about Common Service

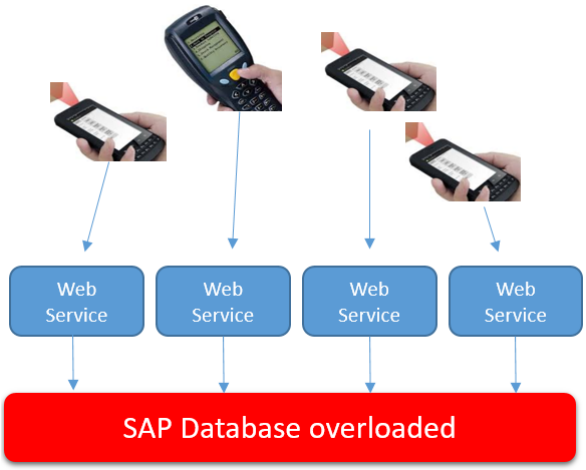
© 2026 Boyum IT Solutions A/S

The functionality of Beas Common Service

- print asynchronously (Example WEB Application)
- create all SAP transactions asynchronously (Example WEB Application)
- simple interface to third applications.

The concept of asynchronous operation

If lots of clients are working in **parallel** with the SAP Transaction on one SAP Table, it does not work because SAP must lock the database for every transaction.
This working tends to get unstable causing long waiting time for clients.

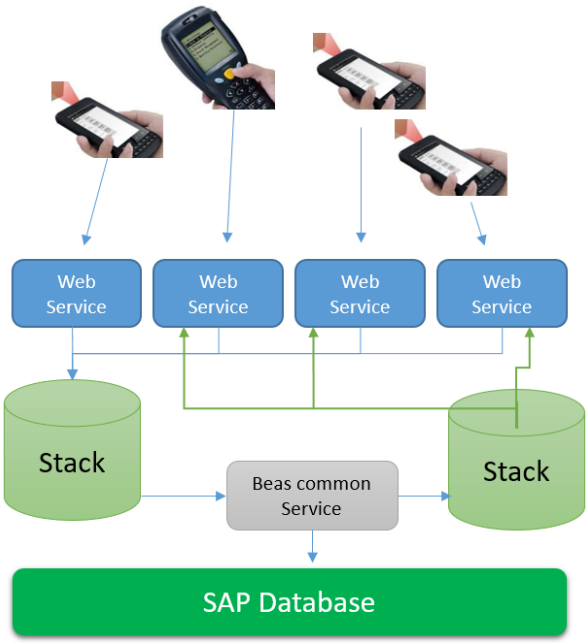


In the Beas common service work is carried out with a stack. Every service sends the transaction command in this stack.
The Beas common service executes this in SERIAL and not PARALLEL.

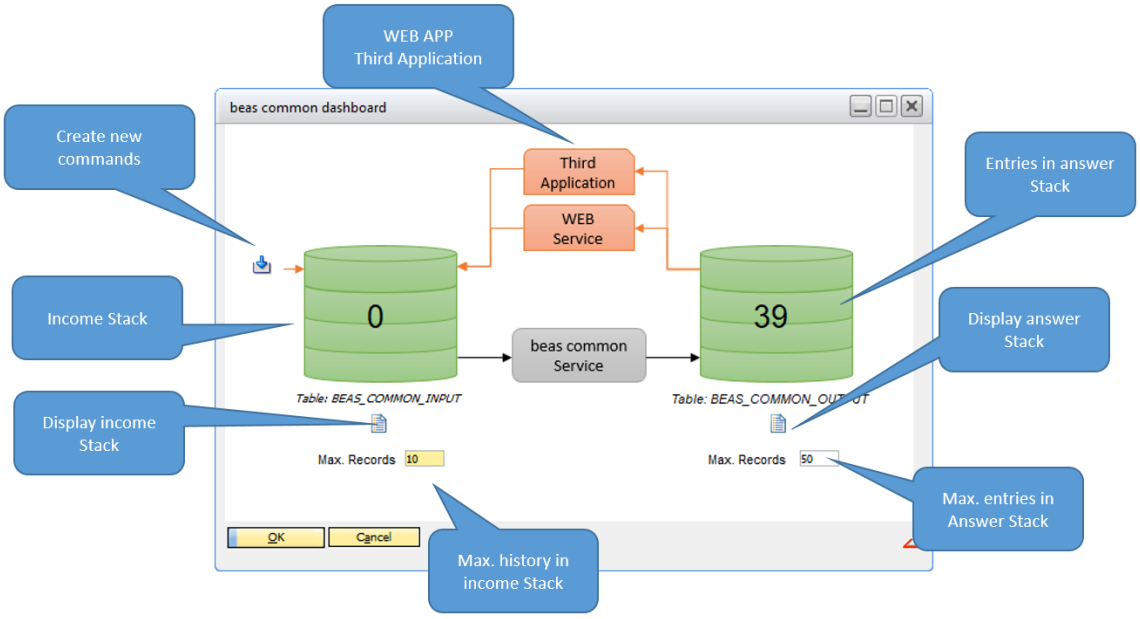
This does not create deadlocks or an overload of the database and results in stable execution.
The worker does not need to wait for a response and can continue since the web service does not execute the transaction itself.

The Beas common service sends the answer (good, docentry number, error message etc.) in an answer stack.
The client can check if an answer is available at any moment, and can display it in the window (= synchronous working).

© 2026 Boyum IT Solutions A/S

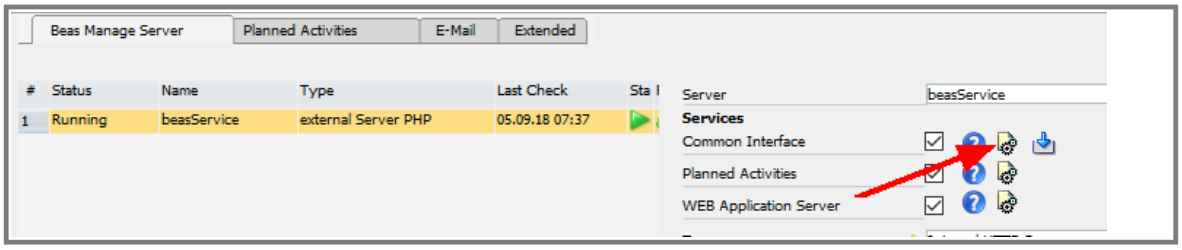


In Beas you can see the current stack in the Beas common dashboard.



To open the Beas common dashboard from Beas manage server, click on the configuration Icon ***see*** image below.

© 2026 Boyum IT Solutions A/S



The WEBAPP print solution also uses the asynchronous concept.

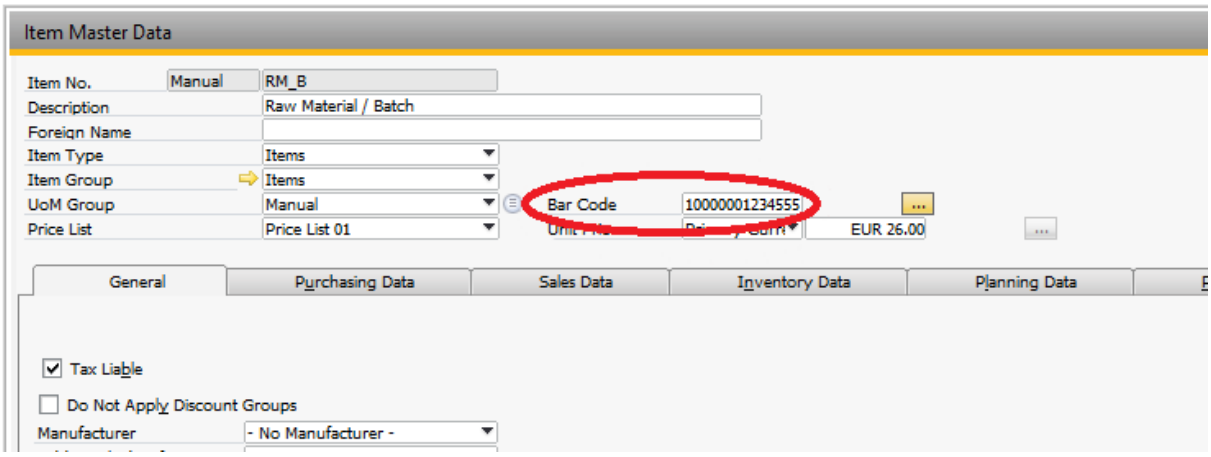
Beas 2020.02

17.4.1.3 GS1-128–standard Bar Code Support

Terminal WebApps version 2.1 uses GS1-128 (formerly UCC/EAN-128) global bar code standard to match item codes from the item master data.

Frist step: Create a GTIN bar code in the Item Master data

Beas uses GTIN (EAN-14) bar codes for item identification. For the further encoding of GS1 standard, a 14 digit-bar code must be set up in the Item Master Data (***see*** image below). The item code identifier in this case is "01": **01**01234567891552



Window: artikel_edit.psr, artikel_edit_barcode_master.psr

- Currently the following applications are supported by the GS1 standard:

- Goods receipt
- Goods issue

© 2026 Boyum IT Solutions A/S

- Batch/Serial Inv. Info
- Warehouse Stock
- WO Backflushing
- WO Time Receipt
- Allocation
- Goods Receipt PO
- Inventory Counting by list
- Inventory Counting by item
- Pick Delivery
- Picking List SAP
- Picking SO
- Reservation
- Stock Transfer
- Stock Transfer Request

A GS1-128 symbol comprises of one or more Application Identifiers (AI) to indicate the type of data encoded inside.
For more information on GS1-128 ***open*** the link GS1-128 Bar codes.

Application identifiers (AI)

Within the GS1 standard, AIs are used to prefix the encoded data. In the Terminal WebApps, we use 14-digit numeric characters as bar codes and the AI "01" denotes the alphanumeric information to match a specific code to the item master data. In the Terminal we use the following application identifiers to match item codes when using bar codes:

AI	Description/FieldName	Data Format
Ê00	SSCC (Serial Shipping Container Code)	18 digit - numeric
Ê01, **Ê**02	Bar code search and insert Item code	14 digit – numeric
Ê10	Batch Number (or Serial Number)	1-20 alphanumeric
Ê21	Serial Number	1-20 alphanumeric
Ê30	Quantity Each	–
Ê11 (not in Goods Issue / Transfer)	Manufacturing Date	6 digits: YYMMDD

© 2026 Boyum IT Solutions A/S

AI	Description/FieldName	Data Format
Ê13 (not in Goods Issue / Transfer)	Date of Permission	6 digits: YYMMDD
Ê17 (not in Goods Issue / Transfer)	Expiration Date	6 digits: YYMMDD
Ê20 (not in Goods Issue / Transfer)	Version	2 digits
Ê241	ItemCode	N3+X..30
Ê400	Customer Purchase Order	1-29 alphanumeric

These AIs are added to the 14-digit code to make up the entire bar code information.
Note: the AI(400) allows the input of only 29 characters instead of the 100 available in SAP in the Header tab. To be able to use this AI for Customer Purchase Order Number information, reduce characters to max. 29.

For further Application Identifiers ***see*** Application Identifier Values.

- Bar code structure

In SAP B1 it is possible to create bar codes for the single items in **Inventory > Bar Codes**. Besides Item number filtering, there is a button "Bar Code List" to help manage bar codes. Once the 14-digit numeric code is saved in the system, the item number is ready for bar code generation according to the GS1 standard.

Examples:
1. Bar code for serial-managed item with the serial name at the end of the string:

(01) + the fourteen-digit bar code stored in SAP + (21) + serial name

2. Bar code for a batch-managed item with the batch number at the end of the string:

© 2026 Boyum IT Solutions A/S

(01) + the fourteen-digit bar code stored in SAP + (10) + Batch number

3. To generate Quantity in the end of the bar code, place backslash as an end of string character + add the number of items to the string. The following example is a bar code for a batch-managed item with batch number and quantity at the end of the string:

(01) + the fourteen-digit bar code stored in SAP + (10) + Batch number + (30) + quantity.
In this case the bar code reads 23 items in Batch01 to process in the terminal.

- Bar code structure in WebApps 2.1

In the following section you can see examples of how the 14-digit GTIN (EAN) code is constructed with application identifiers in the defined fields of certain webapps.

Example 1:

Stock Transfer:

0101234567891552**10**0528**Ê30**5

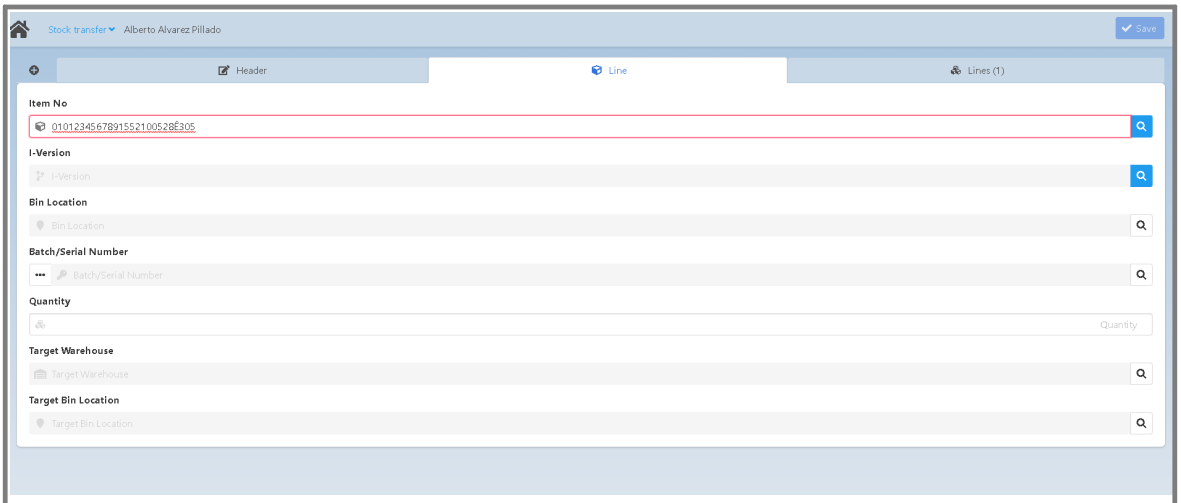
01 – ItemCode Identification

10 – Batch Identification

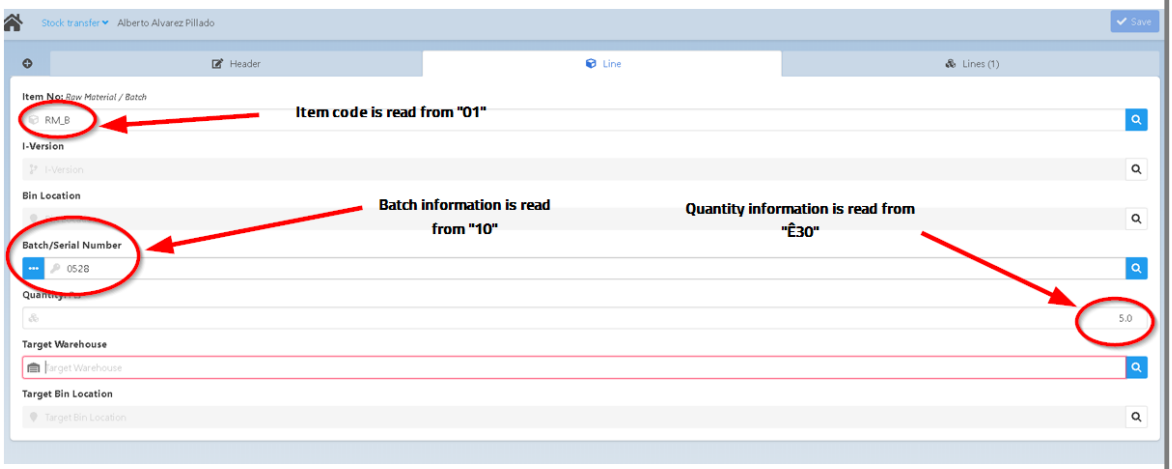
Ê30 - Quantity

1. Add the bar code in the Item No field of the Line tab:

© 2026 Boyum IT Solutions A/S



2. Bar code is read by WebApp as follows:



Example 2:

Goods Receipt PO:

0101234567891552**10**0528**Ê30**5

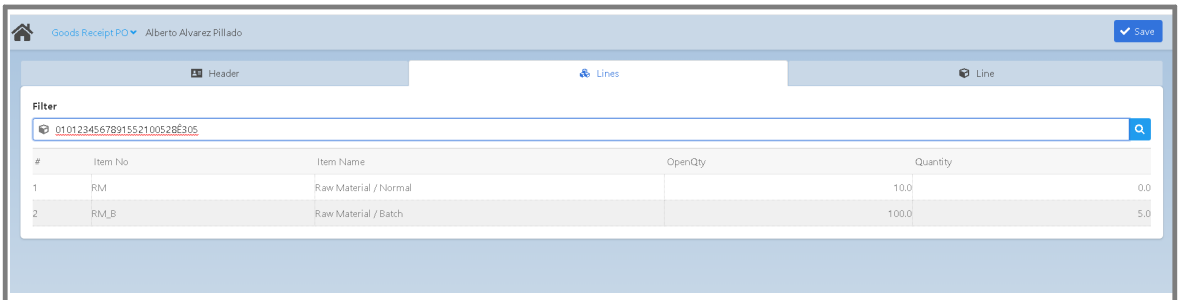
01 – ItemCode Identification over Bar code ID from the item

10 – Batch Identification

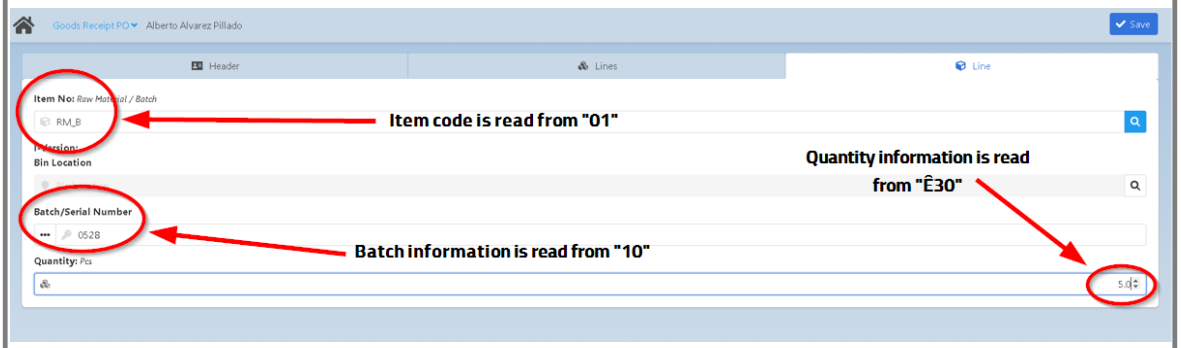
Ê30 - Quantity

1. Add the bar code in the Filter field of the Lines tab:

© 2026 Boyum IT Solutions A/S



2. Bar code is read by WebApp as follows:



Example 3

Goods Issue:

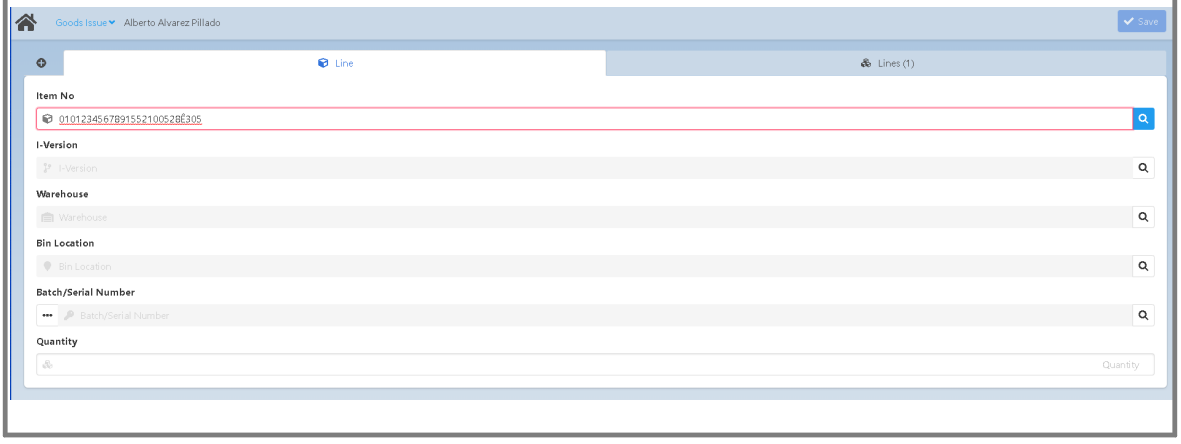
0101234567891552**10**0528**Ê30**5

01 – Item Code Identification

10 – Batch Identification

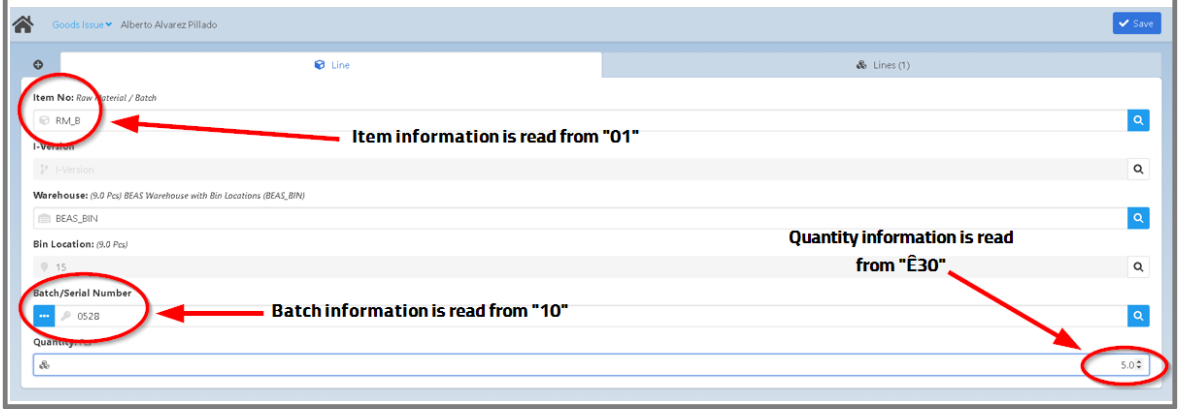
Ê30 - Quantity

1. Add bar code in the Item No field of the Line tab:



© 2026 Boyum IT Solutions A/S

2. Bar code is read by the WebApps as follows:



Using multi-line bar codes with Zebra TC20

Zebra TC20 is able to scan Multi-line bar codes. To do so, the function has to be activated in the device. Once activated, the device is ready to read the pre-defined number of bar codes to complete a sequence.

Note: the scanner can only be used to scan multi-line bar codes or single bar codes at a time.

Device configuration to scan a number of bar codes:

1. Open Apps search on Zebra TC20
2. Tap the App "DataWedge" ***See*** image 1. below.
3. Tap the default Profile.
4. Select the "Reader params" menu item.
5. Scroll down to select "Scanning Modes". It is possible to define a "Single" or "MultiBarcode" function. ***See*** image 2. below.
6. Go back to the main menu and select "Multibarcode params" option to define the number of bar codes. ***See*** image 3. and 4. below.

Image 2.

© 2026 Boyum IT Solutions A/S

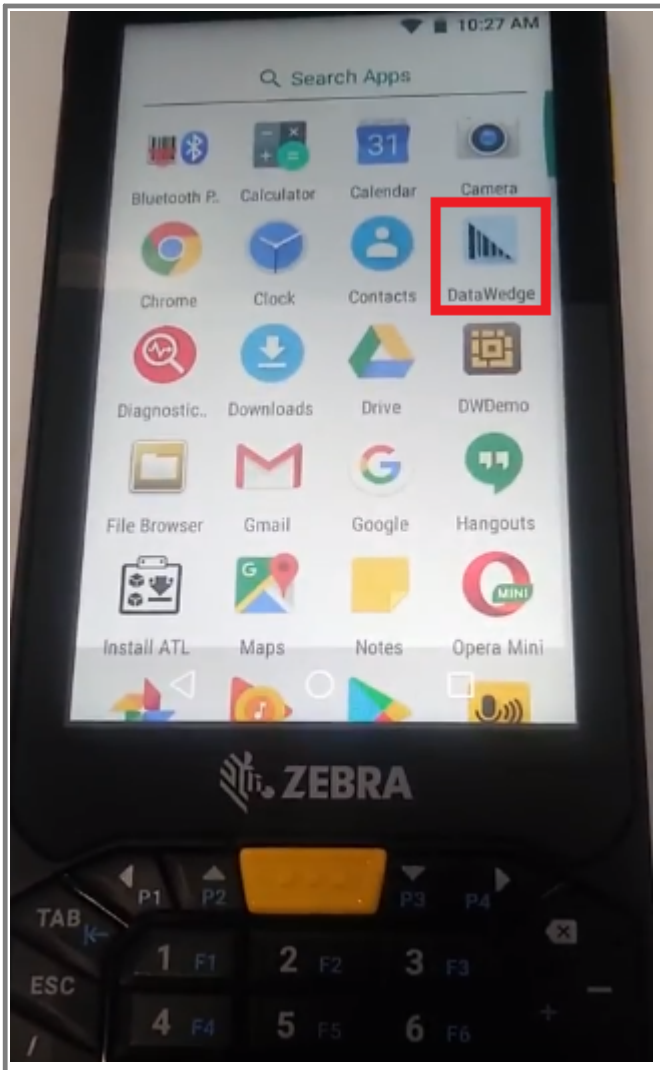


Image 1.

© 2026 Boyum IT Solutions A/S

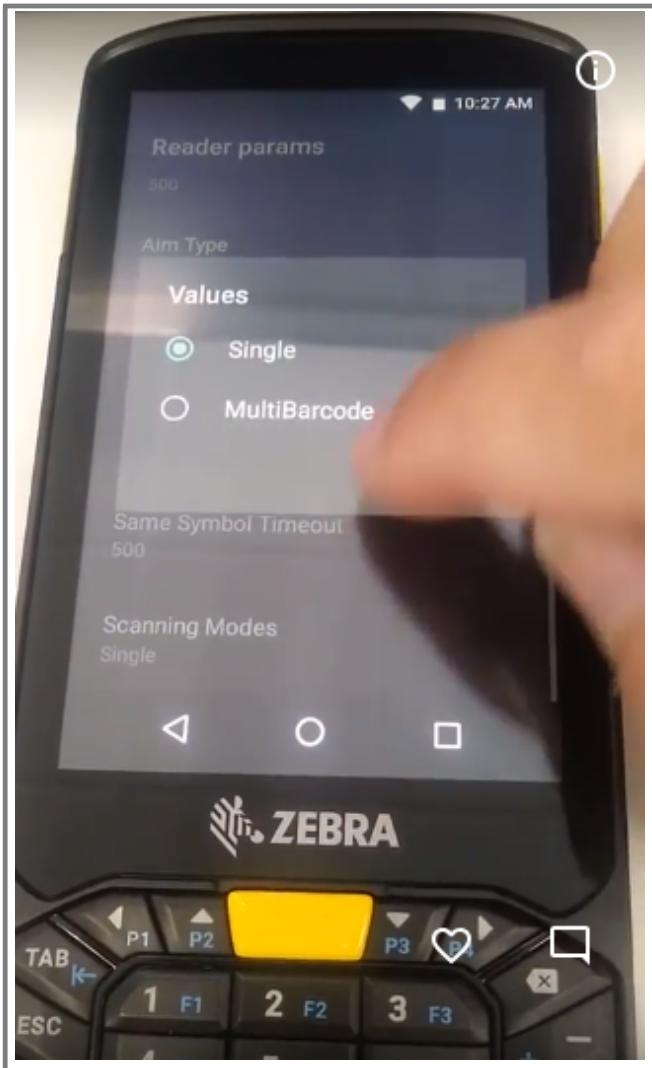


Image 2.

© 2026 Boyum IT Solutions A/S

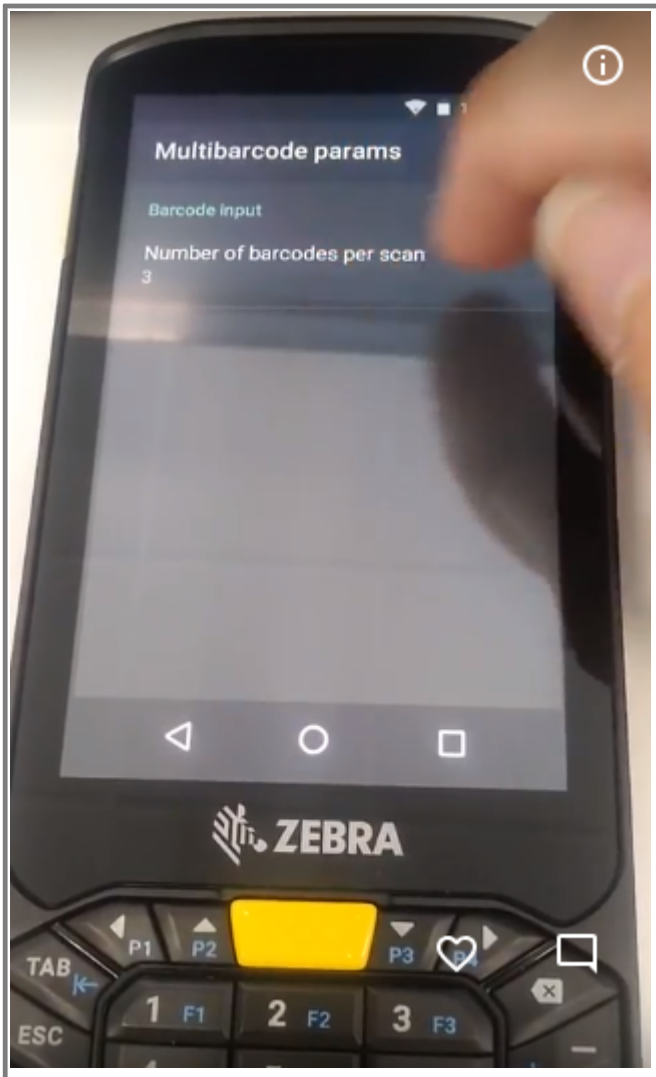


Image 3.

© 2026 Boyum IT Solutions A/S

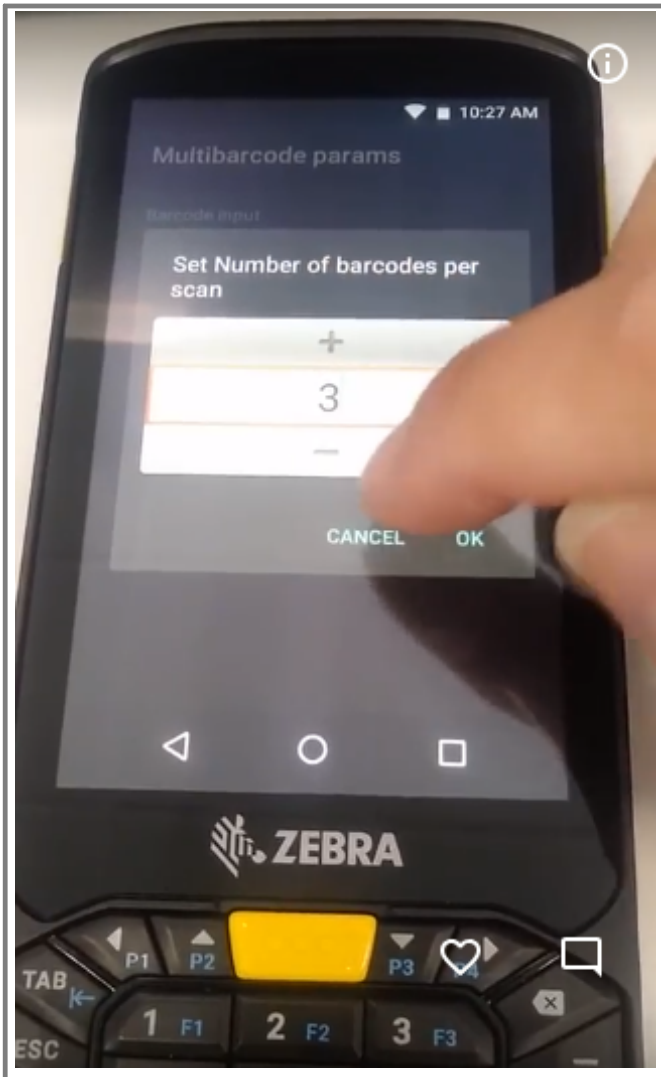


Image 4.

In work order the system defines a bar code for

- Work order position
- Bill of Materials position
- Routing position

You can display every Bar code in the work order document (by customizing with Crystal report)

© 2026 Boyum IT Solutions A/S

TrainingDataBAse

Routing Card 6002482/40, Sales Order

Customer: C001 Custome 001
Quantity: 1.00 Pcs
Order date: 01/11/2021
Delivery Date: 01/11/2021
Priority:

Item no: FP
Item name: Finished Product / Normal
Version:
Drawing number: test46

Bill of Materials

Pos	Item number	Description	Quantity	Warehouse location
10	RM	Raw Material / Normal	1.00 Pcs	01
20	RM_B	Raw Material / Batch	3.60 Pcs	01
30	RM_S	Raw Material / Serial	1.00 Pcs	01
40	RM	Raw Material / Normal + own description	-1.044.00 Pcs	01

Routing

Pos	CstCtID	Resource	Description	Setup	JT	Total
10		R-01-1T.STD	Internal Operation With QC - Standard (default Resource only) - Setup for Capacity - 1 Time Type - Sampling per Time	5.00	25.00	30.00 Min
20		R-EX	External Operation	0.00	0.00	0.00 Min
30		R-01-1T.STD	Internal Operation STND001 - Standard (default Resource only) - Setup for Capacit - 1 Time Type - No QC Inspection Plan	5.00	25.00	30.00 Min

Time Receipt
Routing Card

In all Work order apps you can choose the work order / work order position with all 3 bar code types.

Scanner can be used for:

Bar code	App behavior
BoM position	Only BoM bar codes are allowed if the first scanning was a BoM bar code. The app displays the scanned line only.
Routing position	When scanning a Routing position, the app loads the WO position but only displays the lines that are linked to the scanned routing position.
Work order position	When scanning a Work order position, the app displays all the lines belonging to that position.

© 2026 Boyum IT Solutions A/S

17.4.1.4 Bin Management Support

Receipt Rules
Issue Rules

Limitation of Beas Bin Management:
- RFID definition is not supported
-Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.

Limitation of SAP Bin Management:
- not all Bin Rules are supported in the current view
- Weight/Volume are currently not supported in the current view
- Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.

17.4.1.5 Installation on Zebra TC20

Installation of the Terminal WebApps v.2.1 mobile application consists of a few steps.

1. Open the Chrome web browser on Zebra TC20.
2. Enter Card Number on the Beas Web Terminal 2.1 login screen and tap the **Login** button.
3. The WebApps home screen appears with the IP address in the Google Chrome search field on the top. ***See*** image 1. below.
4. Tap for Options in the top right corner of Chrome.
5. Scroll down and tap "Add to Home screen" menu item. ***See*** image 2. and 3. below.
6. A notification appears: "Beas Terminal v2.1 was added to your Home screen"
7. Close Chrome browser and start terminal application from the home screen of the Zebra device.

The IP address bar on the top disappears, and you have an Android, mobile application of the Terminal solution.

© 2026 Boyum IT Solutions A/S

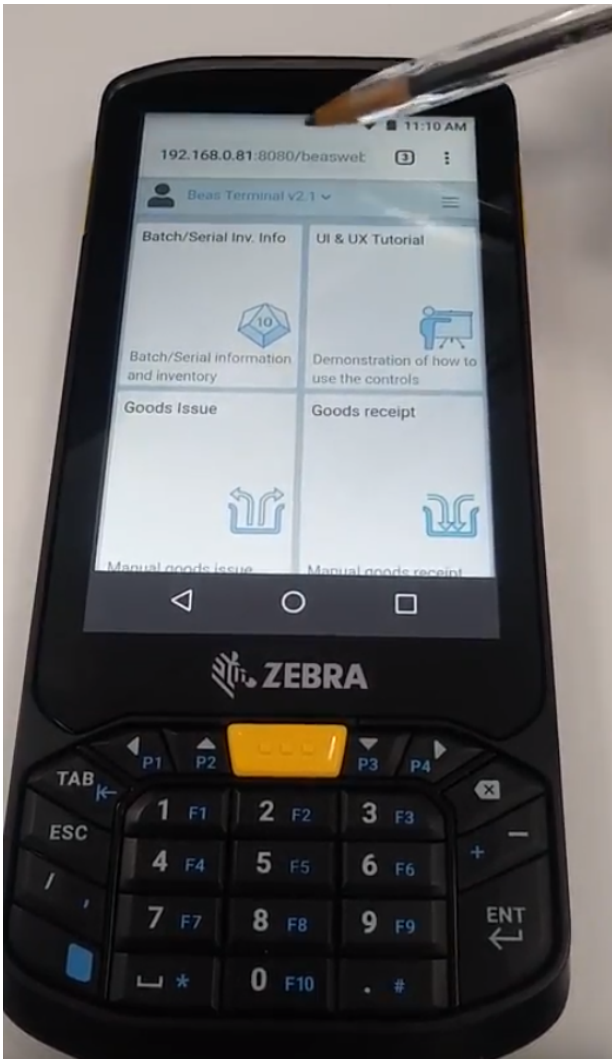


Image 1.

© 2026 Boyum IT Solutions A/S

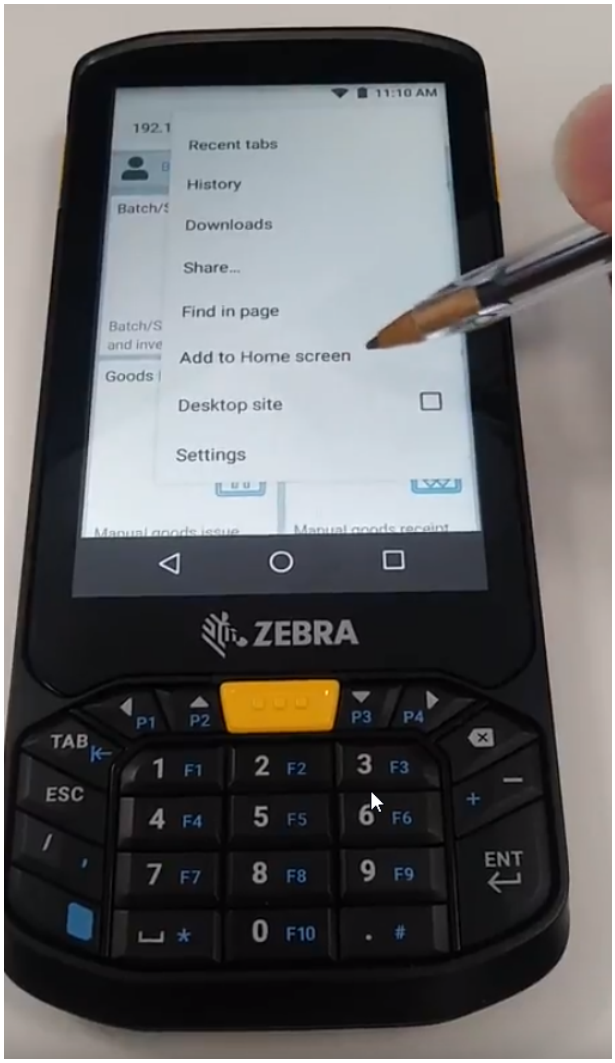


Image 2.

© 2026 Boyum IT Solutions A/S

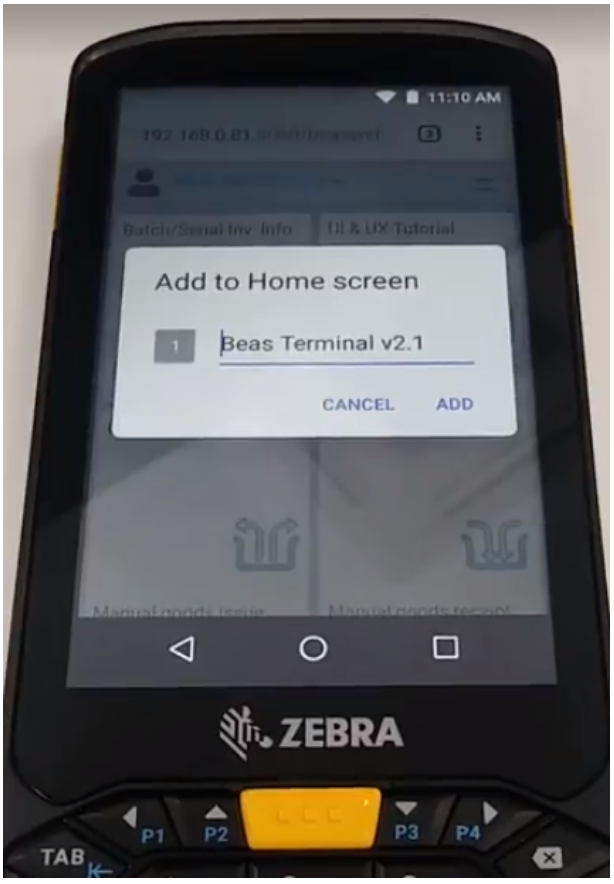


Image 3.

For further information on how to setup the device to read a pre-defined number of bar codes, ***see*** Multi-line bar code scanning.

17.4.1.5.1 Multi-Line Barcode with Zebra TC20

Zebra TC20 is able to scan Multi-line bar codes. To do so, the function has to be activated in the device. Once activated, the device is ready to read the pre-defined number of bar codes to complete a sequence.

> Note: the scanner can only be used to scan multi-line bar codes or single bar codes at a time.

Device configuration to scan a number of bar codes:

1. Open Apps search on Zebra TC20
2. Tap the App "DataWedge" ***See*** image 1. below.
3. Tap the default Profile.
4. Select the "Reader params" menu item.

© 2026 Boyum IT Solutions A/S

5. Scroll down to select "Scanning Modes". It is possible to define a "Single" or "MultiBarcode" function. ***See*** image 2. below.

6. Go back to the main menu and select "Multibarcode params" option to define the number of bar codes. ***See*** image 3. and 4. below.

Image 2.

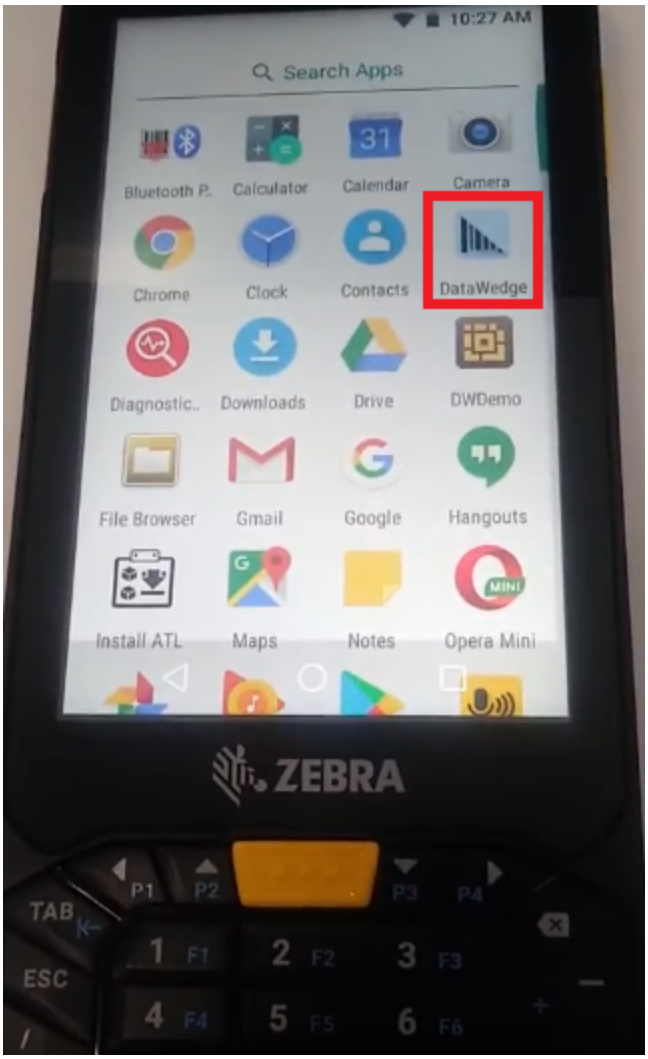


Image 1.

© 2026 Boyum IT Solutions A/S

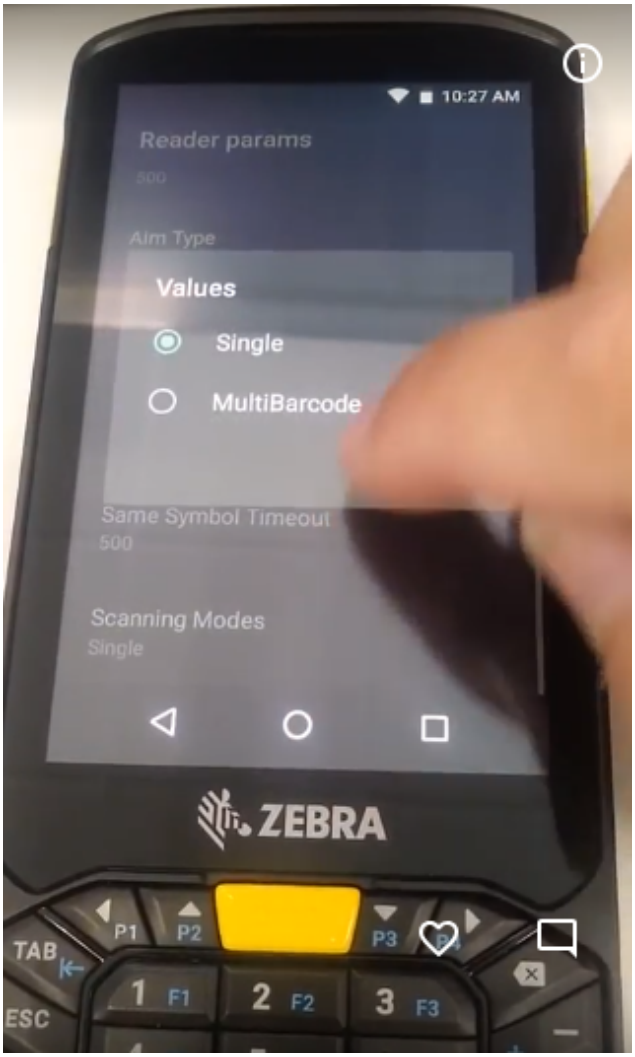


Image 2.

© 2026 Boyum IT Solutions A/S

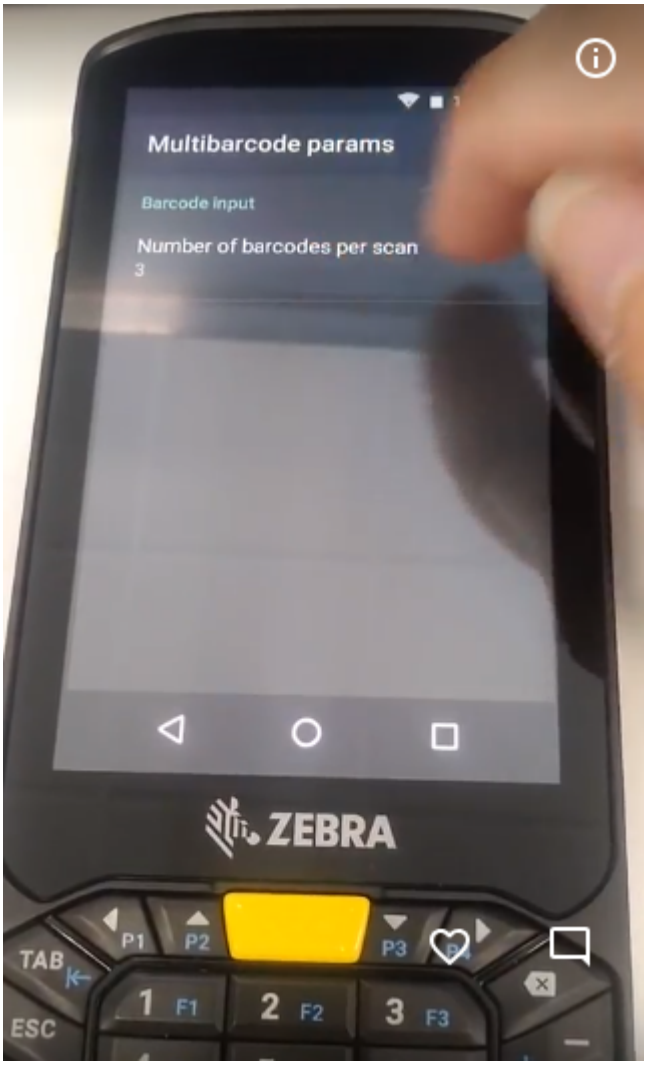


Image 3.

© 2026 Boyum IT Solutions A/S

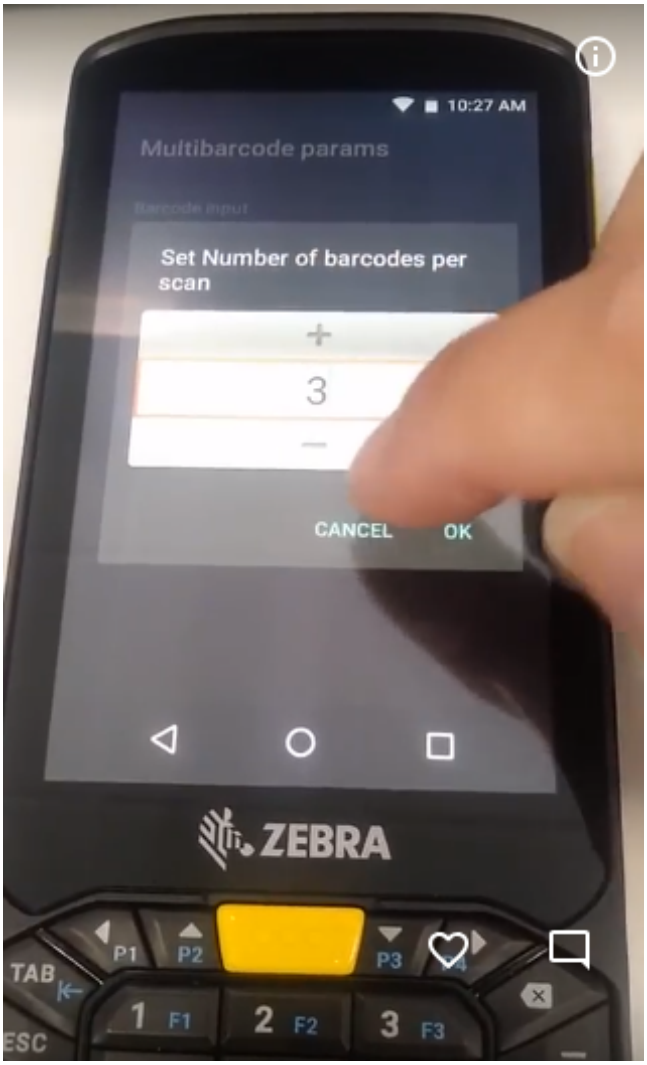


Image 4.

17.4.1.6 Print Solution

General and detailed information about the Print Solution.

- Using the Print Solution

The Print solution is working in asynchronous mode. Therefore, on a mobile device you can continue on working on next documents while the Server is creating the document in the background.

General information about Asynchronous Working

- More about Common Service

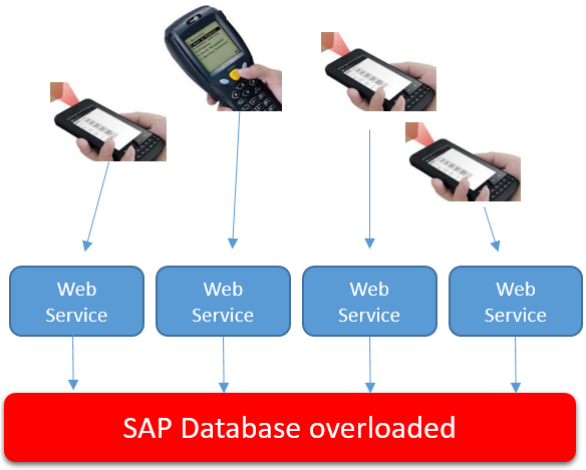
The functionality of Beas Common Service

© 2026 Boyum IT Solutions A/S

- print asynchronously (Example WEB Application)
- create all SAP transactions asynchronously (Example WEB Application)
- simple interface to third applications.

The concept of asynchronous operation

If lots of clients are working in **parallel** with the SAP Transaction on one SAP Table, it does not work because SAP must lock the database for every transaction.
This working tends to get unstable causing long waiting time for clients.

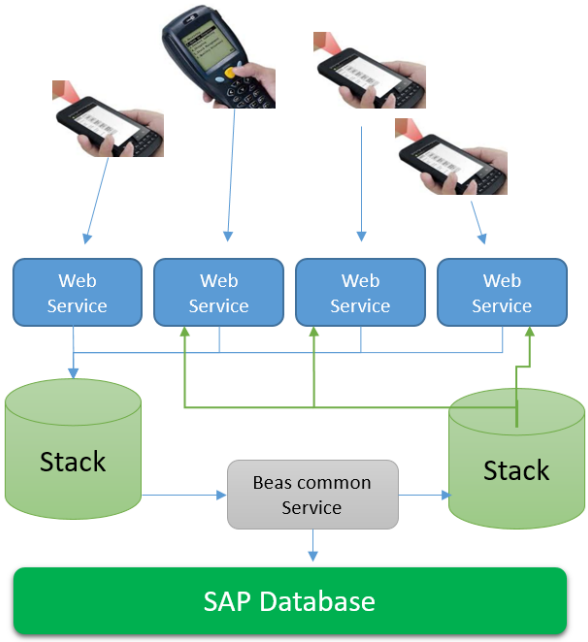


In the Beas common service work is carried out with a stack. Every service sends the transaction command in this stack.
The Beas common service executes this in SERIAL and not PARALLEL.

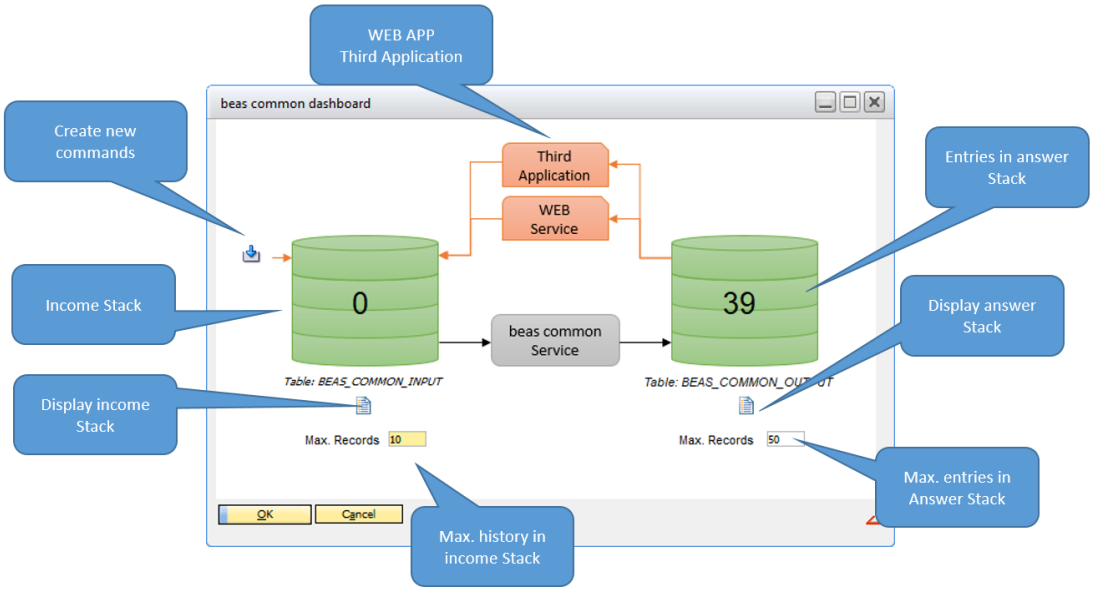
This does not create deadlocks or an overload of the database and results in stable execution.
The worker does not need to wait for a response and can continue since the web service does not execute the transaction itself.

The Beas common service sends the answer (good, docentry number, error message etc.) in an answer stack.
The client can check if an answer is available at any moment, and can display it in the window (= synchronous working).

© 2026 Boyum IT Solutions A/S

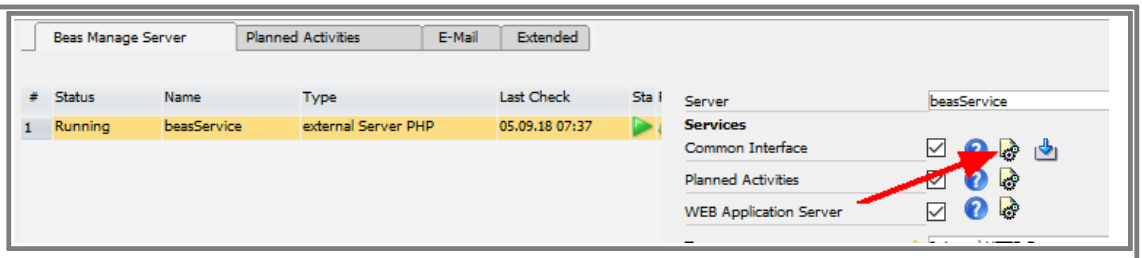


In Beas you can see the current stack in the Beas common dashboard.



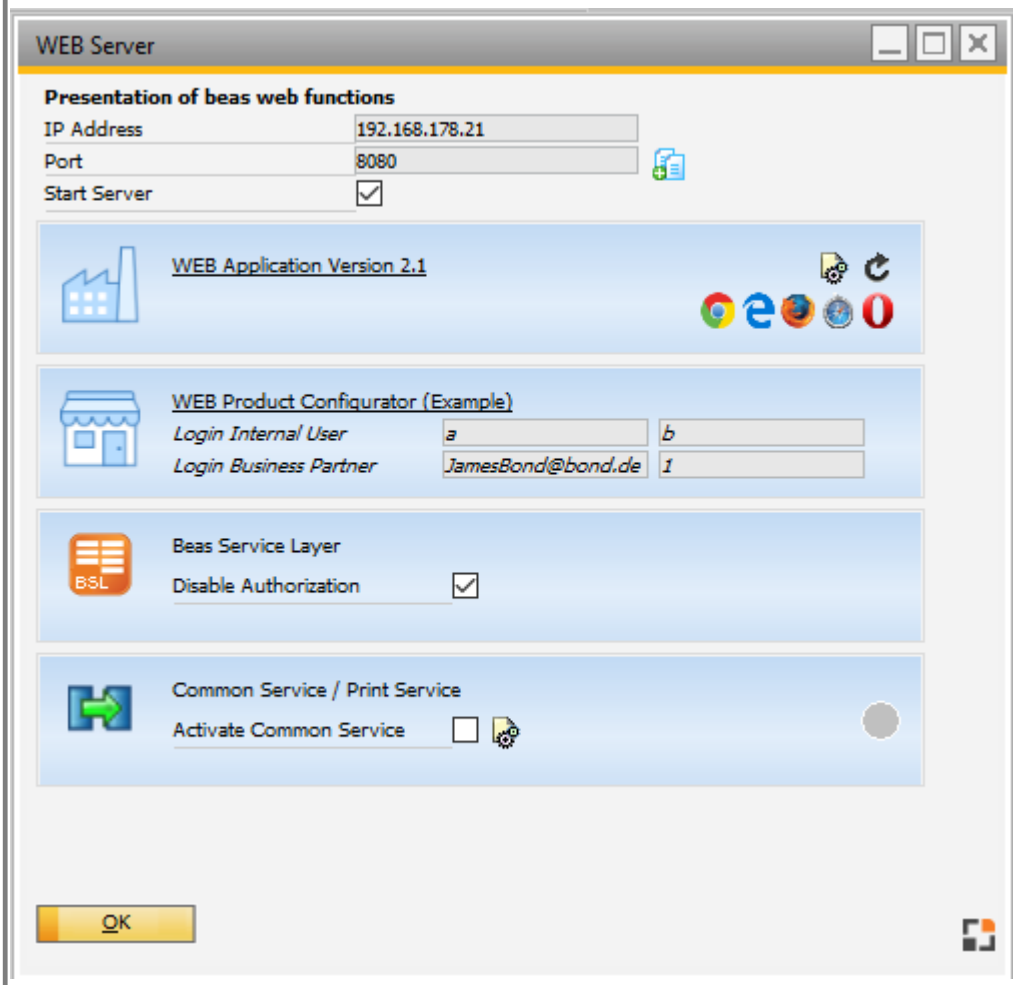
To open the Beas common dashboard from Beas manage server, click on the configuration Icon ***see*** image below.

© 2026 Boyum IT Solutions A/S



Use Print solution in Beas Demo WEB Server

Activate "Common Service":



Use Print solution in standard installation

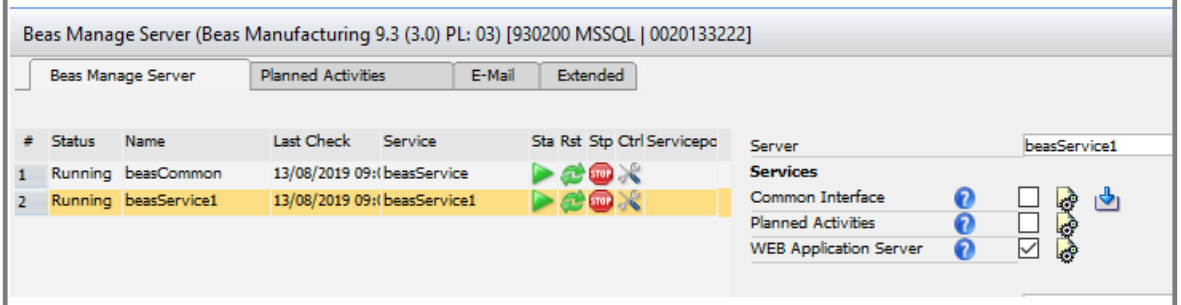
The services are defined in Tools > Beas Server management

You always need 2 services

a) The Beas Common Service (Common Interface)

© 2026 Boyum IT Solutions A/S

b) The WEB Application server



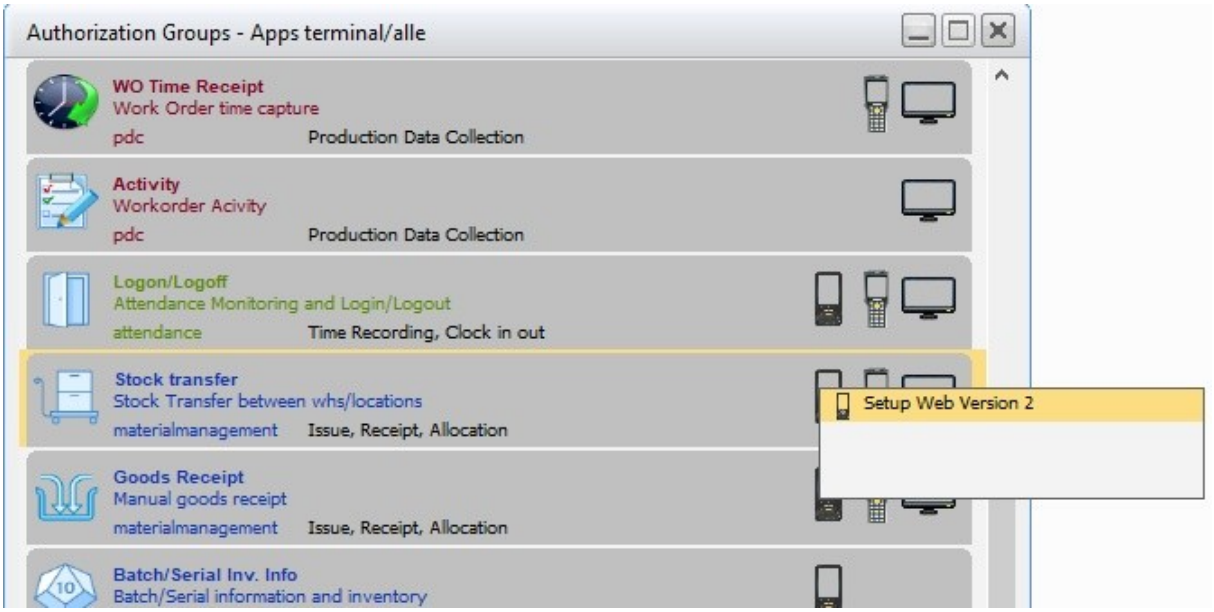
IMPORTANT: Do not activate common Interface and WEB Application for one Service.

Setup Print solution per APP

Human Resources > Master data > Terminal Functions > Edit Authorization

In this window click on the Mobile Device icon > "Setup Web Version 2".

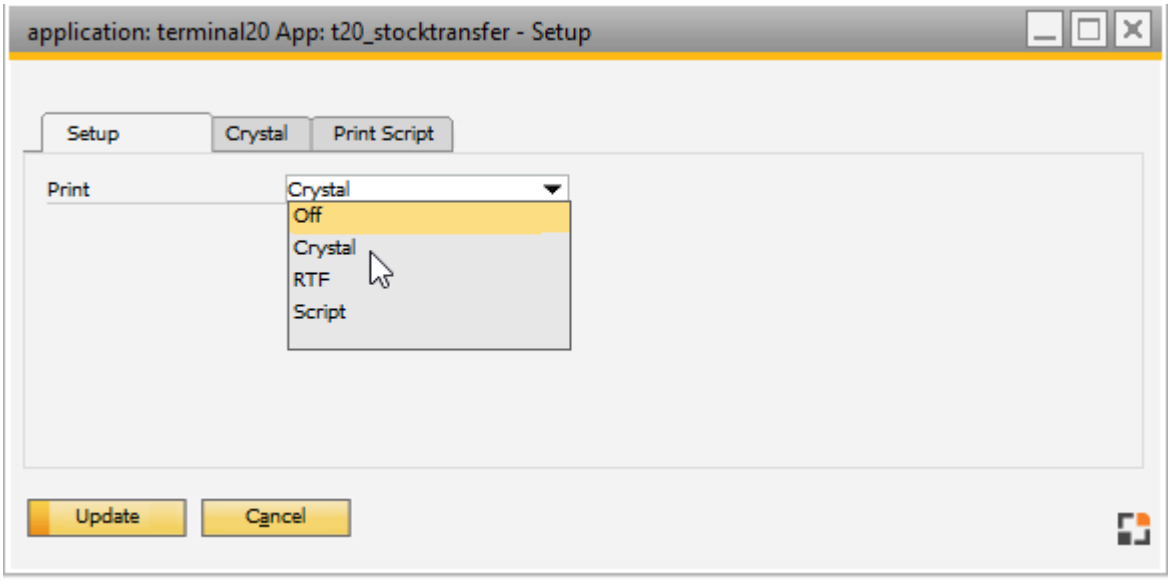
This setting is for all users, not only for the current Authorization Group.



Window menu_ entry_ to.psr

In the Setup window select Crystal and in tab "Crystal" select the RPT File name.

© 2026 Boyum IT Solutions A/S



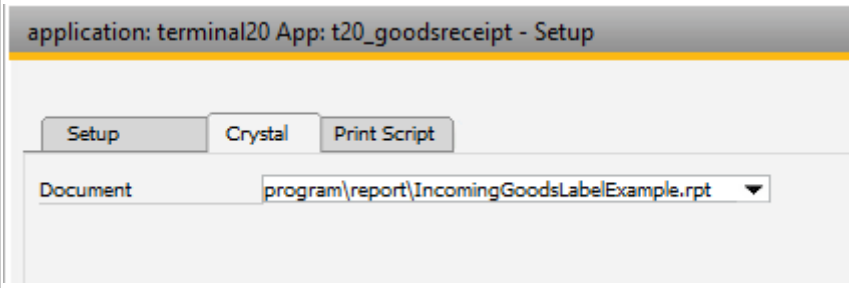
Window webwindow_user_setup.psr

Print type	Description
Crystal	Create a crystal document

Selecting this option makes it possible to print a Crystal document:

PATH: Human Resources > Personnel > Edit an entry > Master Data – Attendance sub-tab > double-click right of "WEB terminal group" field > single-click relevant WebApp 2.1 > "Setup Web Version 2" > select "Crystal" from drop-down > Click "Crystal" tab

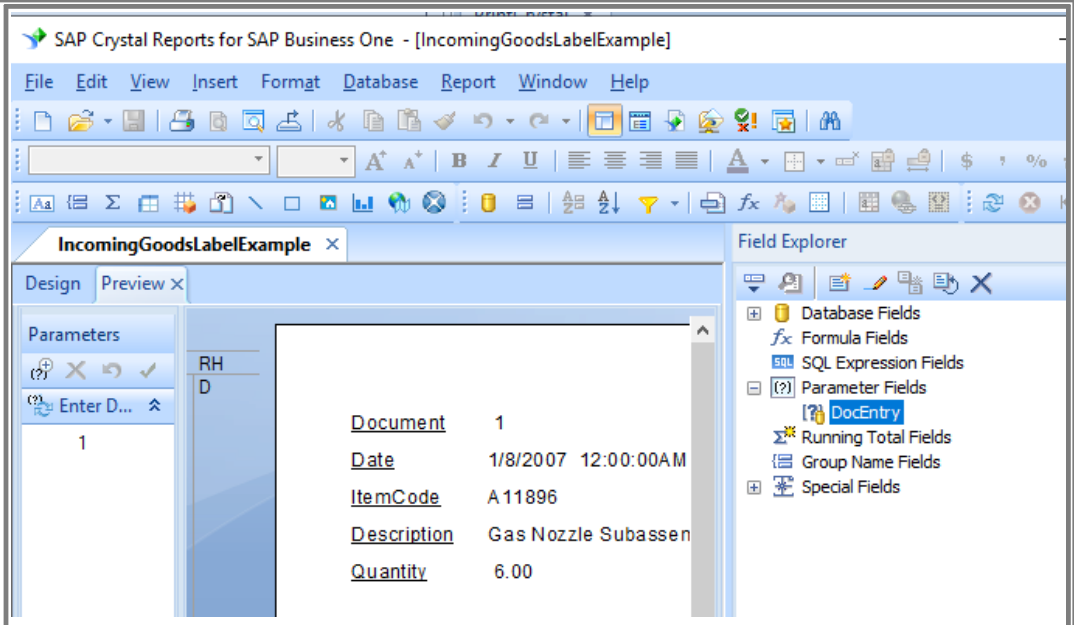
See also extended App Setup.



Window webwindow_user_setup.psr

Example: Report "IncomingGoodsLabelExample" for Goods receipt

© 2026 Boyum IT Solutions A/S



The following variables are available in the Print interface:
(only for apps which create SAP transaction document as receipt, issue, transfer, invoice document)

Variable	Description
DocNumber	Document Number
DocEntry	Document Entry (internal key)
PrimaryObject	SAP Object code for generated document
PrimaryTable	SAP Table for generated document, for example OIGE for Issue document
DocumentName	Document name in system language

This variables are available as PrintObject Variable and instance variable.

Note:

The Report "sale_and_purchase_example.rpt" is not working together with this Print Service.

For Testing you can choose "IncomingGoodsLabelExample.rpt" for Stockmanagement – Receipt App.

© 2026 Boyum IT Solutions A/S

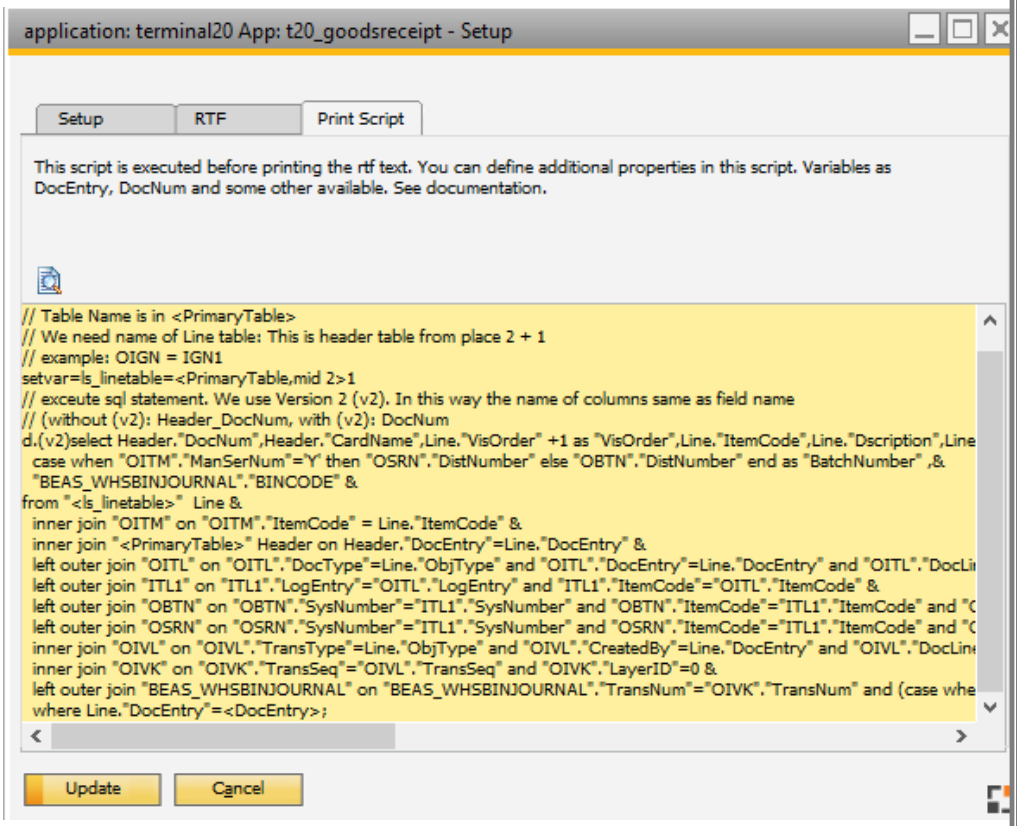
Send additional information to Crystal document as argument

It is possible to read additional information and to send this as arguments to the Crystal document.

You can do this in the tab "Print Script", which is executed before printing

- The following script works for every document type

With the following SQL Statement you can read Serial numbers, Bin locations (only Beas), Item Code, ItemName and other information from the generated document:




```
instance datastore d
// Table Name is in <PrimaryTable>
// We need name of Line table: This is header table from place 2 + 1
// example: OIGN = IGN1
setvar=ls_linetable=<PrimaryTable,mid 2>1
// exceute sql statement. We use Version 2 (v2). In this way the name of columns same as field name
// (without (v2): Header_DocNum, with (v2): DocNum
d.(v2)select Header."DocNum",Header."CardName",Line."VisOrder" +1 as "VisOrder",Line."ItemCode",Line."Dscription",Line."WhsCode",Line."Quantity",&
  case when "OITM"."ManSerNum"='Y' then "OSRN"."DistNumber" else "OBTN"."DistNumber" end as "BatchNumber" ,&
  "BEAS_WHSBINJOURNAL"."BINCODE" &
from "<ls_linetable>"  Line &
  inner join "OITM" on "OITM"."ItemCode" = Line."ItemCode" &
```

© 2026 Boyum IT Solutions A/S

```
  inner join "<PrimaryTable>" Header on
Header."DocEntry"=Line."DocEntry" &
  left outer join "OITL" on "OITL"."DocType"=Line."ObjType" and
"OITL"."DocEntry"=Line."DocEntry" and "OITL"."DocLine"=Line."LineNum"
&
  left outer join "ITL1" on "ITL1"."LogEntry"="OITL"."LogEntry" and
"ITL1"."ItemCode"="OITL"."ItemCode" &
  left outer join "OBTN" on "OBTN"."SysNumber"="ITL1"."SysNumber" and
"OBTN"."ItemCode"="ITL1"."ItemCode" and "OITM"."ManBtchNum"='Y' &
  left outer join "OSRN" on "OSRN"."SysNumber"="ITL1"."SysNumber" and
"OSRN"."ItemCode"="ITL1"."ItemCode" and "OITM"."ManSerNum"='Y'  &
  inner join "OIVL" on "OIVL"."TransType"=Line."ObjType" and
"OIVL"."CreatedBy"=Line."DocEntry" and
"OIVL"."DocLineNum"=Line."LineNum" &
  inner join "OIVK" on "OIVK"."TransSeq"="OIVL"."TransSeq" and
"OIVK"."LayerID"=0 &
  left outer join "BEAS_WHSBINJOURNAL" on
"BEAS_WHSBINJOURNAL"."TransNum"="OIVK"."TransNum" and (case when
"OITM"."ManSerNum"='Y' then CAST("OSRN"."SysNumber" AS varchar(30))
when "OITM"."ManBtchNum"='Y' then "OBTN"."DistNumber" else '' end) =
"BEAS_WHSBINJOURNAL"."BatchNum" &
  where Line."DocEntry"=<DocEntry>;
// send all information to print object
printobject=setvar=ItemCode=<d.itemcode>
printobject=setvar=BatchNumber=<d.batchnumber>
// destroy datastore
destroy=d
```

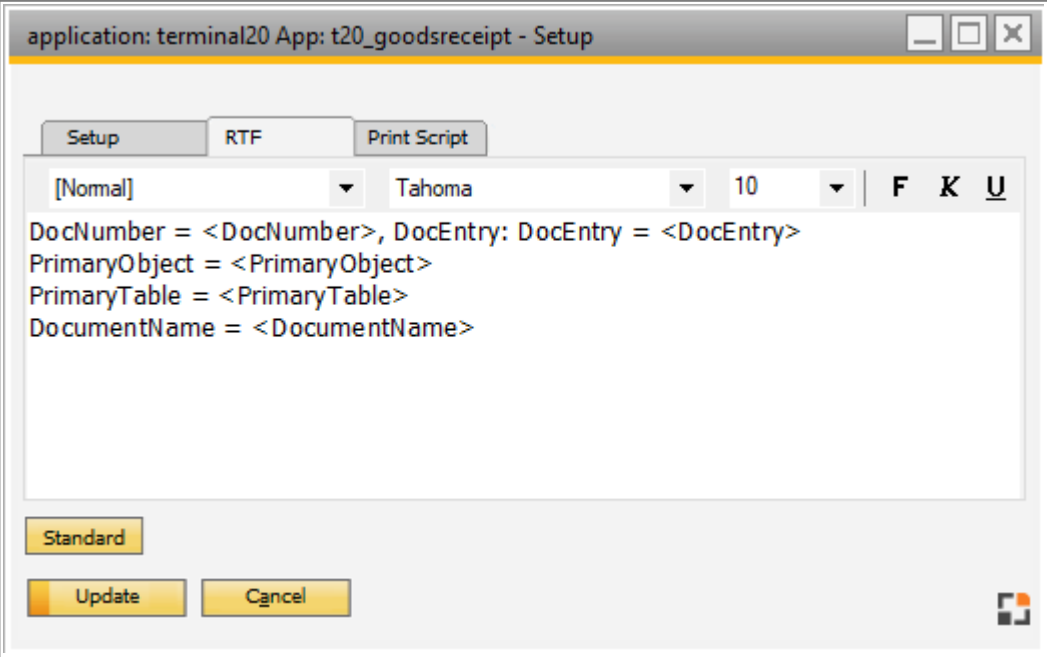
RTF

Create RTF document

You can create Labels / Documents with RTF text.

It is possible to work with placeholders.

© 2026 Boyum IT Solutions A/S



Window webwindow_user_setup.psr

See also extended App Setup.

The following variables are available in the Print interface:
(only for apps which create SAP transaction document as receipt, issue, transfer, invoice document)

Variable	Description
`DocNumber`	Document Number
`DocEntry`	Document Entry (internal key)
`PrimaryObject`	SAP Object code for generated document
`PrimaryTable`	SAP Table for generated document, for example OIGE for Issue document
`DocumentName`	Document name in system language

This variables are available as PrintObject Variable and instance variable.

Button "Standard"

If you click on the **Standard** button, Beas inserts an example.

Additional Variables

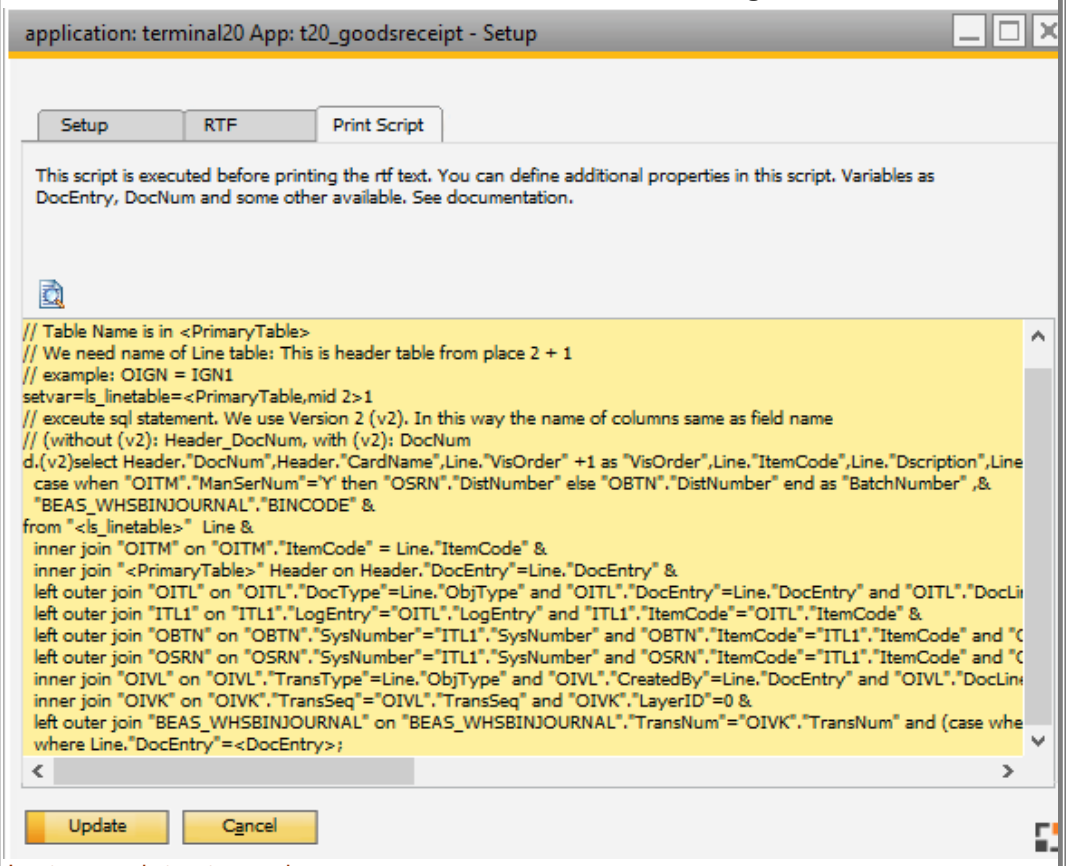
© 2026 Boyum IT Solutions A/S

If you need additional variables, you can define them in tab "Print Script". Beas executes the script before printing the RTF text.

(beas 9.3 PL 3 HF 1)

Example: You want to send ItemCode, ItemName, DistNumber, Quantity and another information

With the following SQL Statement you can read Serial numbers, Bin locations (only Beas), Item Code, ItemName and other information from the generated document:

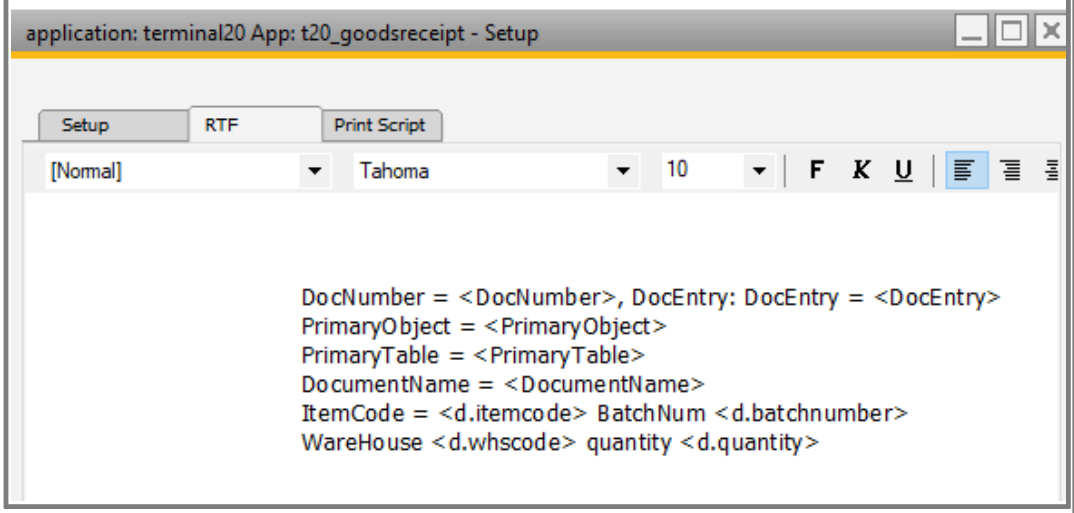



```
instance datastore d
// Table Name is in <PrimaryTable>
// We need name of Line table: This is header table from place 2 + 1
// example: OIGN = IGN1
setvar=ls_linetable=<PrimaryTable,mid 2>1
// exceute sql statement. We use Version 2 (v2). In this way the name of
columns same as field name
// (without (v2): Header_DocNum, with (v2): DocNum
d.(v2)select Header."DocNum",Header."CardName",Line."VisOrder" +1 as
"VisOrder",Line."ItemCode",Line."Dscription",Line."WhsCode",Line."Quantit
y",&
  case when "OITM"."ManSerNum"='Y' then "OSRN"."DistNumber" else
"OBTN"."DistNumber" end as "BatchNumber" ,&
  "BEAS_WHSBINJOURNAL"."BINCODE" &
from "<ls_linetable>"  Line &
  inner join "OITM" on "OITM"."ItemCode" = Line."ItemCode" &
  inner join "<PrimaryTable>" Header on Header."DocEntry"=Line."DocEntry"
```

© 2026 Boyum IT Solutions A/S

```
&
  left outer join "OITL" on "OITL"."DocType"=Line."ObjType" and
"OITL"."DocEntry"=Line."DocEntry" and "OITL"."DocLine"=Line."LineNum" &
  left outer join "ITL1" on "ITL1"."LogEntry"="OITL"."LogEntry" and
"ITL1"."ItemCode"="OITL"."ItemCode" &
  left outer join "OBTN" on "OBTN"."SysNumber"="ITL1"."SysNumber" and
"OBTN"."ItemCode"="ITL1"."ItemCode" and "OITM"."ManBtchNum"='Y' &
  left outer join "OSRN" on "OSRN"."SysNumber"="ITL1"."SysNumber" and
"OSRN"."ItemCode"="ITL1"."ItemCode" and "OITM"."ManSerNum"='Y'  &
  inner join "OIVL" on "OIVL"."TransType"=Line."ObjType" and
"OIVL"."CreatedBy"=Line."DocEntry" and "OIVL"."DocLineNum"=Line."LineNum"
&
  inner join "OIVK" on "OIVK"."TransSeq"="OIVL"."TransSeq" and
"OIVK"."LayerID"=0 &
  left outer join "BEAS_WHSBINJOURNAL" on
"BEAS_WHSBINJOURNAL"."TransNum"="OIVK"."TransNum" and (case when
"OITM"."ManSerNum"='Y' then CAST("OSRN"."SysNumber" AS varchar(30)) when
"OITM"."ManBtchNum"='Y' then "OBTN"."DistNumber" else '' end) =
"BEAS_WHSBINJOURNAL"."BatchNum" &
  where Line."DocEntry"=<DocEntry>;
```

in RTF you can insert all additional placeholders:



Script

Execute only script

Execute the script.

If the print type is Crystal or RTF, Beas executes the script BEFORE printing.

In this way you can define additional variables or arguments.

The following variables are available in the Print interface:

(only for apps which create SAP transaction document as receipt, issue, transfer, invoice document)

Variable	Description
DocNumber	Document Number

© 2026 Boyum IT Solutions A/S

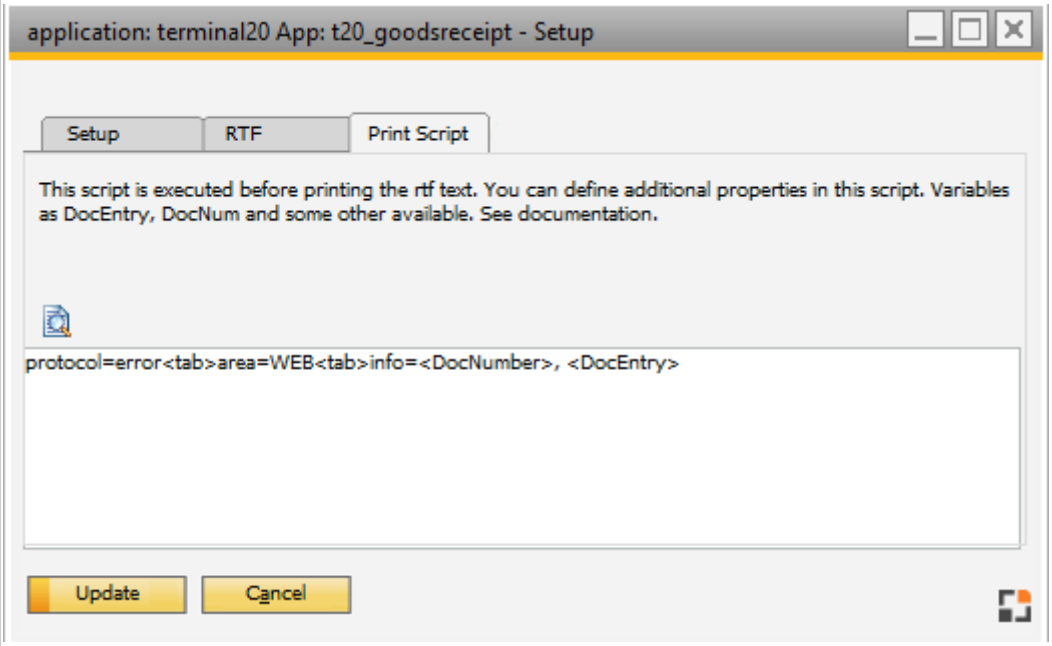
Variable	Description
DocEntry	Document Entry (internal key)
PrimaryObject	SAP Object code for generated document
PrimaryTable	SAP Table for generated document, for example OIGE for Issue document
DocumentName	Document name in system language

This variables are available as PrintObject Variable and instance variable.

Example:

Write Information in the Beas protocol:

```
protocol=error<tab>area=WEB<tab>info=<DocNumber>, <DocEntry>
```



Window webwindow_user_setup.psr

See also extended App Setup.

Attention:

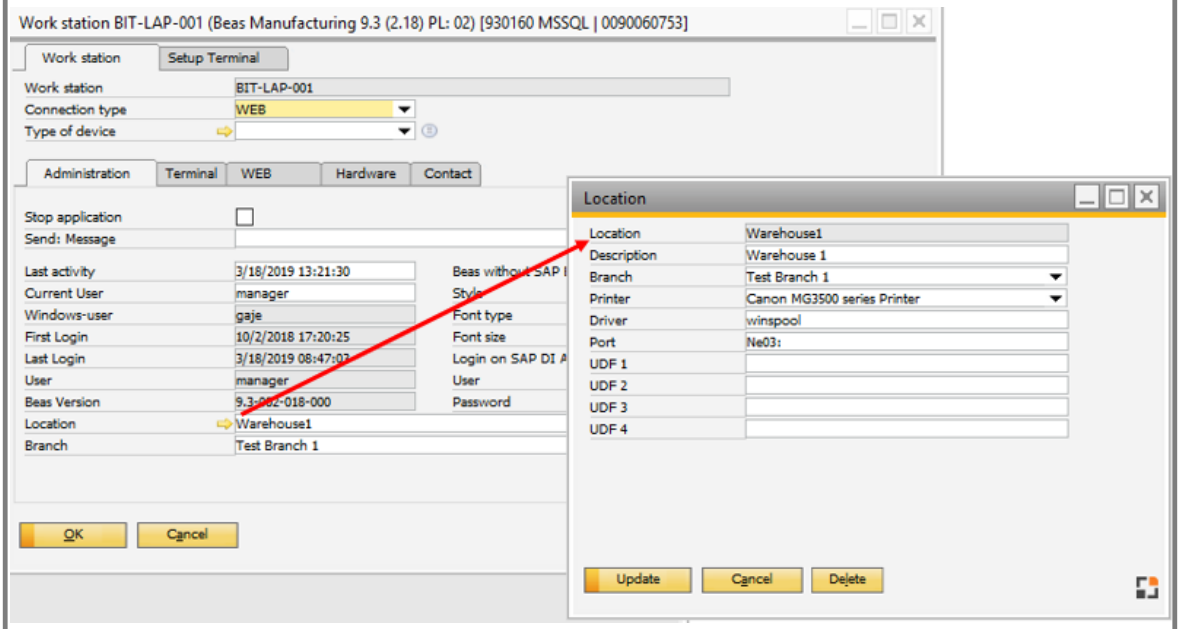
How to use the Print Solution

The WEB Client cannot print the document itself. The document is created by the Beas service which is running on the Server.

© 2026 Boyum IT Solutions A/S

The Server and the windows user of the running Service need connection and access to the Printer (for example network printer)
Location settings are best configured directly on the Server.
Check if the user has access to this printer (with the Service is started).

The WEB Client must be defined as the known Station
Administration > System Initializations > Work station setting wizard
- insert new station
- Tab WEB: Define a password for this station configuration
- define location and a printer for this location
- insert the location in the Work station settings



Window system_location_edit.psr

Now the printer is linked to a location and the station to a location.

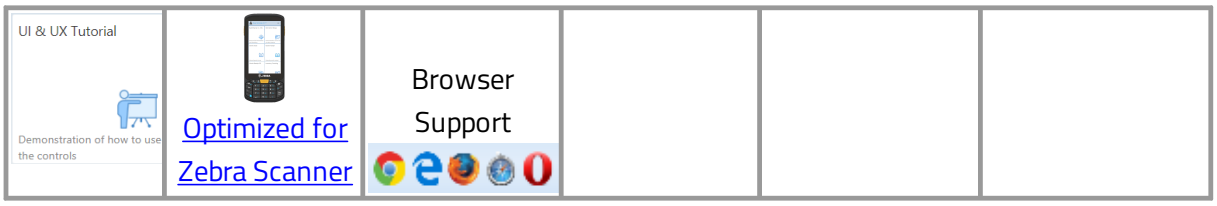
The WEB Client must register the Location.
Human Resources > Master data > Terminal Functions > Edit Authorization > "Basic Settings" button

© 2026 Boyum IT Solutions A/S

Define "Selection" in Work station Name"

Now you can define the Station and Station Password on a mobile device in the login mask.

17.4.2 UI & UX Tutorial



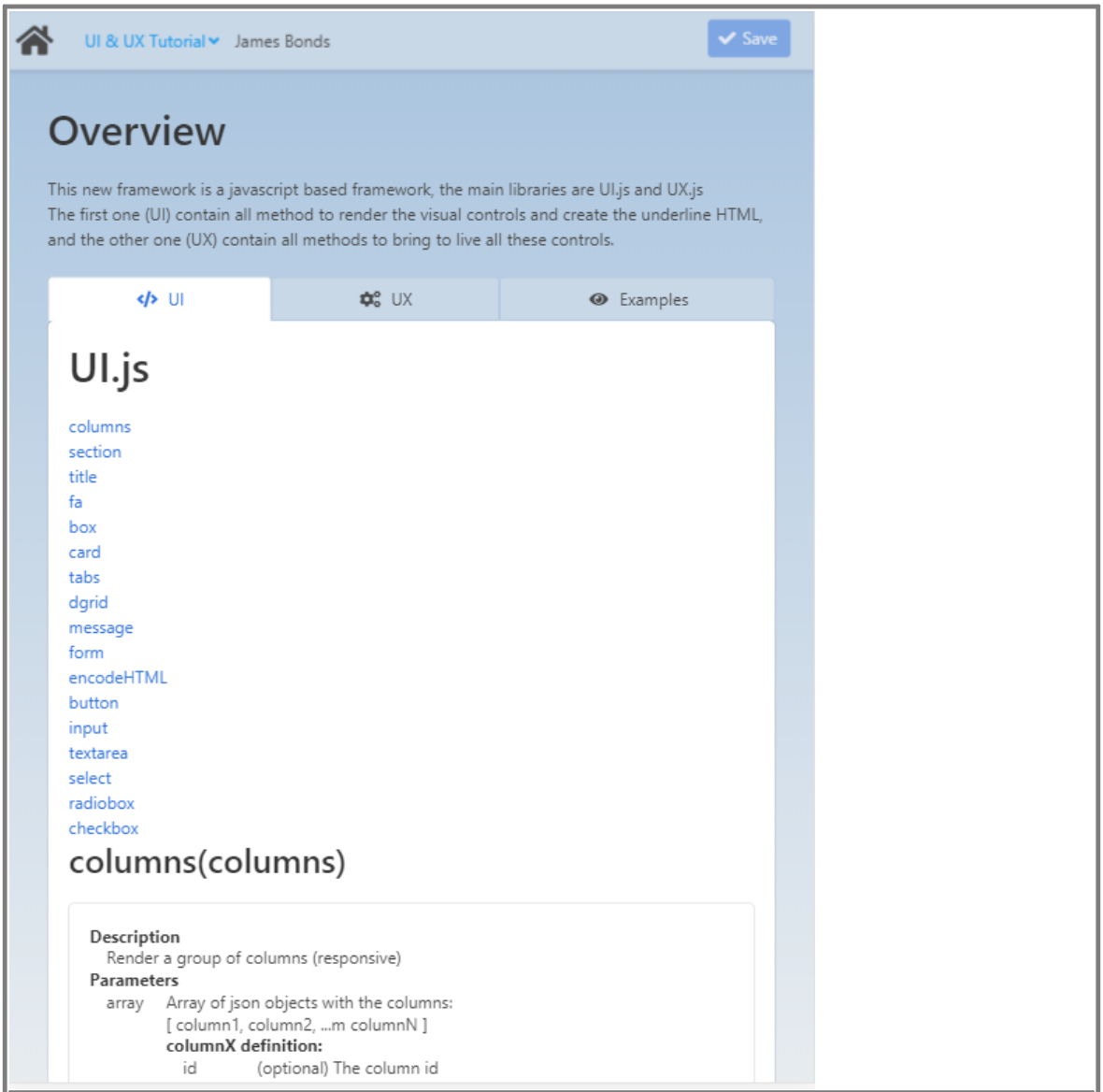
With this app you can gain information on how to use the controls of Terminal 2.1 and create your own Beas WebApps.

Although the app is optimized for the Zebra scanner, it is recommended to use it on larger (tablet size) displays for better readability and perception of topics and examples.

The app consists of three tabs:

- **UI**

© 2026 Boyum IT Solutions A/S



Topic	Method
columns	**columns(columns)**

Description
Render a group of columns (responsive).
Parameters

array	Array of json objects with the columns:

© 2026 Boyum IT Solutions A/S

	[column1, column2, ...m columnN] **columnX definition:** ID: (optional) The column ID size: Size for this column. Available sizes are: 3/4, 2/3, 1/2, 1/3, 1/4, 4/5, 3/5, 2/5, 1/5 content: The column content
Return	
string	The HTML to create the columns
Example	
	`> ui.columns( [{size:"1/5",content:"This columns should be 1/5 of the size. (Or all width in a mobile)"}, {size:"3/5",content:"This columns should be 3/5 of the size. (Or all`

© 2026 Boyum IT Solutions A/S

	width in a mobile)"}, {size:"1/5", content:"This columns should be 1/5 of the size. (Or all width in a mobile)"}]);
	Preview: In the preview of the example you can see how the above string can modify the size of the columns.
section	**section(content, options)**
	Description
	A simple container to divide your page into sections.
	Parameters
	string: The HTML content
	object: json object with the options: ID: (optional) The control ID; hero: The section is a hero. (true|false)
	Return
	string: The HTML to create the section
	Example
	`> ui.section( "Put here the content" );`

© 2026 Boyum IT Solutions A/S

		Preview: In the preview of the example you can see the result of the string: "Insert content here."
title	**title(content, options)**	

Description

Create a title/subtitle (title/subtitle).

Parameters

string	The HTML content
object	json object with the options: type: Type of title: (title|subtitle) size: The size: (1,2,3,4,5,6,7,8)

Return

string	The HTML to render the title

Example

```
>
ui.title( "This is a title" );
```

Preview:
In the preview of the example you

© 2026 Boyum IT Solutions A/S

		can see the result of the string: **"This is a title."**
fa	**fa(iconName, size)**	
	Description	
	Render the HTML to represent a font-aweson icon.	
	Parameters	
	string	The icon name (check names here: https://fontawesome.com/icons?d=gallery)
	string	(optional, default:"small") The icon size: small, medium, large, 2x, 3x
	Return	
	string	The HTML to create the icon
	Example	

		`> ui.fa( "smile-wink" );`
		`< <span class="icon"><i class="fas fa-smile-wink"><></span>`
		
		Preview:
		In the preview of the example you can see the result of the string, a wink icon:

© 2026 Boyum IT Solutions A/S

box	**box(content, options)** **Description** A simple box. **Parameters** string: The HTML content object: JSON object with the options ID: (optional) The ID for this tab **Return** string: The HTML to render the control ***Example*** `> ui.box( "This is the box's content" );` **Preview**: In the preview of the example you can see the result of the string: This is the content of the box.
card	**card(content, options)** **Description** The card component comprises several elements: • header title, subtitle, icon, image

© 2026 Boyum IT Solutions A/S

- content (at this moment all your output after command header until a footer command is executed)
- footer

Parameters

object	JSON object with the options	
	title	The tab title
	subtitle	The tab subtitle
	img1	The image next to the title
	img2	The image next to the content
	content	The tab content
	buttons	Array ob json objects with the buttons definitio n: title The butt on title link A link

© 2026 Boyum IT Solutions A/S

	onclick	for the button JS to execute onclick

Return

string	The HTML to render the control

Example

```
>
ui.card( { title
:"MyCard",subtit
le:"underline
title",img1:"ass
ets21/img/app_t2
0_demo.png",
content:"
This is the
content.
You can put
anything here.
Button 3 will
call a JS
function.
", buttons:
[ {title:"Button
1",link:"#"},
{title:"Button
2",link:"#"},
{title:"Button
3",link:"",
onclick:"alert('
JDG::JS-
test')"}]  });
```

Preview:

In the preview of the example you

© 2026 Boyum IT Solutions A/S

		can see the result of the string:
tabs	**tabs(id, tabs)**	**Description** Create a tab control. **Parameters** string: The tab ID array: An array of json objects with all options to render each tab: [tab1, tab2, ..., tabN] tabX structure: ID: (optional) The ID for this tab title: The tab title icon: The tab icon (You can use ui.fa() to render the icon) content: The tab content **Return** string: The HTML to create the tab

© 2026 Boyum IT Solutions A/S

	Example
	`> ui.tabs( "tabExample01", [ {title:"Tab1", icon:ui.fa("fire"), content:"Content for tab 1"}, {title:"Tab2", icon:ui.fa("water")}, {title:"Tab3", icon:ui.fa("wind")}] );` **Preview**: In the preview of the example you can see the result of the string:
dgrid	**dgrid(id)**
	Description
	Create the container to hold a DataGrid.
	Parameters
	string — The control id
	Return
	string — The html to contain the control created by the UX library
	Example
	`> ui.dgrid( "gridExample01" );` **Preview**: In the preview of the example you

© 2026 Boyum IT Solutions A/S

		can see the result of the string.
message	**message(errorCode, errorText)**	
	Description	
	Create a message box.	
	Parameters	
	number	The error code. If it is lower than 0 is considered an error
	string	The HTML with the message
	Return	
	string	The HTML to create the control
	Example	
		`> ui.message( -1, "Ups. This is an error box!" );` **Preview**:
form	**form(id, action, content)**	
	Description	
	Render the html to represent a form.	
	Parameters	
	string	The form ID
	string	The action to perform when you submit the form
	string	The content
	Return	

© 2026 Boyum IT Solutions A/S

		string: The HTML to create the form ***Example*** `> ui.form( "formExample", "?page=myApp", html_with_the_content ); < html_with_the_content`

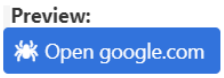
encodeHTML	−	**encodeHTML(s)**
		Description
		Encode a string to be used as value in a HTML tag.
		Parameters
		string The string to be encoded.
		Return
		void
		Example
		`> ui.encodeHTML( "This & this " );`
		`< This & this <is a test>`

button	−	**button(id, label, options)** **Description** Render the HTML to represent a button. **Parameters** string: The control ID string: The title of the control options: json object with all options to render the control: link: Define the

© 2026 Boyum IT Solutions A/S

			target URL for this button
		type	Define the type applied to the button
		licon	Define the left icon displayed into the button (You can use a fontawesome name)
		readonly	Define the control as read-only
		disabled	Define the control as disabled
	Return		
	string	The HTML to create the control	
	Example		

© 2026 Boyum IT Solutions A/S

<table>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td>
<pre>
>
ui.button("butt
onExample01",
"Open
google.com",
{type:"is-link",
link:"https://ww
w.google.com",
licon:"spider"}
);
</pre>
Preview:
In the preview of the example you can see the result of the string:


</td></tr>
</table>
</td></tr>
<tr><td>input</td><td>input(label, name, value, options)
<table>
<tr><td colspan="2">Description</td></tr>
<tr><td colspan="2">Render the HTML to represent an input box.</td></tr>
<tr><td colspan="2">Parameters</td></tr>
<tr><td>string</td><td>The control's label</td></tr>
<tr><td>string</td><td>The control's name</td></tr>
<tr><td>string</td><td>The control's default value</td></tr>
<tr><td>options</td><td>json object with all options to render the control:
<table>
<tr><td>type</td><td>Define the type of the input box, default is text.</td></tr>
</table>
</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

				(hidden|text|number|date)
			placeholder	Define the placeholder for the input, by default the control's tittle is used to.
			licon	Define the left icon displayed into the button (You can use a fontawesome name)
			ricon	Define the right icon displayed into the button (You can use a fontawe

© 2026 Boyum IT Solutions A/S

			some name)
		lbutton	The field has an action button at the left side like an option icon
		rbutton	The field has an action button at the right side like a search icon
		readonly	Define the control as read-only
		disabled	Define the control as disabled
		error	Error if the user has selected nothing
	Return		

© 2026 Boyum IT Solutions A/S

	string	The HTML to create the control
	Example	
		`> ui.input( "User Name", "name", "", {placeholder:"Type your name", licon:"fa-user", rbutton:"fa-search" } );` **Preview**: In the preview of the example you can see the result of the string:
textarea	**textarea(label, name, value, options)**	
	Description	
	Render the HTML to represent an text area box.	
	Parameters	
	string	The control's label
	string	The control's name
	string	The control's default value
	options	json object with all options to render the control: placeholder: Define the placeholder for the input, by

© 2026 Boyum IT Solutions A/S

		default the control's tittle is used to.
	readonly	Define the control as read-only
	disabled	Define the control as disabled
	error	Error if the user has selected nothing

Return

string	The HTML to create the control

Example

```
>
ui.textarea( "Remarks", "notes", "",
{placeholder:"Type your notes"} );
```

Preview:
In the preview of the example you can see the result of the string:

© 2026 Boyum IT Solutions A/S

select	**select(label, name, value, kv, options)** **Description** Render the HTML to represent an select box (dropdown). **Parameters** string — The control's label string — The control's name string — The control's default value array — [[key1,value1], ..., [keyN,valueN]] options — json object with all options to render the control: licon — Define the left icon displayed into the button (You can use a fontawesome name with the prefix "fa-") readonly — Define the control as read-only

© 2026 Boyum IT Solutions A/S

			disabled: Define the control as disabled
			error: Error if the user has selected nothing
		Return	
		string	The HTML to create the control
		Example	
			`> ui.select( "Choose an option", "select-example", "", [[1,"Option 1"],[2,"Option 2"],[3,"Option 3"]], {licon:"fa-bolt"} );` **Preview**: In the preview of the example you can see the result of the string:
radiobox		**radiobox(name, value, kv, options)**	
		Description	
		Render the HTML to represent a group of excluding options (radio-box).	
		Parameters	
		string	The control's name

© 2026 Boyum IT Solutions A/S

		string: The control's default value
		array: [[key1,value1], ..., [keyN,valueN]]
		options: json object with all options to render the control: readonly: Define the control as read-only disabled: Define the control as disabled
		Return
		string: The HTML to create the control
		Example
		`> ui.radiobox( "radiobox-example", "", [[1,"Option 1"],[2,"Option 2"],[3,"Option 3"]], {licon:"fa-bolt"} );` **Preview**: Option 1 Option 2 Option 3
checkbox		**checkbox(label, name, checked, options)**
		Description
		Render the HTML to represent a group of options (check box).

© 2026 Boyum IT Solutions A/S

Parameters	
string	The control's name
string	The control's default value
array	[[key1,value1], ..., [keyN,valueN]]
options	json object with all options to render the control:
readonly	Define the control as read-only
disabled	Define the control as disabled
Return	
string	The html to create the control
Example	
	`> ui.checkbox( "Do you like our new framework?", "checkbox-example", true );` **Preview**: In the preview of the example you

© 2026 Boyum IT Solutions A/S

		can see the result of the string: Do you like our new framework?
more	**more(title, content)**	

Description

Render a line with more information collapsed.

Parameters

string	The title of the control
string	The content of the control

Return

string	The html to create the control

Example

```
>
ui.more( "Click here to expand the information", "This is the information inside of this control Hello!!" );
```

Preview:

In the preview of the example you can see the result of the string - a link appears:

Click here to expand the information

- By clicking the link in the app, you can test how the

© 2026 Boyum IT Solutions A/S

			information is expanded. You can close the displayed message box by tapping the "Close" button in the right top corner of the box.

UX

Topic	Method
click	**click(ID, func)**
	Description

© 2026 Boyum IT Solutions A/S

		A wrapper for the listen function.
		Parameters
		string — The element ID to add the onclick event
		function — The function to trigger on the event
		Return
		No return value
		Example

		`<span id="click-example">Try to click me</span>`
		`<script>ux.click("click-example",function(){alert("Not so strong! XD");});</script>`
		
		Preview:
		In the preview of the example you can see the result of the string:
		A click function is displayed: "Try to click me". When clicking the function, a message appears in a separate box which you can close with "OK".

listen	⊟	**listen(eventName, ID, func)**
		Description
		Listen on the element ID for the event name and then trigger the function given
		Parameters
		string — The event to listen
		string — The element ID to watch
		function — The function to trigger on the event
		Return
		No return value
		Example
		`<span id="listen-example">Try to pass over me</span>` `<script>`

© 2026 Boyum IT Solutions A/S

```
 ux.listen("mouseover","listen-example",function()
{this.className='has-background-danger';});
 ux.listen("mouseout","listen-example",function()
{this.className='';});
</script>
```

Preview:

In the preview of the example you can see the result of the string:

A function to trigger an event appears: "Try to pass over me". When you hover over the line, it is highlighted wit red until you keep the mouse over it.

getElement

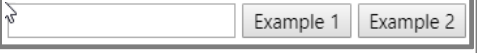
getElement(ID)

Description	
Search an element by ID or Name	
Parameters	
string	The element ID or name
Return	
	The element if it is found or null
Example	

```
<input id="getElement-exampleID" name="getElement-exampleName">
<input type="button" value="Example 1" onclick="ux.getElement('getElement-exampleID').value = 'By ID';">
<input type="button" value="Example 2" onclick="ux.getElement('getElement-exampleName').value = 'By Name';">
```

Preview:

In the preview of the example you can see the result of the string:



© 2026 Boyum IT Solutions A/S

loading	**loading(display)**	
	Description	
	Show a loading mask to avoid the user click on any control	
	Parameters	
	boolean	Activate o DeActivate the loading mask
	Return	
		No return value
	Example	

		`<a href="#" onclick="loading_example()">Click here</a> to display the loading mask for 5 seconds`
		`<script>`
		`function loading_example() {`
		`ux.loading(true);`
		`setTimeout(function()`
		`{ ux.loading(false); }, 5000); }`
		`</script>`
		
		Preview:
		In the preview of the example you can see the result of the string:
		By clicking the link in the "Click here to display the loading mask for 5 seconds" message, the app displays the loading mask for 5 seconds.

dialog	**dialog(title, content, options, onclose)**	
	Description	
	A modal dialog box	
	Parameters	
	string	The title
	string	The HTML content
	object	json object with all options to render the control:

© 2026 Boyum IT Solutions A/S

	icon: An icon to show in the message
	buttons: Array of objects with the definitons of the buttons (id, title, type [is-success/is-info/is-warning/is-danger]])
function	Function to call when the dialog is closed or a button is pressed The pressed button id is sent as parameter (or null if closed without press any button)
Return	
	No return value
Example	

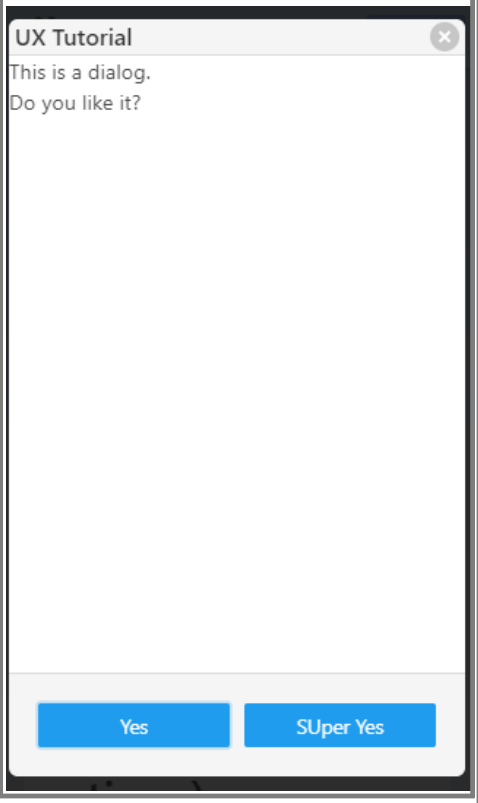
```
<a href="#"
onclick="dialog_example()">Click
here</a> to display a modal
dialog
 <script>
    function dialog_example() {
      ux.dialog("UX
Tutorial","This is a dialog.<br>
Do you like it?", {buttons:
[ {id:'Y', title:'Yes'},
{id:'SY',title:'SUper Yes'}]},
function(b) { alert('You pressed
the button with id: '+b); } );
    }
</script>
```

Preview:

In the preview of the example you can see the result of the string:

"Click here to display a modal dialog box."

© 2026 Boyum IT Solutions A/S

			- by clicking the link in the preview, a dialog box to opens for testing: 
set		**set(idName, status, options)**	

Description	
Provide a visual feedback to the input controls	
Parameters	
string	The control's id or name
string	The new status: show|hide|readonly|disabled|error|title|subtitle|clear
object	json object with all options

buttons	Apply the status to the attached buttons (true|false)
bX	Apply the status to the attached

© 2026 Boyum IT Solutions A/S

		button number X(true|false)
Return		
object	The element	
Example		

```
<div id="set-example"
class="preview"></div>
<script>
document.getElementById("set-
example").innerHTML =
ui.input( "User Name", "name",
"", {placeholder:"Type your
name", licon:"fa-user",
rbutton:"fa-search" } )
 + ui.button( "set01", "set
Error", {type:"is-link",
link:"javascript:set01()",
licon:"error"} )
 + ui.button( "set02", "set
Disabled", {type:"is-link",
link:"javascript:set02()",
licon:"eye"} )
 + ui.button( "set03", "set
Clear", {type:"is-link",
link:"javascript:set03()",
licon:"clean"} ) ;
 function set01() { ux.set("set-
example","error"); }
 function set02() { ux.set("set-
example","disabled"); }
 function set03() { ux.set("set-
example","clear"); }
</script>
```

Preview:

tabs

tabs(id, action, params=null)

Description	
Add functionality toÂ ui.tabs	
Parameters	
string	The control's ID or name
string	The command: init|active
object	The params depend of the command:

© 2026 Boyum IT Solutions A/S

			action=init	set params to null to init all tabs or set an id to init only the specified one
			action=active	set the name of the tab to activate
		Return		
		void		
		Example		
		<pre>document.getElementById("your-container").innerHTML = ui.tabs("tabExample01ux", [{title:"Tab1", icon:ui.fa("fire"), content:"Content for tab 1"}, {title:"Tab2", icon:ui.fa("water")}, {title:"Tab3", icon:ui.fa("wind")}]); ux.tabs("tabExample01ux","init") ;</pre> **Preview**: In the preview of the example you can see the result of the string:		
dgrid	**dgrid(id, params)**			
		Description		
		Create a functional data grid and fill it with data from a valid oData source		
		Parameters		
		string	The control's ID	
		object	JSON object with the options to create the grid:	
			fields	Array of field: [field1, field2, ..., fieldN] Field structure:

© 2026 Boyum IT Solutions A/S

title	The title of the field
sort_key	Name of the field if it's possible to be sorted by this field
align	left| center| right
hidden	true| false
type	text| number| date| time| datetime| boolean
width	Set the width for this field
ondraw	Function with the value of the current field

© 2026 Boyum IT Solutions A/S

	and you must return the html to draw this cell
rows	(It will be fill up using the url). Array of Array with the rows data: [[row1_col1,row1_col2,...,row1_colN], ..., [rowN_col1,...,rowN_colN]]
URL	string with the url to get the data (oData or beas generated dgrid data)
sort_key	string with the name of the field to sort the result
sort_dir	Set order to (asc) ending or (desc) ending. Default: asc
onclick_row	function to be executed when the user select a row, the row's data is passed as argument

© 2026 Boyum IT Solutions A/S

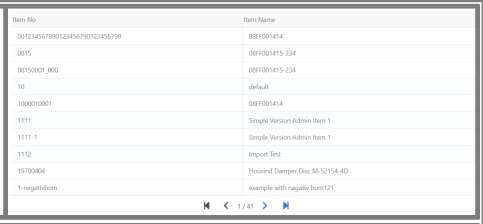
	limit: Set the maximum number of rows to retrieve at time. Default: 25
Return	
void	
Example 01 (using Beas Service Layer)	

```
// Create the container
document.getElementById("ux-
dgrid-example").innerHTML =
ui.dgrid( "ux-dgrid" );
// Initialize the datagrid
ux.dgrid('ux-dgrid',
{   limit:10
                        ,fields:
[ {title:_t("Item No"),
sort_key:'ItemCode'},
{title:_t("Item Name"),
sort_key:'ItemName'} ]
                        ,url:'/o
data4/v1/Item?$ProgramId='+appIn
fo.gid+'&$AppId='+appInfo.appID+
'&$format=jsonarray&$inlinecount
=allpages&$transaction=receipt&$
orderby=ItemCode&$select=ItemCod
e,ItemName'
                        ,onclick
_row:function(d,rid)
{ console.log('Data in Row
selected: ',d); }
                    }
                );
// Later, we can set a new url
with a filter
// ux.dgrid('ux-dgrid').url =
**we can reset the url with a
filter if we want**

// And reload the page(x)
ux.dgrid('ux-dgrid').page(1);
```

Preview:

In the preview of the example you can see the result of the string:

© 2026 Boyum IT Solutions A/S



Item No	Item Name
00123456789012345679012345679O	08FF001414
0815	08FF001415-234
08150001_000	08FF001415-234
10	default
1000010001	08FF001414
1111	Simple Version Admin Item 1
1111-1	Simple Version Admin Item 1
1112	Import Test
19780404	Housind Damper Disc M-52154-4D
1-negativbom	example with nagativ bom121

1 / 41

Example 02 (using your own query)

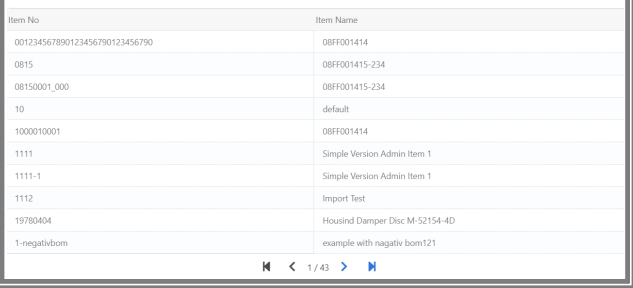
```
// You must include this piece of beas
script code at top of your beas web app:
// begin beas script code
//
-----------------------------------------
-------------
if <get> = 'dgrid02' then
    shtml.web.responseType=json
    get_dgrid02()
    return success
end if
//
-----------------------------------------
-------------
function get_dgrid02
    if <var:sort_by> in
{ItemCode,ItemName} then
        // ... field valid to sort
    else
        setvar=sort_by=ItemCode
        setvar=sort_dir=ASC
    end if
    if <var:sort_dir> in {desc,asc} then
        // ... sort direction is valid
    else
        setvar=sort_dir=ASC
    end if
    setvar=ls_sql= "ItemCode", "ItemName"
from "OITM" ORDER BY <sort_by,dbstring>
<sort_dir>
    shtml.web.dgrid=sql,<dg_page>,<dg_limi
t>,select <ls_sql>
end function
//
-----------------------------------------
-------------
// end beas script code
// Create the container
document.getElementById("ux-dgrid-
example02").innerHTML = ui.dgrid( "ux-
dgrid02" );
// Initialize the datagrid
ux.dgrid('ux-dgrid02', {   limit:10
                          ,fields:
[ {title:_t("Item No"),
sort_key:'ItemCode'},{title:_t("Item
Name"), sort_key:'ItemName'} ]
```

© 2026 Boyum IT Solutions A/S

```
                        ,url:'?program_id='+appInfo.gid+'&page=t20_demo&get=dgrid02'
                        ,onclick_row:function(d,rid) { console.log('Data in Row selected: ',d); }
                    }
                );
ux.dgrid('ux-dgrid02').page(1);
```

Preview:

In the preview of the example you can see the result of the string:



Item No	Item Name
00123456789012345679012345679O	08FF001414
0815	08FF001415-234
08150001_000	08FF001415-234
10	default
1000010001	08FF001414
1111	Simple Version Admin Item 1
1111-1	Simple Version Admin Item 1
1112	Import Test
19780404	Housind Damper Disc M-52154-4D
1-negativbom	example with nagativ bom121

1 / 43

autocomplete

autocomplete(id, url, options)

Description	
Add auto-complete functionality to any input box.	
Parameters	
string	The control's ID
string	The URL to fetch the data (the value of the filter must be *q* this function will replace it later by the current value)
object	JSON object with the options to create the auto-completion component:

ondraw	Function with the value of the current field and you must return the HTML to draw this cell

Return

© 2026 Boyum IT Solutions A/S

		void	
		Example	

			`// Create the container`
			`document.getElementById("ux-autocomplete-example01").innerHTML = ui.input( "ItemCode", "ux-autocomplete-cexample01", "", {placeholder:"Type an ItemCode or Name", licon:"fa-search" } );`
			`ux.autocomplete('ux-autocomplete-cexample01', '?program_id='+appInfo.gid+'&page=t20_demo&get=dgrid02&q=*q*');`
			
			Preview: (Try to type some "ItemCode" or "ItemName" existing in your database)
			In the preview of the example you can see the result of the string:
			Start typing an ItemCode or ItemName from your existing database, and a list containing the data will be prompted as below:
			
			ItemCode
			01
			0**01**23456789012345679012345679 0
			08FF001414
			0815
			08FF0**01**415-234

focus		**focus(fs, f)**	
		Description	
		You can set the focus to a selected field with rules. Giving a list of controls as an array and the name of a target control: If the target control has error, we set the focus to this control, otherwise we should set the focus to the next non-disabled field in the list.	
		Parameters	

© 2026 Boyum IT Solutions A/S

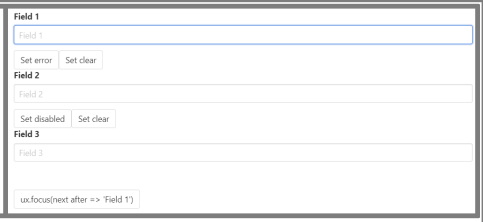
array	array of controls ordered to be focused
string	current focused control
Return	
void	
Example	

```
// Create three fields
document.getElementById("ux-focus-example01").innerHTML =
    ui.input( "Field 1", "ux-focus01", "" )
        +ui.button("ux-focus01b1","Set error",{link:"javascript:ux.set('ux-focus01','error')"})
        +ui.button("ux-focus01b2","Set clear",{link:"javascript:ux.set('ux-focus01','clear')"})
    +'<br>'
    +ui.input( "Field 2", "ux-focus02", "" )
        +ui.button("ux-focus02b1","Set disabled",{link:"javascript:ux.set('ux-focus02','disabled')"})
        +ui.button("ux-focus02b2","Set clear",{link:"javascript:ux.set('ux-focus02','clear')"})
    +'<br>'
    +ui.input( "Field 3", "ux-focus03", "" )
    +'<br>'
    +'<br>'
    +ui.button("ux-focus01b1","ux.focus(next after =<br> 'Field 1')",{link:"javascript:ux.focus(['ux-focus01','ux-focus02','ux-focus03'],'ux-focus01')"});
```

Preview: (Try to set error/disable and then click Set Focus)

In the Preview section of the example you can try using the button controls "Set error" and "Set clear"

© 2026 Boyum IT Solutions A/S



saveAll

saveAll(url, data, callback, options={})

Description	
Send data to the backend and block the app in the meanwhile. It switch the "Save" button to "Saving" also.	
Parameters	
string	URL
object	JSON object with the parameters to send
function	Callback function to execute after the command receives a reply.
object	JSON object with the options: contentType: json|multipart|standard timeout: Max time to wait a reply loading: Block the app while sending/receiving data. Default: true
Return	
void	
Example	

```
ux.saveAll( '/odata4/v1/issue?$P
        , json_with_all_data_to_
        , function(err, result)
            if ( !err /* && resu
                    ux.dialog(_t
                                );
            } else {
                ux.dialog(_t("Er
```

© 2026 Boyum IT Solutions A/S

```
                ux.loading(false
            }
        }.bind(this)
      , {contentType:'json',ti
    );
```

No Preview available

aget

aget(url, callback, options={})

Description	
A wrapper for ux.ajax (GET)	
Parameters	
string	URL to load
function	Callback function to execute after the command receive a reply
object	JSON object with the options: contentType: json|multipart|standard timeout: Max time to wait a reply loading: Block the app while sending/receiving data. Default: true
Return	
void	
Example	

```
       ux.aget( 'http://www.goog
le.es'
               , function(err,
result) {
                   if ( !err /*
&& result hasn't errors */ ) {
                       ux.di
alog(_t("Received!"),result,
{ buttons:[{id:'ok',
title:_t("Ok"),type:"is-
success"}] } );
                   } else {
                       ux.dialog
(_t("Error"),_t("An unknown error
happened. Please wait some
seconds and try again."),
```

© 2026 Boyum IT Solutions A/S

		{ buttons:[{id:'ok', title:_t("Ok"),type:"is-danger"}] });
		ux.loading(false);
		}
		}
		);
		No Preview available
		
		"Push to execute" - a link appears to execute a command.

apost

apost(url, data, callback, options={})

Description	
A wrapper for ux.ajax (POST)	
Parameters	
string	URL to load
object	JSON object with the parameters to send
function	Callback function to execute after the command receive a reply
object	JSON object with the options: contentType: json|multipart|standard timeout: Max time to wait a reply loading: Block the app while sending/receiving data. Default: true
Return	
void	
Example	
	`ux.apost( 'http://www.url-to-send-post.com/path'`

© 2026 Boyum IT Solutions A/S

```
                    ,
{data1:'hello',moreData:'World!'
}
                , function(err,
result) {
                    if ( !err /*
&& result hasn't errors */ ) {
                        ux.d
ialog(_t("Sent and
Received!"),result, { buttons:
[{id:'ok',
title:_t("Ok"),type:"is-
success"}] } );
                    } else {
                        ux.dialo
g(_t("Error"),_t("An unknown
error happened. Please wait some
seconds and try again."),
{ buttons:[{id:'ok',
title:_t("Ok"),type:"is-
danger"}] } );
                        ux.loadi
ng(false);
                    }
                }
            );
```

No Preview available

ajax

ajax(url, callback, options={})

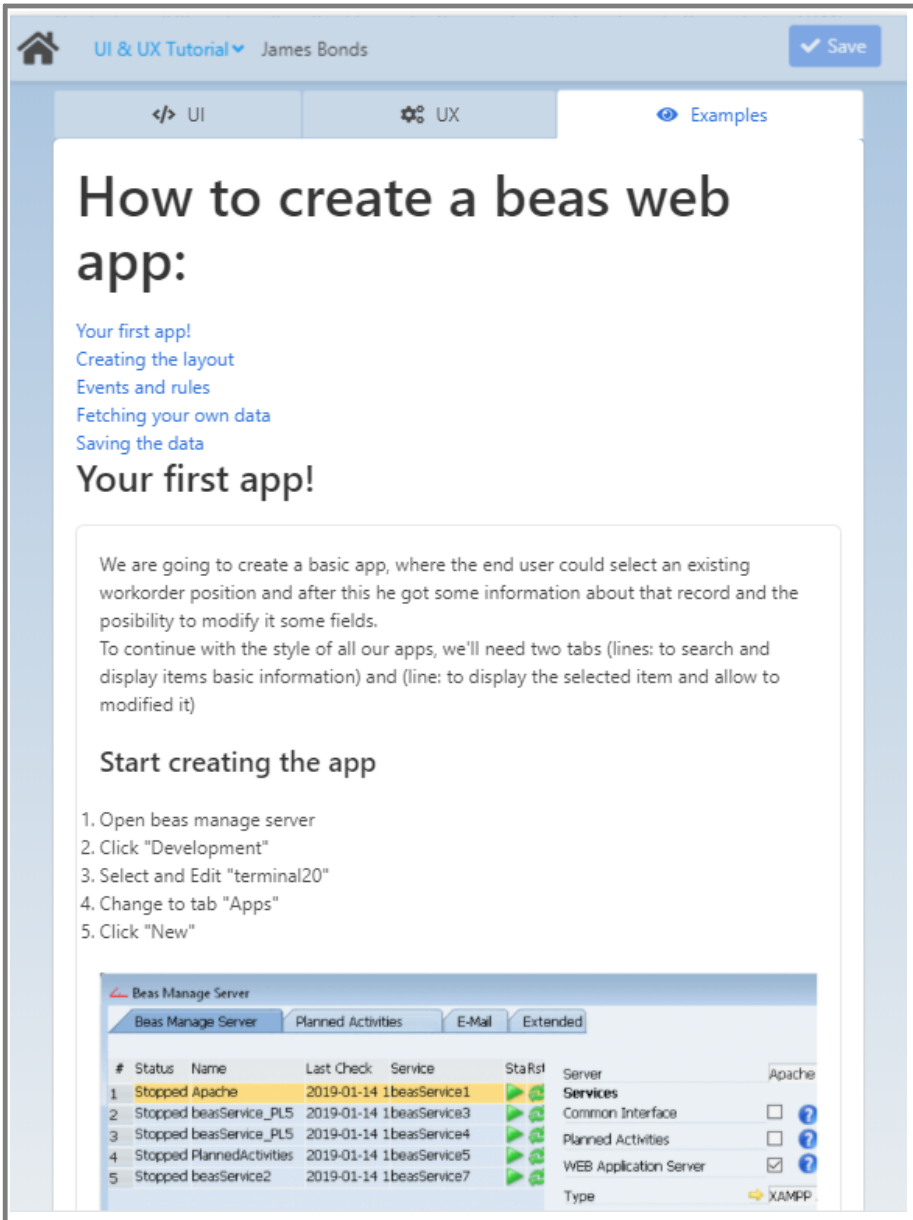
Description	
A wrapper for ux.ajax (POST)	
Parameters	
string	URL to load
function	Callback function to execute after the command receive a reply
object	JSON object with the options: data — JSON object with the parameters to send contentType — json|multipart|standard timeout — Max time to wait a reply loading — Block the app while sending/receiving

© 2026 Boyum IT Solutions A/S

	data. Default: true
Return	
void	
Example	
	`ux.ajax('http://www.url-to-send-get.com/path' , function(err, result) { if (!err /* && result hasn't errors */) { ux.dialog(_t("Sent and Received!"),result, { buttons: [{id:'ok', title:_t("Ok"),type:"is-success"}] }); } else { ux.dialog(_t("Error"),_t("An unknown error happened. Please wait some seconds and try again."), { buttons: [{id:'ok', title:_t("Ok"),type:"is-danger"}] }); ux.loading(false); } });` **No Preview available**

Examples

© 2026 Boyum IT Solutions A/S

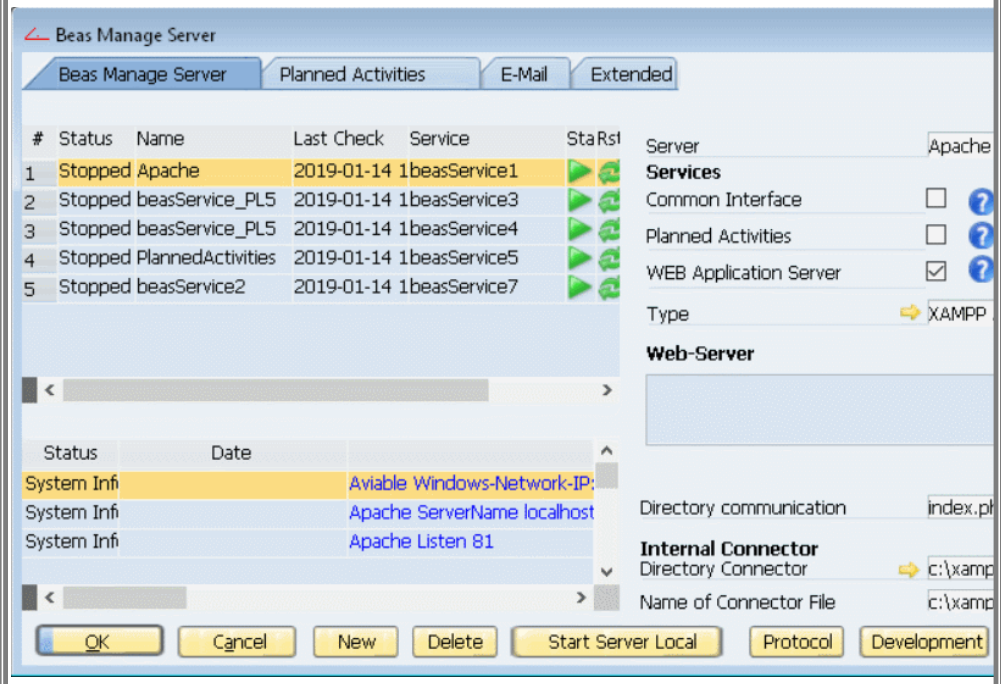


In this tab you can learn how to create a basic app with step-by-step instructions.

Step of creating an app	Description/Code
Your first app!	Start creating the app 1. Open Beas manage server 2. Click "Development" 3. Select and Edit "terminal20"

© 2026 Boyum IT Solutions A/S

4. Change to tab "Apps"
5. Click "New"



Defining the basic settings:

1. All not standard apps should start with the prefix "mod_"

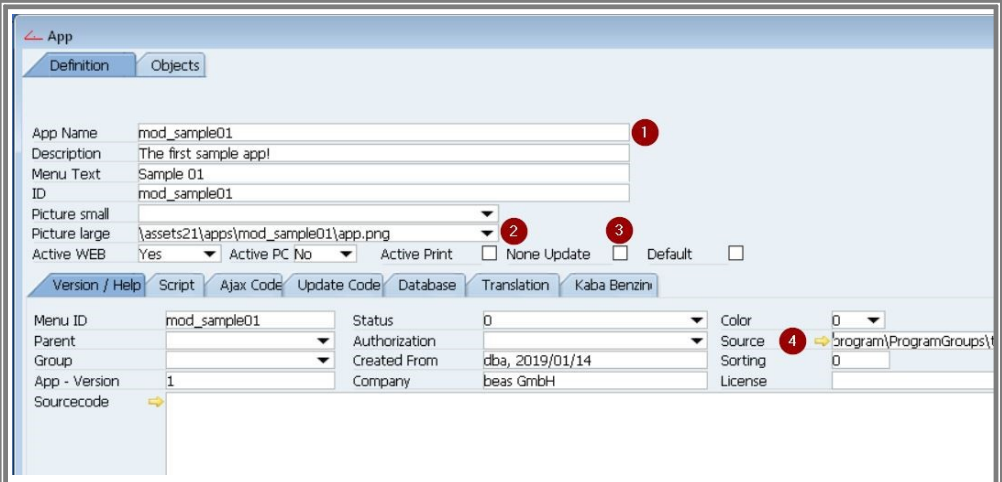
Set the long "Description" and the title "Menu Text" for this app

Set the "ID" as (1) the "App Name"

2. Set the icon for this app (we should create the folder and put the icon there)
3. Uncheck the "None Update" option to save this app to file
4. Check that the folder is writable

Finally add this code, and save it.

© 2026 Boyum IT Solutions A/S




```
_header()
gui()
_footer()
return success

//
-----------------------------------------------------------------------
---------------------
function gui
    [html]
        <script
src="assets21/apps/mod_sample01/i18n/@currentlanguage@.js"></script>
        <script src="assets21/apps/mod_sample01/app.js"></script>
    [/html]
end function
//
-----------------------------------------------------------------------
---------------------
```

The `_header()` and `_footer()` will load the standard header and footer for our application.

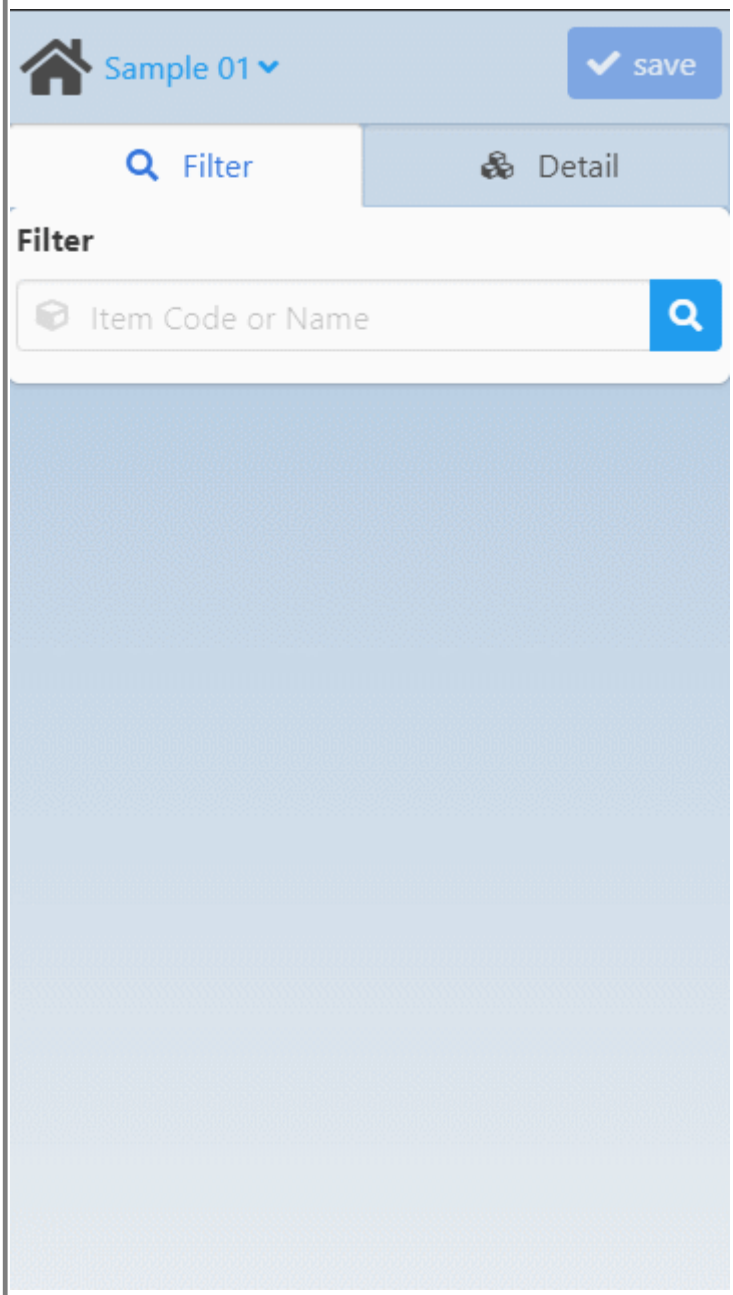
The first script, should contain the translations for the `@currentlanguage@`. And the second script is the apps itself.

The next step should be create the folder `assets21/apps/mod_sample01` and inside of this folder the files `"app.png"` (the app icon) and `"app.js"`, and optionally "i18n/XX.js" where XX is the language to translate the app to (EX. ES=Spanish, FR=French, E=English).

Creating the layout	We want to create two tabs (Filter/Detail). The tab filter contains a field to search/filter by (WorkOrderID/Positon) or (Produced ItemCode/ItemName) + a button to execute the action. Also the result for such filter will be displayed below this field.

© 2026 Boyum IT Solutions A/S

If the user clicks on any result, we want to jump to the second tab (Detail), which will display some details about that work order and the possibility to modify the fields "Description" and/or "Info".



Edit the file `app.js` and add the basic code:

```
class customAPP {
            constructor() {
            this.gui();
        }
```

	gui() {
	// Create the APP UI Template_____
	var ui = new UI;
	
	// Using the UI.js library we create an input field and the container for a data grid
	var tabFilter = ui.input(_t("Filter"), "filter", "", {licon:"fa-cube",rbutton:"fa-search", autofocus:true, placeholder:_t("Item Code or Name"), error:_t("Please select an item")}) +
	ui.dgrid("dgFilterResult");
	
	// We define later the content for the second tab
	var tabDetail = ui.box('later we will put details about the selected item here',{id:"itemDetail"}) +
	ui.input(_t("Description"), "description", "", {licon:"fa-asterisk"}) +
	ui.textarea(_t("info"), "info", "", {licon:"fa-info"})
	;
	
	// Now we create the "Tab" container and set for each tab the layout defined in the previous lines
	var html = ui.tabs("MApp",
	[
	{icon:ui.fa("search"), title:_t("Filter"), active:true, content:tabFilter, id:"tabFilter"},
	{icon:ui.fa("cubes"), title:_t("Detail"), content:tabDetail, id:"tabDetail"}
	]
	);
	
	// Finally we render the app into the app container
	document.getElementById("app-container").innerHTML = html;
	
	// Start by initializing all tabs controls
	ux.tabs('MApp', 'init');
	
	}
	}
	var app = new customAPP;

Events and rules	constructor() {
	this.appData_clear();
	this.gui();
	}
	appData_clear() {
	// We clear all appData we stored previously
	this.appData = { woID:0, woPosition:0, itemCode:'', itemName:'', quantity:0, description:'', info:'' };
	}
	gui() {
	// ... at the bottom

© 2026 Boyum IT Solutions A/S

```
  // Apply the UX
_____________________________________________________________________
________
        // All previous steps define only static content, now we are
use the UX.js to bring to live these controls
        // Listen for a changing event in the control MApp, we want
to prevent that user change to the second tab if nothing has been
selected
        ux.listen(  'changing',
                    'MApp',
                    function (e) {
                                    switch(e.detail.targetTab) {
                                        case "tabFilter":
                                                                break;
                                        case "tabDetail":
                                                                if
( this.appData.woID>0 )   this.displayDetail();
                                                                else
 e.preventDefault();
                                                                break;
                                    }
                                }.bind(this)
                );
        // TAB
FILTER_____________________________________________________________
___________
        // Listen for a click event in the button on the right side
of the control filter (magnify icon) to trigger the filter function
        ux.listen(  'click',
                    'filter-rbutton',
                    function(e) {
                        this.filter(document.getElementsByName("filte
r")[0].value);
                    }.bind(this)
                );
        // Listen for a change event in the field "filter", and
trigger the filter function
        ux.listen(  'change',
                'filter',
                function (e) {
                    this.filter( document.getElementsByName("filter")
[0].value );
                }.bind(this)
            );
        // Prepare the data grid container with a valid and empty
grid (We define fields, default sort, and action after user click on
one line)
        ux.dgrid(   'dgFilterResult',
                    {
                        fields:[{title:_t('WO/Position'),
sort_key:'id'},{title:_t("Item No"), sort_key:'ItemCode'},
{title:_t('Qty')}],
                        url:'',
                        sort_key:'id', sort_dir:'ASC',
```

© 2026 Boyum IT Solutions A/S

```
                        onclick_row:this.filter_onclick_row.bind(this
)
                    }
                );

        // Add autocomplete to some fields...
        ux.autocomplete( 'filter', '?get=wo&q=*q*' ); // Url to
beascript backend to retrieve information

  // TAB
Detail_____________________________________________________________
___________
        // Listen for a change event in the field "info", and save
the data
        ux.listen(  'change',
                'info',
                function (e) {
                    this.appData.info =
document.getElementsByName("info")[0].value;
                    this.checkDetail();
                }.bind(this)
            );
        ux.listen(  'change',
                'description',
                function (e) {
                    this.appData.description =
document.getElementsByName("description")[0].value;
                    this.checkDetail();
                }.bind(this)
            );
    }
// Get all the workorders filtered by the given keyword
filter(keyword) {
        // If the autocomplete is working in this control, then do
nothing to avoid duplicated actions
        if ( document.getElementsByName("filter")
[0].getAttribute("autocomplete-active") == 'true' ) return;

        // Get the grid control handler
        let dg = ux.dgrid('dgFilterResult');
        // Set the new URL (filter by the current control content
"keyword")
        dg.url = "?get=wo&q="+encodeURIComponent(keyword);  // Call
to beascript backend to retrieve information
        // Force to reload the page 1
        dg.page(1);
    }

// User selected a row from the filtered table
filter_onclick_row(d,rid) {
console.log("JDG :: Row clicked > ",d);
        this.getDetails(d[0]);
}

getDetails(woIDPos) {
```

© 2026 Boyum IT Solutions A/S

```
console.log("JDG :: Getting information about WO ("+woIDPos+")");
let url = '?get=detail&woIDPos='+encodeURIComponent(id);
ux.aget( url,
        function(err, result) {
            // These are the defaults value, just in case we don't
retrieve some value
            let d = { woID:0,woPosition:0, itemCode:'', itemName:'',
quantity:0, description:'', info:'' };

            let r = this.currentLine;
            if (!err && result.hasOwnProperty("value")) {
                // Merge the retrieved values with the defaults one
                if (result.value.length>0) {
                    let v = result.value[0];

                    let i  = -1;
                    d.woID   = +v[++i];
                    d.woPosition  = +v[++i];
                    d.itemCode  = v[++i];
                    d.itemName  = v[++i]||'';
                    d.quantity   = +v[++i];
                    d.description  = v[++i];
                    d.info   = v[++i];
                }
            }

            // Store in the "appData" variable, the information
            console.log("JDG :: itemcode("+id+")",d);
            this.appData.woID    = d.woID;
            this.appData.woPosition   = d.woPosition;
            this.appData.itemCode   = d.itemCode;
            this.appData.itemName   = d.itemName;
            this.appData.quantity   = d.quantity;
            this.appData.description  = d.description||'';
            this.appData.info   = d.info||'';

            // Finally, change to tabDetail
            ux.tabs('MApp', 'active', 'tabDetail');
        }.bind(this)
    );
}
displayDetail() {
ux.getElement("woDetail").innerHTML =   _t("Work Order: ")
+this.appData.woID+
                                '
'+ _t("Position: ")+this.appData.woPosition+
                                '
'+ _t("ItemCode: ")+this.appData.itemCode+
                                '
'+ _t("ItemName: ")+this.appData.itemName+
                                '
'+ _t("Quantity: ")+this.appData.quantity;
ux.getElement("description").value = this.appData.description;
ux.getElement("info").value = this.appData.info;
ux.set("info", "subtitle", "(write more than 15chars)");
```

© 2026 Boyum IT Solutions A/S

```
return this.checkDetail();
}
// Validation rules: Description and info cannot be empty and for the
info you need to write more than 15 characters...
checkDetail() {
let has_error = false;
ux.set('description', 'clear');
if ( this.appData.description == '' ) { has_error = true;
ux.set('description', 'error'); }
ux.set('info', 'clear');
if ( this.appData.info.length < 15 ) { has_error = true;
ux.set('info', 'error'); }
// Inform to the framework if the app can save or not the data
if ( has_error ) ux.set("appSave","disabled"); else
ux.set("appSave","enable");
return has_error;
}
```

Fetching your own data

You should use Beas Service Layer (BSL) and oData to request information but if you need request custom data then we can use beasScript to deliver them.

In our example, we need two sort of request: (1) A List of work orders (2) The detail for the selected work order.

Open the app in **Beas manage server > development > terminal20:[apps] > mod_sample01** and add the next piece of code at the beginning:

```
     //
--------------------------------------------------------------------
--------------------
        if  = 'wo' then
            shtml.web.responseType=json
            getWorkOrderList()
            return
        end if
        if  = 'detail' then
            shtml.web.responseType=json
            getWorkOrderDetail()
            return
        end if
        //
--------------------------------------------------------------------
--------------------

        //
--------------------------------------------------------------------
--------------------
        function getWorkOrderList
            setvar=al_limit=
            setvar=page=
            setvar=qLike=%%

            if  in {woIdPos,ItemCode} then
                // ...
            else
```

© 2026 Boyum IT Solutions A/S

	setvar=sort_by=woIdPos
	setvar=sort_dir=ASC
	end if
	
	if in {desc,asc} then
	// ...
	else
	setvar=sort_dir=ASC
	end if
	
	setvar=ls_sql= cast("BELNR_ID" as varchar)||'/'|| cast("BELPOS_ID" as varchar) as "woIdPos", "ItemCode", "MENGE" from "BEAS_FTPOS" &
	where = '' or (cast("BELNR_ID" as varchar)||'/'||cast("BELPOS_ID" as varchar)) like or "ItemCode" like &
	ORDER BY ""
	shtml.web.dgrid=sql,
	,,select
	end function
	//
	---------- 	
	function getWorkOrderDetail
	setvar=ls_sql= p."BELNR_ID", p."BELPOS_ID", p."ItemCode", i."ItemName", p."MENGE", p."ItemName" description, p.zusatztext info from "BEAS_FTPOS" p inner join "OITM" i on (i."ItemCode"=p."ItemCode") &
	where (cast("BELNR_ID" as varchar)||'/'|| cast("BELPOS_ID" as varchar)) =
	shtml.web.dgrid=sql,1,1,select
	end function
	//
	---------- 	

Saving the data	Saving the data has three parts: (1) The part where we prepare the data and send to some backend (beasScript in this example), (2) The backend to process and save those data, (3) and finally check the answer from the backend and display the result to the user or prepare the app for a new transaction.

The "Overview" header is visible on the top for all three tabs. In each tab, you can see the list of contents linked to the given topic on top (***see*** images above).

Therefore, you can have a quick overview of the whole tab content and easily access the chapter of your interest.

At the end of each topic you can jump back to the top using the "TOP" button located bottom right under the frame of the chapter (***see*** image in UX above).

© 2026 Boyum IT Solutions A/S

As the app serves informational purposes, the "Save" button has not function and remains inactive.

17.4.3 Logon / Logoff

Login / Logout Attendance Monitoring and Login/Logout	 Optimized for Zebra Scanner	Browser Support		License Time Recording, Clock In Out	

With this app it is possible to monitor attendance and log on/off the Terminal.

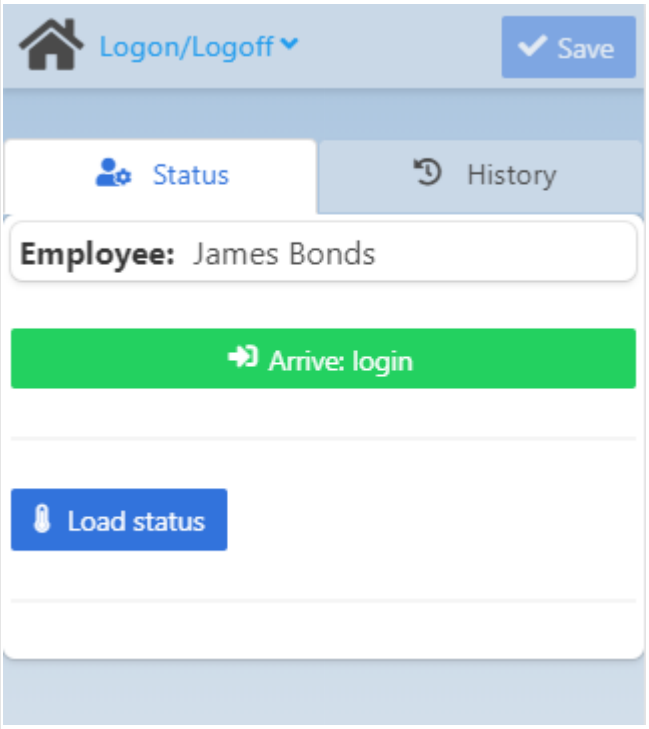
See basic WebApp controls in General Information on WEB APPS Version 2.1.

The app consists of a message field on top and two tabs below it: Status and History.

See Configuration wizard settings of the Web Terminal.

Status tab

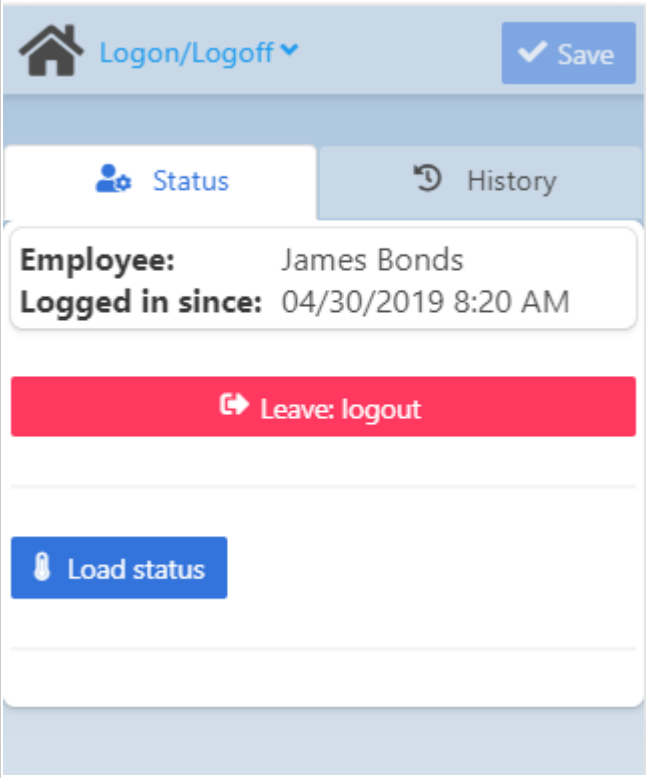
Once you provide the employee card number upon logging into the Terminal 2.1, the Employee information linked to the card number is displayed in this app under the Status tab (***see*** image below).



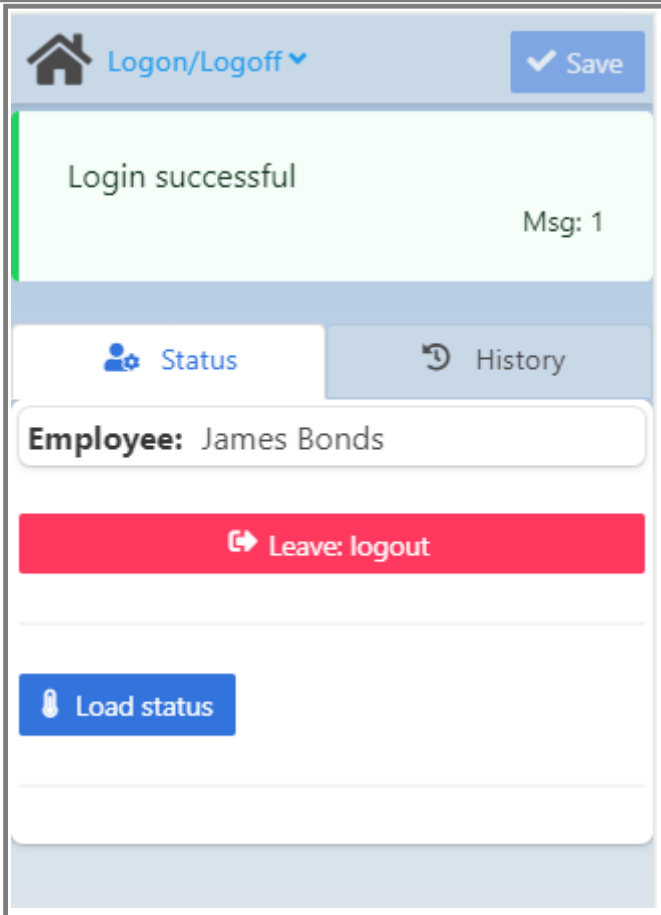
Note: Manual shift definition is not supported in this WebApp.

Field Descriptions

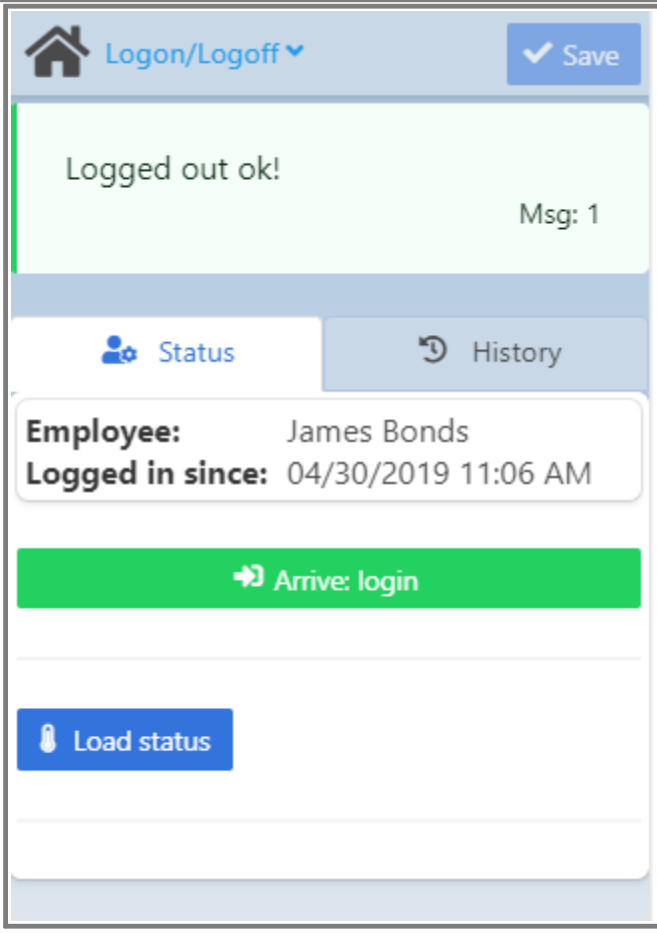
© 2026 Boyum IT Solutions A/S

Field / Controls	Description
Message field	Dynamic screen section above the two tabs broaden when showing a message. The number of messages is indicated in the right bottom corner (***see*** image in "Arrive: login" section. The "Msg: 1" indicates the number of messages displayed). When the employee exits the app to start work with the Terminal functions, and returns to this app, this field is blank / not displayed (***see*** image in "Logged in since" field description row below.)
Employee	Information field automatically filled at login with card number.
Logged in since:	Date and exact time in mm/dd/yyyy and hh:mm AM/PM format showing the last login time of the employee: 
Arrive: Login / Leave: Logout	⊟ Tap button to login Once you tap the "Arrive: login" button, the message "Login successful" is displayed in the message field on the top. The button color turns red and displays "Leave: logout" .

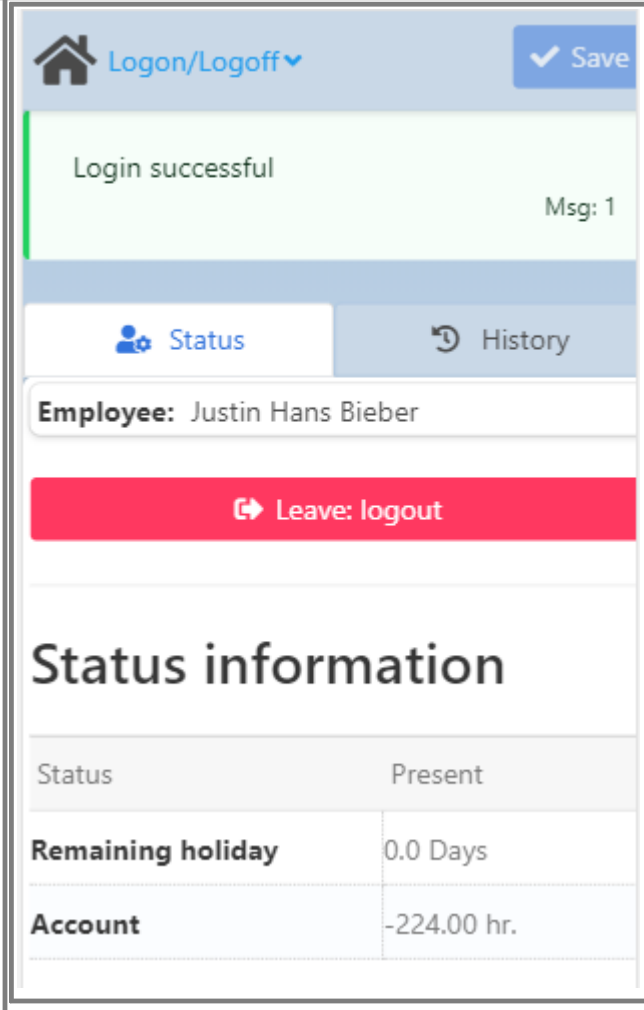
© 2026 Boyum IT Solutions A/S

Field / Controls	Description
	 At the end of the shift you can tap the "Leave: logout" button and the "Logged out OK!" message is displayed on the top. The button color turns back to green and displays "Arrive: login" (***see*** image below).

© 2026 Boyum IT Solutions A/S

Field / Controls	Description
	
Load status	⊟ Check status information of the employee Tap this button (***see*** image above) to see status information on the remaining holidays and working hours of the logged in employee:

© 2026 Boyum IT Solutions A/S

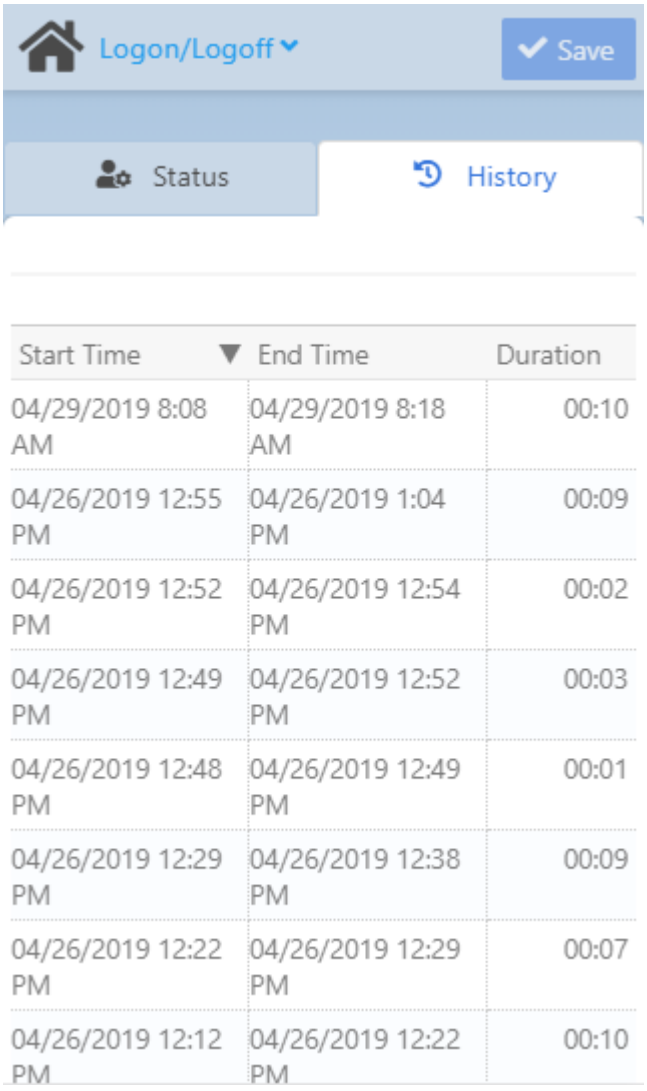
Field / Controls	Description
	

History tab

The History tab lists the last login times in a chronological order with the most recent on top. Start / End Times and the Duration are indicated for each login in the list.

Start / End times are provided in mm/dd/yyyy and format, and duration is displayed in hh/mm/ss. It is possible to reverse the chronological order of logins with the ▼ button in the right side of the "Start Time" column.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Description
Start Time	dd/mm/yyyy 0-12h AM/PM format for attendance starting time.
End Time	dd/mm/yyyy 0-12h AM/PM format for logoff time
Duration	Time elapsed between start and end time in hours and minutes.

Limitations

Shift model "Manually" is not supported.

© 2026 Boyum IT Solutions A/S

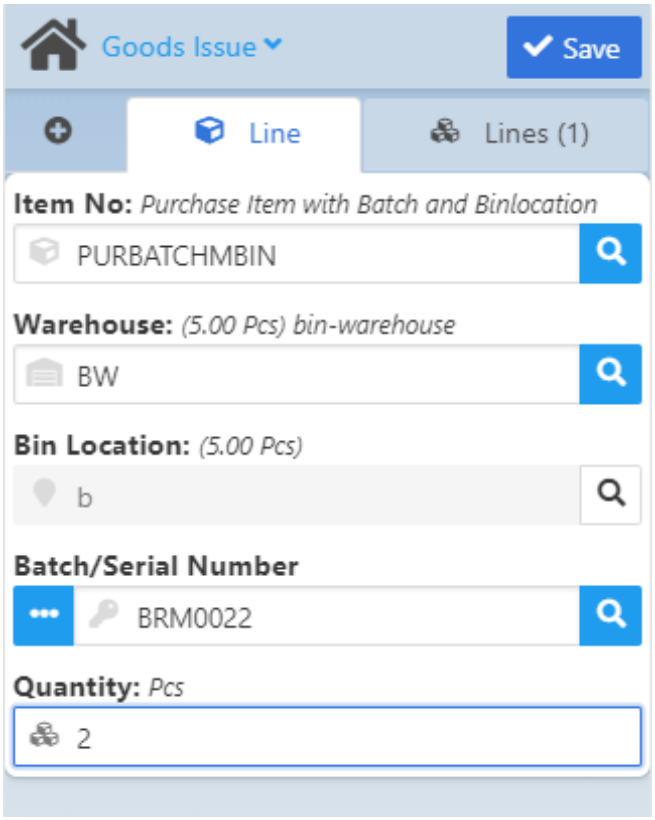
17.4.4 Goods Issue

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Material Management (Issue, Receipt, Allocation)	Warehouse Support SAP Bin Management Beas Bin Management WMS Bin Management	Print Document Support Asynchronous working

The Goods issue app makes it possible to issue multiple items of all types with a single document.
Once a goods issue document is created, it appears in the relevant screens of SAP B1.
The app consists of two tabs: Line and Lines (number of lines indicated in brackets).
See basic WebApp controls in General Information on WEB APPS Version 2.1.
See Manual postings - Goods issue.
See Configuration wizard settings of the Web Terminal.
See App Setup.

Line tab
In this tab you can provide all mandatory and various optional information to issue an item.
Once all information are entered for an item, you can add another line to the Goods issue document with the plus icon.

© 2026 Boyum IT Solutions A/S



Field descriptions

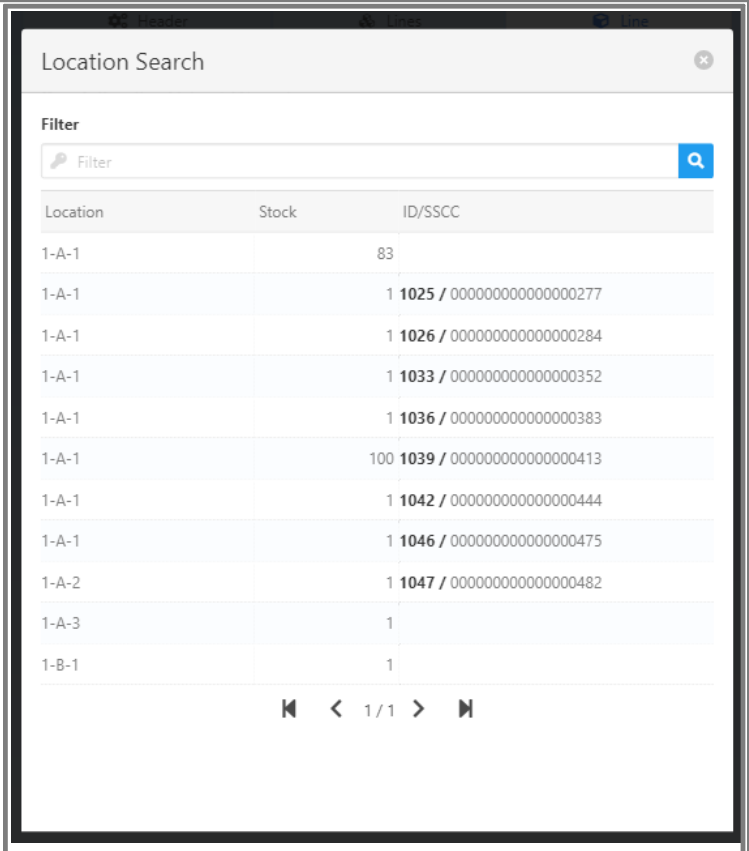
Field	Description
Item No.	Select the Item to issue. The caption above the field gives a description on the exact type: in the example (***see*** image above) the selected entry is a "Purchase Item with Batch and Bin location". This field supports GS1-128 bar code scanning. Search for an item. Note on WMS Quality Status filtering **WMS Integration -** When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS. NOTE: WMS quality status is not defined per serial number. For this reason, all serial numbers of the same LUID will be displayed in the material issue list, even if they have different

© 2026 Boyum IT Solutions A/S

Field	Description
	WMS quality statuses. Only quantity available in an unblocked for production status can be issued. ***See*** further, up-to-date information on WMS-BEAS integration.
I-Version	Editable in case of version-managed items. If the item has several versions, you can select the version with the magnifying glass or simply start typing it in the field. When the item is batch-managed, this field also shows the number of selected batches.
Warehouse	Select the warehouse for the goods issue. After the selection, the Warehouse code is displayed. The exact name of the warehouse and the available number with the unit of measure for the selected item are indicated in brackets above the field. ***see*** image: "*(5.00 Pcs) bin-warehouse*". When adding a new line, the last used Warehouse (and bin location if applicable) is automatically filled by the system and can be changed.
Bin Location	Display bin location When the Warehouse for the item has been selected, this field shows the exact bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field. The available number for the selected item is indicated in brackets above the field. (***see*** image above). WMS support for LUID/SSCC selection For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when you tap the magnifying glass icon.

© 2026 Boyum IT Solutions A/S

Field	Description



Field	Description
Location	Bin Location ID
Stock	Available quantity in the bin location
ID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.

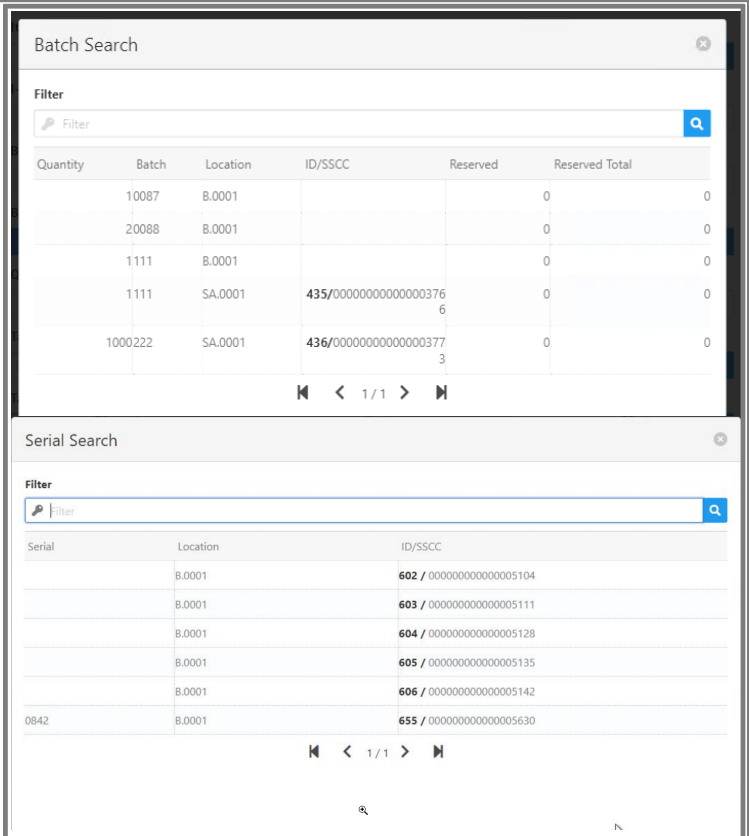
Mobile View:

The field is only visible if the field is required.

© 2026 Boyum IT Solutions A/S

Field	Description
	Desktop / Tablet View: The field is non-editable if the field is not required. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.
Batch/Serial Number	Batch/Serial Number screen details The magnifying glass opens the Batch/Serial search screen where you can perform further filtering for the name of the batch/serial. The screen shows the names and bin locations of the available batches/serials: Batch Search screen Open the Batch/Serial Search window with the magnifying glass icon right of the field. After selecting a batch, the LUID and SSCC and the available quantity is displayed in the main app screen, right of the "Batch/Serial Number" field name.

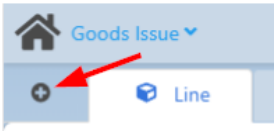
© 2026 Boyum IT Solutions A/S

Field	Description
	

Field descriptions

Field	Description
Filter	Search for a specific batch. **WMS integration** note: It is possible to filter with LUID/SSCC number. ***See*** SSCC support and further, up-to-date information on WMS-BEAS integration.
Available	Total available quantity. **WMS integration:** This field

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>considers all units available for WMS lock types "Batch", "LUID" and "Detail".</td></tr>
<tr><td>Batch/Serial</td><td>Batch number</td></tr>
<tr><td>Location</td><td>Bin Location number</td></tr>
<tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS)
The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr>
<tr><td>Reserved</td><td>Reserved batch quantity</td></tr>
<tr><td>Reserved Total</td><td>All reserved batch quantity.
WMS Integration: The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".</td></tr>
</table>
IMPORTANT: If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+": 

.

Limitation: 1 batch / 1 bin location = If you need to issue another batch from a different bin location, you must create another document.

WMS integration: Filter batches by LUID.
The opens the "Batch/Serials: Extended Information" screen. In this application you can edit Batch/Serial number, Version and Quantity fields. See other, non-editable attributes in Extended information screen.
See further, up-to-date information on WMS-BEAS integration.
</td></tr>
</table>

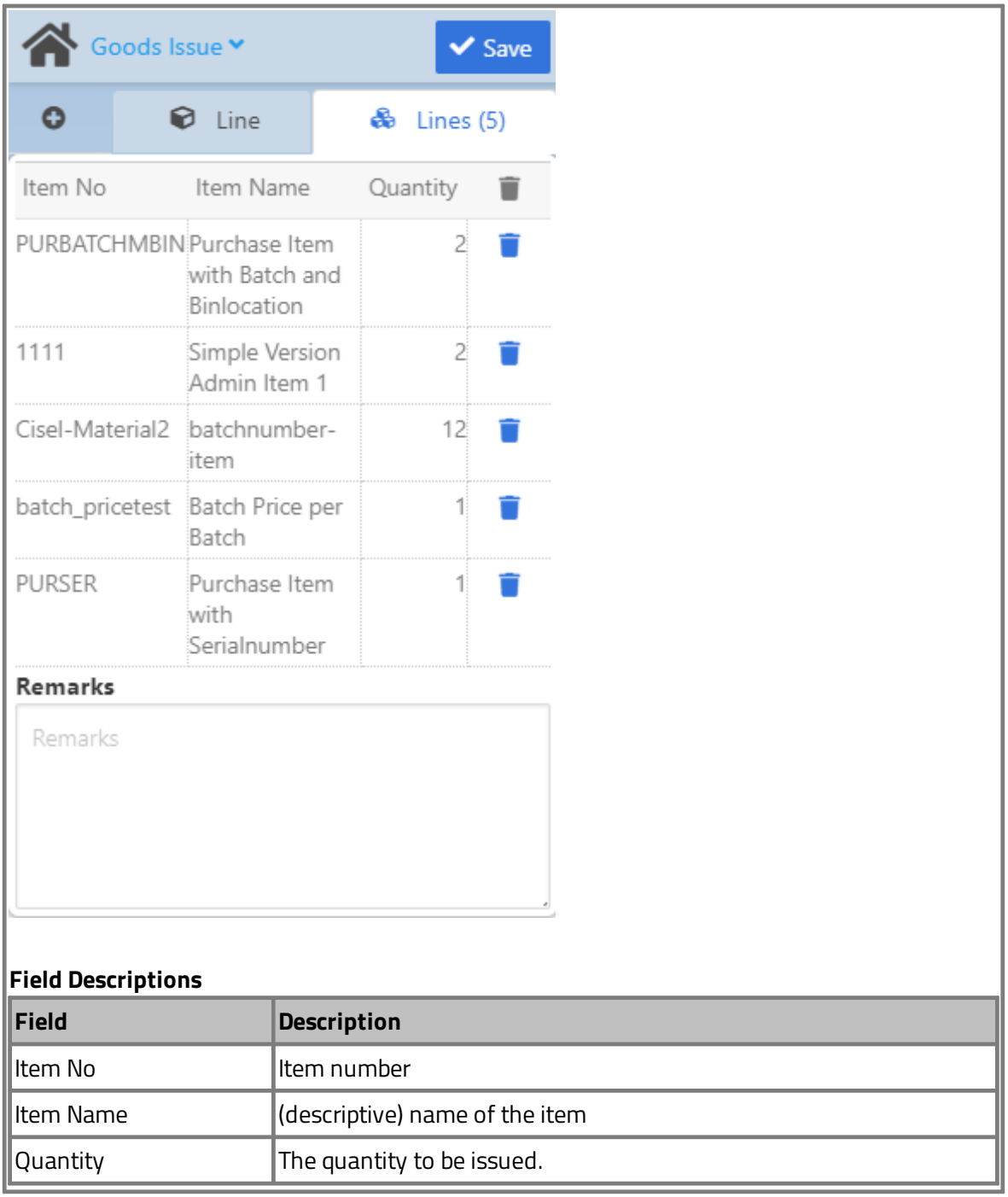
© 2026 Boyum IT Solutions A/S

Field	Description
	Mobile View: The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required.
Quantity	Provide the number of the items to be issued. The unit of measure is called from the master data and is indicated above the field. (***see*** image above) Note: Units of measure may be entered with decimals but using the up and down selection arrows in the right side of the field can only provide the nearest rounded values.

Lines tab

The single lines are listed in this tab and can be edited or deleted at any time before Saving the document.
The tab shows Item information by Item Number, Item Name and Quantity. It is also possible to add remarks in the bottom screen section.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Description
Item No	Item number
Item Name	(descriptive) name of the item
Quantity	The quantity to be issued.

17.4.5 Goods Receipt

Browser

Bar code

License

Warehouse Support

© 2026 Boyum IT Solutions A/S

	Optimized for Zebra Scanner	Support	Support	Material Management (Issue, Receipt, Allocation)	SAP Bin Management Beas Bin Management	Print Document Support Asynchronous working

The Goods Receipt app makes it possible to create a receipt for multiple incoming items of all types with a single document.

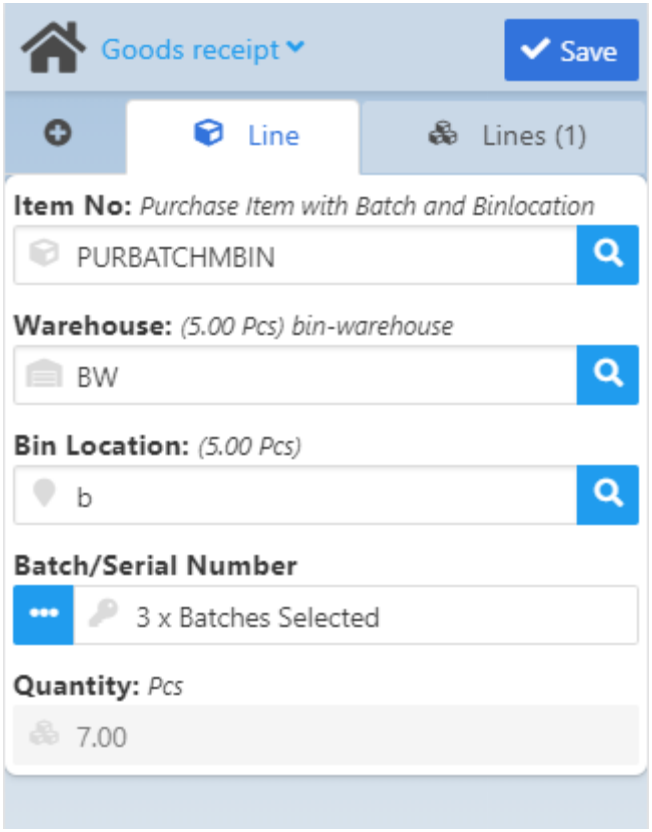
The app consists of two tabs: Line and Lines (number of lines indicated in brackets).

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Manual postings - Goods issue.

See Configuration wizard settings of the Web Terminal.

Line tab

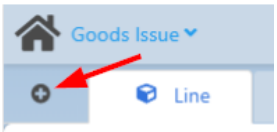


Field Descriptions

© 2026 Boyum IT Solutions A/S

Field	Description
Item No	Select the Item to post in. The caption above the field gives a description on the exact type: in the example above (***see*** image) the selected entry is a "Purchase Item with Batch and Bin location". This field supports GS1-128 bar code scanning.
I-Version	Visible and editable in case of version-managed items. If the item has several versions, you can select the version with the magnifying glass or simply start typing it in the field. When the item is batch-managed, this field also shows the number of selected batches. Note: It is only possible to create a manual receipt of an item version with "Released" status.
Warehouse	Select the warehouse for the goods receipt. After the selection, the Warehouse code is displayed. The exact name of the warehouse and the actual number of items in the warehouse are indicated in brackets above the field. The last used Warehouse is automatically stored and used by the system at the next document creation.
Bin Location	Select bin location. When selecting a bin warehouse, this field is activated to select a bin location for the item. The actual number of items in the bin is indicated in brackets above the field. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or

© 2026 Boyum IT Solutions A/S

Field	Description
	Beas bin-managed warehouse.
Batch/Serial Number	Define a Batch/Serial number The … opens the "Batch/Serials: Extended Information" screen. In this application you can edit all applicable fields (in "Receipt mode" – ***see*** link below). It is possible to create a goods receipt for a number of batches/serials of the same item with the plus icon. The field in the main screen then displays the number of selected batches – ***see*** image above. **WMS Integration:** Batch attributes are supported. ***See*** Receipt mode, field names and accessible fields in Extended information screen. Note: If mandatory information is missing in the Extended information screen, the Batch/Serial Number field will indicate it with a red border in the main screen, even though the field itself is not empty. In case of a serial-managed item, the serial mode is automatic: you can leave the serial field empty, and the quantities will be picked automatically by Beas. On how to input a large number of serials ***see*** Massive serial input. **IMPORTANT:** If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+":  .
Quantity	Provide the quantity of the items to be issued. The Unit of measure is indicated above the field (***see*** image above) and called from the item master data.

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: Units of measure may be entered with decimals but using the up and down selection arrows in the right side of the field can only provide rounded values.

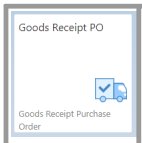
Lines tab

See Lines tab functions and layout

Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

17.4.6 Goods Receipt PO



Optimized for Zebra Scanner

Browser Support

Bar code Support

License Goods Receipt for Purchase License

Warehouse Support
SAP Bin Management
Beas Bin Management

Print Document

Support Asynchronous working

The Goods Receipt PO app makes it possible to create a goods receipt for multiple items of a Purchase Order with a single document.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Goods Receipt PO

See Configuration wizard settings of the Web Terminal.

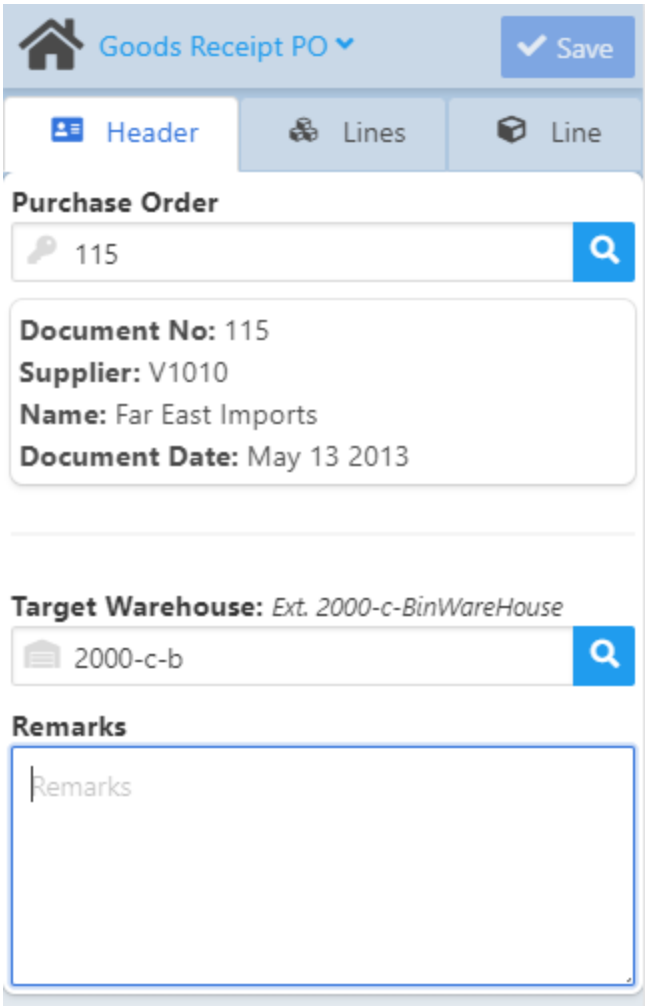
WMS: No WMS support.

Header tab

In the Header tab you can select a Purchase Order, a Target Warehouse for the incoming goods, and enter any remarks.

Once the PO is selected, core information on the PO document are displayed:

© 2026 Boyum IT Solutions A/S



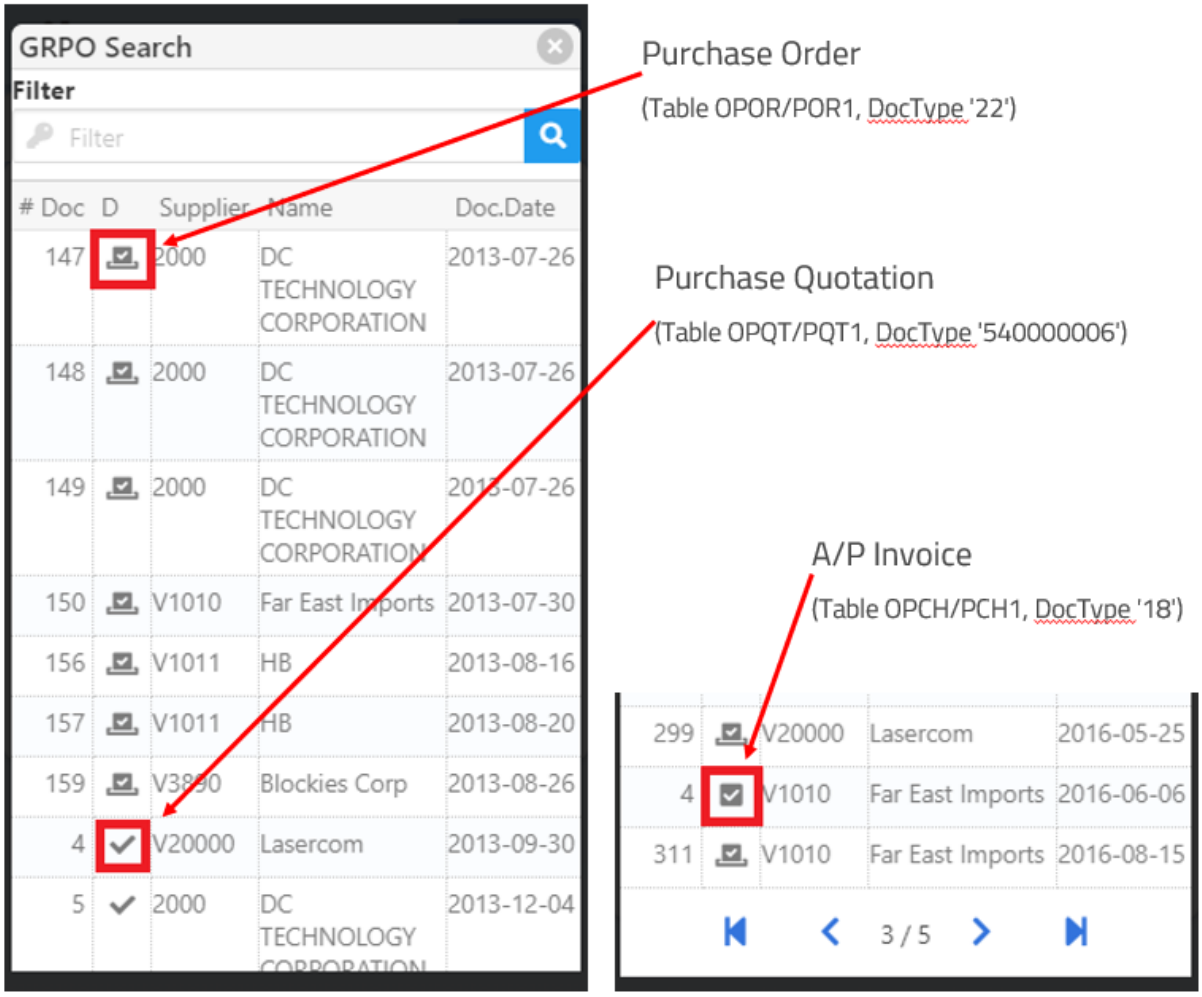
Field Descriptions

Field	Description
Purchase Order	Select a purchase order from the list to create goods receipt document.
Target Warehouse	Select a warehouse for the incoming goods.
Remarks	Enter your remarks for the goods receipt document.
Document No	The number of the PO document in SAP.
Supplier	Card Code of supplier in SAP.
Name	Name of supplier.
Document Date	The day that the PO was created.

© 2026 Boyum IT Solutions A/S

Filter screen for documents:

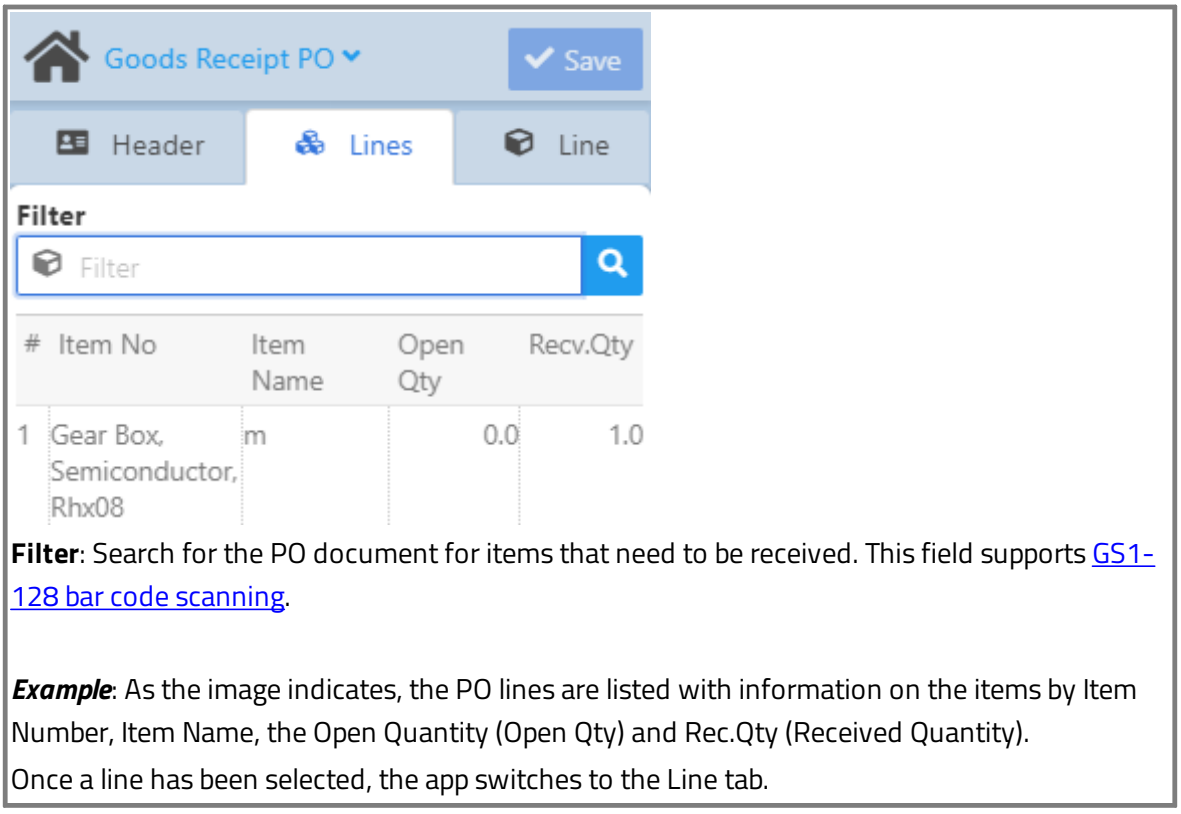
In this app, we display different icons based on the Document Type. ***See*** image below.



Lines tab

The Line – Lines tabs function are therefore located in reverse order.
The reason for this is that, in a Purchase Order, the number of lines is given, and therefore a PO line has to be selected first.
Once the mandatory information are entered in the Header tab, the app switches right to the Lines tab.

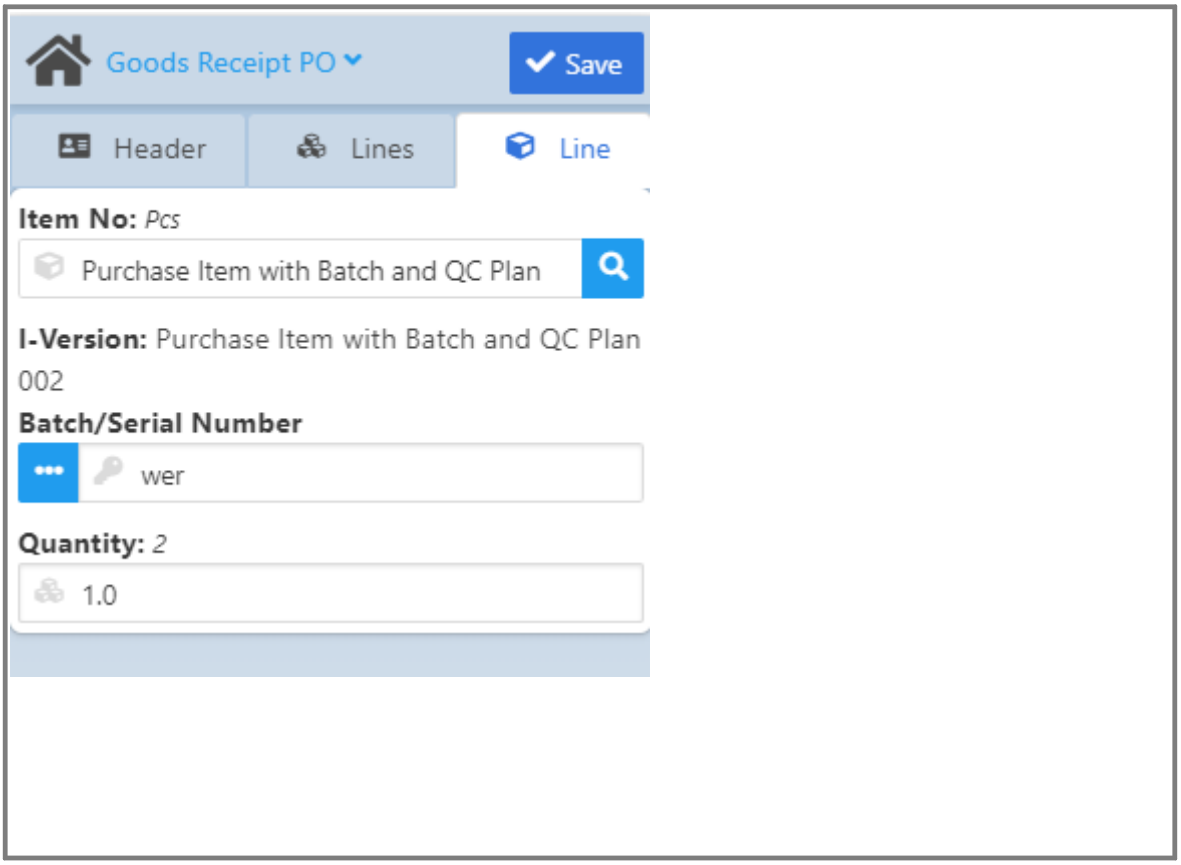
© 2026 Boyum IT Solutions A/S



Filter: Search for the PO document for items that need to be received. This field supports GS1-128 bar code scanning.

Example: As the image indicates, the PO lines are listed with information on the items by Item Number, Item Name, the Open Quantity (Open Qty) and Rec.Qty (Received Quantity).
Once a line has been selected, the app switches to the Line tab.

Line tab



© 2026 Boyum IT Solutions A/S

In the Line tab you can enter the quantity of the selected item to be received in the relevant unit of measure. Item Number and also I-Version (if applicable) are automatically filled.

Bin Location

When the target warehouse is a bin warehouse, you need to select a bin location, as well. The actual number of items in the bin is indicated in brackets above the field.

LIMITATION: The receipt process linked with a purchase order is not able to create receipt for the same line into 2 different bin locations at the same time. As a workaround for this, the user can generate the receipt document in 2 steps or receipt full quantity in one bin location and move the required quantity to a different location after the receipt is created.

The screen also displays Batch/Serial Number information when applicable. ***See*** Batch/Serial extended information.

After entering the quantity below, the Goods Receipt PO document is ready to be created. (also ***see*** Save button)

Example: In the above image we selected 1Pcs of an item. By going back to the Lines tab you can see that the receipt of 1 Pcs for the selected item has been entered:

#	Item No	Item Name	Open Qty	Recv.Qty
1	Purchase Item with Batch and QC Plan	Pcs	NaN	1.0

See Massive input of serials.

Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

17.4.7 Batch/Serial Inv. Info

Optimized for Zebra Scanner

Browser Support

Bar code Support

License Material Management (Issue, Receipt, Allocation)

Warehouse Support SAP Bin Management Beas Bin Management

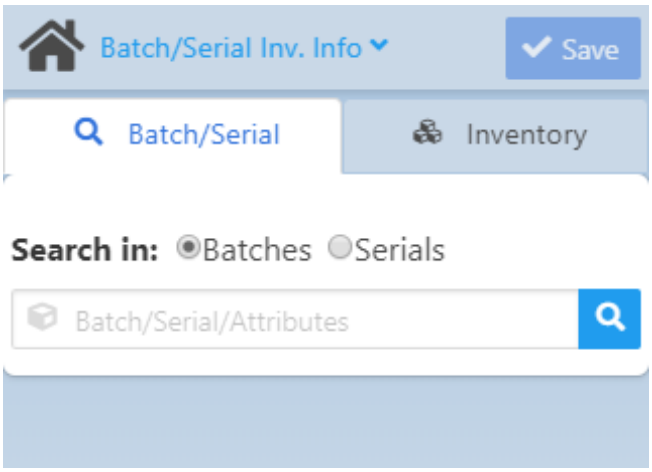
© 2026 Boyum IT Solutions A/S

					WMS Bin Management

With this app it is possible to get "stock-on-Warehouse" information for batches and single serials.
The app consists of two tabs: Batch/Serial tab and Inventory tab.
See basic WebApp controls in General Information on WEB APPS Version 2.1.
See Configuration wizard settings of the Web Terminal.

App setting
Show attachments: Activate check box to display attachments of an item in the app.

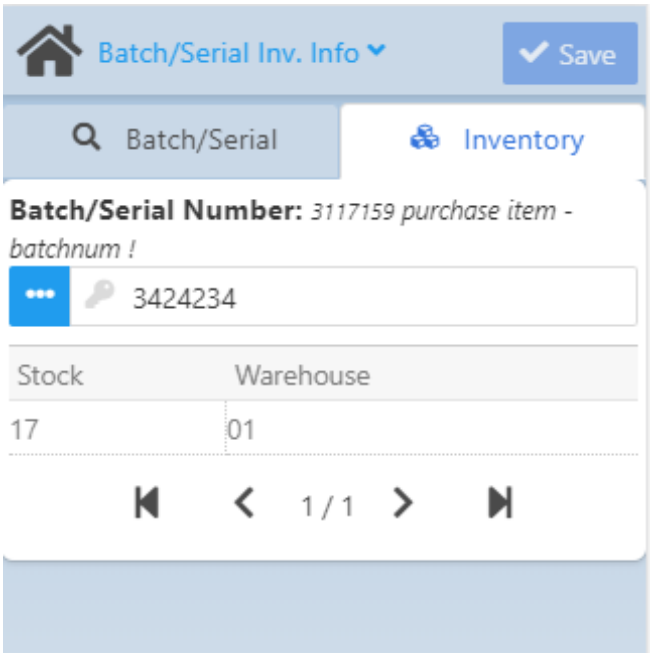
Batch/Serial tab



Search in: select Batches or Serials before selecting an item to retrieve information on it. ***See*** image above.
The listed item(s) are displayed with ItemNo, ItemName and Batch/Serial number information.
When selecting an item, the tab switches to the Inventory tab.
This field supports GS1-128 bar code scanning.

Inventory tab

© 2026 Boyum IT Solutions A/S



The inventory tab displays the Stock and Warehouse information for the selected batch/serial.
In the ***example*** (***see*** image above) we searched for the Inventory information of a specific batch of purchase item - batchnum! "3117159"
According to the search result, the batch contains 17 items in Warehouse 01.

Note: the same batch can be located in more than one warehouse simultaneously.

Field Descriptions

Field	Description
Batch/Serial Number	This field displays the selected batch/serial number. Click on the ••• button to open a list of further attributes on the selected batch/serial in another screen named "Extended information". The attribute fields in this app are only for information purposes. The information is directly called from the Item master and is non-editable (in "issue mode"). ***See*** the different modes.
Stock	Displays the stock level of the batch/serial-managed item in inventory UoM.
Warehouse	The warehouse where the batch/serial item is found.

© 2026 Boyum IT Solutions A/S

17.4.8 Inventory Counting - by item

Inventory Counting Item Inventory Counting by Item	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Inventory	Warehouse Support Beas Bin Management

See basic WebApp controls in General Information on WEB APPS Version 2.1.

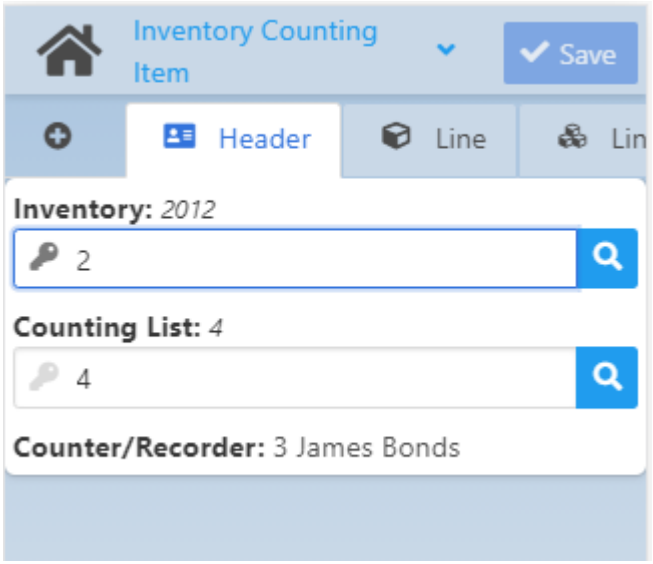
See Configuration wizard settings of the Web Terminal.

With the Inventory Counting Web App it is possible to select the counting list, read item bar codes, and add quantities to an existing counting list without displaying the counting list.

The app consists of three tabs in the order of Header, Line and Lines.

Header tab

The Header tab is used to identify the counting list.



Field Descriptions

Field	Description
Inventory	Select the inventory for counting. By tapping the Magnifying glass icon right to the field, the "Inventory Search" filter screen appears.

© 2026 Boyum IT Solutions A/S

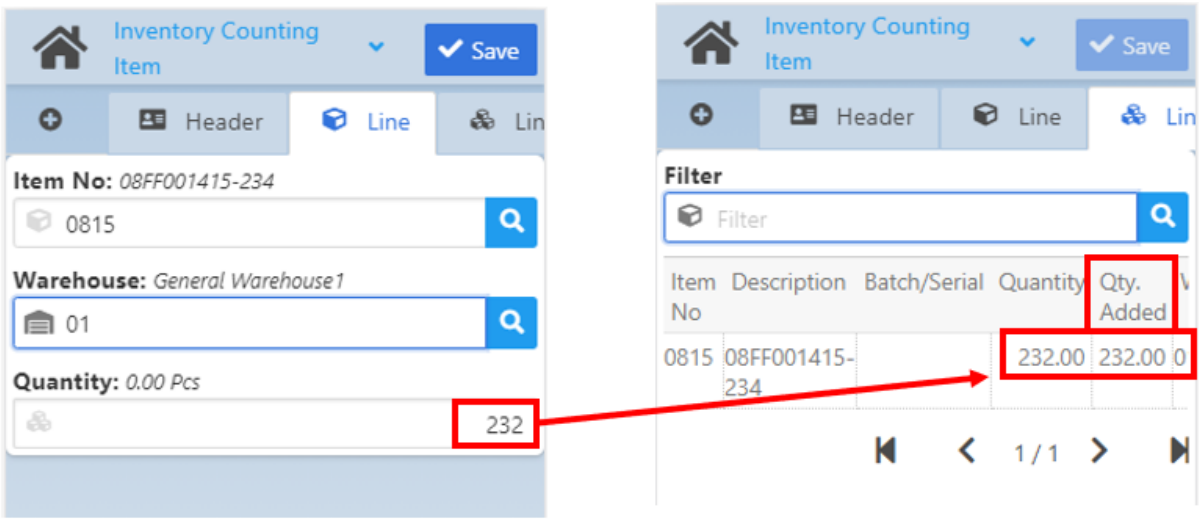
Field	Description
Counting list	In this field you can provide the counting list. By tapping the magnifying glass icon right to the field, the "Counting Search" filter screen appears.
Counter/Recorder	The name of the user performing inventory counting.

Line and Lines tabs

Once you define the counting list, the app switches to the Line tab. Here you must provide all item-specific information such as Item number, Warehouse information, Bin location (in case of bin warehouse), batch/serial number/ I-version (if applicable) and quantity.

Note: Only one, existing batch/serial is available per line. New batches cannot be added.

Once all mandatory information are filled for the item in the Line tab, tap **Save** and the item is displayed with the added quantity in the list of items in the Lines tab (***see*** image below). When adding a new line, the last used Warehouse and Bin location information are automatically filled.



Line

Field Descriptions

Field	Description
Item No	Item number. The item name is displayed on top of the field in *italics*.
I-Version	Field is active in case of version-managed items. Select an item version by tapping the Magnifying glass button. Note: Only active versions are displayed.
Batch/Serial Number	Batch/Serial Number. ***See*** also Batch/Serial Extended Information.
Warehouse	The warehouse where the item is found.

© 2026 Boyum IT Solutions A/S

Field	Description
Quantity	Quantity based on the warehouse stock

Lines

Field Descriptions

Field	Description
Item No	Item number
Description	(Descriptive) item name
Batch/Serial	Batch/Serial number
Quantity	Quantity based on the warehouse stock
Qty. Added	Quantity based on the warehouse stock added to the counting.
Warehouse	Warehouse code
Location	Bin Location

See also Enter barcodes

Inventory Couting by Item and List

17.4.9 Inventory Counting - List

Optimized for Zebra Scanner

Browser Support

Bar code Support

License Inventory

Warehouse Support

Beas Bin Management

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

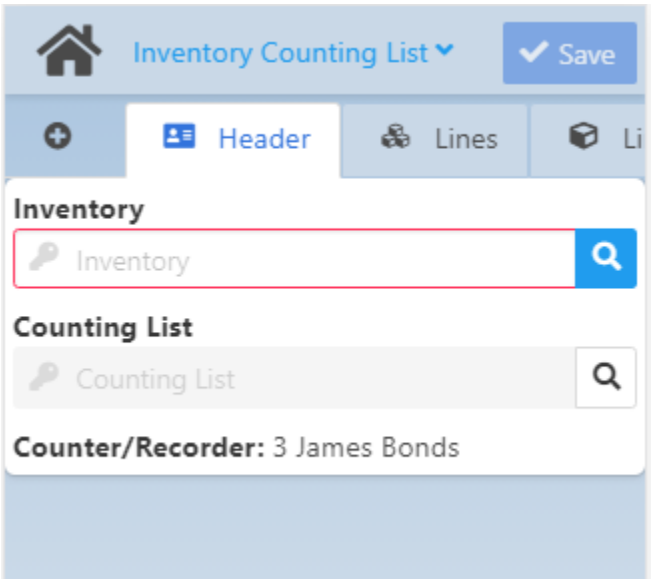
With this app it is possible to select a counting list and edit the quantity directly in the list view.

The app consists of three tabs in the order of Header, Lines and Line.

Header tab

In this tab you can identify the counting list.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Description
Inventory	Select the inventory for counting. By tapping the Magnifying glass icon right to the field, the "Inventory Search" filter screen appears.
Counting list	In this field you can provide the counting list. By tapping the Magnifying glass icon right to the field, the "Counting Search" filter screen appears.
Counter/Recorder	The name of the user performing inventory counting.

Lines tab

Once the counting list is selected in the Header tab, the screen switches automatically to the Lines tab where you can select the quantity by using the "-" and "+" buttons (***see*** image below).
To add an item that is not in the list, tap the plus icon top left.

Filter field

1. Select items by providing the "ItemCode" Barcode field stored in the Item Master Data.

or

2. Scan GS1-128 Barcode.

Use a GS1-128 Code from the filter list to set the Quantity for a given BarCode and Batch/Serial in one shot.
See VIDEO

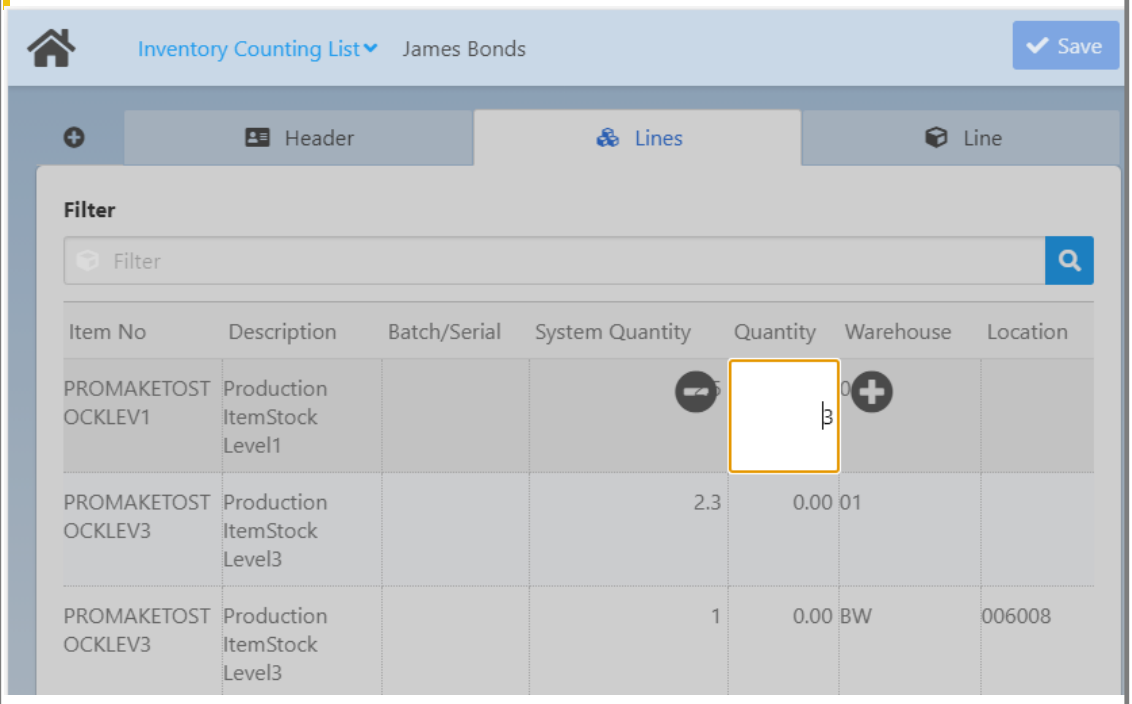
The AI needed in the GS1-128 are:

© 2026 Boyum IT Solutions A/S

- 01 GTiN (the EAN barcode)
- 10 or 21 Batch/Serial code
- 30 Quantity

Filter the list by bar code and batch/serial and if there is one result only, set the given price to this line (The line remains open to accept any modification but any touch/click outside will bring back the focus to the filter control to scan the next bar code).

Note: Smaller tablet screens and mobile phones show only 3 columns. Therefore, the app is recommended for larger screens or tablets as the line in the list needs to display warehouse, batch/serial and bin location information and confirmed quantity.

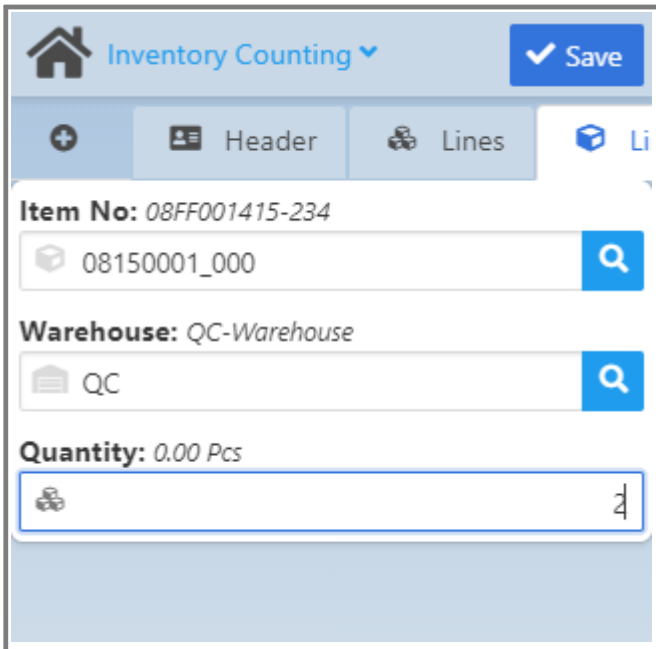


Note: Only one, existing batch/serial is available per line. New batches cannot be added.

Line tab

The Line tab becomes available once the user taps "**+**"in the left top corner to add a new line. It is mandatory to add item-specific information such as Item number, Warehouse information, Bin location (in case of bin warehouse), batch/serial number/ I-version (if applicable) and quantity.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Description
Item No	Item number. The field can be filled at once by scanning the "Item Code", and the "Batch/Serial" and the quantity. GS1-128 Bar code is supported.
Warehouse	Select a warehouse
Quantity	Confirm quantity to add to the counting list.

Note: As of Beas 9.3 PL03 changing the quantity in the WebApp is not indicated in the Change history of the Inventory list in the system.

See also Enter counting: selection

Inventory Couting by Item and List

17.4.10 Invent.History

	 Optimized for Zebra Scanner	Browser Support	Bar code Support	License Material Management (Issue, Receipt, Allocation)	Warehouse Support SAP Bin Management Beas Bin Management

© 2026 Boyum IT Solutions A/S

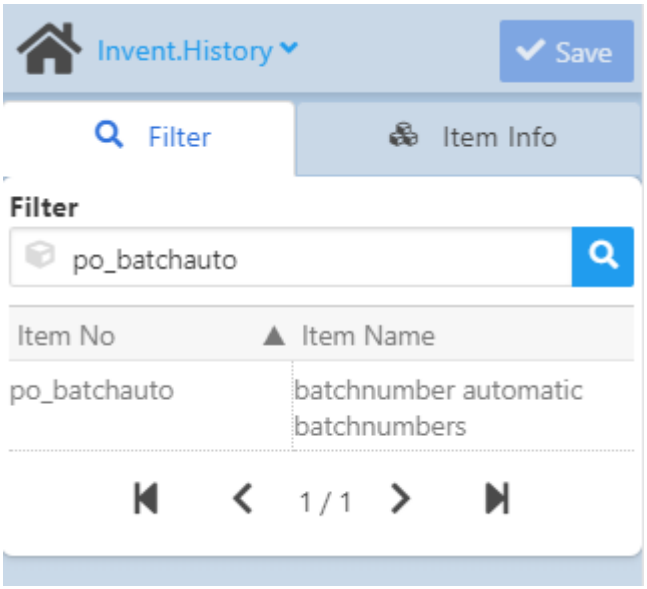
					WMS Bin Management

With the Invent.History app it is possible to display stock information on selected items.
The app has three tabs:
- Filter
- Item info
- Reserved

See basic WebApp controls in General Information on WEB APPS Version 2.1.
See Configuration wizard settings of the Web Terminal.
See App Setup.

App setting
Show attachments: Activate check box to display attachments of an item in the app.

Filter tab
The filtered items are displayed with Item Code and Item Name information.
General filtering controls are available.



Item Info tab

The item name is located top left in the Item Info tab screen. The type of item is indicated as a brief description in smaller font under the Item name – ***see*** image below: "Purchase item with batch"

© 2026 Boyum IT Solutions A/S

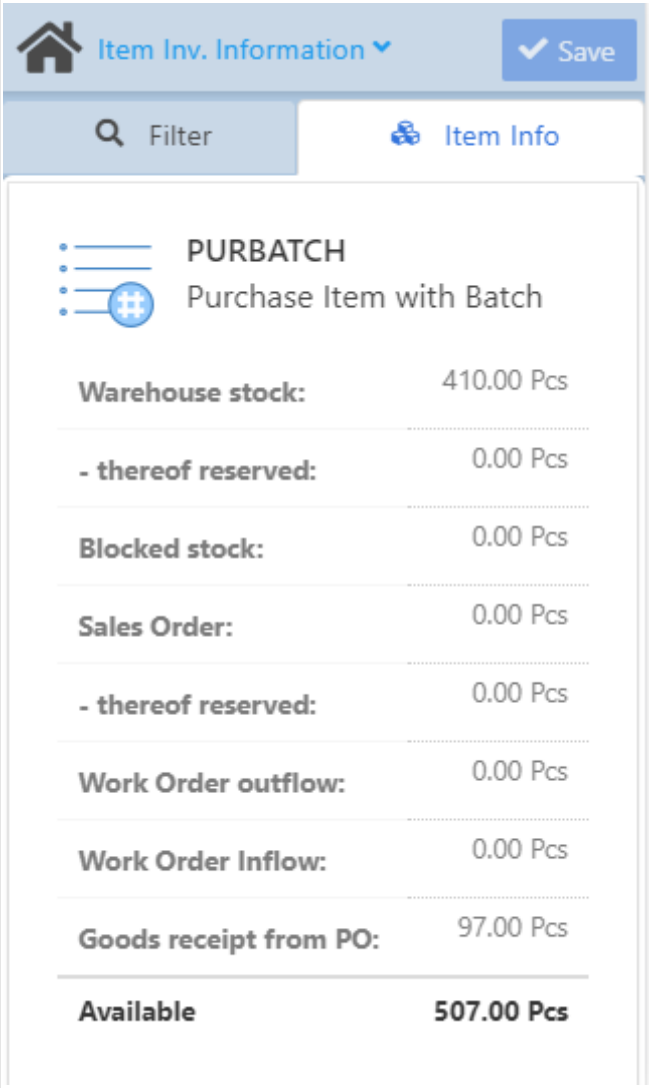
The upper section of the screen gives a summary of all available warehouse stock by breaking it down to blocked stock, *thereof reserved stock, WO inflow / outflow quantities, Sales Order and SO reserved stock counted in the Unit of Measure set in the Master Data. The summary also contains quantities coming from Goods Receipt from Purchase order (GRPO). ***Example***: ***see*** image below: 97.00 Pcs come from GRPO.

IMPORTANT:

NOTE on WMS Integration:

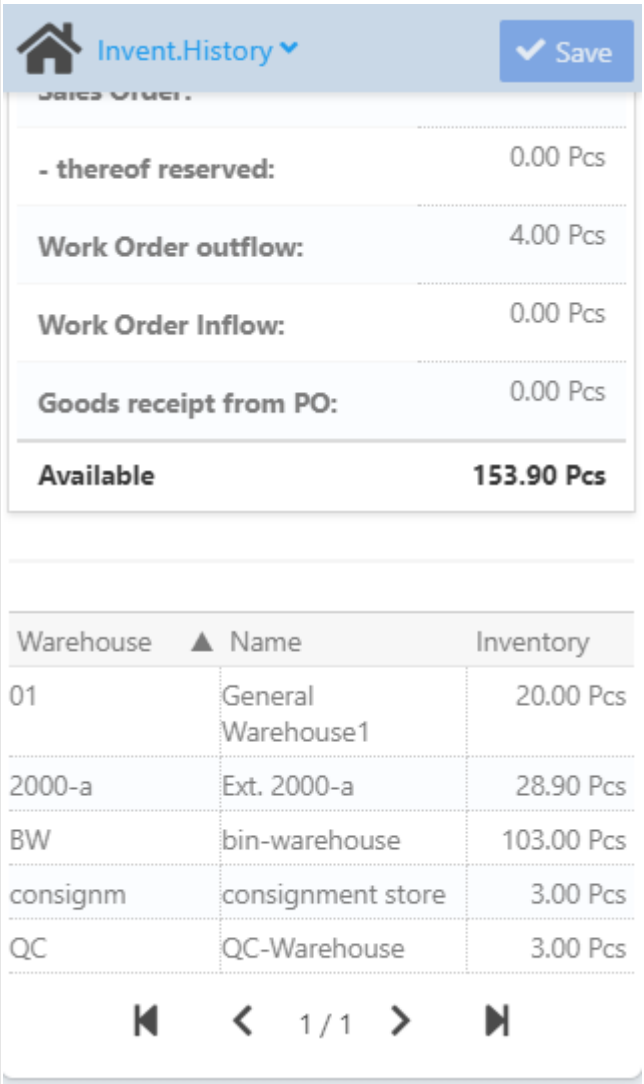
*thereof reserved stock: This field considers all units available for WMS lock types Batch, LUID and Detail.

See details in the desktop solution documentation.



© 2026 Boyum IT Solutions A/S

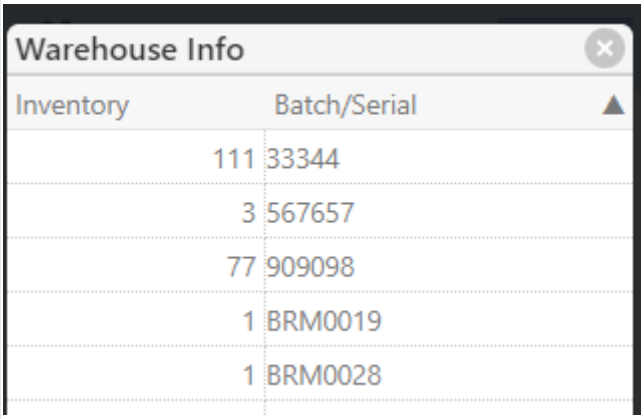
The lower screen section provides a breakdown view into the single warehouses where the stock (without GRPO) is distributed. Scroll down to see stock distribution.
Example: ***see*** image below: Out of the 153.90 Pcs distributed in the various warehouses, General Warehouse 1 (with Warehouse code: 01) contains 20.00 Pcs of the item.



In case of batch/serial-managed items, it is possible to tap on a specific warehouse line in the lower screen section.
This will open the Warehouse Info screen with a list showing available stock in the pre-defined unit of measure by batches/serials.
In case of items not managed by batches or serials, the system displays detailed information only for Beas warehouses. For normal and SAP Bin warehouses, the system does not display any additional information.

© 2026 Boyum IT Solutions A/S

Warehouse Info screen:

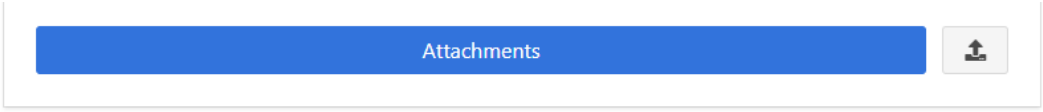


Attachments:

- View attached images or document files.

Tap the active (blue) Attachments button to view attached images / files.

In this app, the uploading of files is not supported and therefore the Upload button is disabled:



Note: You may need a proper viewer on your device to open the document (especially if you are using a mobile device).

Settings:

Show attachments:

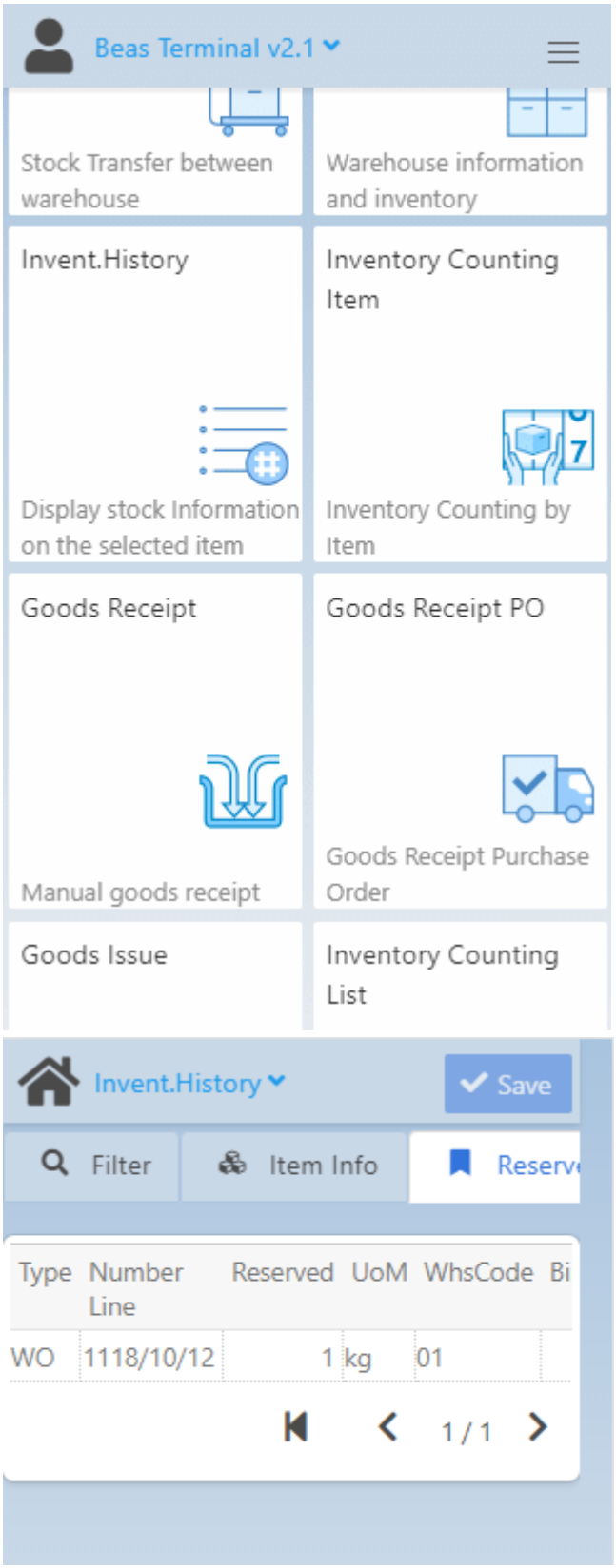
PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

Activate check box to display attachments in the app.

Reserved tab

This tab displays all existing reservations for the selected item.

© 2026 Boyum IT Solutions A/S



© 2026 Boyum IT Solutions A/S

The reservation information appears in a list with the following data:

Field	Description
Type	Document type
Number Line	Document line - position number
Reserved	Total Reserved quantity. **WMS integration:** This field considers all units reserved for WMS lock types Batch, LUID and Detail.
UoM	Unit of Measure
WhsCode	Warehouse code
BinCode	Bin Location code
DistNumber	Batch or serial number information
I-Version	Item Version

See also WO Material Reservation and Reservation List

17.4.11 Picking SO

	 Optimized for Zebra Scanner	Browser Support 	 Bar code Support	License Material Management (Issue, Receipt, Allocation)	Warehouse Support SAP Bin Management Beas Bin Management	 Print Document

With this app you can pick quantities using the SAP B1 Sales order as reference and reserving in Beas.

The user can create a delivery document from the reserved quantities.

See basic WebApp controls and basic functions in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

> Attention: Beas does not support non-inventory Items in this app.

App settings

© 2026 Boyum IT Solutions A/S

Print solution:

Select which document should be printed by the print solution.

Off: no printing

Crystal: Print Inventory or Sales Order

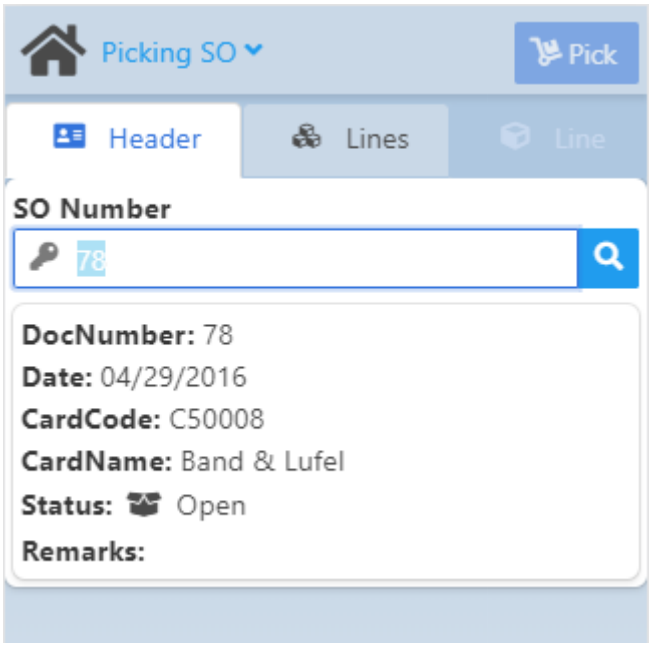
RTF: Print Inventory or Sales Order

Script: Print Inventory or Sales Order

See detailed description of Print types.

Header tab

After selecting a Sales Order, the following information are displayed:



Field Descriptions

Field	Description
SO Number	Filter field for Sales orders. This field supports GS1-128 bar code scanning.
DocNumber	The number of the Sales order document in SAP
Date	Displays the creation date of the Sales order document
CardCode	Customer code
CardName	Customer name
Status	Document status read from SAP Business One:

© 2026 Boyum IT Solutions A/S

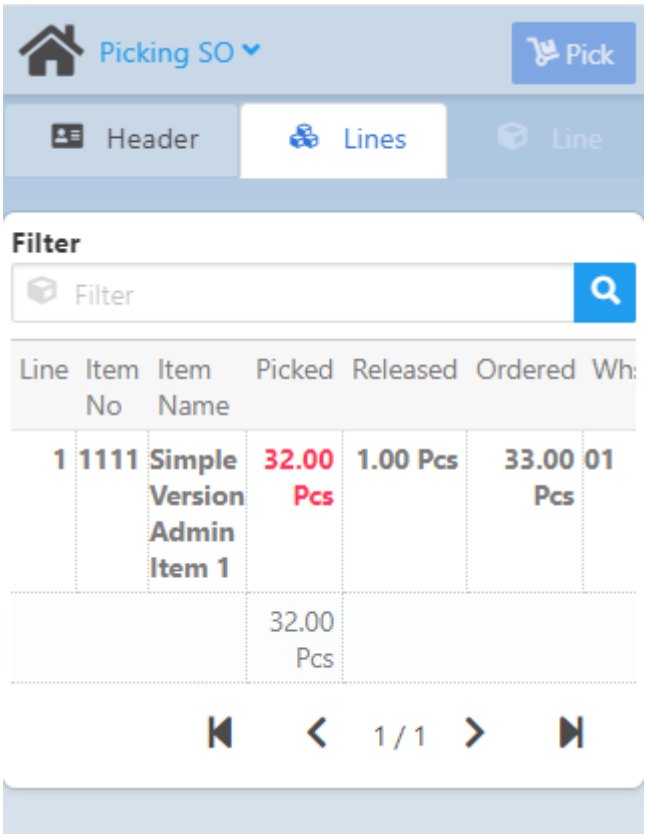
Field	Description
	- Open - Closed
Remarks	Free text.

Lines tab

In the Lines tab the user can select the items and the reserved quantities from the document.

The list is read-only and displayed with 2 types of rows" 1 with the item required and total picked quantity and each of them with secondary lines that show details: the picked Bin location / Batch or Serial / and Quantity / delete icon.

After selecting any Main line, the system goes to line tab to add a new quantity.



Available Quantity is based on the quantity that is not reserved, considering Batches -Serials - Bin Locations.

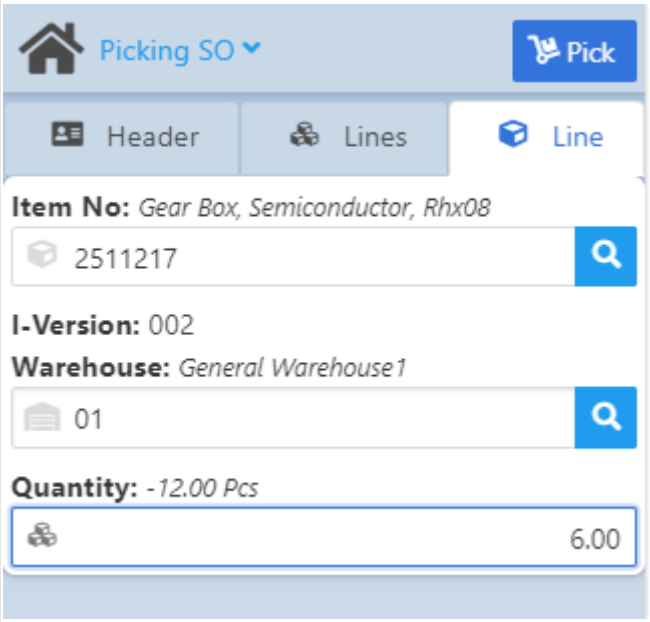
Field Descriptions

© 2026 Boyum IT Solutions A/S

Field	Description
Line	Line number inside the sales order document
Item No	Item number
Item Name	(Descriptive) Item name
Picked	Picked quantity
Released	Released quantity
Ordered	Ordered quantity
WhsCode	Warehouse code

Line tab

In the Line tab you can provide Warehouse and item-specific information and the quantity to be picked.



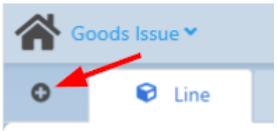
Field Descriptions

Field	Description
Item No.	Item number. Select an item from the filter screen that opens with the magnifying glass button.
I-Version	Item version - field displays information in case of version-managed items.
Warehouse	Warehouse used for the picking process. The Warehouse code is indicated in the field. Select the

© 2026 Boyum IT Solutions A/S

Field	Description
	warehouse with the magnifying glass button.
Bin Location	Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.
Batch/Serial Number	The opens the "Batch/Serials: Extended Information" screen. ***See*** different behaviors of this screen in Extended information screen. Note: If mandatory information is missing in the Extended information screen, the Batch/Serial Number field indicates it with a red border in the main screen, even though the field itself is not empty. In case of a serial-managed item, the serial mode is automatic: you can leave the serial field empty, and the quantities are picked automatically by Beas. On how to input a large number of serials ***see*** Massive serial input.

© 2026 Boyum IT Solutions A/S

Field	Description
	IMPORTANT: If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+":  .
Quantity	Picked quantity. the UoM is displayed in italics after the quantity right of the field name.

To **Pick** (reserve) use the button at the top right corner or just go to Lines.
The quantity will be added to the quantity already reserved.

Note: Button **Save** does not exist because with every selection we make reservations directly in the Beas reservation system.

See also: Issue / Reservations screen

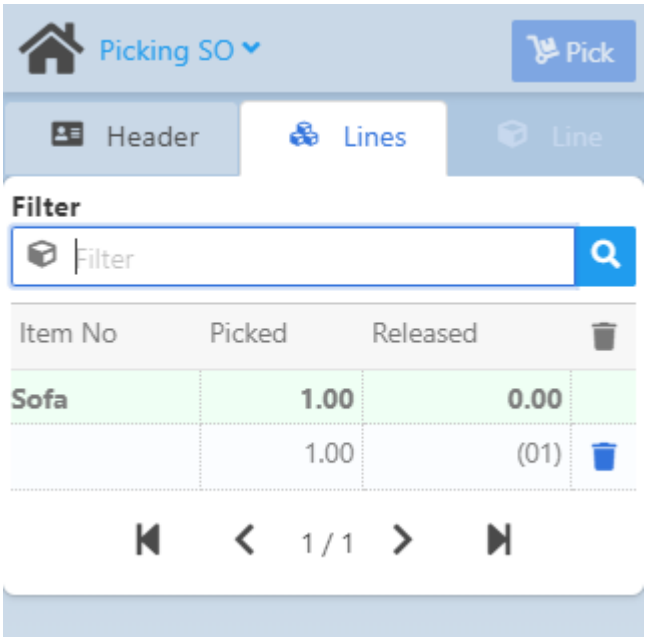
Reservation is possible when:

Using the **Pick** button and all rules are OK.

User goes to Lines or Header and all rules are OK.

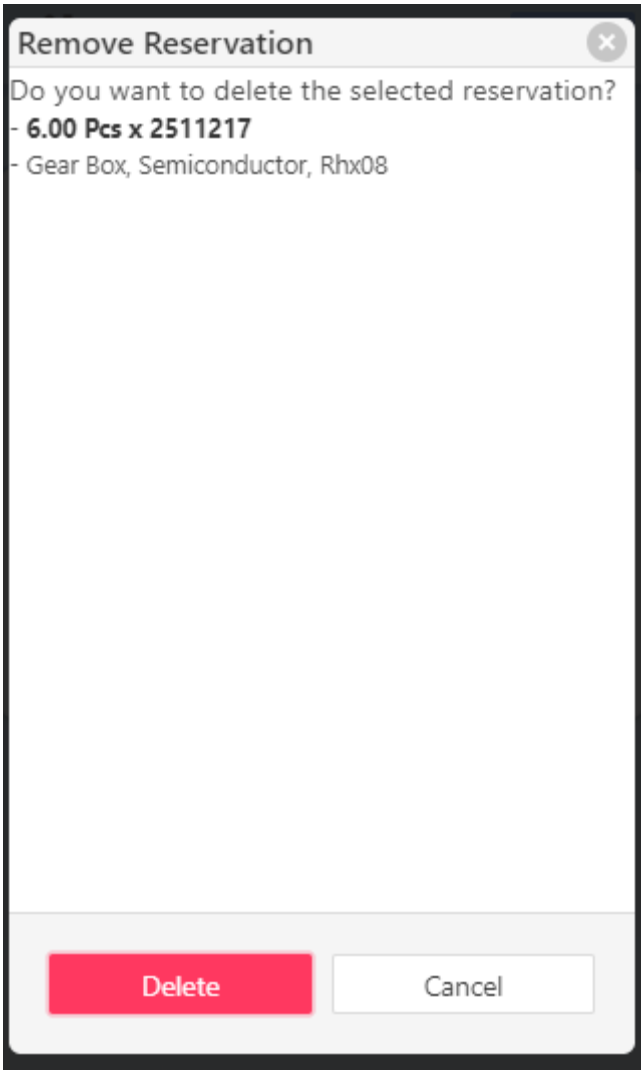
After using the **Pick** button, the Quantity is summed to the current lines, and the screen jumps back to the Lines tab.

When the main line is completed, it changes the color to green:



© 2026 Boyum IT Solutions A/S

Tapping the Trash icon, deletion of the selected reservation is prompted with the following screen:



Settings:

Picking UoM

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

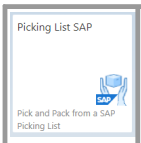
Select the unit of measure for the picking process:

- Inventory: Inventory UoM
- Sales order: The unit of measure of the original sales order

See also extended App Setup.

© 2026 Boyum IT Solutions A/S

17.4.12 Picking List - SAP

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Material Management (Issue, Receipt, Allocation)	Warehouse Support Beas Bin Management	Print Document

With this app you can select a picking list generated from an SAP document, and create a reservation for each selected item in Beas.

Important: Beas only supports picking list documents created from Sales orders!

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

Header tab

After selecting an existing SAP picking list in the" Header tab", the user can start the picking process.

To **Pick** (reserve), use the button at the top right corner or just go to Lines.

The quantity is added to the quantity already reserved.

App settings

Print solution:

Select which document should be printed by the print solution.

Off: no printing

Crystal: Print Inventory or Sales Order

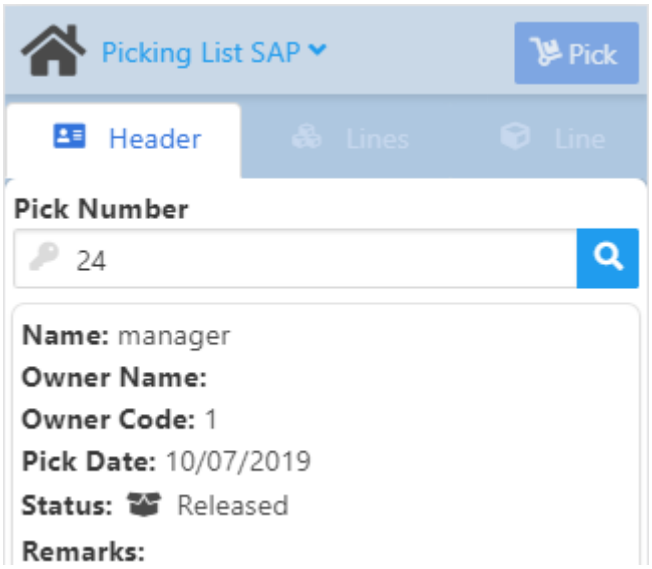
RTF: Print Inventory or Sales Order

Script: Print Inventory or Sales Order

See detailed description of Print types.

> Note: SAP Picking list documents will not be listed when they are in an SAP bin location Warehouse.

© 2026 Boyum IT Solutions A/S



Field Descriptions

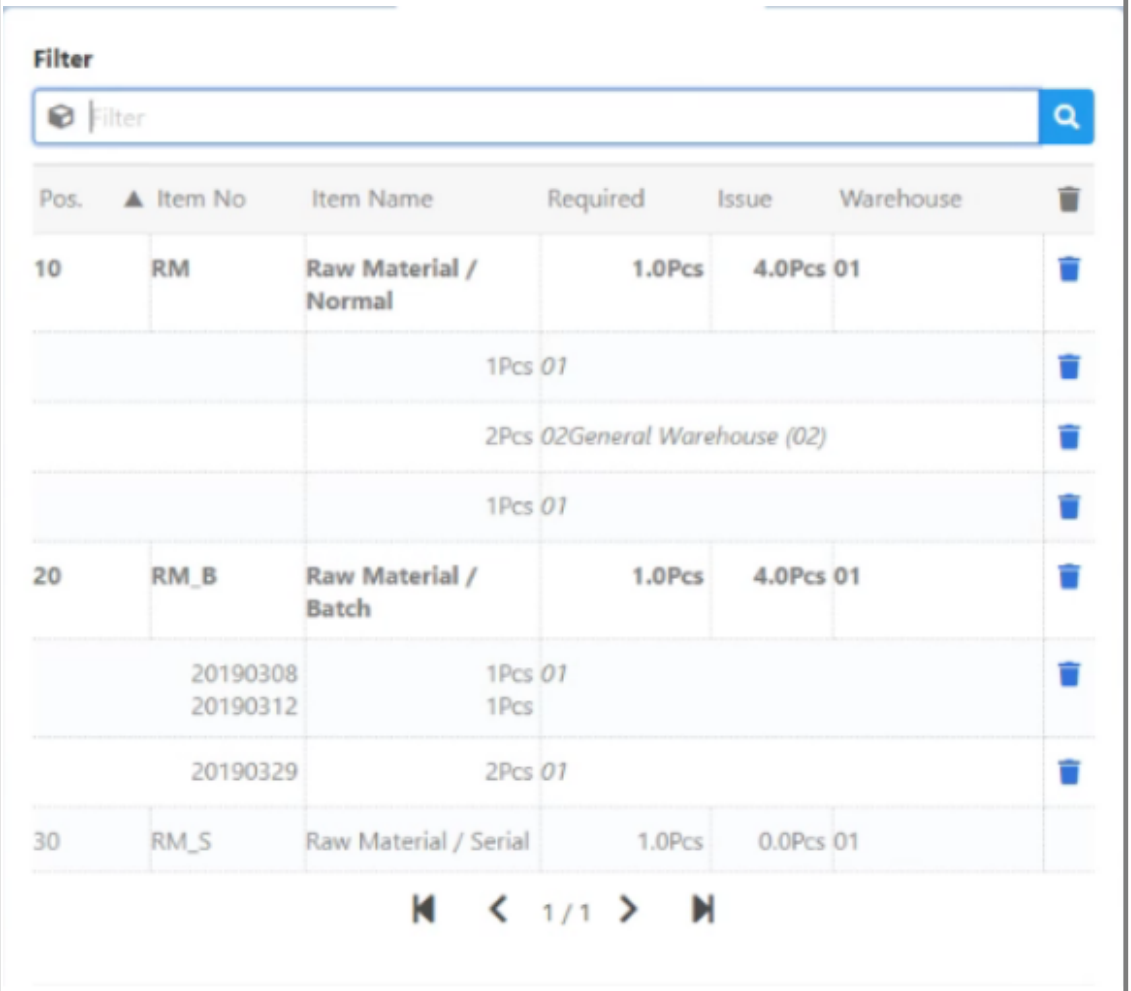
Field	Description
Pick Number	The number of Pick list document in SAP. **Important:** Beas only supports picking list documents created from Sales orders!
Name	Displays the code of the user selected in the Pick list.
Owner Name	The name of the employee who is responsible for picking the order.
Owner Code	Code of Personnel logged into the terminal
Pick Date	The date of picking
Status	Displays the current status of the pick list as follows: • *Released* the pick list is released for picking. You can update the list. • *Partially Picked* certain items have been picked from the pick list. However, an open quantity still exists. You can update the list. • *Picked* all the items have been picked. You can update the list. • *Partially Delivered* certain items have been delivered. You cannot update the lines for the delivered items. • *Closed* the pick list is closed. No additional items are planned to be picked or delivered.
Remarks	Free text.

© 2026 Boyum IT Solutions A/S

Lines tab

In the Lines tab the user can select the items and the reserved quantities from the picking document.

The list is read-only and displayed with 2 types of rows: 1 with the item required and total picked quantity and each of them with secondary lines that show the following details: the picked Bin location / Batch or Serial / and Quantity /delete icon.
After selecting any Main line, the system goes to the Line tab to add a new quantity.



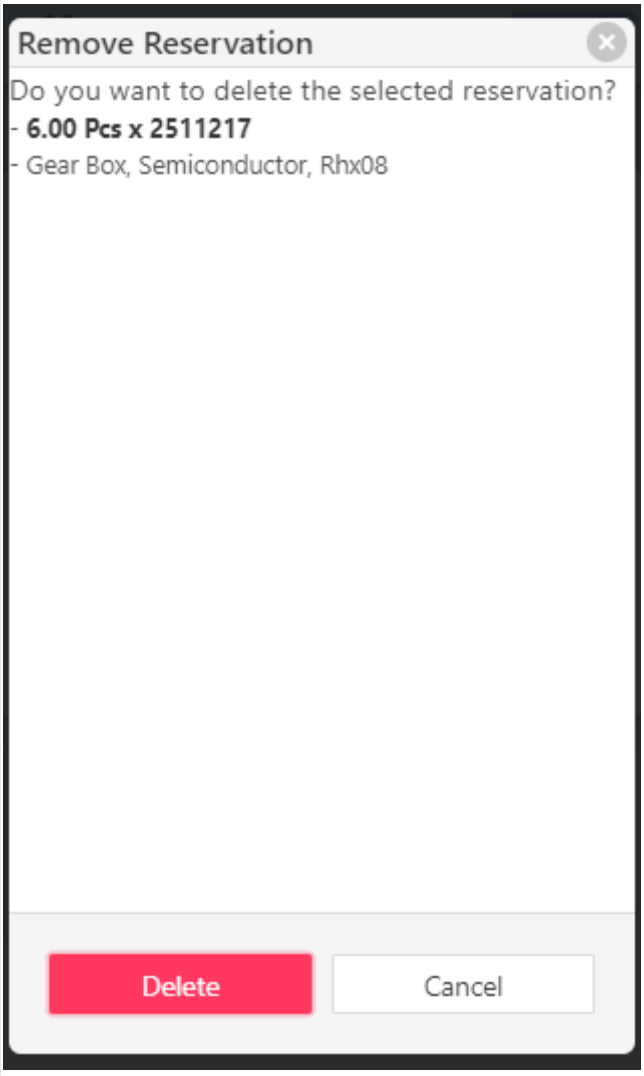
Field Descriptions

Field	Description
Pos.	Position ID

© 2026 Boyum IT Solutions A/S

Field	Description
Item No	Item number
Item Name	(Descriptive) Item name
Required	Required quantity
Issue	Issued quantity
Warehouse	Warehouse code

The delete Icon in the secondary line allows to remove from reservation, with a preview question:



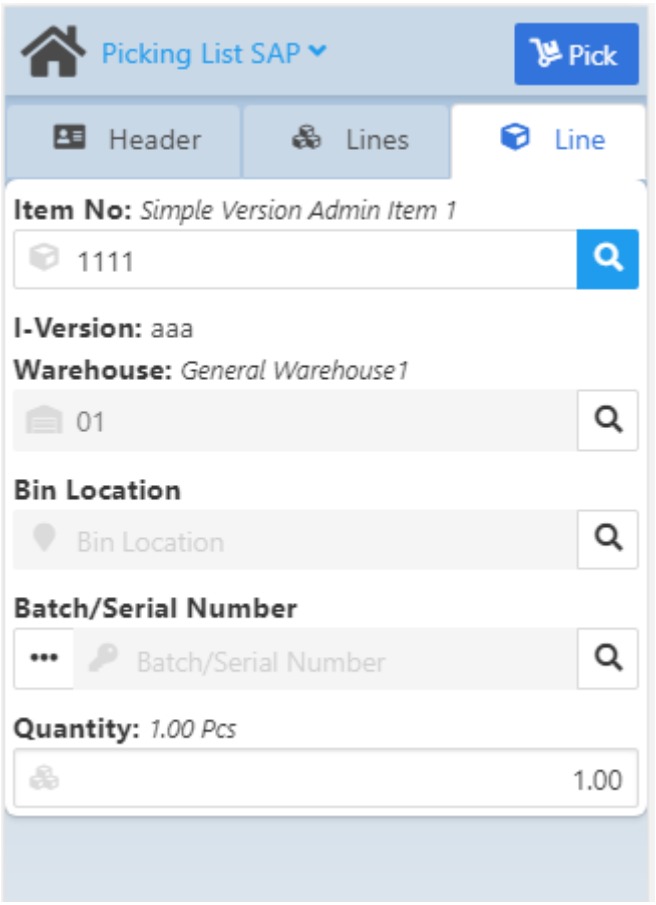
Available Quantity is based on quantity that is not reserved, considering Batches -Serial - Bin Locations.

© 2026 Boyum IT Solutions A/S

Reservation is possible when:
User uses the pick button and all rules are OK.
User goes to Lines or Header and all rules are OK.

Line tab

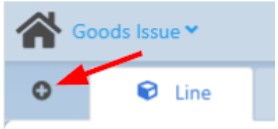
In this tab you can add the quantity to be picked.



Field Descriptions

Field	Description
Item No.	Item number. Select an item from the filter screen that opens with the magnifying glass button.
I-Version	Item version - field displays information in case of version-managed items.

© 2026 Boyum IT Solutions A/S

Field	Description
Warehouse	Warehouse used for the picking process. The Warehouse code is indicated in the field. Select the warehouse with the magnifying glass button.
Bin Location	Select Bin location of the warehouse **Limitation**: SAP Bin Warehouses are not supported. Because SAP is working with SAP Bin warehouses in a different method, by creating additional data in additional SAP tables, and it is mandatory to select batches and serials indicated in the picking list, SAP bin warehouses are not compatible with this application. Note: Alternatively, you can use the Picking SO app, where we allow picking from any BIN (Beas and SAP).
Batch/Serial Number	The opens the "Batch/Serials: Extended Information" screen. Details: ***See*** different behaviors of this screen in Extended information screen. Note: If mandatory information is missing in the Extended information screen, the Batch/Serial Number field indicates it with a red border in the main screen, even though the field itself is not empty. In case of a serial-managed item, the serial mode is automatic: you can leave the serial field empty, and the quantities are picked automatically by Beas. On how to input a large number of serials ***see*** Massive serial input. **IMPORTANT:** If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+":  .

© 2026 Boyum IT Solutions A/S

Field	Description
Quantity	Picked quantity. the UoM is displayed in italics after the quantity right of the field name.

Settings:

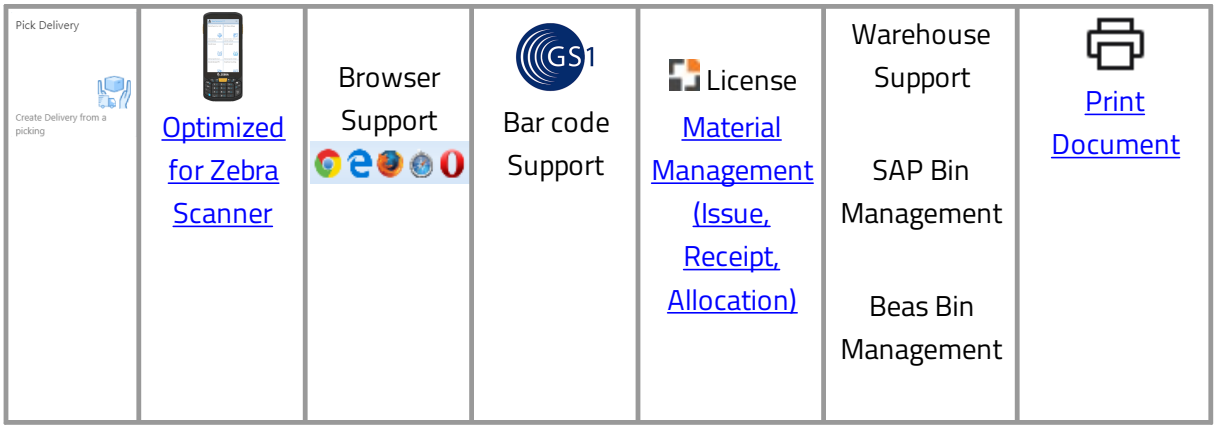
Picking UoM

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

Select the unit of measure for the picking process:
- Inventory: Inventory UoM
- Sales order: The unit of measure of the original sales order

See also extended App Setup.

17.4.13 Pick Delivery



With this app the user can create a Delivery Document from the reserved quantity on a sales order or a Picking list.

Note: Button **Save** does not exist because with every selection we make reservations directly in the Beas reservation system.

See also: Issue / Reservations screen

See basic WebApp controls in General Information on WEB APPS Version 2.1.

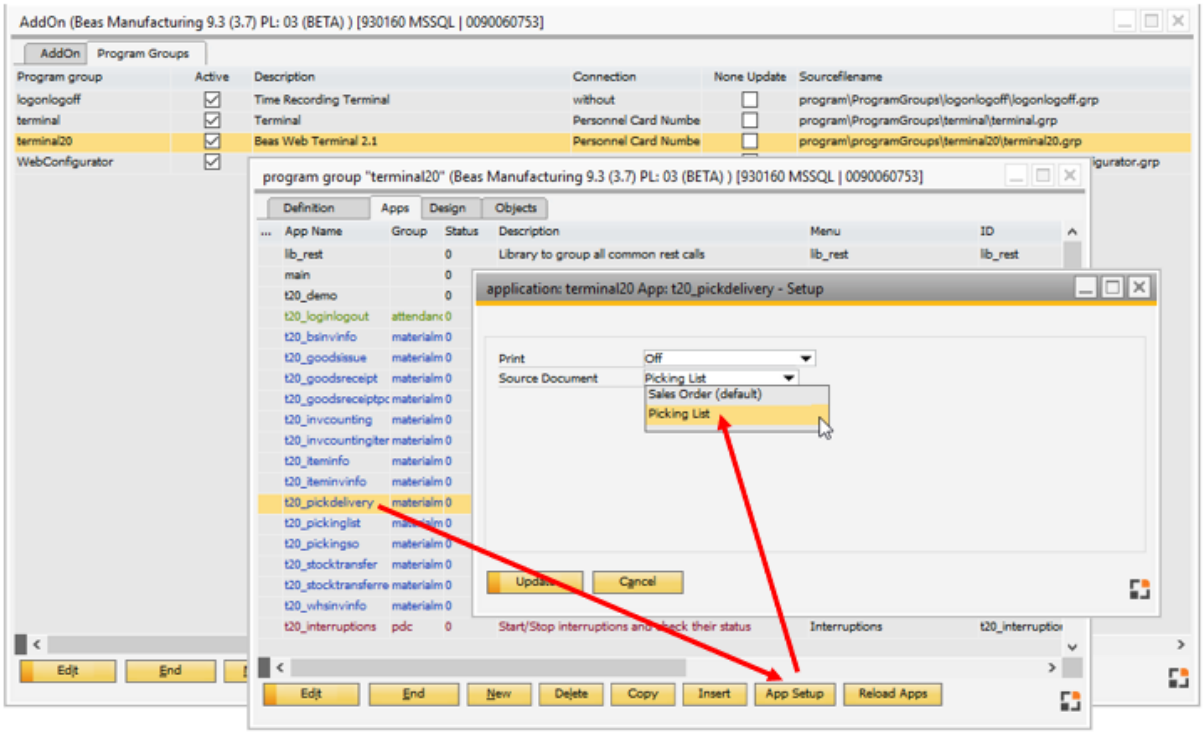
See Configuration wizard settings of the Web Terminal.

Important: Prior to using this app, the user must decide whether to use Picking List SAP or Sales order as the Source document for delivery.

You can perform the setting as follows:

© 2026 Boyum IT Solutions A/S

1. Go to: **Administration > Add-Ons > Add-on-Manager (beas)**
2. "Edit" terminal20
3. Select the "Apps" tab
4. Click "App Setup" for `t20_pickdelivery`
5. Select Picking List or Sales Order from the "Source Document" drop-down field.



Window webwindow_user_setup.psr

App settings

Print solution:

Select which document should be printed by the print solution.

Off: no printing

Crystal: Print Sales Order (default), Picking list

RTF: Print Sales Order (default), Picking list

Script: Print Sales Order (default), Picking list

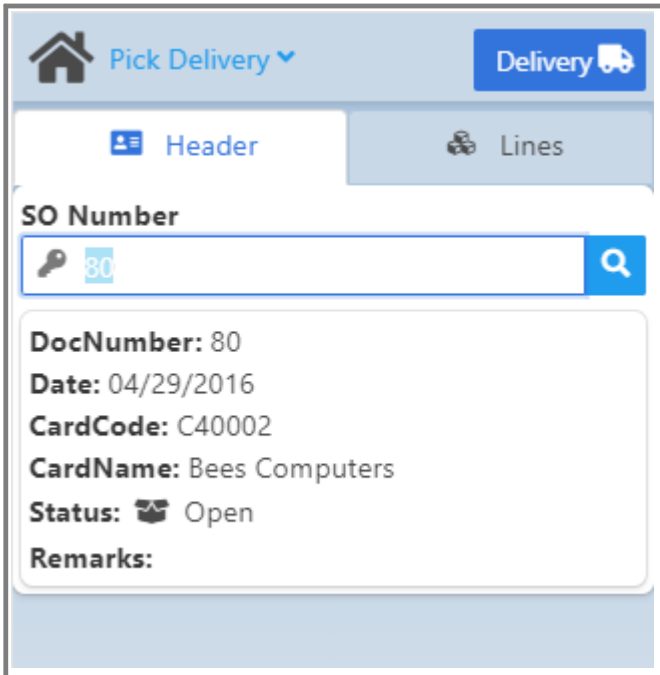
See detailed description of Print types.

Header tab

In this tab you can identify the Sales Order or Picking list.

As the above setting allows to work with this app based on sales order or picking list, only one at a time is possible.

© 2026 Boyum IT Solutions A/S



Field Descriptions

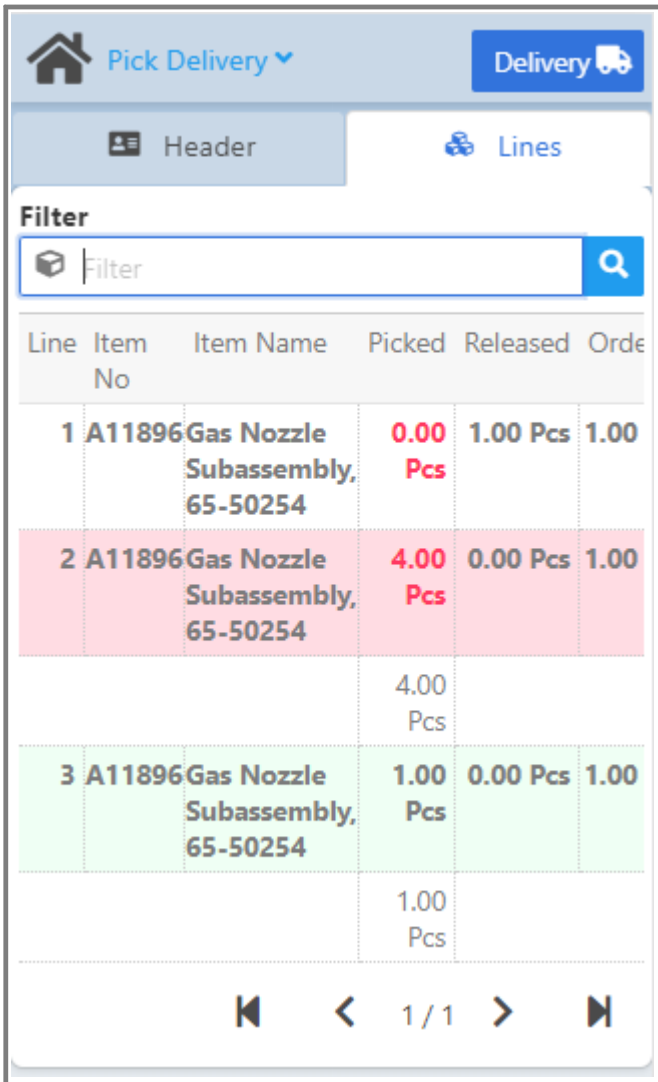
Field	Description
SO Number	Filter field for Sales orders
DocNumber	The number of the Sales order document in SAP
Date	Displays the creation date of the Sales order document
CardCode	Customer code
CardName	Customer name
Status	Only "Open" status lists are displayed
Remarks	Free text.

Lines tab

This tab displays a List of items (Read only).

The Items reserved from the original document are just shown as information.

© 2026 Boyum IT Solutions A/S



Limitation:

WMS picking process does not support Beas I-Version control.

Field Descriptions

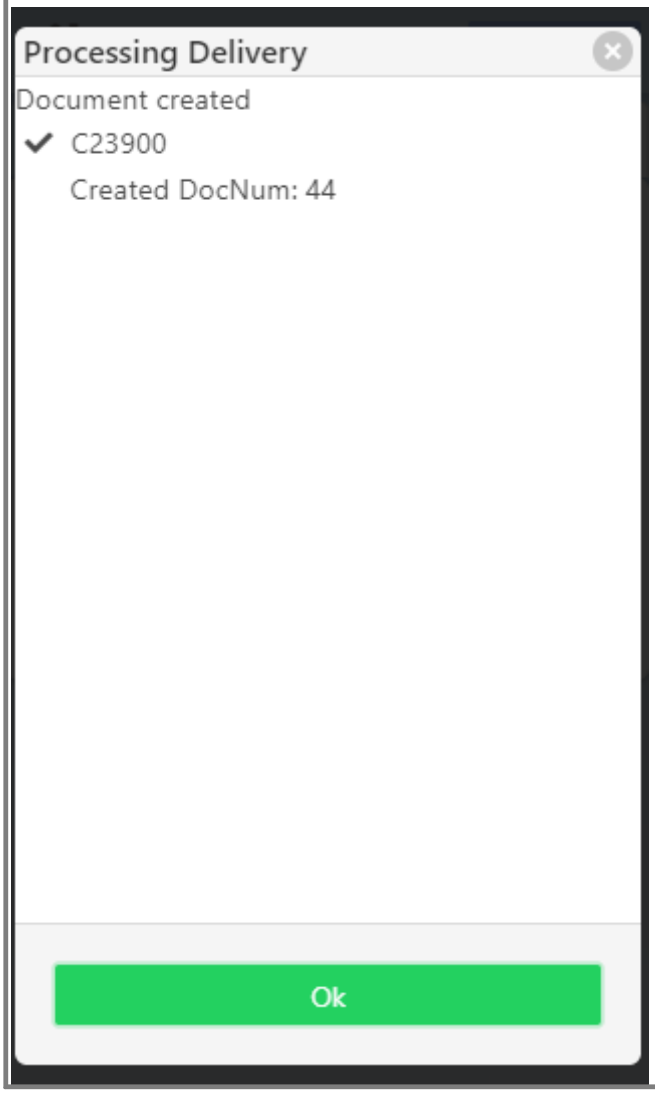
Field	Description
Line	Line number in the delivery document
Item No	Item number
Item Name	(Descriptive) Item name
Picked	Picked quantity
Released	Released quantity
Ordered	Ordered quantity

© 2026 Boyum IT Solutions A/S

Field	Description
WhsCode	Warehouse code

Note: Function `of_transfer` is not ready to generate documents based on an existing SAP base document for the same item and warehouse in different bin locations as each bin location takes lines in the Pick Delivery app.
The reason is that SAP does not allow more than one (summing) line for the item in the delivery note. A solution to this limitation is under planning.

Delivery button (top right): When the user taps this button, the system generates the delivery document with all reserved lines.
Once the document is created, the system displays a confirmation message on document creation or an error message.



© 2026 Boyum IT Solutions A/S

Settings:

Source document

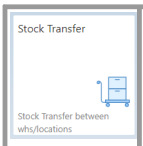
PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

Select the source document for the app:

- Sales order (default)
- Picking List

See also extended App Setup.

17.4.14 Stock Transfer



Optimized for Zebra Scanner

Browser Support

Bar code Support

License Material Management (Issue, Receipt, Allocation)

Warehouse Support
SAP Bin Management
Beas Bin Management

Print Document

Support Asynchronous working

With this Web App it is possible to move stock from one warehouse to another.

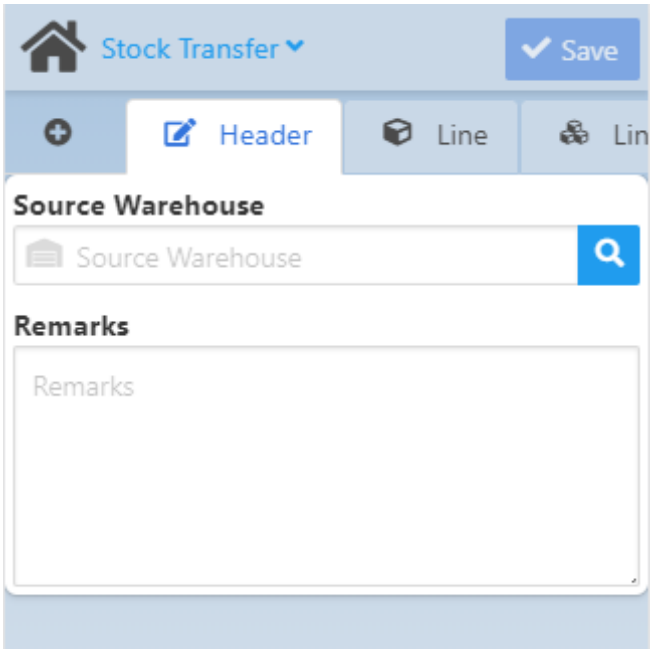
The app has 3 tabs: Header, Line and Lines. ***See*** basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

Header tab

In the Header you can select the Source Warehouse:

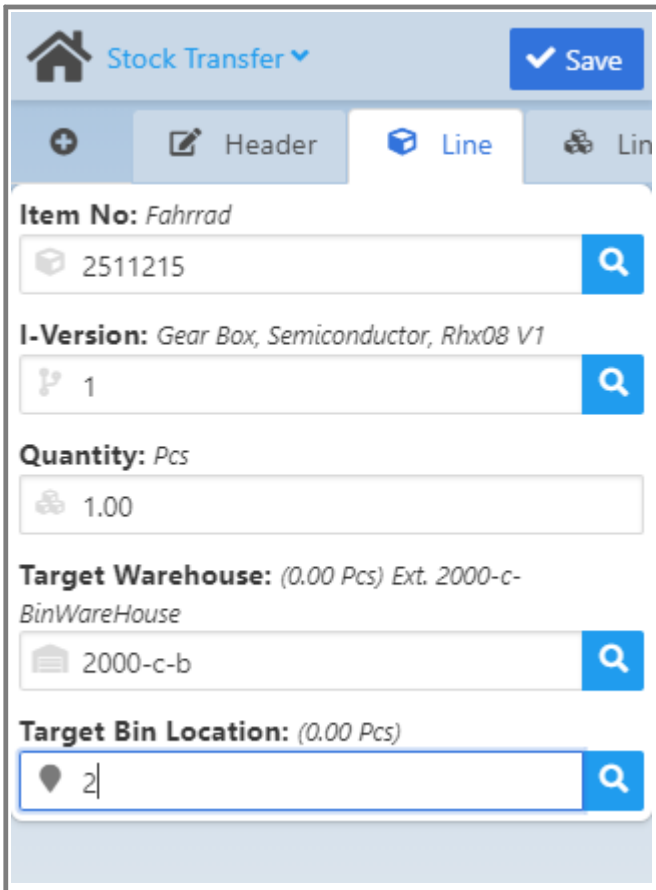
© 2026 Boyum IT Solutions A/S



Once the Source Warehouse is selected, it remains locked for the upcoming items in the document.

Line tab

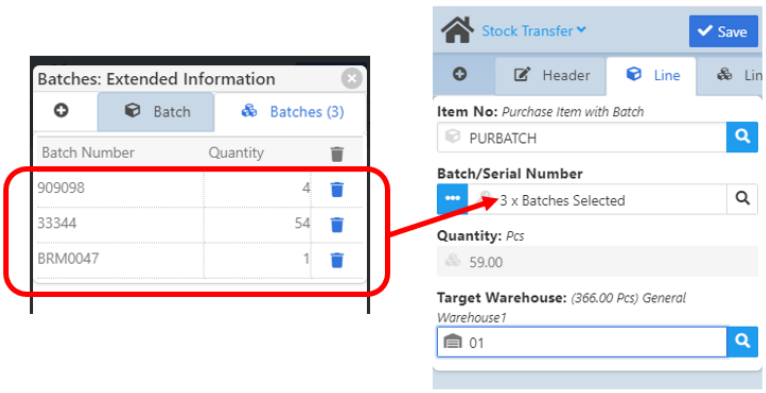
© 2026 Boyum IT Solutions A/S



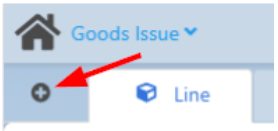
Field Descriptions

Field	Description
Item No	Select the item number of the item to be transferred to another warehouse. This field supports GS1-128 bar code scanning.
I-Version	Visible and editable only if the selected item has (an)other version(s) in the Master data.
Bin Location	Displays the name of the bin location where the item is found. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.

© 2026 Boyum IT Solutions A/S

Field	Description
	Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.
Batch/Serial Number	Active only for batch/serial-managed items. Select the exact batch(es)/Serial(s) to transfer. The ••• opens the "Batch/Serials: Extended Information" screen. It is possible to create a stock transfer document for a number of batches/serials of the same item with the plus icon. Note: If mandatory information is missing in the Extended information screen, the Batch/Serial Number field will indicate it with a red border in the main screen, even though the field itself is not empty.  In this application you can edit Batch/Serial number, Version and Quantity fields. For more information on available fields and screen modes ***see*** Extended information screen: details

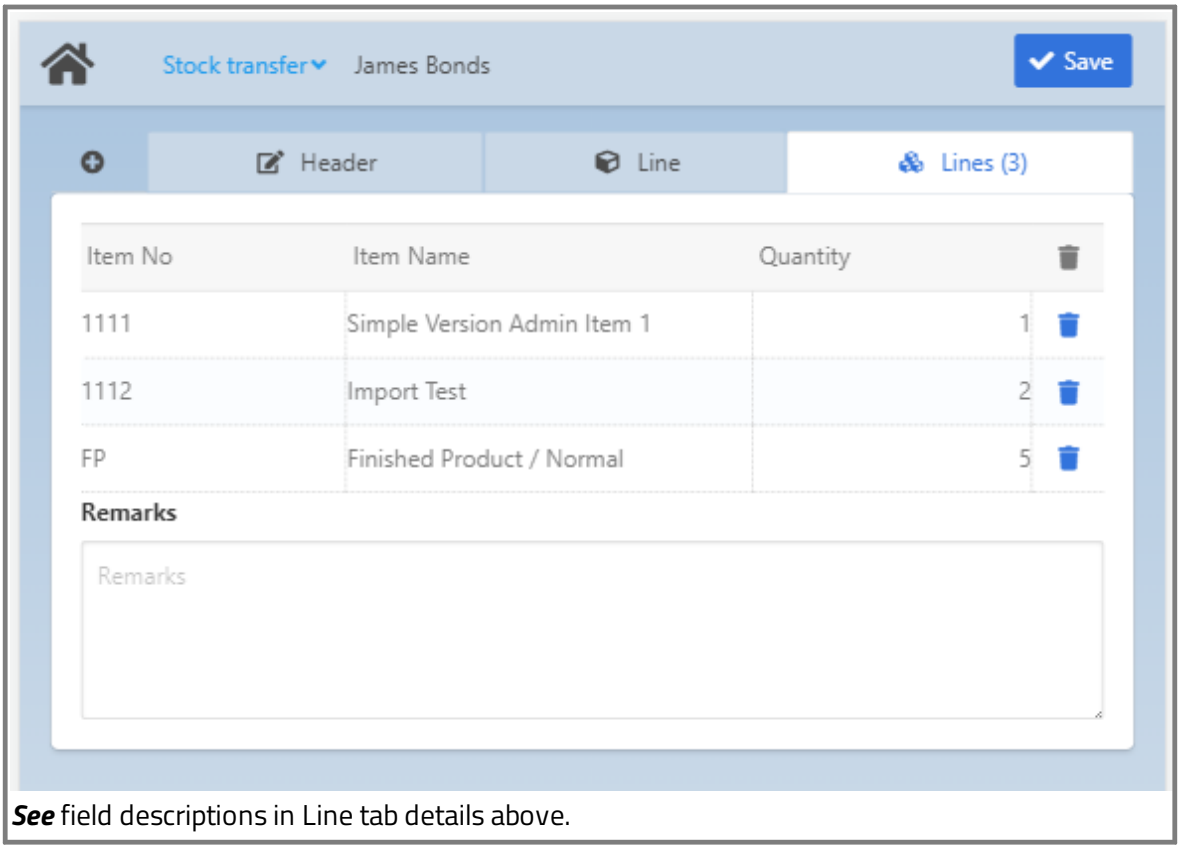
© 2026 Boyum IT Solutions A/S

Field	Description
	WMS integration: Tap the magnifying glass or to filter by LUID. ***See*** further, up-to-date information on WMS-BEAS integration. **Limitation:** All selected serials in a line must be from the same warehouse/bin location. If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+":  .
Quantity	Enter the number of items to be transferred to another warehouse. Note: it is not possible to transfer work order related, reserved materials.
Target Warehouse	Select the target warehouse for the stock transfer. The items saved in this document will be transferred to this warehouse.
Target Bin Location	Active when selecting a bin warehouse first. Select a bin location for the transferred stock.

Lines tab

Add more lines to the Stock transfer document with the button on the top left.

© 2026 Boyum IT Solutions A/S

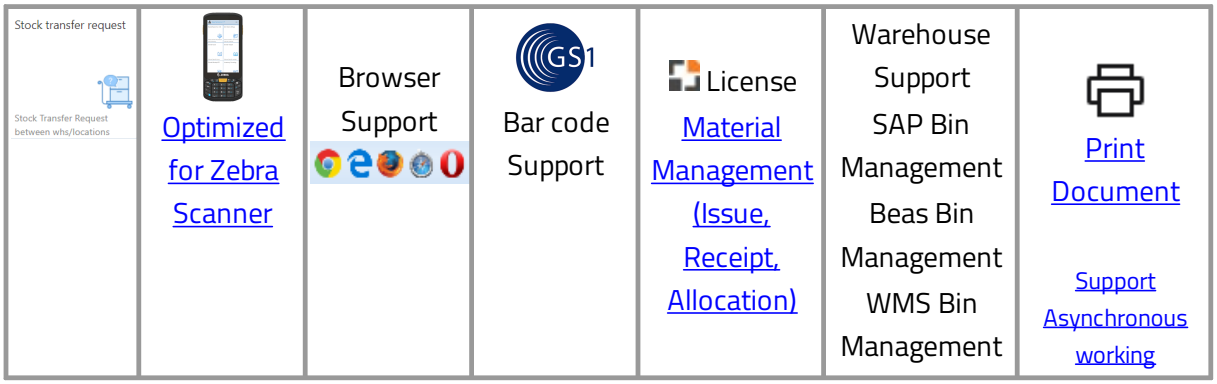


See field descriptions in Line tab details above.

- Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

17.4.15 Stock Transfer Request



With this WebApp you can save a stock transfer request in the system.

The app has 3 tabs: Header, Line and Lines. ***See*** basic WebApp controls in General Information on WEB APPS Version 2.1.

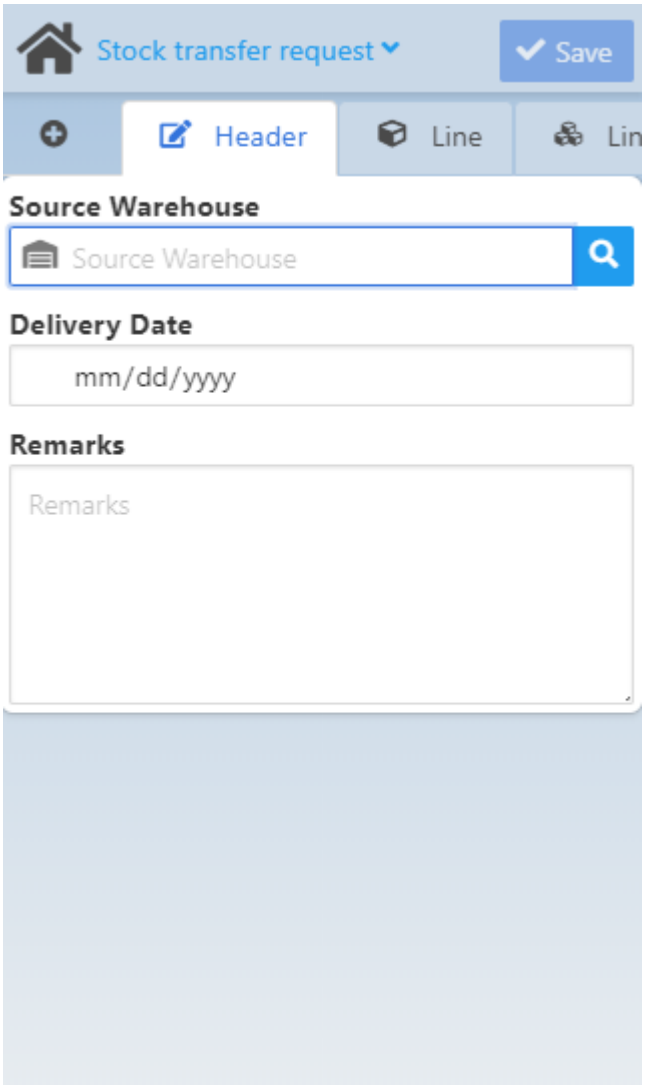
See Configuration wizard settings of the Web Terminal.

© 2026 Boyum IT Solutions A/S

Header tab

In the "Header" you can select the source warehouse, provide the delivery date and add your remarks to the requested transaction.

Note: Bin Location fields are not required for this app and are not available in the screen.



Field Descriptions

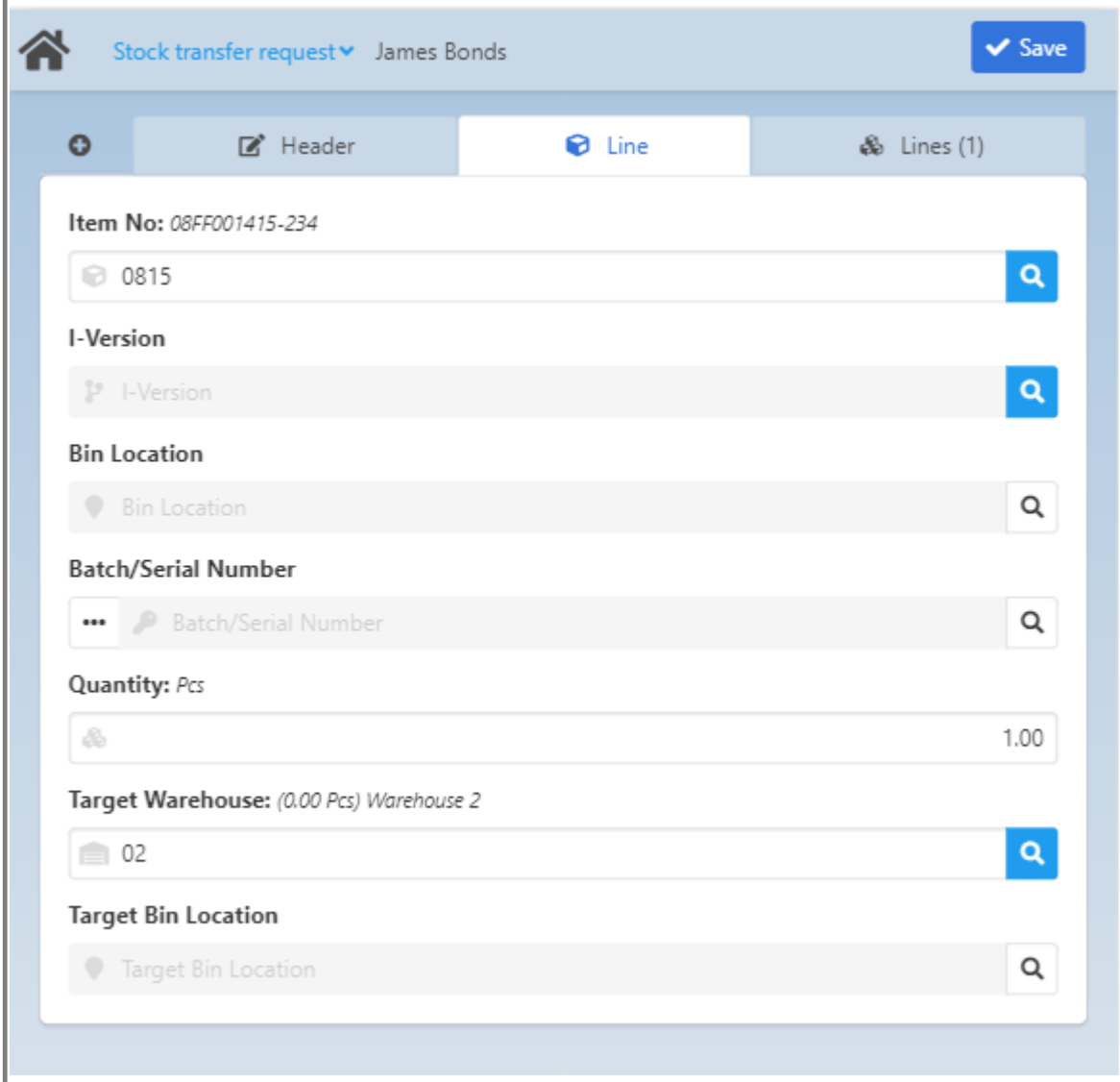
Field	Description
Source Warehouse	Select the warehouse from which you intend to transfer stock.
Delivery Date	Provide delivery date in mm/dd/yyyy format.
Remarks	Free text.

© 2026 Boyum IT Solutions A/S

- Line tab

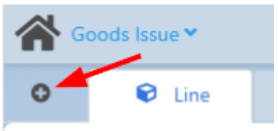
After entering the mandatory information in the "Header" tab, the "Line" tab becomes editable. Here you can provide Item-specific information. Upon selection, the exact "Item name" and "Target Warehouse" name is indicated right of the field names (***see*** image below). In case of the "Target Warehouse", the currently available number of the item in its unit of measure is also indicated (***see*** image below).

You may add more lines to the document with the button on the left.



Field Descriptions

© 2026 Boyum IT Solutions A/S

Field	Description
Item No	Item number. Select an item from the filter screen that opens with the magnifying glass button. This field supports GS1-128 bar code scanning.
I-Version	Item version - field displays information in case of version-managed items.
Bin Location	Source Warehouse bin location where the item is stored.
Batch/Serial Number	The magnifying glass opens the Batch/Serial search screen where you can perform further filtering for the name of the batch/serial. The screen shows the names and bin locations of the available batches/serials. The opens the "Batch/Serials: Extended Information" screen. In this application you can edit Batch/Serial number, Version and Quantity fields. ***See*** other, non-editable attributes in Extended information screen. **WMS integration:** Tap the magnifying glass or to filter by LUID. ***See*** further, up-to-date information on WMS-BEAS integration. **Limitation:** All selected serials in a line must be from the same warehouse/bin location. If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+":  .
Quantity	Item Quantity to be transferred. With this app it is possible to create transfer request for reserved material (linked to a work order).
Target Warehouse	Select a target warehouse to for the stock transfer.
Target Bin Location	Select a target bin location (if it exists) for the stock transfer.

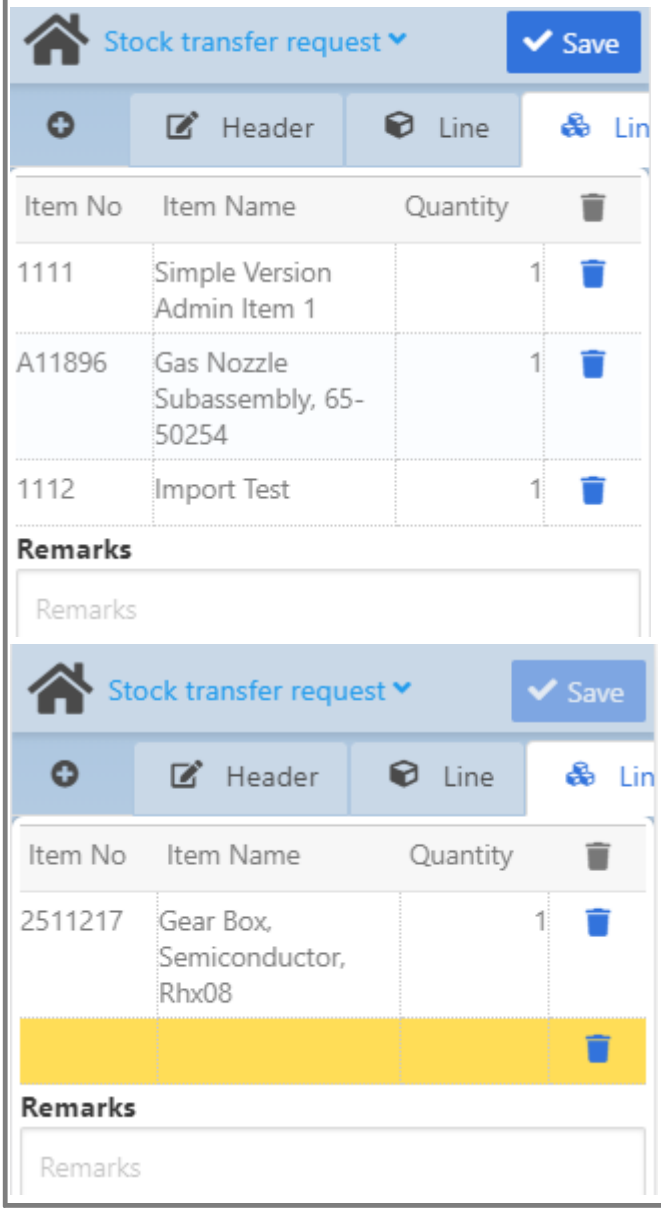
- Lines tab

After adding a line to the transfer request document, it appears in a list view in the "Lines" tab. Incomplete information of a line is indicated with yellow highlighting in this tab (***see*** right image

© 2026 Boyum IT Solutions A/S

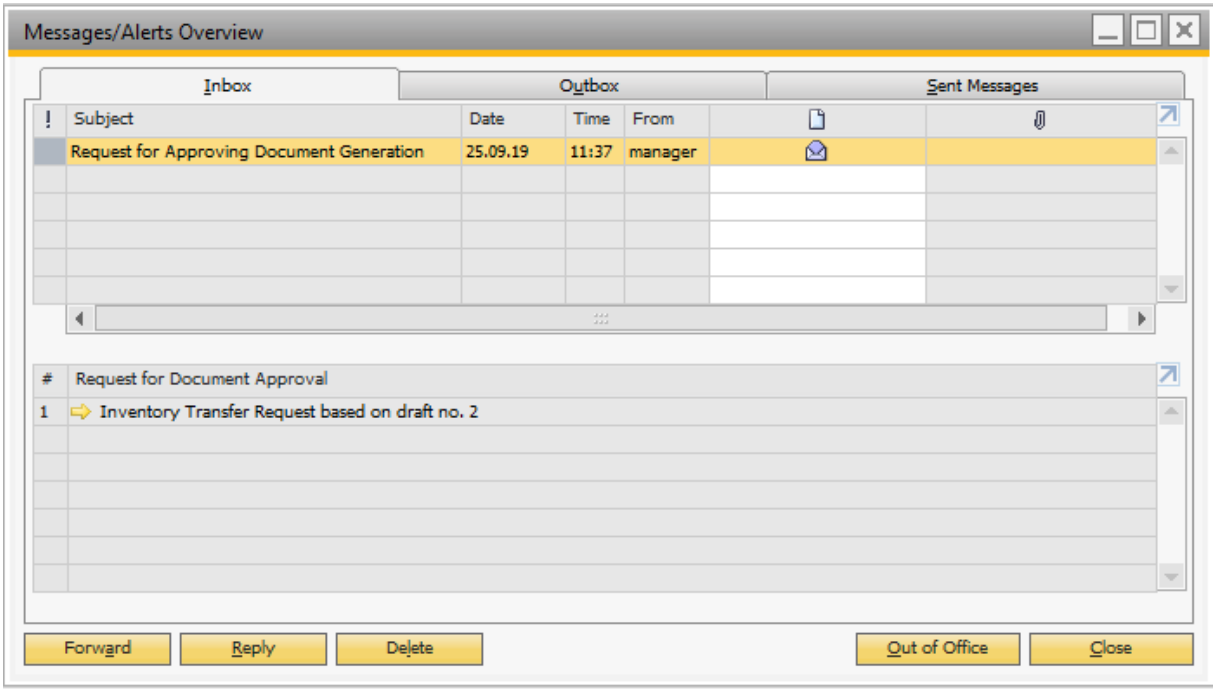
below).

The list view contains Item number, Item Name and Quantity.



Once you have saved the document, you receive notification of the transfer request in the system:

© 2026 Boyum IT Solutions A/S



Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

17.4.16 Warehouse Stock

	Optimized for Zebra Scanner	Browser Support	GS1 Bar code Support	License Material Management (Issue, Receipt, Allocation)	Warehouse Support SAP Bin Management Beas Bin Management WMS Bin Management

With this app it is possible to get physical Warehouse information together with detailed Inventory within the selected warehouse.

The app consists of two tabs: Warehouse tab and Inventory tab.

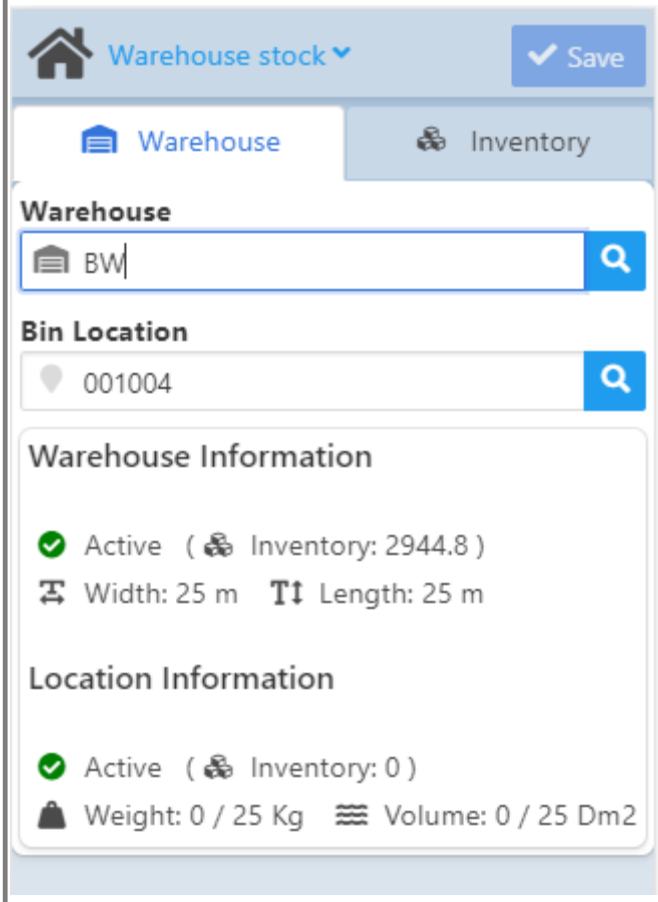
See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

© 2026 Boyum IT Solutions A/S

Warehouse tab

After selecting a warehouse, the app displays the following information:



Field Descriptions

Field / displayed information	Description
Warehouse	Tapping on the magnifying glass opens the Warehouse search screen displaying a list of warehouses with WhsCode and WhsName. Upon selection, the warehouse code is indicated in the field.
Bin Location	Tapping on the magnifying glass opens the Location search screen with filtering option. The indicated information are Location codes with Description and available stock.
Warehouse Information	Displays status, inventory count and physical dimensions of the selected Warehouse.

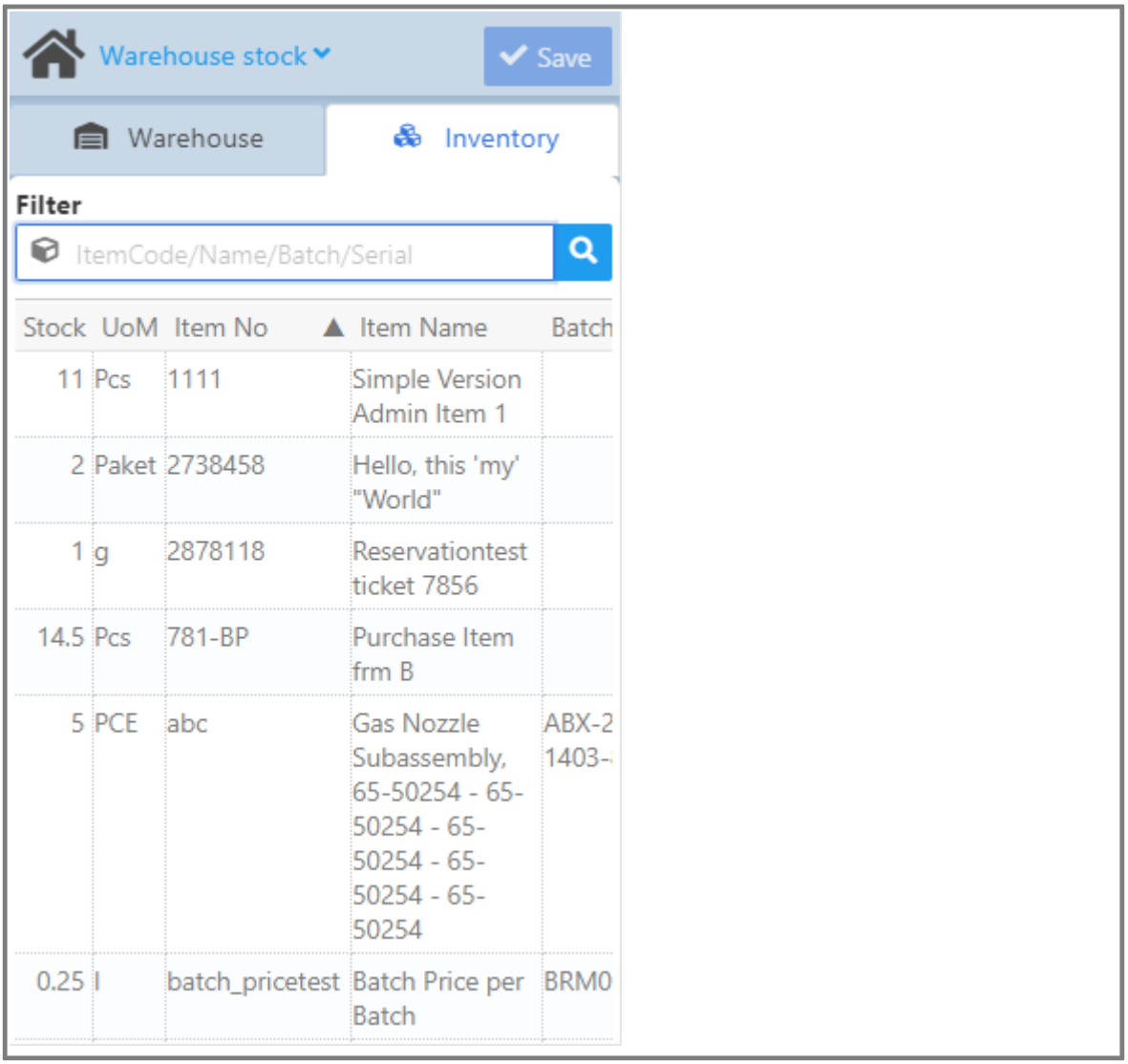
© 2026 Boyum IT Solutions A/S

Field / displayed information	Description
Location Information	When selecting a Bin Location, the "Location Information" section also appears under the Warehouse Information
Active / Inactive	Shows if warehouse/bin locations are active Active (having inventory, used in orders) or inactive Inactive.
Inventory: XX	the Warehouse/Location information section shows the available stock in the selected warehouse / bin location
Width	The width dimension of the warehouse provided in meters.
Length	The length dimension of the warehouse provided in meters.
Weight/Volume xx / yy	The currently used weight/volume on shelf against the total weight/volume for the shelf. In the example above, the current weight/volume is 0. In case of SAP bin locations, the system always displays zero (0). In the image above total weight on shelf is 25kg and total volume is 25dm^2

Inventory tab

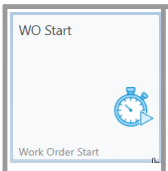
The Inventory tab displays stock information for the selected Warehouse. It is possible to filter inventory by Item Number, Item Name and Batch/Serial number.
The displayed inventory information then provides details on Stock (quantity), unit of measure, Item Number, the descriptive Item Name and Batch/Serial number:

© 2026 Boyum IT Solutions A/S



Stock	UoM	Item No	Item Name	Batch
11	Pcs	1111	Simple Version Admin Item 1	
2	Paket	2738458	Hello, this 'my' "World"	
1	g	2878118	Reservationtest ticket 7856	
14.5	Pcs	781-BP	Purchase Item frm B	
5	PCE	abc	Gas Nozzle Subassembly, 65-50254 - 65-50254 - 65-50254 - 65-50254	ABX-2 1403-
0.25	l	batch_pricetest	Batch Price per Batch	BRM0

17.4.17 WO Start

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Production Data Collection	

This app makes it possible to start / login to a Work Order operation. The application consists of two tabs.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

© 2026 Boyum IT Solutions A/S

IMPORTANT: The "Exceeding planned quantity allowed" production configuration setting affects the WO Start app. ***See*** Configuration setting.

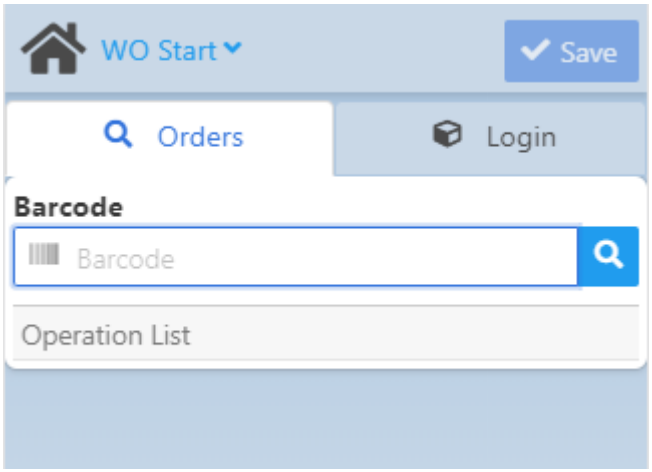
The app is affected by the "Work order must be set to planned" setting. If you change this setting, you must restart the Web service.

NOTE: Parallel operations do not consider quantities and do not manage Open/Close status!. Time receipt creation does not close a parallel operation.

ATTENTION: The setting "Order times Enter" setting of "Operation types" affects the what operations are displayed in the "orders" list.

Orders tab

In this first tab you can provide the bar code of the WO position (operation) to login. It is possible to scan the bar code of the WO position, or, alternatively, you can use the "Barcode" filter field to find the work order.



Tapping on the magnifying glass icon opens the list of work order positions – ***see*** "Operation list" in the image below. Here you can select the operation you wish to start.

Logon mask icons

Icon	Description
(red)	In WO Start: A user (current or other) has already logged in to/ started the operation. In Pool Report: Current user is logged into the operation.
(gray)	No user has logged in to the operation yet.

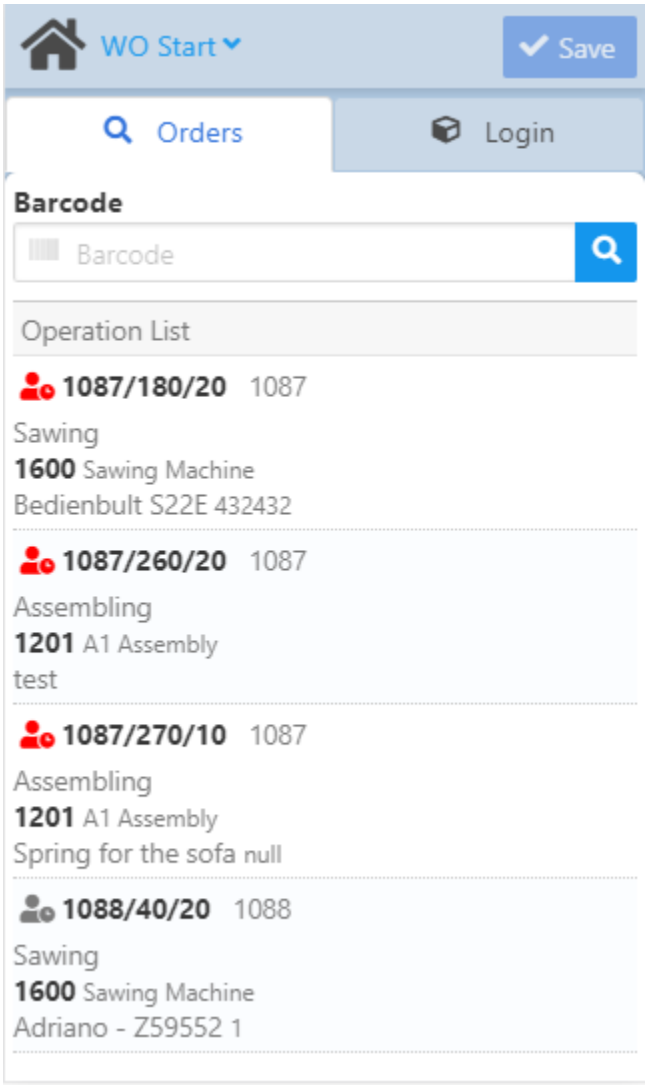
© 2026 Boyum IT Solutions A/S

Icon	Description
(orange)	Available in WebApp Pool Report. Another user has logged into the operation.
	Open: resource is available
	Locked: If used for other running activity and Resource Option "Single operator per operation sequence" is active.
	Available in WebApp Pool Report. Red: Not enough material to complete the work order. Gray: Material is enough to complete the work order. Note: The system displays this only if it is activated in the configuration.
	Interruption is active.

The Operation List gives detailed information on the work orders. WO positions are represented in separate lines which contain all relevant WO-specific information: WO number, WO position, Operation type, Resource, item name, I-Version.
The resources for the user can be selected and set up in Personnel administration > FDC settings.

Example: The first operation in the list in the image below is WO position "1087/180/20" of work order number 1087: it is a "Sawing operation" done with resource "1600 Sawing Machine" for the finished product "Bedienbult S22E 432432".

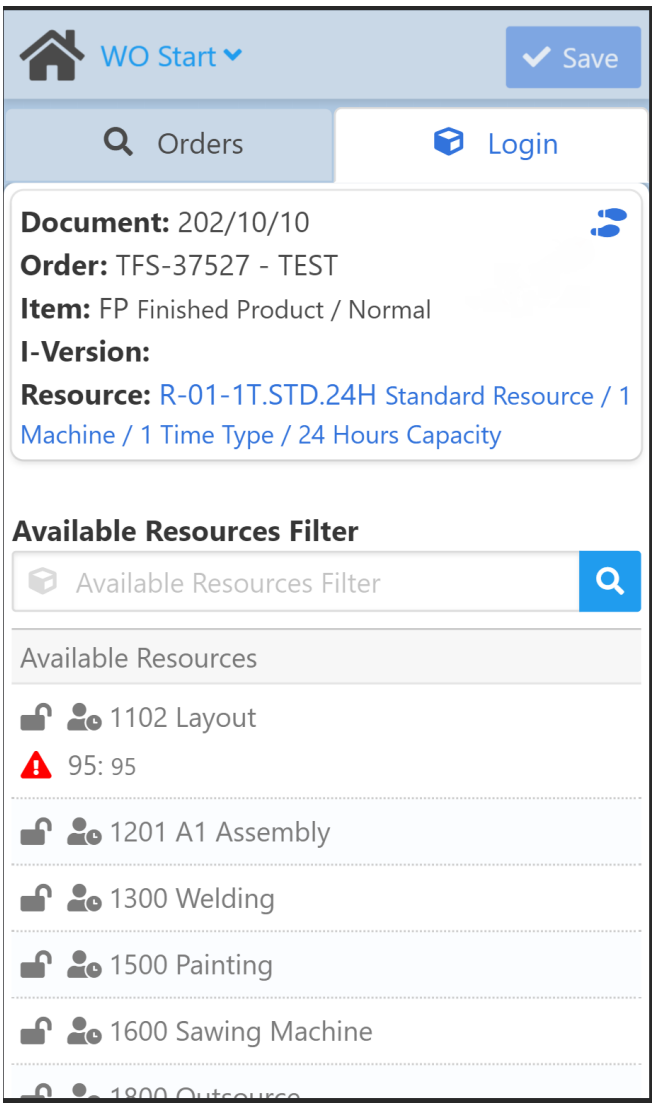
© 2026 Boyum IT Solutions A/S



Login tab

The Header section shows the same WO-specific information as in the Operation List. Scanning the bar code of a work order position will take you to the Login tab automatically.
Once selecting an operation from the list, the app switches to the Login tab which provides filtering for available resources.

© 2026 Boyum IT Solutions A/S



Tap the footprint symbol, and the instructions will appear in another dialog box.

Time Types

By selecting the resource for the operation, the app opens the "Select time type" screen. You can select the resource from the "Available Resources" list or by tapping on the actual resource in the Header.

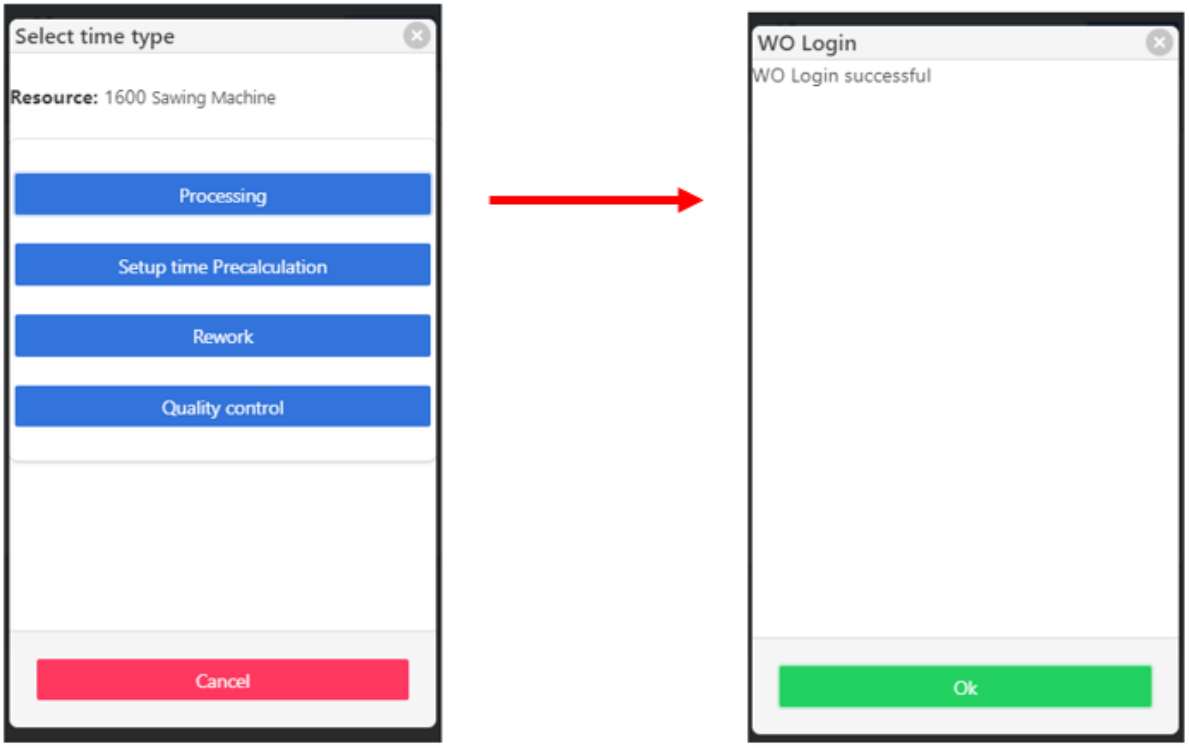
Note: You can only select resources that were previously selected for the user in **Personnel Administration > Master Data > FDC > "Resource" + "Resource selectable**".

The screen displays the name of the resource and the following 4 time types:
Processing, Setup time Precalculation, Rework, Quality control.

© 2026 Boyum IT Solutions A/S

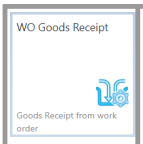
Note: The number of Time Types options depends on how many cost elements are set for the resource in the **Resource Master Data > Cost tab > "Expand to cost elements"**.

This concludes the Login process.



After selecting the time type, the WO Login is performed and the login information is displayed in the Work order list in SAP B1, as well:

17.4.18 WO Goods Receipt

		Browser Support	Bar code Support	License Material Management	Warehouse Support SAP Bin Management	Print Document

© 2026 Boyum IT Solutions A/S

	Optimized for Zebra Scanner			(Issue, Receipt, Allocation)	Beas Bin Management WMS Bin Management	Support Asynchronous working

With this app you can create receipts on a Work order Position – Assembly and all BoM Positions with 0 or negative quantity.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

Multiline is supported for serial numbers, but not for Batches. It is not possible to choose a different target warehouse for one position.

See also Massive input of serial numbers.

> Note: This is a receipt function without cancellation and automatic backflushing options.

WMS Integration:

Beas Manufacturing WebApps support WMS Batch Attributes.

After inserting a Batch Number, the system checks the mandatory attributes. If such attribute is saved for the batch, the field frame turns red, indicating the missing of mandatory information.

All field types (String, Date, List, Numbers) are supported.

See Batch Extended Information srceen.

WebApp support:

WO Goods Receipt

WO Backflushing

WO Stop

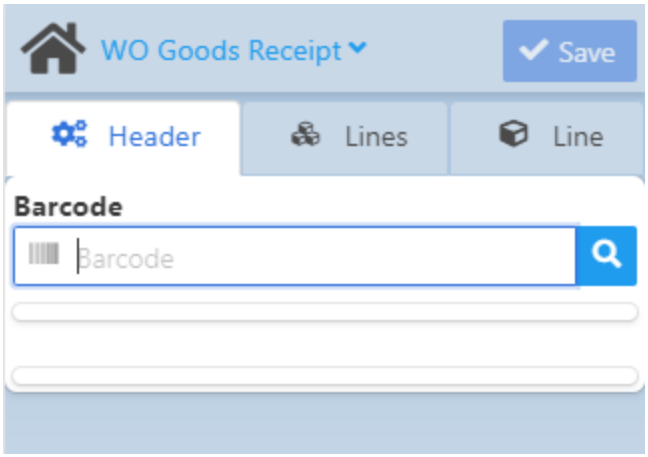
Wo Time Receipt

Goods Receipt

Header tab

In the "Barcode" field you can enter the bar code manually or scan a WO Position bar code.

© 2026 Boyum IT Solutions A/S



See field descriptions.

In work order the system defines a bar code for

- Work order position
- Bill of Materials position
- Routing position

You can display every Bar code in the work order document (by customizing with Crystal report)

© 2026 Boyum IT Solutions A/S

In all Work order apps you can choose the work order / work order position with all 3 bar code types.

Scanner can be used for:

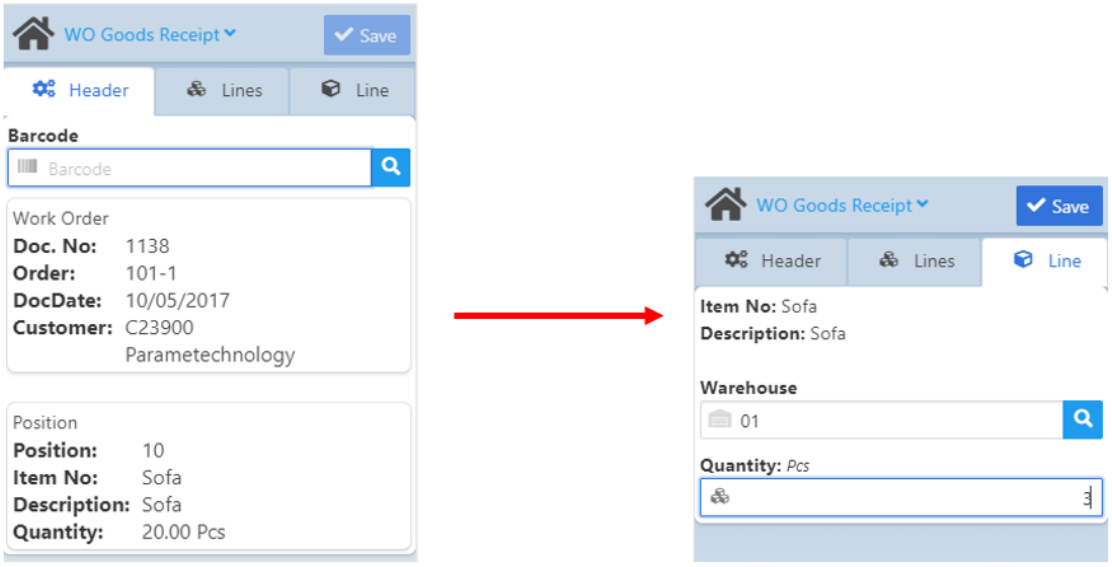
Bar code	App behavior
BoM position	Only BoM bar codes are allowed if the first scanning was a BoM bar code. The app displays the scanned line only.
Routing position	When scanning a Routing position, the app loads the WO position but only displays the lines that are linked to the scanned routing position.
Work order position	When scanning a Work order position, the app displays all the lines belonging to that position.

© 2026 Boyum IT Solutions A/S

Line tab

After the input of the WO Position bar code, the necessary WO information appear in the Header tab and the screen automatically switches to the Line tab. Once the necessary quantities are entered, the WO Goods Receipt document is ready to be saved – ***see*** image right below.

The Warehouse field shows the default warehouse saved in the BoM entry. Any other warehouse can be selected in the Warehouse Search screen after tapping the magnifying glass icon.



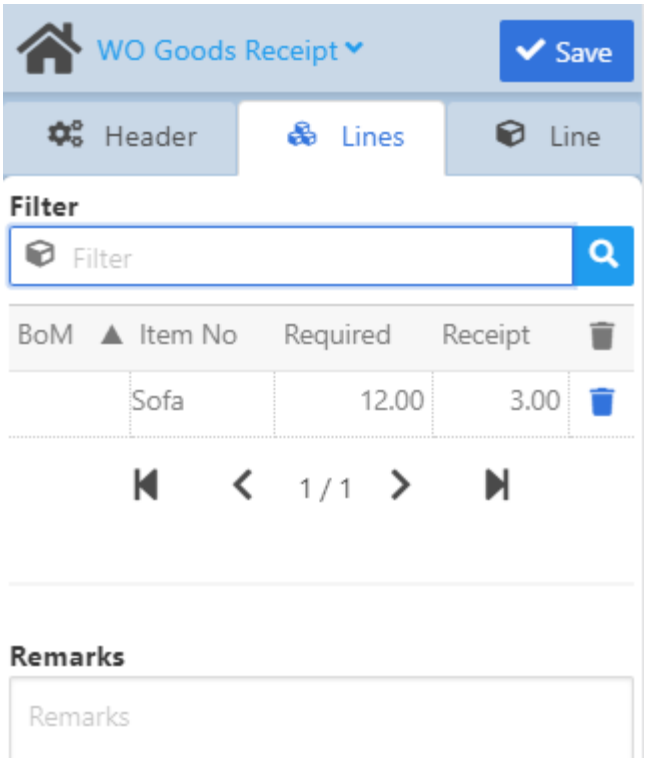
See rules of Batch/Serial Extended information screen.

WMS integration: WMS Batch attributes are supported.

Lines tab

In the Lines tab you can edit or delete a line for a received item.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Description
BoM	Work order position > BoM position number. The lines in this app are loaded with negative BoM only.
Item No	Item number
Required	Required quantity
Issue	Issued quantity
Warehouse	Warehouse
Remarks	Free text.

Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

17.4.19 WO Goods Issue

License

Warehouse Support

© 2026 Boyum IT Solutions A/S

	Optimized for Zebra Scanner	Browser Support	Bar code Support	Material Management (Issue, Receipt, Allocation)	SAP Bin Management Beas Bin Management WMS Bin Management	Print Document Support Asynchronous working

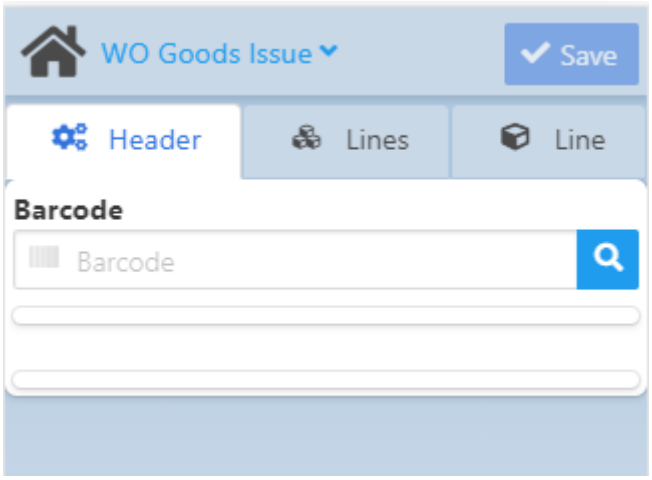
With this app you can create a multi-line issue document and define the Items to post out for a work order position.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

Header tab

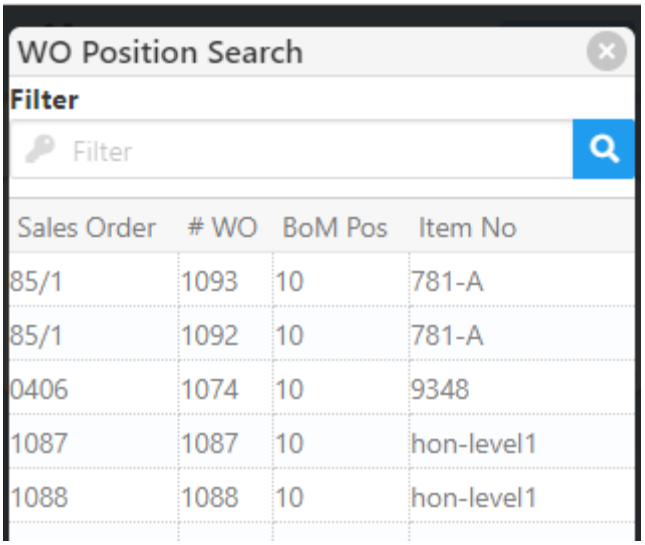
Note: When scanning a BoM bar code, the screen directly switches to the Line tab. When scanning a Routing or WO Position Bar code, the screen switches to the Lines tab.



Entering the bar code manually or selecting it with the magnifying glass icon opens the "WO Position Search" screen with filtering option. The screen displays detailed information on Work

© 2026 Boyum IT Solutions A/S

order Position by Sales Order number, Work Order number, BoM Position and Item number:



Once the selection has been made, the Work order details appear in the Header tab and the screen automatically switches to the Lines tab, similarly to the WO Position scanning process.

Field Descriptions

Field	Description
Work order related fields	
Barcode	Enter bar code: In work order the system defines a bar code for - Work order position - Bill of Materials position - Routing position You can display every Bar code in the work order document (by customizing with Crystal report)

© 2026 Boyum IT Solutions A/S

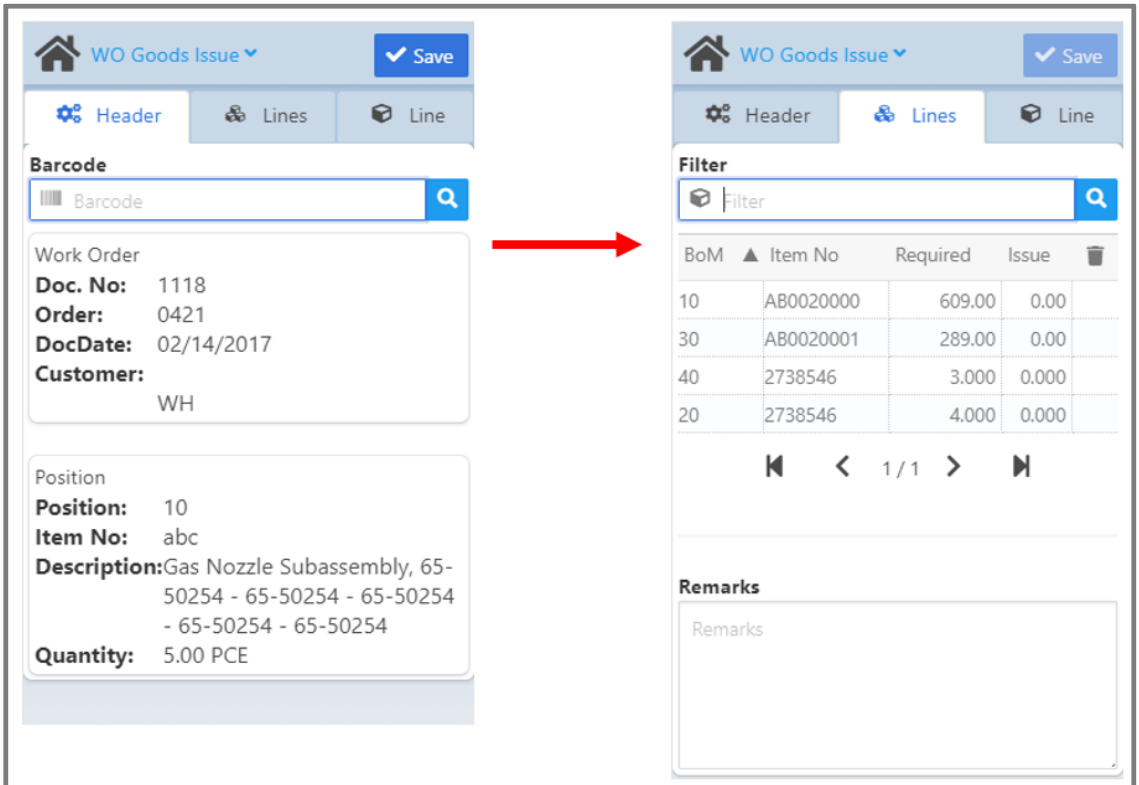
Field	Description
	 In all Work order apps you can choose the work order / work order position with all 3 bar code types. Scanner can be used for:

Bar code	App behavior
BoM position	Only BoM bar codes are allowed if the first scanning was a BoM bar code. The app displays the scanned line only.
Routing position	When scanning a Routing position, the app loads the WO position but only displays the lines that are linked to the scanned routing position.
Work order position	When scanning a Work order position, the app displays all the lines belonging to that position.

© 2026 Boyum IT Solutions A/S

Field	Description
Doc. No	Work order document number
Order	Work order number
DocDate	The day that the work order was created. dd/mm/yyyy format.
Customer	Customer name
Work order position related fields	
Position	Work order position number
Item No	item number
Description	item description
Quantity	quantity required by the work order

Lines tab



Example:

As displayed in the right image above, the Lines tab lists the WO BoM positions by Item Number, Required quantity and Issued quantity. The present quantity, before issuing, is 0.00.

© 2026 Boyum IT Solutions A/S

Filter:

WMS Integration - When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS.

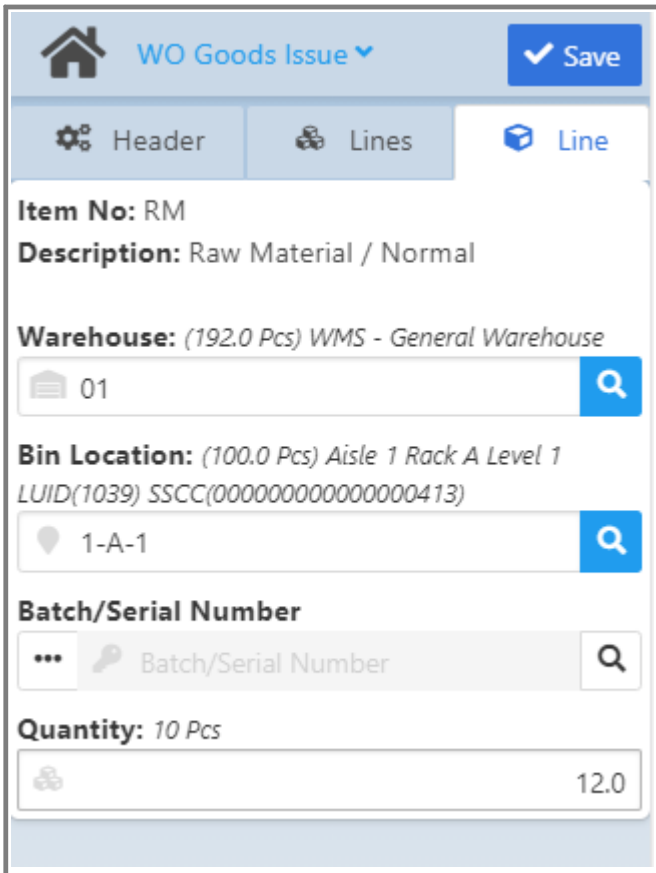
Field Descriptions

Field	Description
Filter	Search for an item. Note on WMS Quality Status filtering **WMS Integration -** When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS. NOTE: WMS quality status is not defined per serial number. For this reason, all serial numbers of the same LUID will be displayed in the material issue list, even if they have different WMS quality statuses. Only quantity available in an unblocked for production status can be issued. ***See*** further, up-to-date information on WMS-BEAS integration.
BoM	Work order position > BoM position number
Item No	Item number
Required	Required quantity
Issue	Issued quantity
Warehouse	Warehouse
LUID/SSCC	Logistic unit number (WMS)
Remarks	Free text.

Line tab

Tapping on a WO BoM position line opens the Line tab where you can provide Warehouse / Bin Location information and the quantity to be issued for the selected entry:

© 2026 Boyum IT Solutions A/S

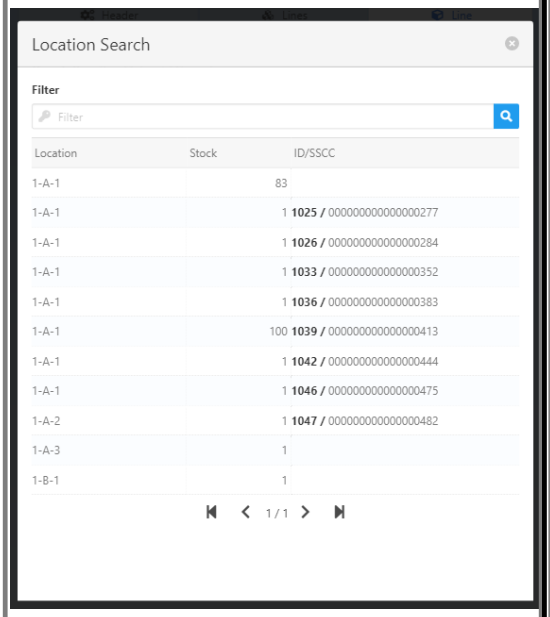


Field Descriptions

Field	Description
Item No	Displays the selected Item Number
Description	(descriptive) Item name
I-Version	Editable in case of version-managed items. If the item has several versions, you can select the version with the magnifying glass or simply start typing it in the field. When the item is batch-managed, this field also shows the number of selected batches.
Warehouse	After the selection, the Warehouse code is displayed. The exact name of the warehouse and the available number with the unit of measure for the selected item are indicated in brackets above the field. When adding a new line, the last used Warehouse (and bin location if applicable) is

© 2026 Boyum IT Solutions A/S

Field	Description
	automatically filled by the system and can be changed.
Bin Location	Display bin location When the Warehouse for the item has been selected, this field shows the default bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field. **WMS integration – LUID/SSCC support:** For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when you tap the magnifying glass icon.

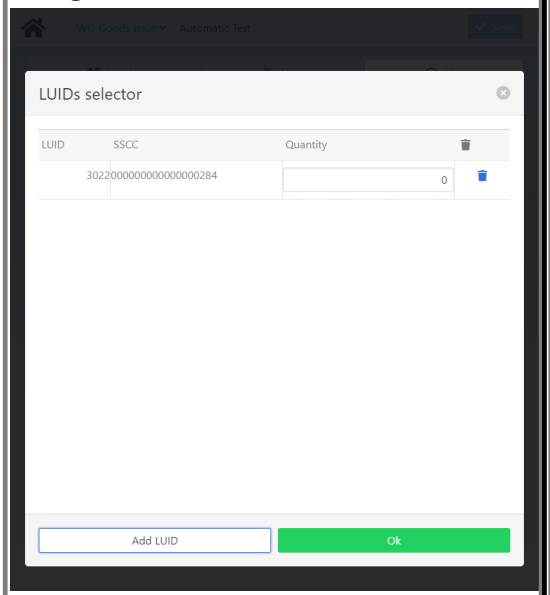


Field	Description
Location	Bin Location ID

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Stock</td><td>Available quantity in the bin location</td></tr>
<tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr>
</table>

In case of WMS bin-warehouses, tap the button to open the LUIDs selector screen to provide the LUID and the quantity. The screen allows to select the same item from more than one logistic unit (LUID) at a time.

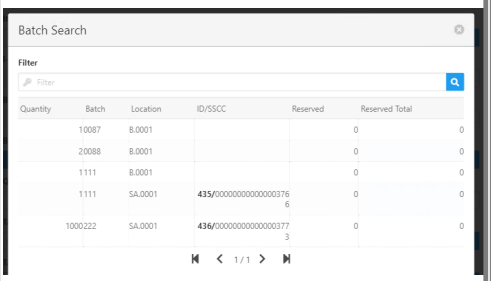
 

Add LUID button: Add more LUIDs and close the screen with the OK button. the available number for the
</td></tr>
</table>

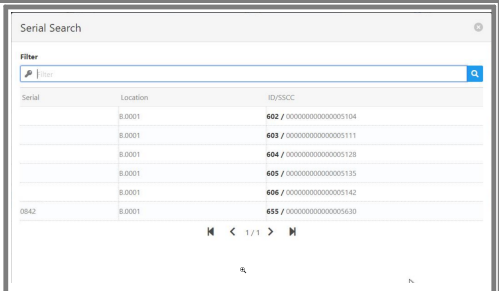
© 2026 Boyum IT Solutions A/S

Field	Description
	selected item, LUID name and description are indicated in brackets above the field in the Line tab after you close this screen. ***See*** further, up-to-date information on WMS-BEAS integration. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Filtering by WMS Zones and specific bin locations is supported. ***See*** Configuration wizard setting.

© 2026 Boyum IT Solutions A/S

Field	Description
Batch/Serial Number	Batch/Serial Number screen details The magnifying glass opens the Batch/Serial search screen where you can perform further filtering for the name of the batch/serial. The screen shows the names and bin locations of the available batches/serials and displays the WMS LUID/SSCC information. The "Batch Search" pop-up screen displays batches that have been reserved with a GREEN background. Batches reserved for other Work orders appear at the end of the list in RED background. Batch search screen - DETAILS: Open the Batch/Serial Search window with the magnifying glass icon right of the field. After selecting a batch, the LUID and SSCC and the available quantity is displayed in the main app screen, right of the "Batch/Serial Number" field name. 

© 2026 Boyum IT Solutions A/S

Field	Description
	 **Field descriptions** **Field** / **Description** Filter — Search for a specific batch. **WMS integration** note: It is possible to filter with LUID/SSCC number. ***See*** SSCC support and further, up-to-date information on WMS-BEAS integration. Available — Total available quantity. **WMS integration:** This field considers all units available for WMS lock types "Batch", "LUID" and "Detail".

© 2026 Boyum IT Solutions A/S

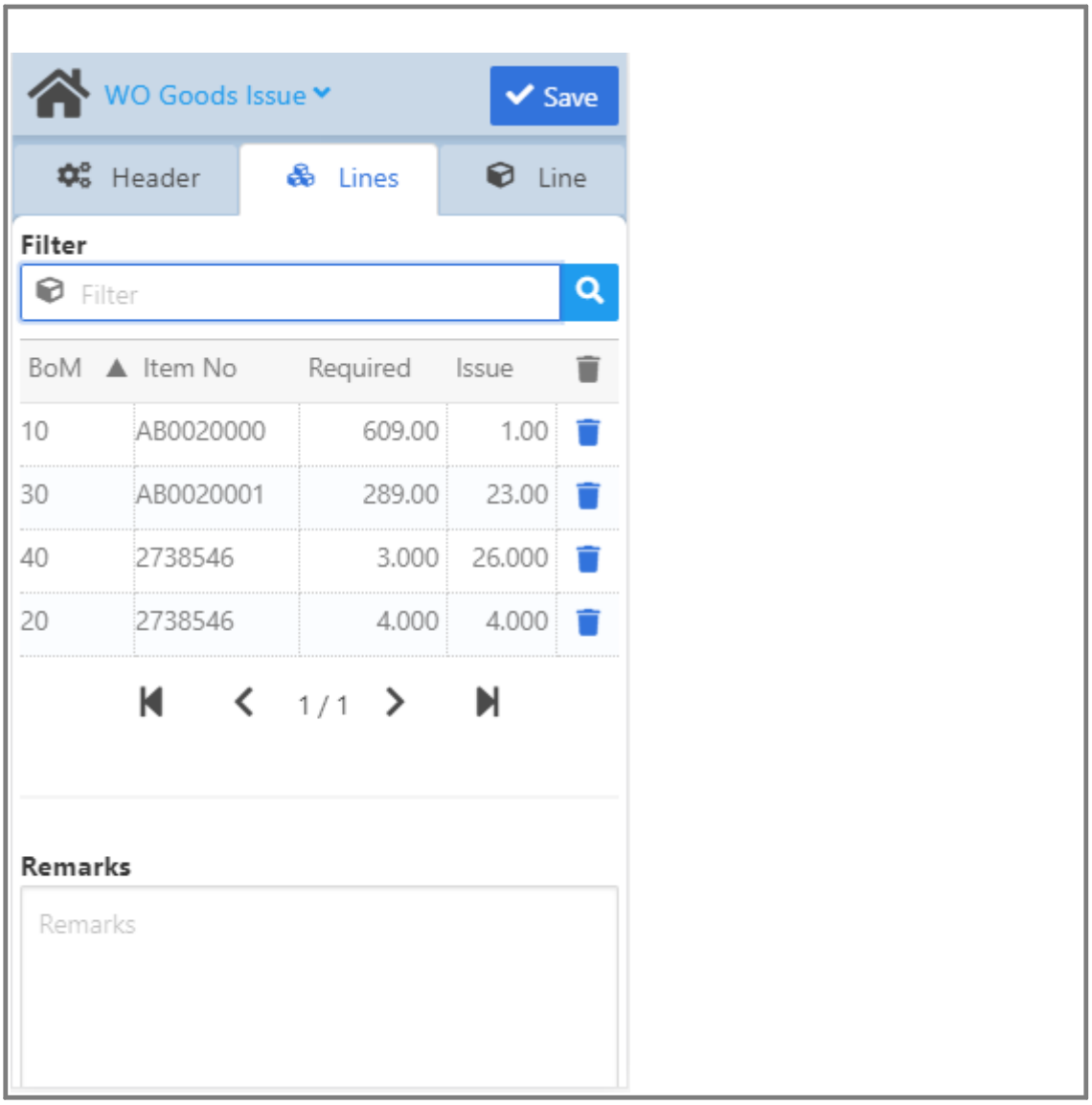
Field	Description
	<table><tr><th>Field</th><th>Description</th></tr><tr><td>Batch/Serial</td><td>Batch number</td></tr><tr><td>Location</td><td>Bin Location number</td></tr><tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr><tr><td>Reserved</td><td>Reserved batch quantity</td></tr><tr><td>Reserved Total</td><td>All reserved batch quantity. **WMS Integration:** The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".</td></tr></table> The opens the "Batch/Serials: Extended Information" screen. In this application you can edit Batch/Serial number, Version and Quantity fields. ***See*** other, non-editable attributes in Extended information screen. **WMS integration:** Tap the magnifying glass icon to filter by LUID.

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: It is not possible to do so with the Batch/Serial Extended Information screen. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required.
Quantity	Quantity to be issued in Production UoM.

Once the all necessary quantities to issue have been added, the WO Goods Issue document is ready to be saved.

© 2026 Boyum IT Solutions A/S



Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

Limitations:

- Only one WO position per document can be managed.
- Multiple Batch / Serial Numbers are allowed. ***See*** Batches: Extended Information.
- There is no cancellation process; Issue on Assembly is not possible.
- It is not possible to book other items or add new BoM positions.

© 2026 Boyum IT Solutions A/S

Note: Working with this app is a manual process, as automatic allocation is not supported.

17.4.20 WO Issue by SSCC

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Material Management (Issue, Receipt, Allocation)	Warehouse Support: SAP Bin Management Beas Bin Management WMS Bin Management	Print Document Support Asynchronous working

With this app you can create a work order material issue based on SSCC information.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

App settings

Print solution:

Select which document should be printed by the print solution.

Off: no printing

Crystal: Print Open Qty, Max. Reserved, Remaining on SSCC

RTF: Print Open Qty, Max. Reserved, Remaining on SSCC

Script: Print Open Qty, Max. Reserved, Remaining on SSCC

See detailed description of Print types.

Steps:

Select a Work order manually or by Bar code.

The app displays all related lines.

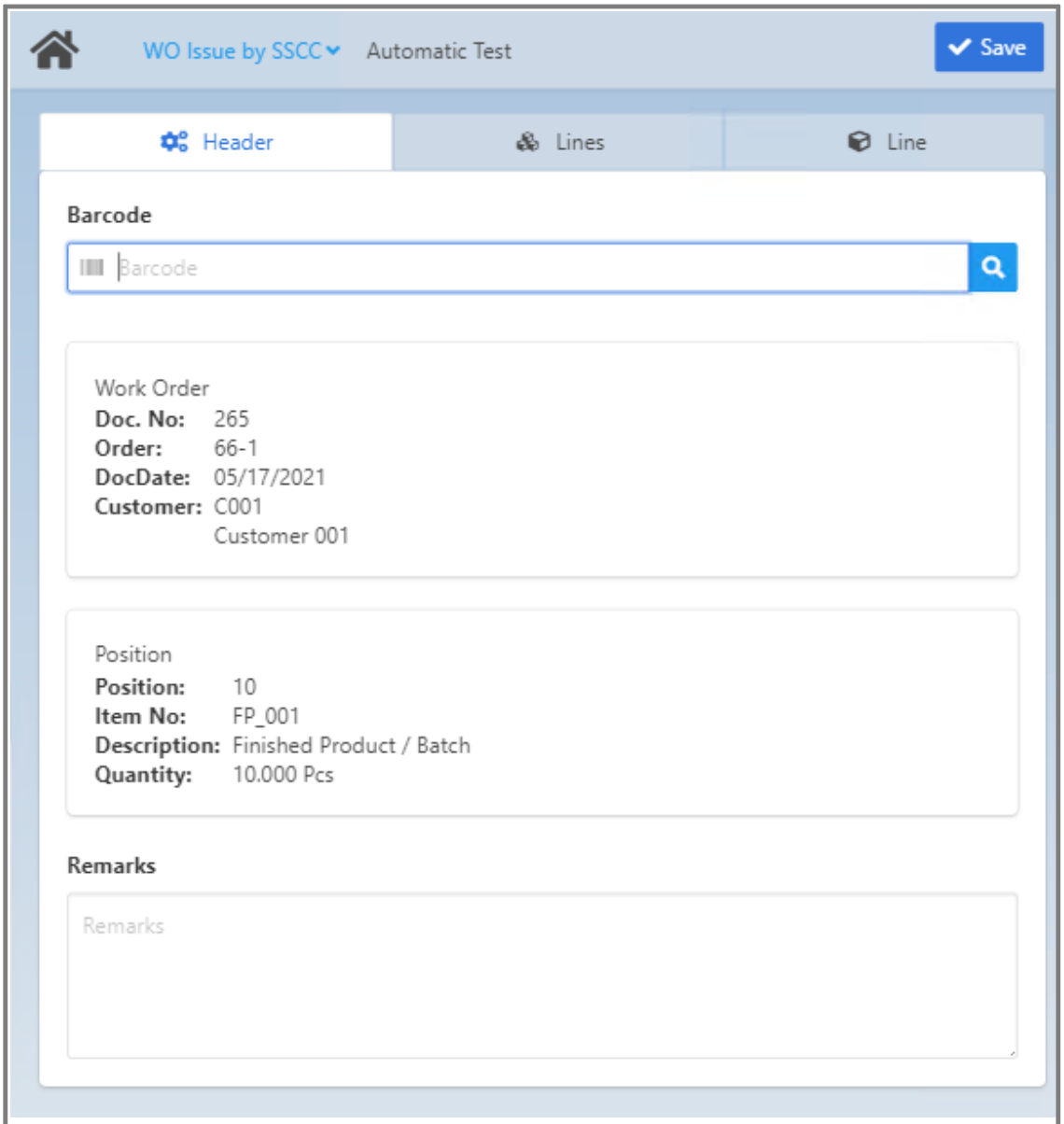
Scan GS1-128 barcode or manually choose material that you want to issue for the work order.

For WMS Customers:

For users without WMS installation:

- **Header - Choose work order**

© 2026 Boyum IT Solutions A/S

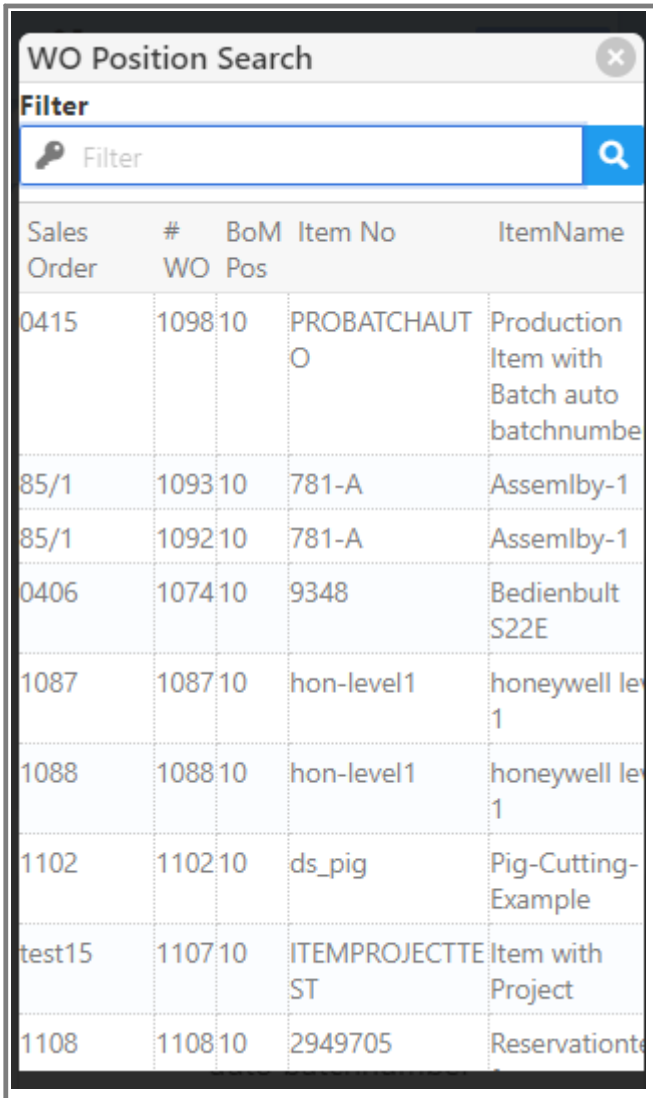


Scan the Bar code of the Work order position. ***See*** Work order bar code

Alternatively, you can use the magnifying glass icon to select a position from the list in the "WO Position Search" filter.

The "WO Position Search" filter displays information regarding the linked Sales Order, the WO number, BoM position, Item number and Item name:

© 2026 Boyum IT Solutions A/S



After selecting the WO position, the system switches to the "Lines" tab.

Field Descriptions

Field	Description
Work order related fields	
Barcode	Enter bar code: In work order the system defines a bar code for - Work order position - Bill of Materials position - Routing position

© 2026 Boyum IT Solutions A/S

Field	Description
	You can display every Bar code in the work order document (by customizing with Crystal report) In all Work order apps you can choose the work order / work order position with all 3 bar code types. Scanner can be used for:

Bar code	App behavior
BoM position	Only BoM bar codes are allowed if the first scanning was a BoM bar code. The app displays the scanned line only.
Routing position	When scanning a Routing position, the app loads the WO position but only displays the lines that are linked to the scanned routing position.
Work order	When scanning a Work

© 2026 Boyum IT Solutions A/S

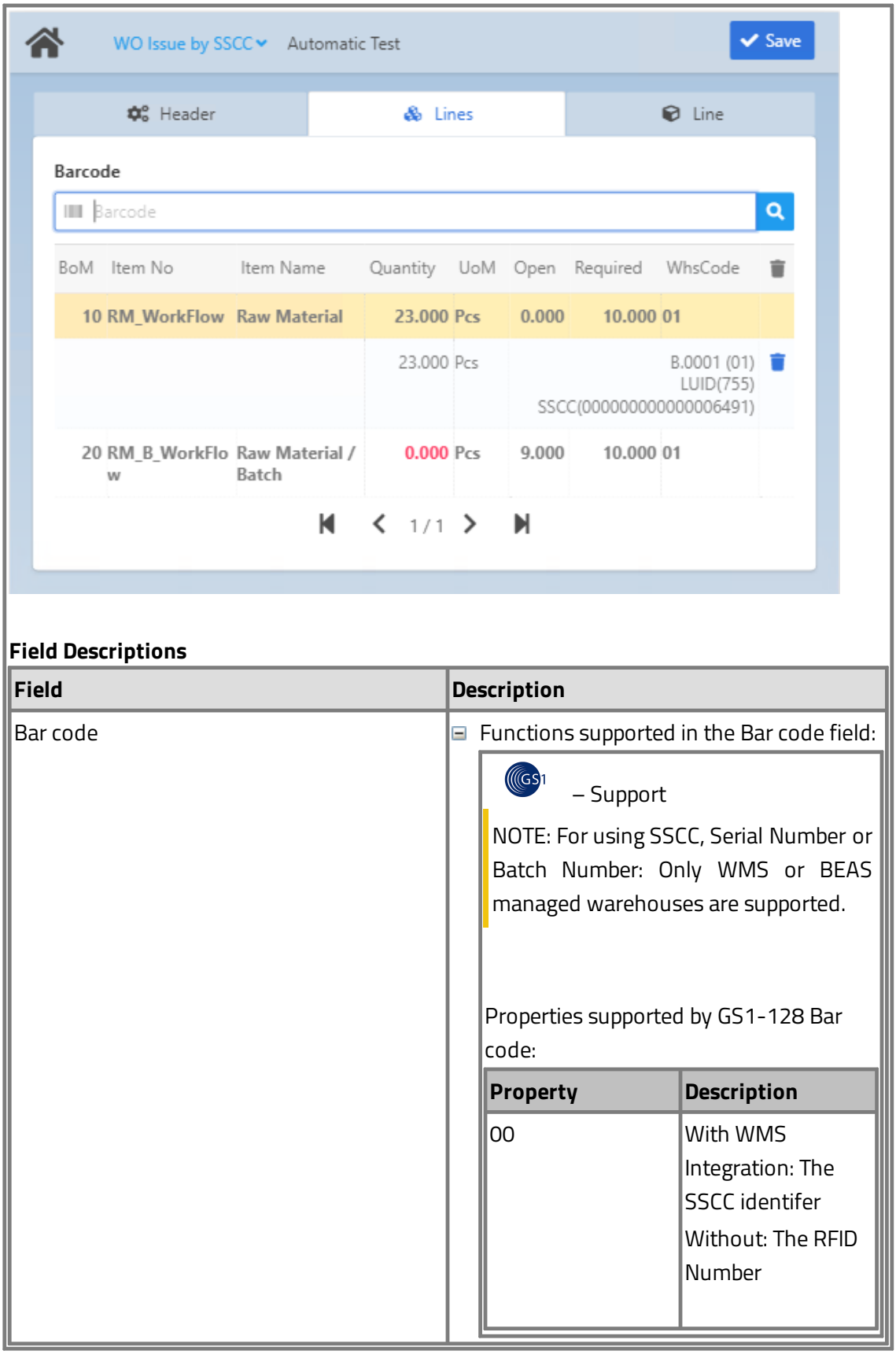
Field	Description
	<table><tr><th>Bar code</th><th>App behavior</th></tr><tr><td>position</td><td>order position, the app displays all the lines belonging to that position.</td></tr></table>
Doc. No	Work order document number
Order	Work order number
DocDate	The day that the work order was created. dd/mm/yyyy format.
Customer	Customer name
Work order position related fields	
Position	Work order position number
Item No	item number
Description	item description
Quantity	quantity required by the work order

Remarks: Free text information.

Lines

In this tab you can click on an item to add the quantities to allocate.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Description
Bar code	Functions supported in the Bar code field: – Support NOTE: For using SSCC, Serial Number or Batch Number: Only WMS or BEAS managed warehouses are supported. Properties supported by GS1-128 Bar code:

Property	Description
00	With WMS Integration: The SSCC identifer Without: The RFID Number

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Property</th><th>Description</th></tr><tr><td></td><td>This is a 18-digit numeric value. The system automatically loads all items with this SSCC ID and links this to the Bill of Materials positions. Note: If SSCC and GS1 Bar code is defined, the behavior of the quantities is according to the parameters. Note: Master SSCC is NOT supported! Note: If WMS is installed, only WMS-managed warehouses are supported. If WMS is not installed, only Beas Bin-managed warehouse are supported. Normal- or SAP managed</td></tr></table>

© 2026 Boyum IT Solutions A/S

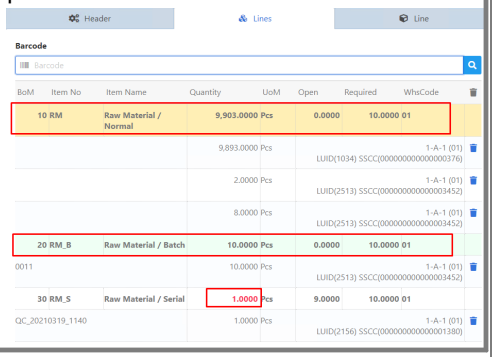
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Property</th><th>Description</th></tr>
<tr><td></td><td>warehouse cannot support SSCC.</td></tr>
<tr><td>01</td><td>The Item Bar code Number saved in item master data -> Barcode</td></tr>
<tr><td>10</td><td>The Batch Number or Serial number</td></tr>
<tr><td>30</td><td>Quantity</td></tr>
<tr><td>241</td><td>ItemCode (alternative to item Bar code)</td></tr>
</table>

If Item Bar code or / and Batch Number or Serial Number is defined, the system searches for the related Bill of Materials position and inserts the item / batch item automatically with Open quantity up to available quantity in the batch.

If Batch Number / Serial number and SSCC are not defined, the system switches only to the "Line" tab with the defined item code.

Additional Bar codes:
With the following bar codes (simple EAN bar codes) the system automatically opens the "Line" tab for the relevant Bill of Materials position:
- The Item Bar code Number
- Bill of Materials Bar code
</td></tr>
</table>

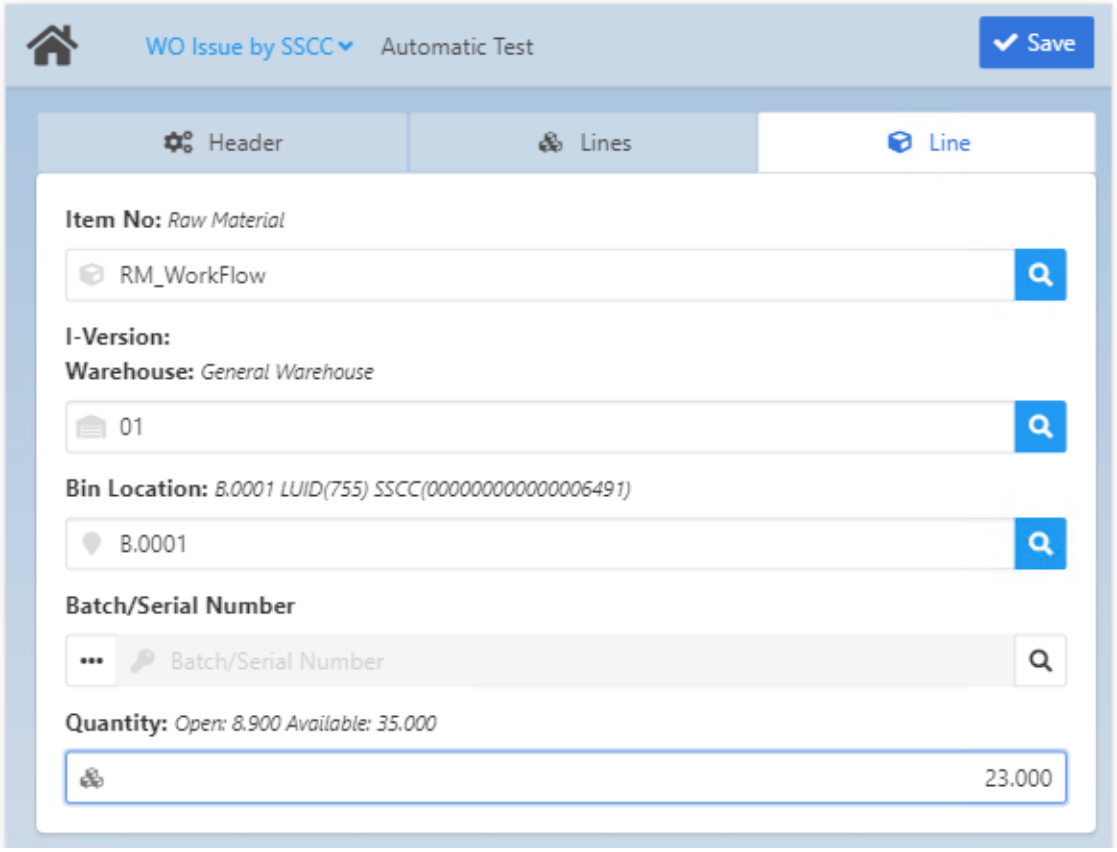
© 2026 Boyum IT Solutions A/S

Field	Description
BoM	Bill of Materials position **Attention:** The app only supports the issue process of further items that match the SSCC and the current Work Order BoM! **Limitation:** If the WO position does not have any operations, the system does not load BoM information.
Item No	Item number
Item Name	Name of the item
Quantity	Quantities already reserved. ▪ Red: when Open Quantity is > 0 ▪ Green = When open Quantity is 0 ▪ Yellow = When open Quantity is < 0 (negative), when selected is more than planned. 
Open	Open quantities
Required	Quantity required by the work order
WhsCode	Warehouse Code
LUID/SSCC or RFID	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.

Line

This tab opens automatically when you select an item in the Lines tab.

© 2026 Boyum IT Solutions A/S



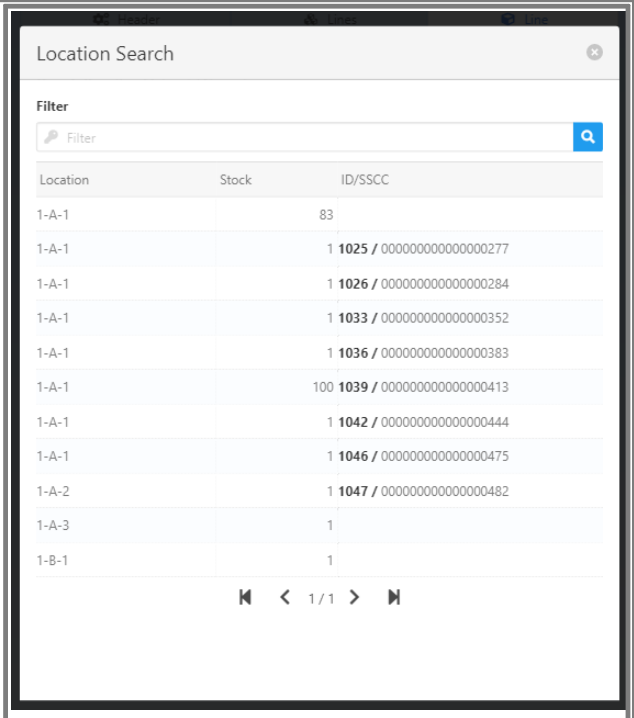
Field descriptions

Field	Description
Item No	Item number. The type is indicated in italics, for example "*Raw Material*"
I-Version	Item version
Warehouse	Select warehouse. The type is indicated in italics, for example "*General Warehouse*", *'Allocation Warehouse'*, *'SAP Bin Warehouse'* etc.
Bin Location	When the Warehouse for the item has been selected, this field shows the exact bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field.

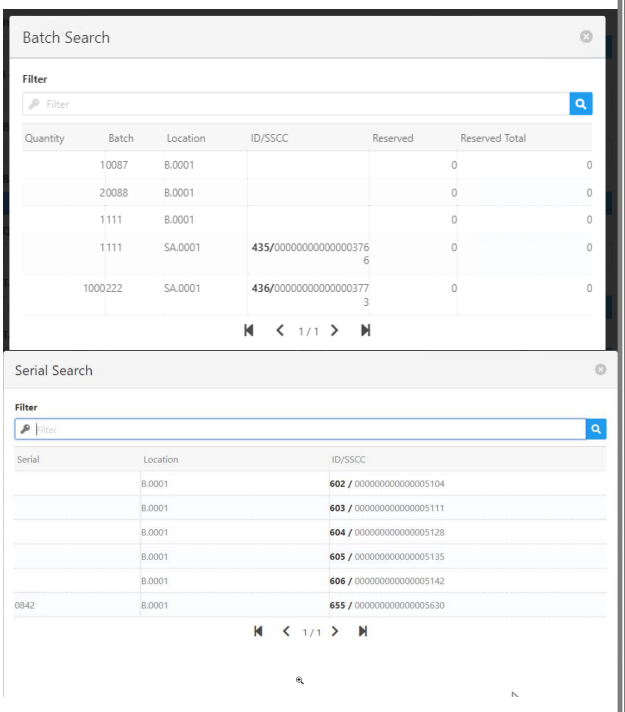
© 2026 Boyum IT Solutions A/S

Field	Description
	Mobile View: The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. WMS integration - LUID/SSCC support For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when you tap the magnifying glass icon.

© 2026 Boyum IT Solutions A/S

Field	Description
	 **Field** / **Description** Location — Bin Location ID Stock — Available quantity in the bin location ID/SSCC — Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.
Batch/Serial Number	Batch/Serial number. The magnifying glass opens the Batch/Serial search screen where you can perform further filtering for the name of the batch/serial. The screen shows the

© 2026 Boyum IT Solutions A/S

Field	Description
	names and bin locations of the available batches/serials and displays the WMS LUID/SSCC information. The "Batch Search" pop-up screen displays batches that have been reserved with a GREEN background. Batches reserved for other Work orders appear at the end of the list in RED background. Batch search screen - DETAILS: Open the Batch/Serial Search window with the magnifying glass icon right of the field. After selecting a batch, the LUID and SSCC and the available quantity is displayed in the main app screen, right of the "Batch/Serial Number" field name.  **Field descriptions**

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Field</th><th>Description</th></tr><tr><td>Filter</td><td>Search for a specific batch. WMS integration note: It is possible to filter with LUID/SSCC number. See SSCC support and further, up-to-date information on WMS-BEAS integration.</td></tr><tr><td>Available</td><td>Total available quantity. WMS integration: This field considers all units available for WMS lock types "Batch", "LUID" and "Detail".</td></tr><tr><td>Batch/Serial</td><td>Batch number</td></tr><tr><td>Location</td><td>Bin Location number</td></tr><tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr><tr><td>Reserved</td><td>Reserved batch quantity</td></tr><tr><td>Reserved Total</td><td>All reserved batch quantity. WMS Integration: The quantity considers all</td></tr></table>

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Field</th><th>Description</th></tr><tr><td></td><td>WMS locks of supported types "Batch", "LUID" and "Detail".</td></tr></table> ***See*** also Batch/Serial Extended Information screen. **WMS integration:** Tap the magnifying glass icon to filter by LUID. Note: It is not possible to do so with the Batch/Serial Extended Information screen.
Quantity	⊟ Issue Quantity. Right of the field name, the "Open" and "Available" quantities are indicated. *Open:* Always displays the remaining quantity in this BoM position that is not reserved. *Available*: Always displays the available quantity for this SSCC for the selected batch or location. Note: With the Open Quantity setting active, if you scan an SSCC to cover complete/partially all positions of a BoM with more than 1 position for the same item, the system will display incorrect value in *Available*.
After inserting all required information, click the **Save** button to finalize and create the Issue document.	

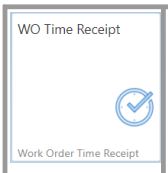
Settings

Setting	Description
Quantities	PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup". ⊟ Define how to handle quantities from a SSCC in a WO Issue <table><tr><td>Open Quantity</td><td>For the issue process, the app only assigns open quantity for</td></tr></table>

© 2026 Boyum IT Solutions A/S

Setting	Description
	each BoM position.
	Max. Reserved: Maximum reserved quantity - for the issue process, the system only assigns the quantity that is already reserved for an item.
	Remaining on SSCC: For the issue process, the system assigns all quantities that are on the SSCC. Note: If the Work order has 1< BoM positions for the same item, Beas assigns all remaining quantities on the SSCC to the first BoM position.

17.4.21 WO Time Receipt



Optimized for Zebra Scanner

Browser Support

Bar code Support

License

Production Data Collection

Warehouse Support

SAP Bin Management

Beas Bin Management

WMS Bin Management

With this app you can create a Time Receipt for a Production order. ***See*** basic WebApp controls in General Information on WEB APPS Version 2.1.

The app consists of three tabs: Header, Lines and Line.

It is possible to provide the bar code of the WO information by scanning or manual input. Filtering is possible with the magnifying glass icon: tapping on it opens the "WO Routing Search" screen, where you can select the operation to receipt. (***See*** image below).

Settings:

Time Display

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

Select the layout of time-related fields to be displayed in the selected app:

- Time From/To
- Duration

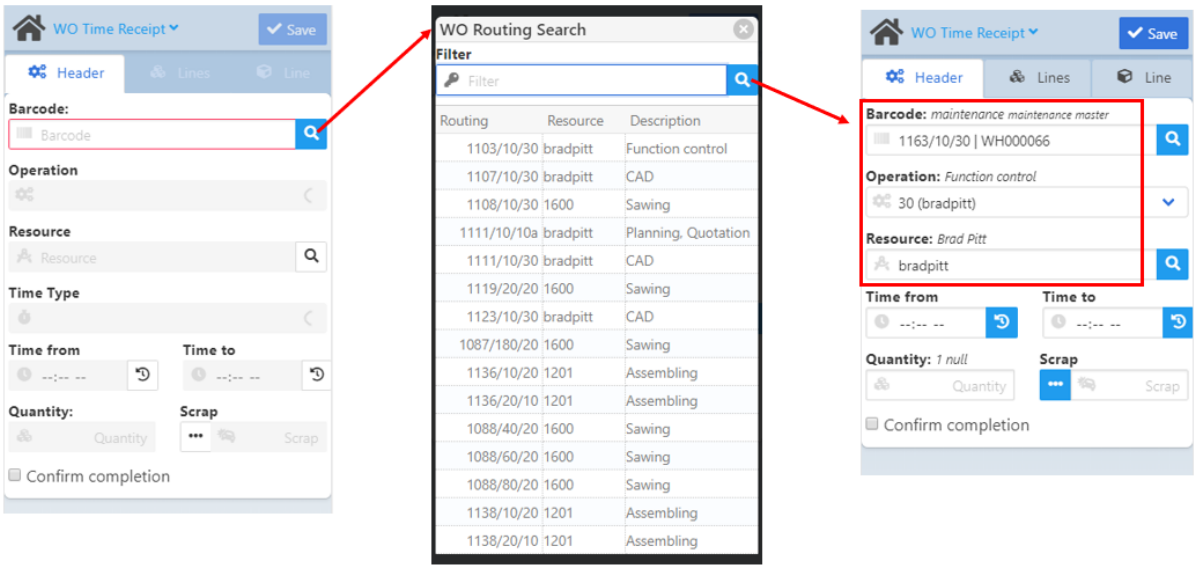
© 2026 Boyum IT Solutions A/S

- Time From/To + Duration

Setting is available for WebApps:
WO Time Receipt
WO Backflushing
WO Stop

See also extended App Setup.

See Logon/Logoff rules, app setup and other parameters in the Configuration wizard settings of the Web Terminal.



Upon saving, the Time Receipt is visible in **SAP B1 > Work orders**. The below image displays the receipt for the operation selected above:

IMPORTANT: The "Exceeding planned quantity allowed" production configuration setting affects WO Time Receipt. ***See*** Configuration setting.

© 2026 Boyum IT Solutions A/S

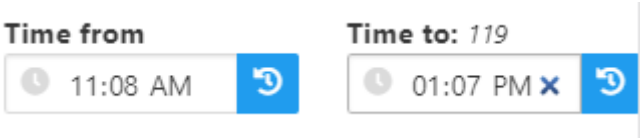
Header tab

Once all mandatory information are filled, click the **Save** button to jump to the Lines tab.

Field Descriptions

Field / Function	Description
Barcode	Using the bar code scanner, the bar code of the WO operation appears in the field, filling all WO-related information automatically (***see*** third image above). The information is displayed with WO number / WO positions and indicating the WO item name in italics right to the field name (***see*** third image above).
Operation	The field is automatically filled with the information coming from WO-number scanning or manual input. The WO position number of the operation appears in the field along with the name of the used Resource in brackets – ***see*** third image above: 30 (bradpitt) . The description of the operation is indicated in italics right to the field name ("Function control" in our example above). **NOTE:** Parallel operations do not consider quantities and do not manage Open/Close status!. Time receipt creation does not close a parallel operation.
Resource	The field is automatically filled with the information coming from WO-number scanning or manual input. The name of the Resource appears in the field, and its description is displayed right to the field name. The resources for the user can be selected and set up in Personnel administration > FDC settings.
Time Type	Select a time type. ***See*** also Concept Time Types.
Time from / Time to	Enter the time period of the operation with these fields. The earliest possible "Time from" input is the actual time according to the system. AM or PM is mandatory information to add once the fields are edited. Tapping on either of the two icons will display the actual time in the given field according to the system. Once the

© 2026 Boyum IT Solutions A/S

Field / Function	Description
	duration of the operation is set with the two fields, the duration is indicated in minutes right to the "Time to" field name – ***see*** image below: the duration is *119* minutes.  **Note**: The app can only be used for the current day, and it is not possible to create a time receipt over midnight.
Duration	According to the app setup, you can make this field visible. Note: The field is not editable if "Field duration blocked" parameter was selected in **Configuration wizard > FDC > View Time Receipts**. ***See*** also extended App settings and the **Settings** section below.
Quantity	Provide the quantity to be receipted. Indicated right of the field name: - pending/total quantity. Pending quantity is based on previously reported time receipt quantities - Unit of measure
Scrap	Scrap quantity - field is not changeable.
Partial / Completion / Intermediate	Select one of the options to be performed at booking: - **Partial**: Create a partial time receipt for the operation. - **Completion**: Confirm completion of the operation and close the position. - **Intermediate**: Create an Intermediate report in the Time receipt. The button is visible only if the parameter in the Configuration wizard is left unchecked.
Batch/Serial Number	Visible only in case of Batch/Serial-managed items. The icon opens the Batch/Serial: Extended Information screen in Receipt Mode (***see*** the same link). **WMS integration:** WMS Batch attributes are supported.
Bin Location	Select the bin location by tapping the magnifying glass icon.

© 2026 Boyum IT Solutions A/S

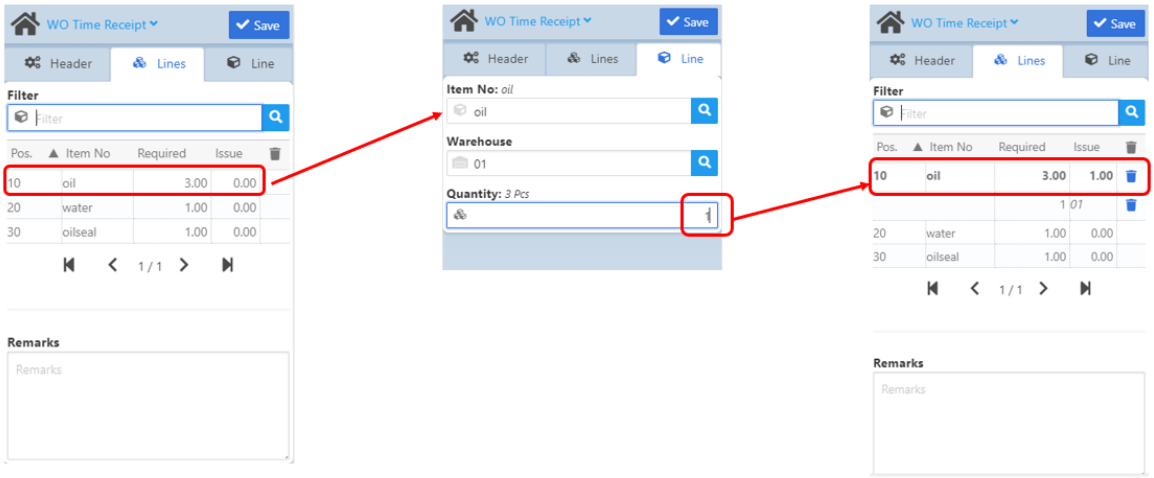
Lines tab

Once mandatory information are filled in the Header, the screen automatically switches to the Lines tab.

Other relevant information can be entered at this point by going back to the Header tab (***see*** fields in the table above).

The Lines tab displays a list of the WO positions of the operation by Position number, Item number, Required quantity and Issued quantity.

By selecting a WO position in the list, the screen automatically switches to the Line tab where you can provide the quantity to be issued for the given item (***see*** image below).



Field Descriptions

Field	Description
Filter	Search for an item. **WMS Integration:** If the receipt is made from BEAS in a WMS warehouse, it applies the Quality status defined in **Produmex WMS > Organizational Structure > Production tab**.
Pos.	Work order position
Item No	Item number
Required	Quantity required by the Work order. WMS SSCC/LUID information is displayed.
issue	issued quantity
WhsCode	Warehouse number

© 2026 Boyum IT Solutions A/S

Field	Description
LUID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.
Remarks	Free text.

The trash can icon becomes active (blue) once quantity is issued for a WO position, and the issued quantity then is deletable.
Issued quantities are displayed in bold font.
As in other WEBapps, Remarks may be added before saving the document.

Line tab

Besides adding the quantity to be receipted, it is possible to select the Warehouse/Bin location for the item(s).

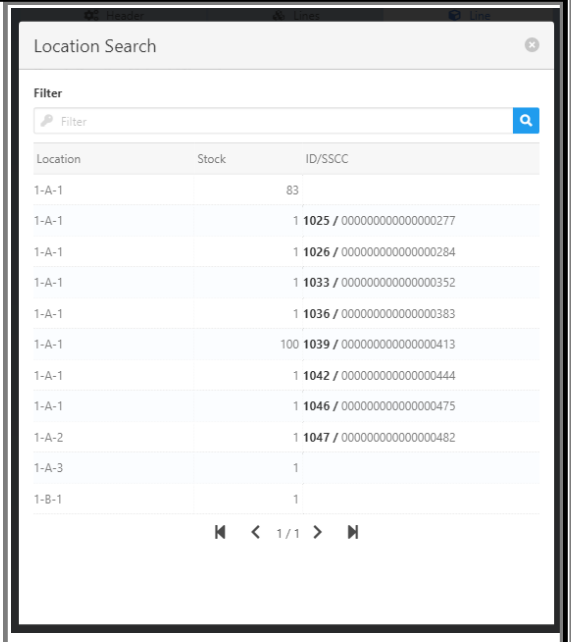
Field Descriptions

Field	Description
Item No	Item number
I-Version	Item version
Warehouse	Select Warehouse
Bin Location	When the Warehouse for the item has been selected, this field shows the exact bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. Receipt Rules Issue Rules

© 2026 Boyum IT Solutions A/S

Field	Description
	Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. WMS integration - LUID/SSCC support For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when you tap the magnifying glass icon.

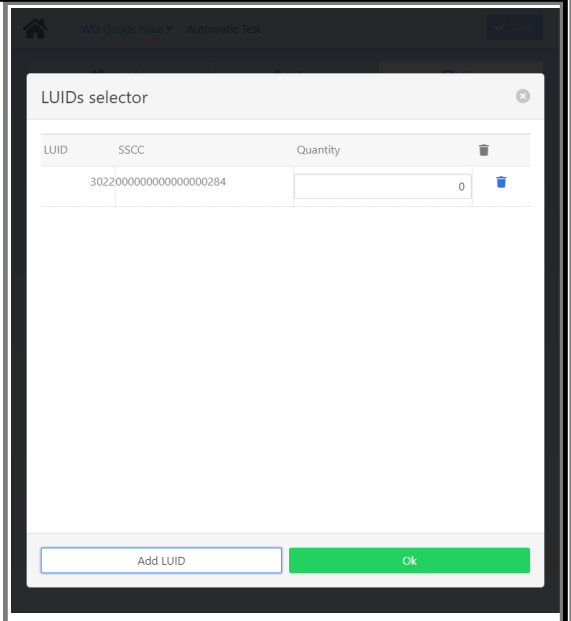
© 2026 Boyum IT Solutions A/S

Field	Description
	

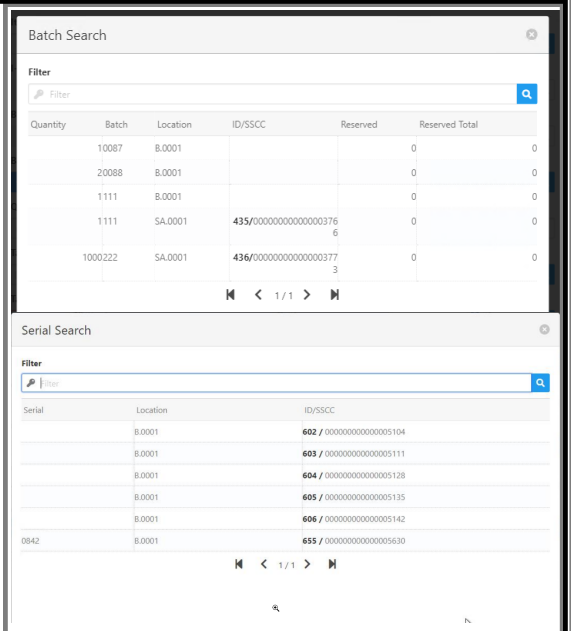
Field	Description
Location	Bin Location ID
Stock	Available quantity in the bin location
ID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.

In case of WMS bin-warehouses, tap the button to open the LUIDs selector screen to provide the LUID and the quantity. The screen allows to select the same item from more than one logistic unit (LUID) at a time.

© 2026 Boyum IT Solutions A/S

Field	Description
	 **Add LUID** button: Add more LUIDs and close the screen with the **OK** button. the available number for the selected item, LUID name and description are indicated in brackets above the field in the Line tab after you close this screen. ***See*** further, up-to-date information on WMS-BEAS integration.
Batch/Serial Number	Batch/Serial number search. Batch search screen - DETAILS: Open the Batch/Serial Search window with the magnifying glass icon right of the field. After selecting a batch, the LUID and SSCC and the available quantity is displayed in the main app screen, right of the "Batch/Serial Number" field name.

© 2026 Boyum IT Solutions A/S

Field	Description
	

Field descriptions

Field	Description
Filter	Search for a specific batch. **WMS integration** note: It is possible to filter with LUID/SSCC number. ***See*** SSCC support and further, up-to-date information on WMS-BEAS integration.
Available	Total available quantity.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>WMS integration: This field considers all units available for WMS lock types "Batch", "LUID" and "Detail".</td></tr>
<tr><td>Batch/Serial</td><td>Batch number</td></tr>
<tr><td>Location</td><td>Bin Location number</td></tr>
<tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr>
<tr><td>Reserved</td><td>Reserved batch quantity</td></tr>
<tr><td>Reserved Total</td><td>All reserved batch quantity.
WMS Integration: The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".</td></tr>
</table>

The ... opens the "Batch/Serials: Extended Information" screen. In this application you can edit Batch/Serial number, Version and Quantity fields. See other, non-editable attributes in Extended information screen.

WMS integration: Tap the magnifying glass icon to filter by LUID.
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Note: It is not possible to do so with the Batch/Serial Extended Information screen. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. **WMS integration:** Tap the magnifying glass or to filter by LUID.
Quantity	Required Quantity. Automatic pre-assign function is supported.

Tapping on the magnifying glass icon right to the "Item no." field switches the screen back to the Lines tab to edit another item of another WO position.

Once all mandatory information are filled, click the **Save** button to create the Time receipt.

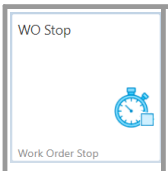
Limitations:

The following features/functions are NOT supported:

- Receipt over midnight
- Receipt for negative positions
- Pool functions
- Backflush Master-Slave
- Scrap material posting
- Scrap: Change reason
- Intermediate report
- Logon/Logoff rules
- Open QC Order after transaction

© 2026 Boyum IT Solutions A/S

17.4.22 WO Stop

	 Optimized for Zebra Scanner	Browser Support 	Bar code Support	License Production Data Collection	Warehouse Support SAP Bin Management Beas Bin Management WMS Bin Management

With this WebApp it is possible to stop an operation and close a work order position indicating the duration, the produced quantity and the remaining quantity to produce.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Logon/Logoff rules, app setup and other parameters in the Configuration wizard settings of the Web Terminal.

IMPORTANT: The "Exceeding planned quantity allowed" production configuration setting affects the WO Stop app. ***See*** Configuration setting.

Settings:

Time Display

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

Select the layout of time-related fields to be displayed in the selected app:

- Time From/To
- Duration
- Time From/To + Duration

Setting is available for WebApps:

WO Time Receipt

WO Backflushing

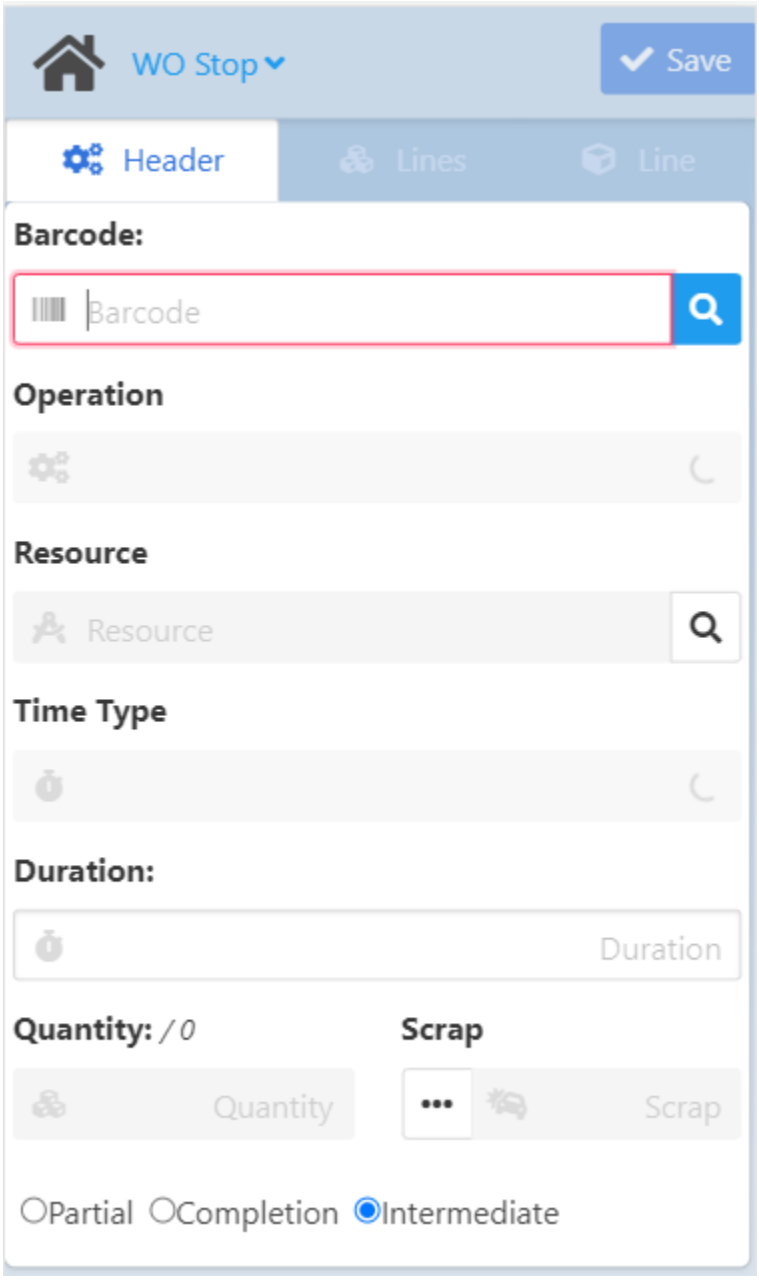
WO Stop

See also extended App Setup.

Header tab

© 2026 Boyum IT Solutions A/S

In this tab you can provide the bar code of the WO position (operation) to stop. It is possible to scan the bar code of the WO position, or, alternatively, you can use the "Barcode" filter field to find the work order to stop. Tapping the magnifying glass icon opens the "Opened work orders" screen.



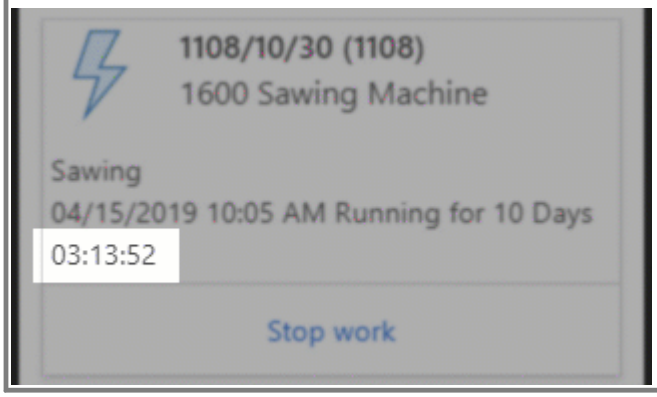
Field Descriptions

Field / Function	Description
Barcode	Scan / enter bar code

© 2026 Boyum IT Solutions A/S

Field / Function	Description
	Using the bar code scanner, the bar code of the WO operation appears in the field, filling all WO-related information automatically (***see*** third image above). The information is displayed with WO number / WO positions and indicating the WO item name in italics right to the field name (***see*** third image above).
Operation	Type of operation The field is automatically filled with the information coming from WO-number scanning or manual selection. The WO position number of the operation appears in the field along with the name of the used Resource in brackets – ***see*** third image above: 30 (1201) . The description of the operation is indicated in italics right to the field name ("Function control" in our example above). Tap the footprint symbol, and the instructions pop up in another dialog box. **NOTE:** Parallel operations do not consider quantities and do not manage Open/Close status!. Time receipt creation does not close a parallel operation.
Resource	The field is automatically filled with the information coming from WO-number scanning or manual selection. The name of the Resource appears in the field, and its description is displayed right to the field name. The magnifying glass icon opens the "Resource Search" filter screen. The resources for the user can be selected and set up in Personnel administration > FDC settings.
Time type	Select time type. The following 4 time types are available: Processing, Setup time Precalculation, Rework, Quality control (***see*** Time Types).

© 2026 Boyum IT Solutions A/S

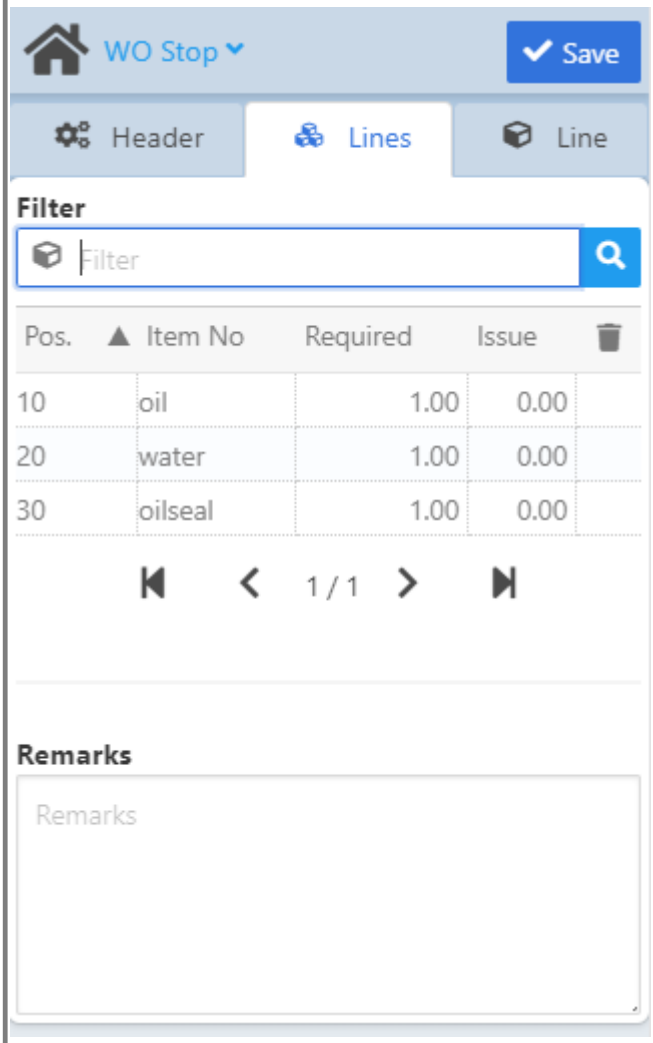
Field / Function	Description
Duration	Time elapsed since the start date Right to the field name you can see the start date of the operation (***see*** third image above), and the field automatically displays the time elapsed since the start date in minutes. According to the app setup, you can make this field visible. ***See*** more details of extended App settings. The field is not editable if "Field duration blocked" parameter was selected in **Configuration wizard > FDC > View Time Receipts**. In the "Opened work orders" screen the passing of time is indicated in seconds in real time: 
Quantity	Provide the remaining quantity to produce. If this field is filled, the Lines and the Line tab become inactive and the document is ready to be saved. The unit of measure is indicated right to the field name.
Scrap	Provide the scrap quantity if necessary. Tapping on the icon opens the "Scrap reasons" screen where you can select scrap quantity by scrap reasons and enter a description.
Partial / Completion / Intermediate	Select one of the options to be performed at booking: - **Partial**: Create a partial time receipt for the operation. - **Completion**: Confirm completion of the operation and close the position. - **Intermediate**: Create an Intermediate report in the Time receipt. The button is visible only if the parameter in the Configuration wizard is left unchecked.

© 2026 Boyum IT Solutions A/S

Field / Function	Description

Lines tab

Upon tapping the "Stop work" button for an operation in the list, the app switches to the Lines tab which displays the individual WO positions of the operation in a list.
The list displays the WO positions of the operation by Position number, Item number, Required quantity and Issued quantity.
By tapping on a position, it is opened in the Line tab.



Field Descriptions

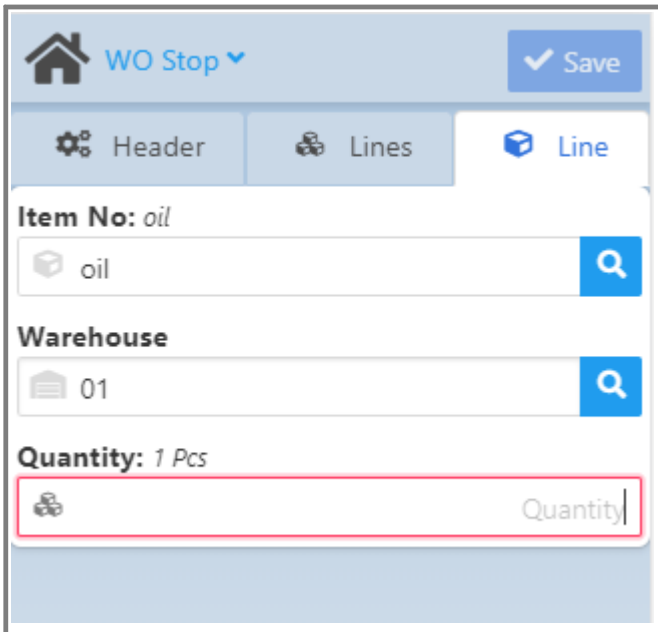
© 2026 Boyum IT Solutions A/S

Field	Description
Filter	Search for an item. Note on WMS Quality Status filtering **WMS Integration -** When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS. NOTE: WMS quality status is not defined per serial number. For this reason, all serial numbers of the same LUID will be displayed in the material issue list, even if they have different WMS quality statuses. Only quantity available in an unblocked for production status can be issued. ***See*** further, up-to-date information on WMS-BEAS integration.
Pos.	Work order position
Item No	Item number
Required	Quantity required by the Work order. WMS SSCC/LUID information is displayed.
Issue	issued quantity in Production UoM
WhsCode	Warehouse number
LUID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.
Remarks	Free text.

Line tab

In the Line tab it is possible to enter item-specific information for a WO-position: Item number, I-Version (if applicable), Warehouse, Bin location (if applicable), Batch/Serial information and Quantity.

© 2026 Boyum IT Solutions A/S



The entered quantity then appears in bold font in the "Issue" column of the Lines tab (***see*** image below).

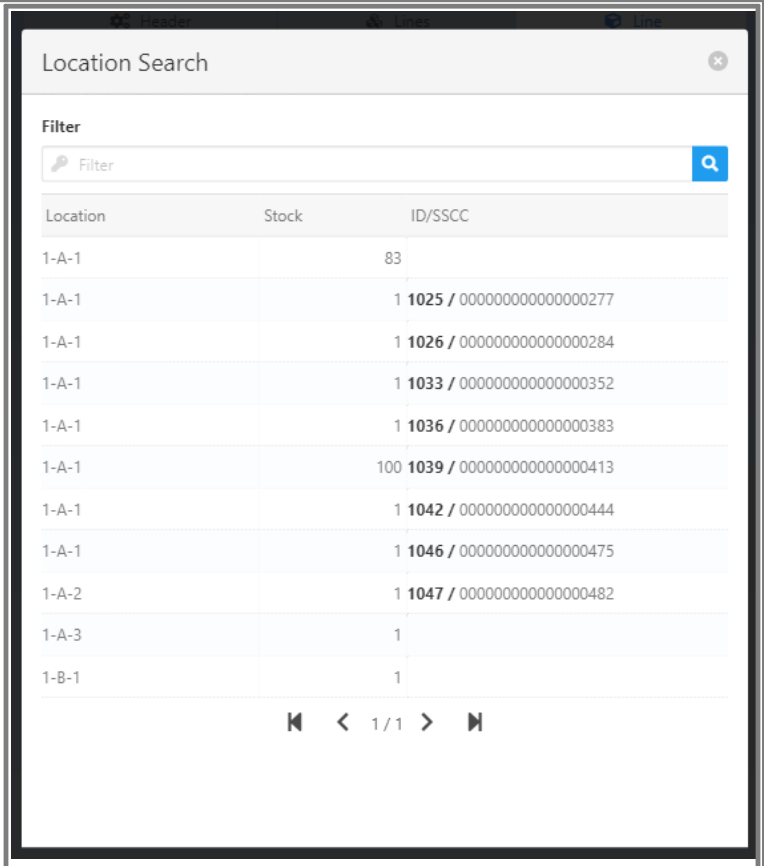
Field Descriptions

Field	Description
Item No	Item number
Warehouse	Select Warehouse
Bin Location	When the Warehouse for the item has been selected, this field shows the exact bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. Receipt Rules Issue Rules

© 2026 Boyum IT Solutions A/S

Field	Description
	Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. WMS integration - LUID/SSCC support For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when you tap the magnifying glass icon.

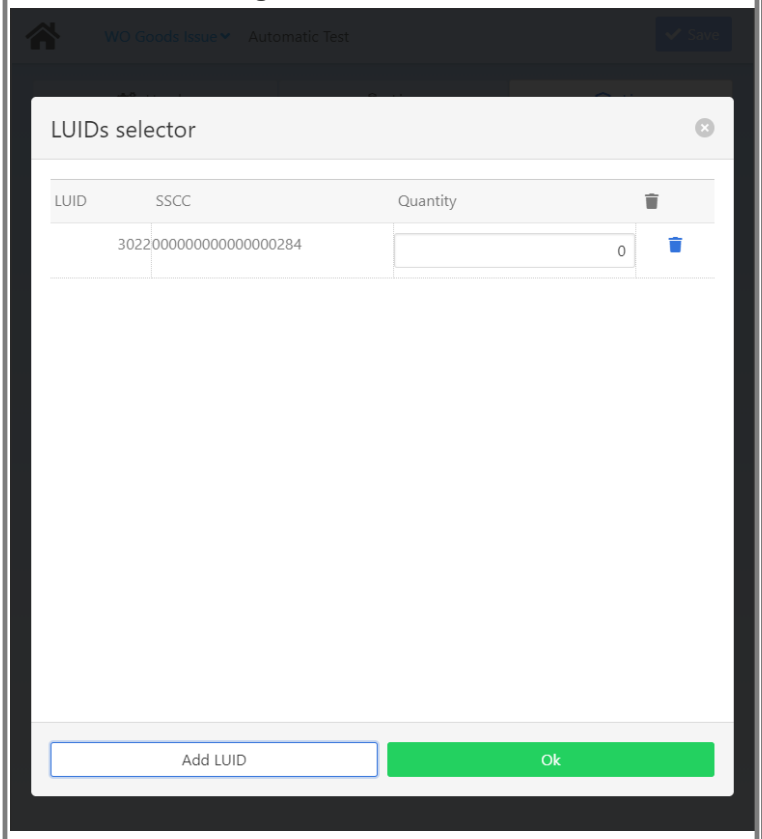
© 2026 Boyum IT Solutions A/S

Field	Description
	

Field	Description
Location	Bin Location ID
Stock	Available quantity in the bin location
ID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.

In case of WMS bin-warehouses, tap the button to open the LUIDs selector screen to provide the LUID and

© 2026 Boyum IT Solutions A/S

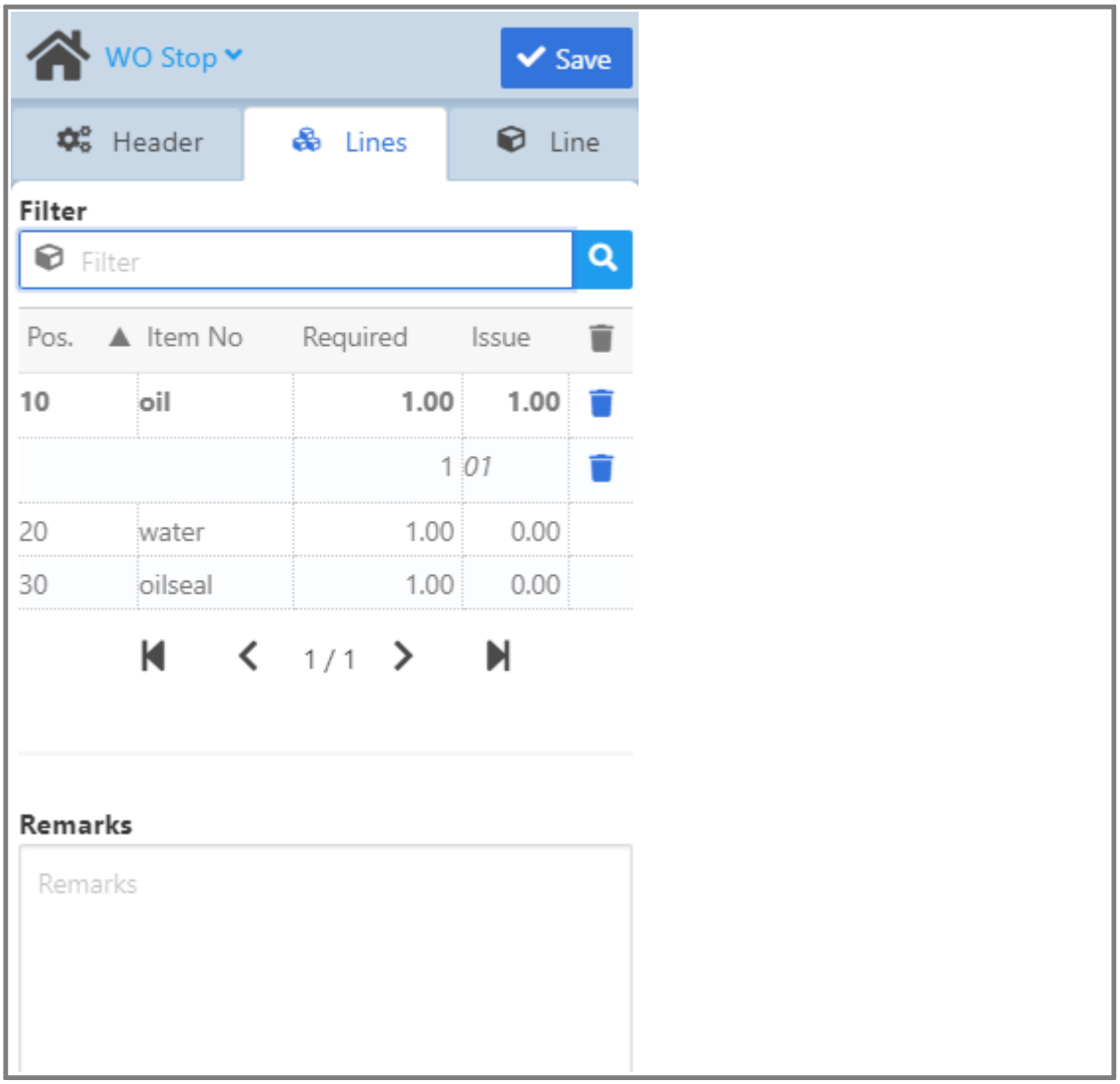
Field	Description
	the quantity. The screen allows to select the same item from more than one logistic unit (LUID) at a time.  **Add LUID** button: Add more LUIDs and close the screen with the **OK** button. the available number for the selected item, LUID name and description are indicated in brackets above the field in the Line tab after you close this screen. ***See*** further, up-to-date information on WMS-BEAS integration.
Batch/Serial Number	Batch/Serial number search. The ••• opens the "Batch/Serials: Extended Information" screen. In this application you can edit Batch/Serial number, Version and Quantity fields. ***See*** other, non-editable attributes in Extended information screen. **WMS integration:**

© 2026 Boyum IT Solutions A/S

Field	Description
	- Tap the magnifying glass icon to filter by LUID. Note: It is not possible to do so with the Batch/Serial Extended Information screen. - WMS Batch attributes are supported. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. **WMS integration:** Tap the magnifying glass or to filter by LUID.
Quantity	Quantity of item indicated in Production UoM. Automatic pre-assign function is supported.

In the Lines tab the trash can icon becomes active (blue) once quantity is issued for a WO position. The issued quantity then is deletable.
As in other WebApps, Remarks may be added before closing the WO position and saving the document.

© 2026 Boyum IT Solutions A/S



Limitations:

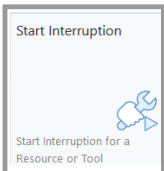
The following features/functions are NOT supported:

- Receipt over midnight
- Receipt for negative positions
- Pool functions
- Backflush Master-Slave
- Scrap material posting
- Scrap: Change reason
- Logon/Logoff rules
- Open QC Order after transaction

© 2026 Boyum IT Solutions A/S

- The Attendence linking configuration setting

17.4.23 Start Interruption

		Browser Support		License Production Data Collection	

The Start interruption app allows to log an interruption on a resource in the system. This app starts the clock on the interruption time.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

NOTE: This WebApp does not support the option to create a Maintenance order in Interruption reasons master data (Desktop solution). ***See*** Maintenance order creation parameter.

There are two tabs available:

- Resource
- Tool

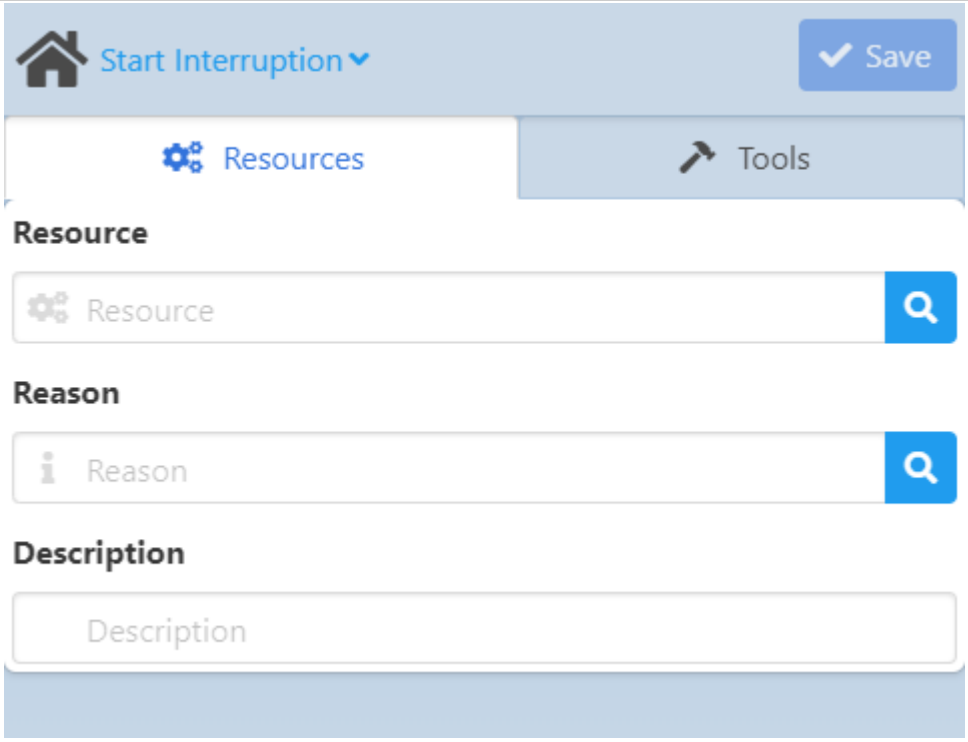
Resource tab

1. Search by resource code or name.

   As you enter the name or code, the app filters the results. Alternatively, use the search icon to display and select from all available resources.

   Only the resources that are available to the user are displayed. Resource groups, external or inactive resources are not available.
   The resources for the user can be selected and set up in Personnel administration > FDC settings.

© 2026 Boyum IT Solutions A/S

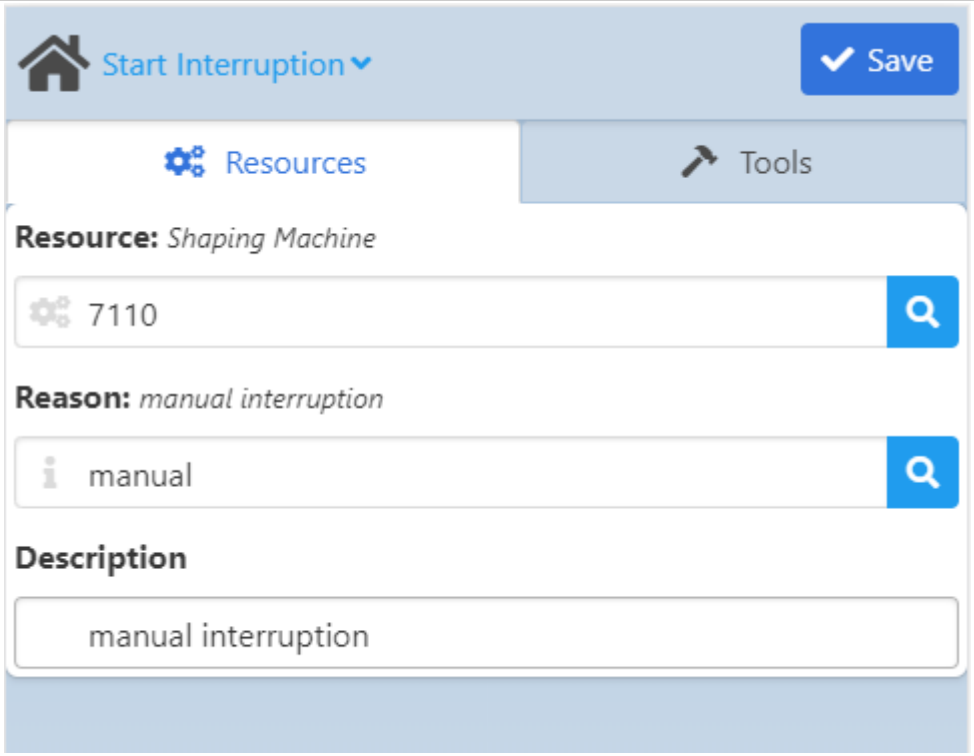


2. Enter the interruption reason in the *Reason* field or choose from the list, using the search icon.

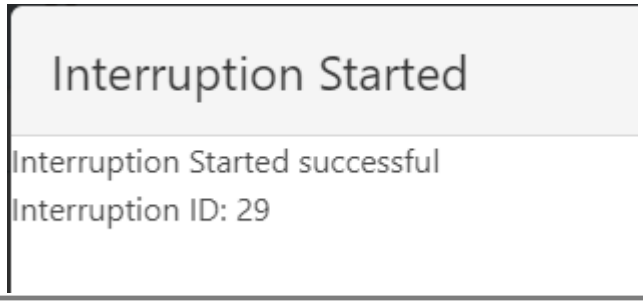
   After the interruption reason is selected, the description is automatically added, but can be changed if necessary.

   .

© 2026 Boyum IT Solutions A/S



3. Click the **Save** button to start the interruption timer.



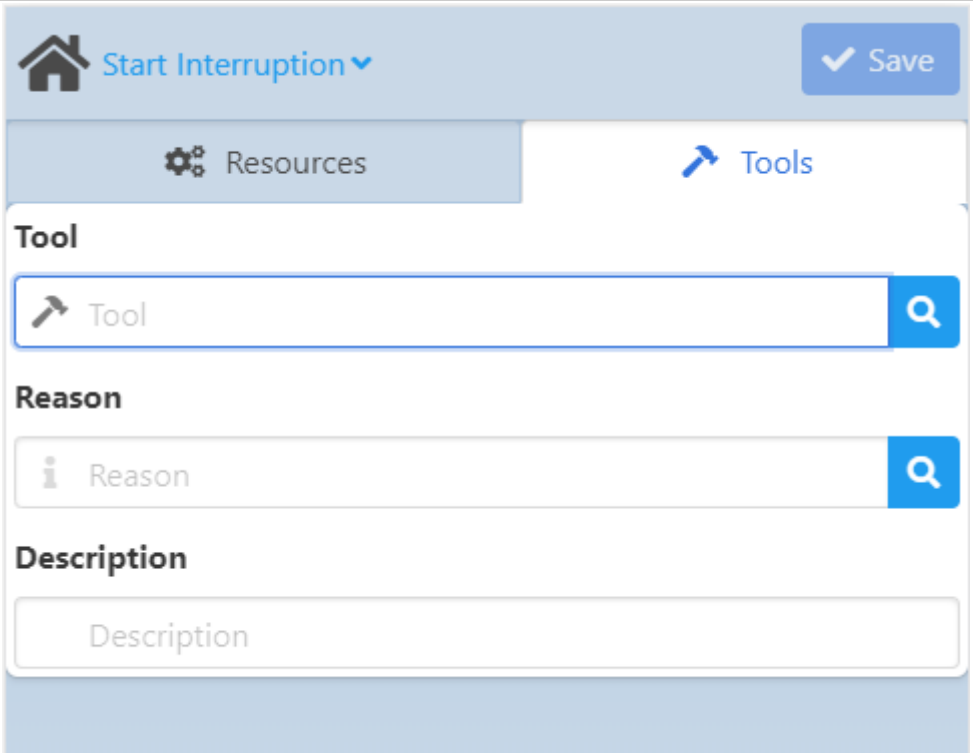
Tools tab

1. Search by tool code or name.

   As you enter the name or code, the app filters the results. Alternatively, use the search icon to display and select from all available tools.

   Only active tools are displayed. Inactive tools are not available.

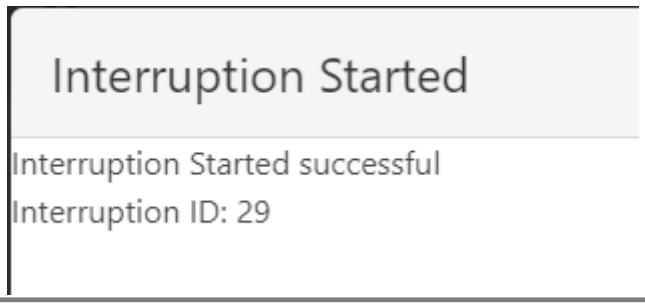
© 2026 Boyum IT Solutions A/S



2. Enter the interruption reason in the *Reason* field or choose from the list, using the search icon.

   After the interruption reason is selected, the description is automatically added, but can be changed if necessary.

3. Click the **Save** button to start the interruption timer.



17.4.24 Stop Interruption

	Browser Support		License Production Data Collection	

The Stop interruption app allows to log the end of an interruption on a resource in the system. This app stops the clock on a logged interruption.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

© 2026 Boyum IT Solutions A/S

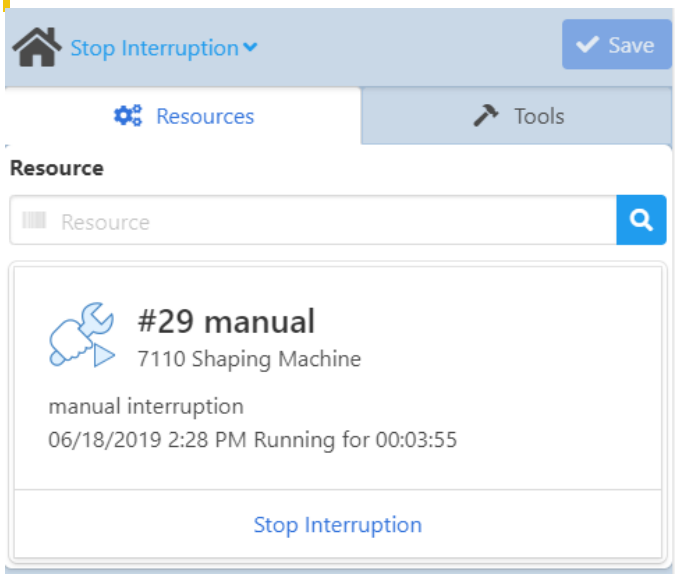
See Configuration wizard settings of the Web Terminal.

There are two tabs available:

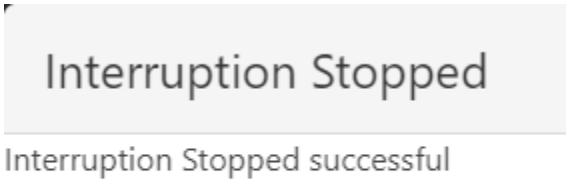
Resource tab

1. Ongoing interruptions are displayed to the user.

   Only the resources that are available to the user are displayed.
   The resources for the user can be selected and set up in Personnel administration > FDC settings.



2. Click the **Stop Interruption** button to start the interruption timer.

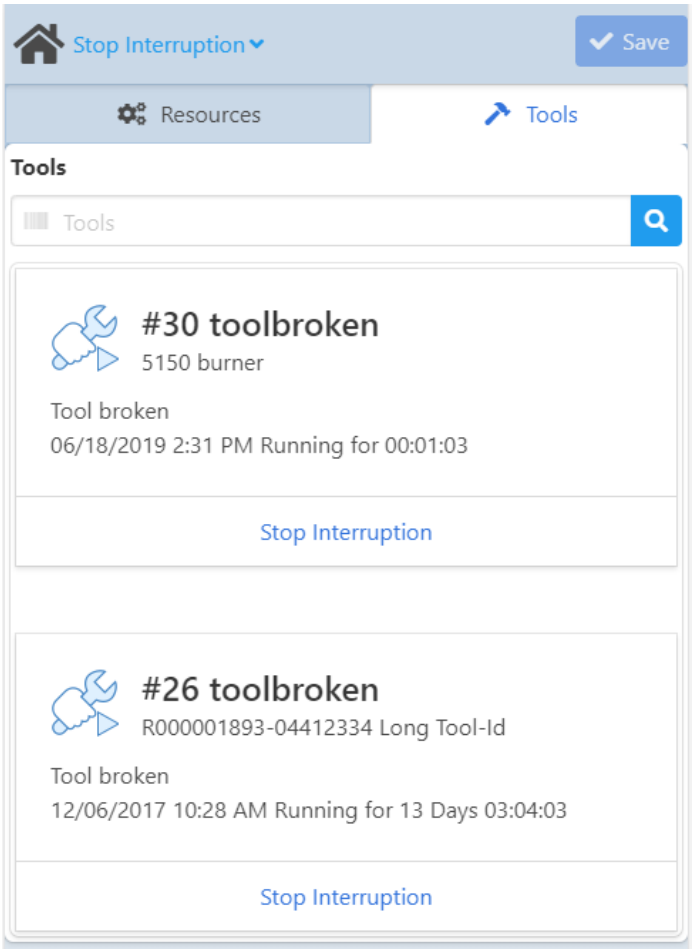


Tools tab

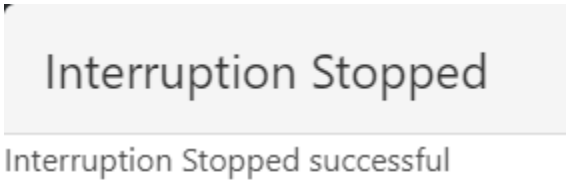
1. Ongoing interruptions are displayed to the user.

   Only the tools that are available to the user are displayed.

© 2026 Boyum IT Solutions A/S



2. Click the **Stop Interruption** button to start the interruption timer.



17.4.25 WO Backflushing

WO Backflushing Work Order Backflushing Issue	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Production Data Collection	Warehouse Support SAP Bin Management Beas Bin Management

© 2026 Boyum IT Solutions A/S

					WMS Bin Management

See detailed information on the Backflushing concept.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Logon/Logoff rules, app setup and other parameters in the Configuration wizard settings of the Web Terminal.

IMPORTANT:

- The pre-assign functionality is only working if the "Automatic Material posting" field is set to "Work Order Backflushing Booking" in the Configuration wizard.

- The parameter "Exceeding planned quantity allowed" production affects the WO Backflushing app. ***See*** Configuration setting.

- The parameter "Issue quantity changeable" is ignored. The system always displays the list of the materials to be issued.

- The parameter "Accept Function 'Adjust and Enter' is ignored. The system does not provide the option to stop or request the issue process when there is no stock for an item.

- The parameter "Behavior at discrepancy of quantity" is ignored and always "allowed", as in the Web solution the system is not locking the modification of the quantities.

Settings:

Time Display

PATH: Administration > System Initialization > Configuration wizard > Terminal and WEB APP > Beas Web Terminal 2.1 > "App Setup".

Select the layout of time-related fields to be displayed in the selected app:
- Time From/To
- Duration
- Time From/To + Duration

Setting is available for WebApps:
WO Time Receipt
WO Backflushing
WO Stop

See also extended App Setup.

© 2026 Boyum IT Solutions A/S

For further system settings ***see*** Backflushing and Booking.

WMS Integration:

Beas Manufacturing WebApps support WMS Batch Attributes.

After inserting a Batch Number, the system checks the mandatory attributes. If such attribute is saved for the batch, the field frame turns red, indicating the missing of mandatory information.

All field types (String, Date, List, Numbers) are supported.

See Batch Extended Information srceen.

WebApp support:

WO Goods Receipt

WO Backflushing

WO Stop

Wo Time Receipt

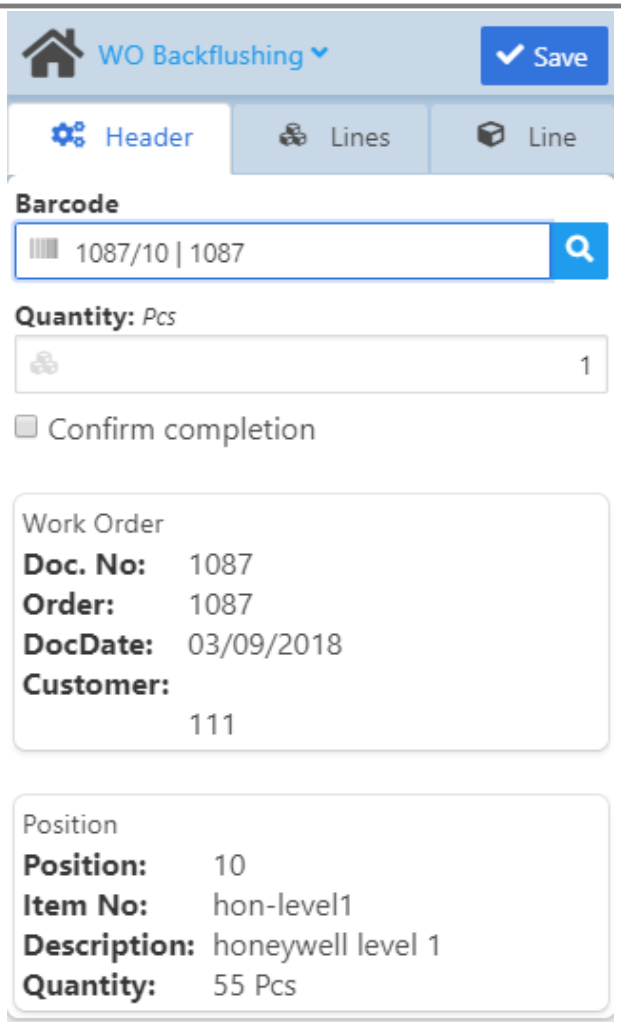
Goods Receipt

Header tab

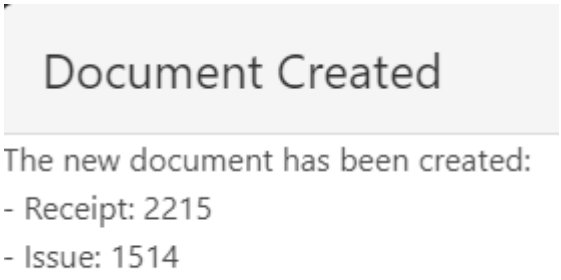
1. Provide the bar code of the WO position (operation) to login. It is possible to scan the bar code of the WO position, or, alternatively, you can use the "Barcode" filter field to find the work order.

Tapping on the magnifying glass icon opens the list of work order positions.

© 2026 Boyum IT Solutions A/S



2. Specify the quantity to be reported.
3. Click the **Save** button to confirm. The Lines and Line tabs are activated for further editing. If no more editing is necessary,
4. click **Save** again: The quantity is issued on the position and a receipt is created.



Field Descriptions

© 2026 Boyum IT Solutions A/S

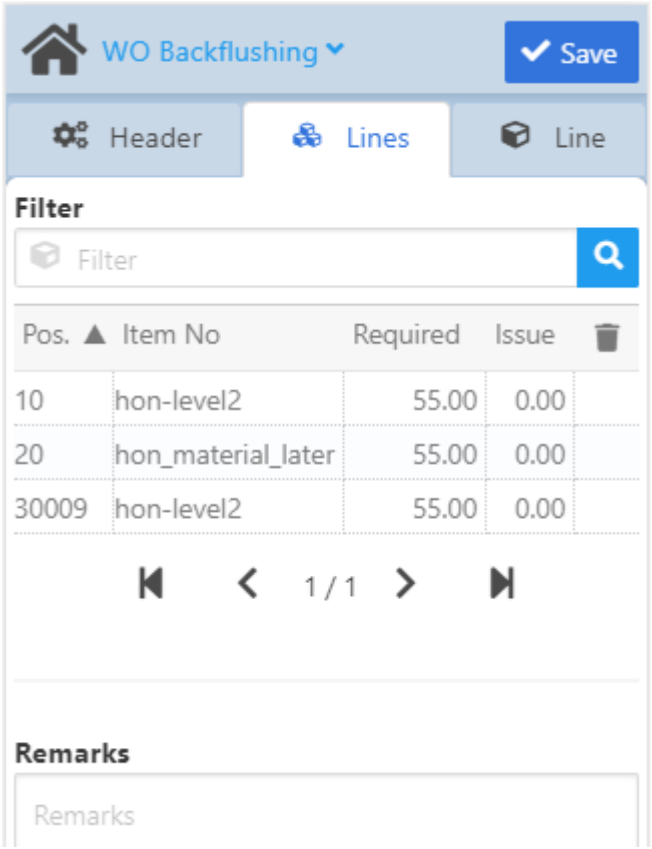
Field / Function	Description
Barcode	Enter barcode of the work order position / Select barcode.
Quantity	Enter quantity to be backflushed.
Partial / Completion / Intermediate	Select one of the options to be performed at booking: - **Partial**: Create a partial time receipt for the operation. - **Completion**: Confirm completion of the operation and close the position. - **Intermediate**: Create an Intermediate report in the Time receipt. The button is visible only if the parameter in the Configuration wizard is left unchecked.
Work order	Work order related information fields (not editable)
Doc. No.	Work order document number.
DocDate	Creation date of the selected work order.
Customer	Customer code.
Position	Work order position related information fields (not editable)
Position	Number of the selected work order position.
Item No.	Item number
Description	Description
Quantity	Required quantity of the item in the selected position. Indicated right of the field name: - pending/total quantity. "Pending" is based on the quantity received for the produced material.

Lines tab

© 2026 Boyum IT Solutions A/S

In this tab you can edit the document by Work order positions.

Click on a line (WO position), and the app will open it automatically in the Line tab for editing.



Field Descriptions

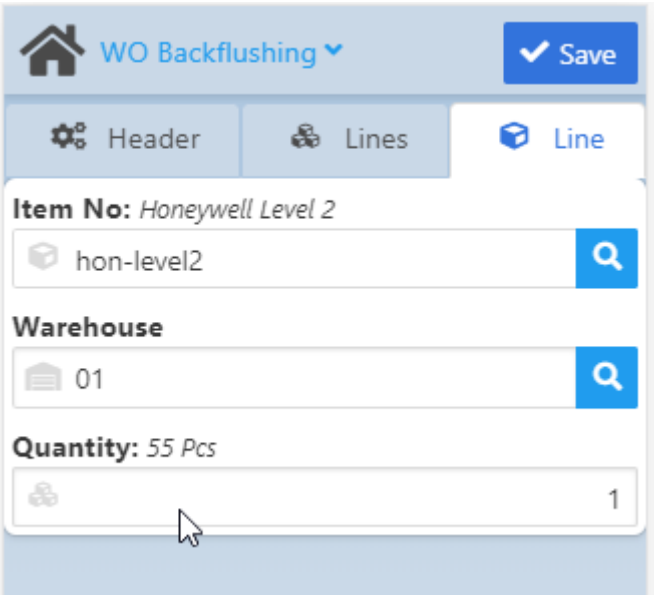
Field	Description
Filter	Search for an item. Note on WMS Quality Status filtering **WMS Integration -** When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS. NOTE: WMS quality status is not defined per serial number. For this reason, all serial numbers of the same LUID will be displayed in the material issue list, even if they have different WMS quality statuses. Only quantity available in an unblocked

© 2026 Boyum IT Solutions A/S

Field	Description
	for production status can be issued. ***See*** further, up-to-date information on WMS-BEAS integration.
Pos.	Work order position
Item No	Item number
WhsCode	Warehouse number
LUID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.
Required	Quantity required by the Work order.
Issue	issued quantity in Production UoM
Remarks	Free text.

Line tab

Edit a line (WO position) for the document. The **Save** button will be inactive until all mandatory fields are filled.



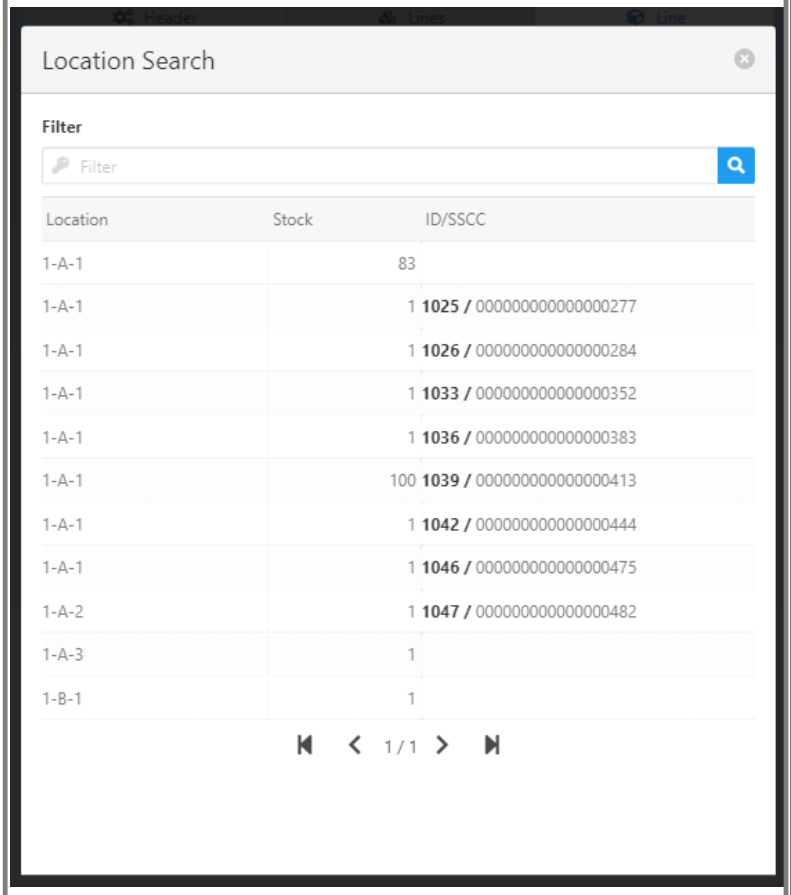
Field Descriptions

Field	Description
Item No	Item number
I-Version	Item version

© 2026 Boyum IT Solutions A/S

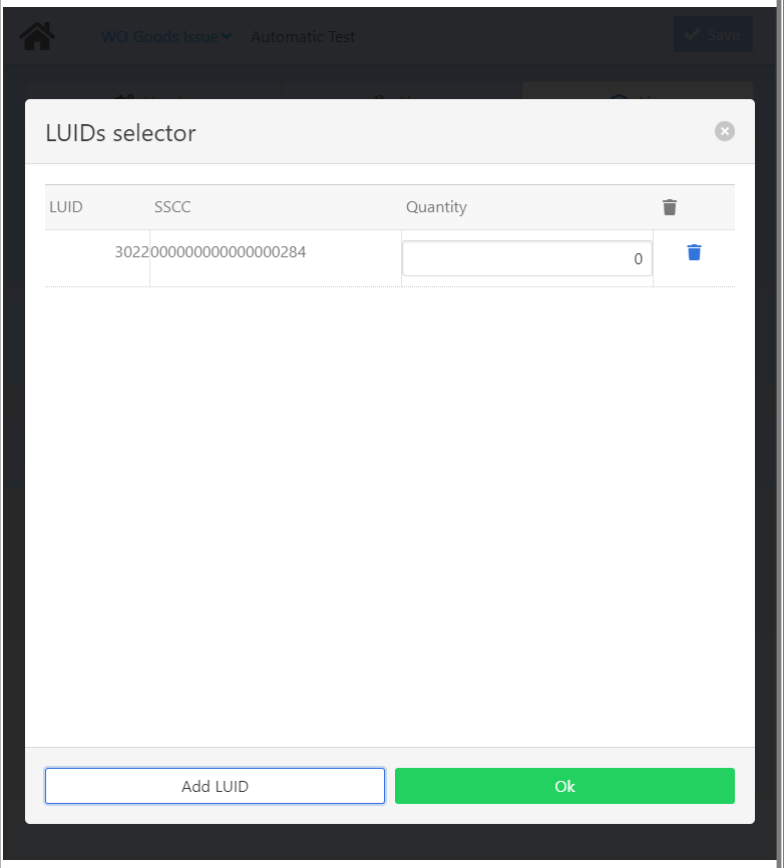
Field	Description
Warehouse	Select Warehouse
Bin Location	When the Warehouse for the item has been selected, this field shows the exact bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. WMS integration - LUID/SSCC support For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when

© 2026 Boyum IT Solutions A/S

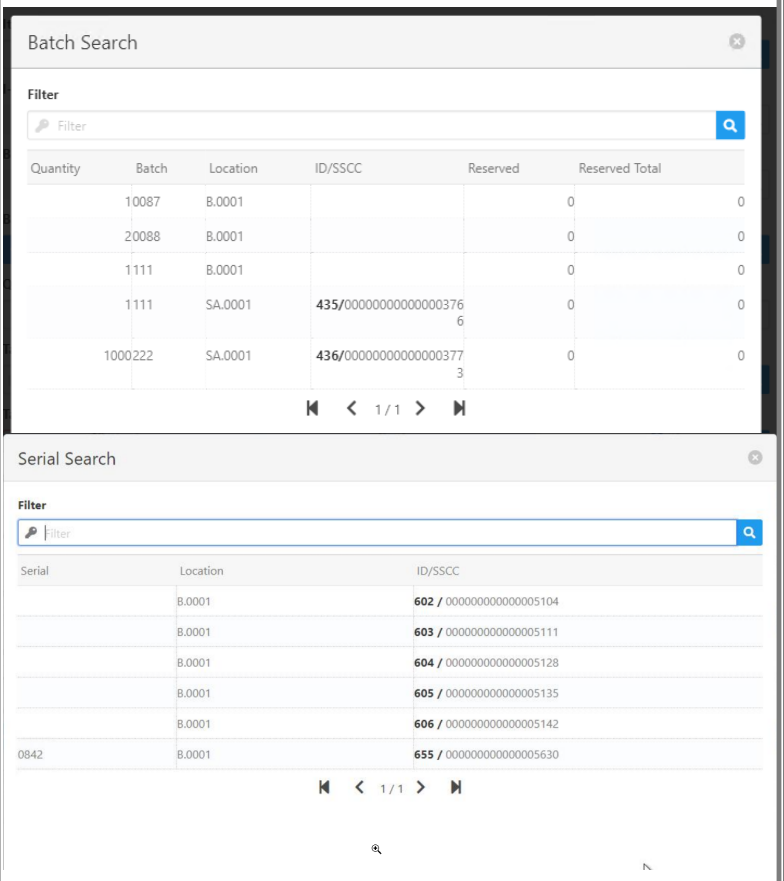
Field	Description
	you tap the magnifying glass icon. 

Field	Description
Location	Bin Location ID
Stock	Available quantity in the bin location
ID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.

© 2026 Boyum IT Solutions A/S

Field	Description
	In case of WMS bin-warehouses, tap the button to open the LUIDs selector screen to provide the LUID and the quantity. The screen allows to select the same item from more than one logistic unit (LUID) at a time.  **Add LUID** button: Add more LUIDs and close the screen with the **OK** button. the available number for the selected item, LUID name and description are indicated in brackets above the field in the Line tab after you close this screen. ***See*** further, up-to-date information on WMS-BEAS integration.
Batch/Serial Number	The magnifying glass opens the Batch/Serial search screen where you can perform further filtering for the name of the

© 2026 Boyum IT Solutions A/S

Field	Description
	batch/serial. The screen shows the names and bin locations of the available batches/serials and displays the WMS LUID/SSCC information. Batch search screen - DETAILS: Open the Batch/Serial Search window with the magnifying glass icon right of the field. After selecting a batch, the LUID and SSCC and the available quantity is displayed in the main app screen, right of the "Batch/Serial Number" field name.  **Field descriptions** **Field** / **Description** Filter — Search for a specific batch. **WMS integration** note: It is possible to filter with

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>LUID/SSCC number.

See SSCC support and further, up-to-date information on WMS-BEAS integration.</td></tr>
<tr><td>Available</td><td>Total available quantity.
WMS integration: This field considers all units available for WMS lock types "Batch", "LUID" and "Detail".</td></tr>
<tr><td>Batch/Serial</td><td>Batch number</td></tr>
<tr><td>Location</td><td>Bin Location number</td></tr>
<tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS)
The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr>
<tr><td>Reserved</td><td>Reserved batch quantity</td></tr>
<tr><td>Reserved Total</td><td>All reserved batch quantity.
WMS Integration: The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".</td></tr>
</table>

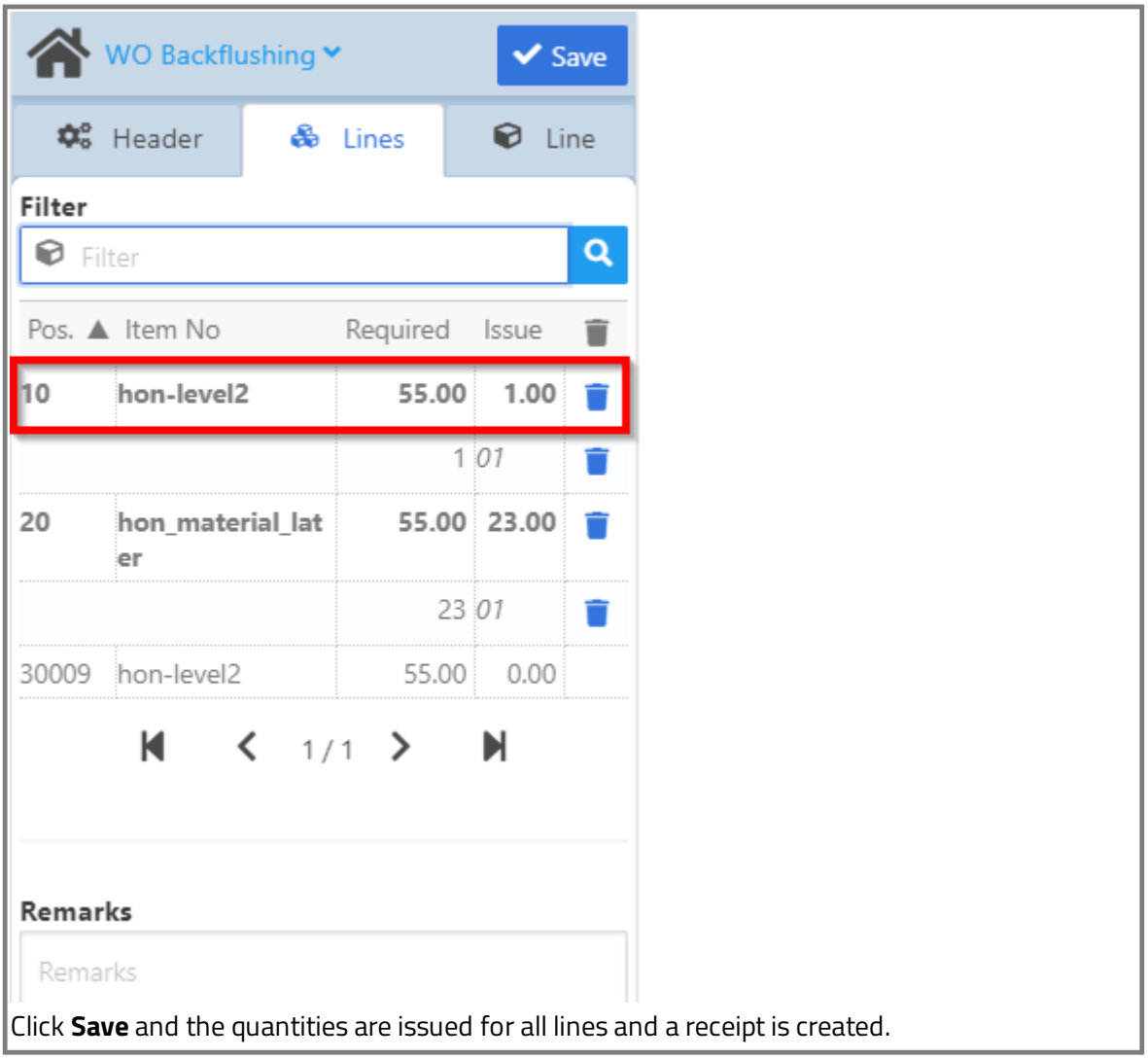
The opens the "Batch/Serials: Extended Information" screen. In this application you can edit Batch/Serial number, Version and Quantity fields. See other, non-editable attributes in Extended information screen.
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Mobile View: The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. **WMS integration:** - In Batch/Serial number field, tap the magnifying glass icon to filter by LUID. Note: It is not possible to do so with the Batch/Serial Extended Information screen. - WMS Batch attributes are supported.
Quantity	Required Quantity . Automatic pre-assign function is supported.

After selecting the quantity to be backflushed, you can go back to the Lines tab to see the overview of all work order positions and/or delete a line from the document:

© 2026 Boyum IT Solutions A/S



Click **Save** and the quantities are issued for all lines and a receipt is created.

Limitations:

The following features/functions are NOT supported:

- Receipt over midnight
- Receipt for negative positions
- Pool functions
- Backflush Master-Slave
- Scrap material posting
- Scrap: Change reason
- Intermediate report
- Logon/Logoff rules

© 2026 Boyum IT Solutions A/S

- Open QC Order after transaction
- The Attendence linking configuration setting

17.4.26 WO Material Reservation

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Material Management (Issue, Receipt, Allocation)	Warehouse Support SAP Bin Management Beas Bin Management WMS Bin Management	Print Document

With this app you can display and create a material reservation for a work order in Beas.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

See App Setup.

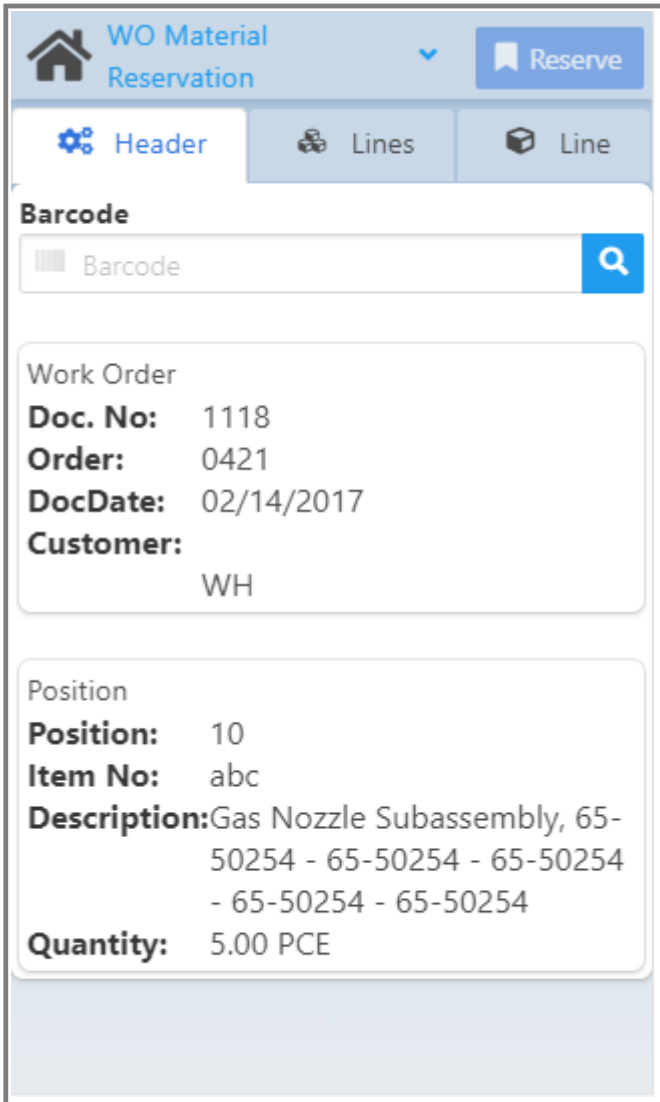
Note: For this feature, the reservation system has to be activated.

Reservation from a Sales order will not be provided because it is part of the Reservation in the SAP client > Sales Order and used with access to Beas license, and available in the the WebApps using Picking functionality.

Header tab

In the Barcode field, you can search for a work order position to which you would like to reserve material quantities. You can scan the barcode or tap the magnifying glass to enter the WO Position Search filtering screen.

© 2026 Boyum IT Solutions A/S



Field Descriptions

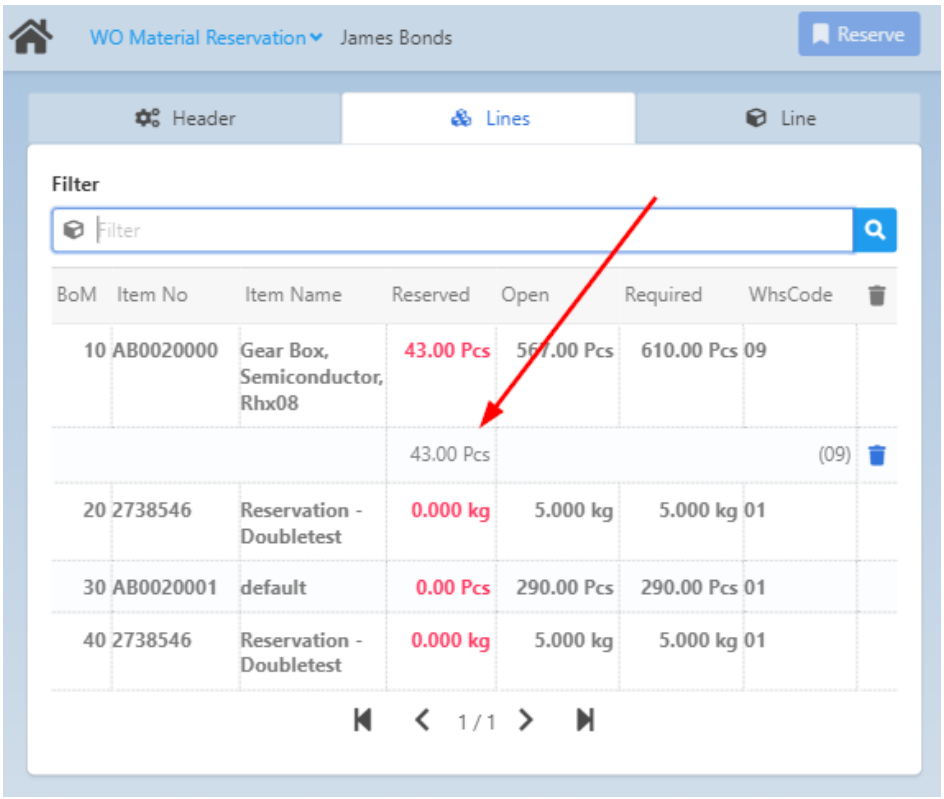
Field	Description
Barcode	Barcode of the work order position / Select barcode.
Work order	*Work order related information fields (not editable)*
Doc. No.	Work order document number.
Order	Work order number
DocDate	Creation date of the selected work order.
Customer	Customer code.

© 2026 Boyum IT Solutions A/S

Field	Description
Position	*Work order position related information fields (not editable)*
Position	Number of the selected work order position.
Item No.	Item number
Description	Description
Quantity	Quantity for the finished product

Lines

The Lines tab contains the open work order positions of the selected work order.
Click on a line (position) to add quantities to be reserved. If there is any previously reserved quantity, it it displayed as well (***see*** image below).



Field Descriptions

Field	Description
Filter	Search for an item. Note on WMS Quality Status filtering

© 2026 Boyum IT Solutions A/S

Field	Description
	WMS Integration - When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS. NOTE: WMS quality status is not defined per serial number. For this reason, all serial numbers of the same LUID will be displayed in the material issue list, even if they have different WMS quality statuses. Only quantity available in an unblocked for production status can be issued. ***See*** further, up-to-date information on WMS-BEAS integration.
BoM	Bill of Materials position
Item No	Item number
Item Name	Name of the item
Reserved	Quantities already reserved. ▪ Red: when Open Quantity is > 1 ▪ Green= When open Quantity is 0 ▪ Yellow= When open Quantity is < 0 (negative) when reserved more than planned.
Open	Open quantities
Required	Quantity required by the work order
WhsCode	Warehouse Code
LUID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold

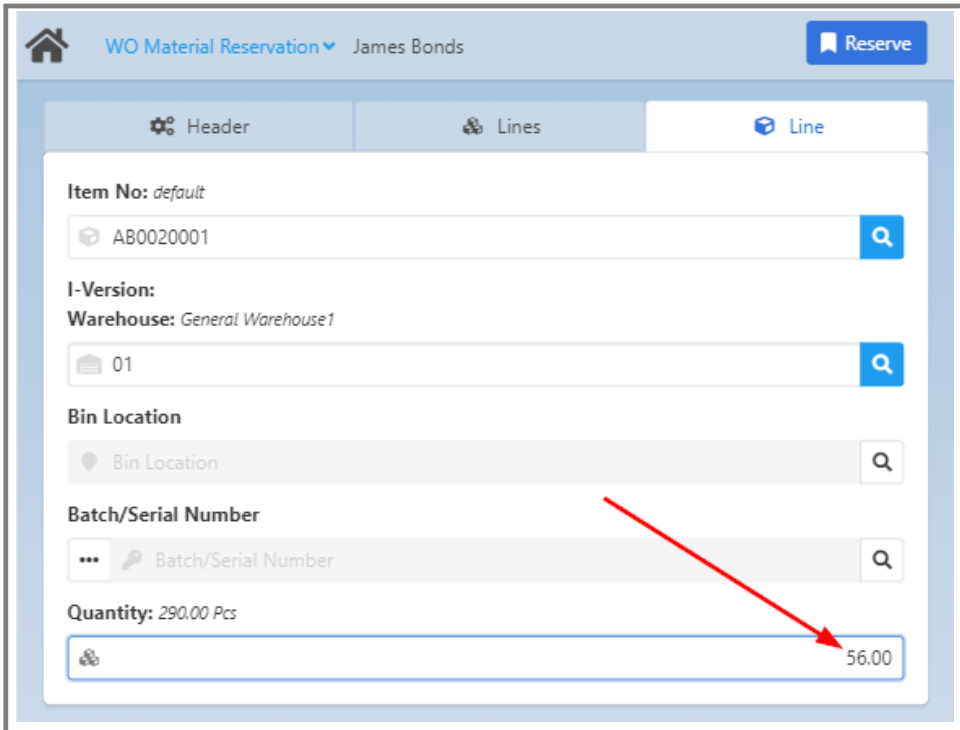
© 2026 Boyum IT Solutions A/S

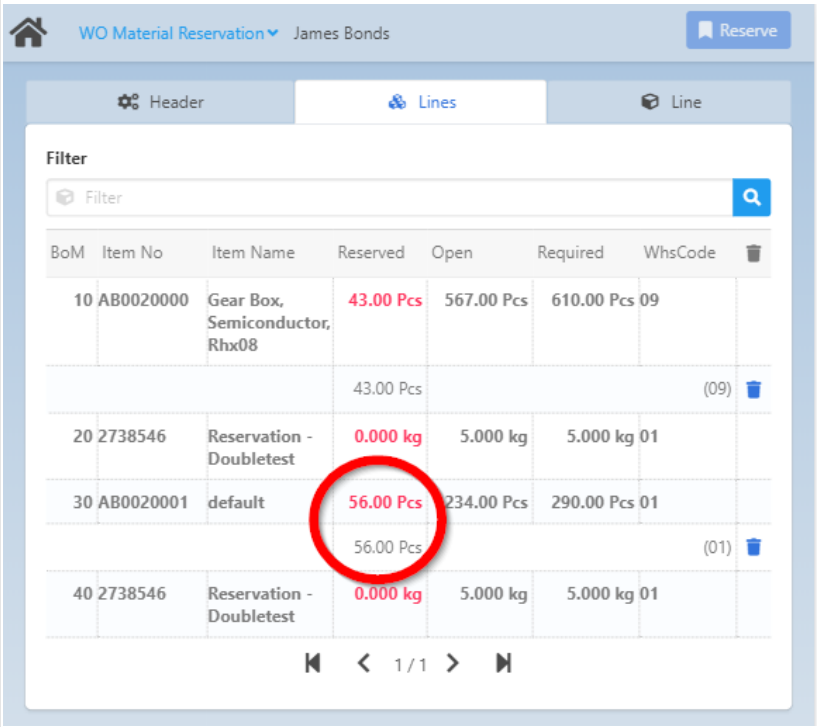
Field	Description
	figures. The second ID after the slash is the SSCC.

Line

After adding the quantity, click on **Reserve**, and the app switches back to the Lines tab. The reserved quantity is indicated in a secondary line below the main one. The secondary line contains information on Bin location / Batch or Serial / Quantity / and has the Delete icon.

© 2026 Boyum IT Solutions A/S





Reserve button: Reserve material quantities provided in the Quantity field in the Line tab. Clicking on it creates the reservation in Beas, and the screen switches back to the Lines tab to select further positions.

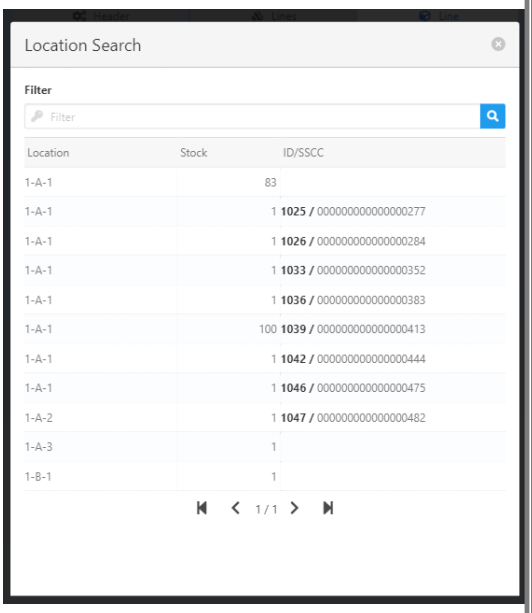
Note: Automatic allocation is not supported.

© 2026 Boyum IT Solutions A/S

Field descriptions

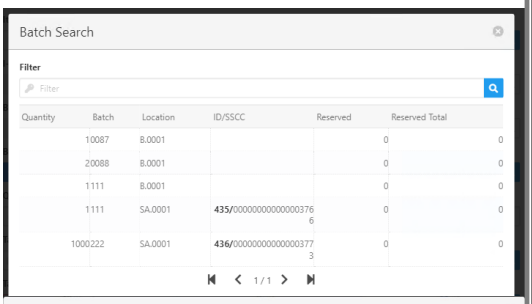
Field	Description
Item No	Item number
I-Version	Item version
Warehouse	Select warehouse
Bin Location	When the Warehouse for the item has been selected, this field shows the exact bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field. **Mobile View:** The field is only visible if the field is required. **Desktop / Tablet View:** The field is non-editable if the field is not required. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not

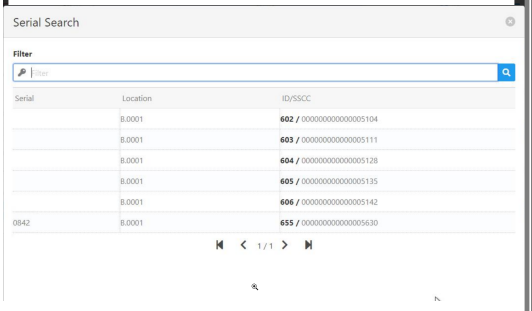
© 2026 Boyum IT Solutions A/S

Field	Description
	possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. WMS integration - LUID/SSCC support For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when you tap the magnifying glass icon.  **Field** / **Description** Location — Bin Location ID Stock — Available quantity in the bin location ID/SSCC — Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>bold figures. The second ID after the slash is the SSCC.</td></tr>
</table>
</td></tr>
<tr><td>Batch/Serial Number</td><td>Batch/serial number.

Batch search screen - DETAILS:
Open the Batch/Serial Search window with the magnifying glass icon right of the field. After selecting a batch, the LUID and SSCC and the available quantity is displayed in the main app screen, right of the "Batch/Serial Number" field name.




Field descriptions
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Filter</td><td>Search for a specific batch.</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Field</th><th>Description</th></tr><tr><td></td><td>**WMS integration** note: It is possible to filter with LUID/SSCC number. ***See*** SSCC support and further, up-to-date information on WMS-BEAS integration.</td></tr><tr><td>Available</td><td>Total available quantity. **WMS integration:** This field considers all units available for WMS lock types "Batch", "LUID" and "Detail".</td></tr><tr><td>Batch/Serial</td><td>Batch number</td></tr><tr><td>Location</td><td>Bin Location number</td></tr><tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr></table>

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Reserved</td><td>Reserved batch quantity</td></tr>
<tr><td>Reserved Total</td><td>All reserved batch quantity.
WMS Integration: The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".</td></tr>
</table>

See also Batch/Serial Extended Information screen.
WMS integration: Tap the magnifying glass icon to filter by LUID.
Note: It is not possible to do so with the Batch/Serial Extended Information screen.</td></tr>
<tr><td>Quantity</td><td>Reserved quantity.
Note: Automatic pre-assign function is not supported.</td></tr>
</table>

17.4.27 Reservation List

<table>
<tr>
<td>
</td>
<td></td>
<td>Browser Support</td>
<td></td>
<td>License
Material Management (Issue, Receipt, Allocation)</td>
<td>Warehouse Support
SAP Bin Management
Beas Bin Management
WMS Bin Management</td>
</tr>
</table>

With this app you can view a list of all material reservations and check all relevant details thereof.

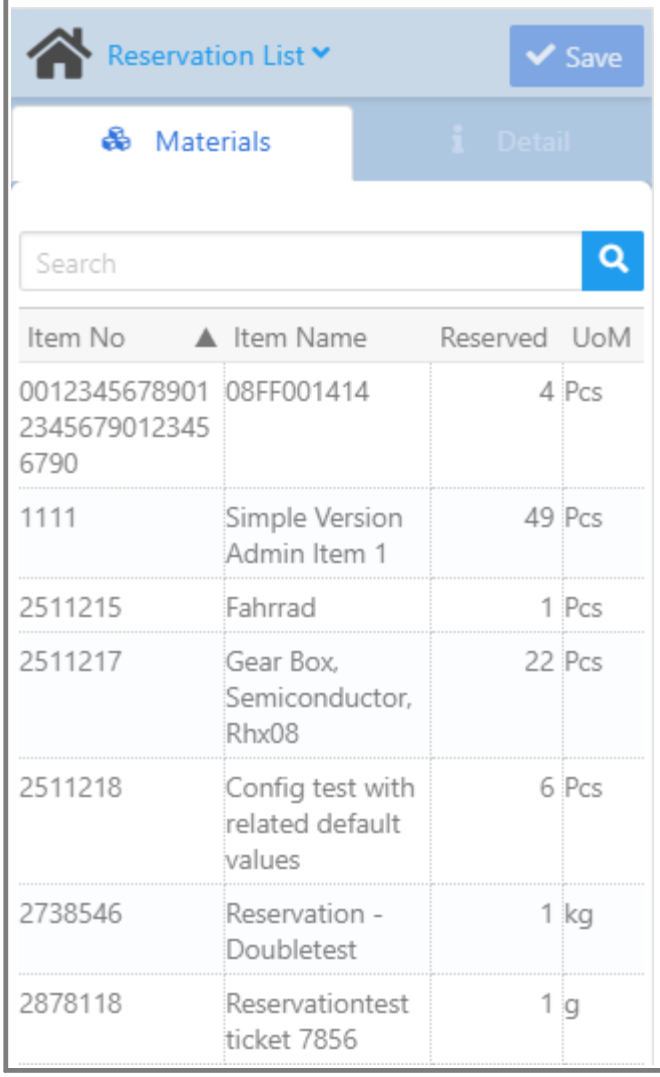
© 2026 Boyum IT Solutions A/S

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

Materials

Use the Search filter or scroll the list to select an item reservation to view (***see*** image below).

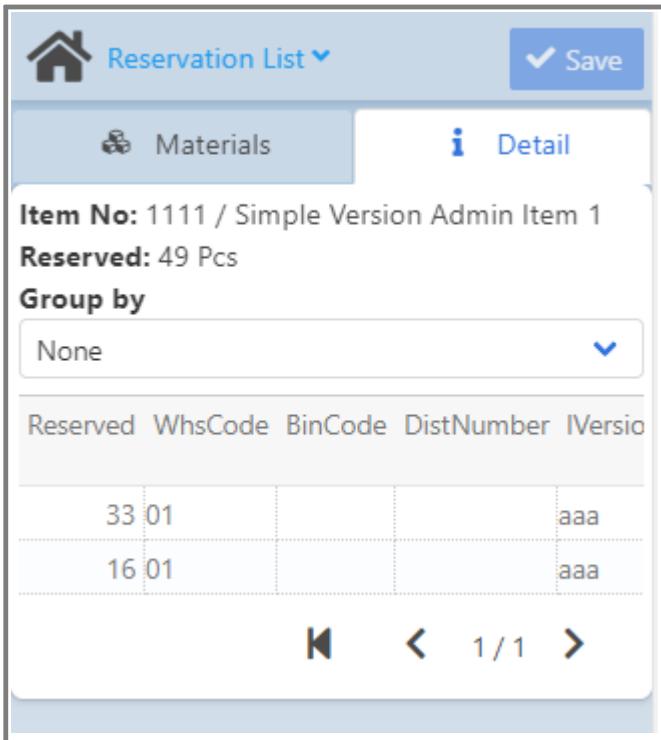


Item No	Item Name	Reserved	UoM
00123456789012345679012345 6790	08FF001414	4	Pcs
1111	Simple Version Admin Item 1	49	Pcs
2511215	Fahrrad	1	Pcs
2511217	Gear Box, Semiconductor, Rhx08	22	Pcs
2511218	Config test with related default values	6	Pcs
2738546	Reservation - Doubletest	1	kg
2878118	Reservationtest ticket 7856	1	g

Detail

In this tab you can list reservations grouped by warehouses/Batch-serial information/bin locations.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Descriptions
Item No	Item number
Reserved	All reserved quantities for the selected item **WMS integration:** This field also considers all WMS reservations for locking types Batch, LUID and Detail.
Group by	**None**: reserved quantities are displayed without grouping **Warehouse**: reserved quantities are displayed by warehouses
Reserved	Reserved quantity by work order
Locking level	All supported WMS reservation types are displayed: Batch, LUID and Detail.
WhsCode	Warehouse code
BinCode	Bin Location code
LUID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in

© 2026 Boyum IT Solutions A/S

Field	Descriptions
	bold figures. The second ID after the slash is the SSCC.
DistNumber	Batch or serial number information
IVersion	Item version
Type	Type of document
DocEntry	Document number
LN 1	Line number
LN 2	Line number

Reservation Line Detail

Select a line in the Detail tab to see all relevant details of that reservation:

© 2026 Boyum IT Solutions A/S

Field descriptions

Field	Description
Reserved	Reserved quantity for the current line
Warehouse	Warehouse code
Bin Code	Bin Location

© 2026 Boyum IT Solutions A/S

Field	Description
Batch / Serial number	Batch/Serial number information
Version	Item version
Document ID	Document number
LineNumber	Line number
Reservation Type	Type of the reservation: S = Stock P = Pre-reservation, meaning it is linked with a Sales order: when stock is available, Beas converts this into a real reservation.
BaseType	
BaseDocEntry	
BaseLineNumber (2)	
LinkType	Link Type
LinkDocEntry	Linked document number
LinkLineNumber (2)	Link link number
Locking Level	Locking level: Batch, LUID, Detail

Tap **OK** to go back to the Detail tab.

17.4.28 Allocation

Optimized for Zebra Scanner

Browser Support

Bar code Support

License Material Management (Issue, Receipt, Allocation)

Warehouse Support
SAP Bin Management
Beas Bin Management
WMS Bin Management

Print Document

With this application you can create an allocation and transfer the quantities to the allocation warehouse.

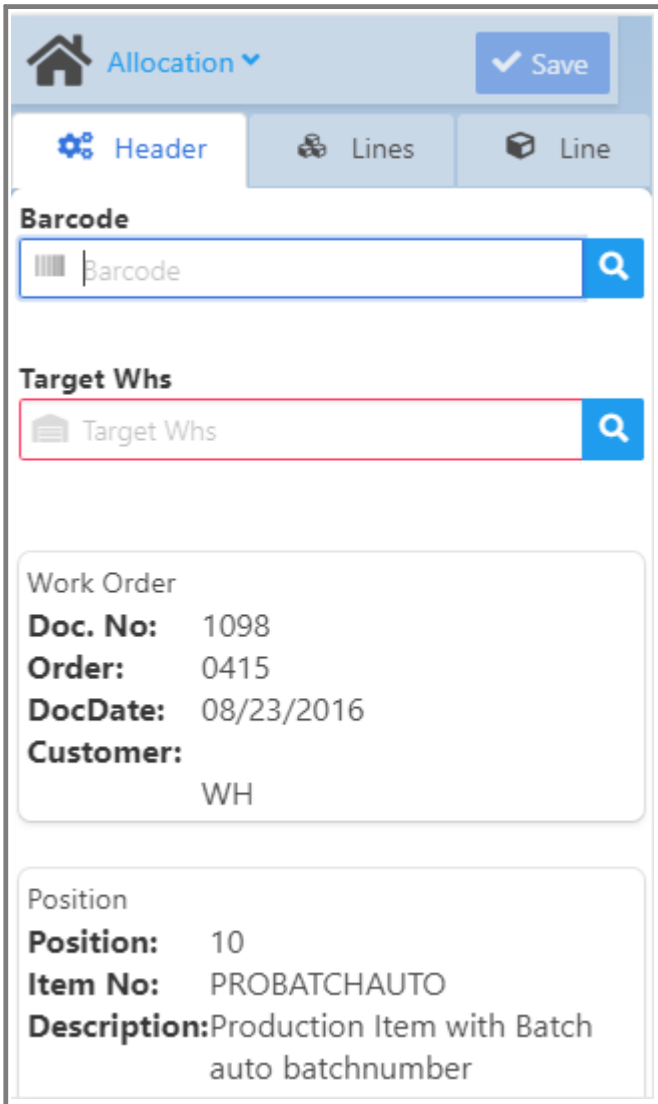
See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

See App Setup.

© 2026 Boyum IT Solutions A/S

Header

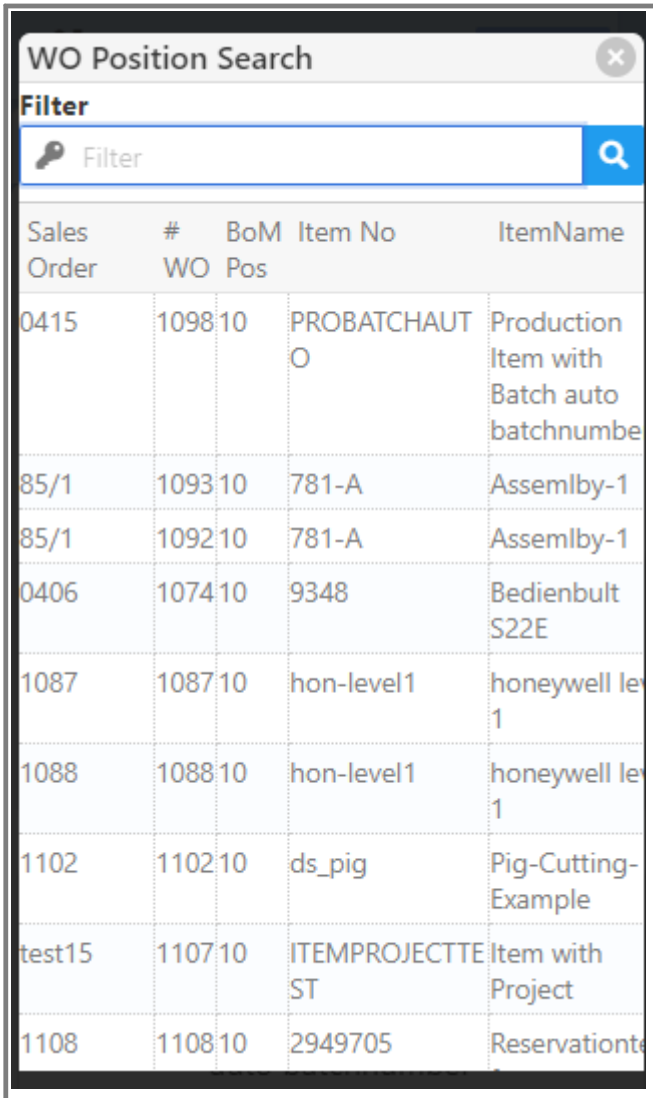


Scan the Bar code of the Work order position, or use the magnifying glass icon to select a position from the list in the "WO Position Search" filter.

See Field descriptions.

The "WO Position Search" filter displays information regarding the linked Sales Order, the WO number, BoM position, Item number and Item name:

© 2026 Boyum IT Solutions A/S

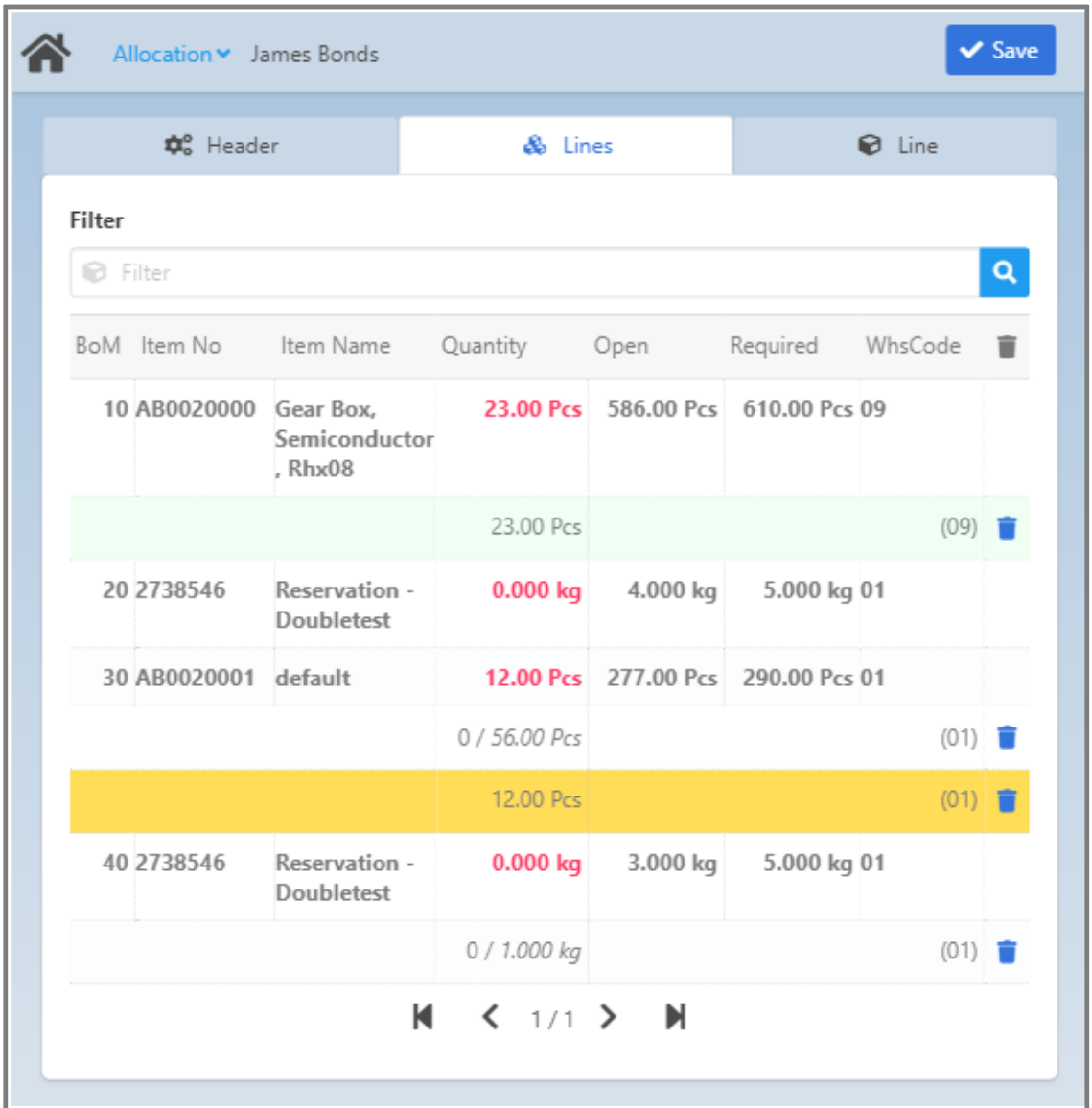


After selecting the WO position, you have to select the Target warehouse for the allocation transfer. Once you select it, the app switches to the Lines tab.

Lines

In this tab you can click on an item to add the quantities to allocate.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Description
Filter	Search for an item. Note on WMS Quality Status filtering **WMS Integration -** When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for

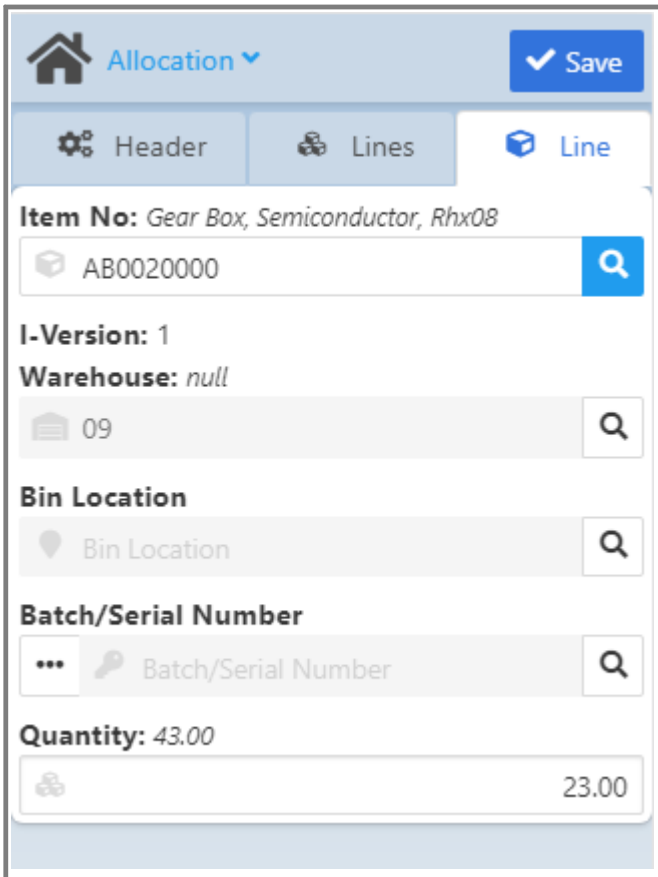
© 2026 Boyum IT Solutions A/S

Field	Description
	production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS. NOTE: WMS quality status is not defined per serial number. For this reason, all serial numbers of the same LUID will be displayed in the material issue list, even if they have different WMS quality statuses. Only quantity available in an unblocked for production status can be issued. ***See*** further, up-to-date information on WMS-BEAS integration.
BoM	Bill of Materials position
Item No	Item number
Item Name	Name of the item
Reserved	Quantities already reserved. ▪ Red: when Open Quantity is > 1 ▪ Green= When open Quantity is 0 ▪ Yellow= When open Quantity is < 0 (negative) when reserved more than planned.
Open	Open quantities
Required	Quantity required by the work order
WhsCode	Warehouse Code
LUID/SSCC	Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.

Line

This tab opens automatically when you select an item in the Lines tab.

© 2026 Boyum IT Solutions A/S



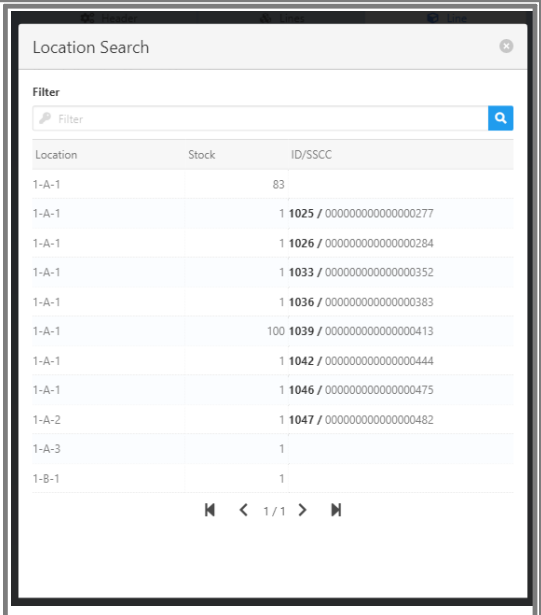
Field descriptions

Field	Description
Item No	Item number
I-Version	Item version
Warehouse	Select warehouse
Bin Location	When the Warehouse for the item has been selected, this field shows the exact bin location (if available). In case of a batch/serial-managed item, this field is automatically filled by the system after selecting the batch/serial in the Batch/Serial Number field. **Mobile View:** The field is only visible if the field is required.

© 2026 Boyum IT Solutions A/S

Field	Description
	Desktop / Tablet View: The field is non-editable if the field is not required. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. WMS integration - LUID/SSCC support For normal items, select the Produmex WMS logistic unit of your choice in the "Location Search" screen that opens when you tap the magnifying glass icon.

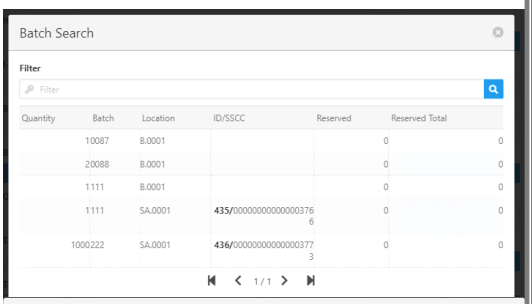
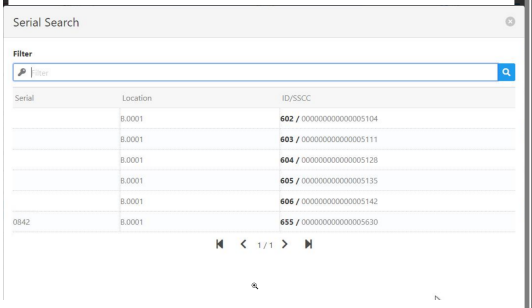
© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>


<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td>Location</td><td>Bin Location ID</td></tr>
<tr><td>Stock</td><td>Available quantity in the bin location</td></tr>
<tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr>
</table>
</td></tr>
<tr><td>Batch/Serial Number</td><td>Batch/serial number.

Batch search screen - DETAILS:
Open the Batch/Serial Search window with the magnifying glass icon right of the field. After selecting a batch, the LUID and</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	SSCC and the available quantity is displayed in the main app screen, right of the "Batch/Serial Number" field name.   **Field descriptions** **Field** / **Description** Filter — Search for a specific batch. **WMS integration** note: It is possible to filter with LUID/SSCC number. ***See*** SSCC support and further, up-to-date information on WMS-BEAS

© 2026 Boyum IT Solutions A/S

Field	Description
	<table><tr><th>Field</th><th>Description</th></tr><tr><td></td><td>integration.</td></tr><tr><td>Available</td><td>Total available quantity. **WMS integration:** This field considers all units available for WMS lock types "Batch", "LUID" and "Detail".</td></tr><tr><td>Batch/Serial</td><td>Batch number</td></tr><tr><td>Location</td><td>Bin Location number</td></tr><tr><td>ID/SSCC</td><td>Logistic Unit / SSCC information (WMS) The logistic unit ID is displayed in front in bold figures. The second ID after the slash is the SSCC.</td></tr><tr><td>Reserved</td><td>Reserved batch quantity</td></tr><tr><td>Reserved Total</td><td>All reserved batch quantity. **WMS Integration:** The quantity considers all WMS locks of supported types "Batch", "LUID" and "Detail".</td></tr></table> ***See*** also Batch/Serial Extended Information screen.

© 2026 Boyum IT Solutions A/S

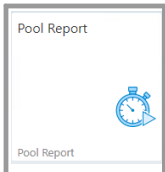
Field	Description
	WMS integration: Tap the magnifying glass icon to filter by LUID. Note: It is not possible to do so with the Batch/Serial Extended Information screen.
Quantity	Reserved quantity. Note: Automatic pre-assign function is *not* supported.

After inserting all required information, click the **Save** button to finalize and create the allocation.

- Limitation

Work orders without routing position are currently not supported. ***See*** Activity Log. WO without Routing position / only external operations are not supported.

17.4.29 Pool Report

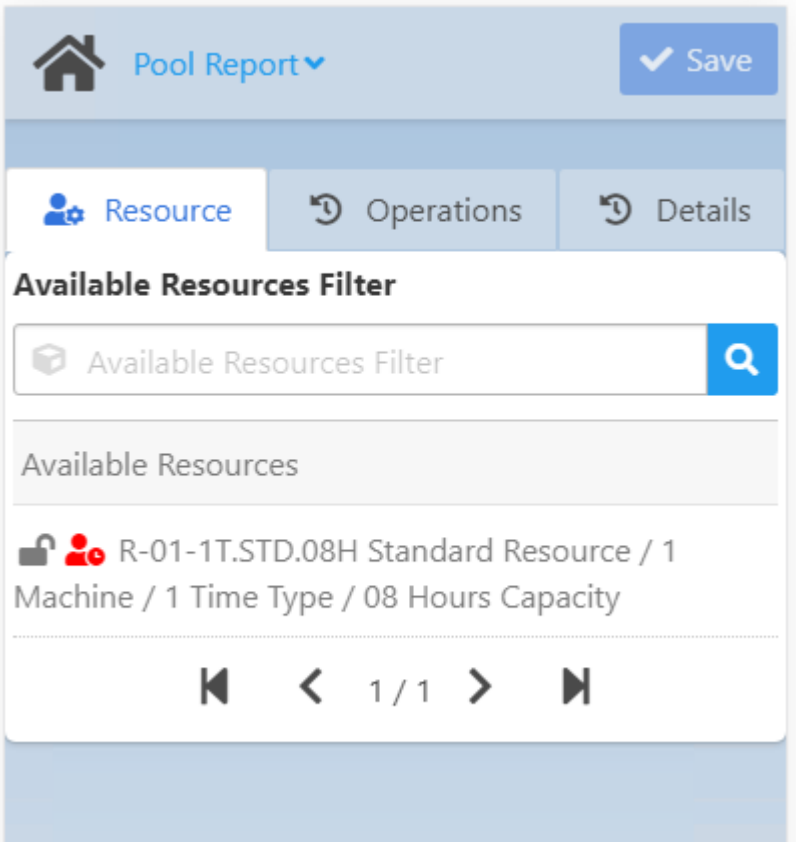
	Optimized for Zebra Scanner	Browser Support		License Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license	

This app makes it possible to create a Pool report.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

© 2026 Boyum IT Solutions A/S



Logon mask icons - descriptions

Logon mask icons	
Icon	**Description**
(red)	In WO Start: A user (current or other) has already logged in to/ started the operation. In Pool Report: Current user is logged into the operation.
(gray)	No user has logged in to the operation yet.
(orange)	Available in WebApp Pool Report. Another user has logged into the operation.
	Open: resource is available
	Locked: If used for other running activity and Resource Option "Single operator per operation sequence" is active.
	Available in WebApp Pool Report.

© 2026 Boyum IT Solutions A/S

Icon	Description
	Red: Not enough material to complete the work order. Gray: Material is enough to complete the work order. Note: The system displays this only if it is activated in the configuration.
	Interruption is active.

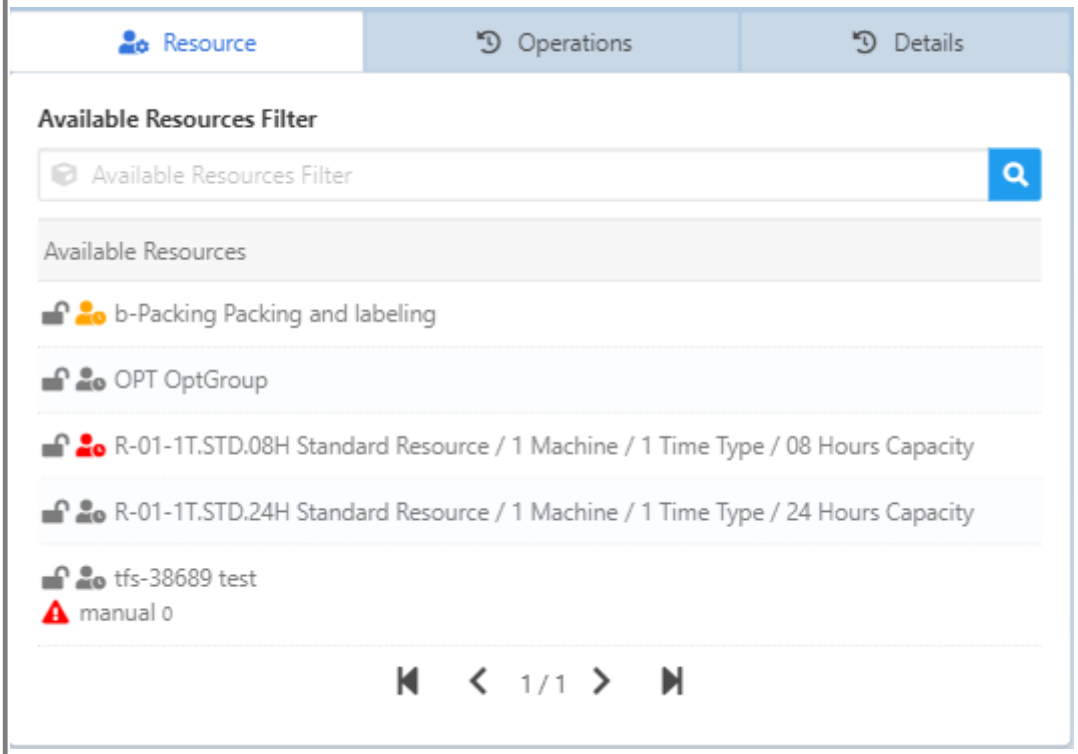
TABS:

Resource

This first tab displays all resources of the current Pool list.
The system reloads the list only if the app is started or if you select "Reload the application" in the WebApp Header, because the calculation of Pool report can take time. ***See*** Performance.
See Logon mask icon descriptions above in this chapter.

Select a Resource from the "Available Resources Filter".

The filter is applied with "Enter" or pressing the search (button; auto-complete function is not supported.



After selecting the resource, the app switches to the next tab.

Note: If you switch to other tabs, the system does not reload the pages.

© 2026 Boyum IT Solutions A/S

IMPORTANT: Multi-logon/off of resources is not possible in the WebApp version.

Operations

This tab displays all operations of the pool report and the resource selected in the first tab "Resource".

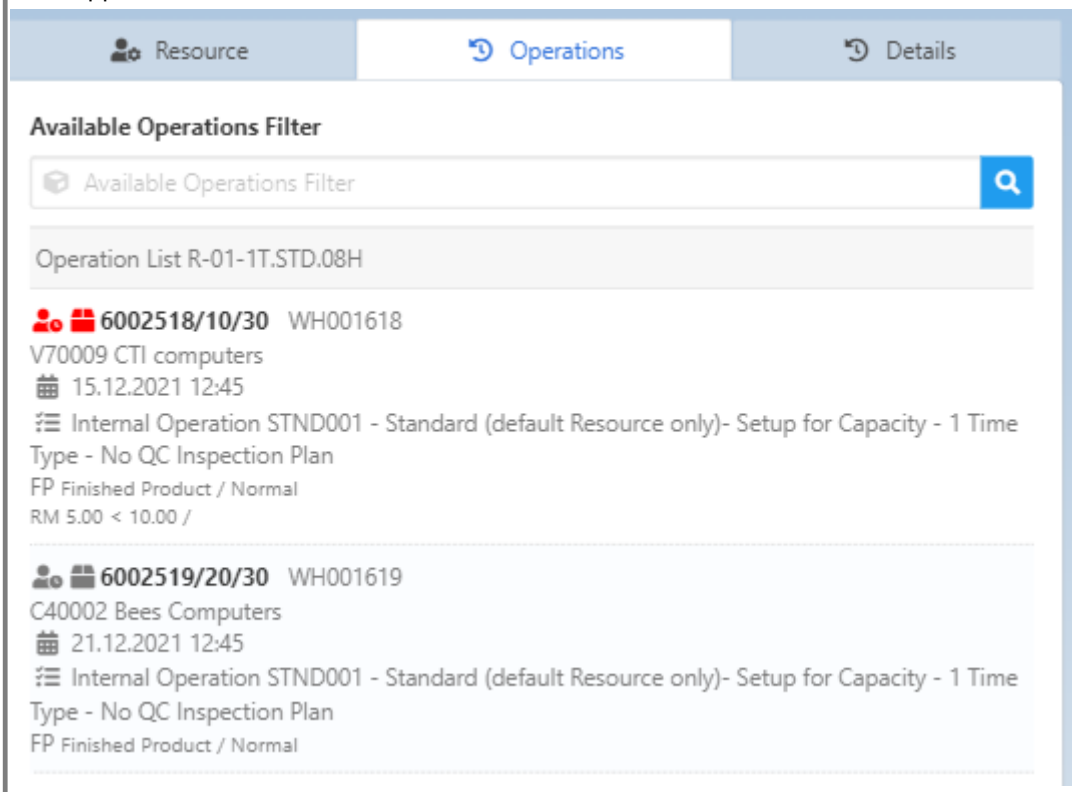
Select an operation from the "Available Operations Filter"

You can search by:

- Document Number
- Order Number
- Operation Bar code

Note: You must type the complete Order number or bar code. Document number can be typed partially to provide search hits.

The filter is applied with "Enter" or pressing the search (button; auto-complete function is not supported.



After you select the resource, the system displays the Operation list. The operations are sorted according to predetermined pool priority (working identically in the Desktop Terminal version):

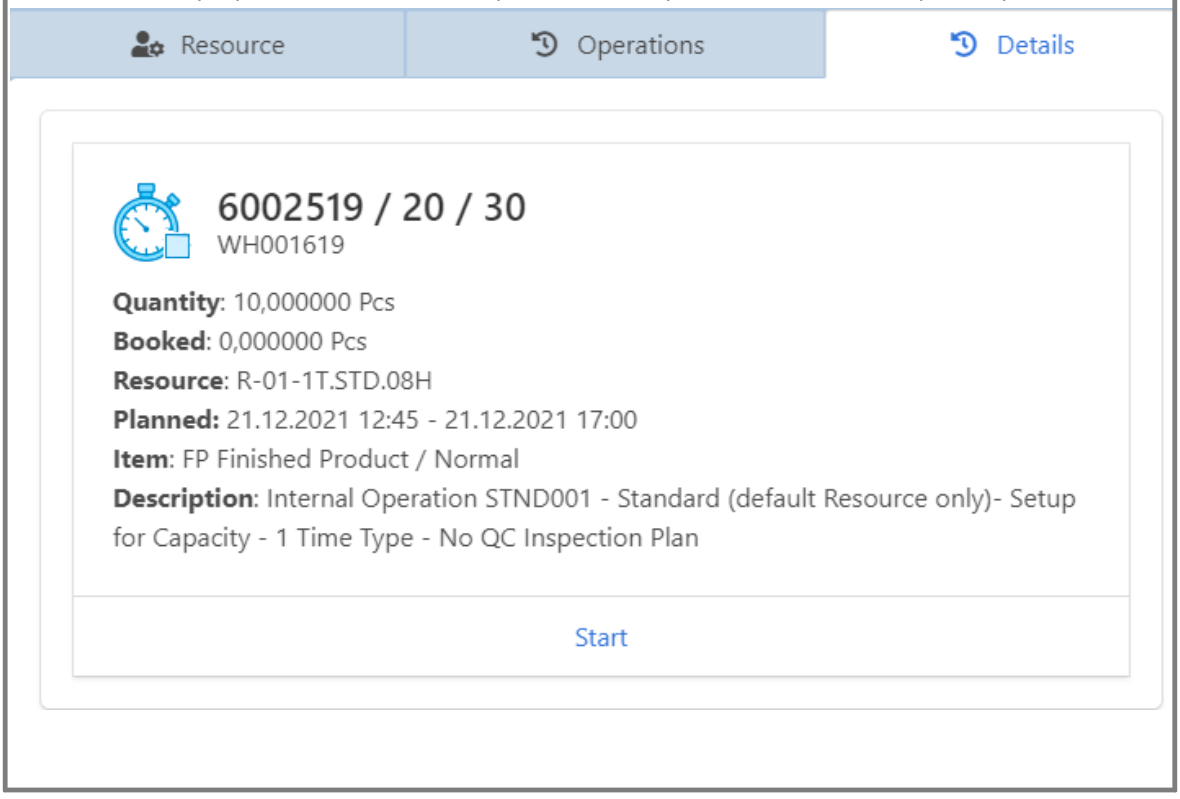
© 2026 Boyum IT Solutions A/S

"Operation List" entry details

Information	Example (*see* above image)
Icons	***See*** Logon mask icon descriptions above in this chapter.
Work order document / Position / Routing position and WO number	600218/10/30 and WH001618
Customer ID and Name	V70009 and CTI Computers
Planned Start Date and Time	15.12.2021 and 12:45
Operation description	Internal Operation STND001 - Standard (default Resource only) - Setup for Capacity - 1 Time Type - No QC Inspection Plan
Item and Item Name	FP Finished Product/Normal
Material check	RM 5.00 < 10.00 / NOTE: Only visible if the parameter is enabled and if there is not enough material.

Details

This last tab displays the details of the Operation, and you can start and stop the operation.

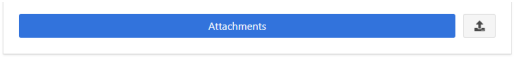


© 2026 Boyum IT Solutions A/S

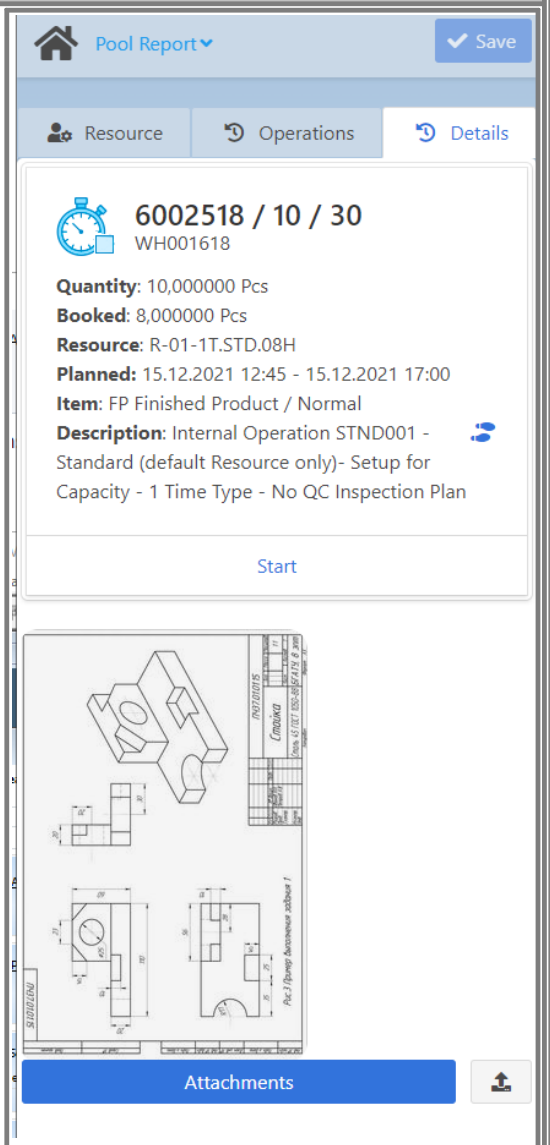
Field / function descriptions

Field / function	Description
example: 6002519 / 20 / 30 and WH001619	WO document number, WO position, Operation and Work order Number
Quantity	Planned Quantity in Warehouse unit
Booked	Booked Quantity in Warehouse unit
Resource	Planned resource. If the operation is started, the system displays the resource defined in the Logon Process.
Planned	The planned Start/Stop date time
Running since	The Start Date time and running time (only if started)
Item	The Item Number and Item Name
Description	The description of Operation. If instructions are available, the system displays a running icon. If you click on it, the app displays the instructions.
Start button	If the Operation is not started, the app displays "Start" Press Start button **IF:** - The resource is a Resource group, or the resource supports time types: the system switches to "WO Start" App and you can insert all necessary information. After starting the operation, the system goes back to the Pool Report - Details TAB - otherwise the system starts the operation directly.
Stop button	Press Stop button The system opens WebApp "WO Stop" and you can insert all necessary information. After this, the system goes back to **Pool report > Resource TAB**.

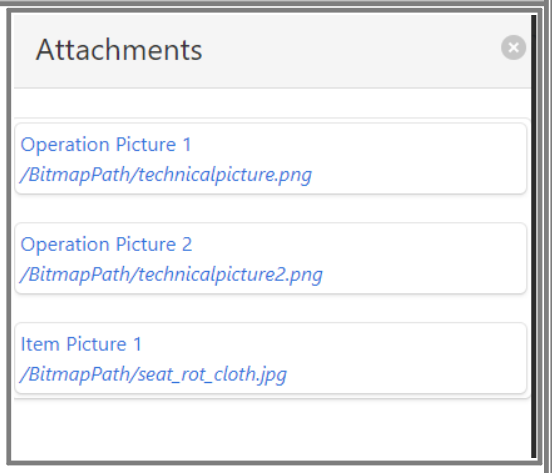
© 2026 Boyum IT Solutions A/S

Field / function	Description
footprint symbol	Click on the footprints symbol to see instructions inside the app.
Attachments/Images	⊟ View attached images or document files. Tap the active (blue) Attachments button to view attached images / files. In this app, the uploading of files is not supported and therefore the Upload button is disabled:  **Note:** You may need a proper viewer on your device to open the document (especially if you are using a mobile device). ⊟ Displayed image types: Images of the following, linked master data a) Operation b) Item master are displayed under the **Start/Stop** button.

© 2026 Boyum IT Solutions A/S

Field / function	Description
	 **Attachments:** The first image stored in the first operation is displayed, and you can display the other images by pressing this button. A list of attachments from operation and item appears in a separate window:

© 2026 Boyum IT Solutions A/S

Field / function	Description
	

The system displays the Bill of Materials list in the bottom area of this tab, below the **Start/Stop** button and (any) linked images.

Note: BoM with negative quantity is not supported.

Line	Item Number	Item Name	Quantity	Booked
10	RM	Raw Material / Normal	10,000000 Pcs	0,000000 Pcs
20	RM_B	Raw Material / Batch	36,000000 Pcs	0,000000 Pcs
30	RM_S	Raw Material / Serial	10,000000 Pcs	0,000000 Pcs

1 / 1

Color codes

Background color	Description
Red	You must book the material manually and booked quantity is not enough.
Green	The system books the material automatically (part of backflushing process) or you already booked it manually.
White	This Bill of materials position is not linked to the current operation.

© 2026 Boyum IT Solutions A/S

see

Pool control

Pool structure report

Capacity planning

Priorities

17.4.30 QC by Sample

With this app you can select an open QC Order and provide the values of the testing by sample. Only open samples are available.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

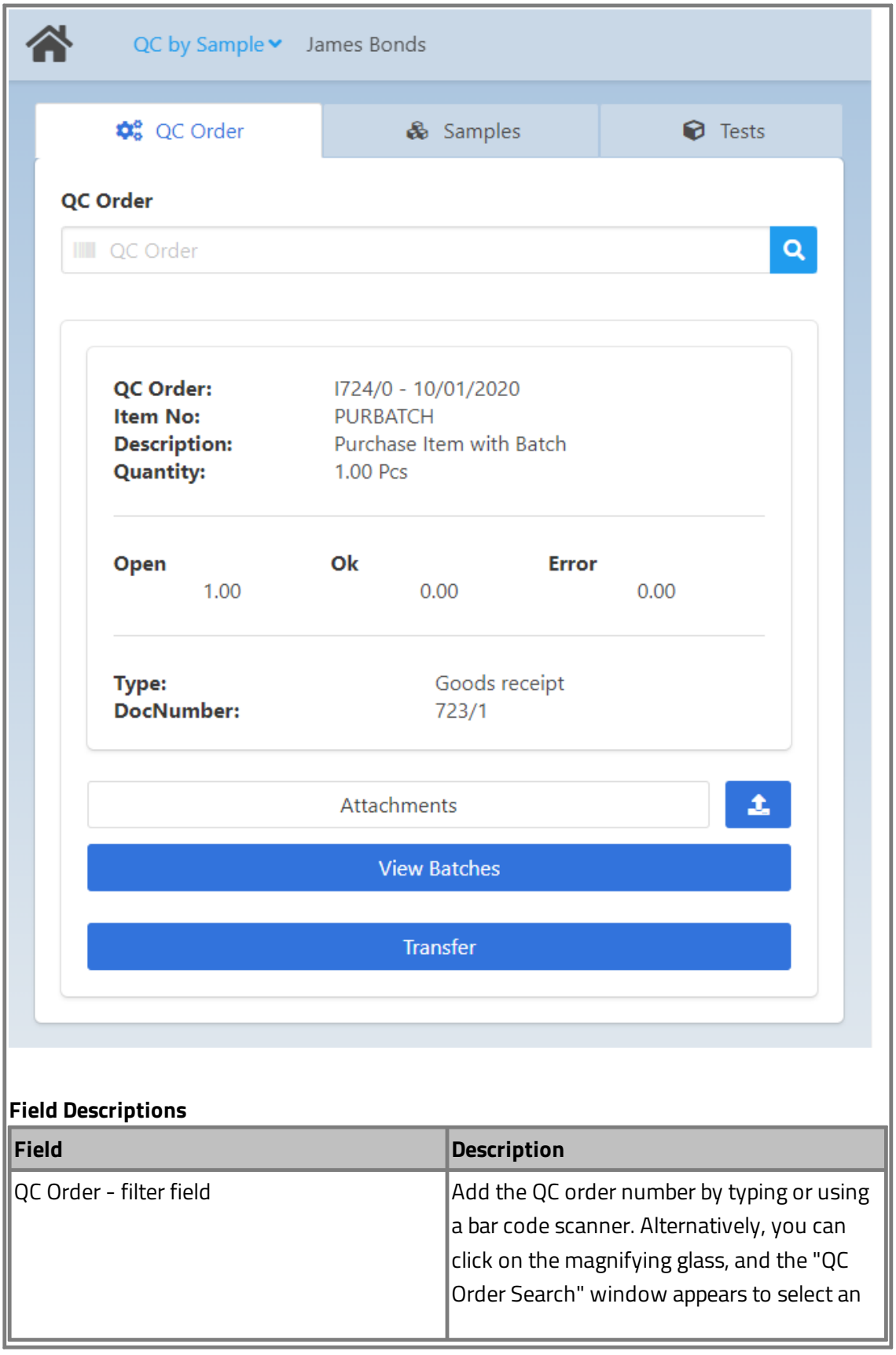
IMPORTANT: Electronic signature is not supported for QC WebApps.

See QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

QC Order (Header)

In the Header you can identify the QC Order. You can retrieve information on the item, description, quantity, released-blocked-faulty samples etc.

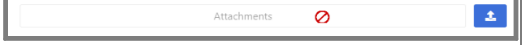
© 2026 Boyum IT Solutions A/S



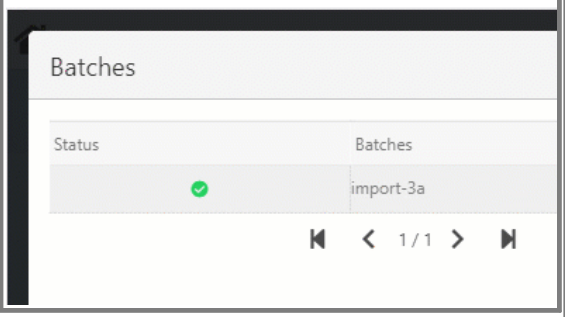
Field Descriptions

Field	Description
QC Order - filter field	Add the QC order number by typing or using a bar code scanner. Alternatively, you can click on the magnifying glass, and the "QC Order Search" window appears to select an

© 2026 Boyum IT Solutions A/S

Field	Description
	order. The field uses auto-completion: start typing to narrow down the search. Note: This behavior is not available in the Filter field of the "QC Order Search" pop-up window.
Information area	
QC Order	QC Order number and the day of creation
Item No	Item number
Description	Item description
Quantity	Quantity already posted or to be checked.
Open - OK - Error	- Open: Number of samples not yet released. - OK: Number of released samples - Error: Number of samples marked as faulty
Type	The type of origin document the QC order was created from – work order, goods receipt etc. ***See*** document types.
DocNumber	Number of the origin document
WO	Visible if the origin document is a Work order.
Attachments	Upload image or document files as attachments. Upload files by tapping the button. In this app, the viewing of attachments is not supported, and therefore the "Attachment" button is disabled:  ***See*** QC Order Documents, QC Attachment edit, Copy QC Document settings SAP Business One - General Settings - Path
View Batches	Button opens the Batches information

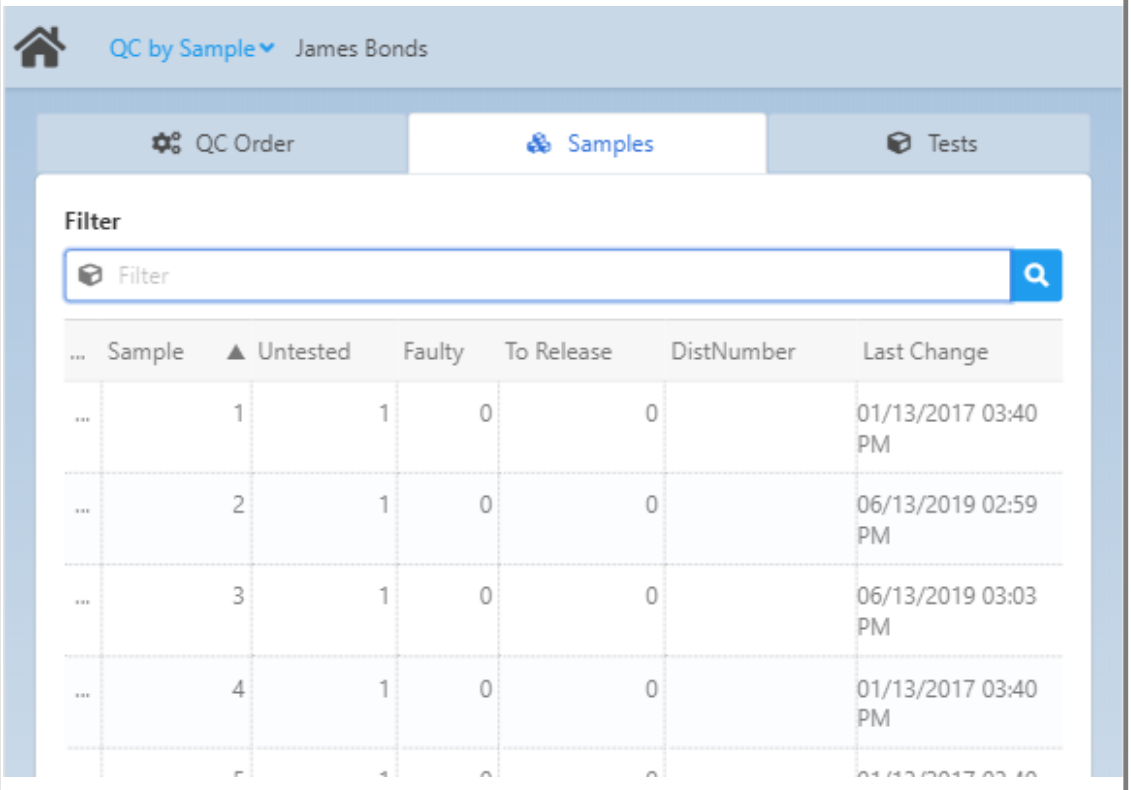
© 2026 Boyum IT Solutions A/S

Field	Description
	window . Here you can block or release the selected batches by tapping the Status marker like below: 

Transfer: (Only available If transfer is Open). By clicking the button, the screen switches to the QC Transfer app.

Samples

This tab lists the open samples of the QC order.



Field Descriptions

© 2026 Boyum IT Solutions A/S

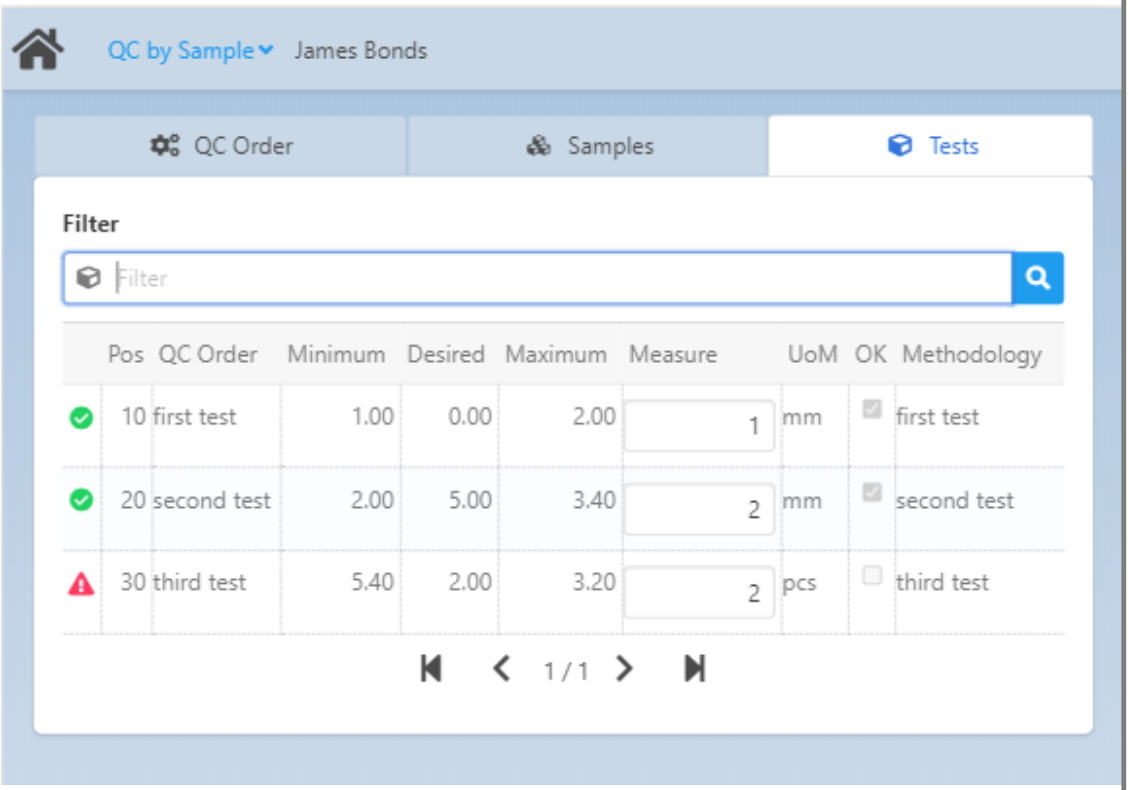
Field	Description
Filter	Filtering field to search for serials or add a sample number here. Tap the magnifying glass, type Serial number or scan bar code.
...	Tap here to provide additional values for a sample in a pop-up window: **Release 1** – Only available for Manual options. Drop-down menu for Release status. **Release 2** – Only available if release 1 was selected. **Blockage reason:** Drop-down of blockage reason. An additional informational field is provided under the drop-down. **Valuation**: Drop-down of valuation reasons to select from. An additional informational field is provided under the drop-down. **Save:** Press button to save release, blockage reason and valuation information. **Cancel**: Close the pop-up window without changes.
Sample	Sample number
Untested	Number of unchecked measurement positions.
Serial	Visible only in case of serials.
Faulty	(Optional for tablets or computers) Number of measurement positions marked as faulty (with blockage reason).
To Release	(Optional for tablets or computers) Number of measurement positions to be released.
DistNumber	Serial number information
Last Change	(Optional for tablets or computers) Data/Time of the last change.

© 2026 Boyum IT Solutions A/S

Field	Description
+ Add New Sample	Tap the **+ Add New Sample** button to register a new sample. A new row appears in the list where you can add values by clicking the desired section in the list. By tapping any part of the list, the app switches to the Test tab.

Test

This tab is only available when you select a sample from the Samples tab.



Field Descriptions

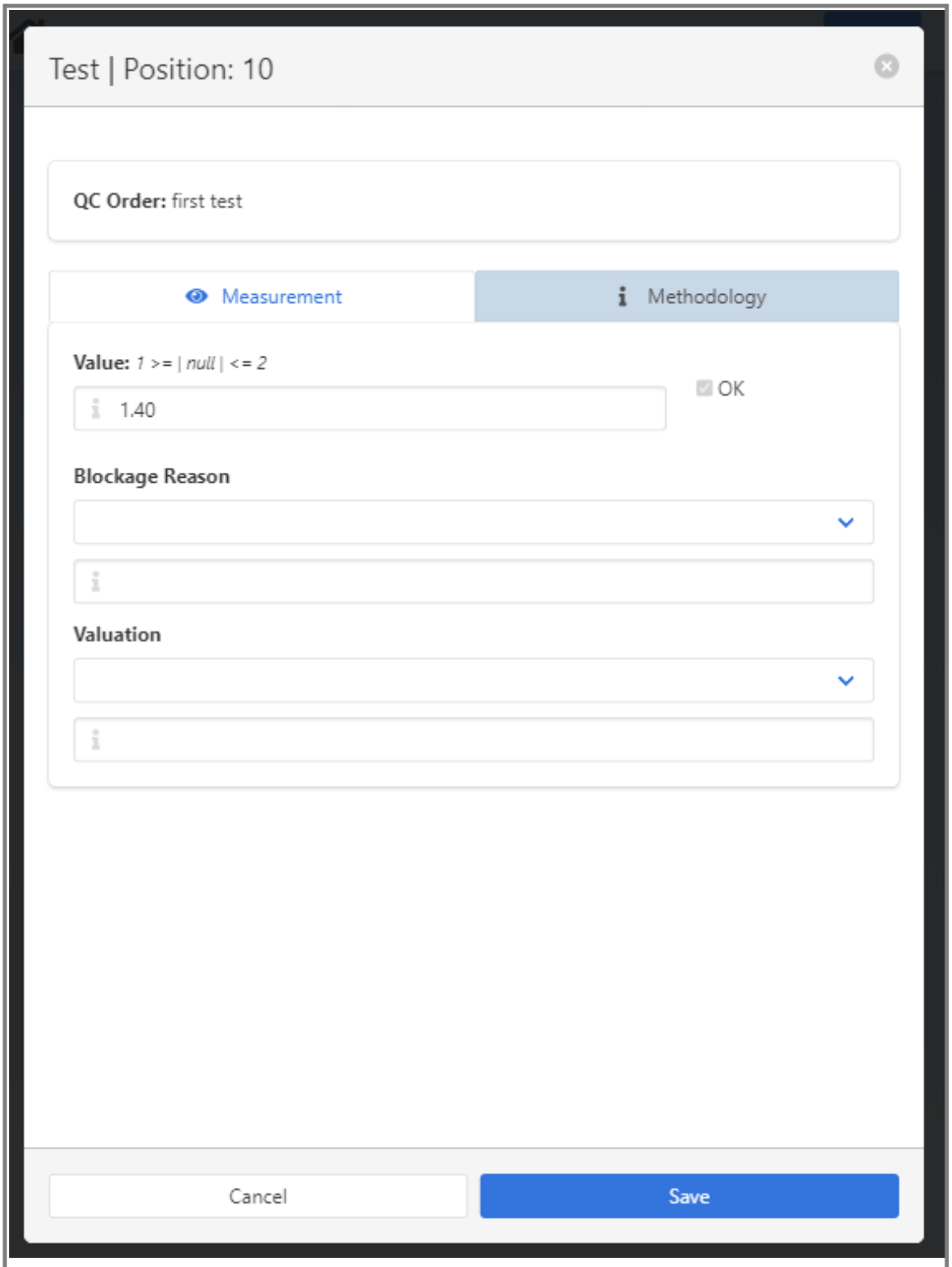
Field	Description
Filter	Filtering field to search for tests linked to the QC Order.
Status marker	This first column shows if the measured value falls in the specified range ( ) or fails the measurement requirements ( ).

© 2026 Boyum IT Solutions A/S

Field	Description
Pos	Sample position number
QC Order	Short description for the measurement position.
Minimum	Minimum acceptable value for the measurement.
Desired	Specify target value of the measurement position.
Maximum	Maximum acceptable value for the measurement.
Measure	Add measured value directly in the list. Information related to attributes is saved automatically.
UoM	The unit of measure (mm, kg, %, liter etc.) for the position
OK	Check box is ticked if the measurement falls between the specified minimum-maximum values. Only for information. When the Measure attributes are saved, this checkbox is set to active automatically.
Methodology	(Optional for tablets or computers) Long description of the sample.
Test tool	(Optional for tablets or computers) You can add a test tool for the process. ***See*** Tool Administration.
Relevant	(Optional for tablets or computers) This option must be activated if this measuring point is relevant for the release of the test plan. Note: For automated release at least one relevant position is required.

Tap anywhere in the list to provide additional values for a measurement position. A pop-up window is displayed:

© 2026 Boyum IT Solutions A/S



Field Descriptions

© 2026 Boyum IT Solutions A/S

Field	Description
QC Order	Name of the QC Order
Measurement tab	
Value	Value measured during the test. If the value was added in the list view, it automatically appears in this pop-up window. OK: Check box is ticked if the measurement falls between the specified minimum-maximum values. Only for information.
Blockage Reason	Drop-down of blockage reason. An additional informational field is provided under the drop-down.
Valuation	Drop-down of valuation reasons to select from. An additional informational field is provided under the drop-down.
Save	Tap the button to update the sample. After updating, the released samples will not be visible in the list. On desktop you can press Enter, alternatively.
Cancel	Close the pop-up window without changes.
Methodology tab	The tab is only for information purposes and displays the long description of the sample.

Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

See also Edit QC orders and Input by Sample

17.4.31 QC by Test

© 2026 Boyum IT Solutions A/S

With this app, users can select an open QC Order and provide the values of a testing for all samples. Only open samples are available.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

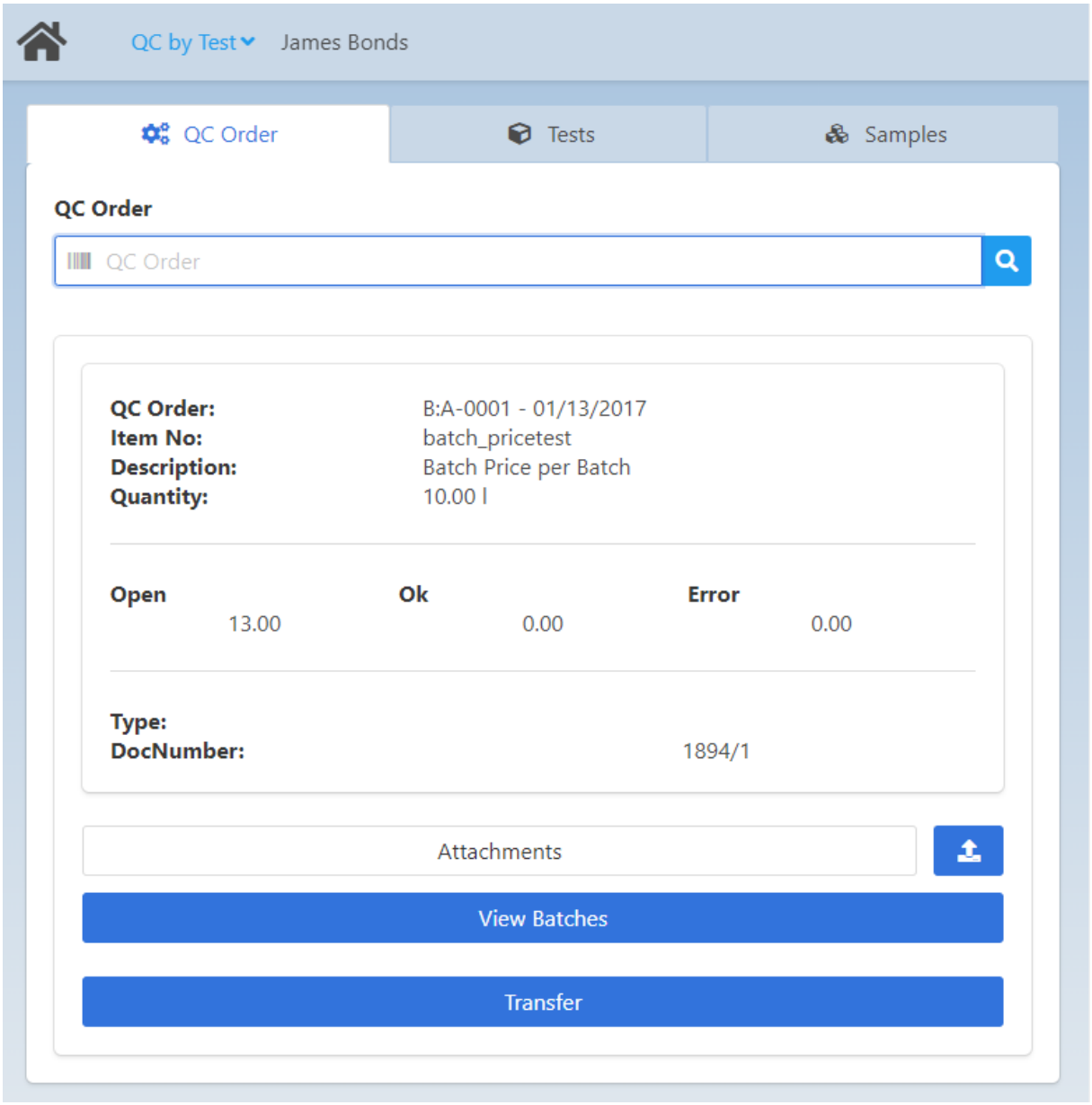
IMPORTANT: Electronic signature is not supported for QC WebApps.

See QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

QC Order (Header)

The QC Order tab is to identify the QC order. You can retrieve information on the item, description, quantity, released-blocked-faulty samples etc.

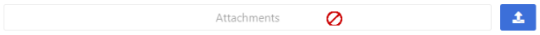
© 2026 Boyum IT Solutions A/S



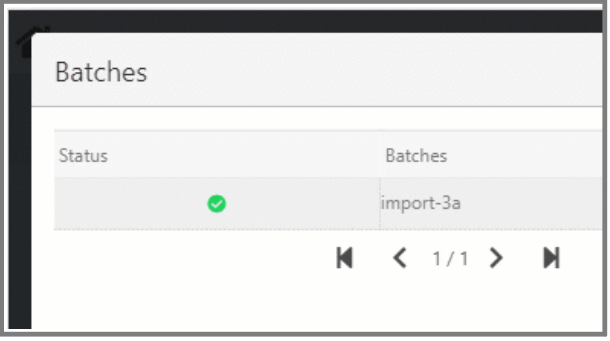
Field Descriptions

Field	Description
QC Order - filter field	Add the QC order number by typing or using a bar code scanner. Alternatively, you can click on the magnifying glass, and the "QC Order Search" window appears to select an order. The field uses auto-completion: start typing to narrow down the search. Note: This behavior is not available in the Filter

© 2026 Boyum IT Solutions A/S

Field	Description
	field of the "QC Order Search" pop-up window.
Information area	
QC Order	QC Order number and the day of creation
Item No	Item number
Description	Item description
Quantity	Quantity already posted or to be checked.
Open - OK - Error	- Open: Number of samples not yet released. - OK: Number of released samples - Error: Number of samples marked as faulty
Type	The type of origin document the QC order was created from – work order, goods receipt etc. ***See*** document types.
DocNumber	Number of the origin document
WO	Visible if the origin document is a Work order.
Attachments	Upload image or document files as attachments. Upload files by tapping the button. In this app, the viewing of attachments is not supported, and therefore the "Attachment" button is disabled:  ***See*** QC Order Documents, QC Attachment edit, Copy QC Document settings SAP Business One - General Settings - Path
View Batches	Button opens the Batches information window . Here you can block or release the selected batches by tapping the Status marker like below:

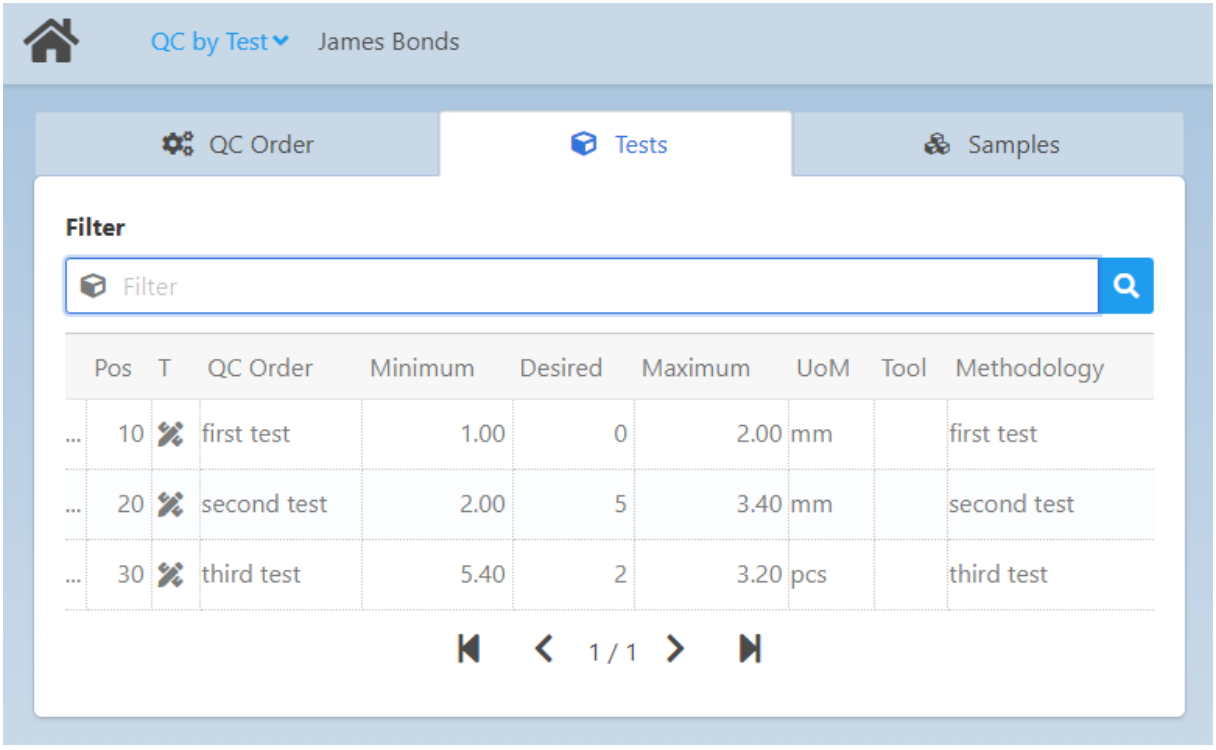
© 2026 Boyum IT Solutions A/S

Field	Description
	

Transfer: (Only available If transfer is Open). By pressing the button, the screen switches to the QC Transfer app.

Tests

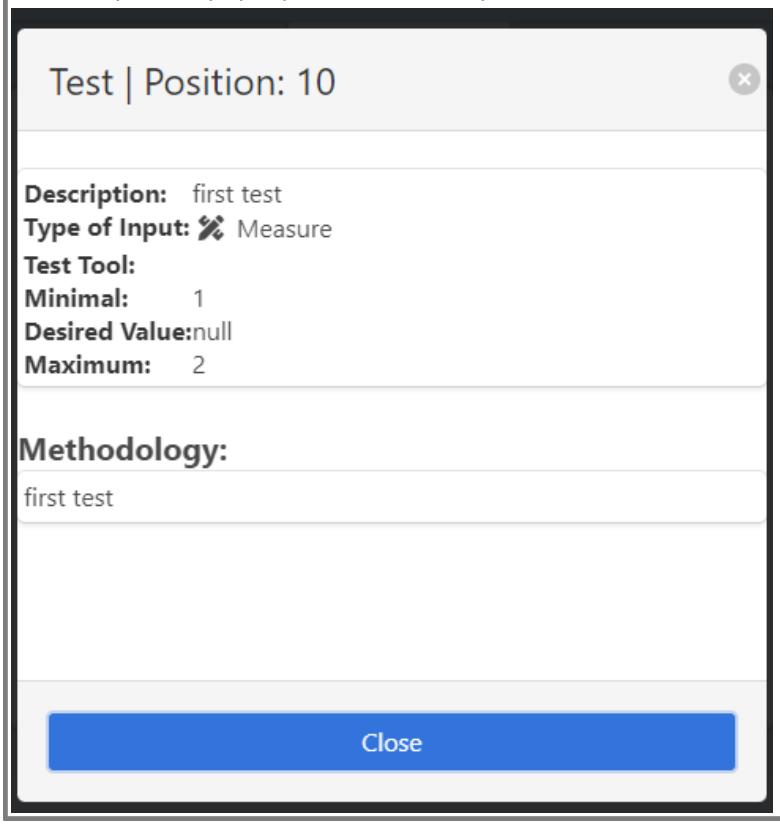
In this tab you can see the different tests linked to the QC order. Select a test in which you wish to set the measurement values for all samples.
By selecting a test from the list, the app switches to the Samples tab.



Field Descriptions

Field	Description
Filter	Filtering field to search for tests.

© 2026 Boyum IT Solutions A/S

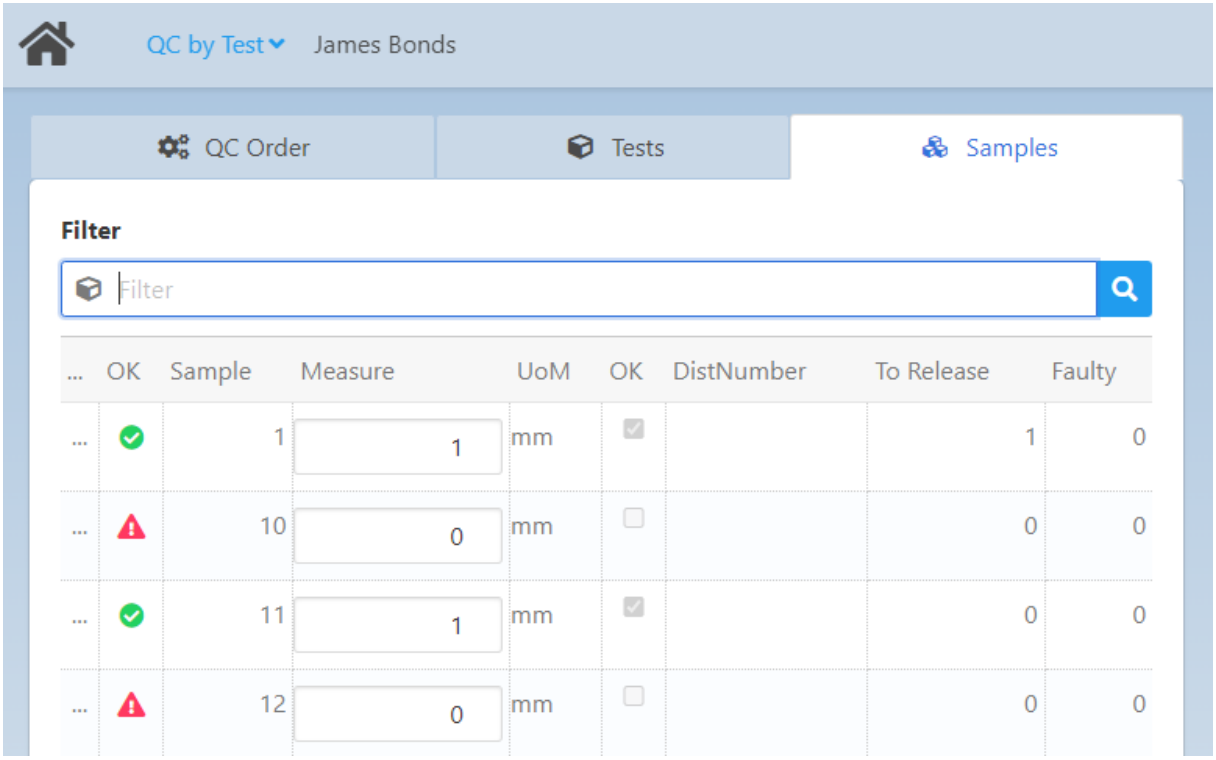
Field	Description
...	Tap on this to get an overview of all fields of this tab. As smaller hand-held devices like smart-phones are unable to provide a list of all columns in the view, you can view a full summary in the pop-up window that opens. 
Type	Type of entry: Text, Measurement, attribute.
Pos	Test position number
QC Order	Short description for the test.
Minimum	Minimum acceptable value for the measurement.
Desired	Specify target value of the measurement.
Maximum	Maximum acceptable value for the measurement.
Measure	Add measured value directly in the list. The screen switches to the Samples tab to enter the values.
UoM	The unit of measure (mm, kg, %, liter etc.) for the position
Methodology	(Optional for tablets or computers) Long description of the sample.

© 2026 Boyum IT Solutions A/S

Field	Description
Tool	(Optional for tablets or computers) You can add a test tool for the process. ***See*** Tool Administration.

Samples

In this tab you can specify the measurement value for all samples within a Test.



Field Descriptions

Field	Description
Filter	Filtering field to search for serials or add a sample number here. Tap the magnifying glass, type Serial number or scan bar code.
...	Tap here to provide additional values for a sample in a pop-up window: **Release 1** – Only available for Manual options. Drop-down menu for Release status. **Release 2** – Only available if release 1 was pressed

© 2026 Boyum IT Solutions A/S

Field	Description
	Blockage reason: Drop-down of blockage reason. An additional informational field is provided under the drop-down. **Valuation**: Drop-down of valuation reasons to select from. An additional informational field is provided under the drop-down. **Save:** Press button to save release, blockage reason and valuation information. **Cancel**: Close the pop-up window without changes.
OK	This first column is a status marker to show if the measured value falls in the specified range ( ) or fails the measurement requirements ( ).
Sample	Sample number
Measure	Enter measurement value directly in the list view. Information related to attributes is saved automatically.
OK	When the Measure attributes are saved, this check box is set to active automatically.
DistNumber	Serial number information
To Release	(Optional for tablets or computers) Number of measurement positions to be released.
Faulty	(Optional for tablets or computers) Number of measurement positions marked as faulty (with blockage reason).

- Settings

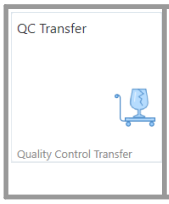
  Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

See Edit QC orders and Input by Sample

also ***see*** QC by Sample WebApp

© 2026 Boyum IT Solutions A/S

17.4.32 QC Transfer

	 Optimized for Zebra Scanner	Browser Support 		License Quality Control	 Print Document

With this app, users can select an opened QC Order and transfer its items from the QC warehouse to the release warehouse.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

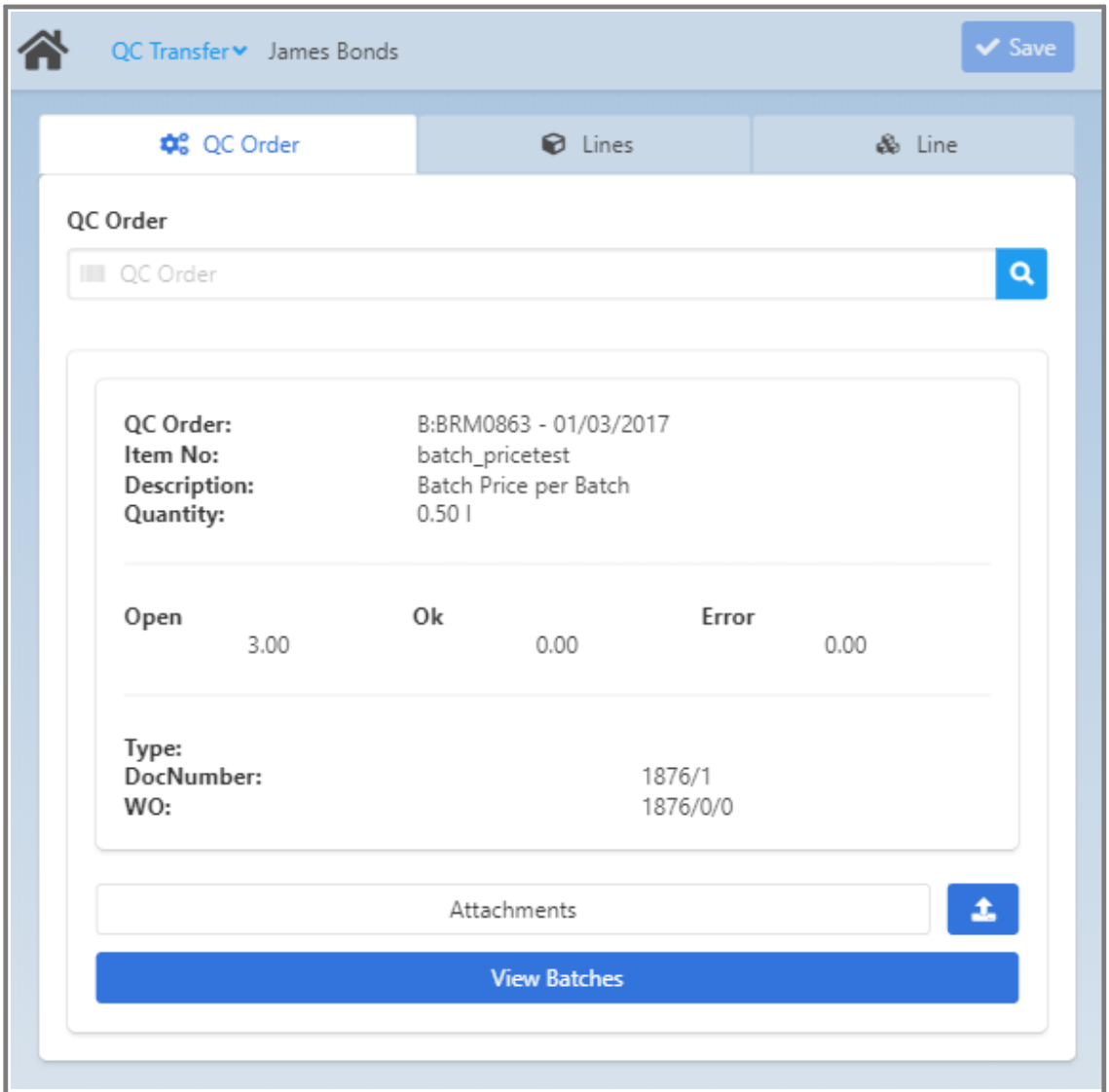
IMPORTANT: Electronic signature is not supported for QC WebApps.

See QC by Sample - QC by Test - QC Transfer (WebApps 2.1) demonstration

QC Order (Header)

The QC Order tab is to identify the QC order. You can retrieve information on the item, description, quantity, released-blocked-faulty samples etc.

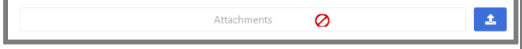
© 2026 Boyum IT Solutions A/S



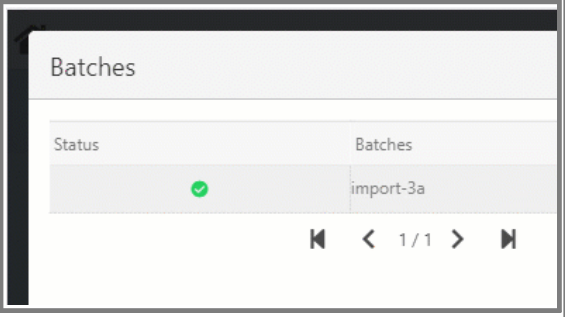
Field Descriptions

Field	Description
QC Order - filter field	Add the QC order number by typing or using a bar code scanner. Alternatively, you can click on the magnifying glass, and the "QC Order Search" window appears to select an order. The field uses auto-completion: start typing to narrow down the search. Note: This behavior is not available in the Filter field of the "QC Order Search" pop-up

© 2026 Boyum IT Solutions A/S

Field	Description
	window.
Information area	
QC Order	QC Order number and the day of creation
Item No	Item number
Description	Item description
Quantity	Quantity already posted or to be checked.
Open - OK - Error	- Open: Number of samples not yet released. - OK: Number of released samples - Error: Number of samples marked as faulty
Type	The type of origin document the QC order was created from – work order, goods receipt etc. ***See*** document types.
DocNumber	Number of the origin document
WO	Visible if the origin document is a Work order.
Attachments	Upload image or document files as attachments. Upload files by tapping the button. In this app, the viewing of attachments is not supported, and therefore the "Attachment" button is disabled:  ***See*** QC Order Documents, QC Attachment edit, Copy QC Document settings SAP Business One - General Settings - Path
View Batches	Button opens the Batches information window . Here you can block or release the selected batches by tapping the Status marker like below:

© 2026 Boyum IT Solutions A/S

Field	Description
	

Save: The button processes all lines as the Booking button in QC Transfer in the desktop program. It is possible to process the document with it only if there are values in at least one line and if there are no incomplete lines.

Lines

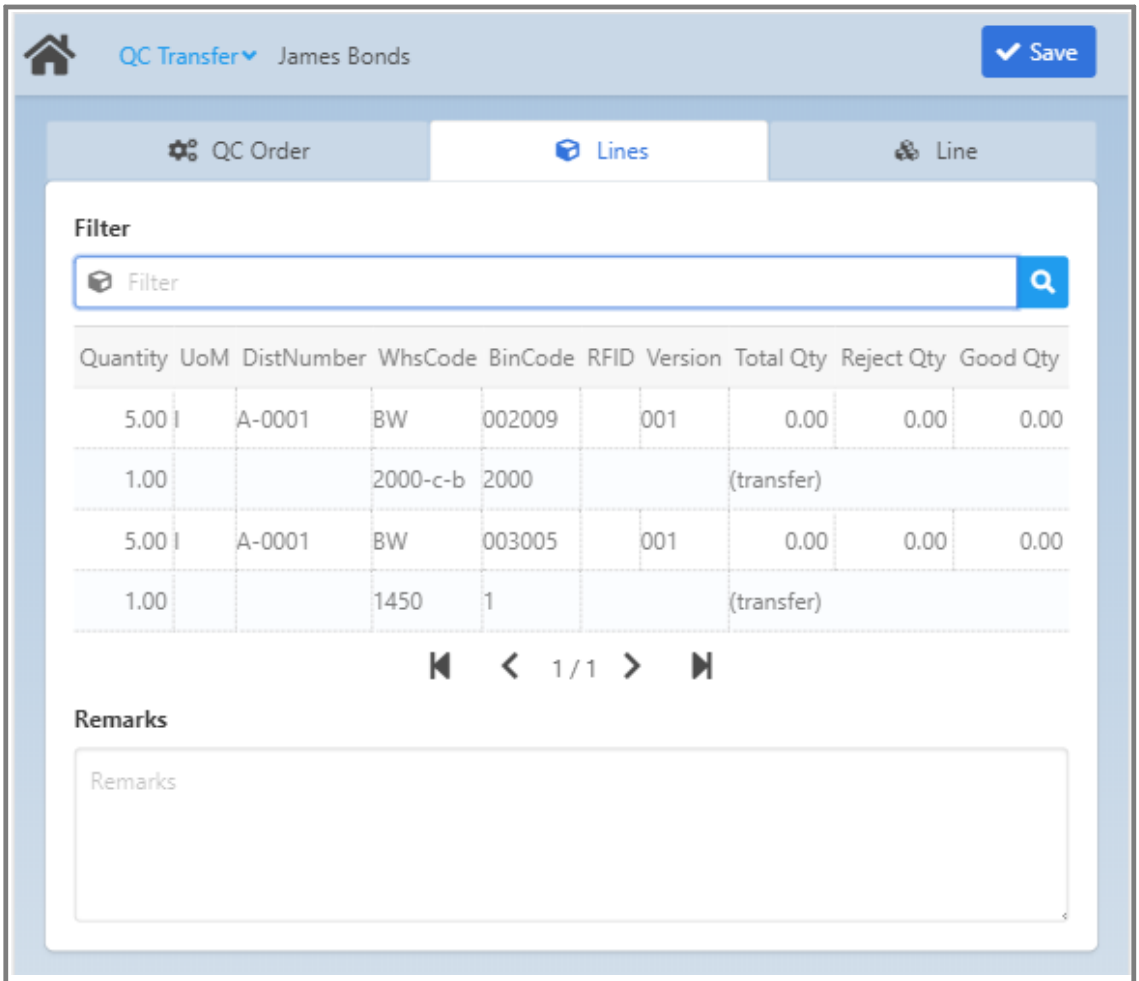
In this tab you can see a list of all lines of the QC order with various information (***see*** Field descriptions below).

Select a line (item) to edit, and the Line tab opens.

Once all values are entered for the selected item in the Line tab, an additional row appears below the main line of the item (***see*** image below), showing the quantity for transfer in the first column, and the information (transfer) in the Total Quantity column.

If a line is incomplete and misses information, it appears highlighted in red color in this tab.

© 2026 Boyum IT Solutions A/S



Field descriptions

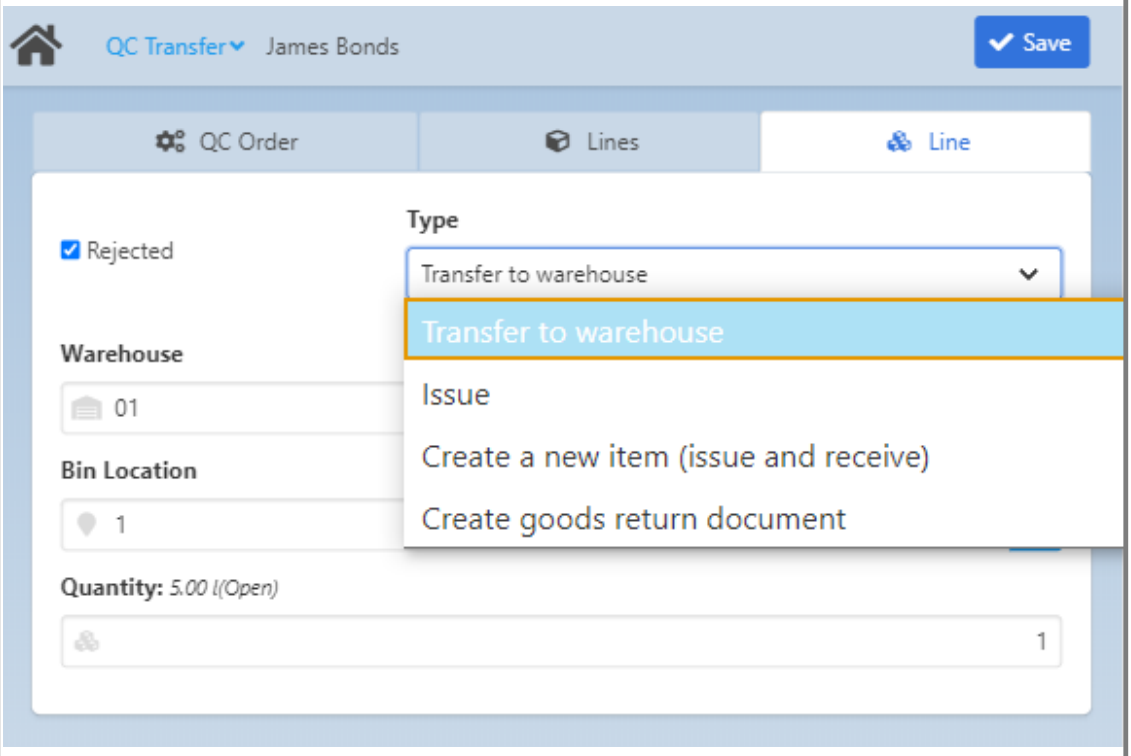
Field	Description
Filter	Search to find a serial item from the list
Quantity	Available quantity from the QC order
UoM	Unit of Measure
DistNumber	Batch number information
WhsCode	The Warehouse code of the target warehouse where the items are to be transferred. ***See*** Warehouse rules
BinCode	The bin location code in the target warehouse where the items are to be transferred.

© 2026 Boyum IT Solutions A/S

Field	Description
RFID	Radio-frequency identification code that uses electromagnetic fields to automatically identify and track tags attached to objects. ***See*** more information in RFID.
Version	Item version
Total Qty	Total quantity
Reject Qty	Quantity of rejected items (scrap)
Good Qty	Previously transferred yield quantity
Remarks	Add any remarks, information

Line

This tab can only be opened from the Lines tab list and always loads the current value in the line, providing an edit screen.



Field descriptions

Field	Descriptions
Rejected	Check box option to flag item as rejected.

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Descriptions</th></tr>
<tr><td>Type</td><td>When selecting the type of document, the Line tab layout - the number of fields - changes dynamically according to the logic.
Document types
<table>
<tr><th>Document Type</th><th>Description</th></tr>
<tr><td>Create Transfer to Warehouse

WebApp 2.1: "Transfer to Warehouse"</td><td>Transfer the Item from Quality Control warehouse to target warehouse
The warehouse can be for good material or scrap (Reject = active)</td></tr>
<tr><td>Create Goods Issue from current Warehouse

WebApp 2.1: "Issue"</td><td>Goods are only issued
Use this if you cannot use the material (scrap)</td></tr>
<tr><td>Change current item by another one (Issue Document + Receipt Document)

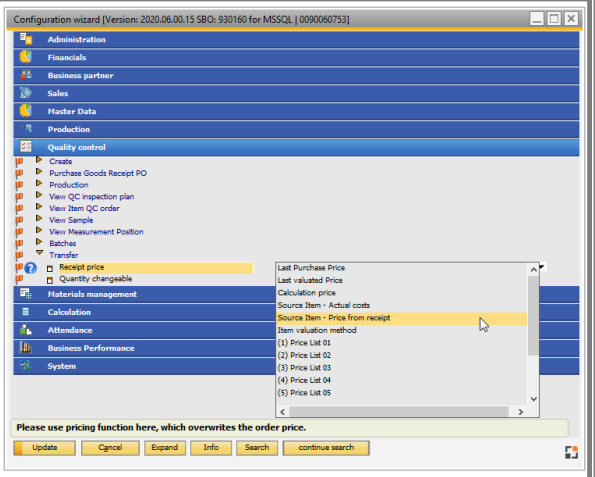
WebApp 2.1: "Create a new item (issue and receive)</td><td>This action generates a Goods Issue document for the original item and a goods receipt for the new item.

If the new item has another Unit if you activate the "Change quantity" in the Configuration wizard, you can define the quantity which you want to post out and which quantity you want to post in.

Define price for a receipt document
It is possible to define price for a receipt document (if a receipt is created) with the parameter "Receipt price":</td></tr>
</table>
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Descriptions

Document Type	Description
	 *Window system_option_struktur.psr* **Additional, available values:** **Name** / **Description** Source Item – Actual Cost: The system reads price from the issue document of the original item. Note: this option applies only to Quality Control. Source Item – Price from entry: The system reads price of the last receipt document of the original item. Note: this option applies only to Quality Control. ***see*** Configuration wizard.
Create Purchase Return document from Current Warehouse WebApp 2.1: "Create goods return document"	A SAP Business One purchase return document is generated. Warehouse is always the warehouse defined in the original document. This option is only available when original document is a "Goods receipt PO". For all other kind of documents this option is not visible.
Inventory Transfer	Transfer request for an Item from Quality

© 2026 Boyum IT Solutions A/S

Field	Descriptions
	<table><tr><th>Document Type</th><th>Description</th></tr><tr><td>Request WebApp 2.1: "Transfer Request"</td><td>Control warehouse to target warehouse The warehouse can be for good material or scrap (Reject = active) **Note:** Bin-managed warehouses are NOT supported, and so these warehouses are excluded from the drop-down once this option is selected. The option is hidden when the source warehouse is a bin located warehouse.</td></tr></table>
Warehouse	Select the target warehouse where the items are to be transferred. Not visible at "issue" and "Create goods return document" types. ***See*** also Warehouse rules.
Bin Location	Select the bin location inside the target warehouse where the items are to be transferred. Not visible at "issue" and "Create goods return document" types.
Quantity	Quantity to be posted. Note: Date creation is not available in the WebApp version – it is always the current date (today).
I-Version	Only visible at "Create a new item (issue and receive)". Define Item version for the new item.
Batch/Serial Number	Only visible at "Create a new item (issue and receive)". Define Batch/Serial number for the new item. ***See*** Batch/Serial Extended Information screen
To Quantity	Only visible at "Change current item by other one (Issue Document + Receipt Document)" document type. Here it is possible to define the quantity for the new item. The UoM is predefined.

- Settings

Waiting time: In this parameter you can define the number of seconds that the app should wait until moving forward with the next transaction.

© 2026 Boyum IT Solutions A/S

See QC Transfer

17.4.33 Ext. Deliver

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Production Data Collection	Warehouse Support SAP Bin Management Beas Bin Management	

External: Deliver Provisions (External provision)

This app allows to deliver material to the supplier for an External service (previously created as a Purchase Order in the system).
Automatic pre-assign function is supported.

> Note: External Purchase Order Creation is only available for Basic license. The terminal options are only to process the inventory transactions.

See basic WebApp controls in General Information on WEB APPS Version 2.1.
See Configuration wizard settings of the Web Terminal.

Header

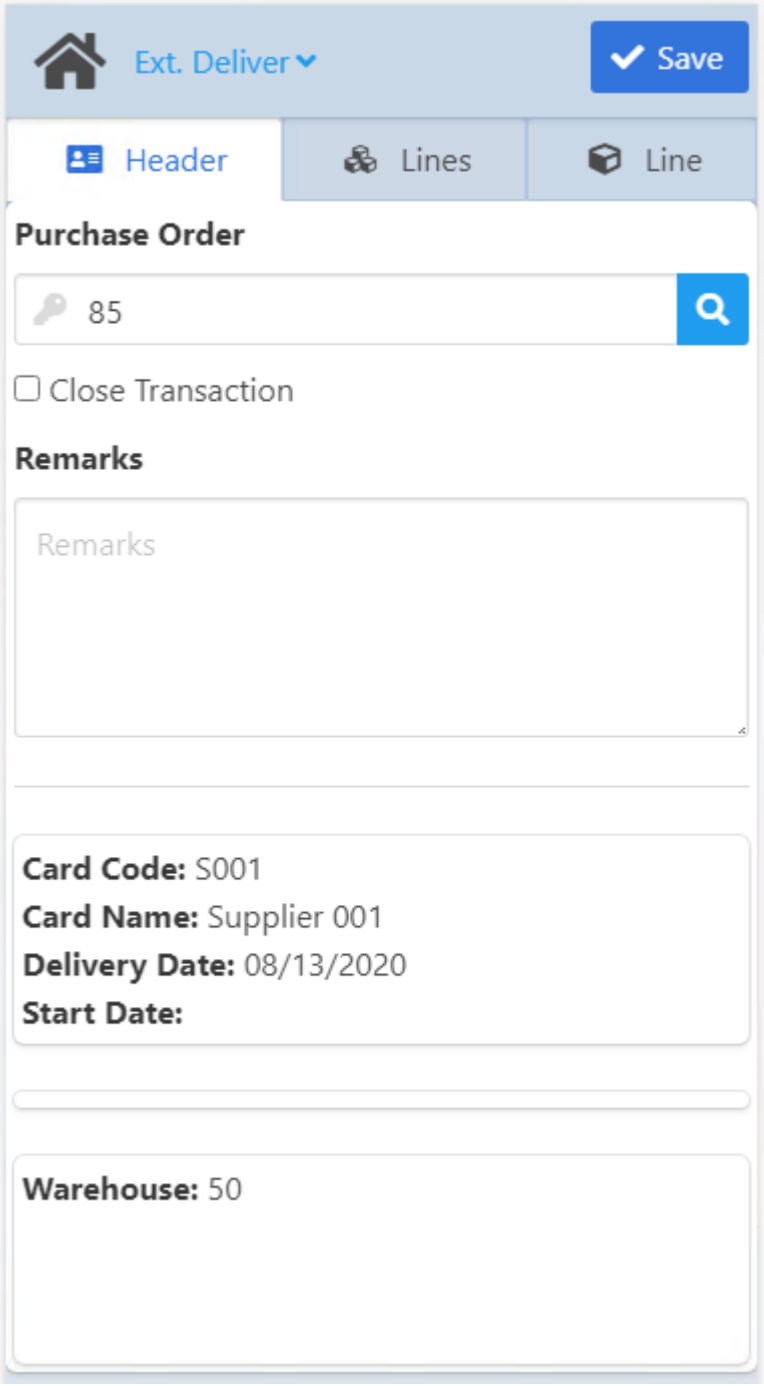
In this tab you can identify the Purchase order first.

Scanner can be used at Purchase order number: (similar to Goods Receipt apps)

For the search the system allows filtering by:

- Purchase order number / line
- Supplier ID
- Supplier name (visible in tablet mode)

© 2026 Boyum IT Solutions A/S



Field descriptions

Field	Description
Purchase Order/Line (#DocNum)	Press the magnifying glass button to open the search screen for purchase orders. The filtered information appears in the order of delivery dates for the POs.

© 2026 Boyum IT Solutions A/S

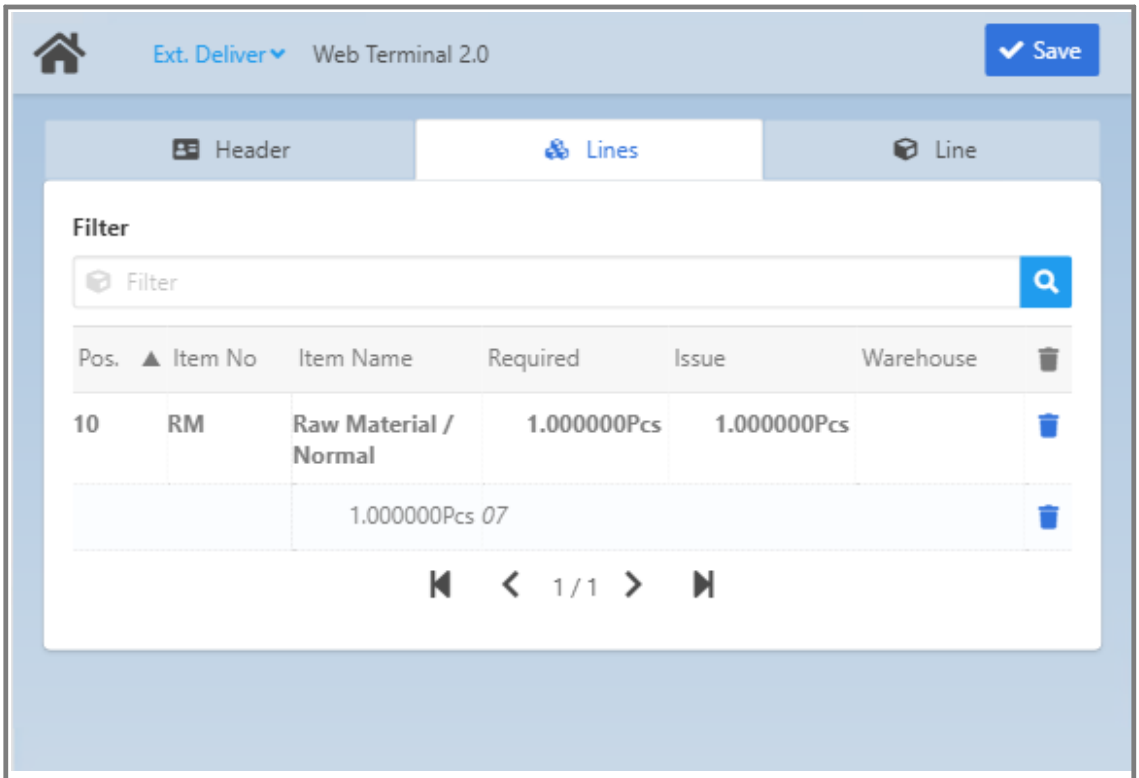
Field	Description
Scrap	Enter scrap quantity (if any).
Close Transaction	With this radio box you can select to close transaction when creating the Goods Receipt Purchase Order document.
Remarks	Additional information
Card Code	Supplier code
Card Name	Supplier name
Delivery Date	Delivery date of the purchase order
Start Date	Creation date of the purchase order
Warehouse (WhsCode)	Warehouse code Note: WMS Bin Management is not supported.
Bin Location	Bin Location
Info	notes to External operation
Address	Supplier address

Lines

After selecting the purchase order in the Header tab, the Lines tab opens, providing a read-only list of the related items. After selecting a line in the Lines tab, the app switches to the Line tab. Once you have pre-assigned quantities for an item in the Line tab, these quantities appear in secondary lines below the line in the Lines tab. With the recycle bin icon, here you can delete a pre-assigned item completely or delete the selected pre-assigned quantity of the line in its secondary line.

NOTE: If you create an external purchase order for reserved BoM WO quantities, the system automatically selects them, and completes the remaining quantities to be transferred from another warehouse.

© 2026 Boyum IT Solutions A/S



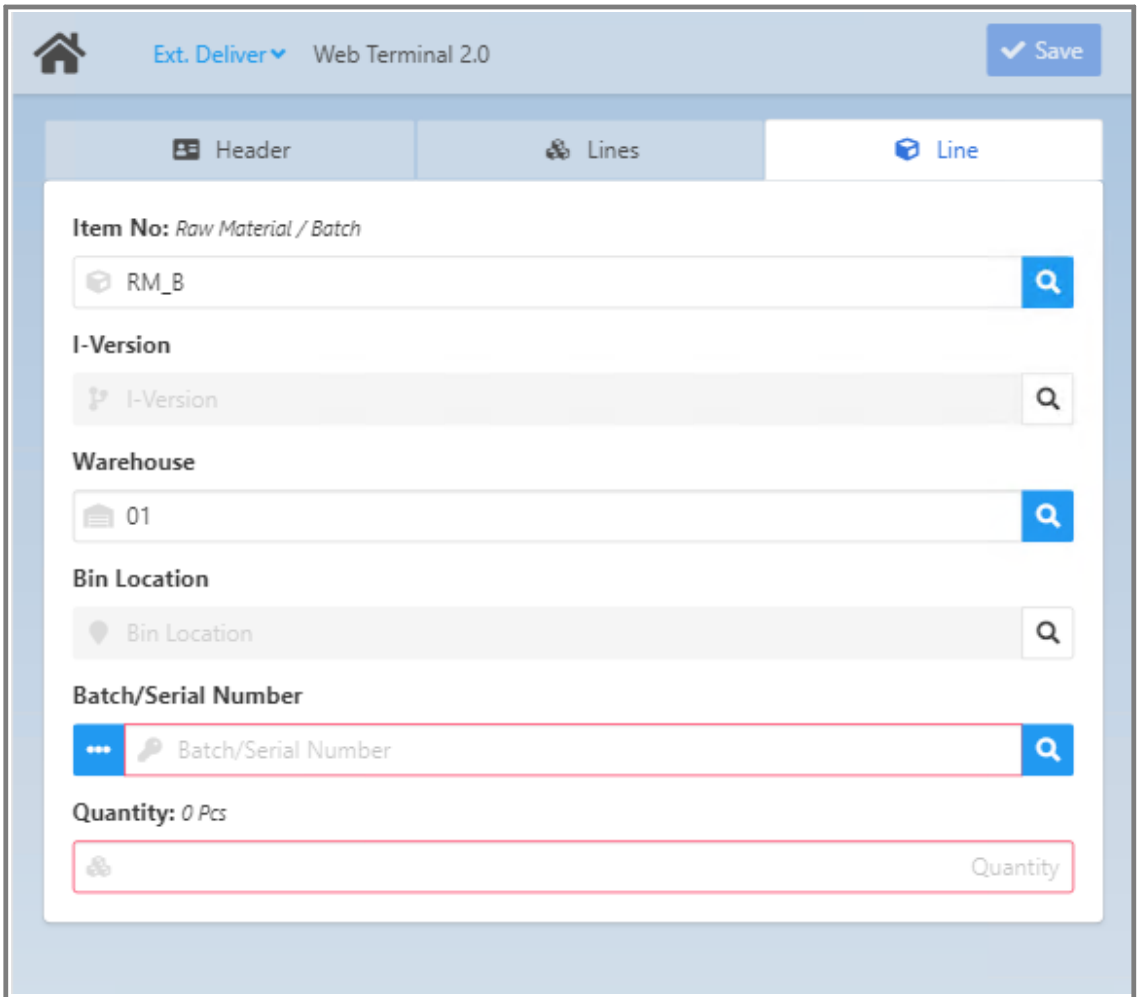
Field descriptions

Field	Description
Pos.	Position number
Item No	item code
Item Name	item name
Required	Required quantities. ▪ Red: when Open Quantity is > 1 ▪ Green= When open Quantity is 0 ▪ Yellow= When open Quantity is < 0 (negative) when reserved more than planned.
Issue	Quantity to be issued
Warehouse	Warehouse
UoM / WhsCode	- visible in tablet mode. Unit of measure / warehouse code

Line

Here you can enter information regarding quantities and inventory locations.

© 2026 Boyum IT Solutions A/S



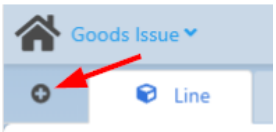
Field Descriptions

Field	Description
Item No	Select the Item to post in. The caption above the field gives a description on the exact type: in the example above (***see*** image) the selected entry is a "Purchase Item with Batch and Bin location". This field supports GS1-128 bar code scanning.
I-Version	Visible and editable in case of version-managed items. If the item has several versions, you can select the version with the magnifying glass or simply start typing it in the field. When the item is batch-managed, this field also shows the number of selected batches. Note: It is only possible to create a manual receipt of an item version with "Released" status.

© 2026 Boyum IT Solutions A/S

Field	Description
Warehouse	Select the warehouse for the goods receipt. After the selection, the Warehouse code is displayed. The exact name of the warehouse and the actual number of items in the warehouse are indicated in brackets above the field. The last used Warehouse is automatically stored and used by the system at the next document creation.
Bin Location	Select bin location. When selecting a bin warehouse, this field is activated to select a bin location for the item. The actual number of items in the bin is indicated in brackets above the field. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.
Batch/Serial Number	Define a Batch/Serial number The opens the "Batch/Serials: Extended Information" screen. In this application you can edit all applicable fields (in "Receipt mode" – ***see*** link below). It is possible to create a goods receipt for a number of batches/serials of the same item with the plus icon. The field in the main screen then displays the number of

© 2026 Boyum IT Solutions A/S

Field	Description
	selected batches – ***see*** image above. **WMS Integration:** Batch attributes are supported. ***See*** Receipt mode, field names and accessible fields in Extended information screen. Note: If mandatory information is missing in the Extended information screen, the Batch/Serial Number field will indicate it with a red border in the main screen, even though the field itself is not empty. In case of a serial-managed item, the serial mode is automatic: you can leave the serial field empty, and the quantities will be picked automatically by Beas. On how to input a large number of serials ***see*** Massive serial input. **IMPORTANT:** If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+":  .
Quantity	Provide the quantity of the items to be issued. The Unit of measure is indicated above the field (***see*** image above) and called from the item master data. Note: Units of measure may be entered with decimals but using the up and down selection arrows in the right side of the field can only provide rounded values.

WMS integration: In Batch/Serial number field, tap the magnifying glass icon to filter by LUID.

Note: It is not possible to do so with the Batch/Serial Extended Information screen.

© 2026 Boyum IT Solutions A/S

See other apps for external operations:

External: Goods Receipt Purchase Order

External: Issue Provisions

17.4.34 Ext. GRPO

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Production Data Collection	Warehouse Support SAP Bin Management Beas Bin Management	

External: Goods receipt Purchase Order

This app allows the user to register the goods receipt of an external service. The process creates a good receipt PO document for the created Purchase order.

Note: External Purchase Order Creation is only available for Basic license. The terminal options are only to process the inventory transactions.

IMPORTANT: This app does not create any receipts for finished products.

See basic WebApp controls in General Information on WEB APPS Version 2.1.

See Configuration wizard settings of the Web Terminal.

Header

The app consists only of this one tab to process the document. Here you can identify the Purchase order and enter quantities.
It is possible to search by Purchase order number or Supplier, then the screen to receipt PO of an external operation is opened.

Scanner can be used at Purchase order number: (similar to Goods Receipt apps)

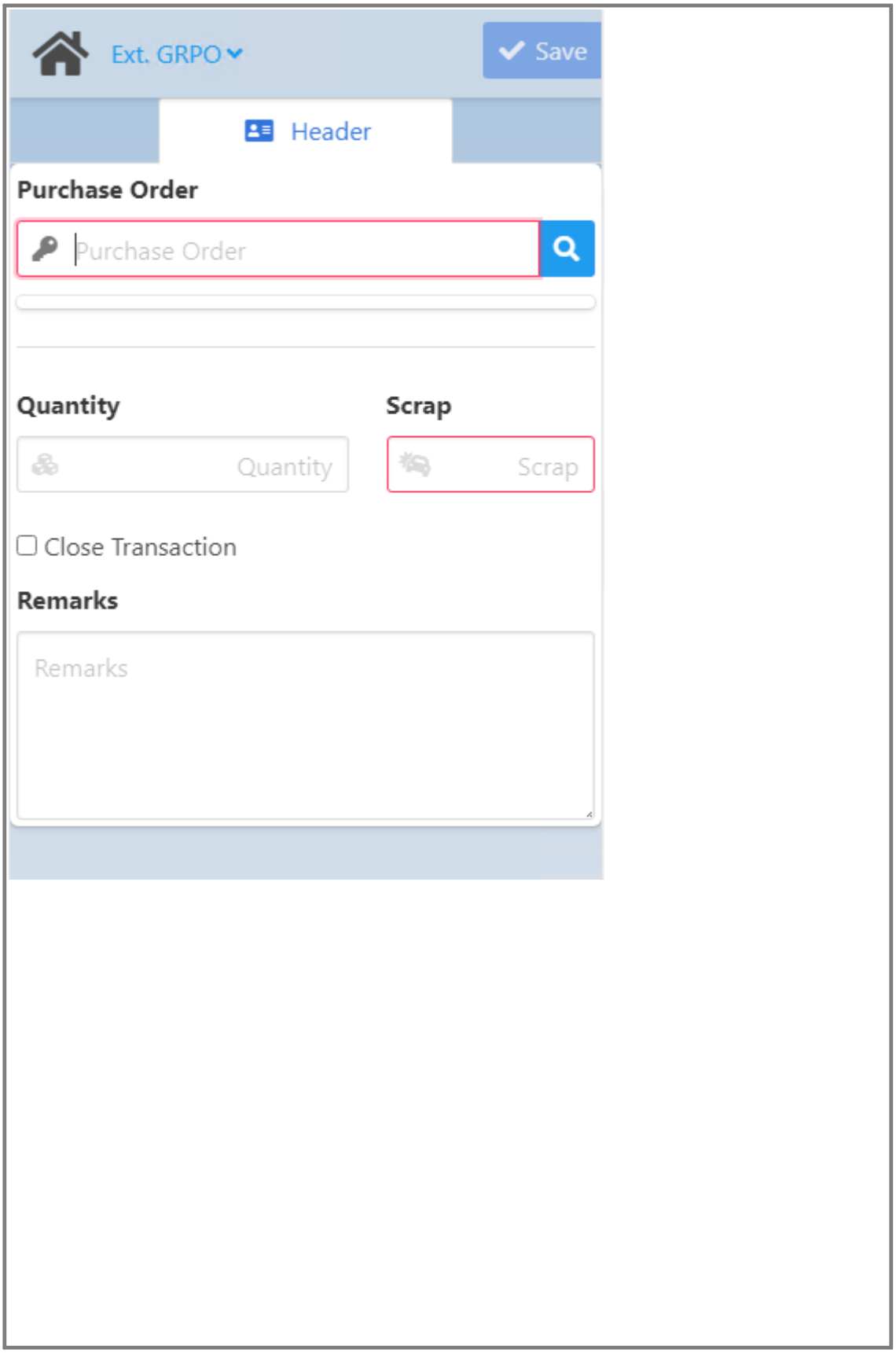
For the search the system allows filtering by:

- Purchase order number / line
- Supplier ID

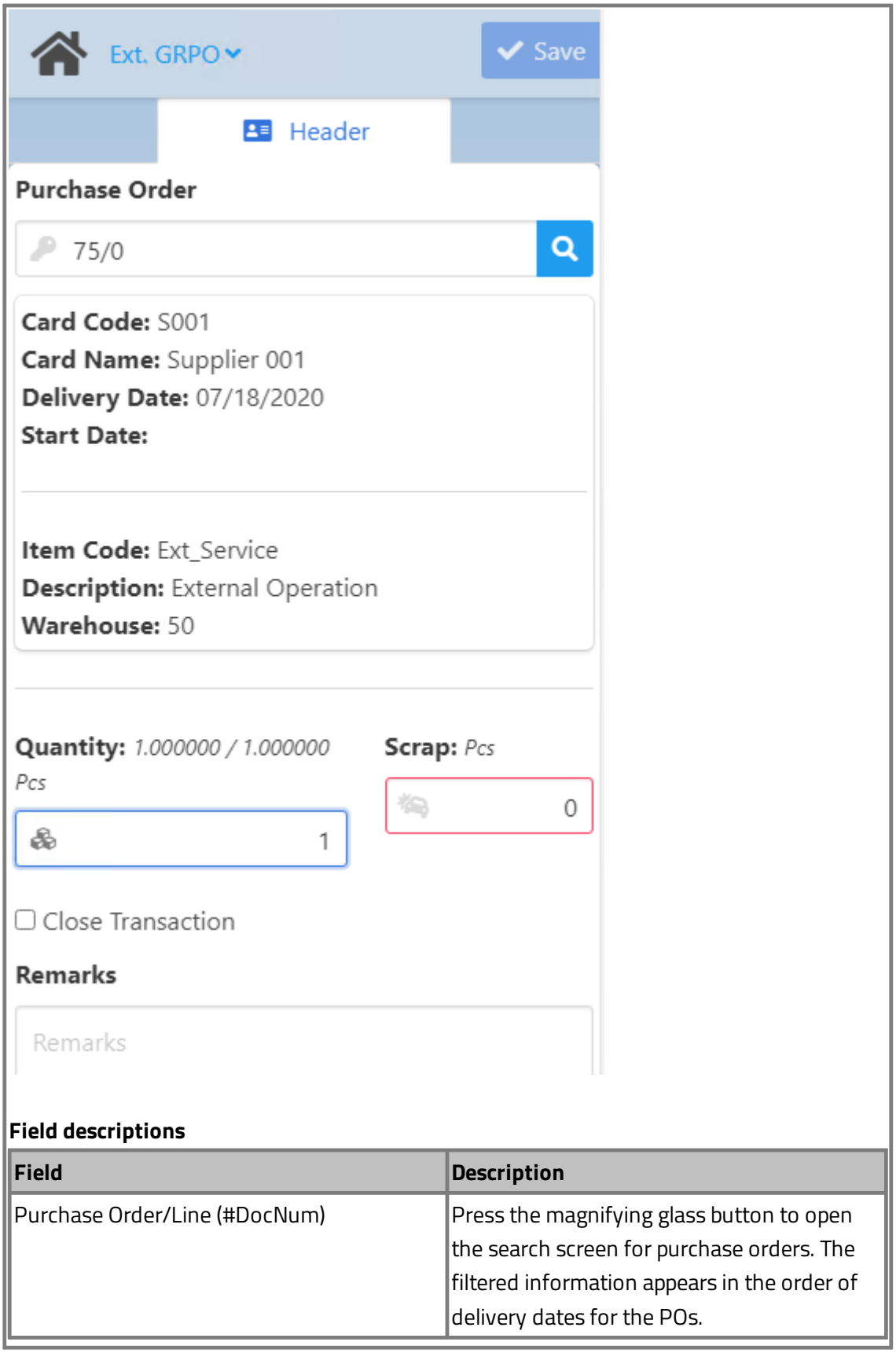
© 2026 Boyum IT Solutions A/S

- Supplier name (visible in tablet mode)

© 2026 Boyum IT Solutions A/S



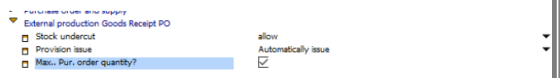
© 2026 Boyum IT Solutions A/S



Field descriptions

Field	Description
Purchase Order/Line (#DocNum)	Press the magnifying glass button to open the search screen for purchase orders. The filtered information appears in the order of delivery dates for the POs.

© 2026 Boyum IT Solutions A/S

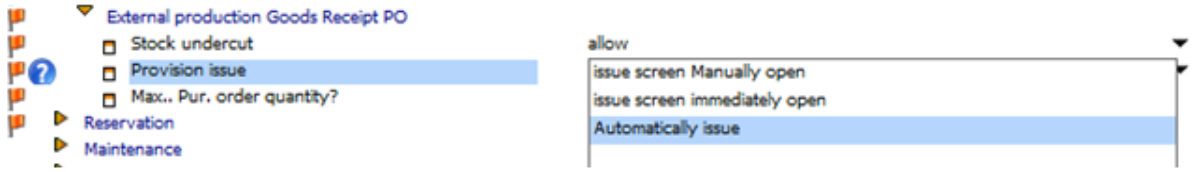
Field	Description
Quantity	Open quantity with unit of measure. Position is closed if Open quantity reaches 0. Validate check box according to this. Check box can be checked by user if the quantity is < that Open Quantity Configuration wizard parameter need to be considered: 
Scrap	Enter scrap quantity (if any), only if quantity > 0.
Close Transaction	With this check box option you can select to close the process - The Purchase order line will be closed - The Routing position will be closed if * this is not the first operation and parameter "Automatic Material posting" is first operation. * this is not the last operation. Why: In the first or last operation, an additional backflushing processes can be triggered. in the last operation, the assembly will be receipted. For these processes the program needs more information which is not available in this moment. if provision is defined, the system will never close the routing position. This is part of the Ext. Issue process.
Remarks	Additional information
Card Code	Supplier code

© 2026 Boyum IT Solutions A/S

Field	Description
Card Name	Supplier name
Delivery Date	Delivery date of the purchase order
Start Date	Creation date of the purchase order
Item Code	Item code (visible in Ext.GRPO Header)
Description	Description (visible in Ext.GRPO Header)
Warehouse (WhsCode)	Warehouse code Note: WMS Bin Management is not supported.
Bin Location	Bin Location
Info	notes to External operation
Address	Supplier address

Save: This button creates the goods receipt PO document.

After the GRPO document is successfully created, the message returned by the app displays information that depends on the three parameters for Provision issues:



- "Issue Screen Manually open": The app does not perform/offer anything else.
- "Issue screen Immediately open": The app shows a link to The Provision Issue app.
- "Automatically issue": the process of the creation of the Good receipt is automatically issued without any question for the user. The linked material is only issued to the external operation with this setting.

Note: For the option "Automatically issue", if the batch/serial is not set as automatically backflushed, it will be ignored in the process, and the user should perform it manually.

This app supports the External Production Goods Receipt PO setting for "Stock Undercut".

LIMITATIONS:

© 2026 Boyum IT Solutions A/S

- This app does not register the product or close the operation.

See other apps for external operations:
External: Deliver Provisions
External: Issue Provisions

17.4.35 Ext. Issue

	Optimized for Zebra Scanner	Browser Support	Bar code Support	License Production Data Collection	Warehouse Support SAP Bin Management Beas Bin Management	

External: Issue Provision

This app is provided as an optional step that depends on the General parameter. The app allows to report the material issue related to the external process.
Automatic pre-assign function is supported.

IMPORTANT:C:\docu\beas-helpfiles\english

- External Purchase Order Creation is only available for Basic license. The terminal options are only to process the inventory transactions.

- This app does not create any receipts for finished products - does not register the product or close the operation.

- The "Exceeding planned quantity allowed" production configuration setting affects the External: Issue Provision app. ***See*** Configuration setting.

See basic WebApp controls in General Information on WEB APPS Version 2.1.
See Configuration wizard settings of the Web Terminal.

Header

In this tab you can identify the Goods Receipt Purchase order. The user can search by Goods Receipt PO number or Supplier.

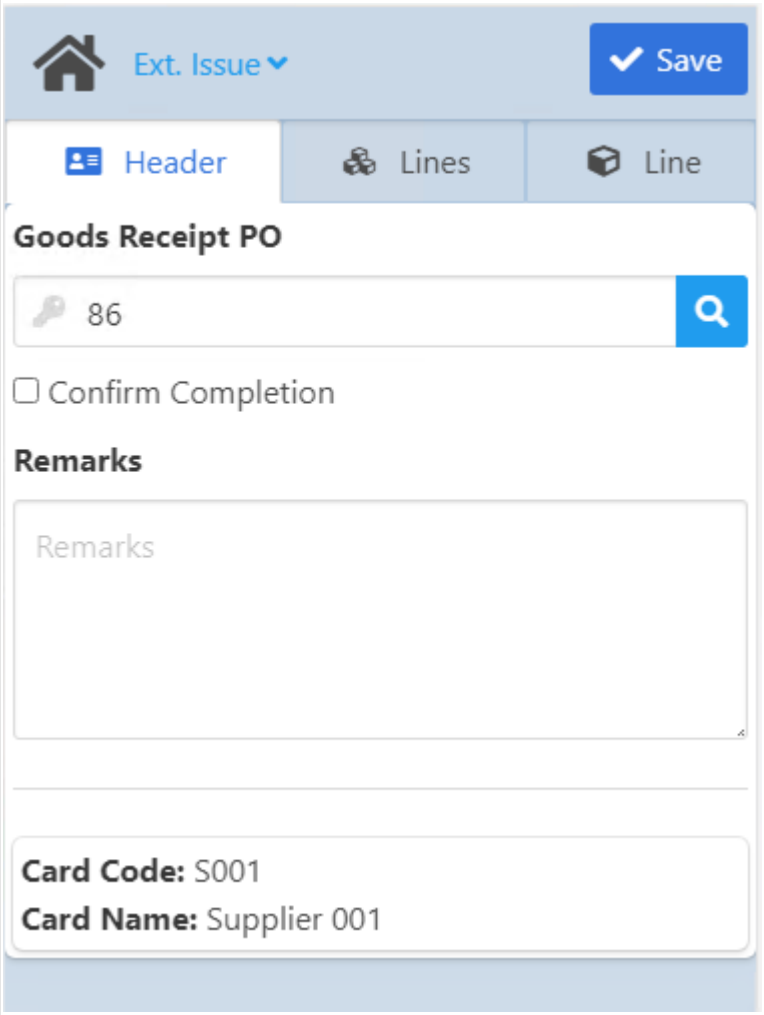
© 2026 Boyum IT Solutions A/S

Scanner can be used at GRPO number: (similar to Goods Receipt apps)

For the search the system allows filtering by:

- GRPO number / line
- Supplier ID
- Supplier name (visible in tablet mode)

Once the Purchase Order is identified, the Header displays the relevant information:



Field Descriptions

Field	Descriptions
Purchase Order	Goods Receipt Purchase Order number
Confirm completion	☐ Close the process

© 2026 Boyum IT Solutions A/S

Field	Descriptions
	- Close the Issue process - The Routing position will be closed if * this is not the first operation and parameter "Automatic Material posting" is first operation. * this is not the last operation. Why: In the first or last operation, an additional backflushing processes can be triggered. in the last operation, the assembly will be receipted. For these processes the program needs more information which is not available in this moment. Check box option to close operation when creating the issue document. It assists to process the operation after backflushing.
Remarks	Additional information
Card Code	Supplier code
Card Name	Supplier name

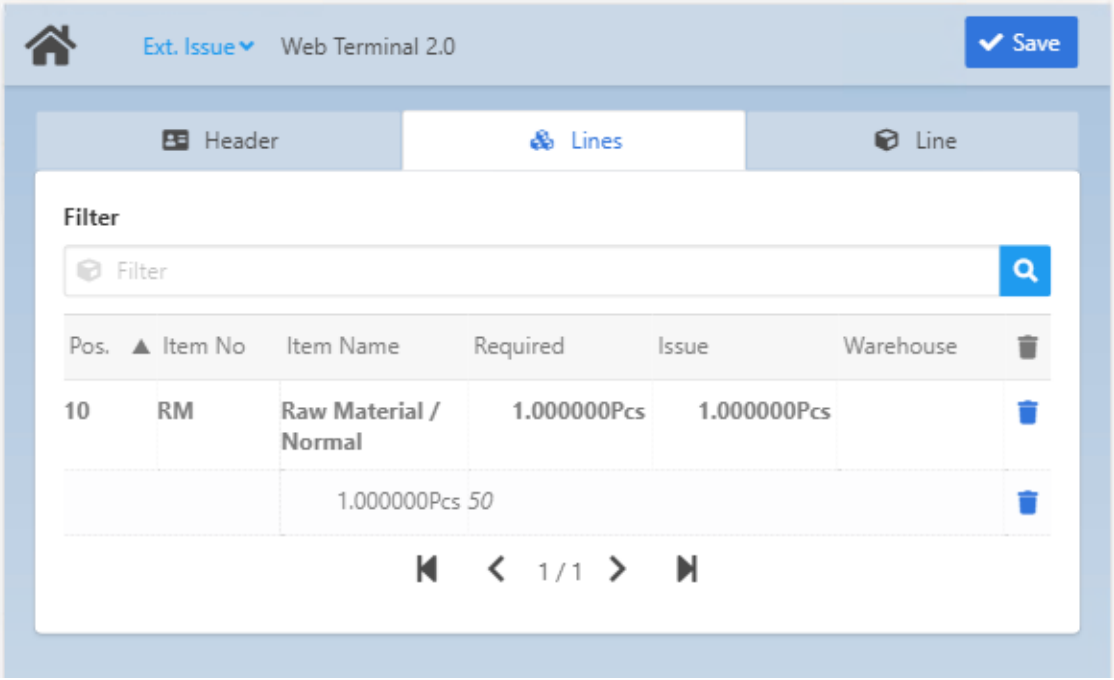
Note: It is recommended NOT to have the external operation as the last operation of the routing, as when the last (reportable) position is reported, the assembly is automatically entered and the WO position is closed (if applicable).

Lines

This tab provides a read-only list of items by position numbers. Select an item in the list to be issued.

By clicking on an item line, the app automatically switches to the Line tab. Once you have pre-assigned quantities for an item in the Line tab, these quantities appear in secondary lines below the line in this tab. With the recycle bin icon, here you can delete a pre-assigned item completely or delete the selected pre-assigned quantity of the line in its secondary line.

© 2026 Boyum IT Solutions A/S



Field Descriptions

Field	Descriptions
Filter	Search for an item. Note on WMS Quality Status filtering **WMS Integration -** When working with a WMS database, and connected Produmex Add-On, the list is filtered based on the **Produmex WMS Add-On > Organizational structure > Quality Status >"Can be used for production"**. If the "Can be used for production" field is active, this BEAS screen section only displays WMS items that were set to "Released" status in WMS. NOTE: WMS quality status is not defined per serial number. For this reason, all serial numbers of the same LUID will be displayed in the material issue list, even if they have different WMS quality statuses. Only quantity available in an unblocked for production status can be

© 2026 Boyum IT Solutions A/S

Field	Descriptions
	issued. ***See*** further, up-to-date information on WMS-BEAS integration.
Pos.	Position number
Item No.	Item number
Item Name	Item name
Required	Required quantities. ▪ Red: when Open Quantity is > 1 ▪ Green= When open Quantity is 0 ▪ Yellow= When open Quantity is < 0 (negative) when reserved qty is more than planned.
Issue	Quantity to be issued
Warehouse	Warehouse for the provision issue. The value is fixed according to the selected warehouse

Line

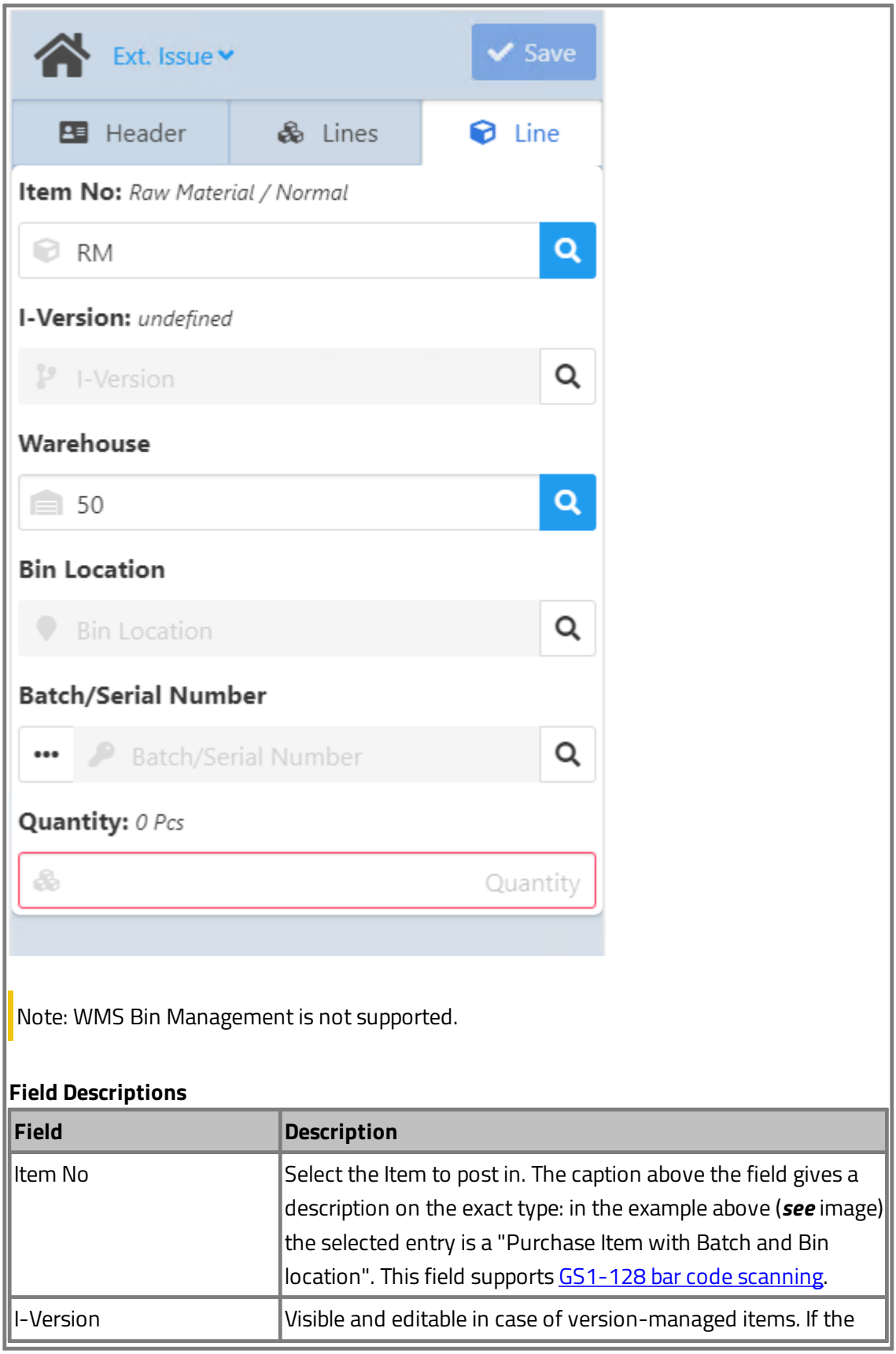
In this tab you can edit and enter details for the issue of the selected line in the Lines tab.

Save: Once you have added all mandatory information, you can press this button to create the issue for the selected provision(s)

Important: In the desktop version Beas offers two buttons to handle partial or complete time receipt. ***See*** Issuing provision parts Edit

Here, having only the **Save** button, the time receipt is processed according to the selection in the check box "Confirm completion".

© 2026 Boyum IT Solutions A/S



Note: WMS Bin Management is not supported.

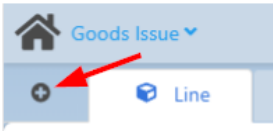
Field Descriptions

Field	Description
Item No	Select the Item to post in. The caption above the field gives a description on the exact type: in the example above (***see*** image) the selected entry is a "Purchase Item with Batch and Bin location". This field supports GS1-128 bar code scanning.
I-Version	Visible and editable in case of version-managed items. If the

© 2026 Boyum IT Solutions A/S

Field	Description
	item has several versions, you can select the version with the magnifying glass or simply start typing it in the field. When the item is batch-managed, this field also shows the number of selected batches. Note: It is only possible to create a manual receipt of an item version with "Released" status.
Warehouse	Select the warehouse for the goods receipt. After the selection, the Warehouse code is displayed. The exact name of the warehouse and the actual number of items in the warehouse are indicated in brackets above the field. The last used Warehouse is automatically stored and used by the system at the next document creation.
Bin Location	Select bin location. When selecting a bin warehouse, this field is activated to select a bin location for the item. The actual number of items in the bin is indicated in brackets above the field. Receipt Rules Issue Rules Limitation of Beas Bin Management: - RFID definition is not supported -Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse. Limitation of SAP Bin Management: - not all Bin Rules are supported in the current view - Weight/Volume are currently not supported in the current view - Batch/Serial Extended selection: It is not possible to select multiple bin locations from an SAP Bin-managed warehouse or Beas bin-managed warehouse.
Batch/Serial Number	Define a Batch/Serial number

© 2026 Boyum IT Solutions A/S

Field	Description
	The … opens the "Batch/Serials: Extended Information" screen. In this application you can edit all applicable fields (in "Receipt mode" – ***see*** link below). It is possible to create a goods receipt for a number of batches/serials of the same item with the plus icon. The field in the main screen then displays the number of selected batches – ***see*** image above. **WMS Integration:** Batch attributes are supported. ***See*** Receipt mode, field names and accessible fields in Extended information screen. Note: If mandatory information is missing in the Extended information screen, the Batch/Serial Number field will indicate it with a red border in the main screen, even though the field itself is not empty. In case of a serial-managed item, the serial mode is automatic: you can leave the serial field empty, and the quantities will be picked automatically by Beas. On how to input a large number of serials ***see*** Massive serial input. **IMPORTANT:** If you wish to add other serial numbers in different bin locations, you must insert an additional line by pressing "+":  .
Quantity	Provide the quantity of the items to be issued. The Unit of measure is indicated above the field (***see*** image above) and called from the item master data. Note: Units of measure may be entered with decimals but using the up and down selection arrows in the right side of the field can only

© 2026 Boyum IT Solutions A/S

Field	Description
	provide rounded values.

WMS integration: In Batch/Serial number field, tap the magnifying glass icon to filter by LUID.

Note: It is not possible to do so with the Batch/Serial Extended Information screen.

See other apps for external operations:

External: Deliver Provisions

External: Goods Receipt Purchase Order

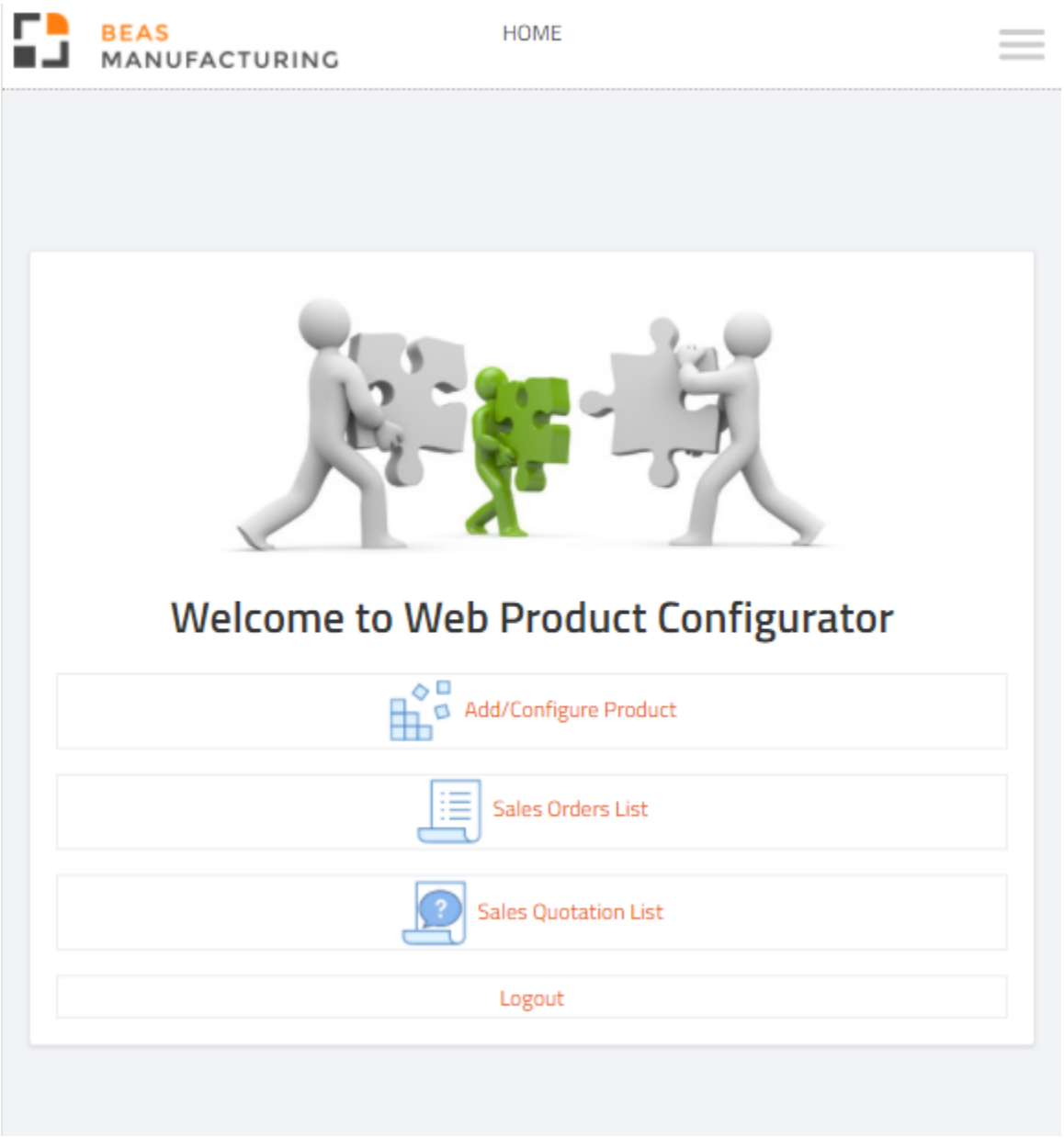
17.5 Web Product Configurator

If an item has a configuration stored in the system, it can be further configured in the Web solution. It is possible to create and cancel Sales documents, login as a customer or a sales employee, and depending on the various settings, the user can view and manage Sales orders/quotations lists.
See the different basic settings in the Web Product Configurator Setup.

LICENSE CONSIDERATIONS:

Concurrence of users (User, Customer, Employee). Every Session takes one license.
WebApps: The user must choose "Logout", otherwise it can take up to 10 minutes before the License is free for other sessions.

© 2026 Boyum IT Solutions A/S

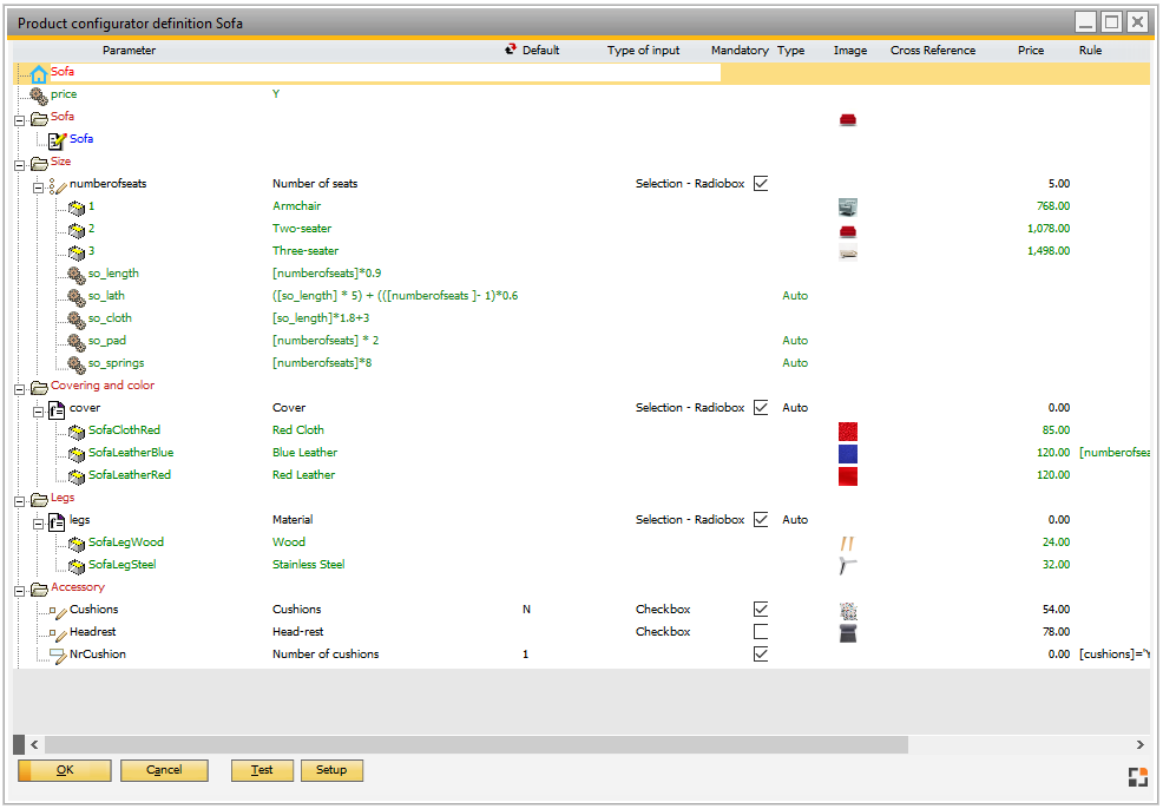


Settings before launching the Web Product Configurator:

- Create an item with a configuration

Configure an item in the Product Configurator Definition:

© 2026 Boyum IT Solutions A/S



See Configuration

- Create a Beas service

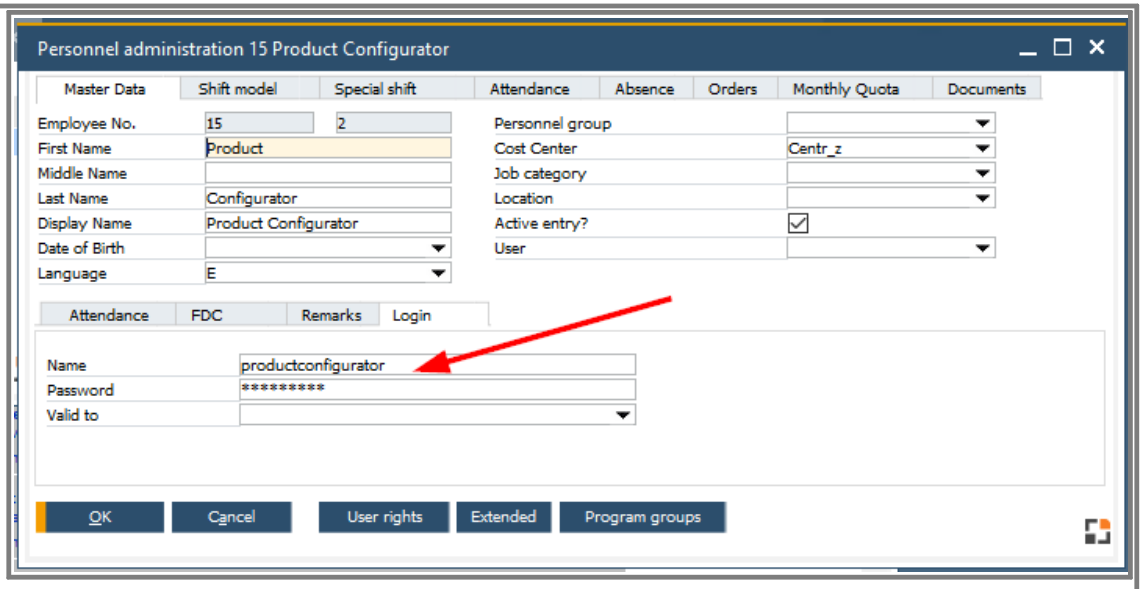
Create a Beas service in the Beas Manage Server, and enable the Web Application Server.
Enter port number and activate "Start Server" in the WEB Server window.

- Login

  - Login as Sales employee

Go to user and password set up in **HR > Personnel > Login tab**.
The function searches for the first user with login information inside.

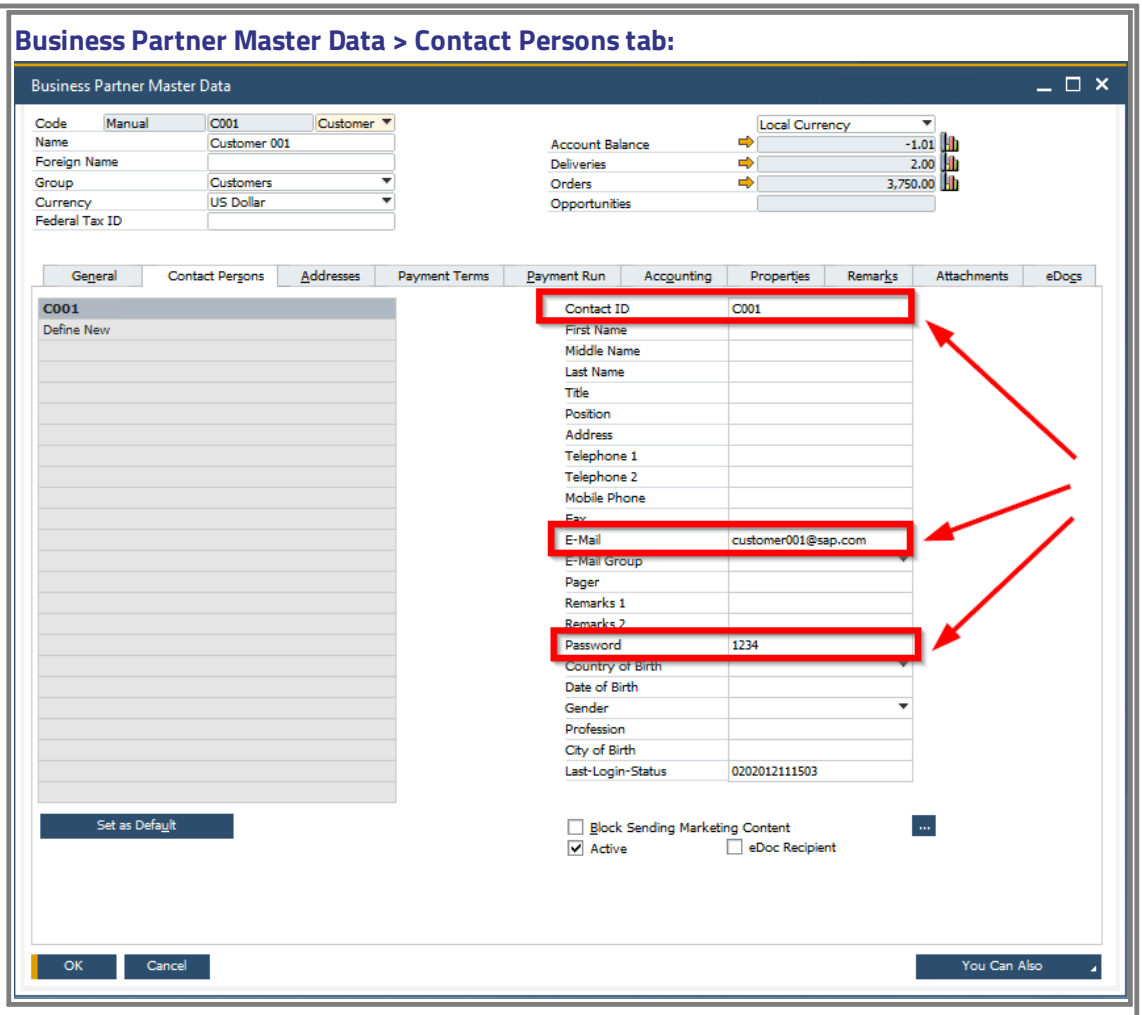
© 2026 Boyum IT Solutions A/S



Login as Customer

A customer must be stored for the login. A contact person, an email address and a password are stored in this customer entry in **SAP Business One > Business Partners >**

© 2026 Boyum IT Solutions A/S



Login protection:

If the user tries to login 3 times with a wrong password, the system locks the user for 2 hours. This prevents a bot attempting a brute force attack based on a dictionary.

See Logon and Edit Personnel Master data.

See functions and field descriptions in Web Product Configurator User interface.

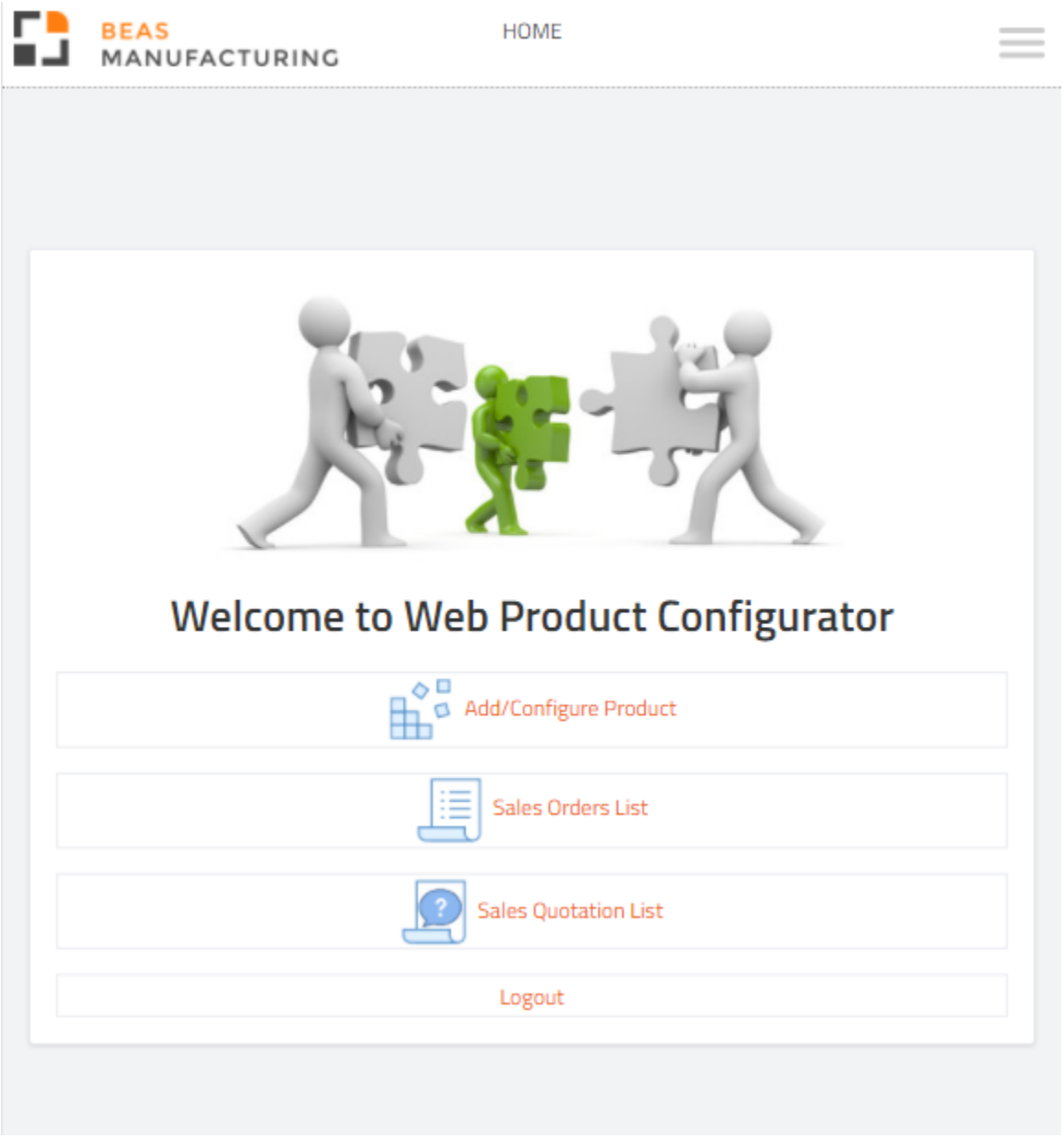
17.5.1 Web Product Configurator – User Interface

This chapter provides a detailed description of the user interface of the Web Product Configurator.

Note: Before working with the Web Product Configurator ***see*** the different Basic settings.

HOME screen

© 2026 Boyum IT Solutions A/S



Field descriptions

Field	Description
Change/Select a Customer	Only visible when logged in as a Sales Employee. Click menu entry and the "Select Customer" screen opens with Card Code/Name filters.
View Cart (x items)	Only visible when cart already contains item configurations created with the Web Product Configurator.

© 2026 Boyum IT Solutions A/S

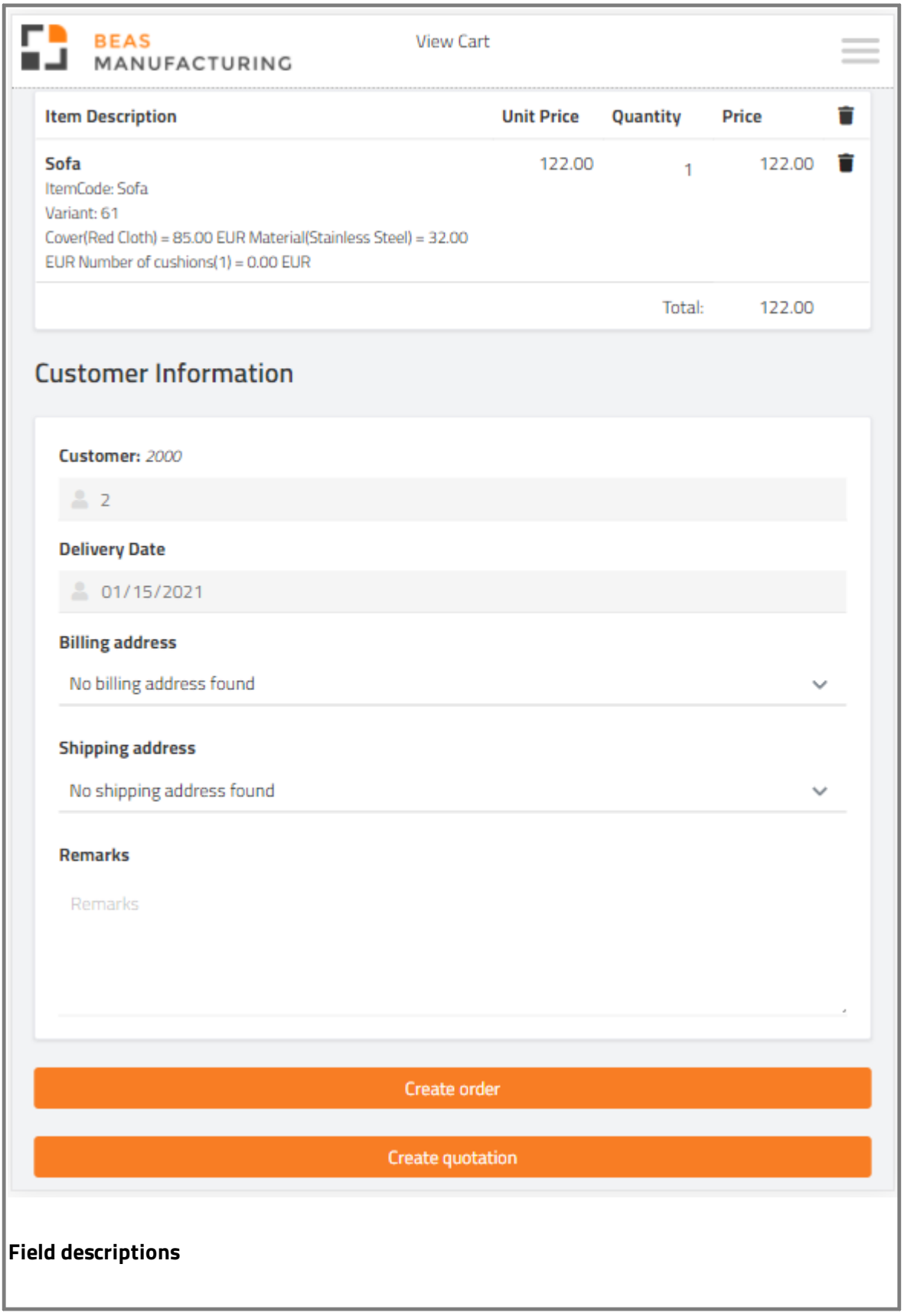
Field	Description
Add/Configure Product	Create a new product configuration.
Sales Orders List	Displays the list of sales orders. ***See*** settings.
Sales Quotations List	Displays the list of sales quotations. ***See*** settings.
Logout	Log out with the current user.
Welcome XY	Displays the name of the logged in user. - Visible in the collapsible menu on the right.
Customer	Customer code. - Visible in the collapsible menu on the right.

The collapsible menu on the right contains the same menu entries.

- View Cart

  In this screen the user can manage item configurations added to their cart.

© 2026 Boyum IT Solutions A/S



Field descriptions

© 2026 Boyum IT Solutions A/S

Field/Function	Description
Item Description	The description of the item, containing all details of the configuration (materials, colors, prices etc.)
Unit Price	Unit Price
Quantity	Quantity to be ordered.
Price	Total price. The logo of the actual currency (for example "$" or "€") is displayed right of the value.
Customer information	
Customer	Customer code. Visible when logged in as a Sales employee.
Requirement Date	Requirement date of the document to be created. For Sales orders: "Delivery date" For Sales quotation: "Valid until"
Billing Address	The address to which the order should be invoiced.
Shipping Address	The address where the order should be transported.
Remarks	Free text for notes regarding the order.
Create the order	Click this (orange color) button to create the sales order. - Visible if set up in Document settings.
Create quotation	Click this (orange color) button to create the sales quotation. - Visible if set up in Document settings.

- Add/Configure Product

In this screen you can select an item configuration to edit and create a new configuration.

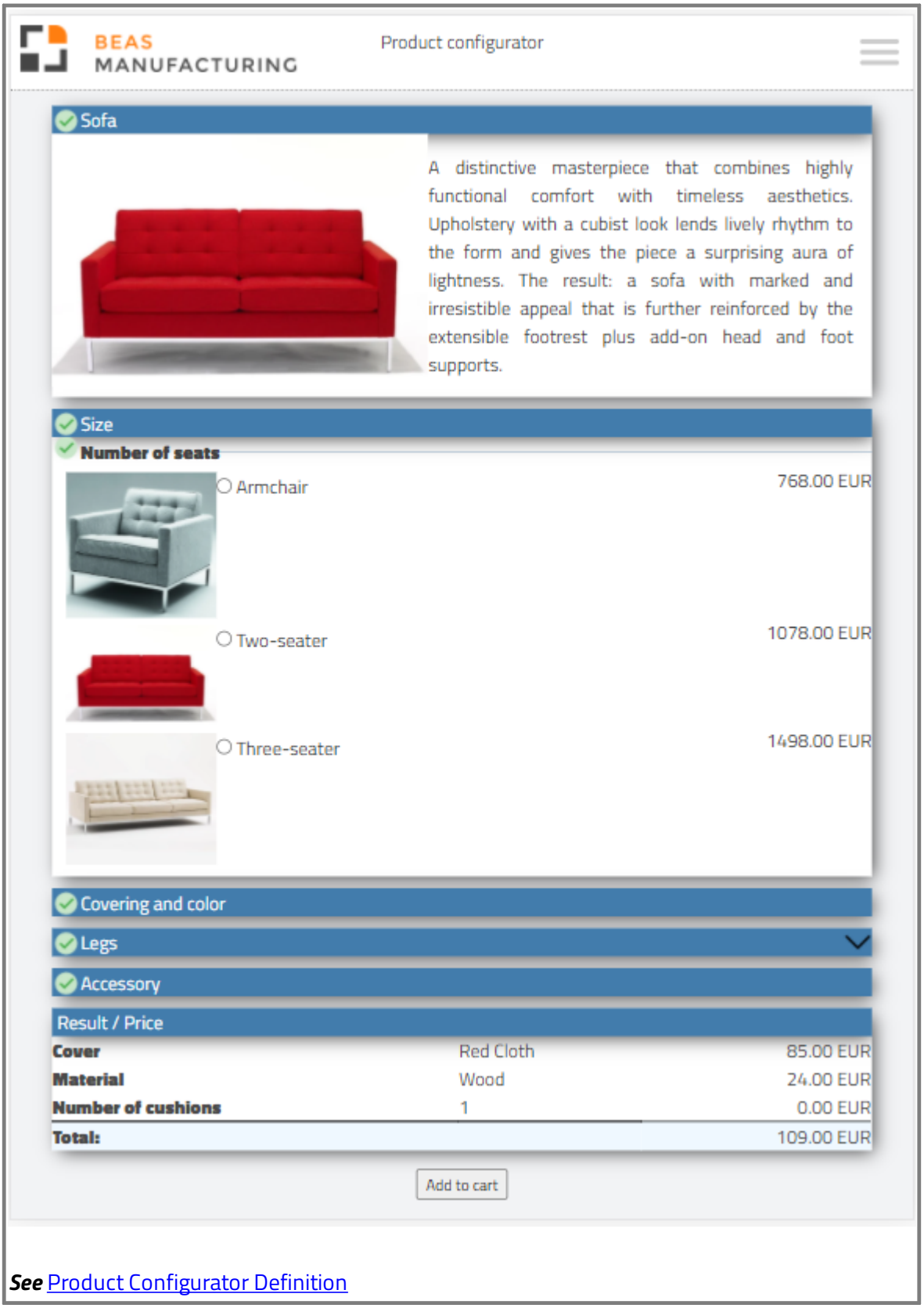
Field	Description
Item Code/Item Name	Enter an item code- or name to filter the list.

© 2026 Boyum IT Solutions A/S

Field	Description
Filter	Click the button to filter according to input of the ItemCode field.
Image	Default image set up in the Product Configuration Definition.
Description	Short description of the item.

After selecting an item from the list, the configurator interface opens. Once all mandatory selections are made, you can add the new configuration to the cart.

© 2026 Boyum IT Solutions A/S



See Product Configurator Definition

- Sales Orders List

© 2026 Boyum IT Solutions A/S

The Sales orders list contains all sales orders that are made visible for the user based on the Document settings.

Field/Function	Description
Doc Date (from-to)	Two (From-To) fields to list all available sales orders that were created in that period. Click on the calendar icon right of the field. Dates are provided in mm/dd/yyyy format.
Filter	Click the filter button to list sales orders according to the Doc Date selections.
DocNum	Sales order document number.
Status	Status of the Sales order: open, partially open, or closed.
ReqDate	Requirement date for the total quantity.
Total	Total price.
CUR	Currency.

- Sales Quotation List

The Sales quotations list contains all sales orders that are made visible for the user based on the Document settings.

Field/Function	Description
Doc Date (from-to)	Two (From-To) fields to list all available sales orders that were created in that period. Click on the calendar icon right of the field. Dates are provided in mm/dd/yyyy format.
Filter	Click the filter button to list sales orders according to the Doc Date selections.
DocNum	Sales order document number.
Status	Status of the Sales order: open, partially open, or closed.
ReqDate	Requirement date for the total quantity.
Total	Total price.
CUR	Currency.

- Sales order view

© 2026 Boyum IT Solutions A/S

Field /Function	Description
Customer	Customer code.
Name	Customer name.
Contact Person	Contact person set up in **SAP Business One > Business Partners > Business Partner Master Data > Contact Person.**
Customer Ref.	Customer reference number. For example "WebOrder"
No.	Sales order document number
Status	Sales order status: Closed, Open
Posting Date	The posting date of the product. Format in mm/dd/yyyy.
Delivery Date	Delivery date.
Document Date	The date when the sales order was created. Format in mm/dd/yyyy.
Image	Default image set up in the Product Configuration Definition.
Description	Description of the item
Quantity	Ordered quantity.
Price	Price of one unit per line.
Total	Total price of all units per line.
Sales Employee	The Sales employee provided in the SAP BusinessOne Sales order document.
Remarks	Free text.
Cancel Sales order	Click this button to cancel the sales order/quotation. ***See*** Allow to cancel sales orders. The "Cancel Document" dialog box appears where you can confirm cancellation. Note: If a work order has been created from the sales order, the function is not available, and the button does not appear.

© 2026 Boyum IT Solutions A/S

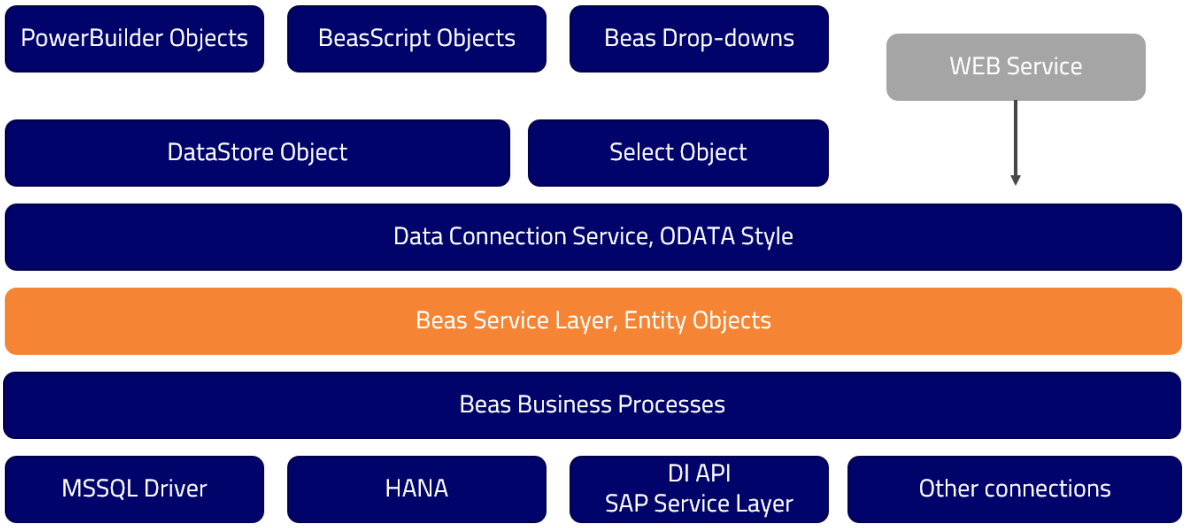
Back to Web Product Configurator

17.6 Beas service layer

The Beas service layer is a middle layer between the application and the database.

The Beas service layer is a new generation of extension API for consuming Beas and SAP Business One data and services.

It builds on a core protocol, such as HTTP and OData, but you can also use it with Beas script, macro script, or PowerBuilder.
BSL provides a uniform way to expose full-feature business objects on top of highly scalable, high-availability applications.
Service layer currently supports OData versions 2, 3 and 4 (with limited compatibility).



For more information ***see*** BSL Documentation

© 2026 Boyum IT Solutions A/S

18 Beas dashboards

Beas dashboards is a field- and visualization tool that is available in Beas with the B1 Usability Package. A set of dashboards are available out of the box.

Concept

The Beas Analytical Insights are a set of dashboards that comprehends a great amount of analysis over several areas and modules of the software, offering valuable information and insights that can help you to monitor and grow your business.

Compatibility

The dashboards are compatible to B1UP version 2020.02 or superior.

The Production Scheduling Calendar is compatible to B1UP version 2021.03 or superior.

Beas must be installed on the database for the dashboards to work. All dashboards (including the Production Scheduling Calendar) are compatible to both SQL and HANA environments.

18.1 Prerequisites

To use the Beas dashboards, the following is required:

- Beas 9.3 PL 02 or later
- B1UP 2020.02 or later
- License for SAP with Beas and B1 Usability Package

The dashboards are only available in the Beas desktop application (not in the WebApps terminal).

18.2 Installing and upgrading

Installing the B1 Usability Package

For instructions on installing the B1 Usability Package, follow the *Installation and upgrade guide* that is supplied with the software download package. If this is an initial installation of B1UP, the dashboards are loaded automatically.

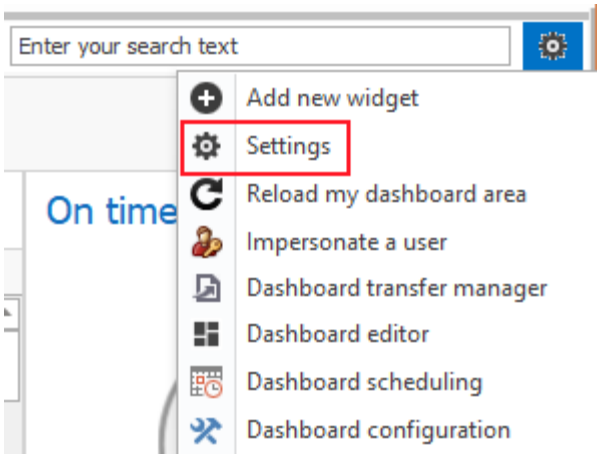
The dashboards automatically load the data from the database that is detected upon the initial run, whether it is SQL or HANA. Any new queries for new dashboard elements must be written in the respective database syntax.

Upgrading the B1 Usability Package

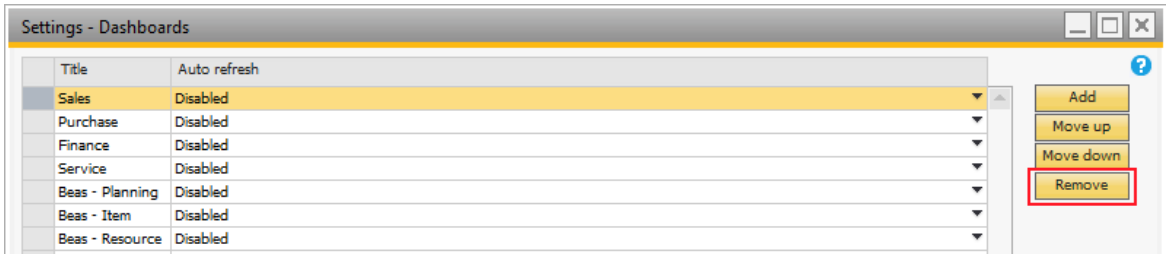
If you are upgrading from a previous version of the B1 Usability Package, follow the installation instructions. In this case, the new dashboards do not load automatically. To load the new views reset the dashboards:

© 2026 Boyum IT Solutions A/S

1. Go to Settings.



2. Select a row and click the **Remove** button.



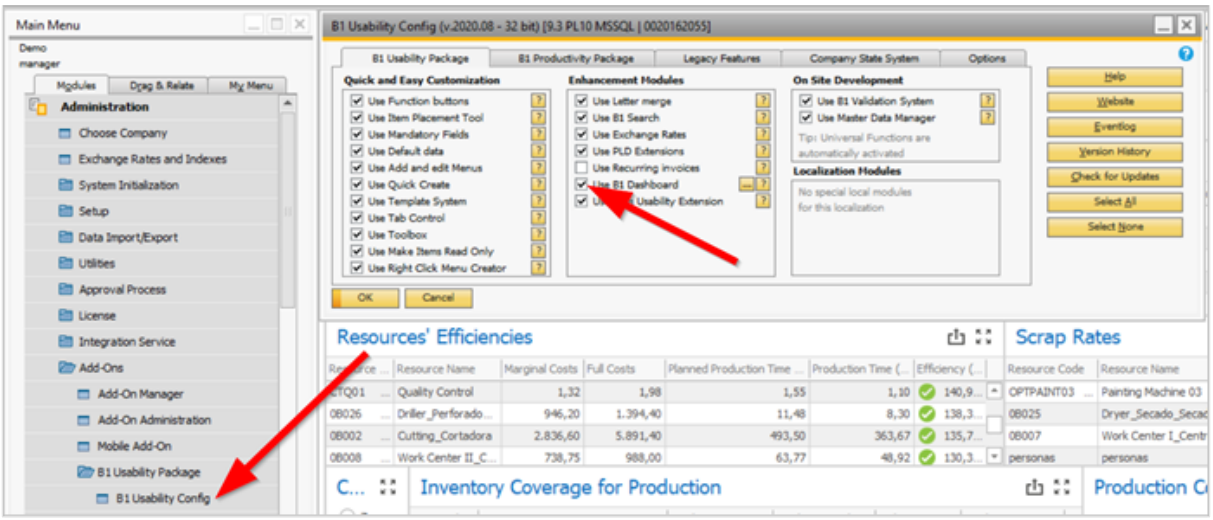
3. Repeat for all dashboards in the list.
4. Click the **Update** button.

The views are all reloaded, including the new views. This process should be repeated for all users.

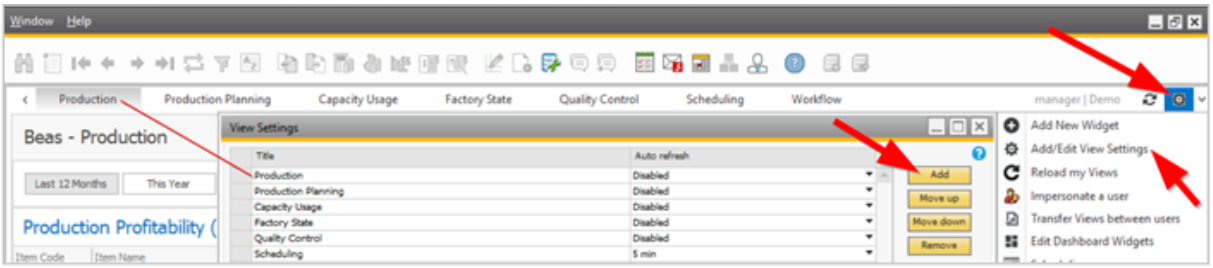
18.3 Installing the Dashboards

To install the dashboards, you need to activate the B1 Dashboard feature first. You can do it on the B1 Usability Configurations:

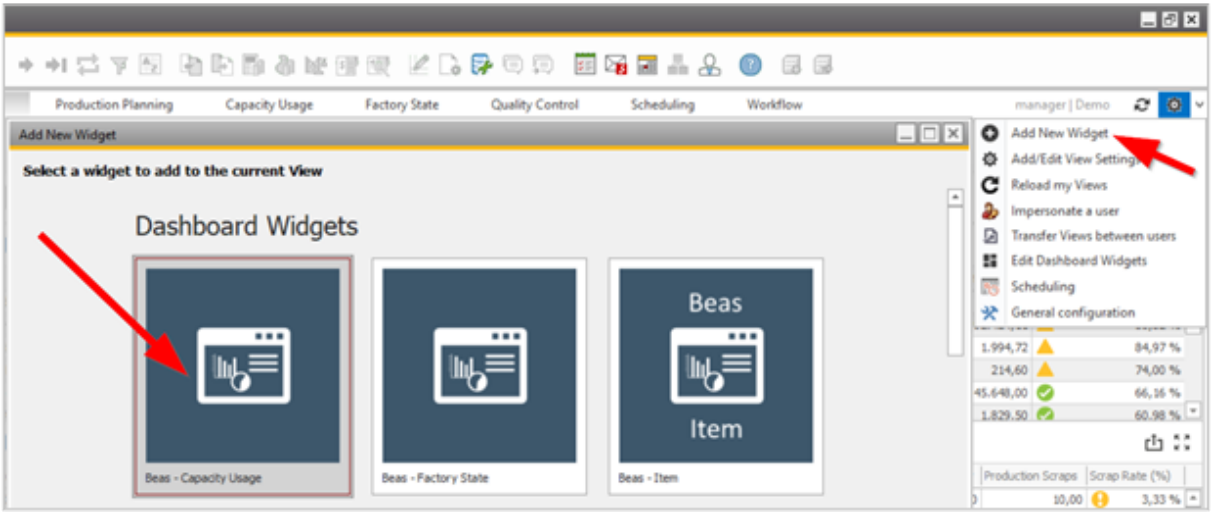
© 2026 Boyum IT Solutions A/S



After that, you can add the dashboard sections by selecting “Add/Edit View Settings” and clicking on “Add”.



Then, you just need to click on “Add New Widget” and select the ones corresponding to each dashboard section.



In this video, you can find more information about the B1Up dashboards. The dashboards can also be accessed from a web browser, by activating the web dashboards feature. If you want to enable the dashboards for web access, please check this video on how to do it.

© 2026 Boyum IT Solutions A/S

18.4 Language

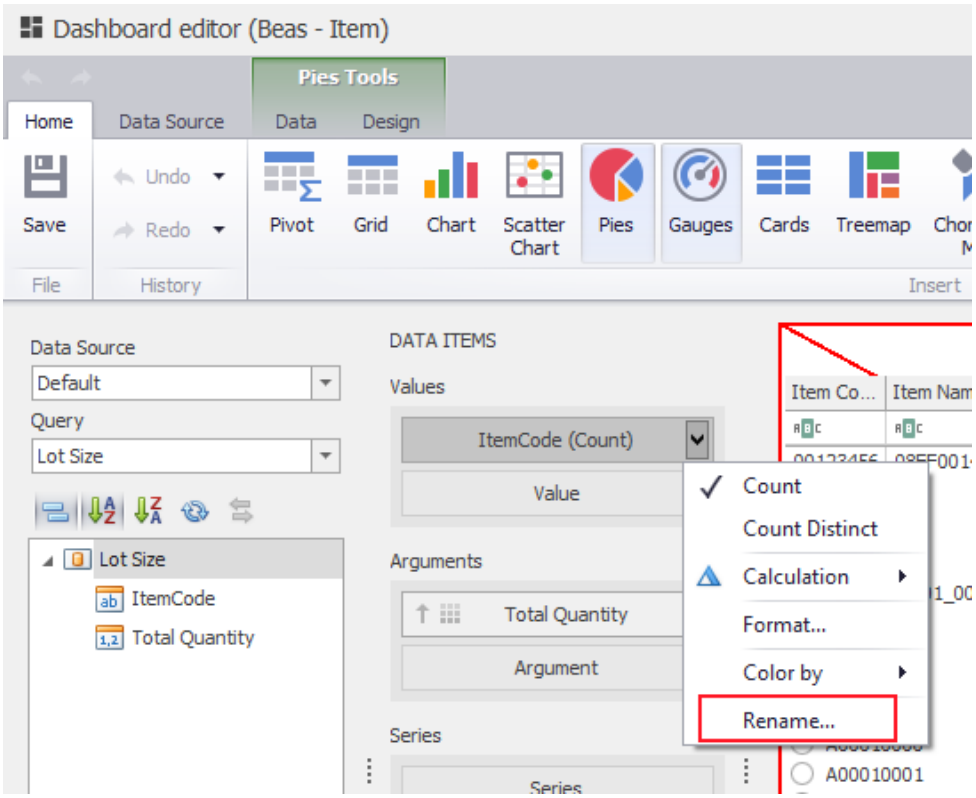
The dashboards are delivered in English. Field names can be customized using the Dashboard editor.

It is also possible to use keywords from the B1 Translation system. For details ***see*** the B1 Usability Package online help.

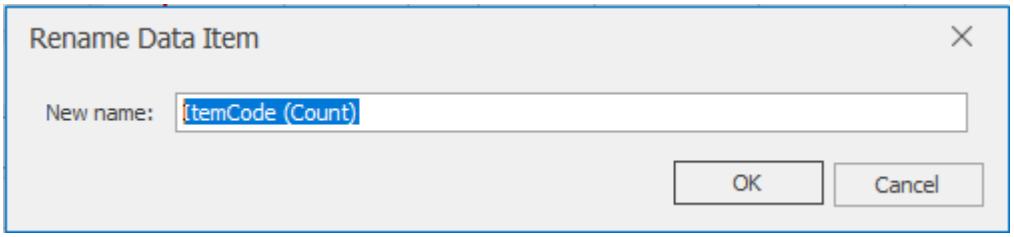
18.4.1 Customizing field names

Administration > Add-ons > B1 Usability Package > Module Configuration > B1 Dashboard > Dashboard editor

1. Go to the Dashboard editor.
2. Select the dashboard to modify and click the **Edit** button.
3. To change the text on an item, click the drop-down arrow and choose **Rename...**.



4. Type the new or translated name and click the **OK** button.



For more information on the Dashboard editor, refer to the B1 Usability Package online help.

© 2026 Boyum IT Solutions A/S

18.5 Using the dashboards

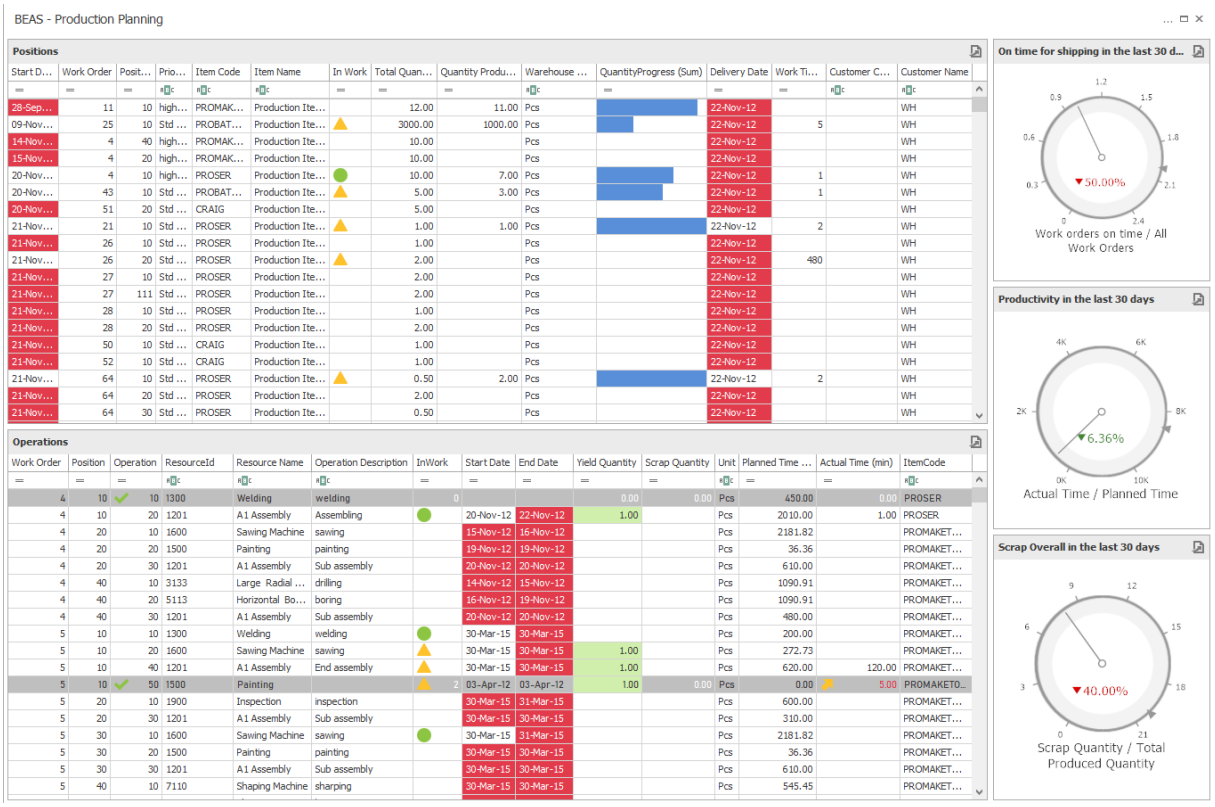
The following dashboards are available for Beas:

- Production Planning dashboard
- Resource dashboard
- Item dashboard
- Production Analysis
- Capacity Usage
- Factory States
- Production Scheduling Calendar
- Maintenance Dashboard
- Maintenance Calendar

18.5.1 Production Planning dashboard

The production planning dashboard has several areas for different sets of information:

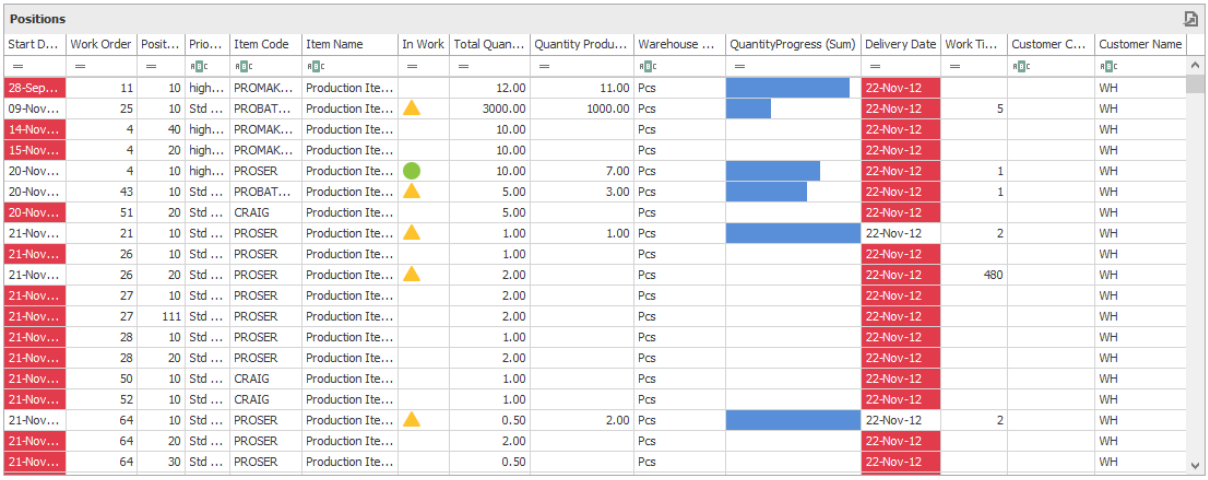
- Positions area
- Operations area
- Gauges



© 2026 Boyum IT Solutions A/S

18.5.1.1 Positions area

Work order Progress - Positions



Positions

Start D...	Work Order	Posit...	Prio...	Item Code	Item Name	In Work	Total Quan...	Quantity Produ...	Warehouse ...	QuantityProgress (Sum)	Delivery Date	Work Ti...	Customer C...	Customer Name
28-Sep...	11	10	high...	PROMAK...	Production Ite...		12.00	11.00	Pcs		22-Nov-12			WH
09-Nov...	25	10	Std ...	PROBAT...	Production Ite...	▲	3000.00	1000.00	Pcs		22-Nov-12	5		WH
14-Nov...	4	40	high...	PROMAK...	Production Ite...		10.00		Pcs		22-Nov-12			WH
15-Nov...	4	20	high...	PROMAK...	Production Ite...		10.00		Pcs		22-Nov-12			WH
20-Nov...	4	10	high...	PROSER	Production Ite...	●	10.00	7.00	Pcs		22-Nov-12	1		WH
20-Nov...	43	10	Std ...	PROBAT...	Production Ite...	▲	5.00	3.00	Pcs		22-Nov-12	1		WH
20-Nov...	51	20	Std ...	CRAIG	Production Ite...		5.00		Pcs		22-Nov-12			WH
21-Nov...	21	10	Std ...	PROSER	Production Ite...	▲	1.00	1.00	Pcs		22-Nov-12	2		WH
21-Nov...	26	10	Std ...	PROSER	Production Ite...		1.00		Pcs		22-Nov-12			WH
21-Nov...	26	20	Std ...	PROSER	Production Ite...	▲	2.00		Pcs		22-Nov-12	480		WH
21-Nov...	27	10	Std ...	PROSER	Production Ite...		2.00		Pcs		22-Nov-12			WH
21-Nov...	27	111	Std ...	PROSER	Production Ite...		2.00		Pcs		22-Nov-12			WH
21-Nov...	28	10	Std ...	PROSER	Production Ite...		1.00		Pcs		22-Nov-12			WH
21-Nov...	28	20	Std ...	PROSER	Production Ite...		2.00		Pcs		22-Nov-12			WH
21-Nov...	50	10	Std ...	CRAIG	Production Ite...		1.00		Pcs		22-Nov-12			WH
21-Nov...	52	10	Std ...	CRAIG	Production Ite...		1.00		Pcs		22-Nov-12			WH
21-Nov...	64	10	Std ...	PROSER	Production Ite...	▲	0.50	2.00	Pcs		22-Nov-12	2		WH
21-Nov...	64	20	Std ...	PROSER	Production Ite...		2.00		Pcs		22-Nov-12			WH
21-Nov...	64	30	Std ...	PROSER	Production Ite...		0.50		Pcs		22-Nov-12			WH

This table displays work order positions and provides information about their completion progress. The table uses color-coding to show progress and delays, depending on the start and delivery date. It also shows the quantity that has been produced. The grid selects the positions using a data range. The default data range is as follows:

- All positions (opened and closed positions) between the previous day and the next 7 days.
- All positions (opened and closed positions) with delivery date between the last 5 days and the next day.
- All open positions (from open work orders only) with start date in the past (earlier than the previous day).

Adjusting the date range

The number and operator can be changed using SQL `(GETDATE() - 5)` or SAP HANA `add_days(current_date, -5).` The number is always interpreted as the number of days which is added or subtracted depending on the operator. The result includes date and time in MSSQL, but not in HANA.

Date	MSSQL	HANA
Previous day	`(GETDATE() - 1)`	`add_days(current_date, -1)`
Next day	`(GETDATE() + 1)`	`add_days(current_date, +1)`
Last five days	`(GETDATE() - 5)`	`add_days(current_date, -5)`

© 2026 Boyum IT Solutions A/S

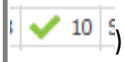
Date	MSSQL	HANA
Next five days	`(GETDATE() + 5)`	`add_days(current_date, +5)`

It is sometimes useful to get all the work orders from the previous day, regardless of the time of the day in SQL. For example, if today is `"2019-01-10 10:28:00"` the expression `(GETDATE() - 1)` results in `"2019-01-09 10:28:00"`. The time is the same, which means that if the query is set to give the work orders from the previous day, it omits the work orders that happened during that day before the current time `10:28:00`. It is possible to get the date at 00:00 using the expression:
Previous day at 00:00:00: `DATEADD(DAY, DATEDIFF(DAY, 1, GETDATE()), 0)`

Last 30 days 00:00:00: `DATEADD(DAY, DATEDIFF(DAY, 30, GETDATE()), 0)`

Auto filter row

The first row of the position table is an auto filter row which allows the user to filter for specific information in a column - for example, search for a specific work order number or a specific date. The filter for each row works as follows:

Column	Description	Table Field
Start Date	Start date of the position. **Red:** The position was supposed to be started (before the current day), but it is not in progress.	View: `BEASV_WORKORDER_POS.StartDate`
Work Order	Work order number.	View: `BEASV_WORKORDER_POS.DocEntry`
Position	Position number in the work order. A green checkmark in this field indicates that the position is closed (). If the position is closed the row will be completely **green**.	View: `BEASV_WORKORDER_POS.LineNumber`
Priority	Priority of the work order.	View: `BEASV_WORKORDER_POS.Priority`
Item Code	Item Code.	View: `BEASV_WORKORDER_POS.ItemCode`
Item Name	Item Name.	View: `BEASV_WORKORDER_POS.ItemName`
InWork	0-Blank: No work started on position.	View: `BEASV_WORKORDER_POS.InWork`

© 2026 Boyum IT Solutions A/S

	1-Green Icon: Active position, that has an active work order. **2-Yellow Icon:** A position that has time receipts, but is not active.	
Total Quantity	Total quantity to produce (measured in the warehouse unit).	View: `BEASV_WORKORDER_POS.QuantityWhsUnit`
Quantity Produced	Sum of the quantities that have been produced or received (measured in the warehouse unit).	View: `BEASV_WORKORDER_POS.QuantityProduced`
Warehouse Unit	Warehouse unit.	View: `BEASV_WORKORDER_POS.WhsUnit`
Quantity progress (%)	A blue bar that represents the percentage of the quantity produced out of the total quantity.	**Calculated field** in dashboard: `[QuantityProduced] * 100 / [Total Quantity]`
Delivery Date	Delivery date. **Red:** A position that had to be delivered (before the current day), but the total quantity has not been produced.	View: `BEASV_WORKORDER_POS.DELIVERYDATE`
Work Time (min)	Total time of work in minutes for the position.	View: `BEASV_WORKORDER_POS.WORKTIME`
Customer Code	Customer code.	View: `BEASV_WORKORDER_POS.CardCode`
Customer Name	Customer name.	View: `BEASV_WORKORDER_POS.CardName`

MSSQL examples of the Work order progress - Positions grid queries

```
-- All positions (opened and closed) between the previous day (at 00:00) and the next 7 days:

(("BEASV_WORKORDER_POS"."StartDate" > DATEADD(DAY, DATEDIFF(DAY, 1, GETDATE()), 0)
AND "BEASV_WORKORDER_POS"."StartDate"< (GETDATE()+7) )

-- All the open positions from open work orders only with start date in the past (before the previous day)

OR ("BEASV_WORKORDER_POS"."StartDate"<  DATEADD(DAY, DATEDIFF(DAY, 1, GETDATE()), 0)
AND "BEASV_WORKORDER_POS"."PositionClosed" != 1
AND "BEASV_WORKORDER_POS"."WorkOrderClosed"  != 1 )

--All the positions with delivery in the last 5 days and until the next day
OR  ("BEASV_WORKORDER_POS"."DELIVERYDATE" > (GETDATE()-5) AND "BEASV_WORKORDER_POS"."DELIVERYDATE" < (GETDA
```

HANA examples of the Work order progress - Positions grid queries

© 2026 Boyum IT Solutions A/S

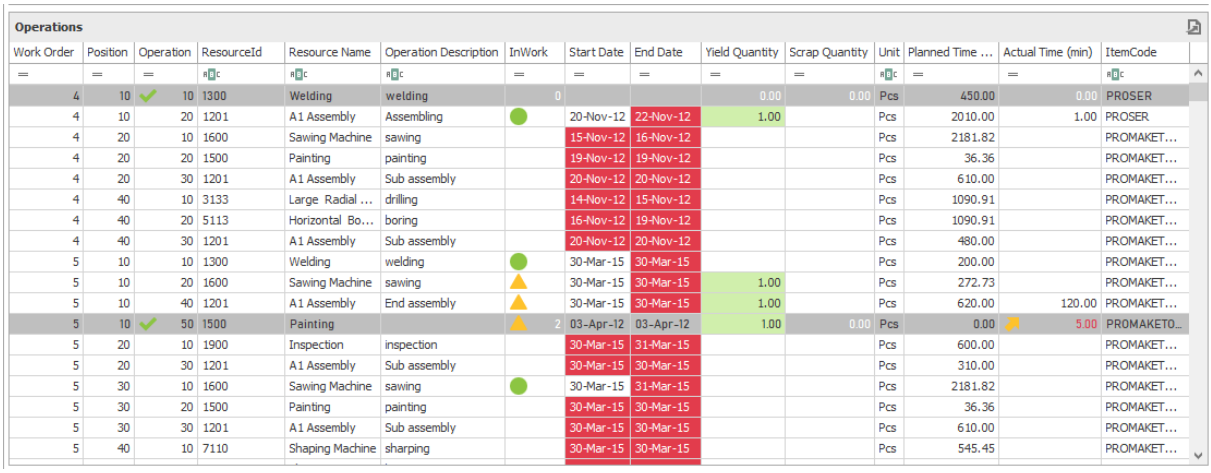
```
-- All positions (opened and closed POSITIONS) between the previous day at 00:00 and the next 7 days)
(("BEASV_WORKORDER_POS"."StartDate" > add_days(current_date, -1)
AND "BEASV_WORKORDER_POS"."StartDate"< add_days(current_date, +7) )

-- All the open positions (FROM OPEN WORK ORDERS ONLY) with start date in the past (before the previous day
OR ("BEASV_WORKORDER_POS"."StartDate" <  add_days(current_date, -1) AND
"BEASV_WORKORDER_POS"."PositionClosed" != 1 AND "BEASV_WORKORDER_POS"."WorkOrderClosed"  != 1 )

--Delivery date: All the positions with delivery in the last 5 days and until the next day
OR ("BEASV_WORKORDER_POS"."DELIVERYDATE"  >  add_days(current_date, -5)
AND "BEASV_WORKORDER_POS"."DELIVERYDATE"  < add_days(current_date, +1)))
```

More information on the date and time functions:

SQL: https://docs.microsoft.com/en-us/sql/t-sql/functions/date-and-time-data-types-and-functions-transact-sql?view=sql-server-2017

Hana: https://help.sap.com/viewer/4fe29514fd584807ac9f2a04f6754767/2.0.02/en-US/209f228975191014baed94f1b69693ae.html

18.5.1.2 Operations area



Work Order	Position	Operation	ResourceId	Resource Name	Operation Description	InWork	Start Date	End Date	Yield Quantity	Scrap Quantity	Unit	Planned Time ...	Actual Time (min)	ItemCode
4	10	10	1300	Welding	welding	0			0.00	0.00	Pcs	450.00	0.00	PROSER
4	10	20	1201	A1 Assembly	Assembling		20-Nov-12	22-Nov-12	1.00		Pcs	2010.00	1.00	PROSER
4	20	10	1600	Sawing Machine	sawing		15-Nov-12	16-Nov-12			Pcs	2181.82		PROMAKET...
4	20	20	1500	Painting	painting		19-Nov-12	19-Nov-12			Pcs	36.36		PROMAKET...
4	20	30	1201	A1 Assembly	Sub assembly		20-Nov-12	20-Nov-12			Pcs	610.00		PROMAKET...
4	40	10	3133	Large Radial ...	drilling		14-Nov-12	15-Nov-12			Pcs	1090.91		PROMAKET...
4	40	20	5113	Horizontal Bo...	boring		16-Nov-12	19-Nov-12			Pcs	1090.91		PROMAKET...
4	40	30	1201	A1 Assembly	Sub assembly		20-Nov-12	20-Nov-12			Pcs	480.00		PROMAKET...
5	10	10	1300	Welding	welding		30-Mar-15	30-Mar-15			Pcs	200.00		PROMAKET...
5	10	20	1600	Sawing Machine	sawing		30-Mar-15	30-Mar-15	1.00		Pcs	272.73		PROMAKET...
5	10	40	1201	A1 Assembly	End assembly		30-Mar-15	30-Mar-15	1.00		Pcs	620.00	120.00	PROMAKET...
5	10	50	1500	Painting		2	03-Apr-12	03-Apr-12	1.00	0.00	Pcs	0.00	5.00	PROMAKETO...
5	20	10	1900	Inspection	inspection		30-Mar-15	31-Mar-15			Pcs	600.00		PROMAKET...
5	20	30	1201	A1 Assembly	Sub assembly		30-Mar-15	30-Mar-15			Pcs	310.00		PROMAKET...
5	30	10	1600	Sawing Machine	sawing		30-Mar-15	31-Mar-15			Pcs	2181.82		PROMAKET...
5	30	20	1500	Painting	painting		30-Mar-15	30-Mar-15			Pcs	36.36		PROMAKET...
5	30	30	1201	A1 Assembly	Sub assembly		30-Mar-15	30-Mar-15			Pcs	610.00		PROMAKET...
5	40	10	7110	Shaping Machine	sharping		30-Mar-15	30-Mar-15			Pcs	545.45		PROMAKET...

Operation Progress-Operations

This table displays all the operations for the date range of the respective position. It provides information about the completion progress of the operation. The table uses color-coding to show delays related to the start and end date as well as the yield quantity that was produced.

Auto filter row

The first row of the position table is an auto filter row, that allows the user to filter for specific information in a column, for example, search for a specific work order number or a specific date.

Column	Description	Table Field
Work Order	Work order number.	View: `BEASV_WORKORDER_ROUTING.DocEntry`
Position Number	Position number in the work order.	View: `BEASV_WORKORDER_ROUTING.LineNumber`

© 2026 Boyum IT Solutions A/S

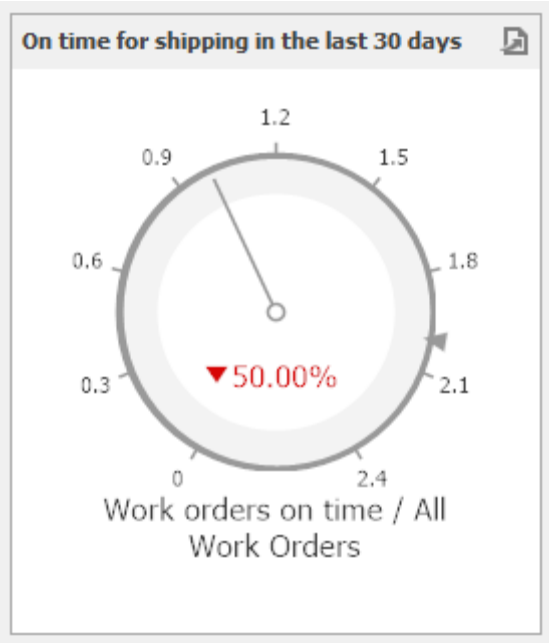
Operation	Operation number in the respective position. **Gray:** The position is closed. The color is applied to the row and a green checkmark appears next to the operation number. 	View: `BEASV_WORKORDER_ROUTING.LineNumber2`
Resource Id	Resource ID.	View: `BEASV_WORKORDER_ROUTING.ResourceId`
Resource Name	Resource description.	View: `BEASV_WORKORDER_ROUTING.ResourceDescription`
Operation Description	Operation description.	View: `BEASV_WORKORDER_ROUTING.Description`
InWork	0-Blank: No work started on operation. **1-Green Icon:** Active operation, that has an active work order. **2-Yellow Icon:** An operation that has time receipts, but is not active.	View: `BEASV_WORKORDER_ROUTING.InWork`
Start Date	Start of process. **Red:** The process was supposed to be started (before the current day), but it is not in progress.	View: `BEASV_WORKORDER_ROUTING.ProcesssStartDateTime`
End Date	End of process. **Red:** The process was supposed to be finished (before the current day), but it is not in progress.	View: `BEASV_WORKORDER_ROUTING.ProcessEndDateTime`
Yield Quantity	Sum of the receipted goods quantity (in BOM units).	View: `BEASV_WORKORDER_ROUTING.QUANTITYGOOD`

© 2026 Boyum IT Solutions A/S

	1-Green: A position that has partially or fully received the required goods.	
Scrap Quantity	Total scrap quantity (in BOM units).	View: `BEASV_WORKORDER_ROUTING.QUANTITYSCRAP`
BomUnit	BOM unit.	View: `BEASV_WORKORDER_POS.BomUnit`
Planned Time	Sum of the planned time for work in minutes.	View: `BEASV_WORKORDER_ ROUTING.PlannedTime`
Actual Time	Total time of work in minutes. **Yellow Icon:** The actual time is more than the planned time and the numbers in this column is therefore **red**. 420.00	View: `BEASV_WORKORDER_ ROUTING.WORKTIME`
Item Code	Item Code.	View: `BEASV_WORKORDER_POS.ItemCode`

18.5.1.3 Production gauges

On time for shipping in the last 30 days



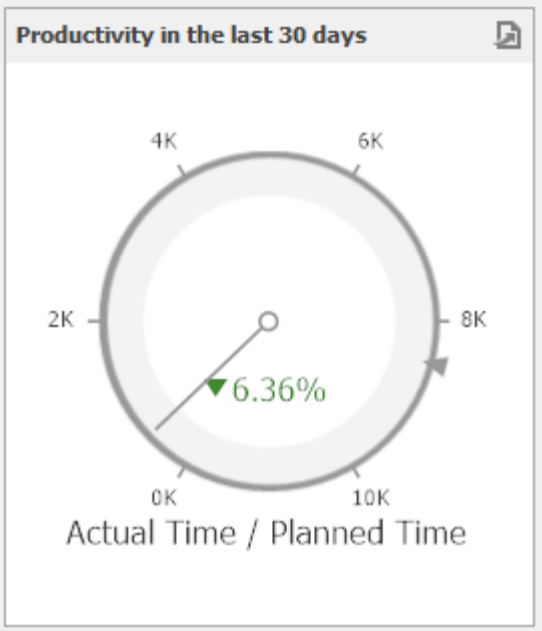
This gauge shows the percentage of work orders which have been finished before or on the end date. This indicator includes only closed work orders by default, and the data range is the last 30 days. This can be changed in the query described in the Positions area.

Data items used	Description	View/Table field
Work orders on time	Count of the closed work orders that have been finished before or on the end date.	Calculated field in dashboard editor: `CountDistinct(Iif([Latest receipt date] <= [End Date], [Work Order], null))`
Work Order	Distinct count of all the closed work.	View: `BEASV_WORKORDER_POS. [DocEntry]`
End date	Scheduled end date of the work orders	View: `BEASV_WORKORDER_POS.[EndDate]`
Last receipt date	Compares the *Last material receipt date* and the *Last work receipt date* and chooses the most recent one.	`CASE WHEN COALESCE("LastMaterialRece THEN COALESCE("LastMaterialRece ELSE COALESCE("LastWorkReceiptD END AS "Latest receipt date" FROM "BEASV_WORKORDER_POS"`
Last material receipt date	Last date when a material was received.	View: `BEASV_WORKORDER_POS.LastMaterialReceiptDate`
Last work receipt date	Last date when work was received.	View: `BEASV_WORKORDER_POS.LastWorkReceiptDate`

Note: The percentage is calculated setting the value type to percent of target in the gauge. The default conditions for the data range are set in the query.

Productivity in the last 30 days

© 2026 Boyum IT Solutions A/S



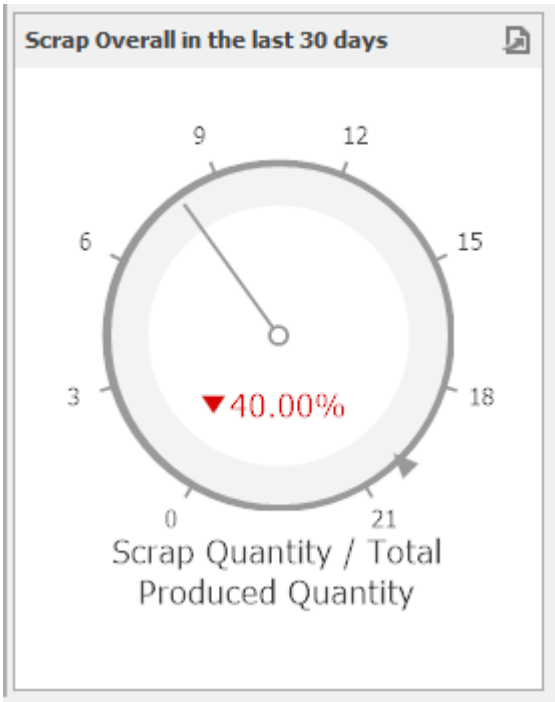
This gauge shows the percentage of the actual total work time compared to the total planned work time. This indicator includes only closed work orders and a data range of the last 30 days by default. This can be changed in the query described in the Positions area.

Data items used	Description	View/Table field
Planned Time	Total of the planned time for work in minutes.	View: `BEASV_WORKORDER_ROUTING.PlannedTime`
Actual Time	Total of the reported time in minutes.	View: `BEASV_WORKORDER_ROUTING.WORKTIME`

Note: The percentage is calculated setting the value type to percent of target in the gauge. The default conditions for the data range are set in the query.

Scrap overall in the last 30 days

© 2026 Boyum IT Solutions A/S



This gauge shows the percentage of the scrap quantity, produced during the operations, compared to the total produced quantity (scrap quantity + yield quantity). This indicator includes only closed work orders and a data range of the last 30 days by default. This can be changed in the query described in Positions area.

Data items used	Description	View/Table field
Total Quantity Produced	Sum of the yield and scrap quantities.	Calculated field in dashboard editor: `[YieldQuantity] + [ScrapQuantity]`
Yield Quantity	Sum of the received goods quantity (in BOM unit).	View: `BEASV_WORKORDER_ROUTING.QUANTITYGOOD`
Scrap Quantity	Sum of the scrap quantity (in BOM unit).	View: `BEASV_WORKORDER_ROUTING.QUANTITYSCRAP`

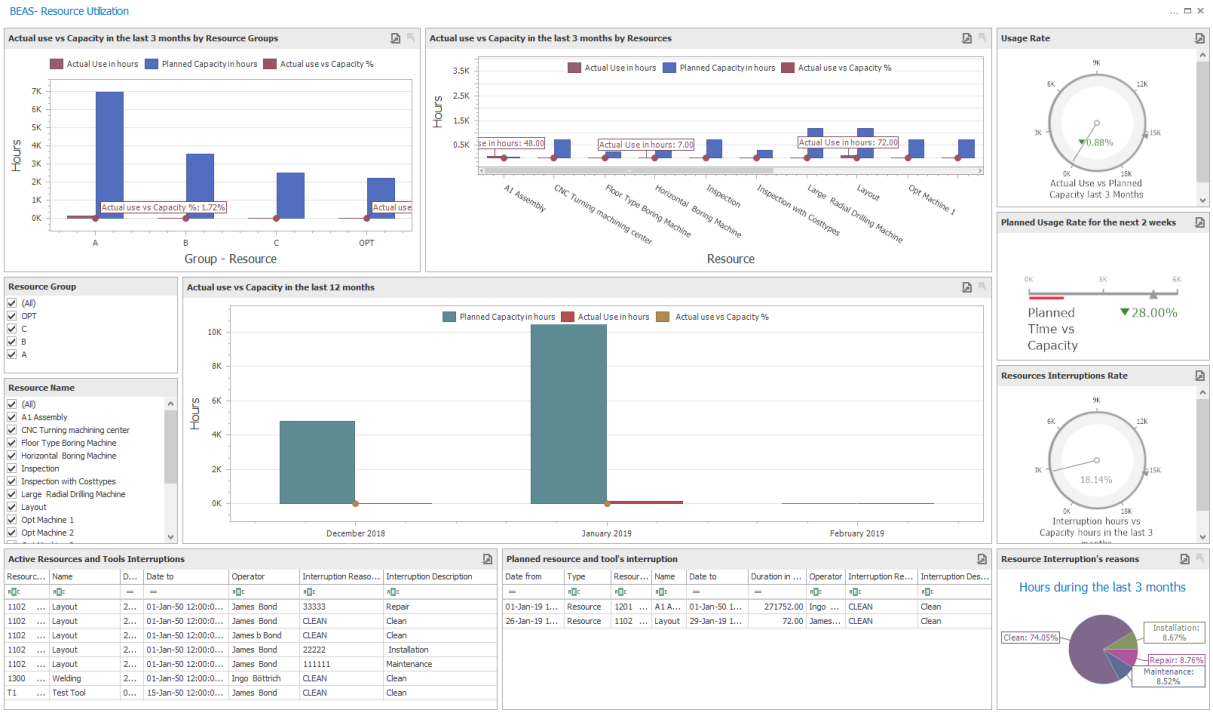
Note: The percentage is calculated setting the value type to percent of target in the gauge. The default conditions for the data range are set in the query.

18.5.2 Resource dashboard

The resource planning dashboard has several areas for different sets of information and controls:

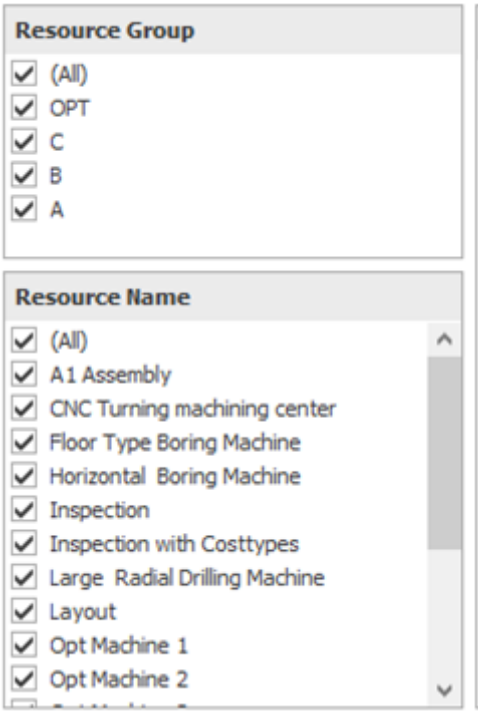
- Resource filters
- Actual use vs capacity bars
- Resource gauges
- Resource tables and charts

© 2026 Boyum IT Solutions A/S



18.5.2.1 Resource filters

Filters by resource group or name

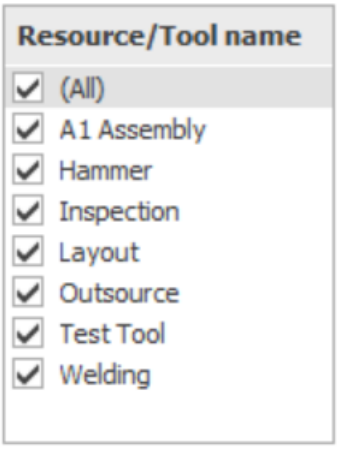


Two filters are included in the resource utilization dashboard that allows the user to filter and search for a specific resource or resource group.

© 2026 Boyum IT Solutions A/S

These filters are **applied to all the graphs and gauges in the dashboard**. When one or more specific resource or resource group is selected all the graphs and gauges display the values and calculations for the specified resource or resource group only.

Filters by resource or tool

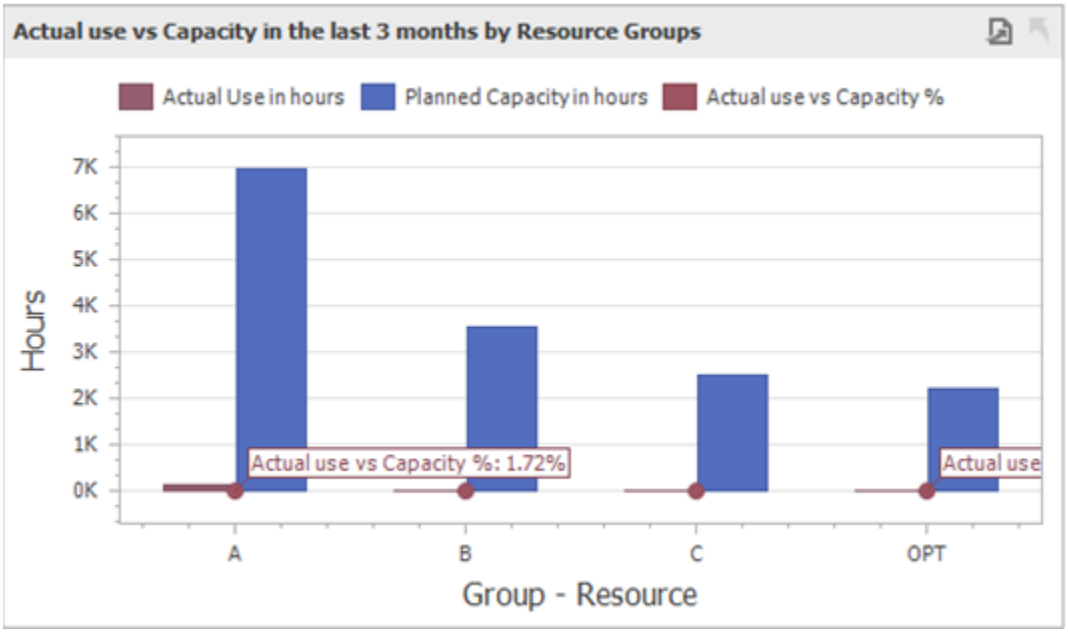


This filter allows the user to filter and search for a specific resource or tool.

This filters is **applied to the grids and the pie chart containing interruption data gauges only** in the dashboard, because this information includes the tools. When one or more specific resource or tool is selected, the pie chart and interruption tables, display the values and calculations for the specified resource or tool only.

18.5.2.2 Actual use vs capacity bars

Actual use vs Capacity in the last 3 months by resource groups



© 2026 Boyum IT Solutions A/S

This graph displays the total hours of resource utilization, the hours of the total planned capacity, and the percentage of the actual resource utilization out of the total planned capacity. The values are presented by resource groups.

This indicator includes by default the last 3 months as the data range, active resources only with capacity planning and it excludes the resources set for service or cost.

Drill down: It is possible to see the resources that belong to each group by clicking on the values for the specific group.

Data Items used	Description	View/Table field
Planned Capacity	Total hours of the planned capacity in the last 3 months.	View: `"BEASV_RESOURCE_UTILIZATION"."PlannedCapacity"`
Actual Use	Total hours of the actual use in the last 3 months.	View: `"BEASV_RESOURCE_UTILIZATION"."ActualUtilization"`
Resource group	Resource group name.	View: `"BEASV_RESOURCE_UTILIZATION"."ResourceGroup"`
Resource name	Resource name that is displayed after drilling down.	View: `"BEASV_RESOURCE_UTILIZATION"."NAME"`

Actual use vs Capacity in the last 3 months by Resources

This graph shows the total hours of resource utilization, the hours of the total planned capacity, and the percentage of the actual resource utilization out of the total planned capacity. The values are presented by individual resources.

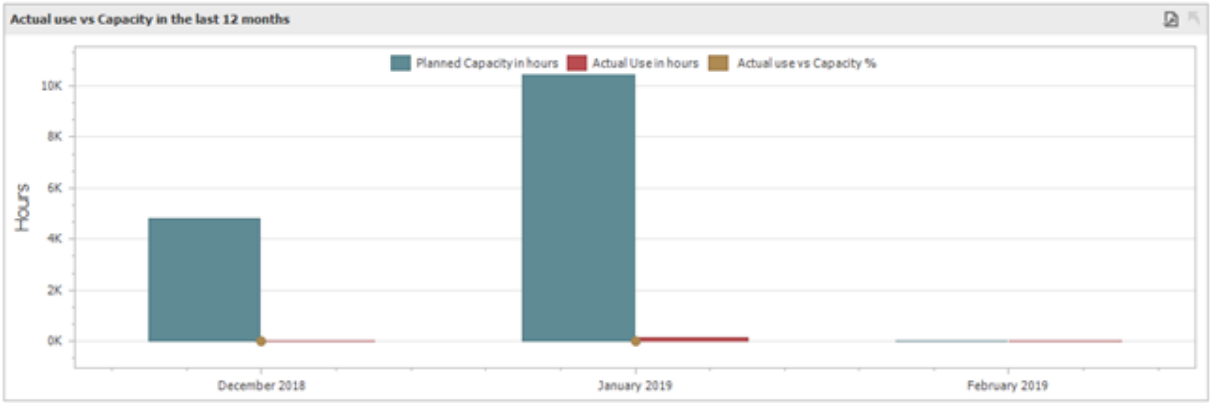
This indicator includes by default the last 3 months as the data range, active resources only with capacity planning and it excludes the resources set for service or cost.

© 2026 Boyum IT Solutions A/S

Data Items used	Description	View/Table field
Planned Capacity	Total hours of the planned capacity in the last 3 months.	View: "BEASV_RESOURCE_UTILIZATION"."PlannedCapacity"
Actual Use	Total hours of the actual use in the last 3 months.	View: "BEASV_RESOURCE_UTILIZATION"."ActualUtilization"
Resource name	Resource name.	View: "BEASV_RESOURCE_UTILIZATION"."NAME"

Actual use vs Capacity in the last 12 months (by months)

The following example uses a database which contains data for the past three months only. A complete database would show a graph with the last 12 months and their values.



This graph shows the total hours of the resource utilization, the hours of the total planned capacity, and the percentage of the actual resource utilization out of the total planned capacity. The values are presented by month.

This indicator includes by default the last 12 months as the data range, active resources only with capacity planning and it excludes the resources set for service or cost.

Drill down: It is possible to see the resources that belong to each month by clicking on the values for the specific month.

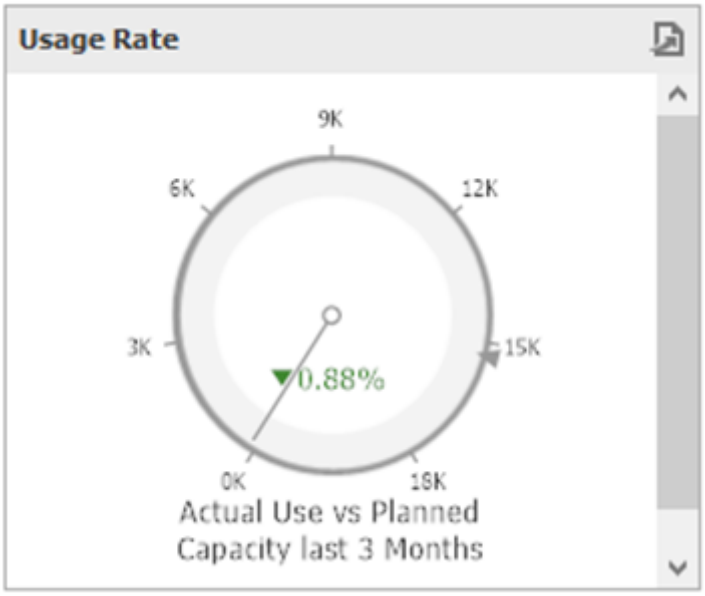
Data Items used	Description	View/Table field
Planned Capacity	Total hours of the planned capacity in the last 12 months.	View: "BEASV_RESOURCE_UTILIZATION"."PlannedCapacity"

© 2026 Boyum IT Solutions A/S

Actual Use	Total hours of the actual use in the last 12 months.	View: "BEASV_RESOURCE_UTILIZATION"."ActualUtilization"
Date	Capacity planning date used as an argument. It includes only the dates in the last 10 months.	View: "BEASV_RESOURCE_UTILIZATION"."Date"
Resource name	Resource name used as an argument. It is shown after drilling down.	View: "BEASV_RESOURCE_UTILIZATION"."NAME"

18.5.2.3 Resource gauges

Usage rate



This gauge shows the percentage of the actual resource utilization from the planned capacity for all resources.

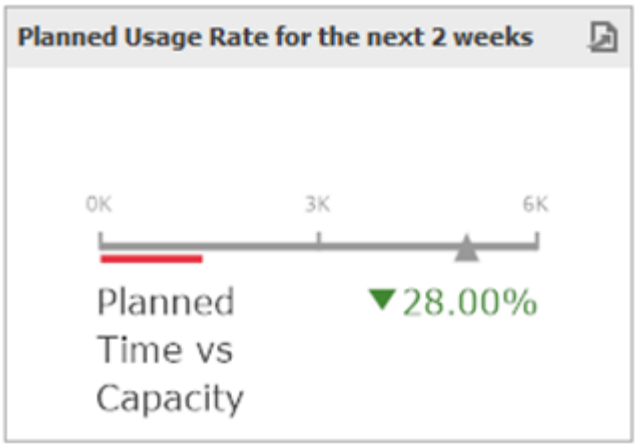
This indicator includes by default the last 3 months as the data range, active resources only with capacity planning and it excludes the resources set for service or cost.

Data Items used	Description	View/Table field
Planned Capacity	Sum of the hours for the planned capacity in the	View: "BEASV_RESOURCE_UTILIZATION"."PlannedCapacity"

© 2026 Boyum IT Solutions A/S

	last 3 months.	
Actual Use	Sum of the hours for the actual use in the last 3 months.	View: "BEASV_RESOURCE_UTILIZATION"."ActualUtilization"

Planned usage rate for the next two weeks



This linear gauge shows the percentage of the planned work time for the resources from their planned capacity.

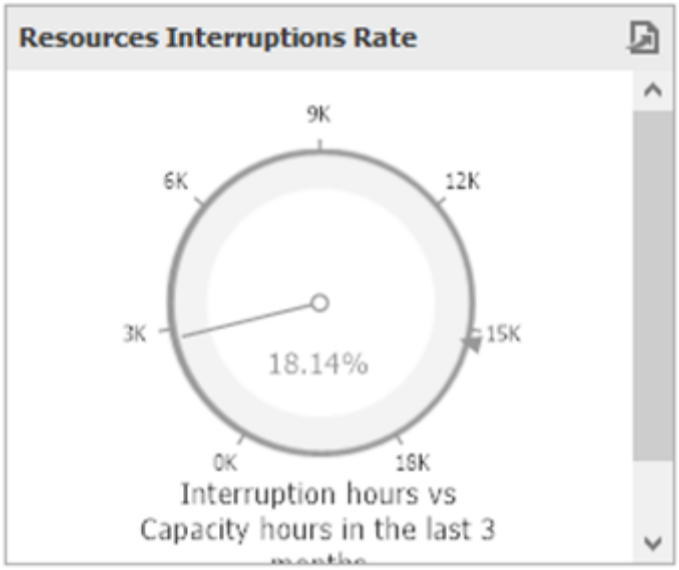
This indicator includes by default the next 2 weeks as the data range, active resources only with capacity planning and it excludes the resources set for service or cost.

Data Items used	Description	View/Table field
Reserved Time	Total reserved working time for the resources in the next 2 weeks.	View: BEASV_RESERVED_TIME.ReservedTime Date range: `COALESCE((SELECT SUM(BEASV_RESERVED_TIME."ReservedTime") FROM "BEASV_RESERVED_TIME" WHERE BEASV_RESOURCE_UTILIZ AND (BEASV_RESERVED_TIME."ToDateTime" <= ADD_DAYS(NOW`

Planned capacity in the next two weeks	Total hours of the planned capacity of the resources.	`COALESCE(SUM("PlannedCapacity"), 0) AS "PlannedCapacity"`
		Next two weeks date range:
		`WHERE (BEASV_RESOURCE_UTILIZATION."Date" <= ADD_DAYS(NOW AND BEASV_RESOURCE_UTILIZATION."Date" > NOW())`
		It is possible to calculated a filed in the dashboard, instead of having the date range in the query:
		`Sum(Iif(DateDiffDay([Date], Today()) <= 15 And [Date] > T`

Resources Interruptions Rate

© 2026 Boyum IT Solutions A/S



This gauge shows the percentage of interruption hours from the total capacity hours of all the resources.

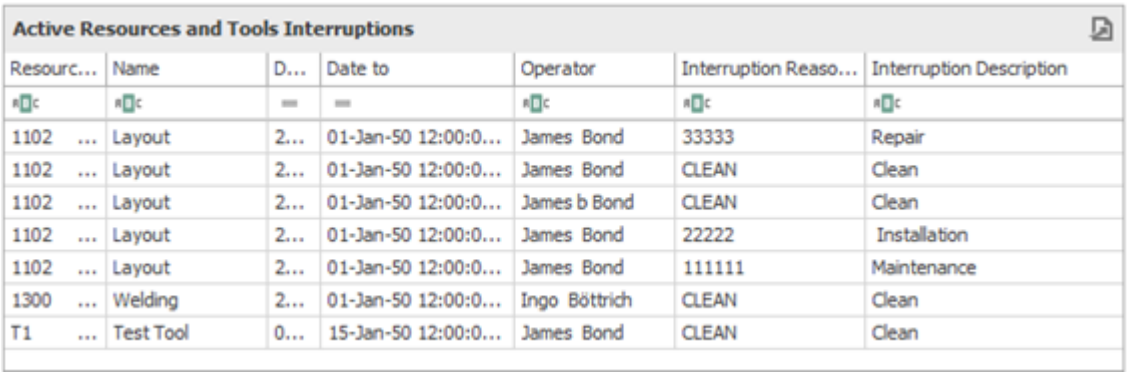
This indicator includes by default the last 3 months as the data range, active resources only with capacity planning and it excludes the resources set for service or cost. Only interruptions with completed or active status are taken into consideration for this gauge.

Data Items used	Description	View/Table field
Interruption duration	Total interruption duration in hours. Only those hours are taken into account that interfered with the resource working schedule during the last 3 months.	View: `BEASV_RESOURCE_UTILIZATION."InterruptionDuration"`
Planned capacity	Planned capacity hours of the calculated resources in the last 3 months.	View: `BEASV_RESOURCE_UTILIZATION."PlannedCapacity"`

© 2026 Boyum IT Solutions A/S

18.5.2.4 Resource tables and charts

Active Resources and Tools Interruptions



Active Resources and Tools Interruptions

Resourc...	Name	D...	Date to	Operator	Interruption Reaso...	Interruption Description
1102 ...	Layout	2...	01-Jan-50 12:00:0...	James Bond	33333	Repair
1102 ...	Layout	2...	01-Jan-50 12:00:0...	James Bond	CLEAN	Clean
1102 ...	Layout	2...	01-Jan-50 12:00:0...	James b Bond	CLEAN	Clean
1102 ...	Layout	2...	01-Jan-50 12:00:0...	James Bond	22222	Installation
1102 ...	Layout	2...	01-Jan-50 12:00:0...	James Bond	111111	Maintenance
1300 ...	Welding	2...	01-Jan-50 12:00:0...	Ingo Böttrich	CLEAN	Clean
T1 ...	Test Tool	0...	15-Jan-50 12:00:0...	James Bond	CLEAN	Clean

This grid shows relevant information about the current interruptions of tools and resources.

There is no default data range limit. It is up to the user to select a data range suitable for their needs. This indicator includes active resources and tools only, resources with capacity planning and active interruptions only. It excludes the resources set for service or cost.

To change data ranges, see the suggestions in Positions area, the following are examples applied to this grid in MSSQL:

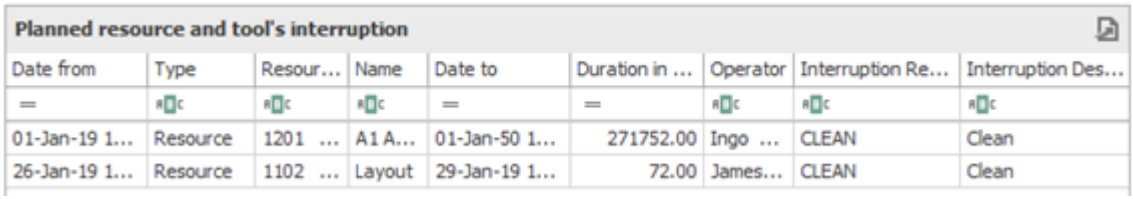
```
--Interruption's data which started during the date range between three months ago and today:
 ( BEASV_INTERRUPTIONS."DateFrom" >= DATEADD(MONTH, -3, GETDATE()) AND BEASV_INTERRUPTIONS.DateFrom < GETDA


--Interruption's data which ended during the data range between the last 3 months until today:
AND (BEASV_INTERRUPTIONS."DateTo" >= DATEADD(MONTH, -3, GETDATE()) AND BEASV_INTERRUPTIONS."DateTo" < GETDA

--Selecting only a top "n" of the interruptions, it is recommended to order by date when applying the top f
SELECT TOP(10) … (rest of the query)
```

Column	Description	View Info
Type	Type of interruption: resource or tool.	View: `BEASV_INTERRUPTIONS.Type`
Id	Resource or tool ID.	View: `BEASV_INTERRUPTIONS.ResourceOrToolId`
Name	Resource or tool name.	View: `BEASV_INTERRUPTIONS.Name`
Date from	Date from. Use this parameter or '*Date to*' to change the date range.	View: `BEASV_INTERRUPTIONS.DateFrom`
Date to	Date to. Use this parameter or '*Date from*' to change the date range.	View: `BEASV_INTERRUPTIONS.DateTo`
Operator	The operator logged in.	View: `BEASV_INTERRUPTIONS.Operator`

© 2026 Boyum IT Solutions A/S

Interruption Reason Id	Interruption Reason ID.	View: `BEASV_INTERRUPTIONS.InterruptionReasonId`
Interruption Description	Interruption description.	View: `BEASV_INTERRUPTIONS.InterruptionDescription`
Interruption Status	Interruption Status: Active, Planned, Complete.	View: `BEASV_INTERRUPTIONS.InterruptionStatus`

Planned resource and tool's interruption



Planned resource and tool's interruption

Date from	Type	Resour...	Name	Date to	Duration in ...	Operator	Interruption Re...	Interruption Des...
=	abc	abc	abc	=	=	abc	abc	abc
01-Jan-19 1...	Resource	1201 ...	A1 A...	01-Jan-50 1...	271752.00	Ingo ...	CLEAN	Clean
26-Jan-19 1...	Resource	1102 ...	Layout	29-Jan-19 1...	72.00	James...	CLEAN	Clean

This grid shows relevant information about the planned interruptions for tools and resources.

> There is no default data range limit. It is up to the user to select a data range suitable for their needs. This indicator includes planned interruptions only.

To change data ranges, see the suggestions in Positions area, the following are examples applied to this grid in MSSQL:

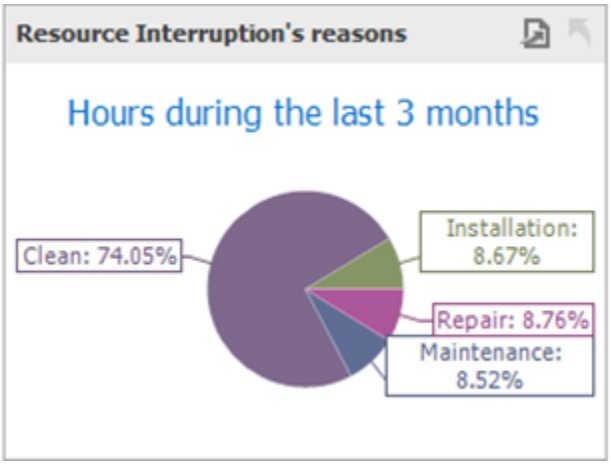
```
--Interruption's data which started during the date range between three months ago and today:
( BEASV_INTERRUPTIONS."DateFrom" >= DATEADD(MONTH, -3, GETDATE()) AND BEASV_INTERRUPTIONS.DateFrom < GETDATE())


--Interruption's data which ended during the data range between the last 3 months until today:
AND (BEASV_INTERRUPTIONS."DateTo" >= DATEADD(MONTH, -3, GETDATE()) AND BEASV_INTERRUPTIONS."DateTo" < GETDATE())


--Selecting only a top "n" of the interruptions, it is recommended to order by date when applying the top function. Example of top 10:
SELECT TOP(10) … (rest of the query)
```

Column	Description	View Info
Type	Type of interruption: resource or tool.	View: `BEASV_INTERRUPTIONS.Type`
Id	Resource or tool ID.	View: `BEASV_INTERRUPTIONS.ResourceOrToolId`
Name	Resource or tool name.	View: `BEASV_INTERRUPTIONS.Name`

© 2026 Boyum IT Solutions A/S

Date from	Date from. Use this parameter or '*Date to*' to change the date range.	View: `BEASV_INTERRUPTIONS.DateFrom`
Date to	Date to. Use this parameter or '*Date from*' to change the date range.	View: `BEASV_INTERRUPTIONS.DateTo`
Duration	Interruption duration in hours.	View: `BEASV_INTERRUPTIONS.InterruptionDuration`
Operator	The operator logged in.	View: `BEASV_INTERRUPTIONS.Operator`
Interruption Reason Id	Interruption reason ID.	View: `BEASV_INTERRUPTIONS.InterruptionReasonId`
Interruption Description	Interruption description.	View: `BEASV_INTERRUPTIONS.InterruptionDescription`
Interruption Status	Interruption Status: Active, Planned, Complete.	View: `BEASV_INTERRUPTIONS.Status`

Resource Interruption's reasons



This pie chart shows the percentage of hours of different interruption reasons compared to the total sum of interruption hours for resources.

This indicator includes the last three months as the data range, active resources only with capacity planning and it excludes the resources set for service or cost. Only the interruptions that have the status completed or active are taken into consideration for this gauge.

Data item	Description	View Info

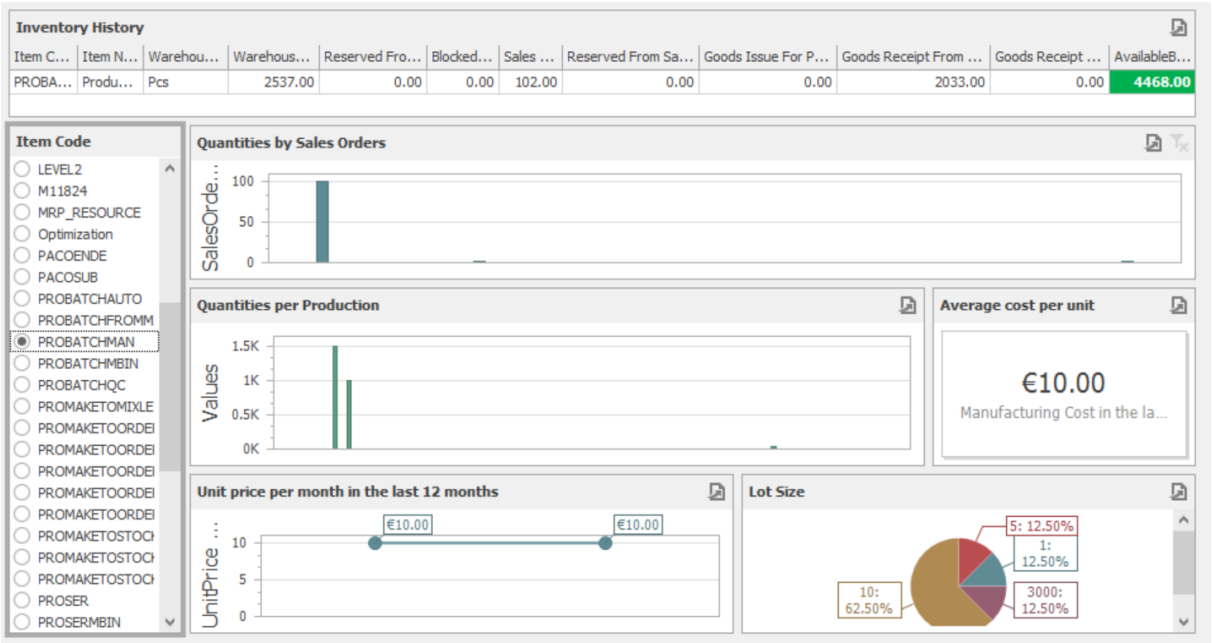
© 2026 Boyum IT Solutions A/S

Duration until today	Interruption duration up until the current day. If the interruption has an end date in the future, then the duration is calculated only until the current day, otherwise it is calculated as the start date time minus the end date time.	View: `BEASV_INTERRUPTIONS.InterruptionUntilToday`
Interruption Description	Interruption description.	View: `BEASV_INTERRUPTIONS.InterruptionDescription`

18.5.3 Item dashboard

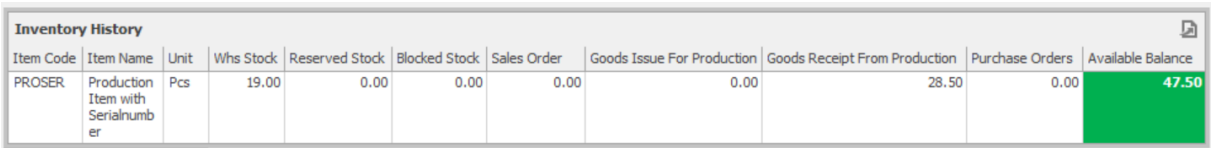
The item dashboard has several areas for different sets of information and controls:

- Inventory history table
- Item filter
- Item bars and charts

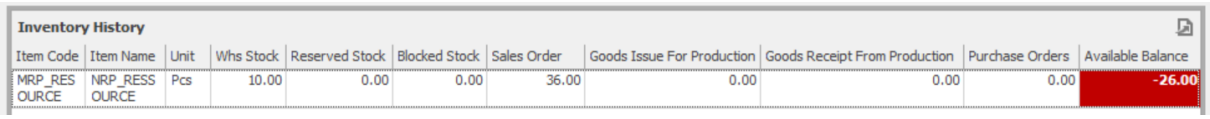


18.5.3.1 Inventory history table

Inventory history



© 2026 Boyum IT Solutions A/S



Inventory History

Item Code	Item Name	Unit	Whs Stock	Reserved Stock	Blocked Stock	Sales Order	Goods Issue For Production	Goods Receipt From Production	Purchase Orders	Available Balance
MRP_RESOURCE	NRP_RESSOURCE	Pcs	10.00	0.00	0.00	36.00	0.00	0.00	0.00	-26.00

This table that shows the inventory history data of the selected item.

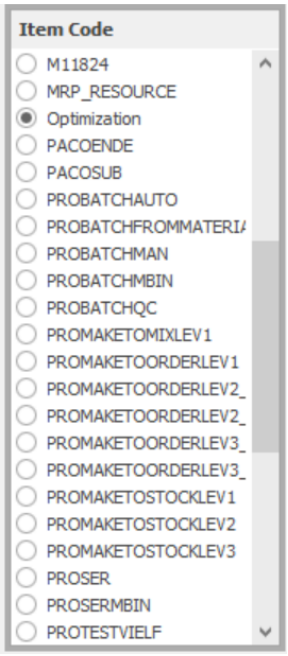
Only items with procurement mode set to *Make* are displayed in this dashboard.

Column	Description	Table Field
Item Code	Item code.	View: `"BEASV_INVENTORY_HISTORY"."ItemCode"`
Item Name	Item name.	View: `"BEASV_INVENTORY_HISTORY"."ItemName"`
Unit	Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."WarehouseUnit"`
Whs Stock	Sum of stock amounts in Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."WarehouseStock"`
Reserved Stock	Sum of the amounts reserved from the warehouse stock in Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."ReservedFromStock"`
Blocked Stock	Sum of the blocked stock amounts in Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."BlockedStock"`
Sales Order	Sum of sales order amounts in Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."SalesOrder"`
Goods Issue for Production	Sum of the goods issue amounts for production in Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."GoodsIssueForProduction"`
Goods Receipt From Production	Sum of the goods receipt from production in Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."GoodsReceiptFromProduction"`
Purchase Orders	Sum of the goods receipt from purchase orders in Inventory UoM.	View: `"BEASV_INVENTORY_HISTORY"."GoodsReceiptFromPO"`
Available Balance	Available balance for the item: **Green:** Positive or 0 balance. **Red:** Negative balance.	View: `"BEASV_INVENTORY_HISTORY"."AvailableBalance"`

© 2026 Boyum IT Solutions A/S

18.5.3.2 Item filter

Item Code



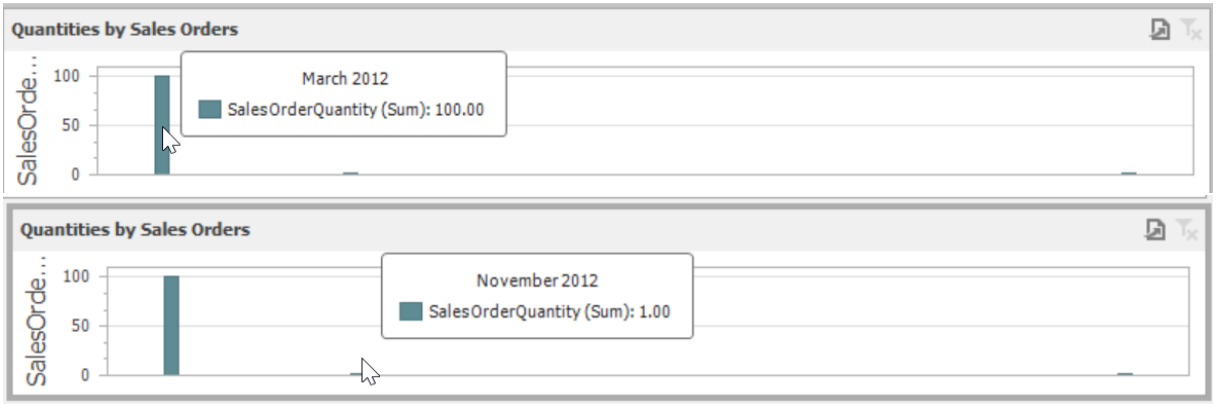
This filtering list box filters the results by item code. It allows the user to select one item code. When the item code is selected, all the visualization in the item dashboard changes to display the information corresponding to the selected item.

Only items with procurement mode set to *Make* are displayed in this dashboard.

Column	Description	Table Field
Item Code	Item code.	View: `"BEASV_INVENTORY_HISTORY"."ItemCode"`

18.5.3.3 Item bars and charts

Quantities by sales order



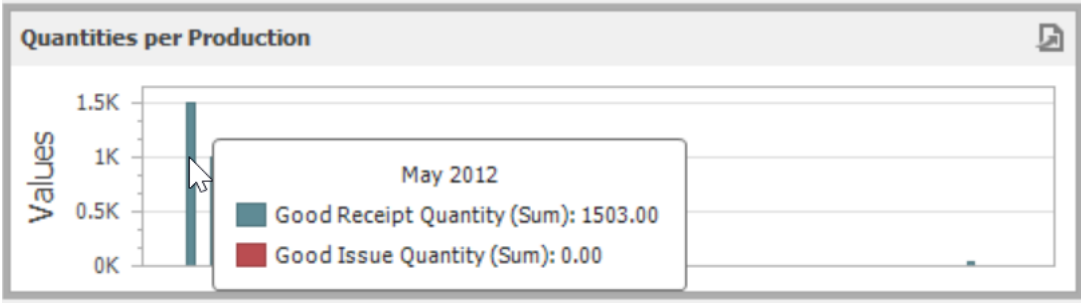
This bar graph shows the total item quantity for sales orders.

© 2026 Boyum IT Solutions A/S

This indicator includes by default the last 12 months as the date range, only items with procurement mode set to *Make* and only sales orders that have not been canceled.

Column	Description	Table Field
Sales Order Quantity	Total sales order quantity for the selected item in warehouse units.	View: `"BEASV_ITEM_SALES_ORDER"."Quantity"`
Shipment date	The month and year of the shipment date (only the last 12 months are selected by default).	View: `"BEASV_ITEM_SALES_ORDER"."ShipDate"`

Quantities by production



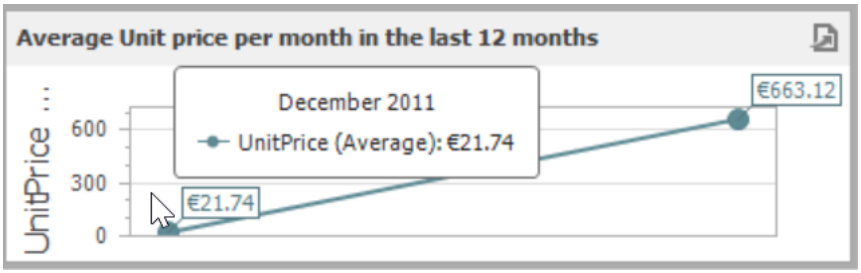
This bar graph shows the total item quantity for goods issue in production and the total item quantity for goods receipts from production.

This indicator includes by default the last 12 months as the date range, only items with procurement mode set to *Make* and only the entries for goods issue and goods receipts for production that have not been canceled.

Column	Description	Table Field
Good Issue Quantity	Total goods issue quantity for production for the selected item in warehouse units.	View: `"BEASV_ITEM_PRODUCTION"."GoodIssueQuantity"`
Good Receipt Quantity	Total the goods receipt quantity from production for the selected item in warehouse units.	View: `"BEASV_ITEM_PRODUCTION"."GoodReceiptQuantity"`
Document date	The month and year of the document date (only the last 12 months are selected by default).	View: `"BEASV_ITEM_PRODUCTION"."DocDate"`

Average Unit Price

© 2026 Boyum IT Solutions A/S

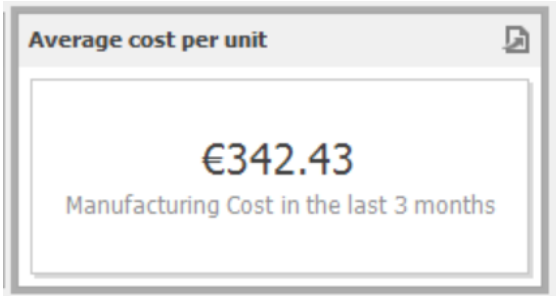


This line graph shows the average item price in goods receipts from production. The average is calculated per month.

This indicator includes by default the last 12 months as the date range, only items with procurement mode set to *Make* and only the entries for goods receipts from production that have not been canceled.

Column	Description	Table Field
Unit Price (Average)	The price for the item in the goods receipt document. The average price per month is calculated in the graph.	View: `"BEASV_ITEM_PRODUCTION"."UnitPrice"`
Document date	The month and year of the document date (only the last 12 months are selected by default).	View: `"BEASV_ITEM_PRODUCTION"."DocDate"`

Average cost per unit



This line graph shows the average item price in goods receipts from production. The average is calculated using the item manufacturing price for the last 3 months.

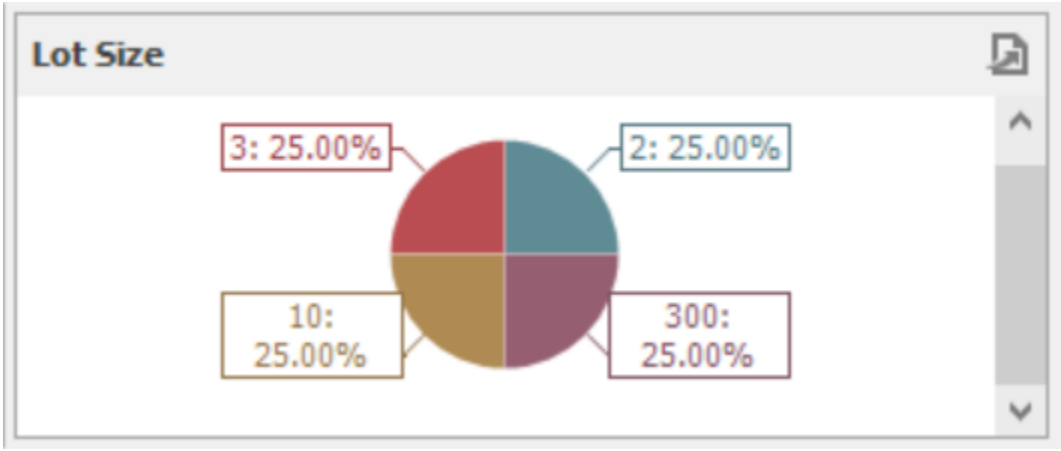
This indicator includes by default the last 3 months as the data range, only items with procurement mode set to *Make* and only the entries for goods receipts from production that have not been canceled.

Column	Description	Table Field

© 2026 Boyum IT Solutions A/S

Unit Price in the last 3 months (Average)	The price for the item in the goods receipt document. The average price per month is calculated in the graph.	Calculated field in dashboard editor: `Iif(DateDiffMonth([DocDate], Today()) <= 3 And [DocDate] <= Today(), [UnitPrice], 0)`
Unit Price	The price for the item in the goods receipt document.	View: `"BEASV_ITEM_PRODUCTION"."UnitPrice"`
Document date	The month and year of the document date.	View: `"BEASV_ITEM_PRODUCTION"."DocDate"`

Lot Size



This pie chart that shows the percentage of the lot sizes for the good receipts of the item selected. The percentage represents the amount of work orders that have their lot sizes.

This indicator includes by default the last 10 work orders, and only items with procurement mode set to *Make*.

Query for choosing the lot sizes from the last 10 work orders (MSSQL/HANA):

Only modify the 10 after the highlighter RowNumber to choose the last n number of work orders.

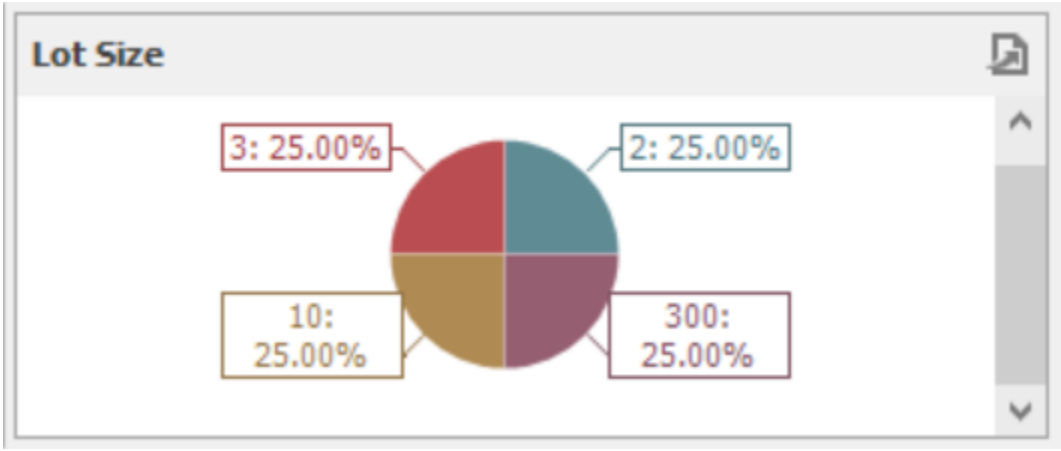
```
SELECT "Total Quantity",
  "ItemCode"
    FROM
(SELECT "QuantityWhsUnit" AS "Total Quantity",
"StartDate",
"ItemCode",
ROW_NUMBER()
          over (Partition BY  "ItemCode"
                ORDER BY "StartDate" DESC ) AS "RowNumber"
FROM "BEASV_WORKORDER_POS"
WHERE "AutomaticallyScheduled" =1)AS "InnerQuery" WHERE "RowNumber" <=10
```

Column	Description	Table Field
Item Code	Item code.	VIEW: `BEAS_WORKORDER_POS.ItemCode`

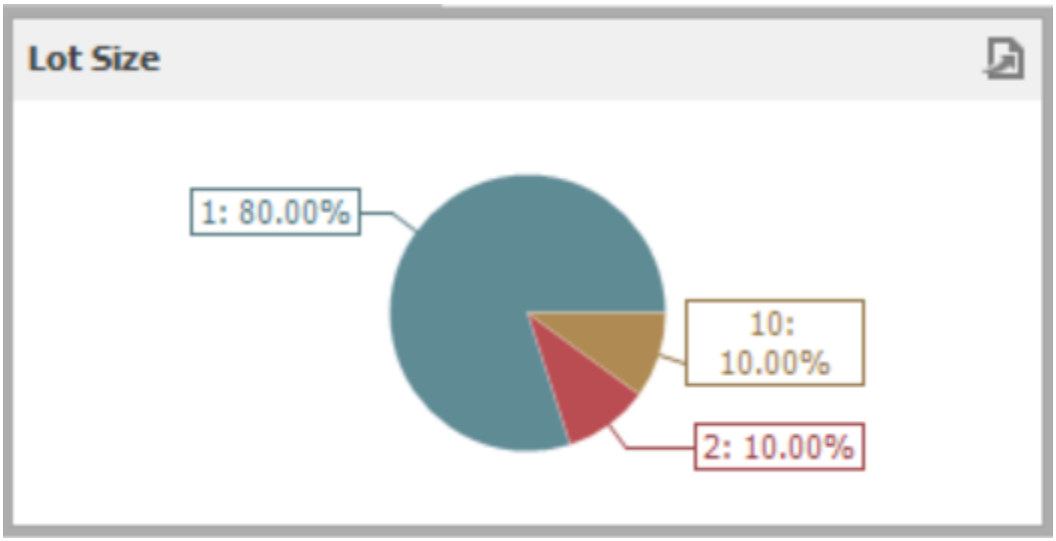
© 2026 Boyum IT Solutions A/S

Lot Size	The total quantity (lot size) in the work order position for the selected item in warehouse units.	VIEW: `BEAS_WORKORDER_POS.QuantityWhsUnit`

Example of an item that has four good receipts. One of them has lot size=2, the next one has lot size=300, another one has lot size=10 and the last one has lot size=3. Therefore each of the lot sizes are represented in 25% of the chart.



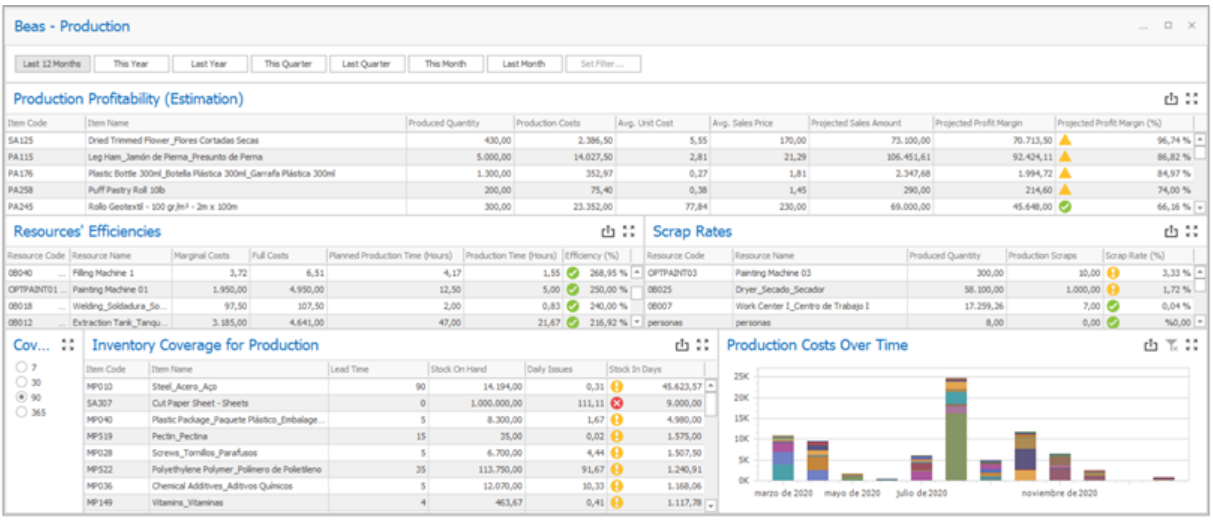
Example of an item that has lot sizes set to 1 more often (80%) than the rest of its lot sizes, which are 10 and 2.



18.5.4 Production Analysis

The Production dashboard contains a series of analytical views over the executed production. The data can be filtered using the pre-made filters for defined time ranges (last 12 months, this year, last year, this quarter, last quarter, this month and last month). Manual filtering can be done by clicking on “Set Filter…”.

© 2026 Boyum IT Solutions A/S



The Production Analysis dashboard includes the following four tabs:

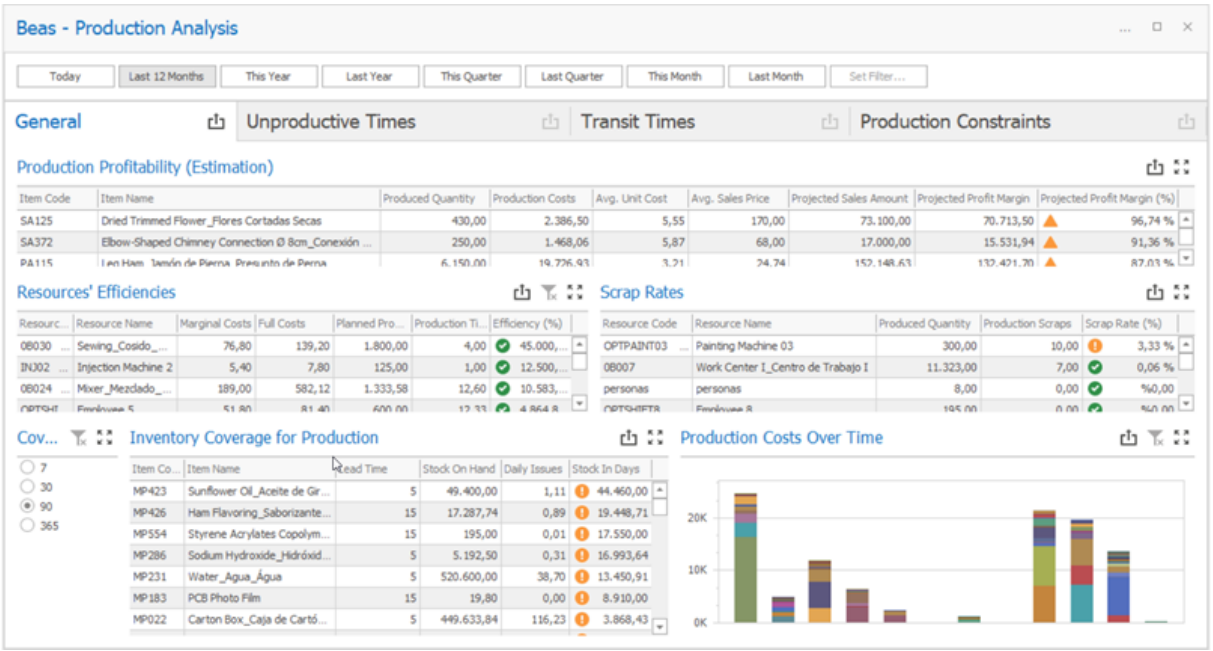
[General Tab]

[Unproductive Times Tab]

[Transit Times Tab]

[Production Constraints Tab]

18.5.4.1 General tab



© 2026 Boyum IT Solutions A/S

The General tab includes analyses regarding production profitability, efficiency and costs of the production resources, scrap rates per resource, inventory coverage for production, and a chart that shows how the production costs are evolving over time.

Dashboard sections:

Production Profitability (Estimation)

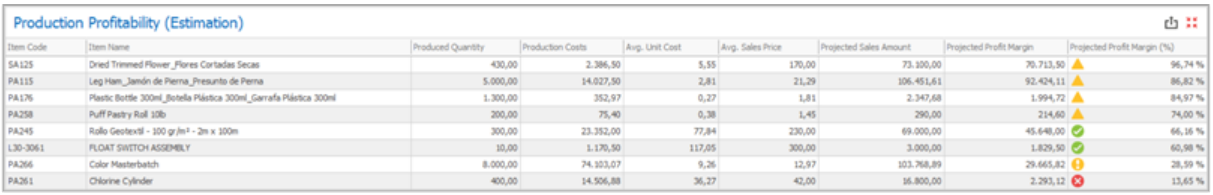
Resources' Efficiencies

Scrap Rates

Inventory Coverage for Production

Production Costs Over Time

18.5.4.1.1 Production Profitability (Estimation)



With this report, you can have a deeper understanding on which items are more or less profitable to produce. The report lists all items produced over the selected time range, detailing the production amounts and costs, and getting the average sales price for each product. Then, the following calculations are performed:

a) **Projected Sales Amount**: Produced quantity multiplied by average sales price. This column represents the estimated revenue for selling the entire production;
b) **Projected Profit Margin**: Projected sales amount discounted of production costs. This column represents the estimated gross profit for selling the entire production;
c) **Projected Profit Margin** (%): Projected profit margin divided by projected sales amount. This column represents the percent of estimated profit margin for selling the entire production.

By default, four icons can be presented by this report. The icons can be customized by editing the dashboard and defining new color rules.

Profit margin greater than 70%. Can indicate costing errors or undesirably high profits.

Profit margin between 35% and 70%

Profit margin between 20% and 35%

Profit margin lower than 20%

© 2026 Boyum IT Solutions A/S

18.5.4.1.2 Resources' Efficiencies

With this report, you can see the costs (marginal and full) registered for each resource in the selected time range, and compare the planned production times to actual production times. The report calculates the actual efficiency by dividing the planned production times for the actual production times. So, if an operation is planned to last 1 hour and is executed in 2 hours, the actual efficiency is of 50% (1h/2h).

By default, three icons can be presented by this report. The icons can be customized by editing the dashboard and defining new color rules.

Efficiency greater than 70%

Efficiency between 50% and 70%

Efficiency lower than 50%

18.5.4.1.3 Scrap Rates

With this report, you can see the comparison between the good and the scrapped produced items. The scraps are calculated according to the “scrap” units identified in the Time Receipts (by default, there is no linking to the QC inspections, although this functionality could be added by customizing the dashboard’s query). The scrap rate is calculated by dividing the scrapped units by the good units.

By default, three icons can be presented by this report. The icons can be customized by editing the dashboard and defining new color rules.

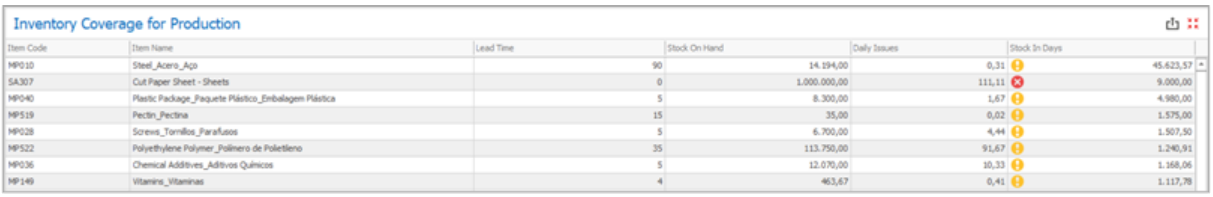
© 2026 Boyum IT Solutions A/S

Scrap rate lower than 1%

Scrap rate between 1% and 10%

Scrap rate greater than 10%

18.5.4.1.4 Inventory Coverage for Production



This report can compare the stock on hand with the calculated average daily material issues for production, resulting in the calculated days of stock for each component. Then, by comparing the days of stock to the components' lead times, an icon indicated possible overstock, enough stock, or insufficient stock. The "Inventory Coverage for Production" report is not linked to the time ranges filter on the top of the report; instead, it is linked to the "Coverage Range (Days)" selector at the left side of it. Using this selector, you can choose to calculate the estimated days of stock based on the transactions from the last 7, 30, 90 or 365 days.

By default, three icons can be presented by this report. The icons can be customized by editing the dashboard and defining new color rules.

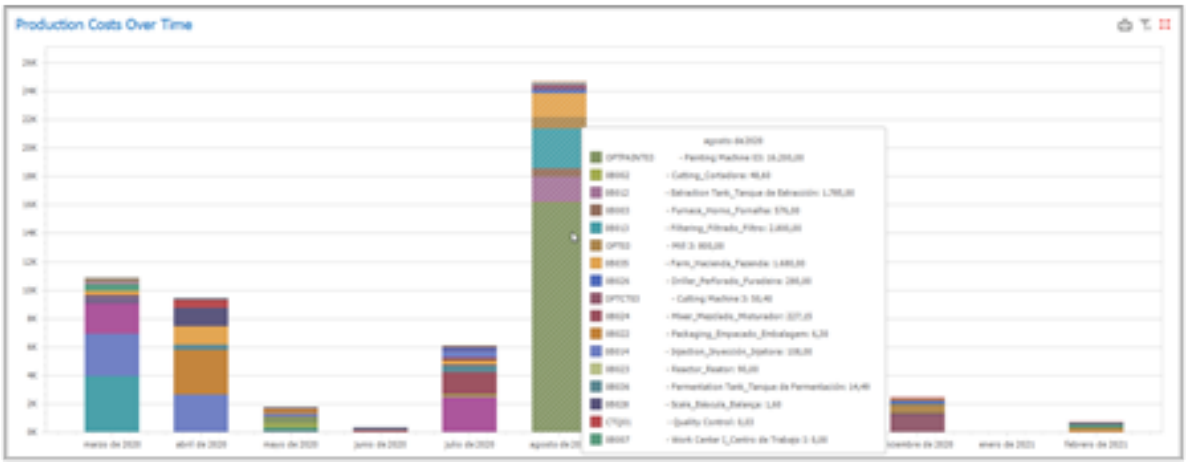
Stock in days between the item's lead time and the double of the item's lead time

Stock in days greater than the double of the item's lead time

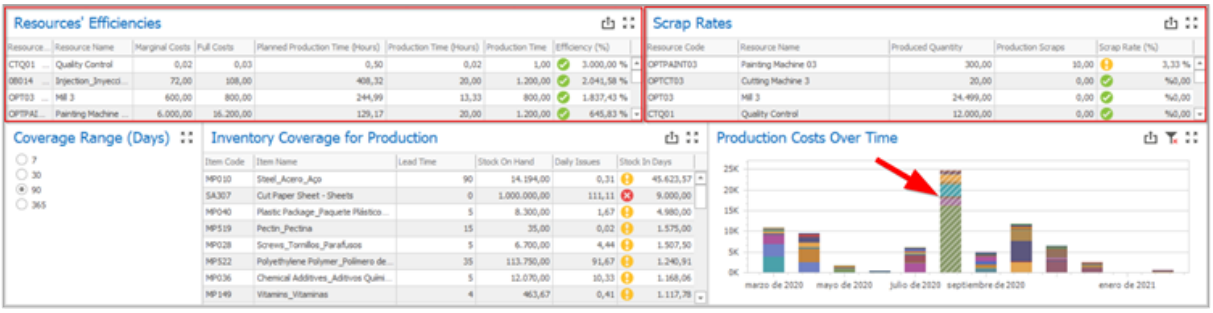
Stock in days lower than the item's lead time

© 2026 Boyum IT Solutions A/S

18.5.4.1.5 Production Costs Over Time



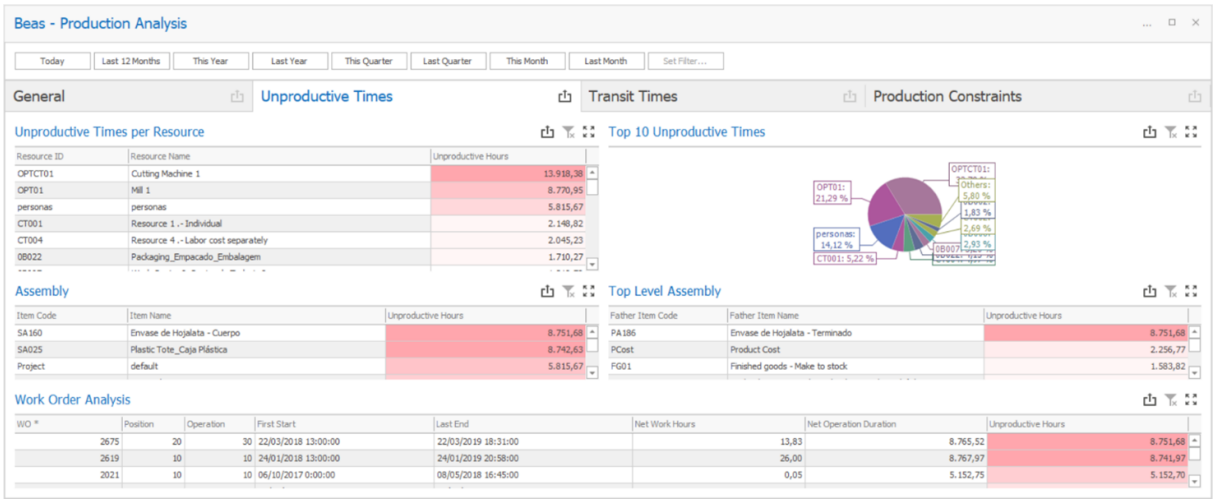
This chart displays the sum of full costs (from production time receipts) for each month in the selected time range, detailing how each resource participated in the costs' composition. The "Production Costs Over Time" chart can also be used to filter the data on the "Resources' Efficiencies" and "Scrap Rates" reports: when you click on any bar of the chart, the two reports are filtered to display only display for the selected month. This can come in handy if you want to see the detailed list of the resources and their costs, which will be displayed on the "Resources' Efficiencies" report.



This selection, however, will not affect the "Inventory Coverage for Production" or "Production Profitability (Estimation)" reports.

© 2026 Boyum IT Solutions A/S

18.5.4.2 Unproductive Times Tab



The Unproductive Times tab provides an analysis over the times in between different partial productions of the same operations. This dashboard can help you to identify possibilities for improving your processes to reduce time wasting and achieve a higher productivity.

Dashboard sections:

Unproductive Times per Resource

Top 10 Unproductive Times

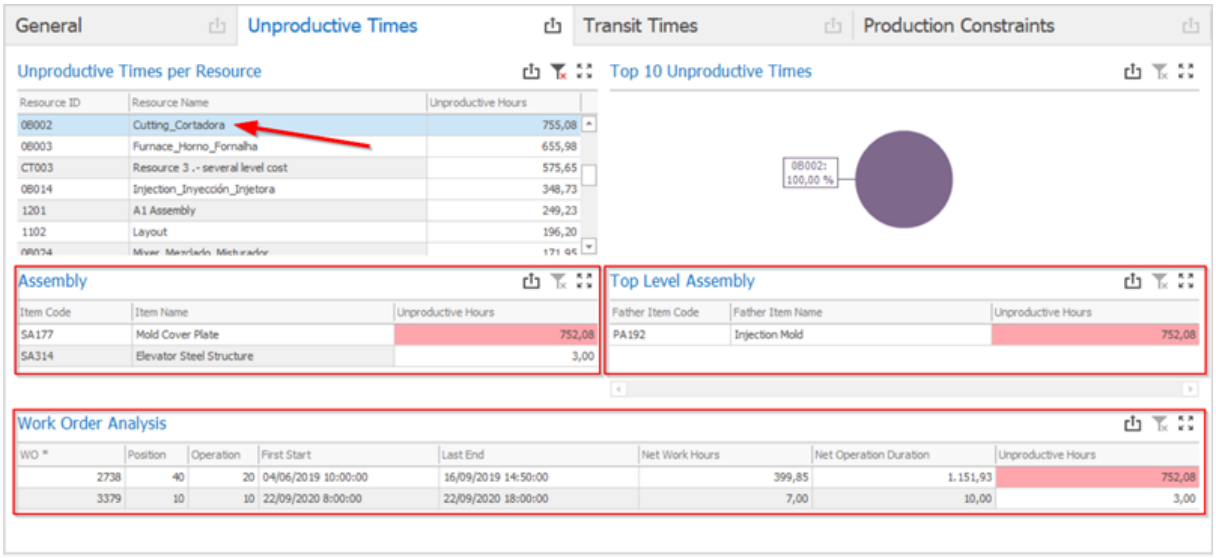
Assembly / Top Level Assembly

Work Order Analysis

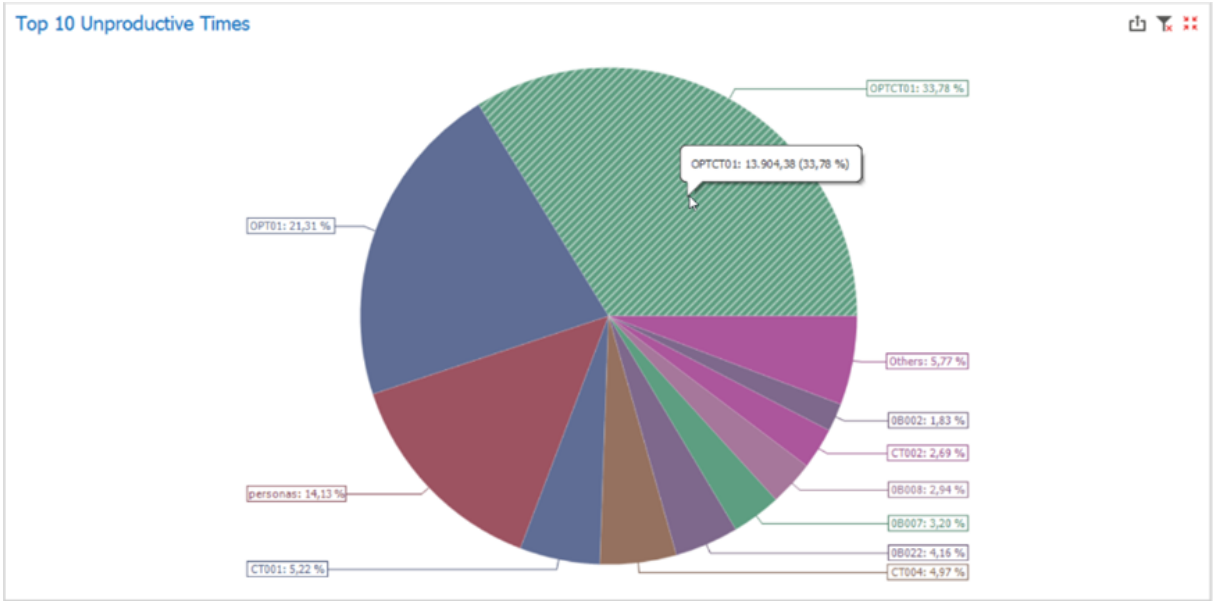
18.5.4.2.1 Unproductive Times per Resource

This report presents the sum of all unproductive times related to each resource used in the production process. To know which assemblies and work orders composed the unproductive times of a resource, you just need to click on the resource and see the results in the Assembly"/"Top Level Assembly and "Work Order Analysis grids.

© 2026 Boyum IT Solutions A/S



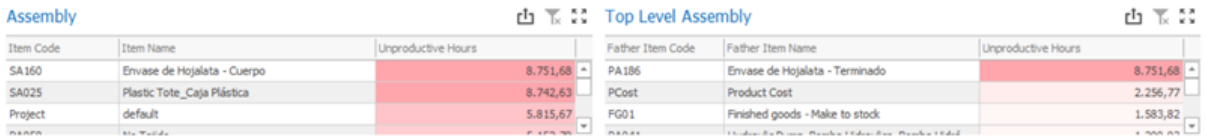
18.5.4.2.2 Top 10 Unproductive Times



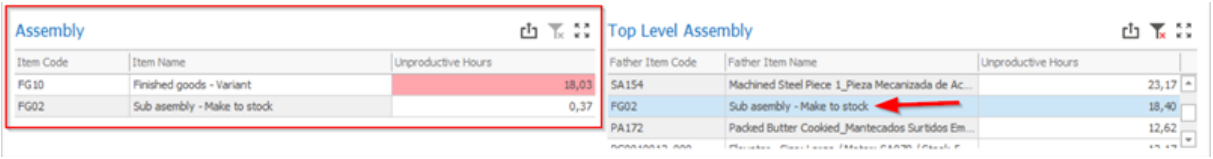
This chart displays the top 10 resources responsible for generating unproductive times. When clicking on a resource, the data on Assembly/Top Level Assembly and Work Order Analysis grids will be updated in the same way as when selecting a resource from the Unproductive Times per Resource grid.

© 2026 Boyum IT Solutions A/S

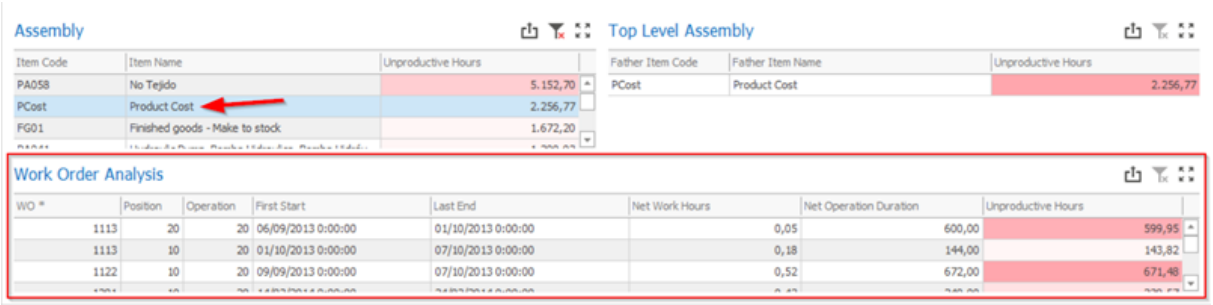
18.5.4.2.3 Assembly / Top Level Assembly



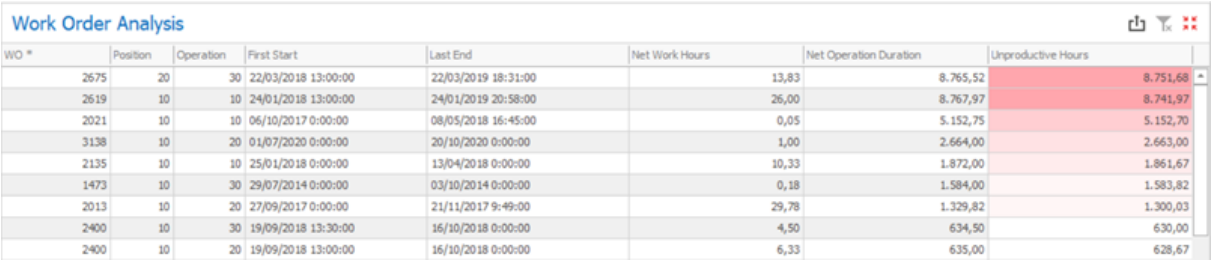
The “Assembly” and “Top Level Assembly” grids work together to display the manufactured items and corresponding father items related to unproductive times. When clicking on a parent item, it is possible to know which assemblies or sub-assemblies have generated more unproductive times.



To understand in which work orders the unproductive times were produced, you just need to click on an assembly or top-level assembly and check the results under the Work Order Analysis grid.



18.5.4.2.4 Work Order Analysis

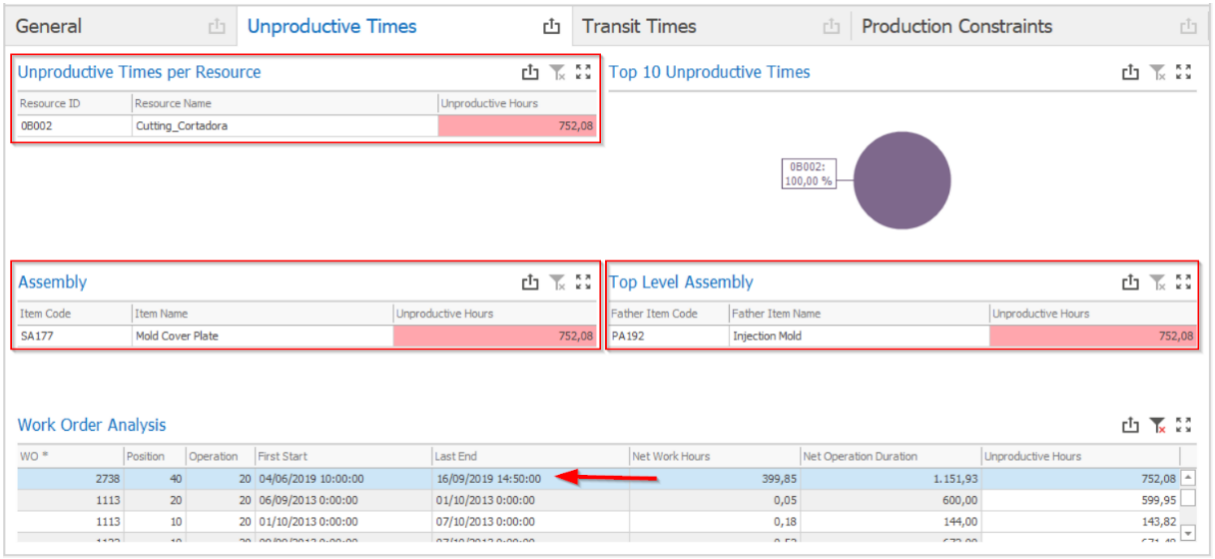


This grid displays all the work orders that had unproductive times while being processed, highlighting in stronger red the ones with more unproductive times. The “Work Order Analysis” grid presents the following information:

© 2026 Boyum IT Solutions A/S

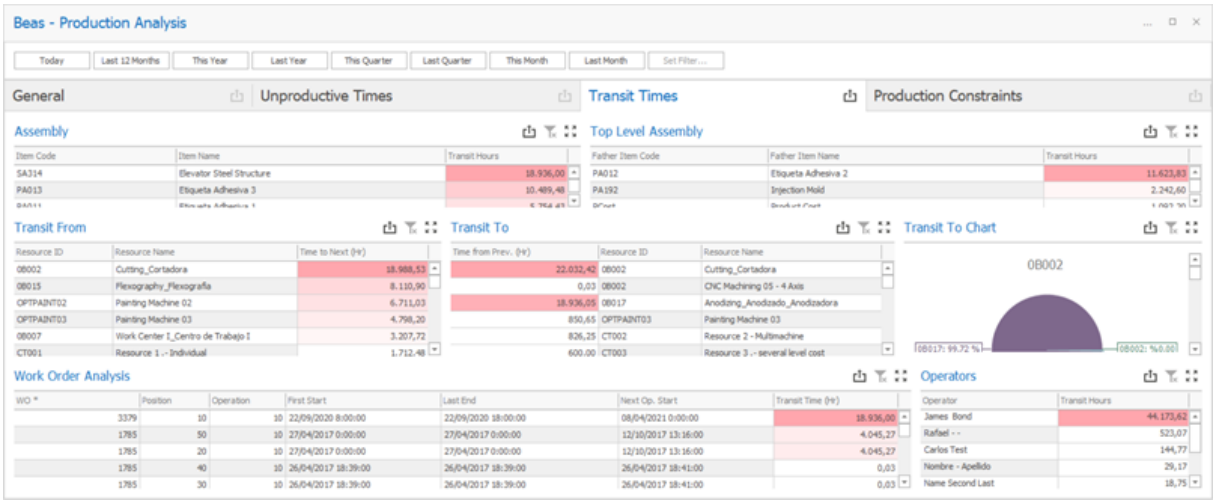
a) **WO / Position / Operation**: Identification of the work order. When double-clicking the "WO" column, Beas automatically opens the structure view for the selected work order, enabling a fast analysis of possible problems;
b) **First Start / Last End**: Date and time of the first and the last time receipts related to each routing position that presented unproductive times;
c) **Net Work Hours**: Total work hours registered for each routing position, discounting the non-workable hours (according to the resources' calendars) from the work hours when the time receipts last for more than one day. If the first start or last end happened before or after the resources' available hours, those are not discounted and are considered as overtime (the discounts are only applied to the days in between the first and last days);
d) **Net Operation Duration**: Total amount of hours in between the first start and the last end of each routing position, discounting the non-workable hours (according to the resources' calendars) from the number of hours when the first start and last end happened on different days. If the first start or last end happened before or after the resources' available hours, those are not discounted and are considered as overtime (the discounts are only applied to the days in between the first and last days);
e) **Unproductive Hours**: The calculated difference in between the Net Operation Duration and the Net Work Hours.

If you wish to know which assemblies or resources were related to a specific work order, you just need to click on it and check the results under the Unproductive Times per Resource, Assembly / Top Level Assembly grids.



© 2026 Boyum IT Solutions A/S

18.5.4.3 Transit Times Tab



The Transit Times tab provides an analysis over the times wasted across the different production operations for manufacturing the products, considering any delay in between the end of an operation and the beginning of the next one (due to internal movements, waiting for materials, waiting for operator, etc.) as transit time. This dashboard can help you to identify possibilities for improving your processes to reduce time wasting and achieve a higher productivity.

Important: Only the times registered in between the routing positions of a same work order position are part of the transit times calculation. Times in between the end of a work order position and the beginning of another one do not affect the calculation of transit times.

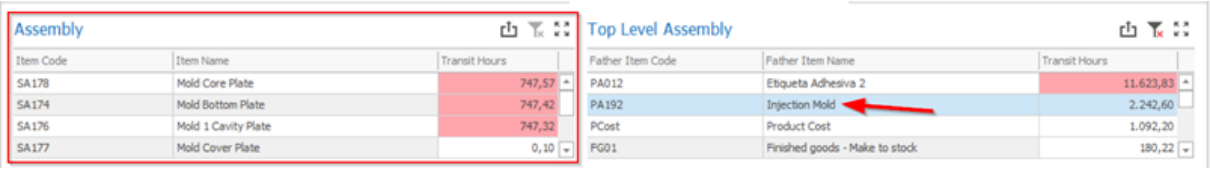
Dashboard sections:

Assembly / Top Level Assembly
Transit From / Transit To
Transit To Chart
Work Order Analysis
Operators

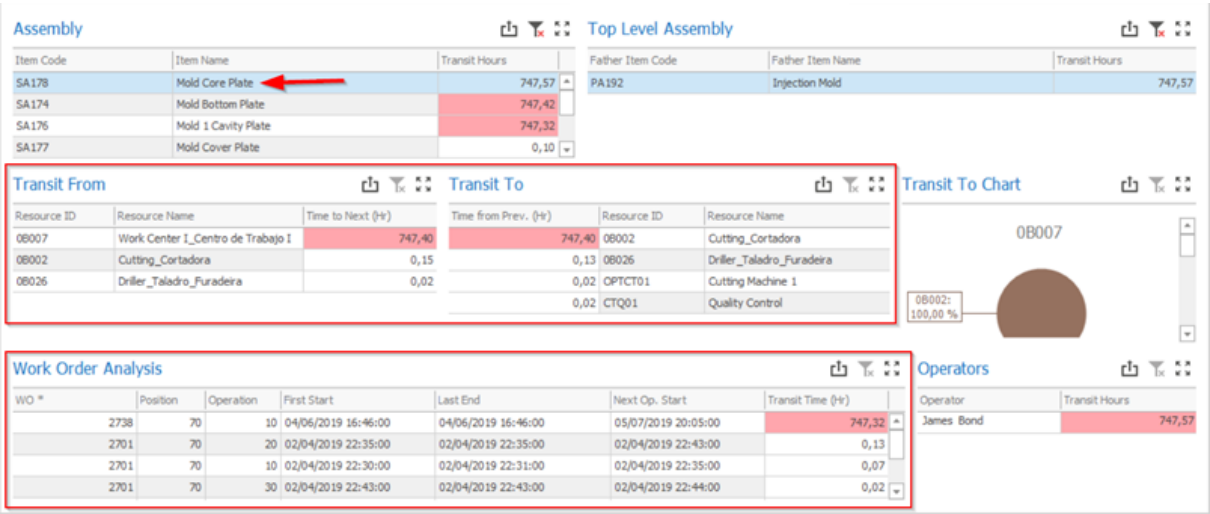
18.5.4.3.1 Assembly / Top Level Assembly

© 2026 Boyum IT Solutions A/S

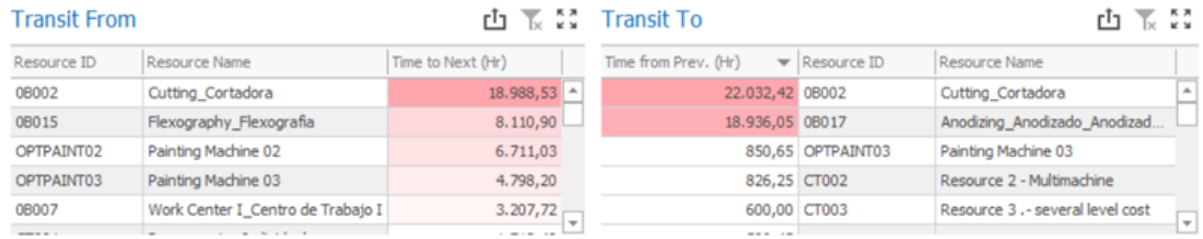
The “Assembly” and “Top Level Assembly” grids work together to display the manufactured items and corresponding father items related to transit times. When clicking on a father item, it is possible to know which assemblies or subassemblies have generated more transit times.



To understand in which resources and work orders the transit times were produced, you just need to click on an assembly or top-level assembly, and check the results under the Transit From/Transit To and Work Order Analysis grids.



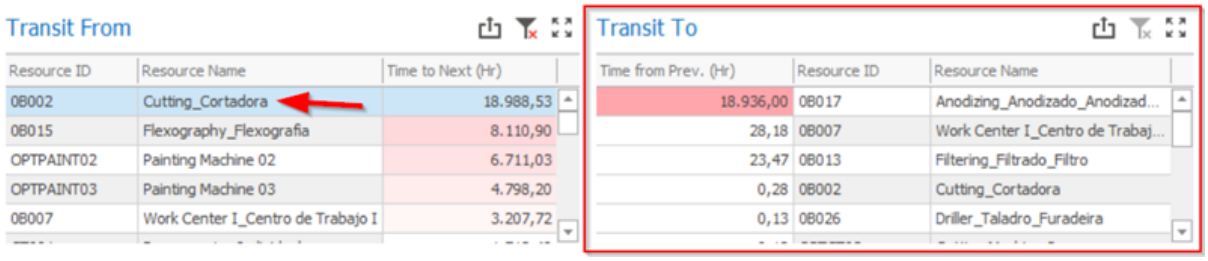
18.5.4.3.2 Transit From / Transit To



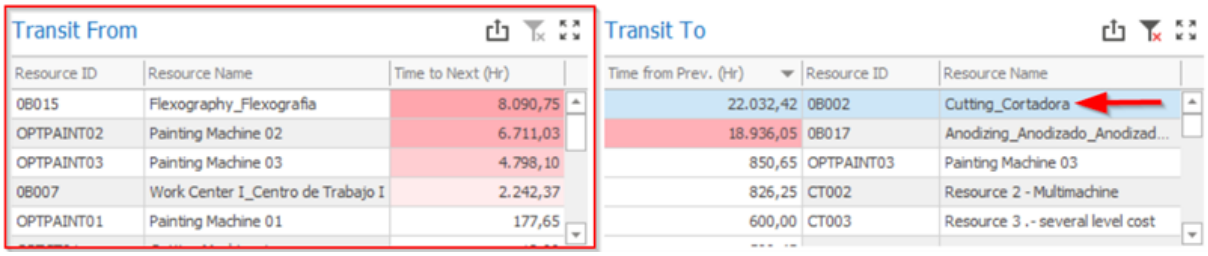
The “Transit From” and “Transit To” grids enable you to view both the resources that are generating more transit times when moving the production into the next resources, and the resources that required more transit times to receive the production from the previous resources, as well as the relationships between them.

© 2026 Boyum IT Solutions A/S

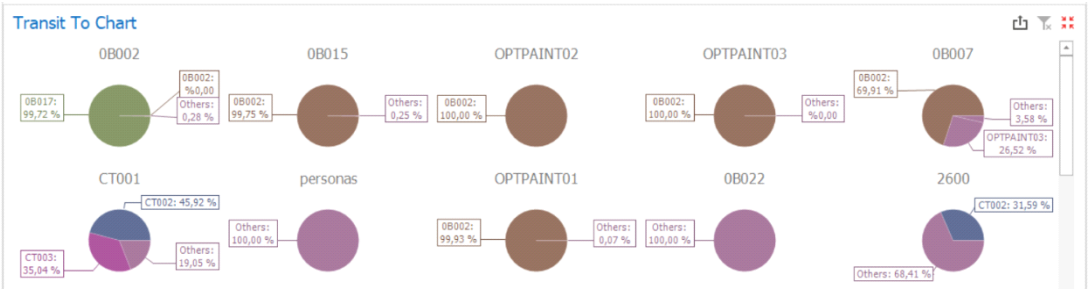
By clicking on a resource contained in the “Transit From” grid, “Transit To”, the information is updated to display all the resources that followed the selected one across the production processes and how the transit time was distributed.



When clicking on a resource contained in the “Transit To” grid, “Transit From”, the information is updated to display all the resources that preceded the selected one across the production processes and how much transit times were generated.



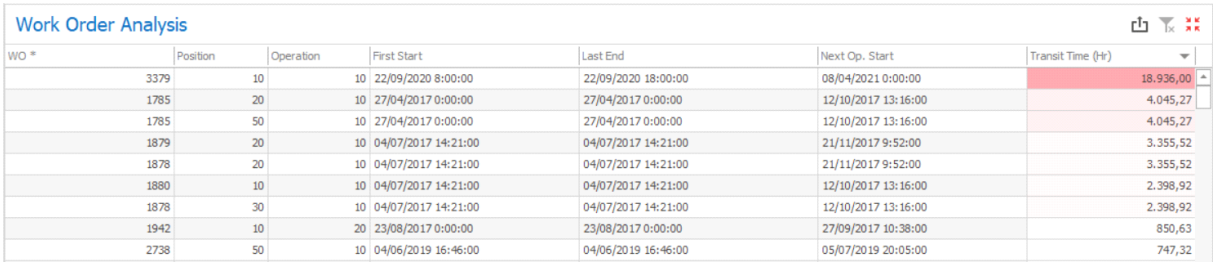
18.5.4.3.3 Transit To Chart



This chart is displayed as individual pies all resources from the “Transit From” grid and detail in slices how their transit times were distributed into the resources listed in the “Transit To” grid.

© 2026 Boyum IT Solutions A/S

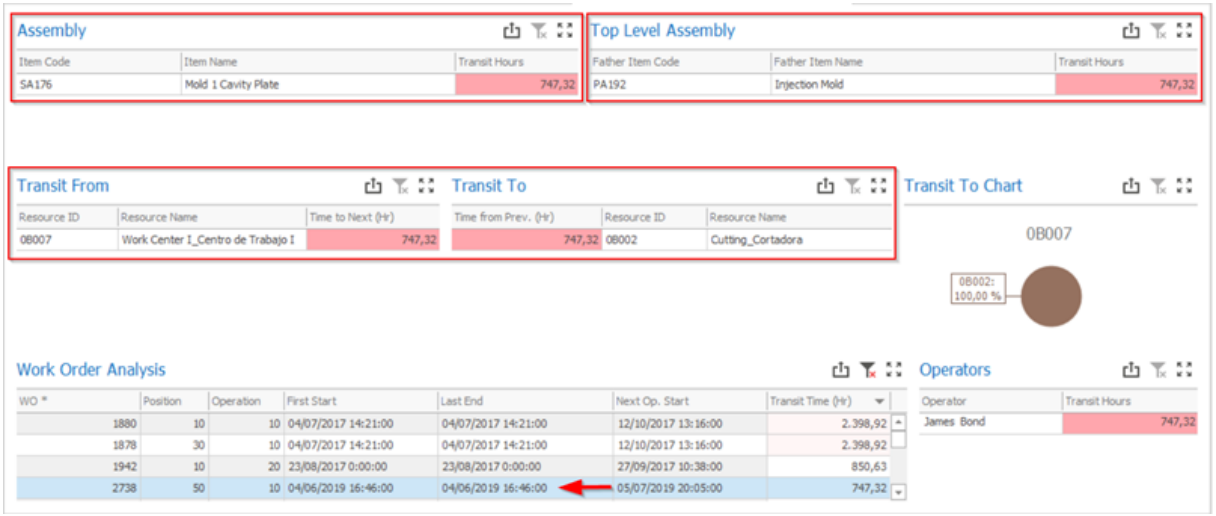
18.5.4.3.4 Work Order Analysis



This grid displays all the work orders that had transit times while being processed, highlighting in stronger red the ones with more transit times. The "Work Order Analysis" grid presents the following information:

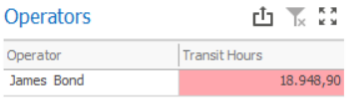
a) **WO / Position / Operation**: Identification of the work order. When double-clicking the "WO" column, Beas automatically opens the structure view for the selected work order, enabling a fast analysis of possible problems;
b) **First Start / Last End**: Date and time of the first and the last time receipts related to each routing position that presented transit times;
c) **Next Op. Start**: Date and time in which the next operation (within the same work order position) started, ignoring all the last routing positions as they don't have a succeeding operation.

If you wish to know which assemblies or resources were related to a specific work order, you just need to click on it and check the results under the Assembly / Top Level Assembly, Transit From / Transit To grids.



© 2026 Boyum IT Solutions A/S

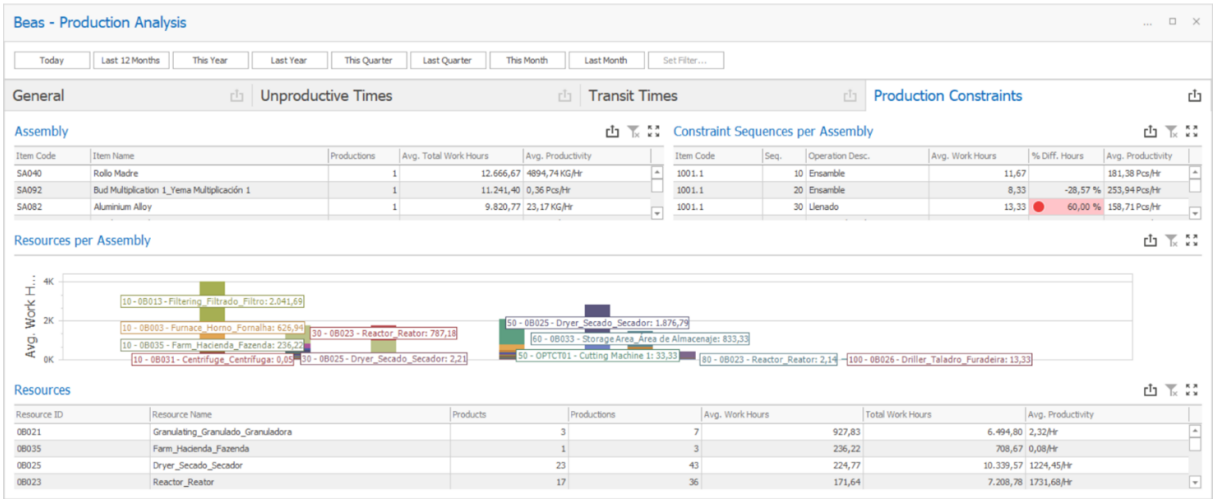
18.5.4.3.5 Operators



The “Operators” grid shows all the operators related to productions with associated transit times. When clicking in an operator, the dashboard filters all work orders, resources and assemblies in which the selected operator has worked.

18.5.4.4 Production Constraints Tab

The Production Constraints tab is aimed at identifying the production stages, assemblies, and resources that could represent constraints for the different production processes, showing the average productivity per hour for each one of them and how the productivity varies across the manufacturing steps. This dashboard can help you to identify which processes are preventing you from having a shorter production cycle time, as well as to find the best stages of your manufacturing process for which you could build inventory buffers, aiding in the implementation of DDMRP practices.



Dashboard sections:

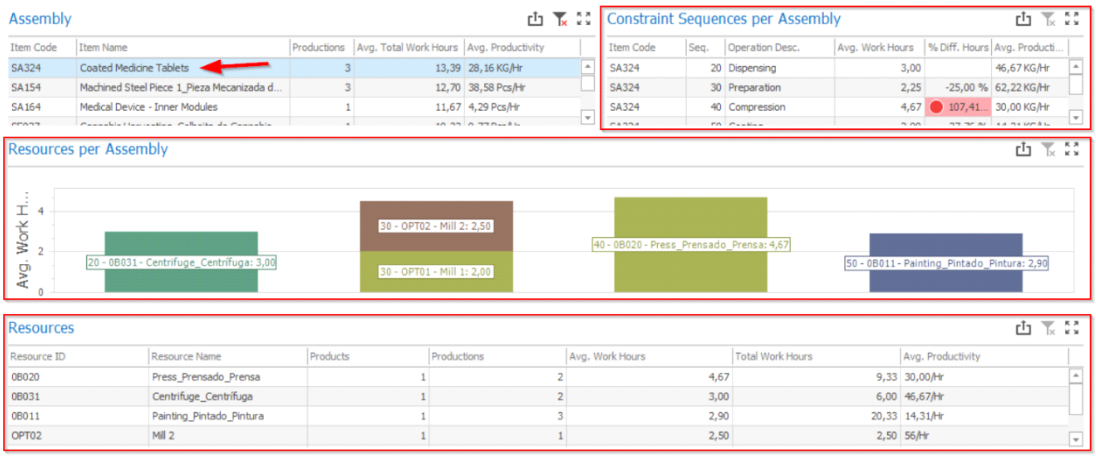
© 2026 Boyum IT Solutions A/S

Assembly
Constraint Sequences per Assembly
Resources per Assembly
Resources

18.5.4.4.1 Assembly

This grid displays all the produced assemblies and their average productivity per hour. The "Assembly" grid presents the following information:

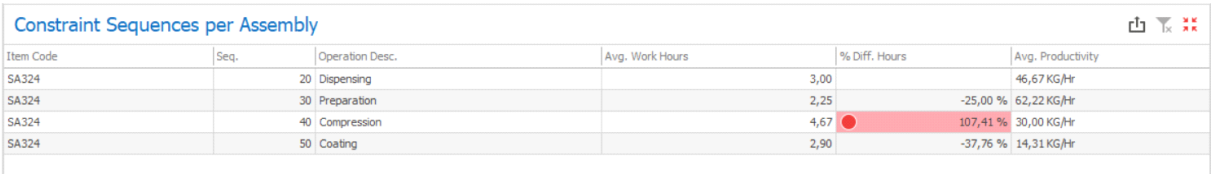
a) **Item Code / Item Name**: Identification of the assemblies;
b) **Productions**: Number of times that the assemblies were produced (counting of work order positions);
c) **Avg. Total Work Hours:** Global average of net work hours registered for the production of each assembly, across all their routing positions. The net work hours are calculated by discounting the non-workable hours (according to the resources' calendars) from the work hours when the time receipts last for more than one day. If the first start or last end happened before or after the resources' available hours, those are not discounted and are considered as overtime (the discounts are only applied to the days in between the first and last days);
d) **Avg. Productivity**: How much of the assemblies' unit of measures were produced during the total net work hours registered for their production.



© 2026 Boyum IT Solutions A/S

If you wish to know how much the productivity for each assembly varied during their production stages and which resources were used in their manufacturing process, you just need to click on an assembly and check the results under the Constraint Sequences per Assembly, Resources per Assembly, and Resources sections.

18.5.4.4.2 Constraint Sequences per Assembly

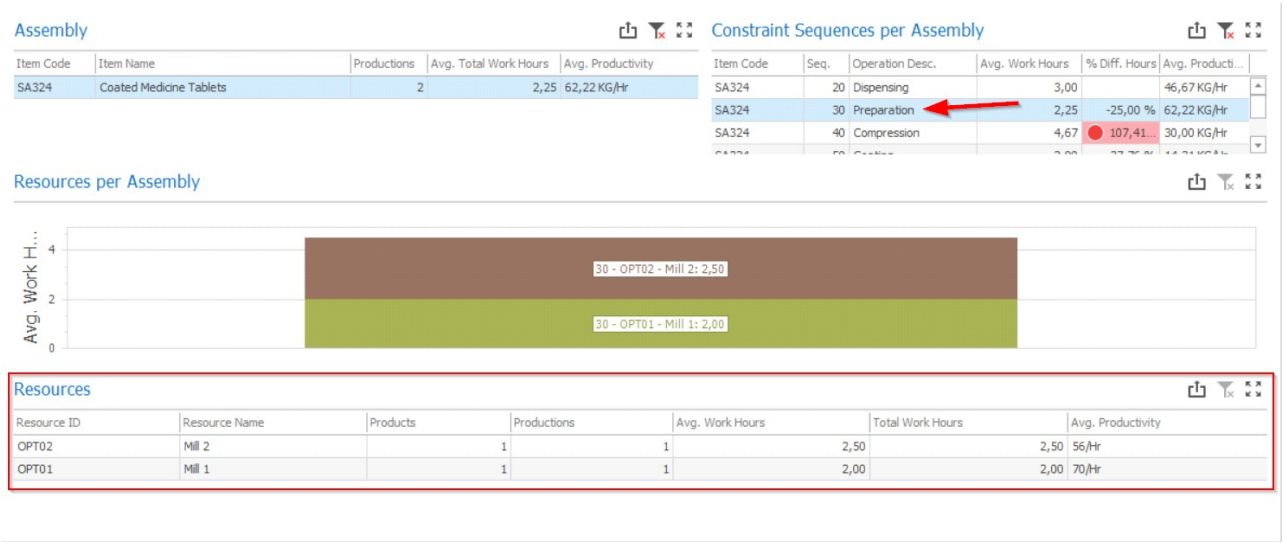


This grid displays all the manufacturing stages (routing positions) for each assembly and their average productivities per hour, as well as the variations between them. The Assembly grid presents the following information:

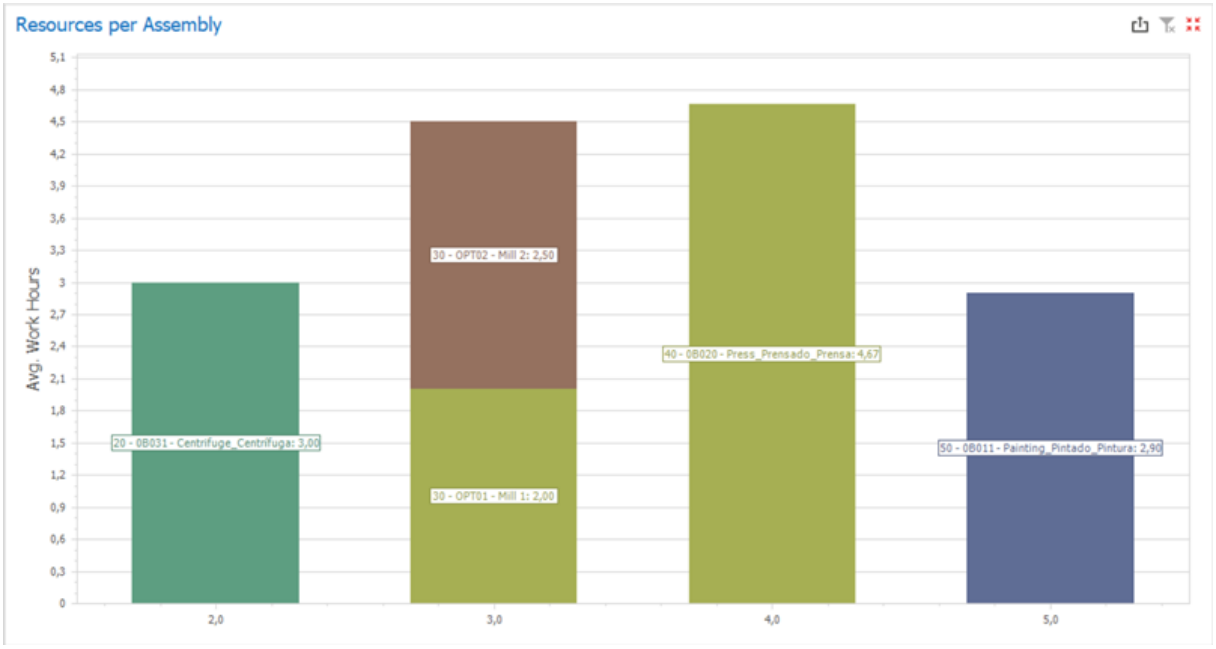
a) **Item Code**: Identification of the assembly;
b) **Seq**.: ID of the routing position;
c) **Operation Desc**.: Description of the routing position;
d) **Avg. Work Hours**: Average net work hours registered for each routing position executed for the assemblies' manufacturing. The net work hours are calculated by discounting the non-workable hours (according to the resources' calendars) from the work hours when the time receipts last for more than one day. If the first start or last end happened before or after the resources' available hours, those are not discounted and are considered as overtime (the discounts are only applied to the days in between the first and last days);
e) **% Diff. Hours**: Percentual variation in between the productivity of the current routing position and the previous one. The differences are highlighted in a red scale, with a stronger red representing a higher variation. Additionally, all percentual differences higher than 50% are identified with a red circle.
f) **Avg. Productivity**: How much of the assemblies' unit of measures were produced during the total net work hours registered for each routing position (this grid does not consider different UoMs per routing position, the UoMs are read directly from the assembly).

To understand which resource or resources were used in each routing position, you could either check the Resources per Assembly chart or click on a routing position and check the results under the Resources grid.

© 2026 Boyum IT Solutions A/S



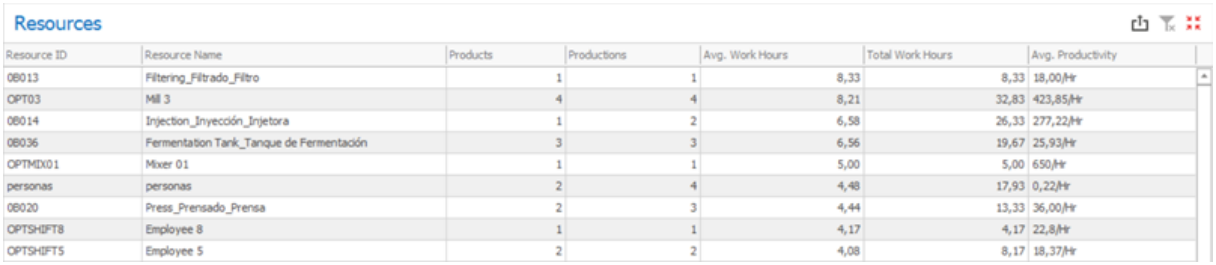
18.5.4.4.3 Resources per Assembly



This chart displays the average net work time for each routing position used in the different production processes, making it easier to see variations in productivity and understand the steps that are making the processes slower. When more than one resource was used in a same routing position (like in the cases of alternative resources), they are both displayed on the chart, each one of them with its current average work time.

© 2026 Boyum IT Solutions A/S

18.5.4.4.4 Resources



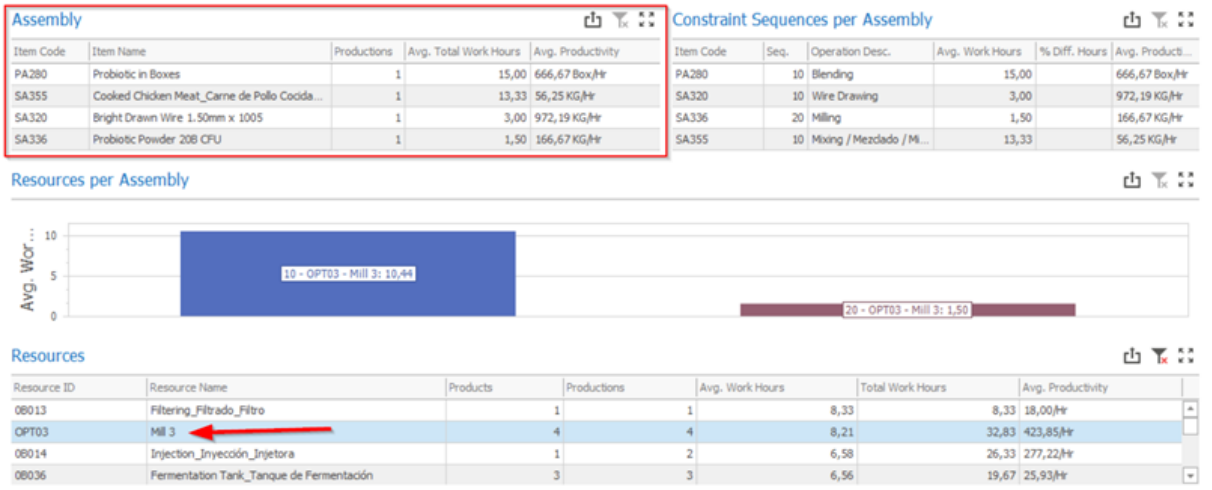
Resource ID	Resource Name	Products	Productions	Avg. Work Hours	Total Work Hours	Avg. Productivity
08013	Filtering_Filtrado_Filtro	1	1	8,33	8,33	18,00/Hr
OPT03	Mill 3	4	4	8,21	32,83	423,85/Hr
08014	Injection_Inyección_Injetora	1	2	6,58	26,33	277,22/Hr
08036	Fermentation Tank_Tanque de Fermentación	3	3	6,56	19,67	25,93/Hr
OPTMIX01	Mixer 01	1	1	5,00	5,00	650/Hr
personas	personas	2	4	4,48	17,93	0,22/Hr
08020	Press_Prensado_Prensa	2	3	4,44	13,33	36,00/Hr
OPTSHIFT8	Employee 8	1	1	4,17	4,17	22,8/Hr
OPTSHIFT5	Employee 5	2	2	4,08	8,17	18,37/Hr

This grid displays all the produced assemblies and their average productivities per hour. The Assembly grid presents the following information:

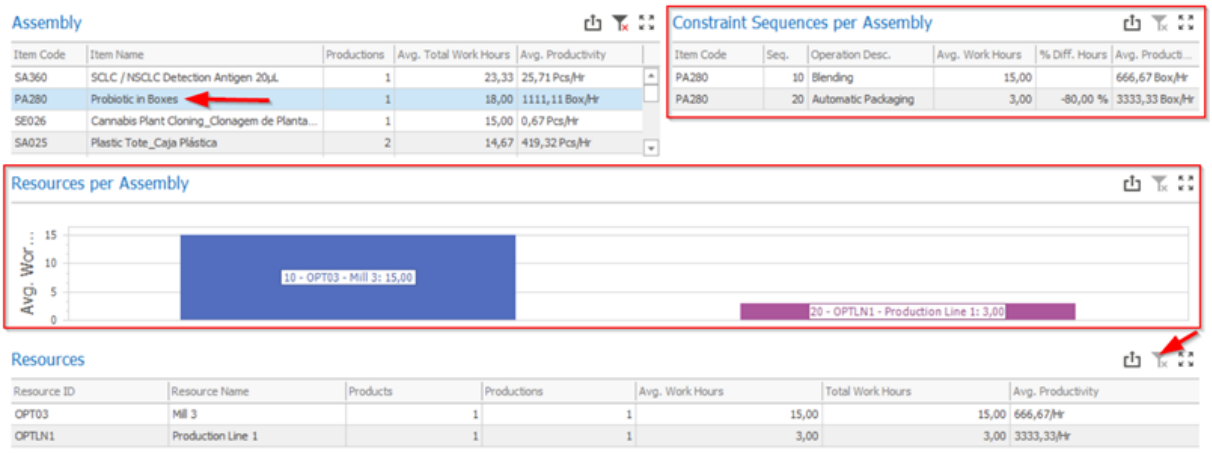
a) **Resource ID / Resource Name:** Identification of the resources;
b) **Products**: Number of products processed by each resource (counting of item codes);
c) **Productions**: Number of productions executed by each resource (counting of work order positions);
d) **Avg. Work Hours**: Global average of net work hours registered for each resource, across all their productions. The net work hours are calculated by discounting the non-workable hours (according to the resources' calendars) from the work hours when the time receipts last for more than one day. If the first start or last end happened before or after the resources' available hours, those are not discounted and are considered as overtime (the discounts are only applied to the days in between the first and last days);
e) **Total Work Hours**: Total net work hours registered for each resource, across all their productions. The net work hours are calculated by discounting the non-workable hours (according to the resources' calendars) from the work hours when the time receipts last for more than one day. If the first start or last end happened before or after the resources' available hours, those are not discounted and are considered as overtime (the discounts are only applied to the days in between the first and last days);
f) **Avg. Productivity**: Global average productivity for the resources, considering the produced amounts and the total net work hours registered for each one of them. As the same resource can be used to process items with different units of measurement, no UoM is displayed in the resources' productivities.

Using the Resources grid, it is very easy to know how a resource with lower-than-expected productivity might be affecting the productivities across the different products, and in which routing positions they are used. For that, you just need to click on a resource and check the processed items under the Assembly grid.

© 2026 Boyum IT Solutions A/S



Then, to understand how this resource is affecting the manufacturing stages of a particular product, you just need to click on the assembly, clear the resource filter, and check the results under the Constraint Sequences per Assembly and Resources per Assembly sections.



18.5.5 Production Planning Overview

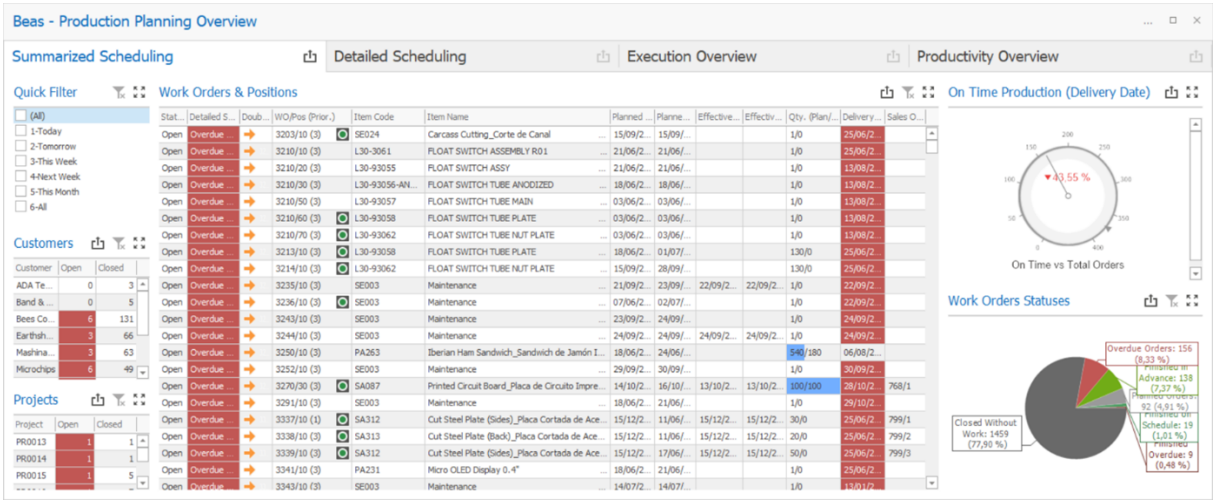
The Production Planning Overview dashboard contains a series of analytical views over the scheduled production and the execution of the work orders and is separated in four tabs:

Summarized Scheduling,
Detailed Scheduling,
Execution Overview,
Productivity Overview.

© 2026 Boyum IT Solutions A/S

Since tabs 2 and 4 of this dashboard work with current data, there is no possible filtering; for tab 1, it is possible to filter the data using the Quick Filter, or directly filtering the desired columns; for tab 3, the data can be filtered using the pre-made filters for defined time ranges (last 7 days, this month, last month, this year, last year, last 12 months). Manual filtering can be done by clicking on "Set Filter...". For performance reasons, this dashboard will load data from the current and from the previous year only.

18.5.5.1 Summarized Scheduling Tab



The Summarized Scheduling tab is aimed at providing an overview of the open and closed work orders, with quick filters to easily know the orders that are planned, were started, or were finished in specific time ranges, a delivery performance KPI, and a chart that groups the orders according to their status. Additionally, the Summarized Scheduling tab interacts with the Detailed Scheduling tab, meaning that any filters or selections applied on Summarized Scheduling also filter the data under the Detailed Scheduling tab.

Dashboard sections:

Work orders and Positions

Quick Filter

Customers

Projects

On Time Production (Delivery Date)

Work Order Statuses (Current Month)

© 2026 Boyum IT Solutions A/S

18.5.5.1.1 Work Orders and Positions

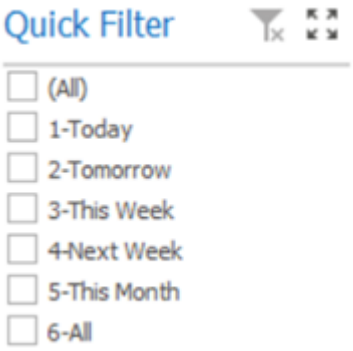
This grid displays all the open and closed work orders from this and from the past year, whose data can be filtered using the auxiliary grids, or by directly defining filters for the desired columns. When double-clicking any line on this grid, Beas opens the structure view for the selected work order. The "Work Orders & Positions" grid presents the following information:

a) **Status**: Work order/position status, which can be "Open" or "Closed";
b) **Detailed Status**: Specific status to help understanding the situation of each work order:
    Closed work orders:
        Finished on Schedule: Work order closed during its scheduled dates;
        Finished in Advance: Work order closed before its scheduled dates;
        Finished Overdue: Work order closed after its scheduled dates;
        Closed Without Work: Work orders opened and closed without any transaction.
    Open work orders:
        Planned Orders: Work order with end date scheduled for today or for the future;
        Overdue Orders: Work order with end date scheduled for past days.

c) **WO/Pos (Prior.)**: Work order number/position number (work order priority). When any of the work order position's operations are in work (have active times registered from the terminals), a green icon is displayed at its side;
d) **Item Code / Item Name**: Identification of the manufactured item;
e) **Planned Start**: First scheduled start date and time for the work order position;
f) **Planned End**: Last scheduled end date and time for the work order position;
g) **Effective Start:** First time receipt's start date and time for the work order position;
h) **Effective End**: Last time receipt's end date and time for the work order position;
i) **Qty. (Plan/Actual)**: Quantity (planned / actual). A blue progress bar represents how much of the planned quantities were already produced and, in the cases where actual production surpassed the planned amounts, the values are highlighted in bold dark gray 100/150;
j) **Delivery Date**: Delivery date of the work order position. When the delivery date is already overdue or if the planned end is for after the delivery date, the Delivery Date is highlighted with a red background color;
k) **Sales Order**: Sales order/line linked to the work order position.

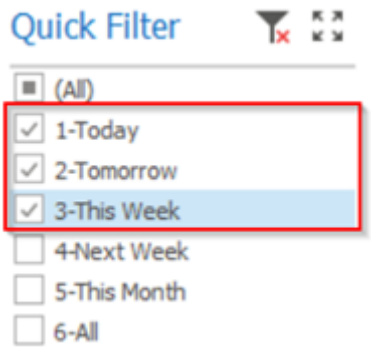
© 2026 Boyum IT Solutions A/S

18.5.5.1.2 Quick Filter



The quick filter contains pre-made smart filters for displaying work orders whose planned start, planned end, effective start, or effective end fall under the selected category.

Important: Each Quick Filter category does not include the previous ones. This means that "3-This Week" does not include "1-Today" or "2-Tomorrow", only orders after tomorrow and until the end of this week. To list all the work orders belonging to this week, you must select the three categories: "1-Today", "2-Tomorrow", and "3-This Week". The same applies "5-This Month", for which you must select all categories prior to it as well.

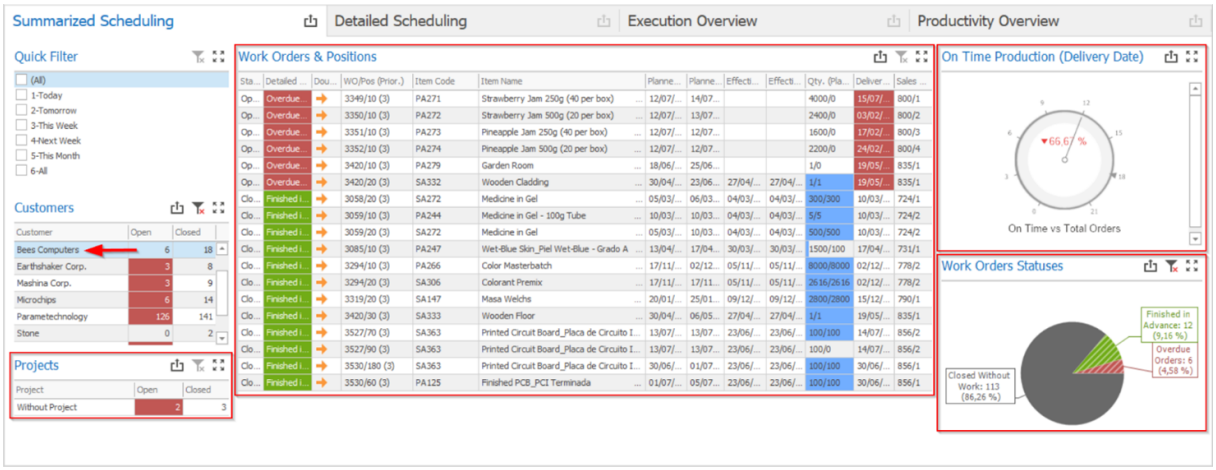


18.5.5.1.3 Customers

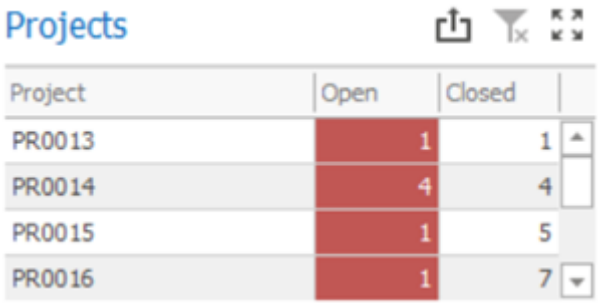
© 2026 Boyum IT Solutions A/S

This grid shows all the customers related to the work order positions, counting the open and closed work order positions in different columns. Whenever a customer is linked to overdue work order positions (considering the delivery date as comparison base), the “Open” column is highlighted with a red background color. When the work order positions are not linked to customers, they will be displayed as “Without Customer”.

If you wish to know the status of the work order positions and projects linked to the customers, or to understand how the delivery dates are being fulfilled for each one of your customers, you just need to click on the desired customer and check the results under the Projects, Work Orders & Positions, Work Order Statuses, and On Time Production (Delivery Date) sections.



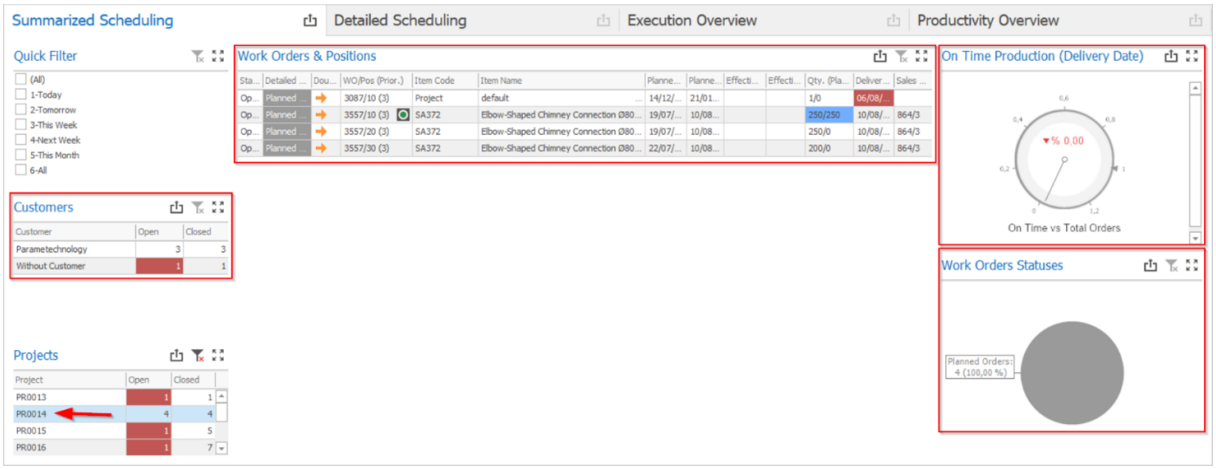
18.5.5.1.4 Projects



This grid shows all the projects related to the work order positions, counting the open and closed work order positions in different columns. Whenever a project is linked to overdue work order positions (considering the delivery date as comparison base), the “Open” column is highlighted with a red background color. When the work order positions are not linked to projects, they will be displayed as “Without Project”.

© 2026 Boyum IT Solutions A/S

If you wish to know the status of the work order positions and customers linked to the projects, or to understand how the delivery dates are being fulfilled for each one of your projects, you just need to click on the desired project and check the results under the "Customers", Work Orders & Positions, Work Order Statuses, and On Time Production (Delivery Date) sections.

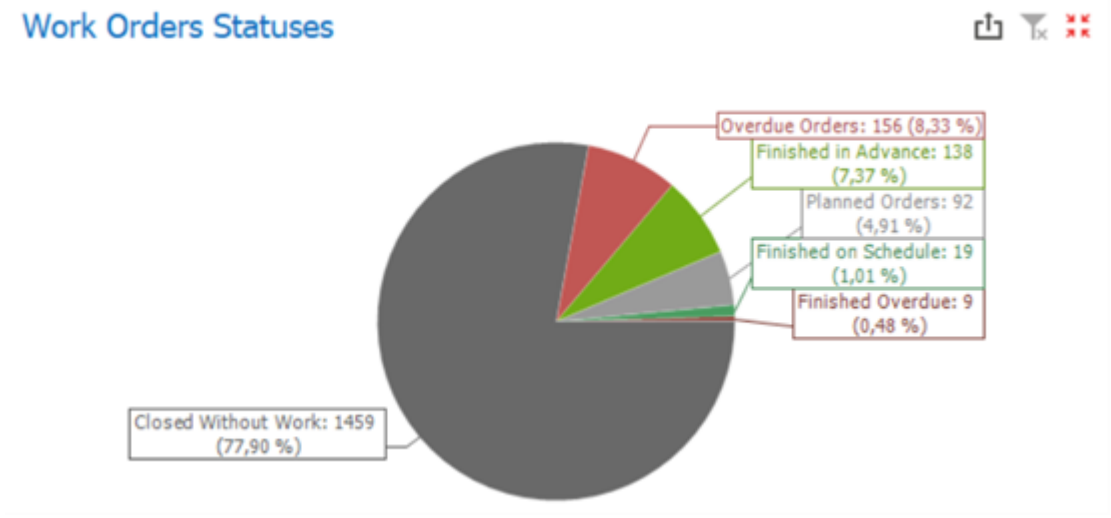


18.5.5.1.5 On Time Production (Delivery Date)

This chart shows how the delivery dates are being fulfilled, either globally or by customer, project, or any other filter that can be applied in the dashboard. Only work order positions that are closed or whose delivery dates are already overdue (passed or when the planned end is after the delivery date) are considered for the On Time Production (Delivery Date) KPI calculation.

© 2026 Boyum IT Solutions A/S

18.5.5.1.6 Work Order Statuses (Current Month)



This chart details the execution of the work orders in the selected time range (using the Quick Filter or directly filtering the date columns). The available statuses are different for closed and open work orders:

Closed:

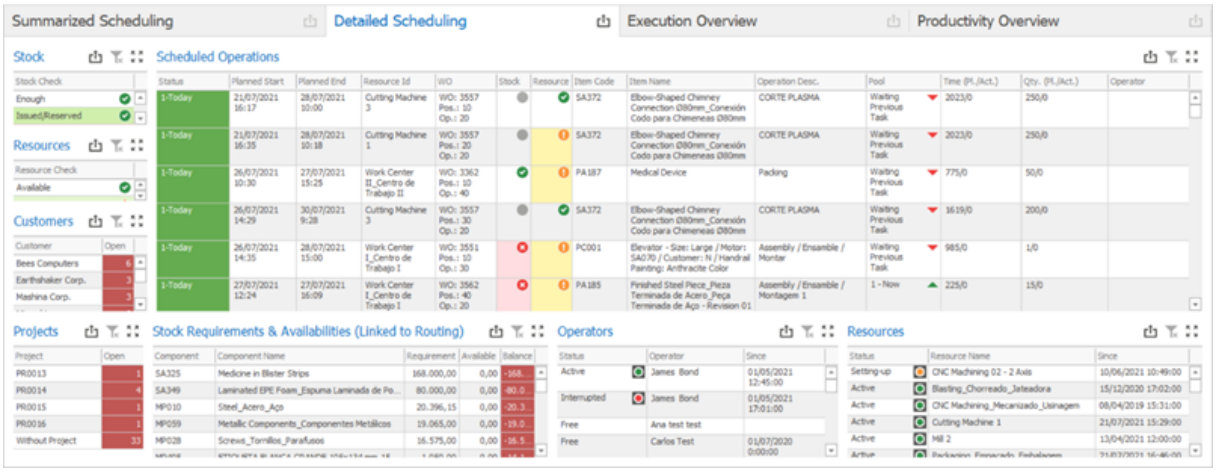
a) **Finished on Schedule**: Work order closed during its scheduled dates;
b) **Finished in Advance**: Work order closed before its scheduled dates;
c) **Finished Overdue**: Work order closed after its scheduled dates;
d) **Closed Without Work**: Work orders opened and closed without any transaction.

Open:

a) **Planned Orders**: Work orders with end dates scheduled for today or for the future;
b) **Overdue Orders**: Work orders with end dates scheduled for past days.

© 2026 Boyum IT Solutions A/S

18.5.5.2 Detailed Scheduling Tab



The Detailed Scheduling tab has two main objectives:

1) being a tool for the production managers to understand how the different processes are being planned and performed, the material and resource restrictions for executing the production tasks, and monitoring how the operators and resources are working; and

2) serving as a panel for the shop floor employees to have up-to-date information about the production scheduling and the next tasks that should be performed (especially when using B1UP dashboards from the web).

This tab only presents routing positions that are still open, and the data can be filtered using the auxiliary panels ("Stock", "Resources", "Customers", "Projects", "Operators", and "Resources") or by directly applying filters to the "Scheduled Operations" columns.

Dashboard sections:

Scheduled Operations

Stock (Status)

Resources (Status)

Customers

Projects

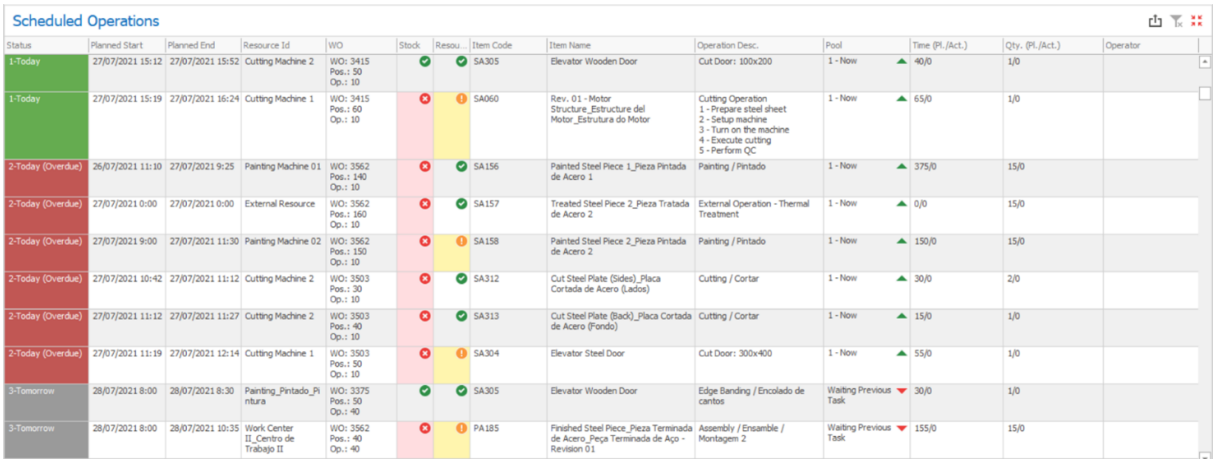
Stock Requirements & Availability (Linked to Routing)

Operators

Resources

© 2026 Boyum IT Solutions A/S

18.5.5.2.1 Scheduled Operations



This grid displays all the open routing positions for the work orders, whose data can be filtered using the auxiliary grids, or by directly defining filters for the desired columns. The “Scheduled Operations” grid presents the following information:

a) **Status**: Routing position scheduling status, which can be “Open” or “Closed”:

1-**Today**: Current date and time are between the planned start and end dates and times for the routing position;

2-**Today (Overdue)**: Current date is between the planned start and end date for the routing position, but the current time is already after its planned end time;

3-**Tomorrow**: The routing position’s planned start is scheduled for tomorrow;

4-**Overdue**: Current date and time are posterior to the planned end date for the routing position;

5-**Future**: The routing position’s planned start is scheduled for a future date (not including tomorrow).

b) **Planned Start:** Planned start date and time for the routing position;

c) **Planned End:** Planned end date and time for the routing position;

d) **Resource ID:** Code of the resource linked to the routing position, which can display two icons:

: Resource setting-up;

: Resource in work;

: Resource interrupted.

e) **WO**: Work order number, position number, and routing position number;

f) **Stock**: Quick stock check for the routing position, which can display the following icons:

© 2026 Boyum IT Solutions A/S

: All required materials are available in stock;

: All required materials have already been consumed or reserved;

: Some or all of the required materials are not available in stock;

: There are no materials linked to the routing position (**important**: materials not linked to any routing position are automatically be linked to routing position **10**).

g) **Resource**: Quick resource availability check for the routing position, which can display the following icons:

: Resource currently available;

: Resource with an active setup time registered for the routing position;

: Resource with an active production time registered for the routing position;

: Resource busy, currently working for another routing position;

: Resource with an active interruption.

h) **Item Code / Item Name**: Identification of the item;

i) **Operation Desc**.: Description of the routing position;

j) **Pool**: Current pool to which the routing position is allocated:

1 – Now: Routing position is in pool 1;

Waiting Previous Task: Routing position is in pool 0 (waiting for the preceding operations to be completed);

NN – In Pool: Routing position is currently allocated to pool NN.

k) **Time (Pl./Act.):** Times (planned / actual). The blue progress bar represents how much of the planned times were already reported and, in the cases where actual times surpassed the planned times, the values are highlighted in bold dark red

;

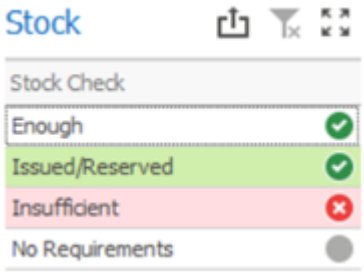
l) **Qty. (Pl./Act.)**: Quantity (planned / actual). The blue progress bar represents how much of the planned quantities were already produced and, in the cases where actual production surpassed the planned amounts, the values are highlighted in bold dark gray

;

m) **Operator**: Name of the operator currently logged in the routing position, as well as the login date and time.

© 2026 Boyum IT Solutions A/S

18.5.5.2.2 Stock (Status)



This grid allows an easy filtering of the Scheduled Operations according to the stock status of each routing position. By holding Shift or Ctrl, it is possible to select more than one status at once.

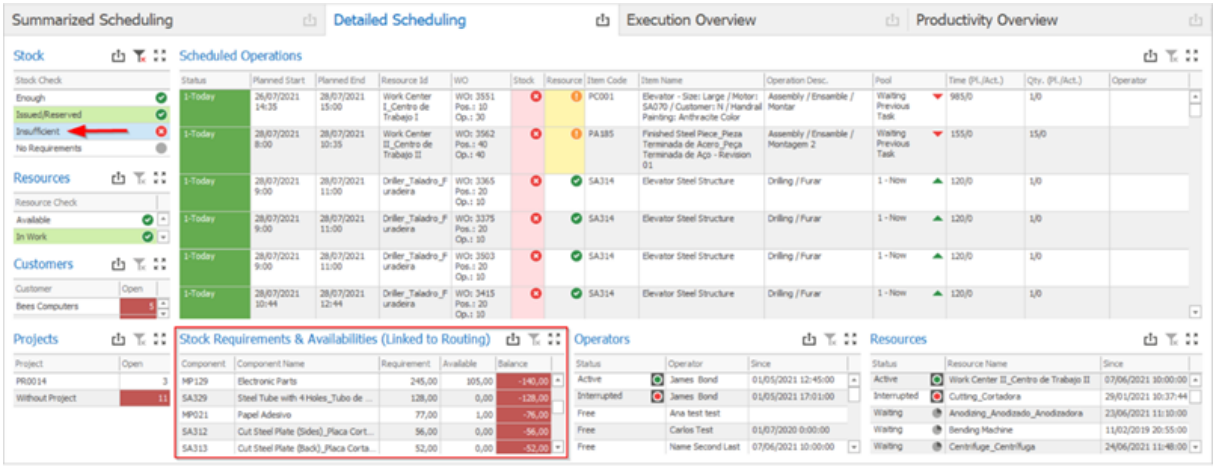
Enough : Show routing positions for which all required materials are available in stock;

Issued/Reserved : Show routing positions for which all required materials have already been consumed or reserved;

Insufficient : Show routing positions for which some or all of the required materials are not available in stock;

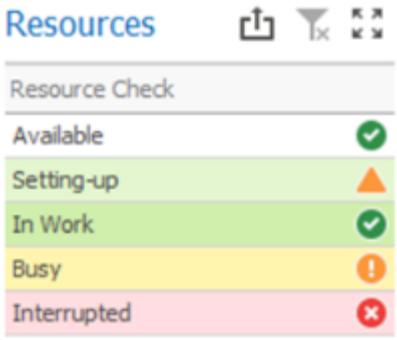
No Requirements : Show routing positions without any materials linked to them (important: materials not linked to any routing position will automatically be linked to routing position 10).

If you wish to have a list of all the materials that are currently missing from stock and affecting the scheduled production operations, you can just click on the "Insufficient" status and check the results under the Stock Requirements & Availabilities (Linked to Routing) grid.



© 2026 Boyum IT Solutions A/S

18.5.5.2.3 Resources (Status)



This grid allows an easy filtering of the Scheduled Operations according to the status of the resources linked to the routing positions. By holding Shift or Ctrl, it is possible to select more than one status at once.

Available : Show routing positions for which the resource is currently available;

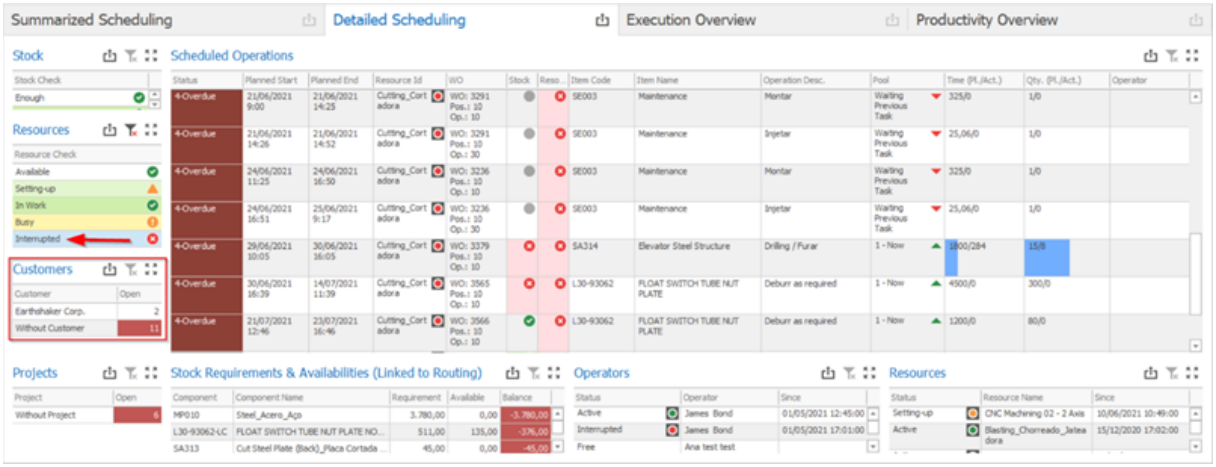
Setting-up : Show routing positions for which the resource has an active setup time registered;

In Work : Show routing positions for which the resource has an active production time registered;

Busy : Show routing positions for which the resources are busy, currently working for other routing positions;

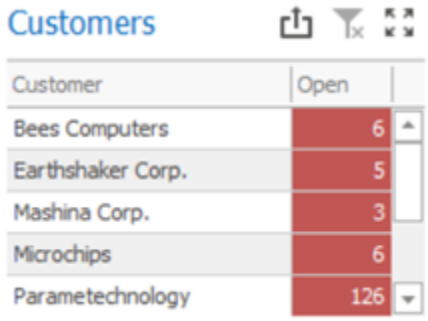
Interrupted : Show routing positions for which the resource has an active interruption.

If you wish to see a list of customers affected by interrupted machines, you can just select the "Interrupted" status and check the results under the "Customers" grid.



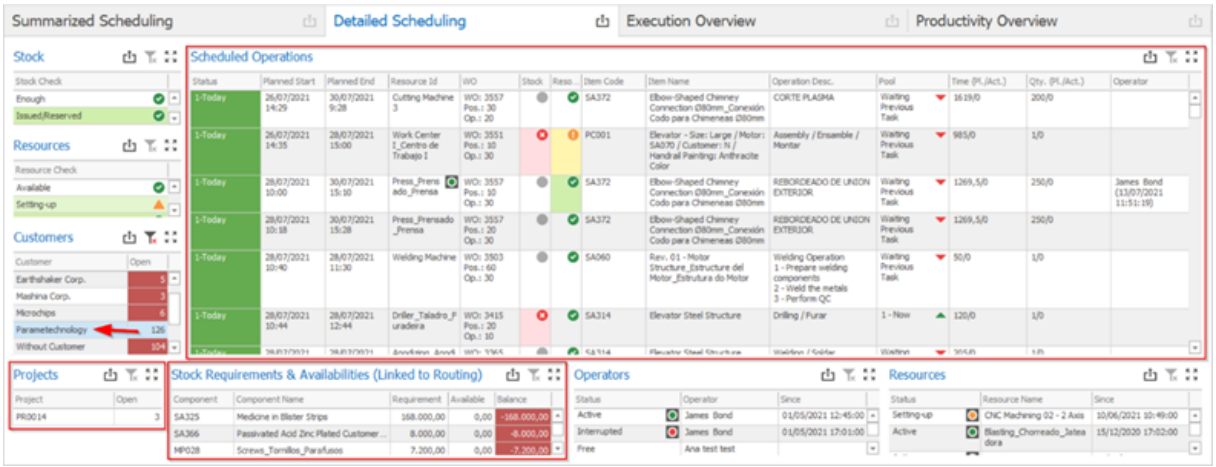
© 2026 Boyum IT Solutions A/S

18.5.5.2.4 Customers



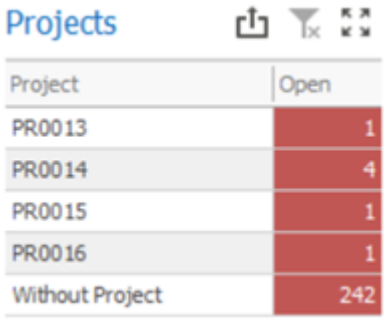
This grid shows all the customers related to open routing positions, counting the open work order positions linked to them. Whenever a customer is linked to overdue work order positions (considering the delivery date as comparison base), the “Open” column is highlighted with a red background color. When the work order positions are not linked to customers, they will be displayed as “Without Customer”.

If you wish to know the status of the routing positions and the projects linked to customers, or to see which materials are missing from stock to complete the production processes, you just need to click on the desired customer and check the results under the Projects, Scheduled Operations, and Stock Requirements & Availabilities (Linked to Routing) grids.



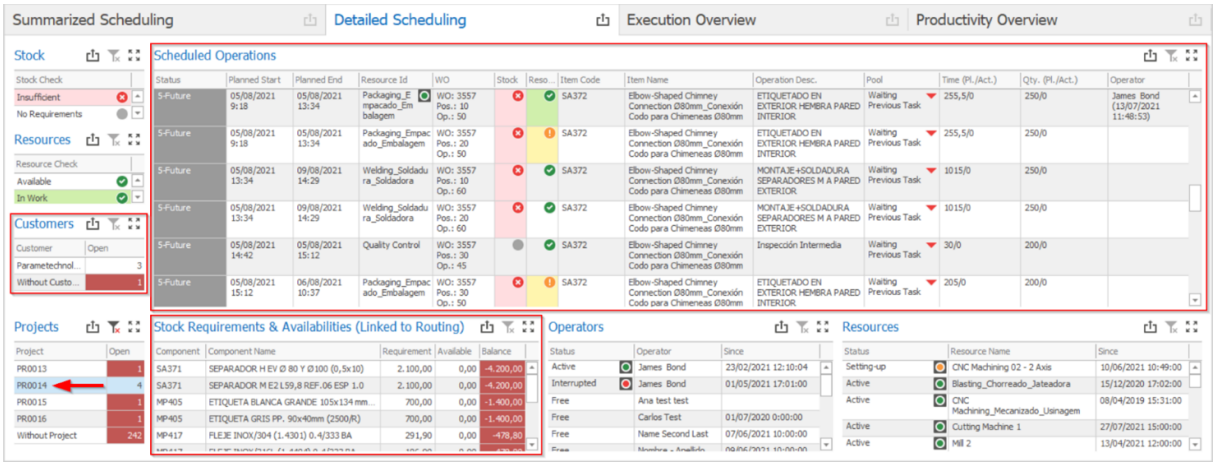
© 2026 Boyum IT Solutions A/S

18.5.5.2.5 Projects



This grid shows all the projects related to open routing positions, counting the open work order positions linked to them. Whenever a project is linked to overdue work order positions (considering the delivery date as comparison base), the “Open” column is highlighted with a red back color. When the work order positions are not linked to projects, they are displayed as “Without Project”.

If you wish to know the status of the routing positions and the customers linked to projects, or to see which materials are missing from stock to complete the production processes, you just need to click on the desired project and check the results under the Customers, Scheduled Operations, and Stock Requirements & Availabilities (Linked to Routing) grids.



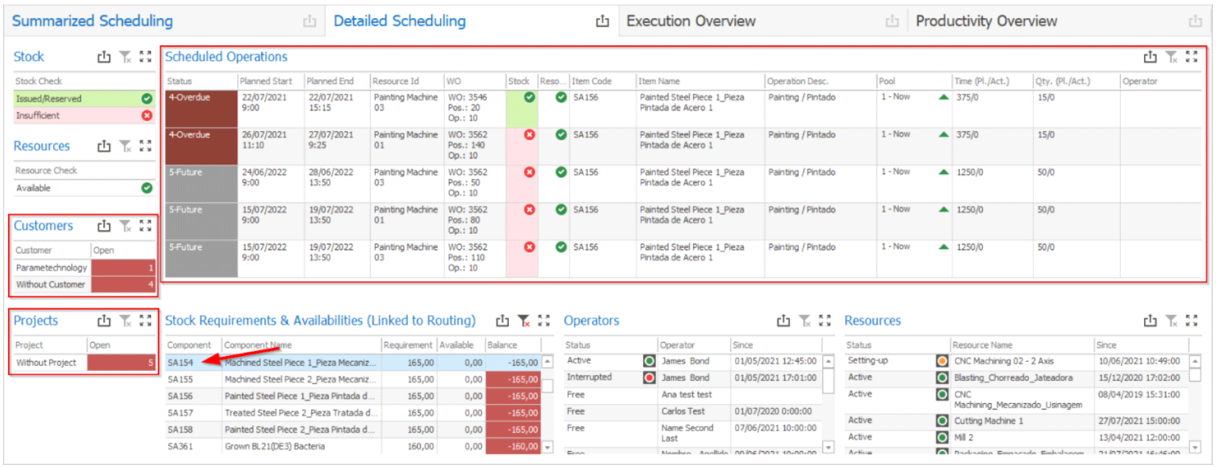
© 2026 Boyum IT Solutions A/S

18.5.5.2.6 Stock Requirements & Availability (Linked to Routing)

Stock Requirements & Availabilities (Linked to Routing)

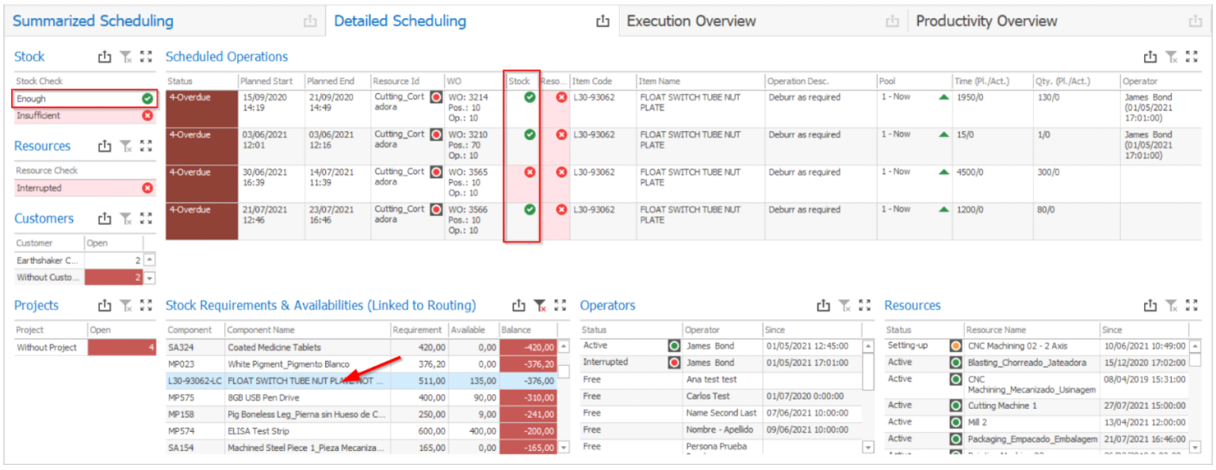
Component	Component Name	Requirement	Available	Balance
MP241	Large Screws_Tornillos Grandes_Parafusos Grandes	1.100,00	0,00	-1.100,00
SA362	SCLC / NSCLC Rapid Test Plate	800,00	0,00	-800,00
SA360	SCLC / NSCLC Detection Antigen 20µL	600,00	0,00	-600,00
MP236	LANA DE ROCA E30 mm (D:100 Kg/m³)	496,00	0,00	-496,00
SA324	Coated Medicine Tablets	420,00	0,00	-420,00
MP023	White Pigment_Pigmento Blanco	376,20	0,00	-376,20
L30-93062-LC	FLOAT SWITCH TUBE NUT PLATE NOT DEBURRED	511,00	135,00	-376,00
MP575	8GB USB Pen Drive	400,00	90,00	-310,00
MP158	Pig Boneless Leg_Pierna sin Hueso de Cerdo_Perna sem...	250,00	9,00	-241,00
MP574	ELISA Test Strip	600,00	400,00	-200,00
SA154	Machined Steel Piece 1_Pieza Mecanizada de Acero 1	165,00	0,00	-165,00
SA155	Machined Steel Piece 2_Pieza Mecanizada de Acero 2	165,00	0,00	-165,00
SA156	Painted Steel Piece 1_Pieza Pintada de Acero 1	165,00	0,00	-165,00

This grid shows all the materials required in production, showing the required amounts (discounting the materials already issued, allocated, or reserved), available stock, and calculated balance. Whenever the balance is negative, the "Balance" column is highlighted with a red background color. If you wish to know which routing positions, customers or projects are affected by the shortage of a specific component, you just need to select the desired component and check the results under the Scheduled Operations, Customers, and Projects grids.



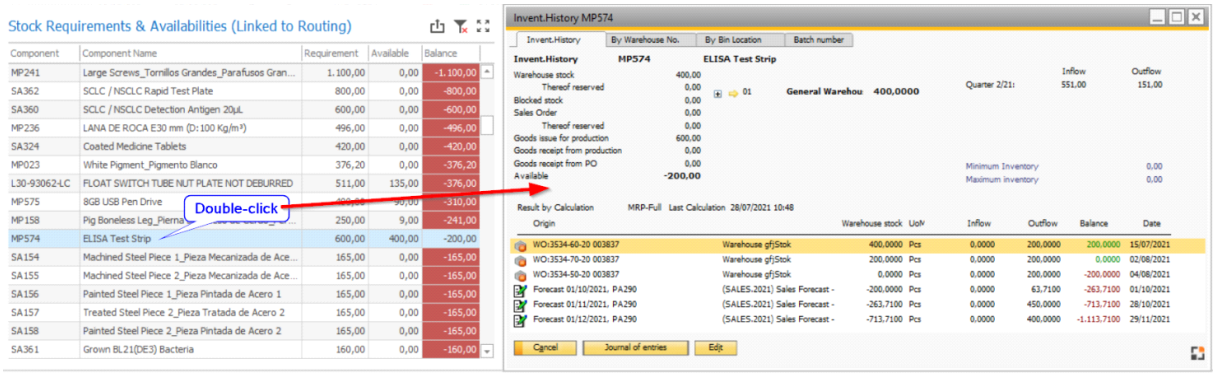
Important: On this grid, balances are calculated for all routing positions currently displayed on the Scheduled Operations grid. This means that, if multiple routing positions require a same component, the component total balance might be negative while the routing positions' stock check shows "Enough" icons; in these cases, the stock is enough for the routing positions individually, but not for all of them together.

© 2026 Boyum IT Solutions A/S



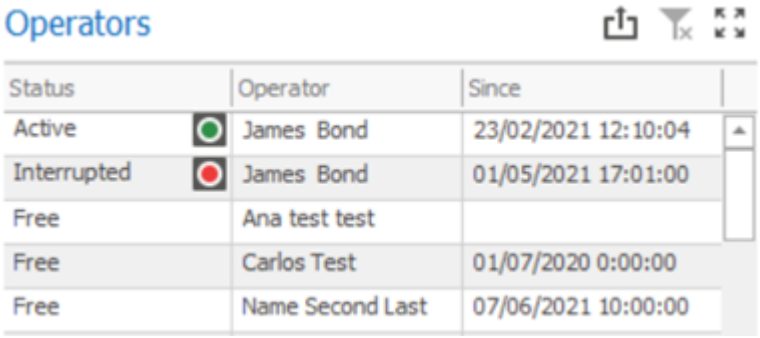
Important: Only outflows are considered for calculating the balances. Future purchases or planned production receipts will not increase the available amounts, the available amounts will only represent the stock available at the current moment, as the goal of this dashboard is to be a tool for short-term production management and execution control.

For viewing future purchases or planned production receipts, the "Stock Requirements & Availabilities (Linked to Routing)" grid has also a B1UP Universal Function embedded into it to automatically display a Beas Inventory History analysis for the components when double-clicking them. If you wish to activate this feature, you must download the UF and import it into B1UP.
DOWNLOAD: Right-click on the link DASH-PPO-INVHISTORY and Save the xml file.



© 2026 Boyum IT Solutions A/S

18.5.5.2.7 Operators



This grid shows all the active employees registered in Beas personnel master data, indicating their current status and since when they are on that status.

a) **Status**: Status of the operator:

Active : Operator with active production times;

Interrupted : Operator with active production times on resources that were interrupted after the production started.

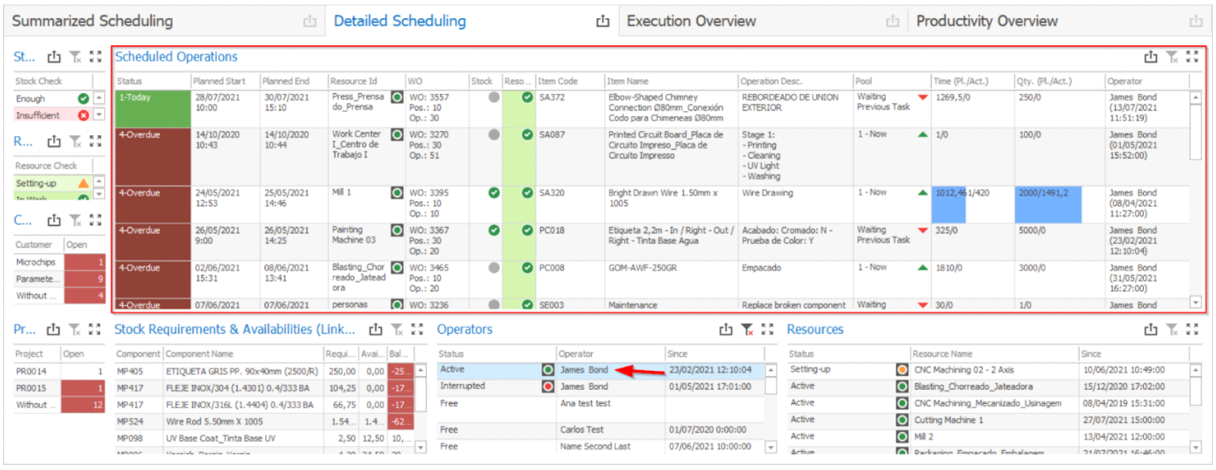
Free: Operator without any active production time.

b) **Operator**: Name of the operator;

c) **Since**: Date and time that represent since when the operators are on the current status. If the operators have active times, the "Since" column displays the date and time in which they logged into the first active production task; if they are free, the "Since" column displays the date and time in which they finished their latest production task. In the cases in which the employees have never worked in production tasks, the "Since" column displays an empty value.

If you wish to know in which routing positions the operators are working or which ones are affected by interruptions, you just need to select the desired operator and status and check the results under the Scheduled Operations grid.

© 2026 Boyum IT Solutions A/S



18.5.5.2.8 Resources

This grid shows all the active resources registered in Beas resource master data, indicating their current status and since when they are on that status.

a) **Status**: Status of the resource:

Setting-up : Resource with active setup times;

Active : Resource with active production times;

Interrupted : Resource with active interruptions;

Waiting : Resource without any active times or interruptions, but with scheduled tasks.

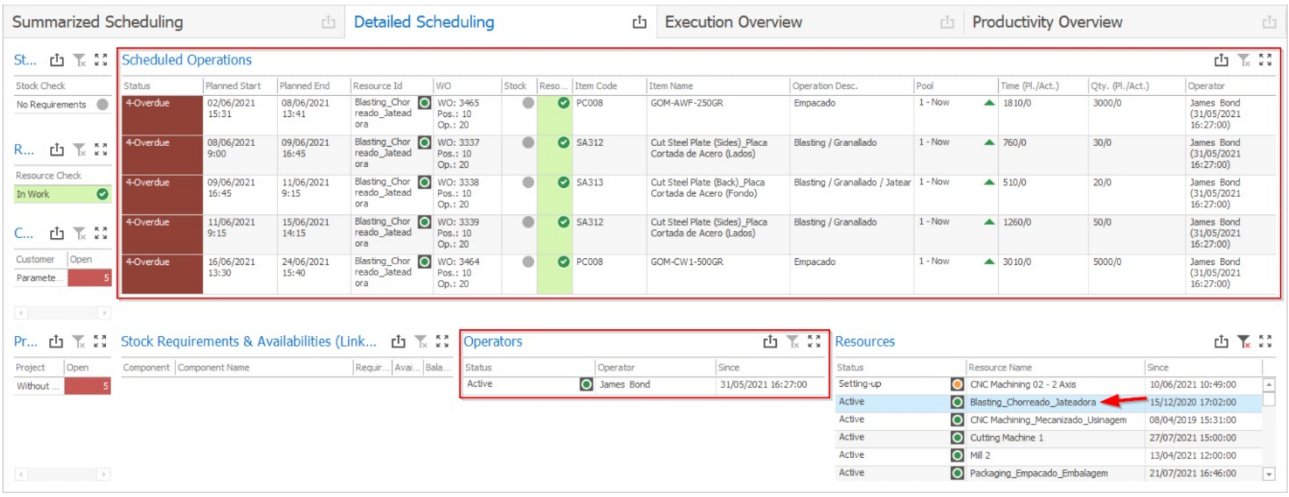
Free: Resource without any active times, interruptions, or production scheduling.

b) **Resource Name:** Description of the resource;

c) **Since**: Date and time that represent since when the resources are on the current status. If the resources have active times, the "Since" column will display the date and time in which the first active production task was logged in by an operator; if they are waiting or free, the "Since" column will display the date and time in which they finished their latest production task. In the cases in which the resources have never worked in production tasks, the "Since" column displays an empty value.

© 2026 Boyum IT Solutions A/S

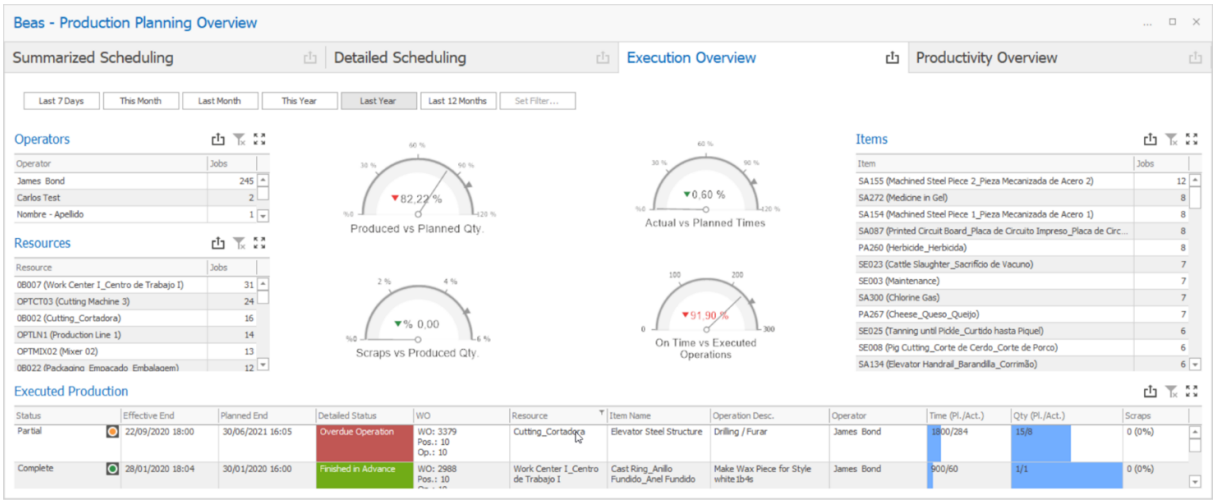
If you wish to know in which routing positions the resources are working, which ones are affected by interruptions, their scheduled tasks, or which operators are currently working on them, you just need to select the desired resource and status and check the results under the Scheduled Operations and Operators grids.



Important: On the Scheduled Operations grid, the routing positions will display the resource that is currently linked to them, not the alternative or parallel resources, while the "Resources" grid, for the "Active" status, shows all currently active resources, even if they are alternative or parallel resources. In situations like these, when you click on a resource from the "Resources" grid that is different from the default resource set to the routing positions, the currently active routing position(s) will not be displayed under the "Scheduled Operations" grid (as the dashboard filters for the exact resource identification). If this happens, you can check the currently active operations for the resource using the Beas function Production Time Administration, inside the Active work order times tab.

© 2026 Boyum IT Solutions A/S

18.5.5.3 Execution Overview Tab



The Execution Overview tab displays a series of KPIs over the executed production that can be easily filtered to calculate the indicators based on operators, resources, or items' performances. Additionally, the Execution Overview tab displays a list of executed routing positions for the selected filters, enabling a detailed performance analysis.

Dashboard sections:

KPIs Area

Operators

Resources

Items

Executed Production

© 2026 Boyum IT Solutions A/S

18.5.5.3.1 KPIs Area

The KPIs area presents four KPIs related to production execution:

a) **Produced vs Planned Qty.**: Comparison between the produced and the planned quantities. Every time that the produced quantities fall below 100% of the planned quantities, a red icon is displayed;

b) **Scraps vs Produced Qty.**: Comparison between the scrapped amount (coming from the scraps registered in the time receipts) and the produces quantities. Every time that the scrapped amount is greater than 5% of the produced quantities, a red icon is displayed;

c) **Actual vs Planned Times**: Comparison between the actual and the planned production times. Every time that the production times are greater than 100% of the planned times, a red icon is displayed;

d) **On Time vs Executed Operations**: Comparison between the routing positions executed before or during the scheduled dates and the total number of executed operations. Every time that the number of on-time operations is below 100%, a red icon is displayed.

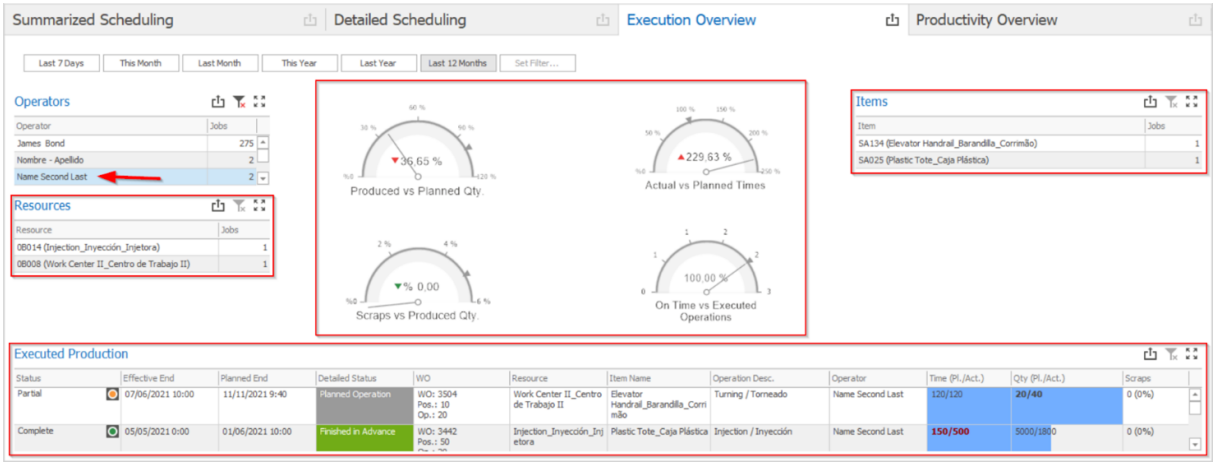
18.5.5.3.2 Operators

Operator	Jobs
James Bond	54
Carlos Test	2
Nombre - Apellido	1
Name Second Last	1

© 2026 Boyum IT Solutions A/S

This grid shows all the operators that have executed production activities and the numbers of jobs (unique routing positions) that they have worked on.

If you wish to see the KPIs for a specific operator, or to know in which resources they have worked on, which items they produced, and which routing positions they completed, you just need to select the desired operator and check the results under the Resources, Items, and Executed Production grids, as well as on the KPIs area.

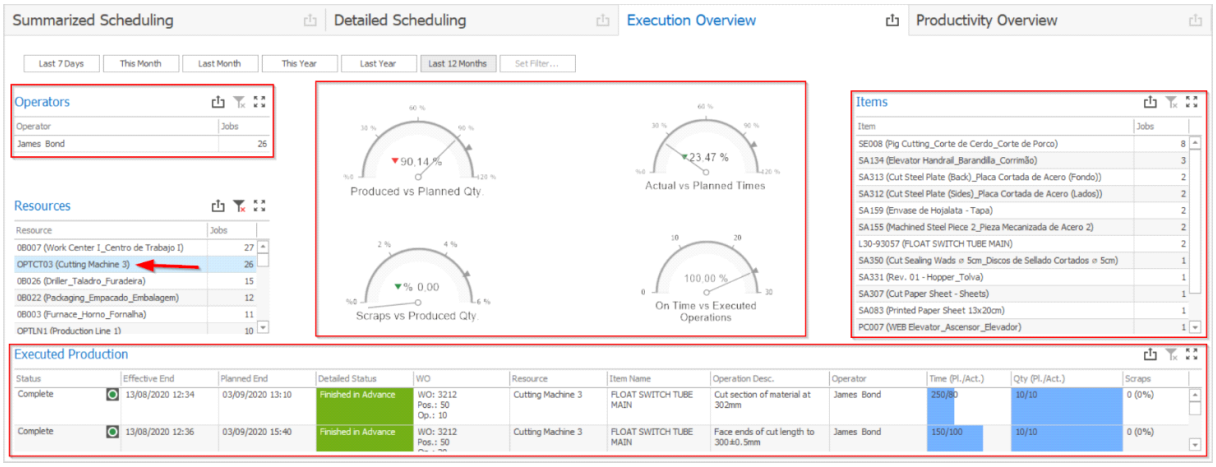


18.5.5.3.3 Resources

This grid shows all the resources that have executed production activities and the numbers of jobs (unique routing positions) that they have worked on.

If you wish to see the KPIs for a specific resource, or to know which operators have worked on them, which items they produced, and which routing positions they completed, you just need to select the desired resource and check the results under the Operators, Items, and Executed Production grids, as well as on the KPIs area.

© 2026 Boyum IT Solutions A/S

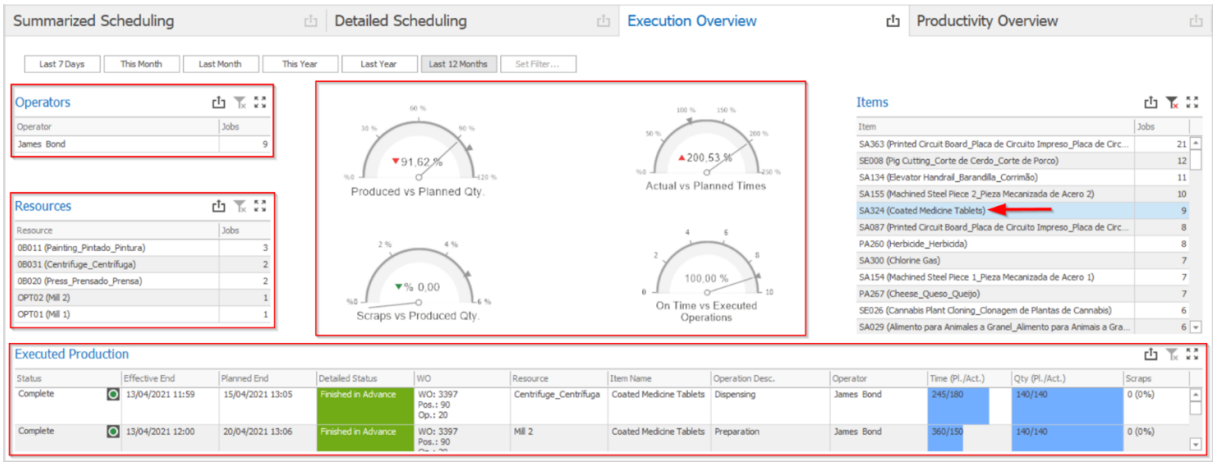


18.5.5.3.4 Items

This grid shows all the manufactured items and the numbers of jobs (unique routing positions) executed for producing them.

If you wish to see the KPIs for a specific item, to know which operators or resources manufactured them, and which routing positions were completed for them, you just need to select the desired item and check the results under the Operators, Resources, and Executed Production grids, as well as on the KPIs area.

© 2026 Boyum IT Solutions A/S



18.5.5.3.5 Executed Production

This grid shows all the executed routing positions for the current set of filters and selections.

a) **Status**: Routing position status, which can be “Partial” or “Complete”:

Partial : Routing position partially executed, but remains open waiting for more time receipts;

Complete : Completed and closed routing position.

b) **Effective End**: Last time receipt’s end date and time for the routing position;

c) **Planned End**: Planned end date and time for the routing position;

d) **Detailed Status**: Specific status to help understanding the situation of each routing position:

Closed routing positions:

Finished on Schedule: Routing position closed during its scheduled dates;

Finished in Advance: Routing position closed before its scheduled dates;

Finished Overdue: Routing position closed after its scheduled dates.

Open routing positions:

Planned Operation: Routing position with end date scheduled for today or for the future;

Overdue Operation: Routing position with end date scheduled for past days.

e) **WO**: Work order number, position number, and routing position number;

f) **Resource**: Description of the resource;

© 2026 Boyum IT Solutions A/S

g) **Item Name**: Description of the item;

h) **Operation Desc**.: Description of the routing position;

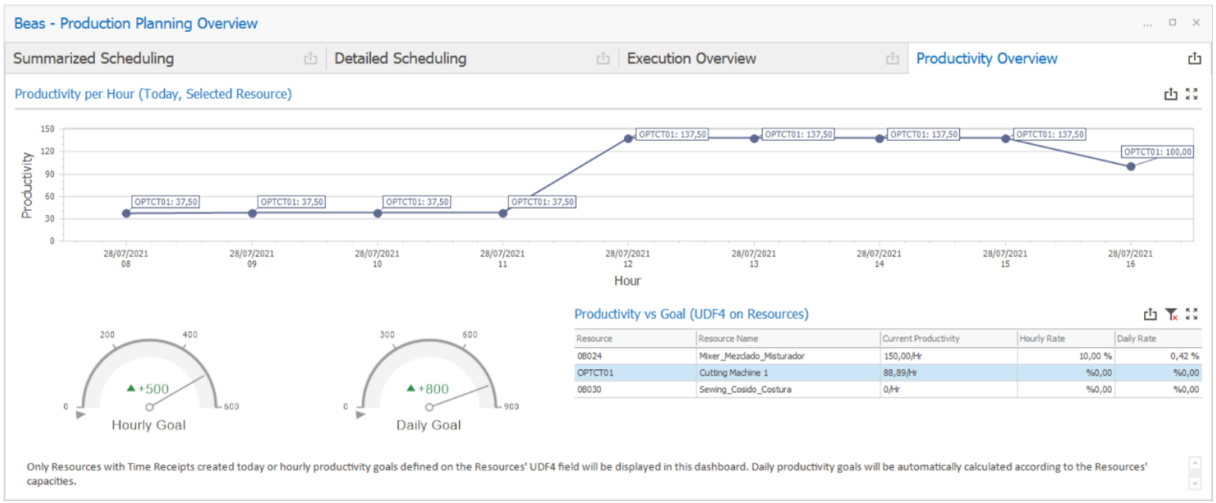
i) **Operator**: Name of the operator that registered time receipts for the routing position. When more than one operator have worked on the same routing position, all of them will appear as individual rows in the "Executed Production" grid;

j) **Time (Pl./Act.)**: Times (planned / actual). A blue progress bar represent how much of the planned times were already reported and, in the cases where actual times surpassed the planned times, the values are highlighted in bold dark red **45/60**;

k) **Qty. (Pl./Act.)**: Quantity (planned / actual). A blue progress bar represent how much of the planned quantities were already produced and, in the cases where actual production surpassed the planned amounts, the values are highlighted in bold dark gray **100/150**;

l) **Scraps**: Amount of scraps registered for the routing position and their representativeness over the produced quantities.

18.5.5.4 Productivity Overview Tab



The Productivity Overview tab shows how the resources' productivity per hour is evolving at each hour of the day, as well as enable you to define productivity goals and track how close or far you are from them.

This tab only presents data from the current day (resources that have worked today) and/or resources who have productivity goals defined for them.

Dashboard sections:

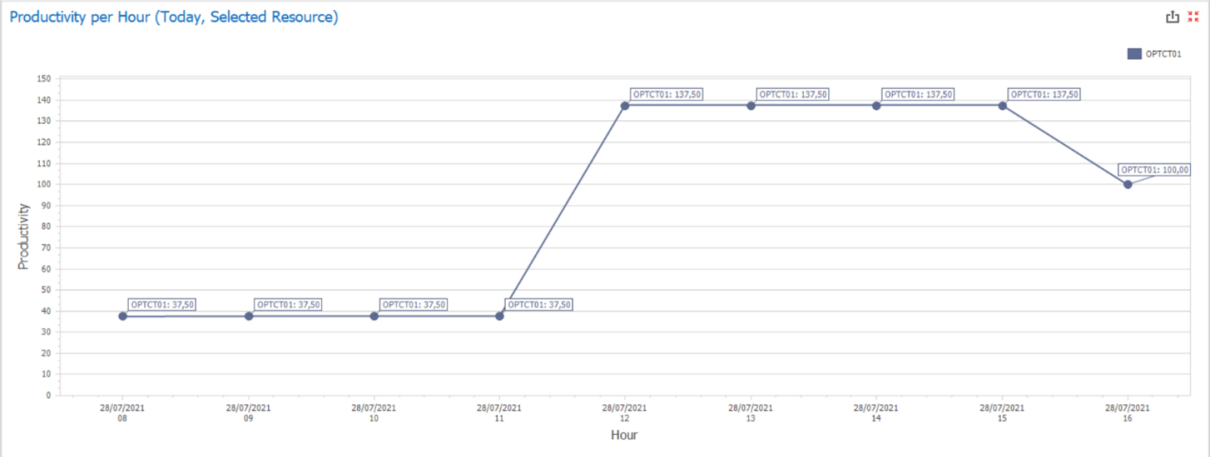
Productivity Per Hour (Today, Selected Resource)

KPIs Area

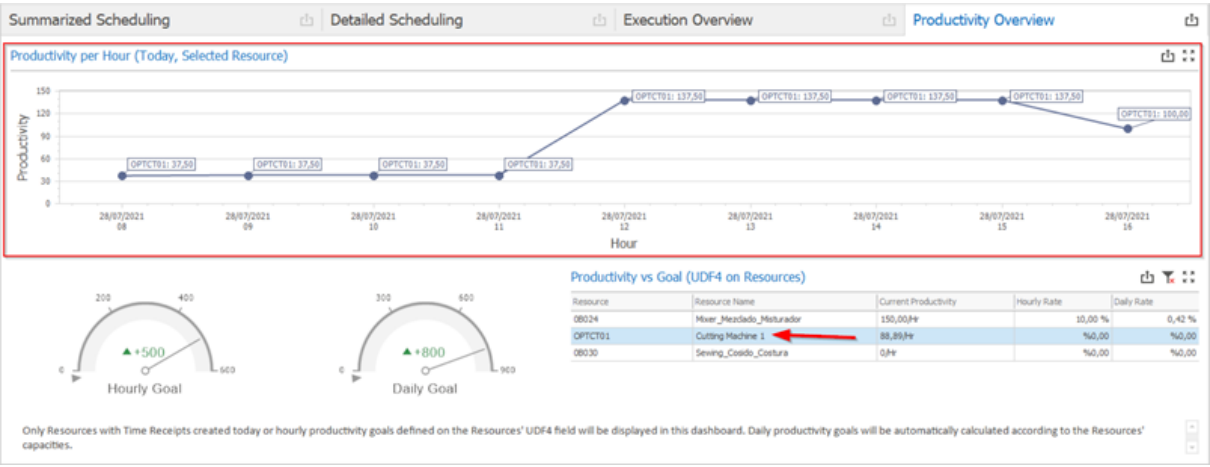
Productivity vs. Goal (UDF on Resources)

© 2026 Boyum IT Solutions A/S

18.5.5.4.1 Productivity Per Hour (Today, Selected Resource)



This chart displays how the productivity is varying for the selected resource at each hour of the day, considering the quantities produced per hour (when the time receipts last for more than one hour, the total quantity is divided by the number of hours and showed across all the hours covered by the time receipt). The resources can be selected from the Productivity vs Goal (UDF4 on Resources) grid.



18.5.5.4.2 KPIs Area

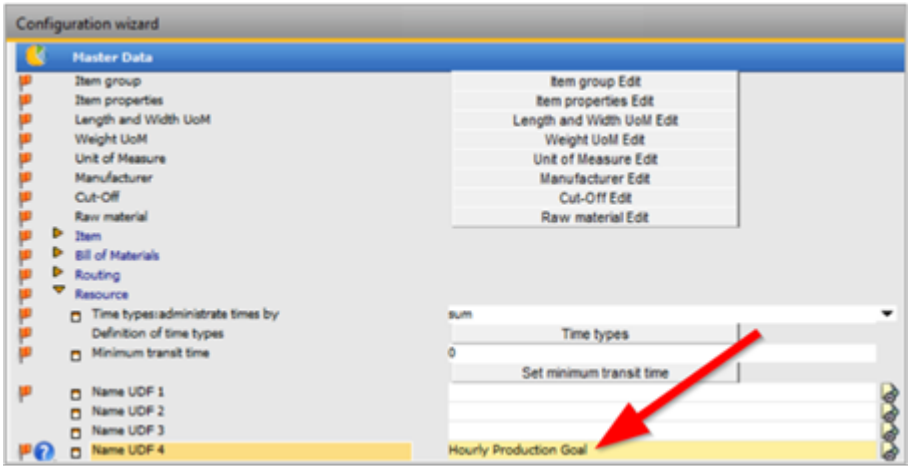
© 2026 Boyum IT Solutions A/S

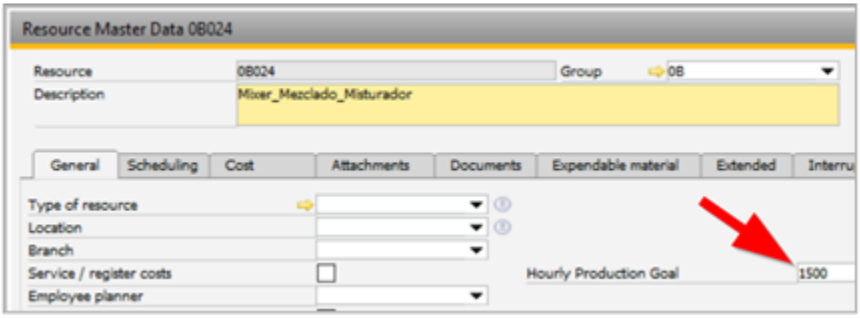
The KPIs area presents two KPIs related to resources' productivities:

a) **Hourly Goal**: Completion of the hourly production goals defined for the resources, retrieving all time receipts that ended in the current hour (this KPI resets every hour). This KPI is shown in absolute values, the corresponding percentages is displayed on the Productivity vs Goal (UDF4 on Resources) grid;

b) **Daily Goal**: Completion of the daily production goals defined for the resources, retrieving all time receipts that ended in the current day (this KPI resets every day). This KPI is shown in absolute values, the corresponding percentages is displayed on the Productivity vs Goal (UDF4 on Resources) grid.

Important: The hourly production goals should be defined in the Resource master data, using the UDF4 (if not enabled, you can enable the UDF4 on the Configuration Wizard). The daily production goals are automatically calculated according to the resources' capacities (for example, if a resource has 8 hours of capacity per day, the goal will be multiplied by 8), considering all planned downtimes and interruptions.





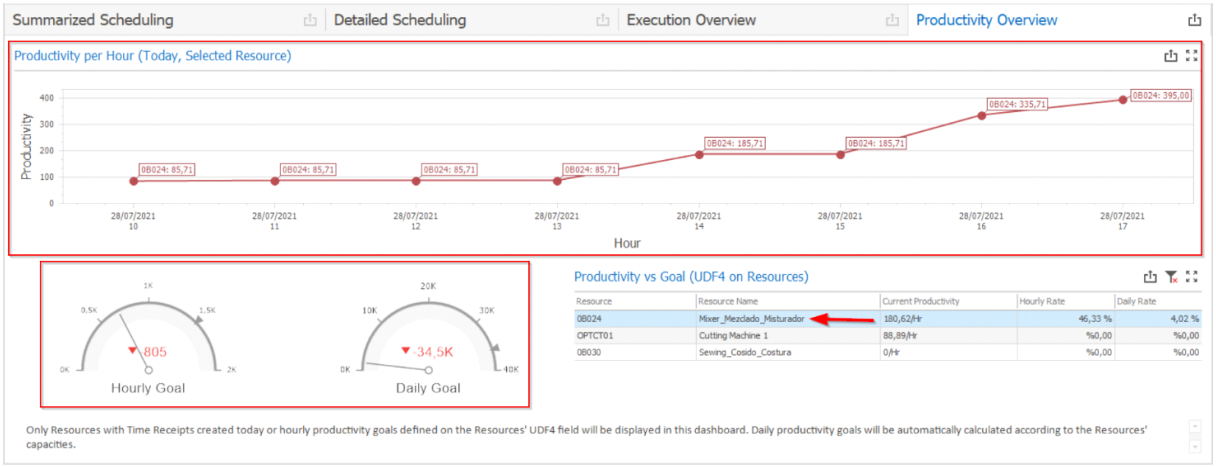
© 2026 Boyum IT Solutions A/S

18.5.5.4.3 Productivity vs. Goal (UDF4 on Resources)

Productivity vs Goal (UDF4 on Resources)

Resource	Resource Name	Current Productivity	Hourly Rate	Daily Rate
0B024	Mixer_Mezclado_Misturador	180,62/Hr	46,33 %	4,02 %
OPTCT01	Cutting Machine 1	88,89/Hr	%0,00	%0,00
0B030	Sewing_Cosido_Costura	0/Hr	%0,00	%0,00

This grid gives you the possibility of tracking the current average productivity per hour and how the productivity goals are being met for each resource, both hourly and daily.
If you with to view the evolution of productivity hour by hour in the day, or to see the absolute values for the resource's hourly and daily production against its goals, you just need to select the desired resource and check the results under the Productivity per Hour (Today, Selected Resource) chart and on the KPIs area.



18.5.6 Capacity Utilization

The Capacity Utilization dashboard contains a series of analytical views to achieve a deep understanding about how the company's production capacity is being utilized and how productive manufacturing resources are, considering different kinds of losses that might affect availability and productivity.

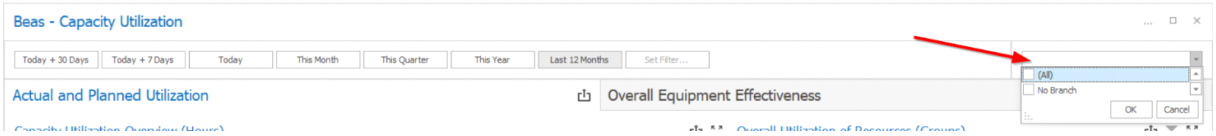
This dashboard contains two tabs:
Actual and Planned Utilization Tab
Overall Equipment Effectiveness (OEE) Tab

The data can be filtered using the pre-made filters for defined time ranges (today + 30 days, today + 7 days, today, this month, this quarter, this year, and last 12 months). Manual filtering can be done

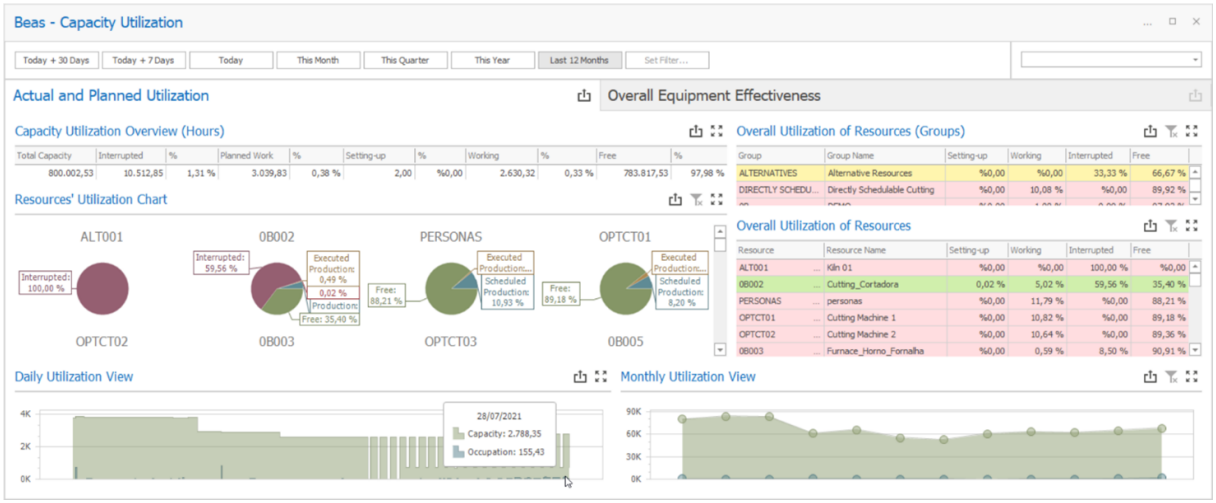
© 2026 Boyum IT Solutions A/S

by clicking on “Set Filter…”. For performance reasons, this dashboard will load data from the current and from the previous year only.

When using this dashboard on multibranch databases, the desired branches can be selected using the filter on the upper right corner of the dashboard. If there is no branch created for the databases, “No Branch” will be the only available option.



18.5.6.1 Actual and Planned Utilization Tab



The Actual and Planned Utilization displays how the company’s capacity is being utilized, either in terms of executed or scheduled production, and times wasted on setups or interruptions. The capacity utilization can be seen in global numbers, per resource group and per resource, as well as per day and per month. Additionally, the Actual and Planned Utilization tab will interact with the Overall Equipment Effectiveness tab, meaning that any filters or selections applied on Actual and Planned Utilization will also filter the data under the Overall Equipment Effectiveness tab.

Dashboard sections:

Capacity Utilization Overview (Hours)

Resources' Utilization Chart

Overall Utilization of Resources (Groups)

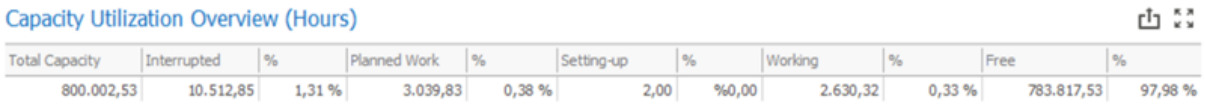
Overall Utilization of Resources

© 2026 Boyum IT Solutions A/S

Daily Utilization View

Monthly Utilization View

18.5.6.1.1 Capacity Utilization Overview (Hours)

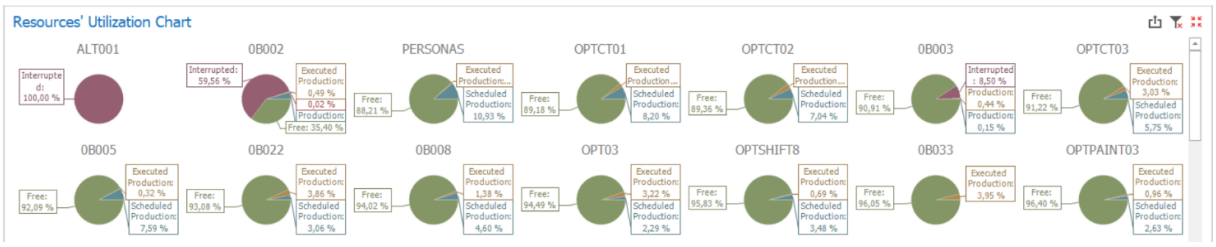


Total Capacity	Interrupted	%	Planned Work	%	Setting-up	%	Working	%	Free	%
800.002,53	10.512,85	1,31 %	3.039,83	0,38 %	2,00	%0,00	2.630,32	0,33 %	783.817,53	97,98 %

This single row report details the usage of the capacity for the selected parameters, combining the time range filter to the chosen resource groups or resources.

a) **Total Capacity**: Total capacity in hours, summing the capacities from all the resources;
b) **Interrupted**: Total interruption hours registered for the resources. Interruptions can come from planned downtimes, like preventive maintenances, or unplanned downtimes, like broken machines. When an interruption is created without a planned end date, it might affect the resource's capacity for a long period until it is ended; therefore, whenever the planned end date could be estimated, it is recommended to update the interruptions with the corresponding planned end dates;
c) **Planned Work**: Total scheduled (and not executed) work hours for the resources (if the time range is in the past, having values on "Planned Work" means that there are open and overdue work orders with planned dates for the past);
d) **Setting-up**: Total setup times registered for the resources (time receipts created for the "Setup" time type; if the "Setup" time type is not enabled for the resources, all times are registered and considered as production times);
e) **Working**: Total work hours registered for the resources (time receipts created for all time types that are not "Setup"; if not using more than one time type, all times are considered as production times);
f) **Free**: Remaining capacity after discounting interruptions, scheduled work, setup times, and work times.

18.5.6.1.2 Resources' Utilization Chart



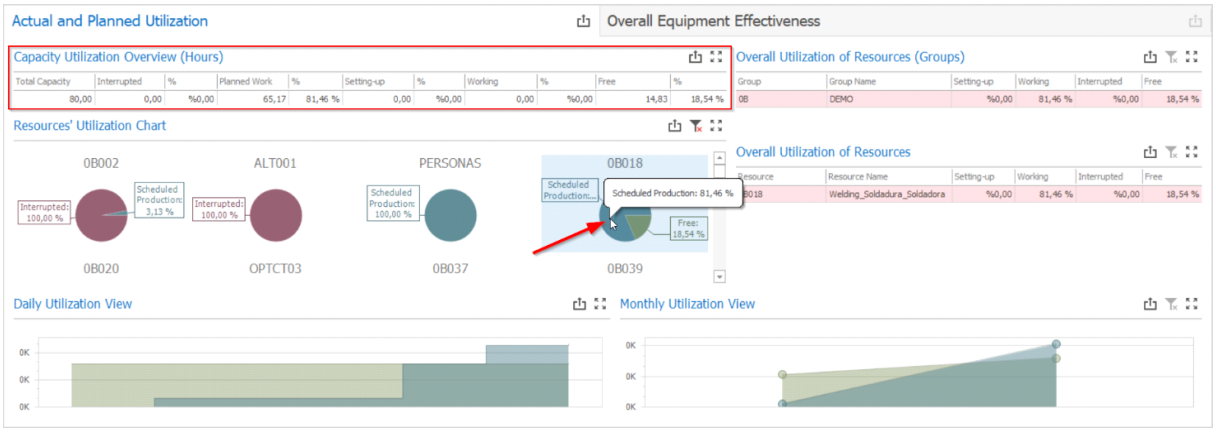
This pie chart shows how the capacities from each resource are used, slicing them into four parts (see detailed explanations under " Capacity Usage Overview (Hours)"):

© 2026 Boyum IT Solutions A/S

a) **Interrupted**: Total interruption hours registered for the resource;
b) **Scheduled Production**: Total scheduled (and not executed) work hours for the resource;
c) **Setting Up**: Total setup times registered for the resource;
d) **Executed Production**: Total work hours registered for the resource;
e) **Free**: Remaining capacity after discounting interruptions, scheduled work, setup times, and work times.

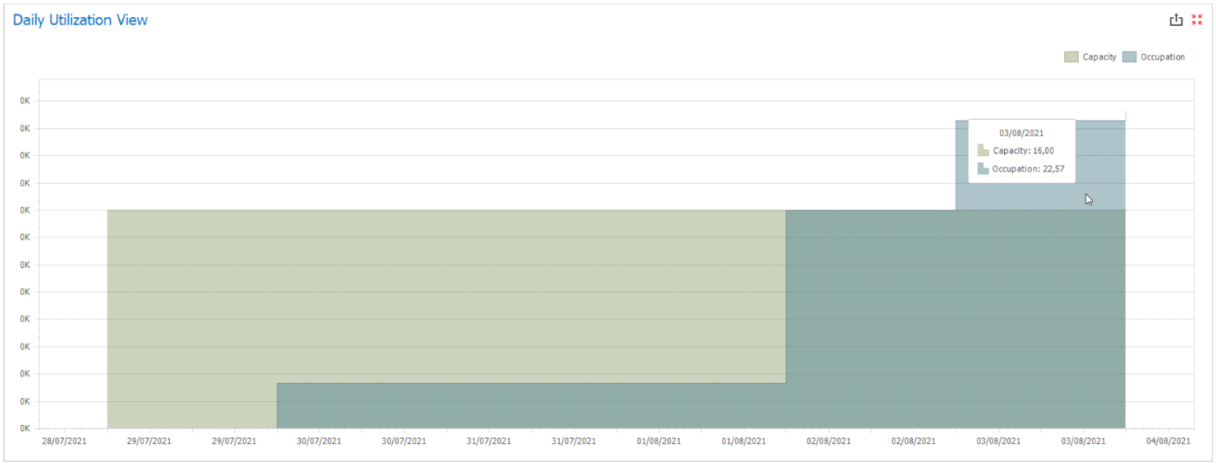
The resources are displayed according to the applied filter. For example, if you wish to check how all the resources will be occupied in the next seven days, you just need to select “Next 7 Days” on the time range filters. Then, if you wish to filter further for specific resource groups or resources, you can select them on the corresponding charts. The same can be done for filtering specific months, using the “Capacity Usage Overview” chart.,

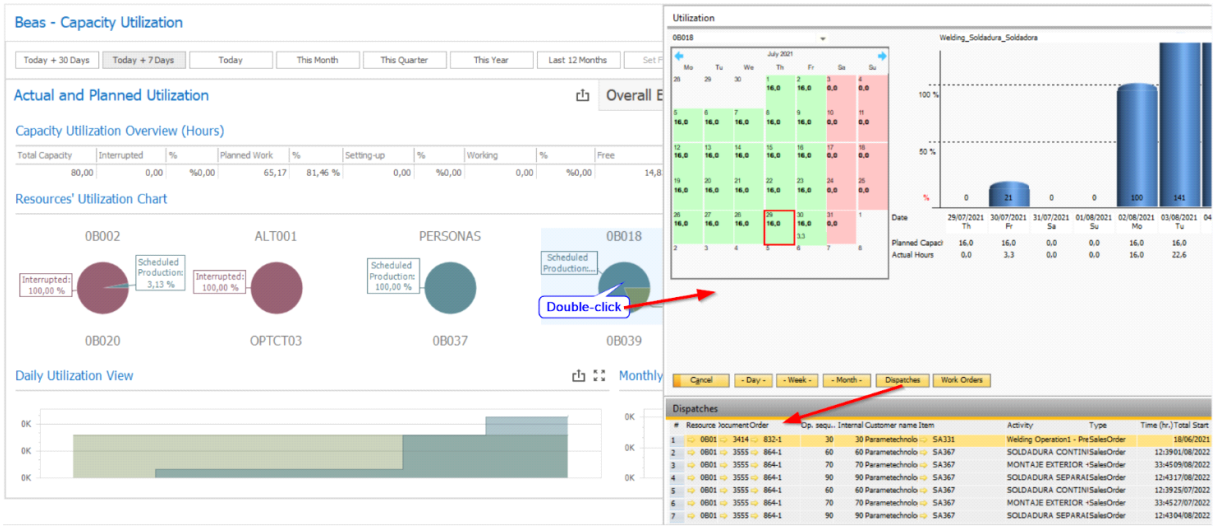
The resources are displayed according to the applied filters. For example, if you wish to check how all the resources will be occupied in the next seven days, you just need to select “Today + 7 Days” on the time range filters. In the Resources’ Utilization chart, the utilizations are always represented in percentual values; to know the absolute values corresponding to the percentages of a specific resource, you just need to select the desired resource and check the results on the “Capacity Utilization Overview (Hours)” grid.



Then, if you wish to understand how the utilization evolves on each day of the week or of the month, you can either check the Daily Utilization View chart, or double-click the resource to trigger a B1UP Universal Function embedded into the dashboard for automatically opening the Beas Graphic Display Utilization function. If you wish to activate this feature, which also allows you to navigate into the resources’ dispatches and view the scheduled work orders, you must download the UF and import it into B1UP. **DOWNLOAD:** Right-click on the link DASH-CAP-CAPACITY and Save the xml file.

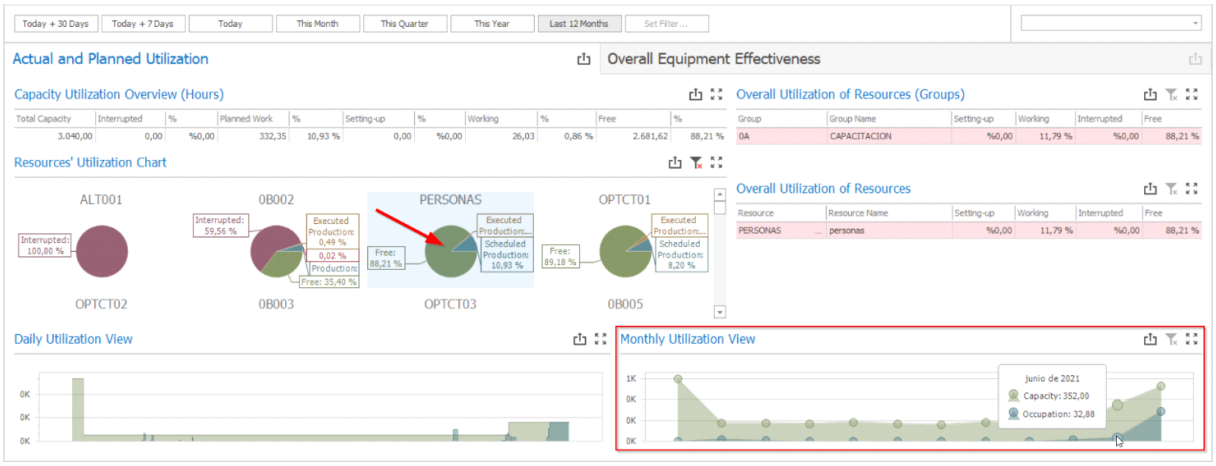
© 2026 Boyum IT Solutions A/S





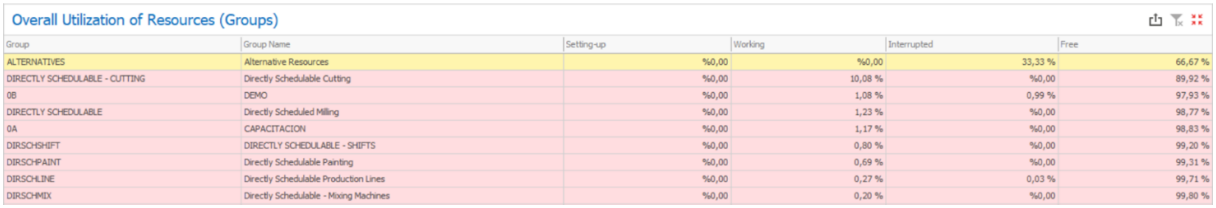
When choosing a time range that covers several months, it is also possible to understand how the capacity of a single resource was used across the different months by clicking on the resource and checking the results under the “Monthly Utilization View” chart.

© 2026 Boyum IT Solutions A/S



Important: For both "Daily Utilization View" and "Monthly Utilization View" charts, occupation will be expressed in terms of the executed and scheduled production. Interruptions and setup times will not be part of the occupation calculation.

18.5.6.1.3 Overall Utilization of Resources (Groups)



This report details how the capacities of the entire resource groups are used, revealing the following information:

a) **Setting-Up:** Total setup times registered for the resources;
b) **Working:** Total scheduled and executed work times registered for the resources;
c) **Interrupted:** Total interruption hours registered for the resources;
d) **Free:** Remaining capacity after discounting interruptions, scheduled work, setup times, and work times.

By default, three colors can be applied to the report rows. The colors can be customized by editing the dashboard and defining new color rules.

Red: Free capacity greater than 80%, or less than 20%;

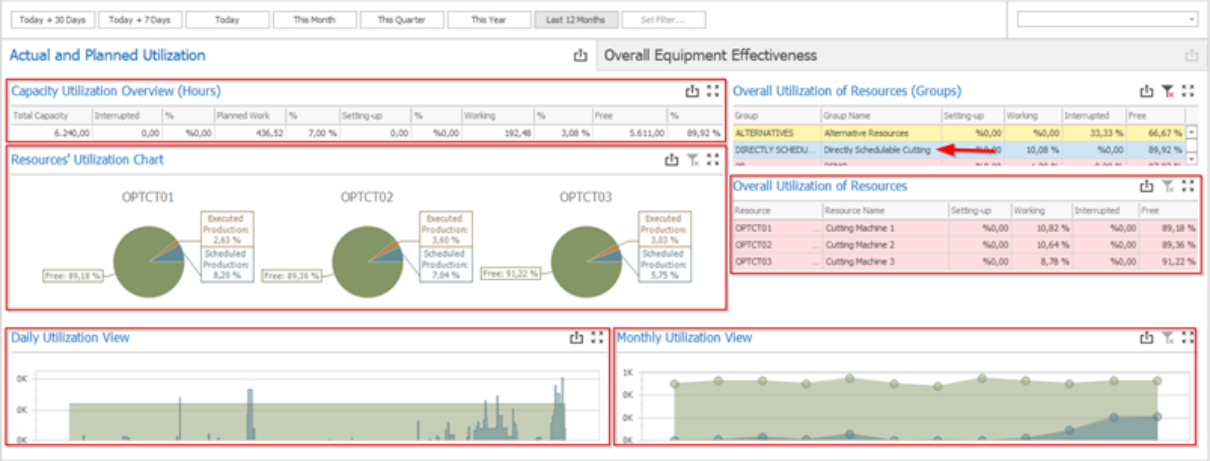
Yellow: Free capacity between 40% and 80%;

Green: Free capacity between 20% and 40%;

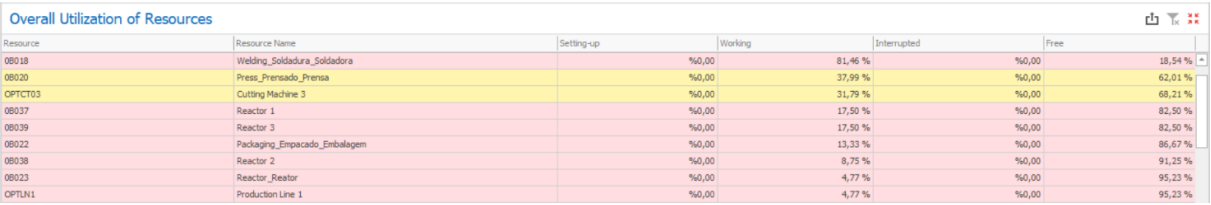
Any resource group can be selected for further insights on how the capacities are or were used (triggering filters on the other reports and charts from the dashboard). If you wish to check how the

© 2026 Boyum IT Solutions A/S

capacities of a single resource group were used, you can just click on the desired resource group and check the results under the Capacity Utilization Overview (Hours), the Resources' Utilization Chart, the Daily Utilization View, the Monthly Utilization View, and Overall Utilization of Resources sections.



18.5.6.1.4 Overall Utilization of Resources



This report details how the capacities of the resources are used, revealing the following information:

a) **Setting-Up**: Total setup times registered for the resource;
b) **Working:** Total scheduled and executed work times registered for the resource;
c) **Interrupted:** Total interruption hours registered for the resource;
d) **Free**: Remaining capacity after discounting interruptions, scheduled work, setup times, and work times.

By default, three colors can be applied to the report rows. The colors can be customized by editing the dashboard and defining new color rules.

Red: Free capacity greater than 80%, or less than 20%;

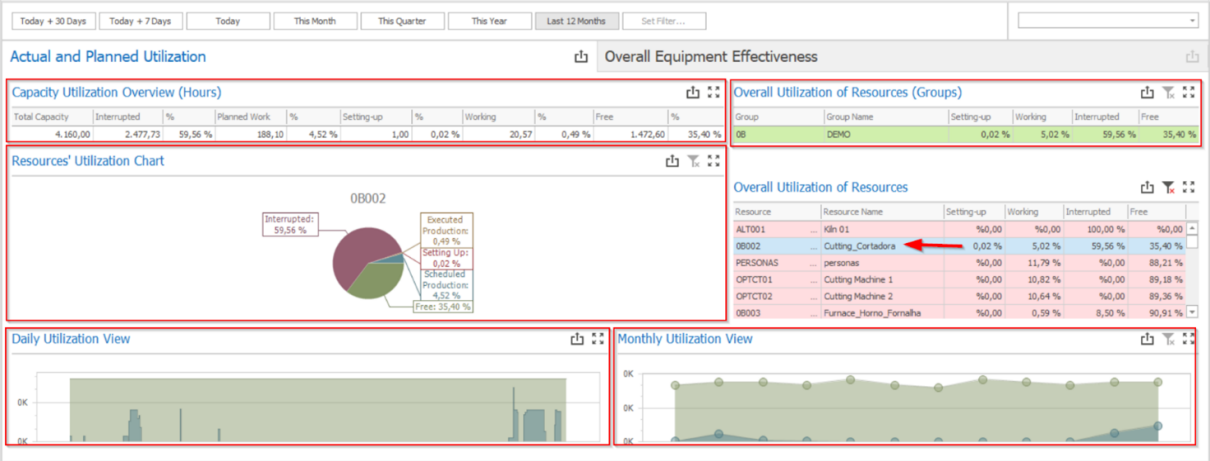
Yellow: Free capacity between 40% and 80%;

Green: Free capacity between 20% and 40%;

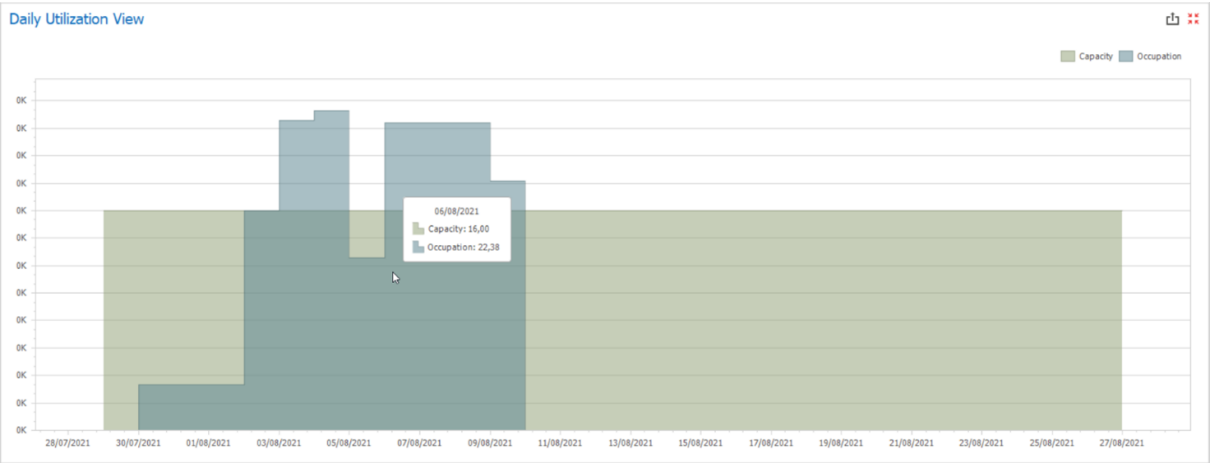
Any resource can be selected for further insights on how its capacity is or was used (triggering filters on the other reports and charts from the dashboard). If you wish to check how the capacities of a

© 2026 Boyum IT Solutions A/S

single resource were used, you can just click on the desired resource and check the results under the Capacity Utilization Overview (Hours), the Resources' Utilization Chart (Groups), the Daily Utilization View, the Monthly Utilization View, and the Overall Utilization of Resources (Groups) sections.



18.5.6.1.5 Daily Utilization View

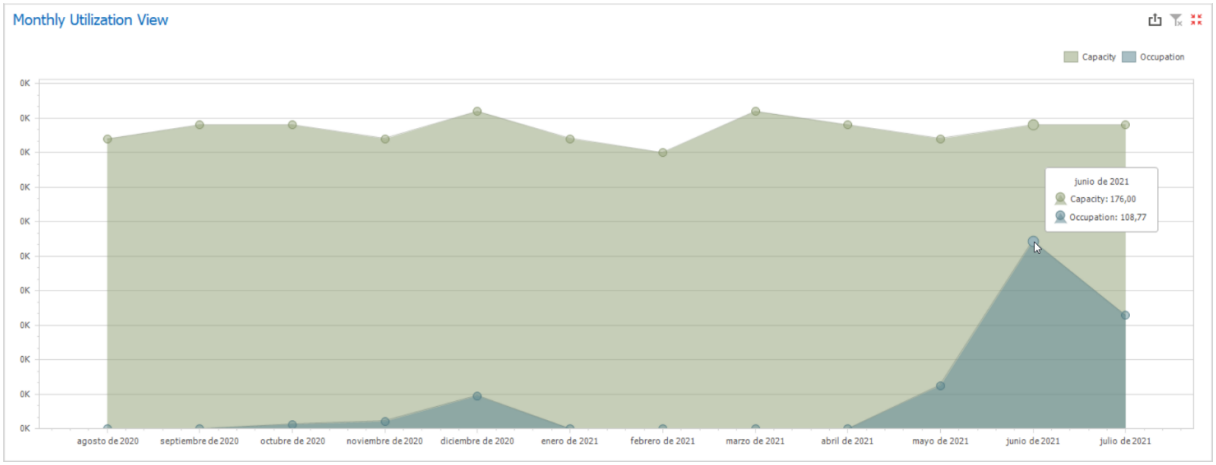


This chart combines two information in a single area with different colors, displaying the resources' capacities and occupations for each day (occupation = scheduled work + executed work, setups and interruptions are not considered as occupation). The Daily Utilization View will always present a summarized analysis for the selected filters, giving you the possibility to view capacity and occupation across the entire factory, for entire resource groups, or for single resources.

Important: All days with zero capacity are ignored, to improve the chart's visualization and the dashboard's performance.

© 2026 Boyum IT Solutions A/S

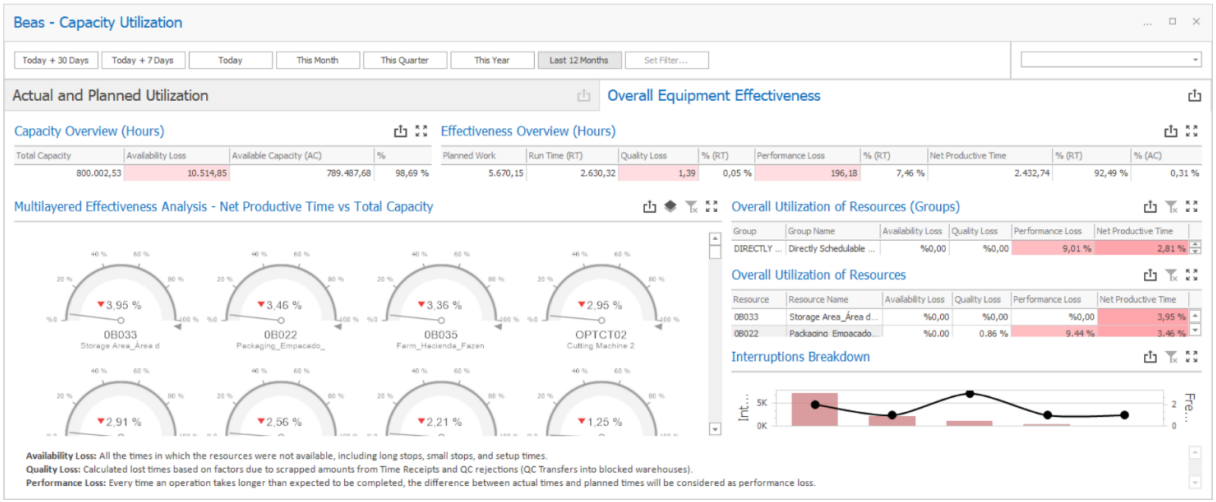
18.5.6.1.6 Monthly Utilization View



This chart combines two information in a single area with different colors, displaying the resources' capacities and occupations for each month (occupation = scheduled work + executed work, setups and interruptions are not considered as occupation). The Monthly Utilization View will always present a summarized analysis for the selected filters, giving you the possibility to view capacity and occupation across the entire factory, for entire resource groups, or for single resources.

Any month can be selected for further insights on how the capacities are or were used, triggering filters on the other grids and charts from the dashboard.

18.5.6.2 Overall Equipment Effectiveness (OEE) Tab



The Overall Equipment Effectiveness, or OEE, is a gold standard KPI for measuring manufacturing productivity, clearly indicating how effective the different resources are. The calculation of the OEE considers three losses to calculate effectiveness:

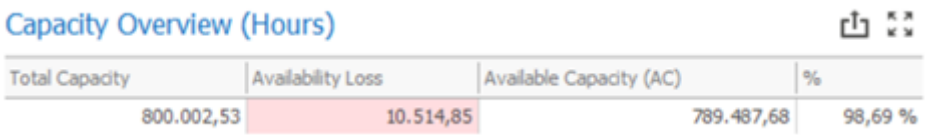
a) **Availability Loss**: All the times in which the resources were not available, including long stops, small stops, and setup times. The availability loss is used to calculate the Available Capacity (AC), by discounting it from the Total Capacity;
b) **Quality Loss**: Calculated lost times based on factors due to scrapped amounts from Time Receipts and QC rejections (QC Transfers into blocked warehouses). The quality loss is used, in combination to the performance loss, to calculate the Net Productive Time, by discounting it from the Run Time (RT);
c) **Performance Loss**: Every time an operation takes longer than expected to be completed, the difference between actual times and planned times will be considered as performance loss. The performance loss is used, in combination to the quality loss, to calculate the Net Productive Time, by discounting it from the Run Time (RT).

The Overall Equipment Effectiveness tab will interact with the Actual and Planned Utilization tab, meaning that any filters or selections applied on Overall Equipment Effectiveness will also filter the data under Actual and Planned Utilization tab.

Dashboard sections:

Capacity Overview (Hours)
Effectiveness Overview (Hours)
Multi-layered Effectiveness Analysis
Overall Utilization of Resources (Groups)
Overall Utilization of Resources
Interruptions Breakdown

18.5.6.2.1 Capacity Overview (Hours)



This single row report details the usage of the capacity for the selected parameters, combining the time range filter to the chosen resource groups or resources.

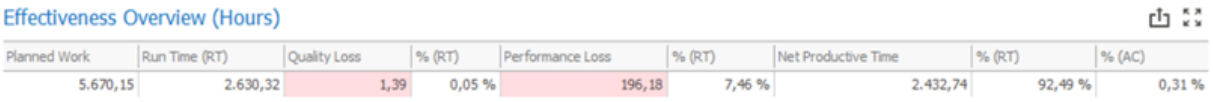
a) **Total Capacity**: Total capacity in hours, summing the capacities from all the resources;
b) **Availability Loss**: All the times in which the resources were not available, including long stops, small stops, and setup times;

© 2026 Boyum IT Solutions A/S

c) **Available Capacity (AC):** Calculated availability after discounting non-available times (due to availability loss) from the total capacity;

d) **%:** Available Capacity (AC) divided by Total Capacity, resulting in how much of the capacity was lost due to planned or unplanned stops.

18.5.6.2.2 Effectiveness Overview (Hours)



Planned Work	Run Time (RT)	Quality Loss	% (RT)	Performance Loss	% (RT)	Net Productive Time	% (RT)	% (AC)
5.670,15	2.630,32	1,39	0,05 %	196,18	7,46 %	2.432,74	92,49 %	0,31 %

This single row report details the factory's effectiveness for the selected parameters, combining the time range filter to the chosen resource groups or resources.

a) **Planned Work**: Sum of the total scheduled and executed production times for the resources;

b) **Run Time (RT)**: Total executed production times for the resources, not considering setup times;

c) **Quality Loss**: Calculated lost times based on factors due to scrapped amounts from Time Receipts and QC rejections (QC Transfers into blocked warehouses);

d) **% (RT):** Quality Loss divided by Run Time (RT), resulting in how much of the run time was lost due to bad quality;

e) **Performance L**oss: Every time an operation takes longer than expected to be completed, the difference between actual times and planned times will be considered as performance loss (**important**: only underperformance affects the "Performance Loss" calculation; overperformance will not be discounted from "Performance Loss");

f) **% (RT)**: Performance Loss divided by Run Time (RT), resulting in how much of the run time was lost due to underperformance;

g) **Net Productive Ti**me: Run Time discounted from Quality Loss and Performance Loss, discounting in the real productive time for the entire company or selected parameters and filters;

h) **% (RT**): Net Productive Time divided by Run Time (RT), resulting in how effective the executed production times after were discounting the losses;

i) **% (AC)**: Net Productive Time divided by Available Capacity (AC), resulting in the OEE calculation for the entire company or selected parameters and filters.

18.5.6.2.3 Multilayered Effectiveness Analysis

This gauge chart provides three layers for understanding the resources' effectiveness, which are:

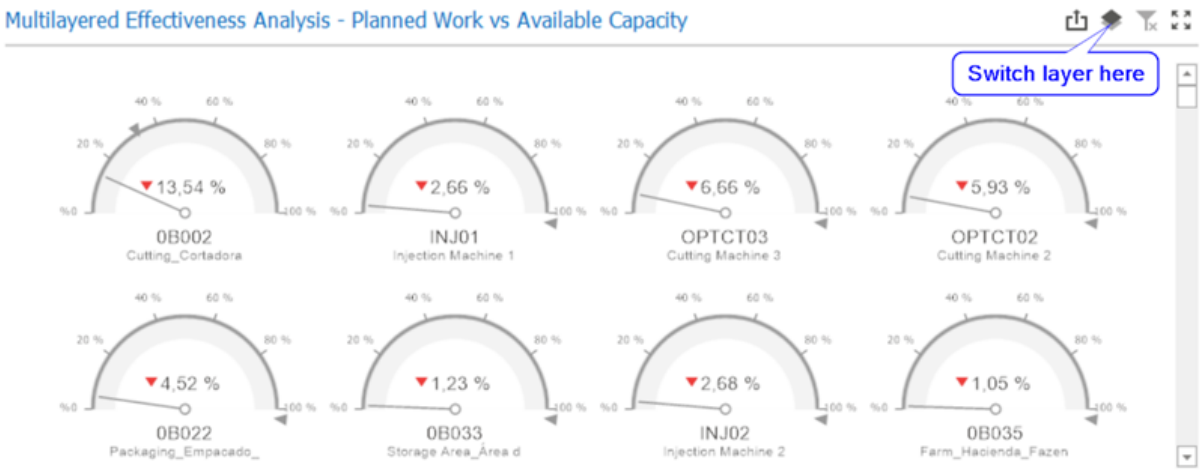
a) **Net Productive Time vs Total Capacity**: Net Productive Time divided by Total Capacity, without discounting availability losses (this is not the OEE calculation). This layer represents how effective the factory would be if there were no downtimes or setup times in production. A red icon is displayed every time that the Net Productive Time is lower than 70% of the Total Capacity;

© 2026 Boyum IT Solutions A/S

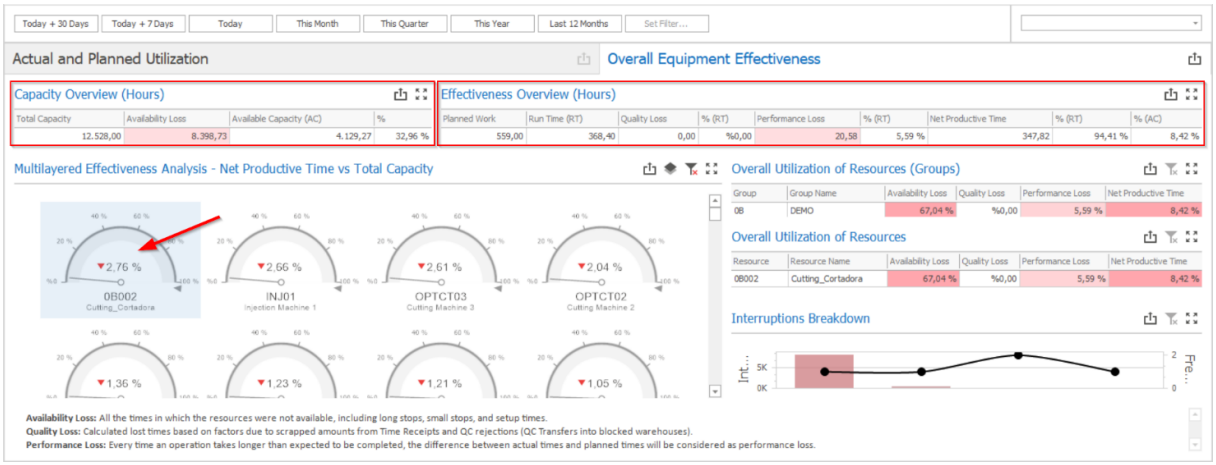
b) **Net Productive Time vs Available Capacity**: Net Productive Time divided by Available Capacity (AC), resulting in the OEE calculation for each resource. A red icon is displayed every time that the Net Productive Time is lower than 70% of the Available Capacity;

c) **Planned Work vs Available Capacity**: Planned Work (scheduled production plus executed production) divided by Available Capacity, without discounting quality and performance losses (this is **not** the OEE calculation). This layer represents how effective the factory would be if there were no losses related to how the production is being executed A red icon will be displayed every time that the Planned Work is lower than 70% of the Available Capacity.

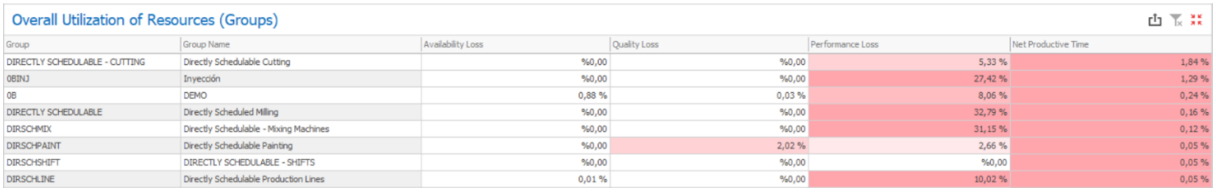
© 2026 Boyum IT Solutions A/S



In the Multilayered Effectiveness Analysis chart, the calculations is always represented in percentual values; to know the absolute values corresponding to the percentages of a specific resource, you just need to select the desired resource and check the results on the Capacity Overview (Hours) and the Effectiveness Overview (Hours) grids.



18.5.6.2.4 Overall Utilization of Resources (Groups)



Group	Group Name	Availability Loss	Quality Loss	Performance Loss	Net Productive Time
DIRECTLY SCHEDULABLE - CUTTING	Directly Schedulable Cutting	%0,00	%0,00	5,33 %	1,84 %
0BINJ	Inyección	%0,00	%0,00	27,42 %	1,29 %
0B	DEMO	0,88 %	0,03 %	8,06 %	0,24 %
DIRECTLY SCHEDULABLE	Directly Scheduled Milling	%0,00	%0,00	32,79 %	0,16 %
DIRSCHMIX	Directly Schedulable - Mixing Machines	%0,00	%0,00	31,15 %	0,12 %
DIRSCHPAINT	Directly Schedulable Painting	%0,00	2,02 %	2,66 %	0,05 %
DIRSCHSHIFT	DIRECTLY SCHEDULABLE - SHIFTS	%0,00	%0,00	%0,00	0,05 %
DIRSCHLINE	Directly Schedulable Production Lines	0,01 %	%0,00	10,02 %	0,05 %

This report details how effective are the different resource groups, revealing the following information:

© 2026 Boyum IT Solutions A/S

a) **Availability Loss**: Available Capacity (AC) divided by Total Capacity, resulting in how much of the capacity was lost due to planned or unplanned stops. This column is colored in a red scale to represent how large the availability losses were:

100.00 %	>=	25,00 %
25,00 %	>=	20,00 %
20,00 %	>=	10,00 %
10,00 %	>=	5,00 %
5,00 %	>=	0,00 %

b) **Quality Loss**: Quality Loss divided by Run Time (RT), resulting in how much of the run time was lost due to bad quality. This column is colored in a red scale to represent how large the quality losses were:

100.00 %	>=	4,00 %
4,00 %	>=	3,00 %
3,00 %	>=	2,00 %
2,00 %	>=	1,00 %
1,00 %	>=	0,00 %

c) **Performance Loss**: Performance Loss divided by Run Time (RT), resulting in how much of the run time was lost due to underperformance. This column is colored in a red scale to represent how large the performance losses were:

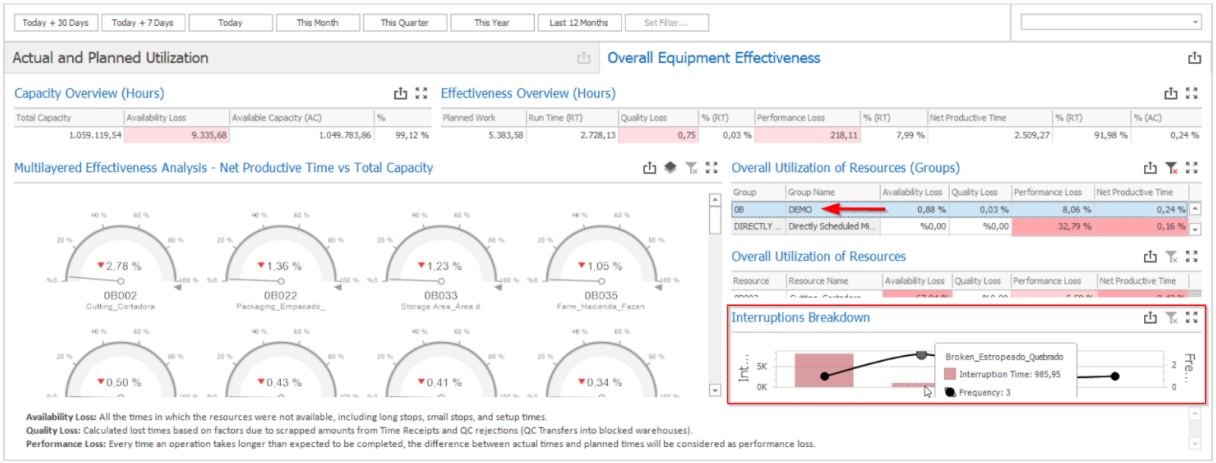
100.00 %	>=	10,00 %
10,00 %	>=	7,00 %
7,00 %	>=	5,00 %
5,00 %	>=	2,00 %
2,00 %	>=	0,00 %

d) **Net Productive Time**: Net Productive Time divided by Available Capacity (AC), resulting in the OEE calculation for the resource group. This column is colored in a green and red scale to represent how efficient the resources were:

100.00 %	>=	70,00 %
70,00 %	>=	60,00 %
60,00 %	>=	50,00 %
50,00 %	>=	40,00 %
40,00 %	>=	0,00 %

© 2026 Boyum IT Solutions A/S

Any resource group can be selected for further insights on how efficient their resources are (triggering filters on the other grids and charts from the dashboard). If you wish to check which interruptions affected the resources within a specific group and how much time was lost for each one of them, you can just click on the desired resource group and check the results under the "Interruptions Breakdown" grid.



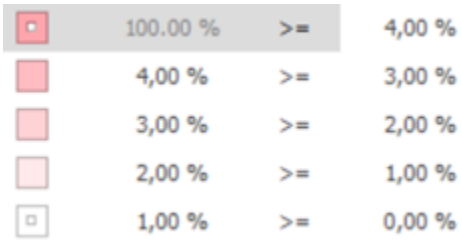
18.5.6.2.5 Overall Utilization of Resources

This report details the efficiency of the different resources, revealing the following information:

a) **Availability Loss**: Available Capacity (AC) divided by Total Capacity, resulting in how much of the capacity was lost due to planned or unplanned stops. This column is colored in a red scale to represent how large the availability losses were:

b) **Quality Loss**: Quality Loss divided by Run Time (RT), resulting in how much of the run time was lost due to bad quality. This column is colored in a red scale to represent how large the quality losses were:

© 2026 Boyum IT Solutions A/S

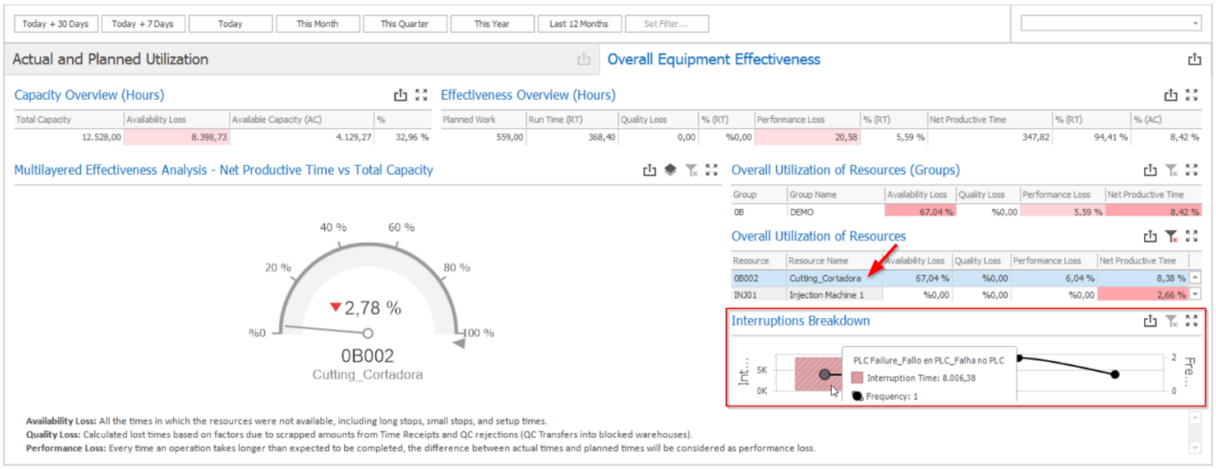


c) **Performance Loss**: Performance Loss divided by Run Time (RT), resulting in how much of the run time was lost due to underperformance. This column is colored in a red scale to represent how large the performance losses were:

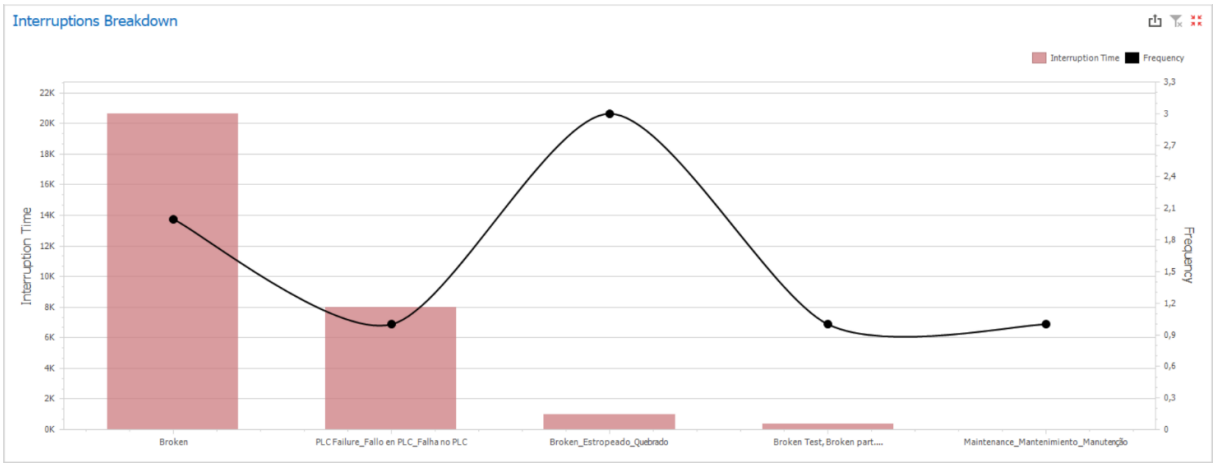
d) **Net Productive Time**: Net Productive Time divided by Available Capacity (AC), resulting in the OEE calculation for the resource group. This column is colored in a green and red scale to represent how efficient the resources were:

Any resource can be selected for further insights on how efficient they are (triggering filters on the other grids and charts from the dashboard). If you wish to check which interruptions affected a specific resource and how much time was lost for each one of them, you can just click on the desired resource and check the results under the Interruptions Breakdown grid.

© 2026 Boyum IT Solutions A/S



18.5.6.2.6 Interruptions Breakdown

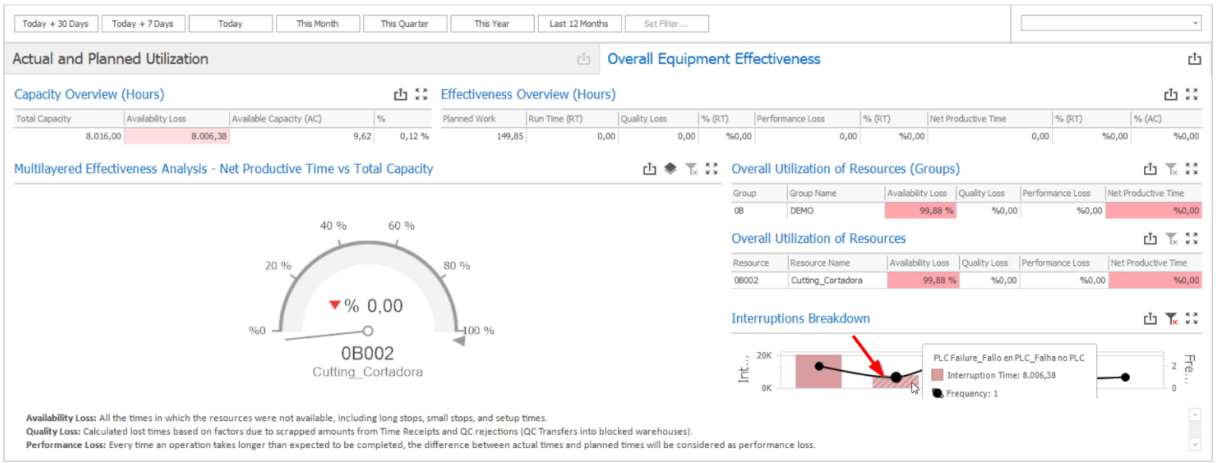


This chart combines two information in a single view: times lost for each interruption reason (red bars) and the frequency of each interruption reason (black line).

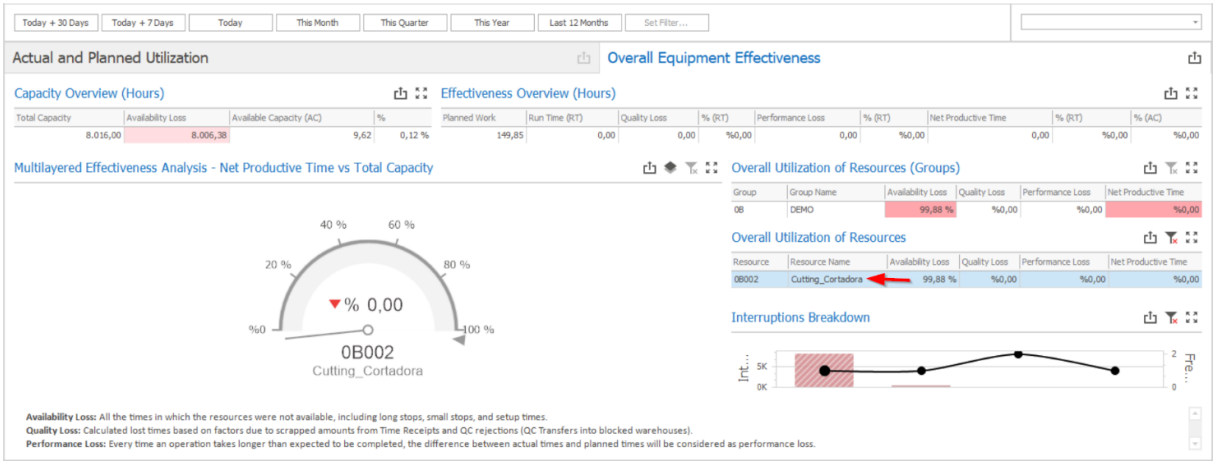
Important: It is possible to click on a specific interruption reason to check which resources were affected by that particular interruption. However, clicking on an interruption reason will make the dashboard to filter only for interruption transactions, making the KPIs to show incorrect values, as production transactions will not be correctly calculated. If you wish to understand which resources were affected by certain interruptions and what are their corresponding OEEs, you should:

1) Click on the interruption reason to filter the resources:

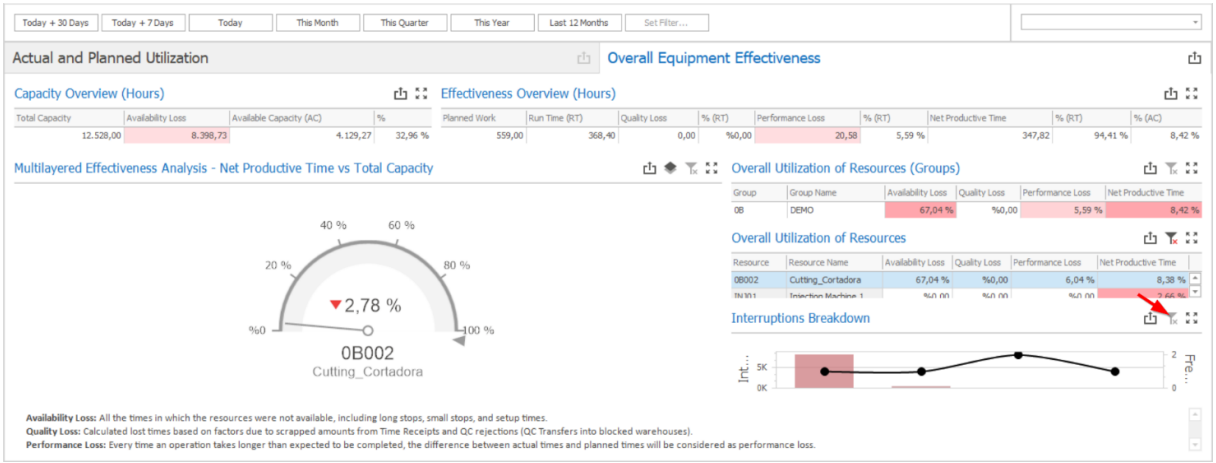
© 2026 Boyum IT Solutions A/S



2) Select the resource groups or resources using the “Overall Utilization of Resources (Groups)” or “Overall Utilization of Resources” grids:



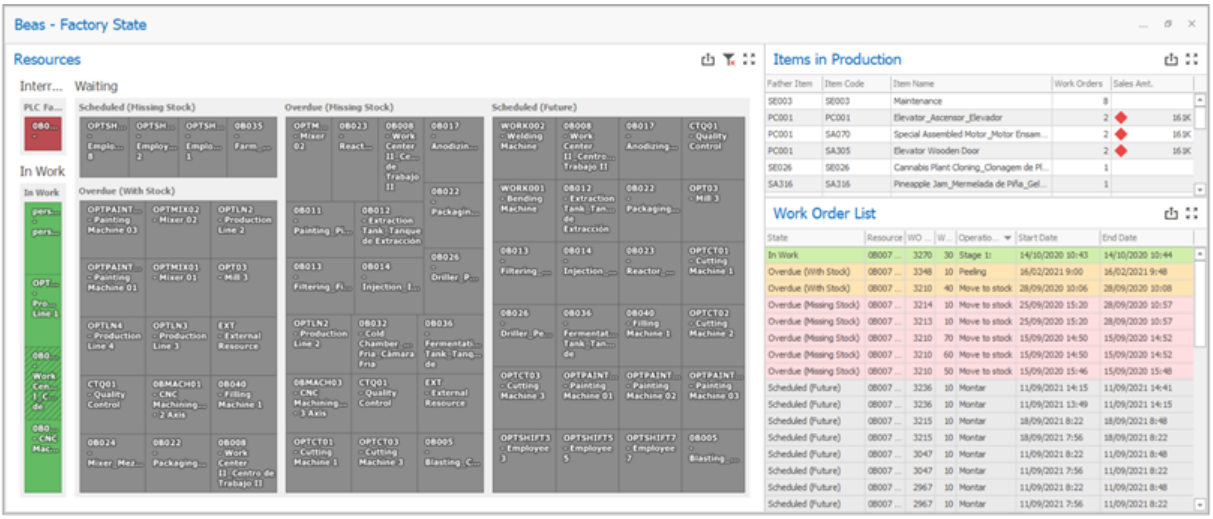
3) Clear the interruptions filter:



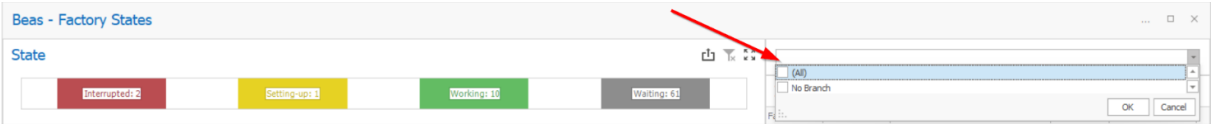
© 2026 Boyum IT Solutions A/S

18.5.7 Factory States

The Factory States dashboard lets you understand how your factory is running in glance. Since this dashboard works with the current data, there is no possible filtering.



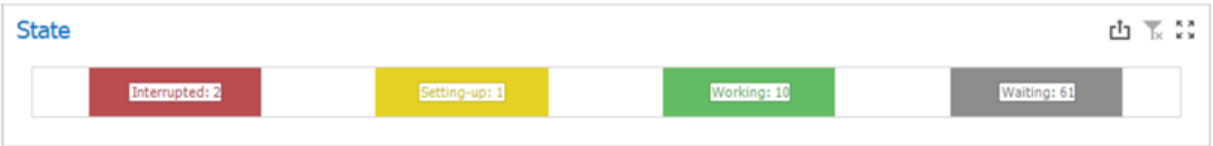
When using this dashboard on multibranch databases, the desired branches can be selected using the filter on the upper right corner of the dashboard. If there is no branch created for the databases, “No Branch” is the only available option.



Dashboard sections:

State
Resources
Items in Production
Work Order List
Free Resources

18.5.7.1 State

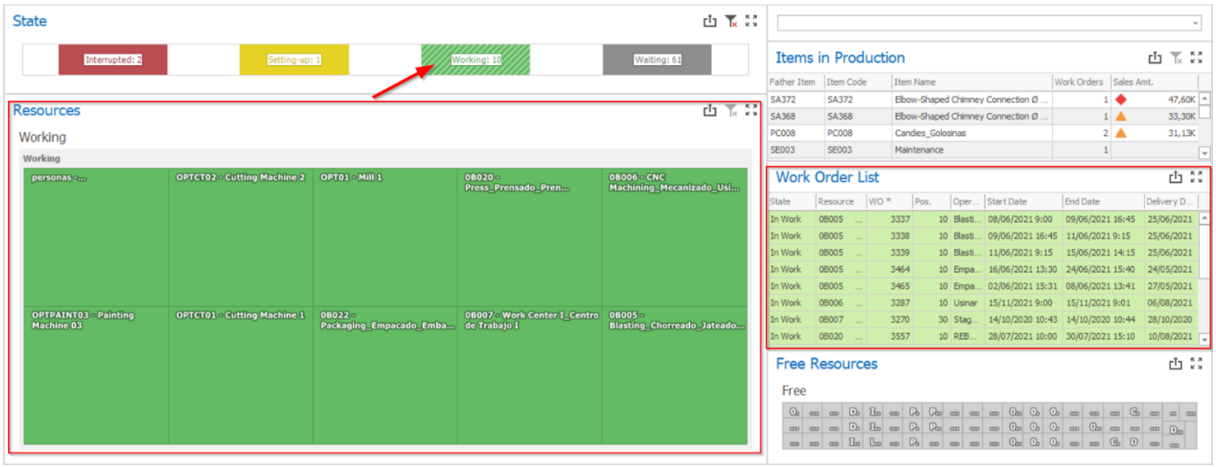


© 2026 Boyum IT Solutions A/S

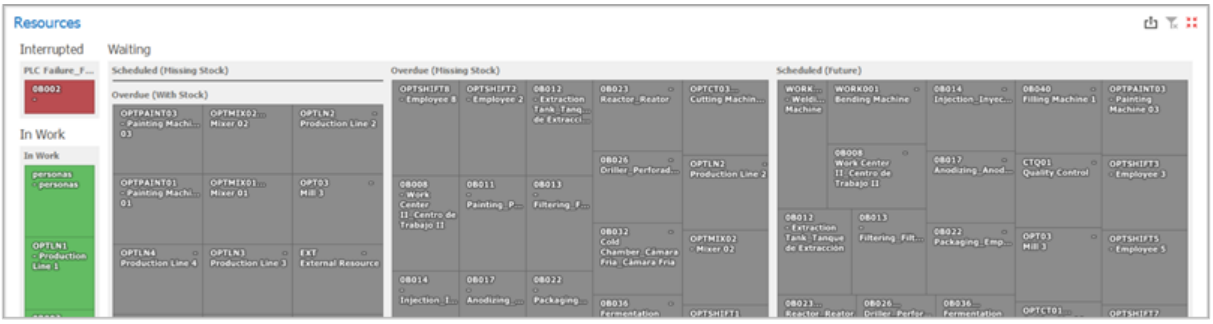
This chart presents the number of resources in each one of the possible main states, allowing an easy filtering just by clicking on the desired state. The possible states:

a) **Interrupted**: Resources with active interruptions;
b) **Setting-up**: Resources with active setup times;
c) **Working**: Resources with active production times;
d) **Waiting**: Resources without any active times or interruptions, but with scheduled tasks.

If you wish to know which resources are in a specific state or which work orders are affected by a particular state, you just need to click on the desired state and check the results under the Resources and Work Order List grids.



18.5.7.2 Resources



This chart groups the resources in three main states, subdivided into sub-states for further insights. For example, if you see that a machine is not operating (is on the "Waiting" state), you might want to know why, and the sub-states will give you the answer. The answer, however, could be in more than one sub-state, as the same machine can have scheduled work orders and work orders for

© 2026 Boyum IT Solutions A/S

which the required components are missing from stock. The possible states and sub-states are:

Interrupted:

a) **Interruption Reason**: The sub-states are dynamically defined to reflect the interruption reasons. In this way, you can instantly know, for example, which machines are down for corrective or preventive maintenance, and which kind of maintenance is being performed.

In Work:

a) **In Work**: There are no sub-states for resources that are in work.

Waiting:

a) **Scheduled (With Stock)**: Work orders are on schedule and with enough stock to produce them. The stock calculation takes into account the current stock and reservations for other work orders (for example, if a required component is in stock, but is reserved for another work orders, the report considers it as unavailable);

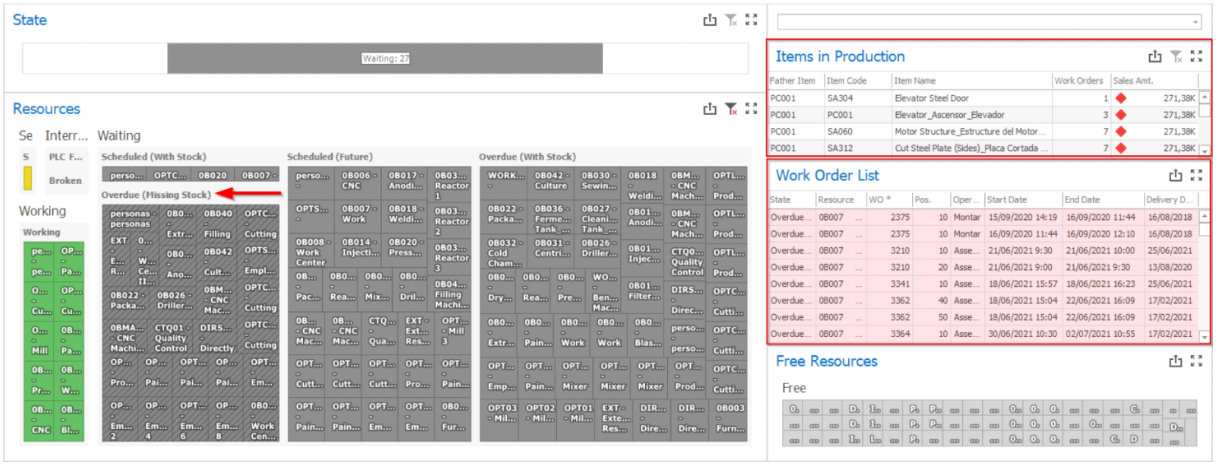
b) **Scheduled (Missing Stock)**: Work orders are on schedule, but the required components to produce them are missing from stock;

c) **Scheduled (Future)**: Work orders are scheduled for the future, with start dates greater than today. Stock is not checked for orders scheduled for the future;

d) **Overdue (With Stock)**: Work orders are overdue, but there is enough stock to produce them;

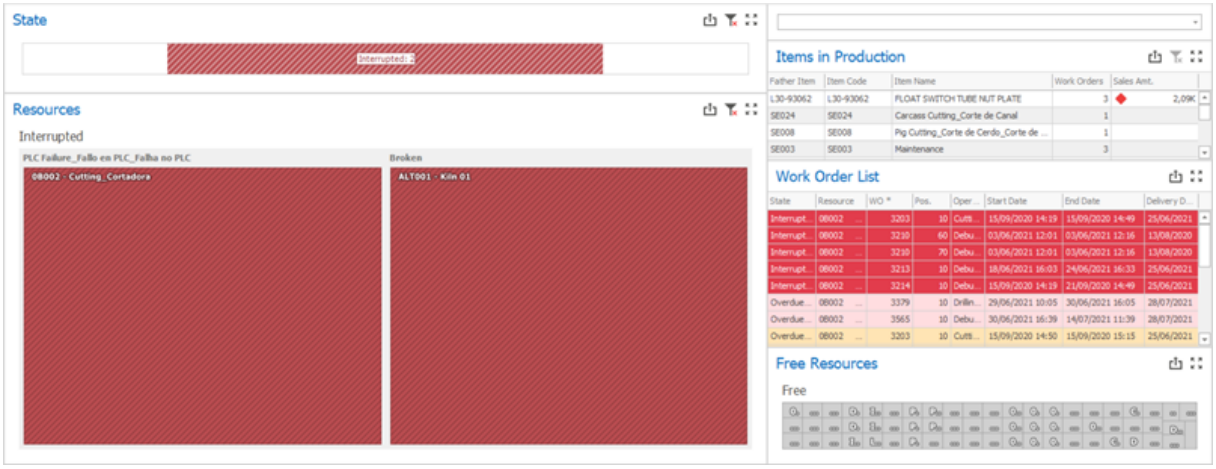
e) **Overdue (Missing Stock):** Work orders are overdue, and the required components to produce them are missing from stock.

If you want to know which work orders are included in each state, substate, or resource, you can just click on the state name, substate name, or on the resource you want to detail. The list of work orders are displayed on the Work Order List grid, and the list of manufactured items on the Items in Production report.



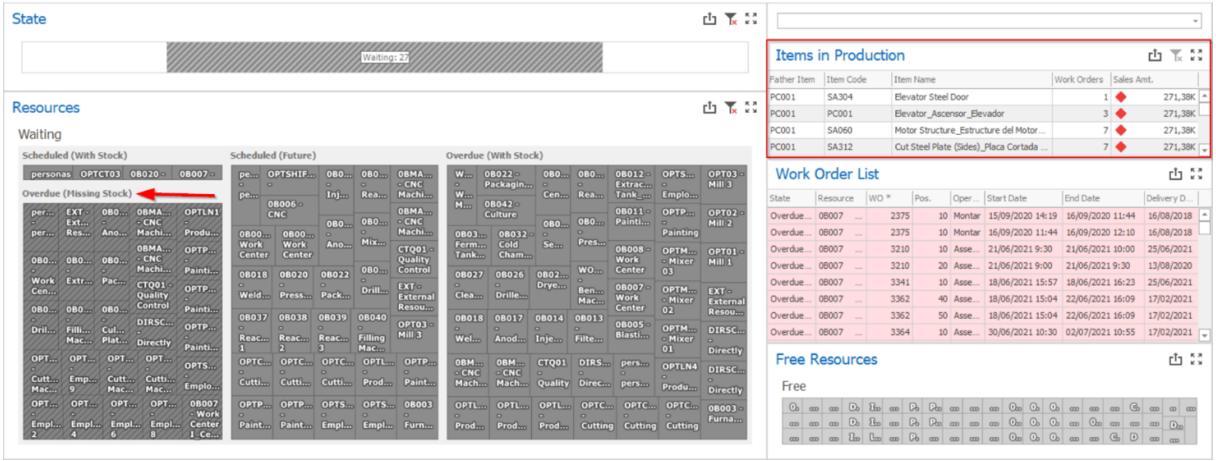
© 2026 Boyum IT Solutions A/S

When you select any resource from the “Interrupted” state, the reports display both work orders directly affected by the interruptions (work orders that were in work when the interruptions were started) and work orders that are scheduled but not started.



18.5.7.3 Items in Production

Using this report, you can instantly know the items affected by the different states, or in production on the different resources. For example, if you want to see a list of all items whose production had to stop because of a resource interruption or to understand the potential delayed sales amount because of missing components in stock, you just need to select the state “Interrupted” or the substates with “Missing Stock” for the report to present you this information instantly.



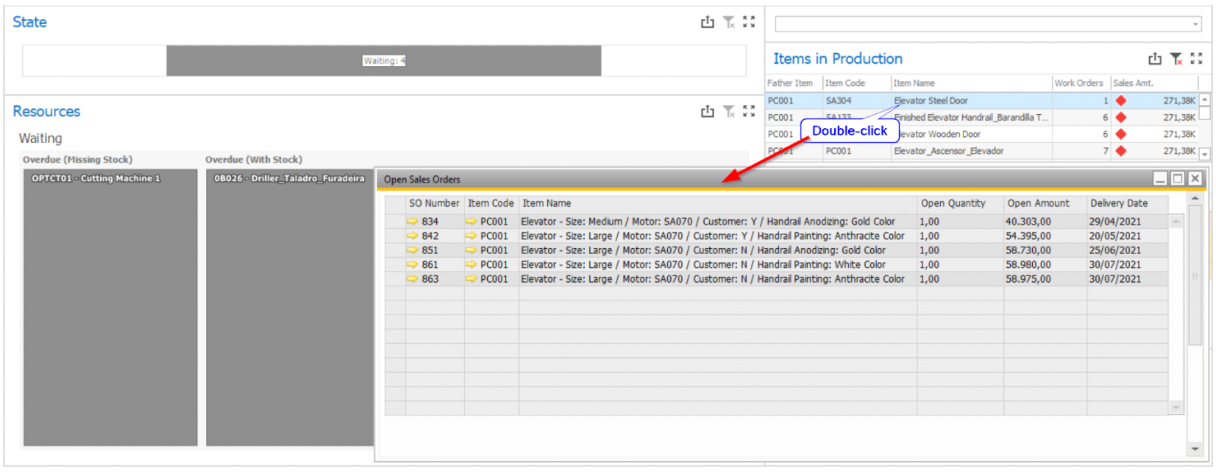
© 2026 Boyum IT Solutions A/S

Additionally, the report also displays the number of work orders open for each item and the total open sales orders amount for each father item (**important:** if different subassemblies are in production for the same father item, the sales amount for the father item might appear duplicated in the report, as the idea of this report is also to give an understanding of which subassemblies need to be completed for the father items to be produced).
By default, two icons can be presented by this report. The icons can be customized by editing the dashboard and defining new color rules.

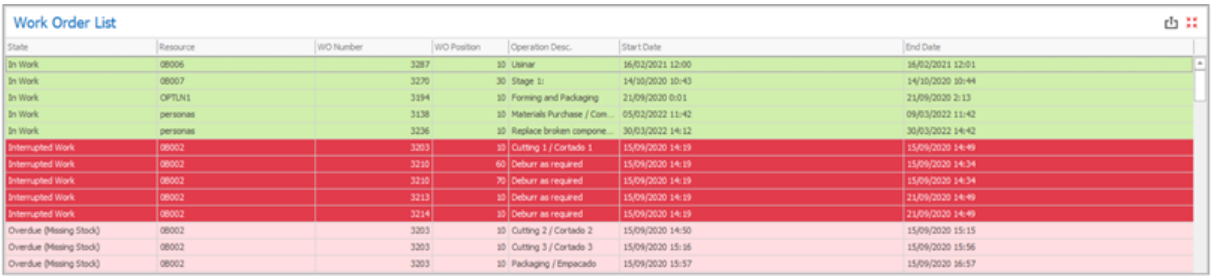
Sales with big impact

Sales with medium or small impact

For understanding which sales orders are open for each father item and their corresponding amounts, the Items in Production grid has also a B1UP Universal Function embedded into it to automatically display a SQL report when double-click any of the lines. If you wish to activate this feature, you must download the UF and import it into B1UP. **DOWNLOAD:** Right-click on the link DASH-FST-SALESORDERS and Save the xml file.



18.5.7.4 Work Order List



© 2026 Boyum IT Solutions A/S

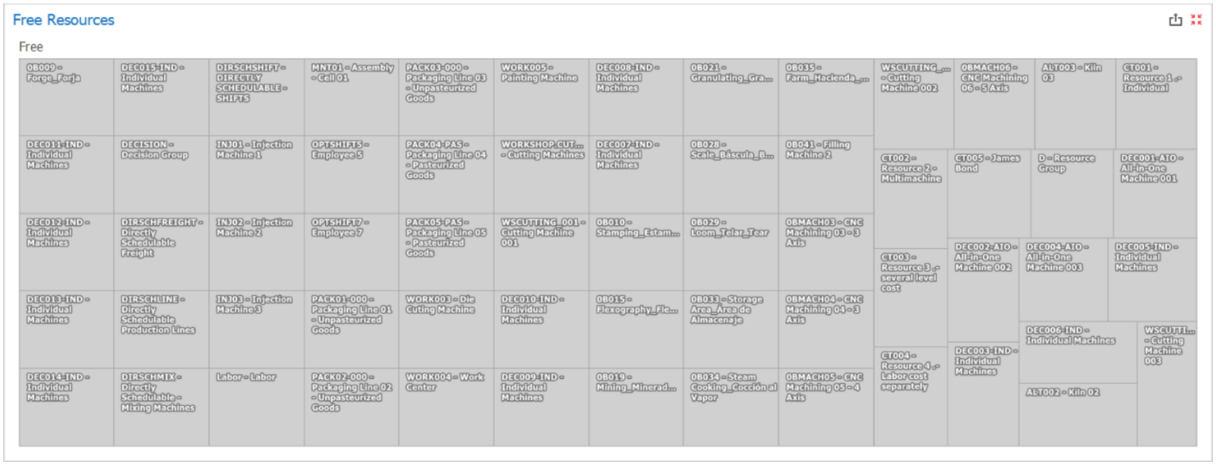
This report shows all the work orders' operations affected by the different states and sub-states, displaying their specific state (relevant for cases where, for example, a resource is in an interrupted state, but has work orders with several states linked to it), the work order number and position, the operation description, and the operation scheduling. The possible specific states are:

a) **Interrupted Work:** The work orders' operations are in work, but are affected by interruptions registered for the resources (highlighted in strong red).
b) **Setting-up**: The work orders' operations are in setup with no registered interruptions (highlighted in yellow).
c) **In Work:** The work orders' operations are in work with no registered interruptions (highlighted in green).
d) **Scheduled (With Stock):** The work orders' operations are on schedule and with enough stock to produce them (highlighted in gray). The stock calculation takes into account the current stock and reservations for other work orders (for example, if a required component is in stock, but is reserved for another work orders, the report will consider it as unavailable);
e) **Scheduled (Missing Stock)**: The work orders' operations are on schedule, but the required components to produce them are missing from stock (highlighted in yellow);
f) **Scheduled (Future)**: The work orders' operations are scheduled for the future, with start dates greater than today. Stock is not checked for orders scheduled for the future (highlighted in gray).
g) **Overdue (With Stock)**: The work orders' operations are overdue, but with enough stock to produce them (highlighted in orange);
h) **Overdue (Missing Stock)**: The work orders' operations are overdue, and the required components to produce them are missing from stock (highlighted in light red).

If you wish to see more details about the work orders, you can double-click the "WO" column and Beas automatically opens the structure view for the selected work order.

© 2026 Boyum IT Solutions A/S

18.5.7.5 Free Resources



This chart lists all the resources that are not interrupted, not started in any work or setup times, and without any production scheduling.

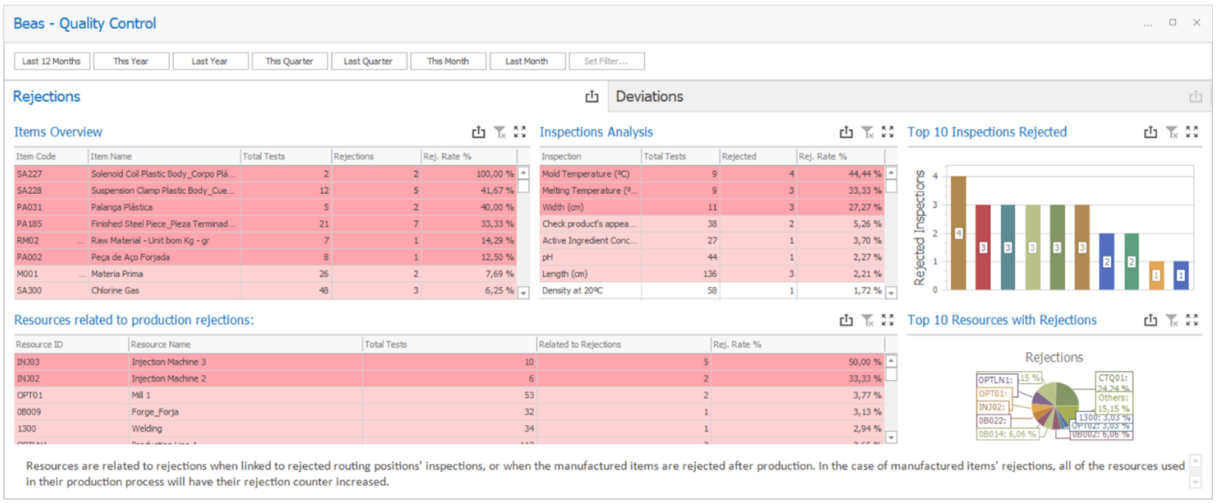
18.5.8 Quality Control

The Quality Control dashboard contains a series of analytical views aimed at giving you a detailed scrutiny over the quality control inspections results, enabling you to find where your highest rejection rates and highest deviations are located, as well as to find which resources might be related to more quality problems on the manufactured items. This dashboard contains two tabs: Rejections and Deviations. The data can be filtered using the pre-made filters for defined time ranges (last 12 months, this year, last year, this quarter, last quarter, this month and last month). Manual filtering can be done by clicking on “Set Filter…”.

Rejections Tab
Deviations Tab

© 2026 Boyum IT Solutions A/S

18.5.8.1 Rejections tab



The Rejections tab displays which items, types of inspections and manufacturing resources are more related to QC rejections, enabling you to find exactly where your quality problems are happening. Additionally, the Rejections tab interacts with the Deviations tab, meaning that any filters or selections applied on Rejections also filter the data under the Deviations tab.

Dashboard sections:

Items Overview

Inspections Analysis

Top 10 Inspections Rejected

Resources related to production rejections

Top 10 Resources with rejections

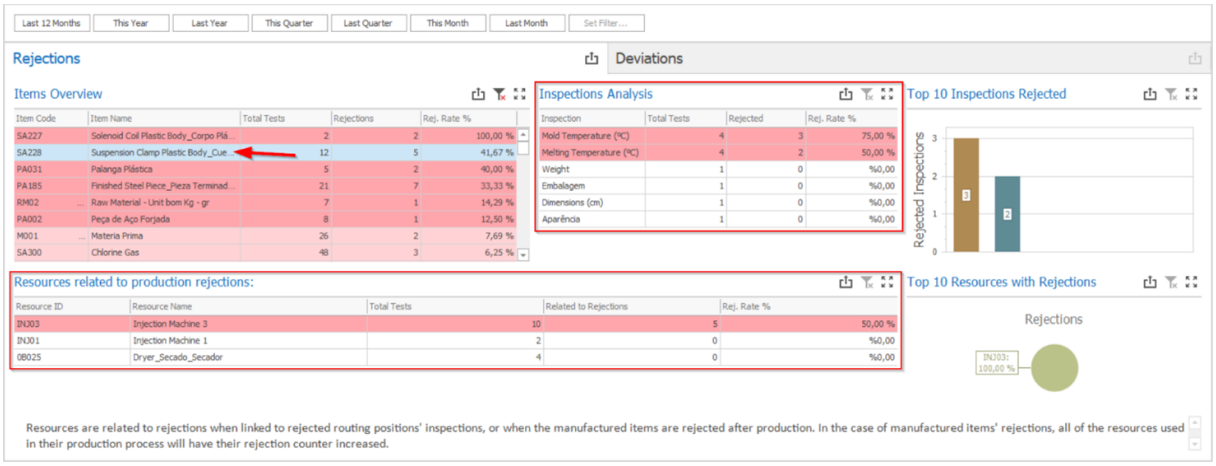
18.5.8.1.1 Items Overview

This grid shows all the items that have been tested in quality control, including the total number of tests, the number of rejected inspections, and their corresponding rejection rates. The rows are colored in a red scale to represent how large the quality rejection rates were:

	100.00 %	>=	10,00 %
	10,00 %	>=	2,00 %
	2,00 %	>=	0,00 %

To have a deeper understanding on which reasons made an item to be rejected, what are the most recurring rejection reasons for it, or how the resources used in its production process were related to the rejections, you can just select the item and check the results under the Inspection Analysis and Resources related to production rejections grids.

© 2026 Boyum IT Solutions A/S

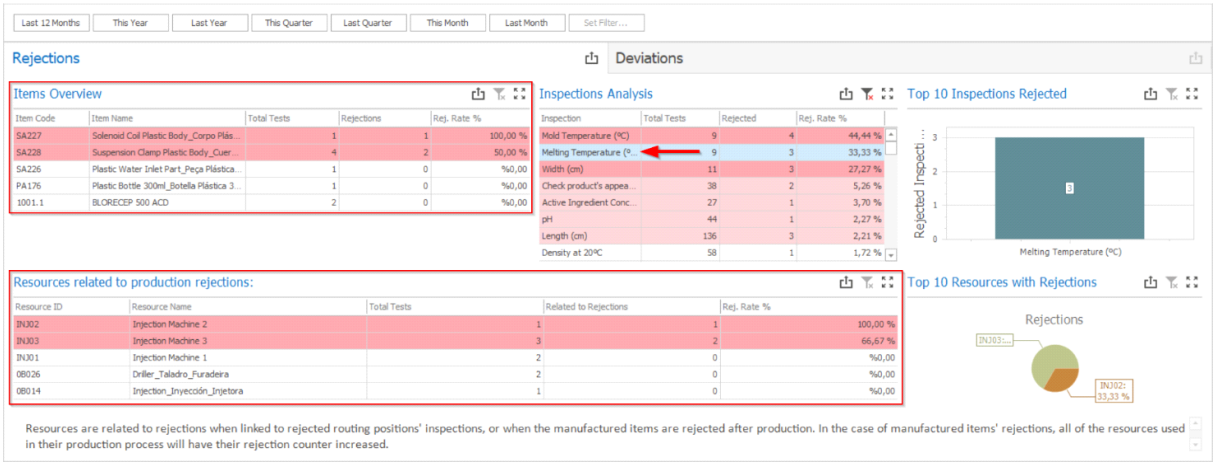


18.5.8.1.2 Inspections Analysis

This grid shows all the different types of inspections performed in quality control analyses, including the total number of tests, the number of rejected inspections, and their corresponding rejection rates. The rows are colored in a red scale to represent how large the quality rejection rates were:

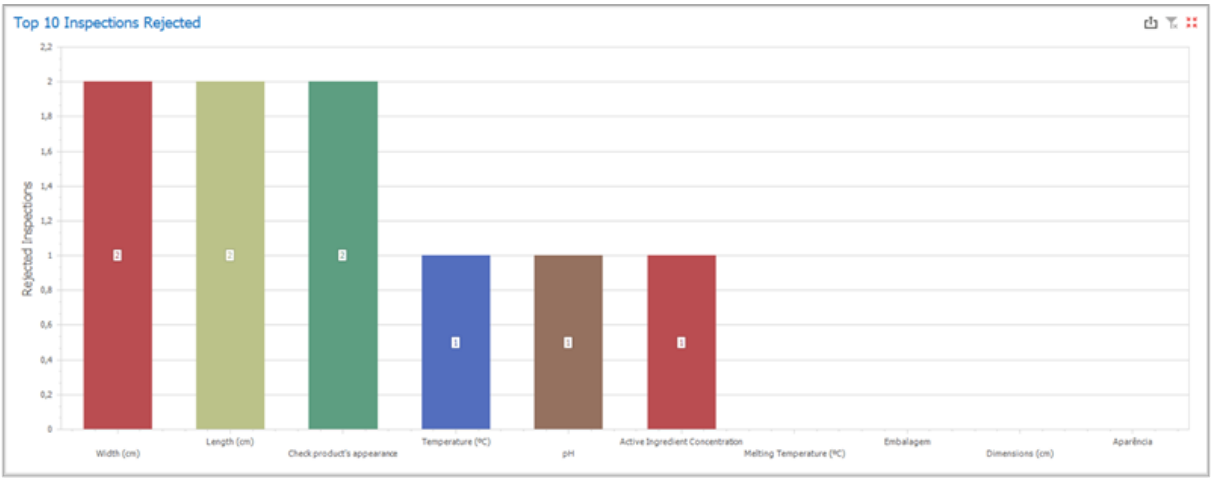
	100.00 %	>=	10,00 %
	10,00 %	>=	2,00 %
	2,00 %	>=	0,00 %

If you want to know which items were rejected for a particular reason or which production resources were used for items related to that inspection type, you can just select the desired inspection and check the results under the Items Overview and Resources related to production rejections grids.



© 2026 Boyum IT Solutions A/S

18.5.8.1.3 Top 10 Inspections Rejected



This chart presents a summary of the top 10 inspections that were rejected on quality control analysis, detailing the number of rejections and the name of the inspection.

Any inspection can be selected for further insights on which products were rejected and for which reasons (triggering filters on the other reports and charts from the dashboard).

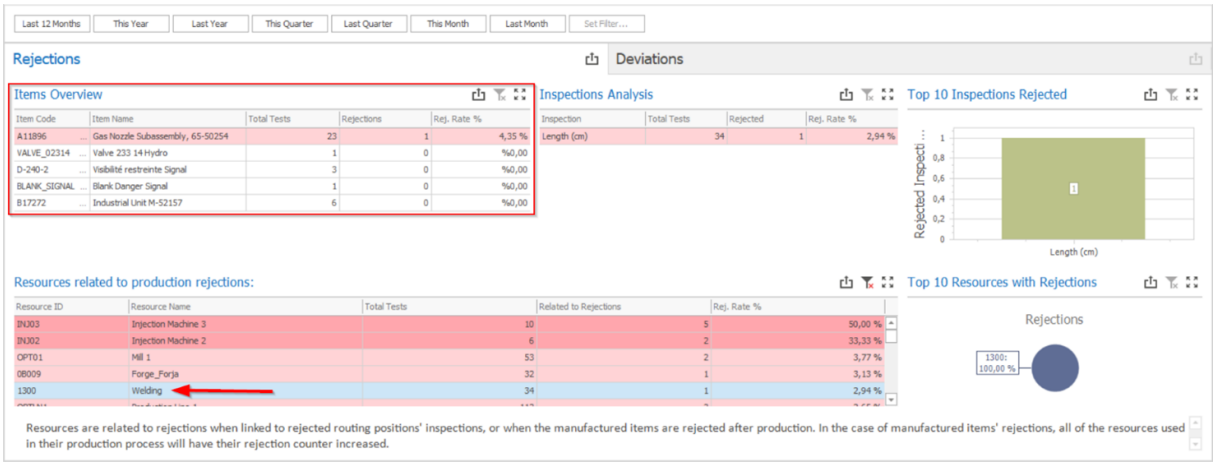
18.5.8.1.4 Resources related to production rejections

This grid shows all the different resources used to manufacture products that underwent quality control analyses, including the total number of tests, the number of rejected inspections, and their corresponding rejection rates. The rows are colored in a red scale to represent how large the quality rejection rates were:

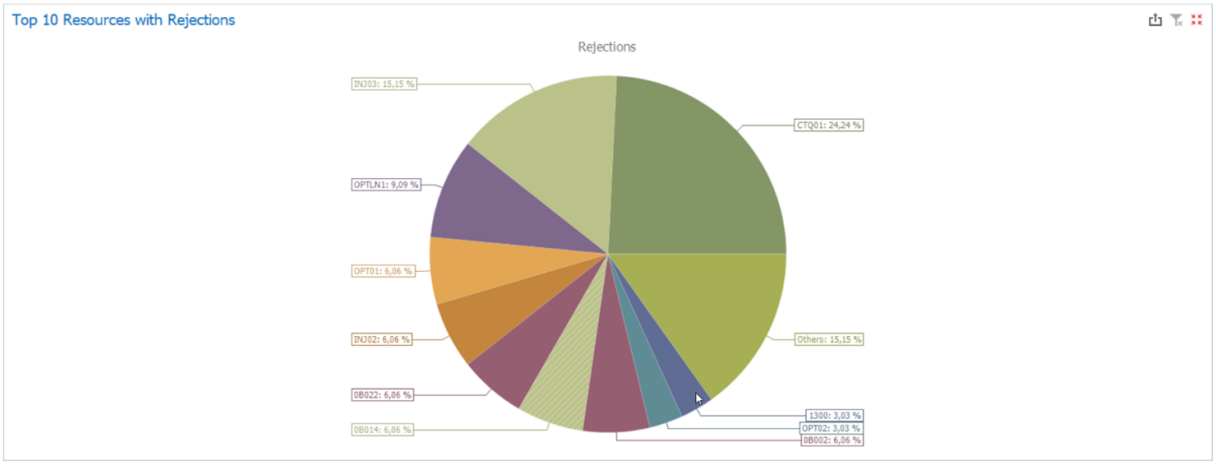
	100.00 %	>=	10,00 %
	10,00 %	>=	2,00 %
	2,00 %	>=	0,00 %

Important: The resources are related to rejections when they are linked to rejected routing positions' inspections (QC Inspection Plan and QC Order associated to a routing position), or when the manufactured items are rejected after production. In the case of manufactured items' rejections, all the resources used in their production process will have their rejection counter increased.
If you want to know the rejection rates of the products manufactured by a specific resource, you can just select the desired resource and check the results under the Items Overview grid.

© 2026 Boyum IT Solutions A/S



18.5.8.1.5 Top 10 Resources with Rejections

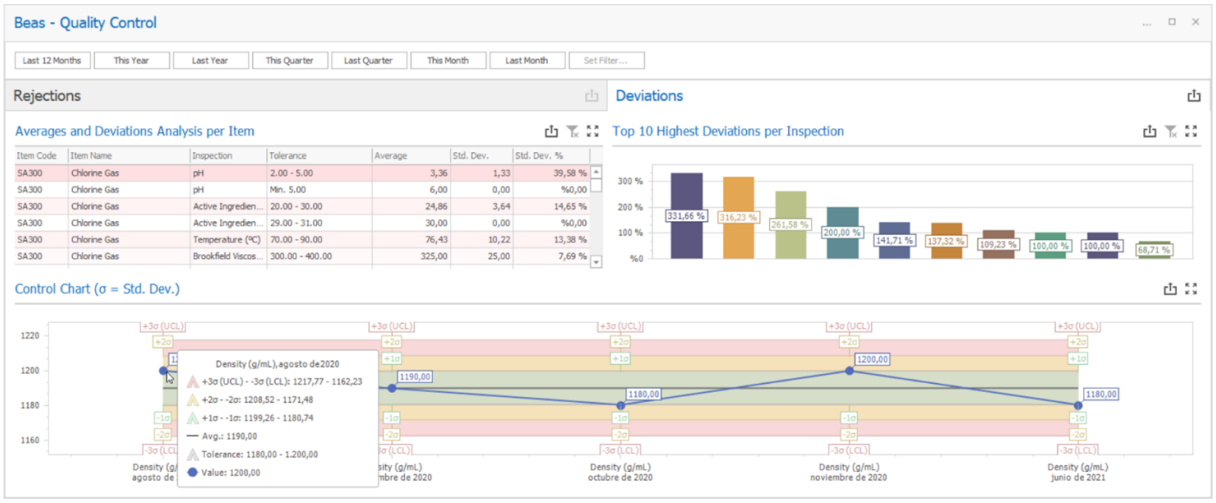


This pie chart presents a summary of the top 10 resources related to quality control rejections, detailing the resource code and the corresponding rejection rate.

Any resource can be selected for further insights on which products were rejected and for which reasons (triggering filters on the other reports and charts from the dashboard).

© 2026 Boyum IT Solutions A/S

18.5.8.2 Deviations tab



The Deviations tab displays the calculated averages and standard deviations for every inspection type related to all the inspected items, as well as a chart to understand the top 10 inspection types responsible for generating the highest deviations, and a control chart, a Statistical Process Control (SPC) tool for Six Sigma initiatives, for monitoring how the deviations of each inspection type are evolving over time. Additionally, the Deviations tab interacts with the Rejections tab, meaning that any filters or selections applied on Deviations also filter the data under the Rejections tab.

Dashboard sections:

Averages and Deviations Analysis per Item

Top 10 Highest Deviations per Inspection

Control Chart (sigma = Std. Dev.)

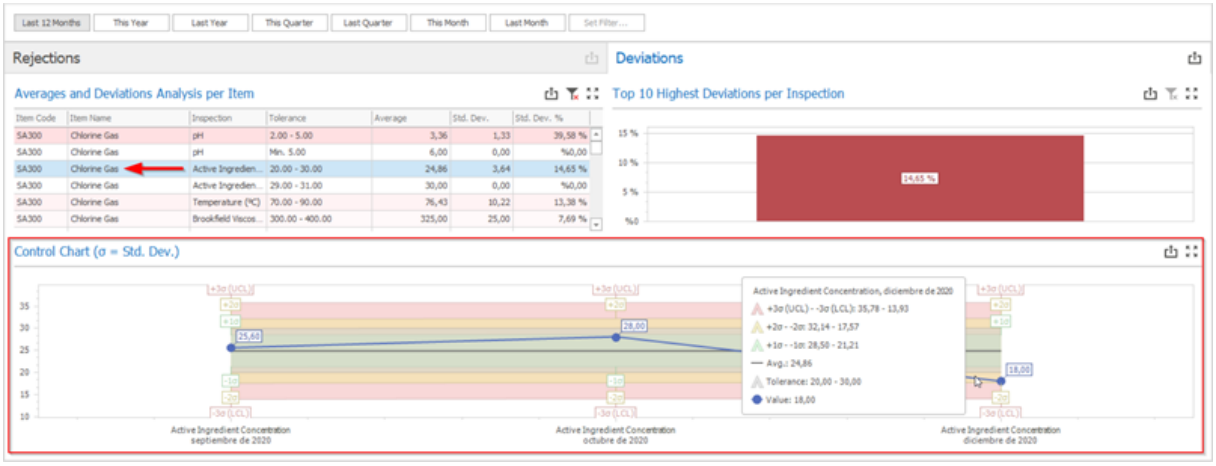
18.5.8.2.1 Averages and Deviations Analysis per Item

The Averages and Deviations Analysis per Item grid presents a detailed analysis over the inspections' measured averages and standard deviations, allowing you to effectively monitor deviations in quality control and how the averages are positioned within the inspections' tolerances. To allow a correct standard deviation calculation, the subjective inspections (OK or Not OK) are interpreted as numbers (1 for OK and 0 for Not OK) but identified as subjective on the tolerance (written as "OK - Not OK").

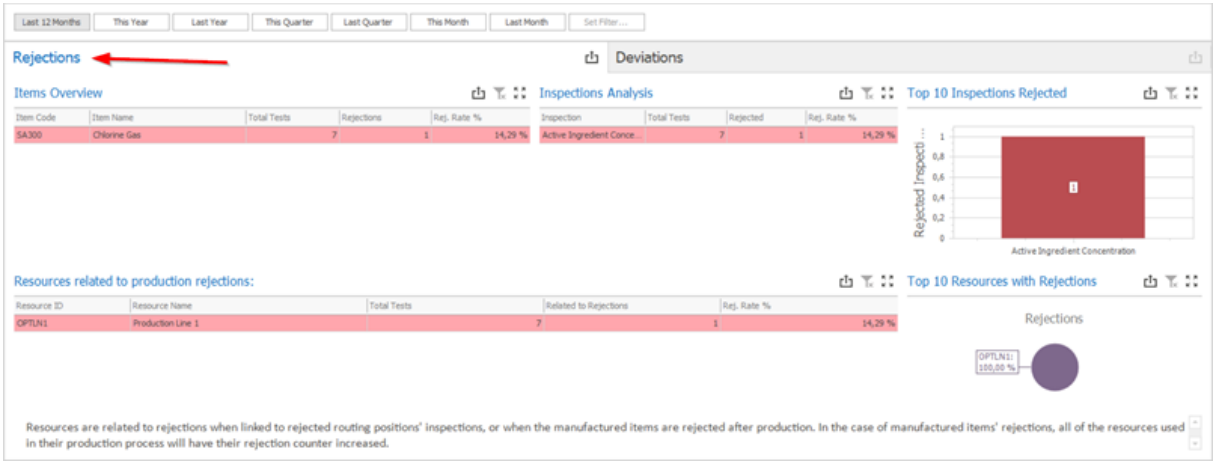
© 2026 Boyum IT Solutions A/S

The last column of this report will indicate the representativeness of the standard deviations over the measured averages, enabling you to easily identify big or small deviations. The rows will also be colored on a red scale according to the standard deviation representativeness.

If you wish to check how the deviations of a particular item and inspection type are evolving over time in a control chart, you just need to click over the desired item and inspection type and check the results under Control Chart (sigma = Std. Dev.).

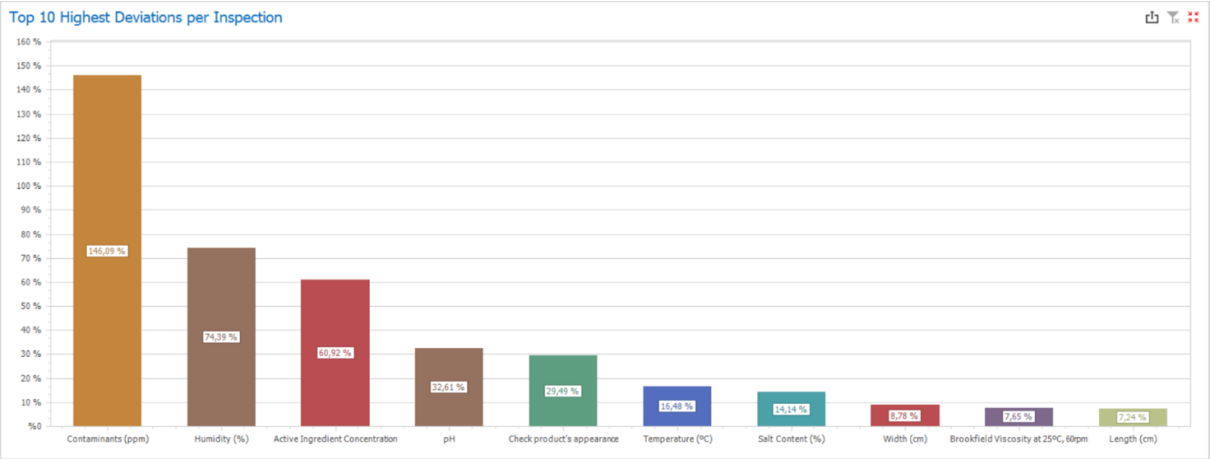


Additionally, if you want to check for rejections associated to the selected item and inspection, you can also check the results under the Rejections tab.



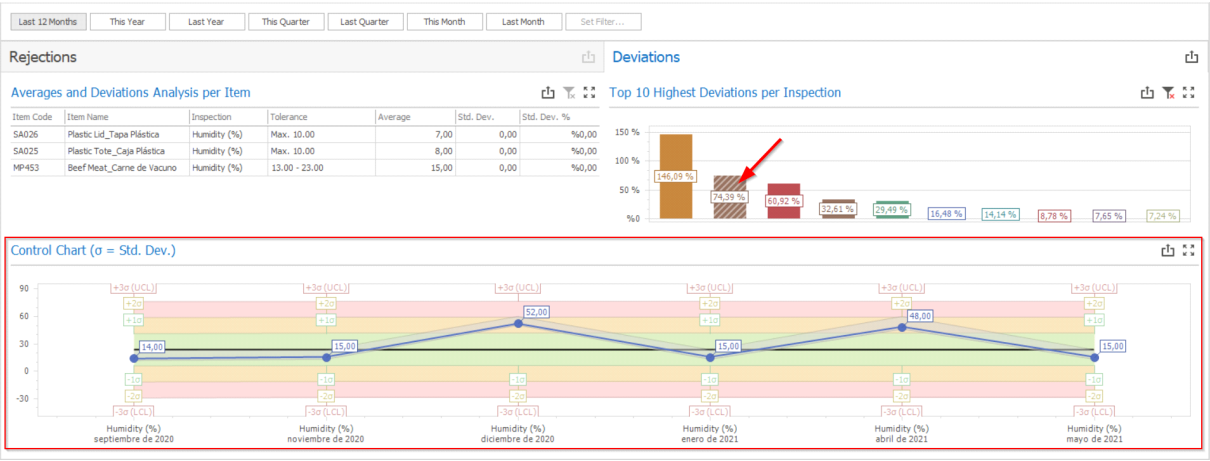
© 2026 Boyum IT Solutions A/S

18.5.8.2.2 Top 10 Highest Deviations per Inspection



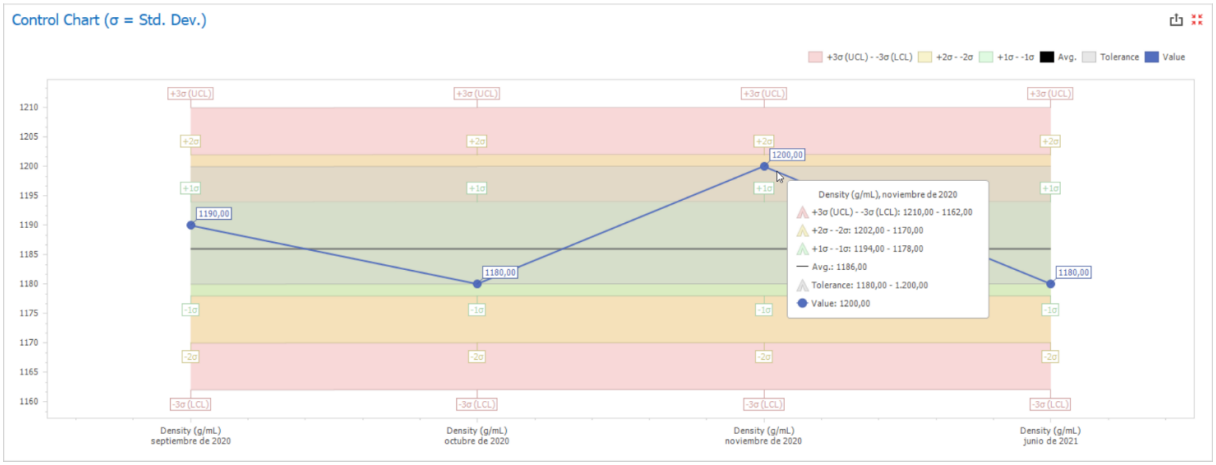
This chart presents a summary of the top 10 inspections with highest standard deviations on quality control, detailing the representativeness of the standard deviations over the measured averages (amongst all inspections performed for all the products – expect in cases in which you filter for a specific product).

Any inspection can be selected for further insights on which products were rejected or on the deviations registered for that specific inspection over time (triggering filters on the other reports and charts from the dashboard). For example, if you want to know how the deviations of "Humidity (%)" are evolving over time, you can just select it and see the results on the Control Chart (sigma = Std. Dev.) chart.



© 2026 Boyum IT Solutions A/S

18.5.8.2.3 Control Chart (σ = Std. Dev.)



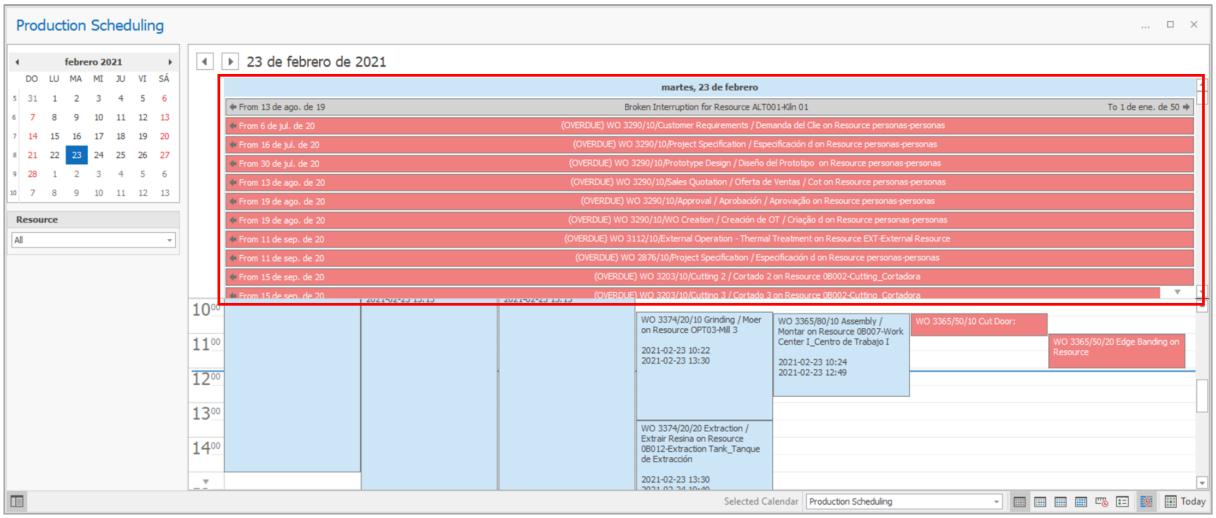
This chart places the monthly averages for each inspection type within control tiers, down to the Lower Control Limit (LCL) and up to the Upper Control Limit (UCL). On the center of the chart, the Center Line will represent the global average across all months (within the selected time range) for each inspection type, calculating the control tiers according to the global standard deviation:

+3σ (UCL): Global average plus three times the standard deviation (Upper Control Limit);
+2σ : Global average plus two times the standard deviation;
+1σ : Global average plus one time the standard deviation;
Avg.: Global average only;
-1σ : Global average less one time the standard deviation;
-2σ : Global average less two times the standard deviation;
-3σ (LCL): Global average less three times the standard deviation (Lower Control Limit).

18.5.9 Production Scheduling Calendar

The Production Scheduling Calendar is a tool built for many purposes around production scheduling. For example, right when opening the calendar, there is a list of all resources that are interrupted at this moment (gray lines on the top) and a list of all the overdue work (red lines on the top.)

© 2026 Boyum IT Solutions A/S



Right after it, the calendar, working in the same way as an Outlook calendar, can detail the scheduling per hours of a day, per week or per month. If there is any operation overdue at the present moment of the day, it is highlighted in red.

It is possible to filter for specific resources on the “Resource” filter and see the resource scheduling in the same formats as the complete scheduling (per day, week, or month). Additionally, the scheduling can be transformed into a work plan when selecting the “Agenda View” option.

Dashboard sections:

Daily View

Weekly View

Monthly View

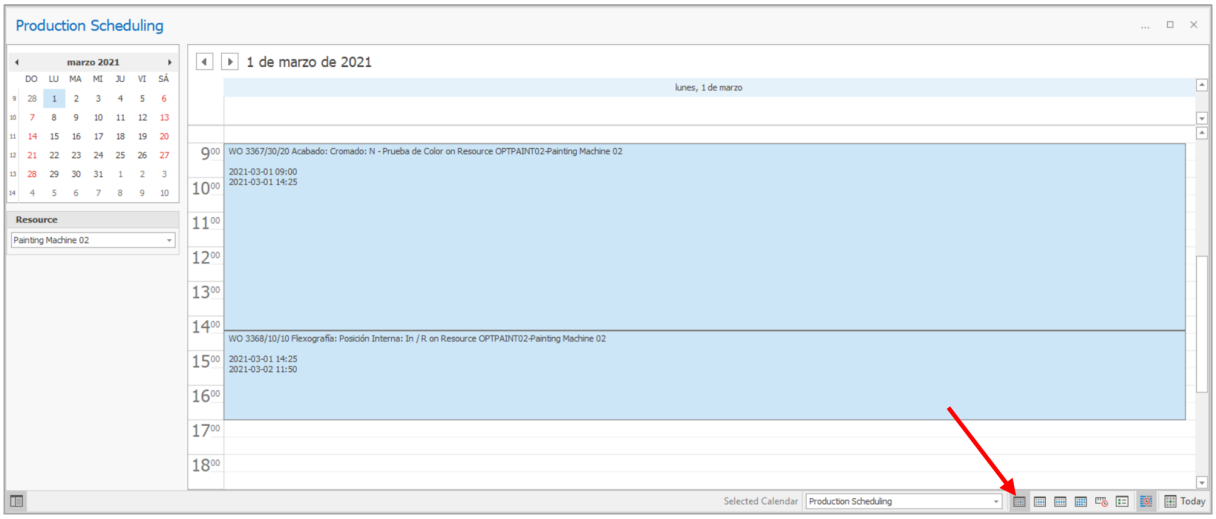
Agenda View

Using the Calendar to Monitor Production Execution

© 2026 Boyum IT Solutions A/S

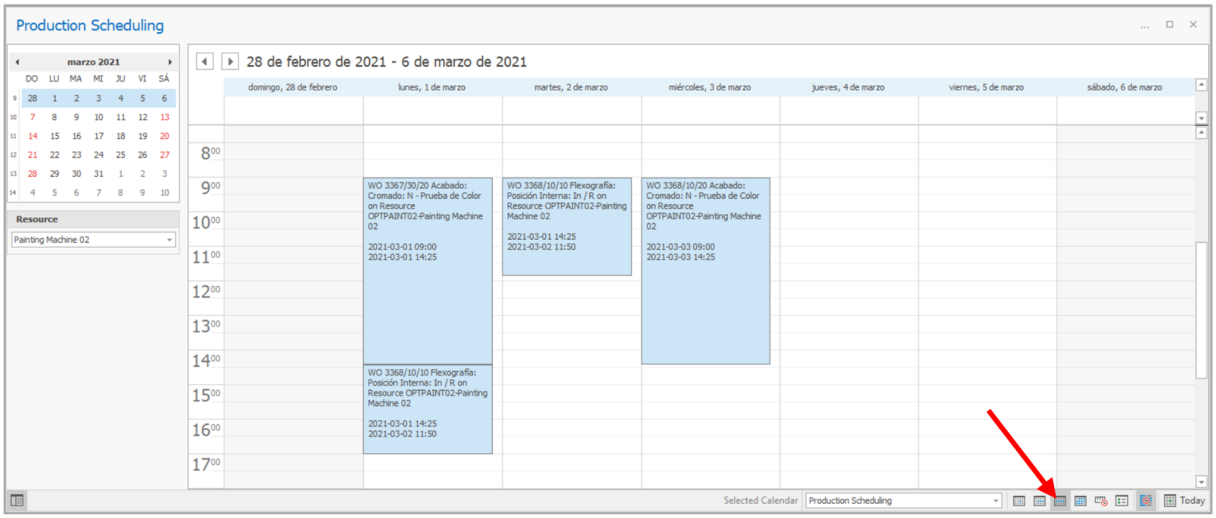
18.5.9.1 Daily View

All operations scheduled for the selected day.



18.5.9.2 Weekly View

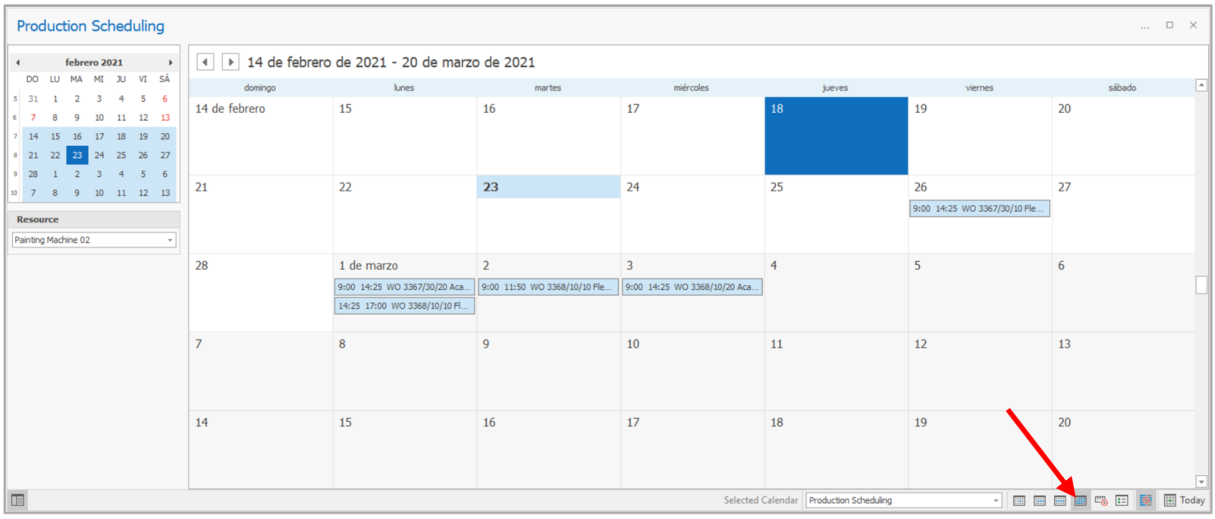
All operations scheduled for the selected week.



© 2026 Boyum IT Solutions A/S

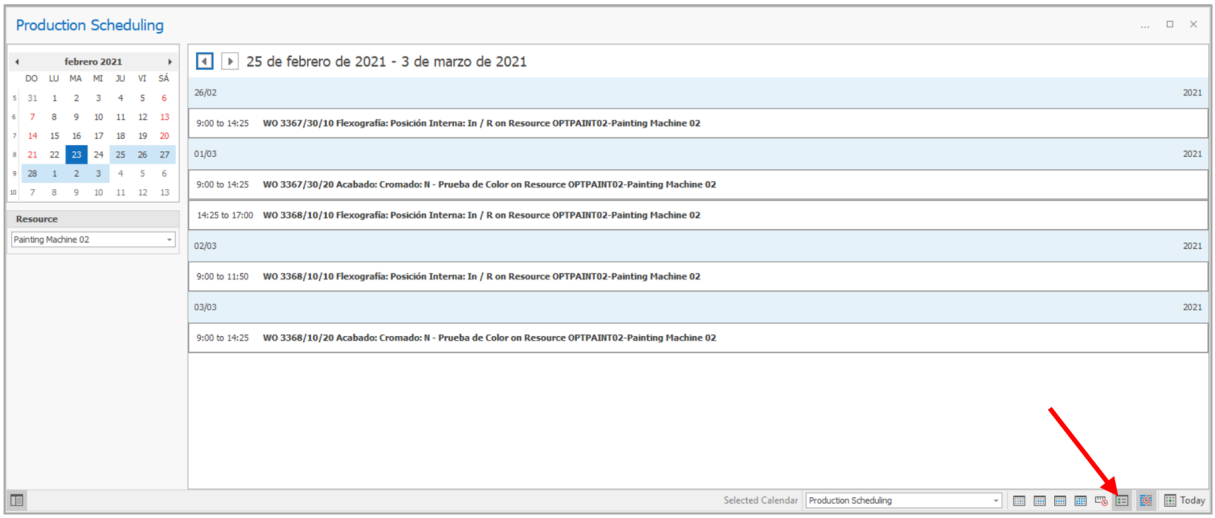
18.5.9.3 Monthly View

All operations scheduled for the selected month.



18.5.9.4 Agenda View

List of operations scheduled for the selected time range. The agenda view can be a very useful tool to list the work planned for the day.

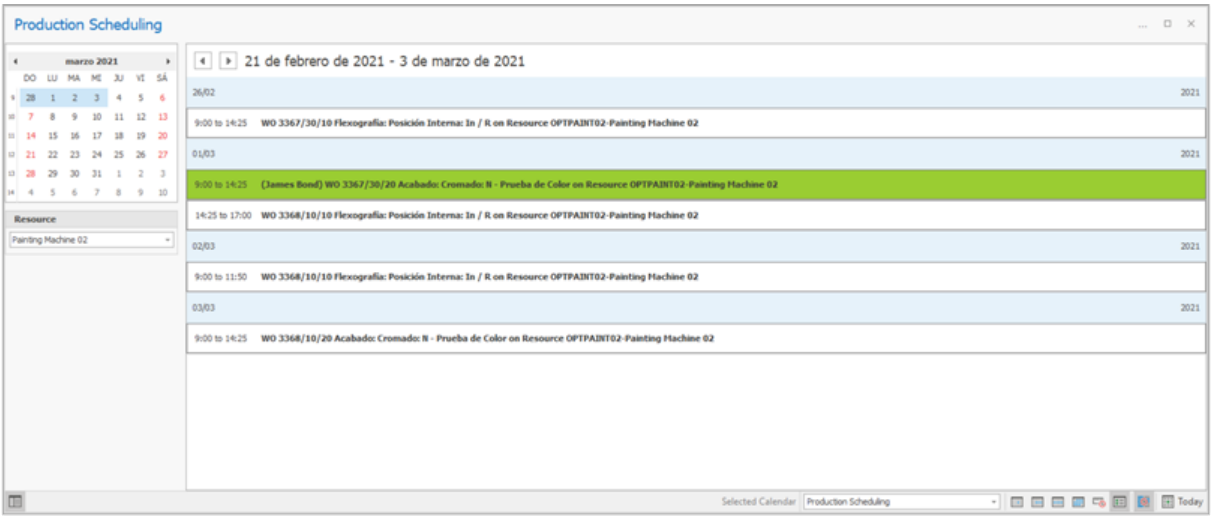


18.5.9.5 Using the Calendar to Monitor Production Execution

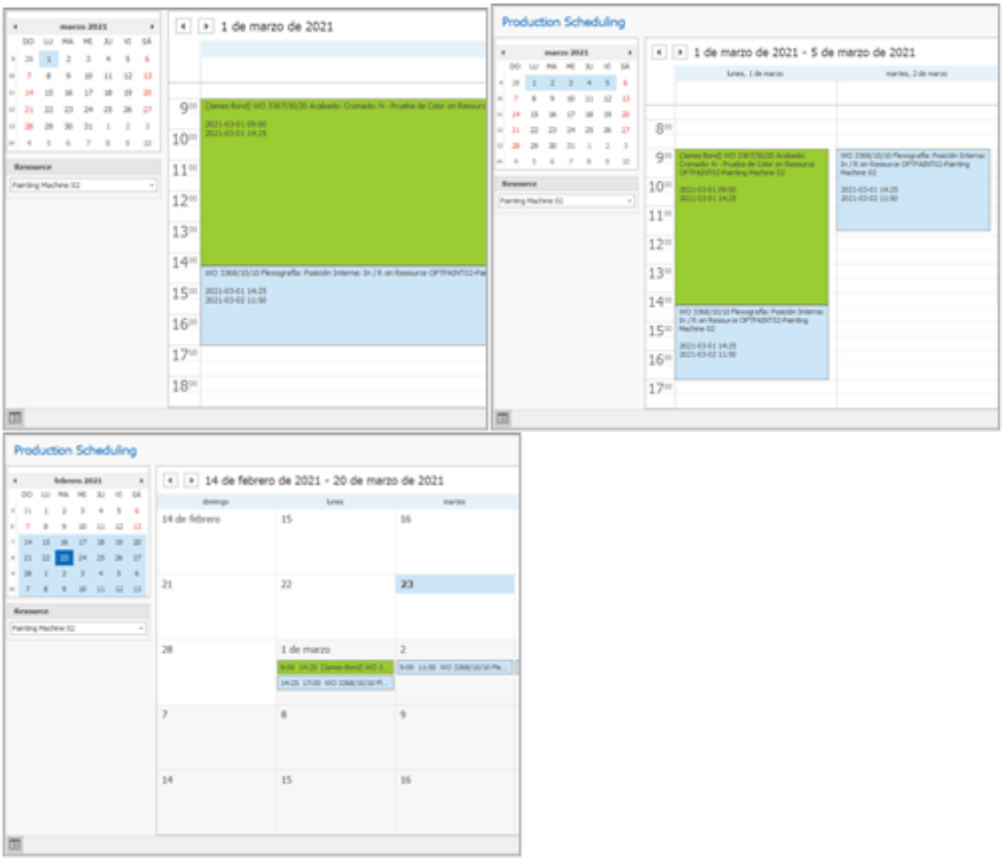
Apart from working as a tool to see the production scheduling in a simple and flexible way, the Production Scheduling Calendar can also help you to monitor the execution of the work orders in real time or serve as a console for the shop floor workers to know which operations need to be worked on now. Whenever an operation is started by a shop floor worker using the Beas Terminal functions, it is displayed in green in the calendar, indicating the name of the operator that is working on it.

© 2026 Boyum IT Solutions A/S

Therefore, when using the calendar as a work list for the shop floor, the workers can know which operations are still pending to be started, and which ones are already in work. The production supervisors and managers can also make use of this information in a summarized way, seeing the progress of the operations on multiple resources.



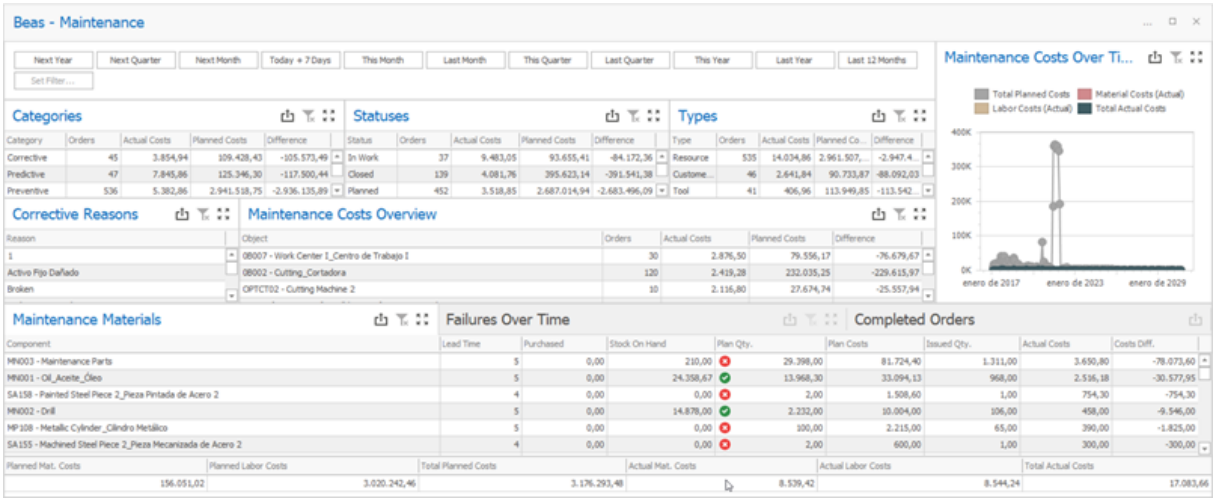
The operations are also highlighted in green in the daily, weekly, and monthly views.



© 2026 Boyum IT Solutions A/S

18.5.10 Maintenance Dashboard

The Maintenance dashboard contains a series of analytical views over the complete industrial maintenance process, enabling you to view its results and forecast future costs and material requirements. The data can be filtered using the pre-made filters for defined time ranges (next year, next quarter, next month, next 7 days, this month, last month, this quarter, last quarter, this year, last year and last 12 months). Manual filtering can be done by clicking on “Set Filter…”.



Dashboard sections:

[Categories, Statuses and Types]

[Corrective Reasons]

[Maintenance Costs Overview]

[Maintenance Costs Over Time]

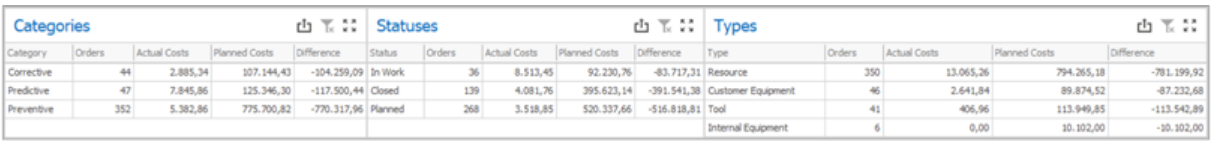
[Maintenance Materials]

[Failures Over Time]

[Completed Orders]

[Totals Area]

18.5.10.1 Categories, Statuses and Types



The first three grids of this dashboard contain the main filters for displaying all its data and the different analysis that can be triggered, showing the number of maintenance orders in each group

© 2026 Boyum IT Solutions A/S

and a comparison between the total planned and actual costs (material and labor – which includes internal labor and external services, all labor costs are calculated using the full costs rates). Those are the different groups available for selection:

Categories:

a) **Preventive:** Maintenance orders generated automatically from the maintenance calendars defined for the maintenance scenarios;
b) **Predictive:** Maintenance orders generated automatically based on the counters defined for the maintenance scenarios;
c) **Corrective:** Maintenance orders created manually or triggered from interruptions.

Statuses:

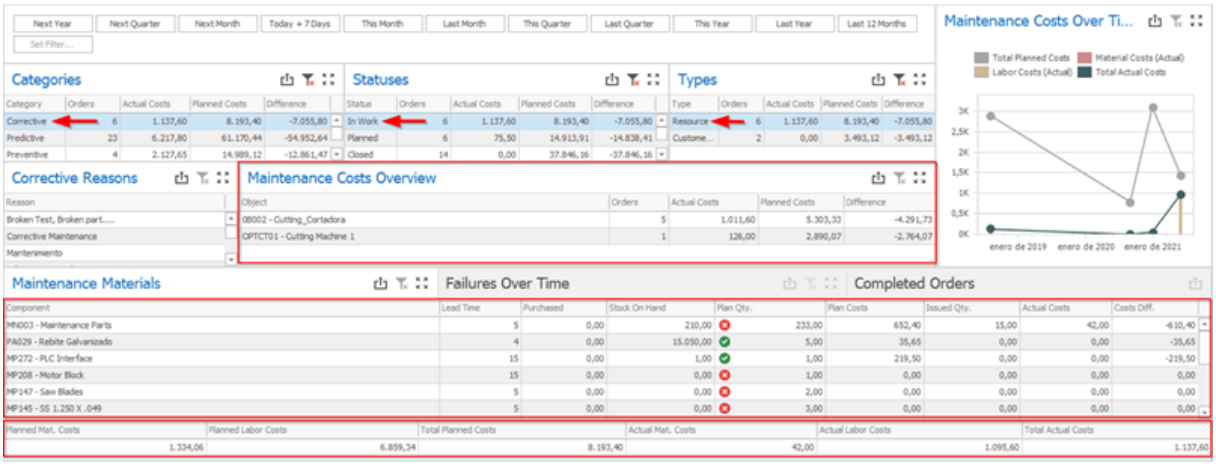
a) **Planned:** Open maintenance orders not set as "In Work";
b) **In Work:** Open maintenance orders set as "In Work";
c) **Closed:** Closed maintenance orders.

Types:

a) **Resource:** Maintenance orders created from maintenance scenarios related to resources;
b) **Tool:** Maintenance orders created from maintenance scenarios related to tools;
c) **Internal Equipment:** Maintenance orders created from maintenance scenarios related to serial numbers;
d) **Customer Equipment:** Maintenance orders created from maintenance scenarios related to customer equipment cards.

Each group can be selected for filtering the dashboard's data. For example, if you want to see all resources for which corrective maintenances are being performed at this moment, and the maintenance materials that their maintenance orders require, you can select the "Corrective" category, the "In Work" status, the "Resource" type and see the results under "Maintenance Costs Overview" and "Maintenance Materials". The total planned and actual costs, for both materials and labor, are displayed in the totals area.

© 2026 Boyum IT Solutions A/S

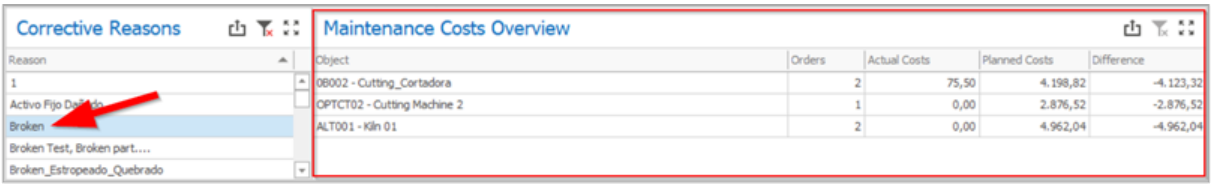


18.5.10.2 Corrective Reasons

This report displays all the corrective maintenances' reasons and will be a valuable guide to understand why the resources underwent corrective maintenance, as well as a filter to list all resources that had corrective maintenance for the same reasons. The reasons can come from the interruption reasons (when maintenance orders are triggered by interruptions) or from the maintenance orders remarks (when manual maintenance orders are created for corrective maintenance).

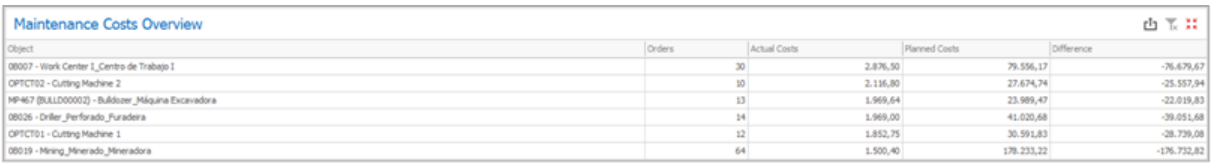
Important: Reasons will only be displayed for corrective maintenance. Preventive and predictive maintenance will not display reasons when selected on the "Categories" list.

Each corrective reason can be selected for filtering the dashboard's data. If you want to see a list of all equipment interrupted for the "Broken" reason, you can select "Broken" on the "Corrective Reasons" list and see the result on "Maintenance Costs Overview".



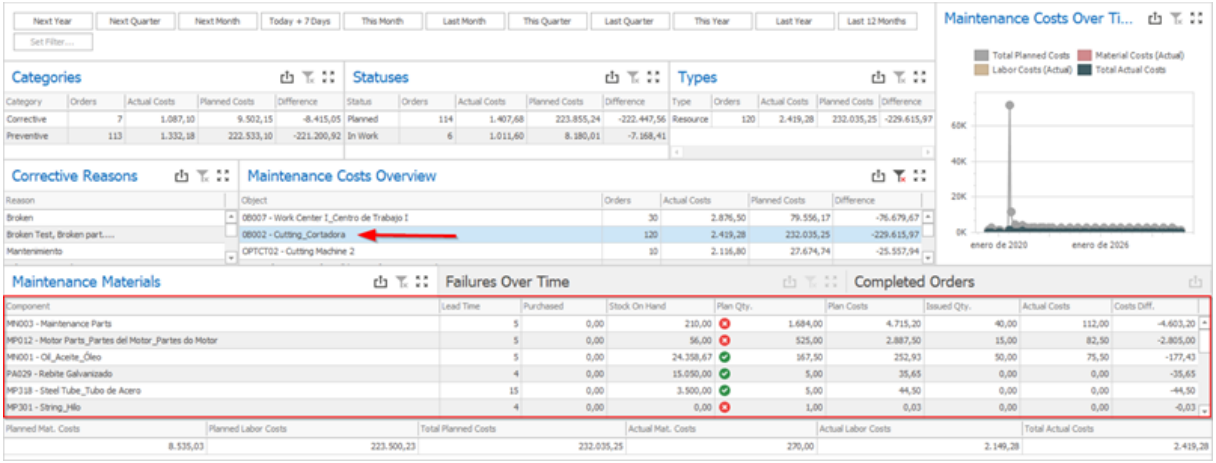
© 2026 Boyum IT Solutions A/S

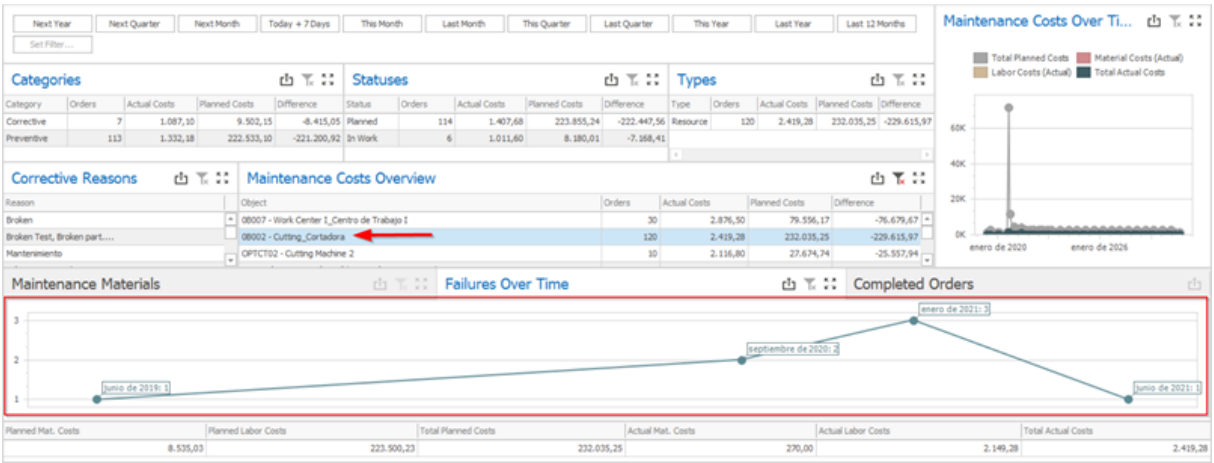
18.5.10.3 Maintenance Costs Overview



This report displays all equipment for which maintenance orders were created, showing the number of maintenance orders for each one and a comparison between the total planned and actual costs (material and labor – which includes internal labor and external services, all labor costs are calculated using the full costs rates). The list of equipment reflects the values selected on the previous reports; for example, if you have selected “Closed” on the statuses report, only values related to closed maintenance orders are shown.

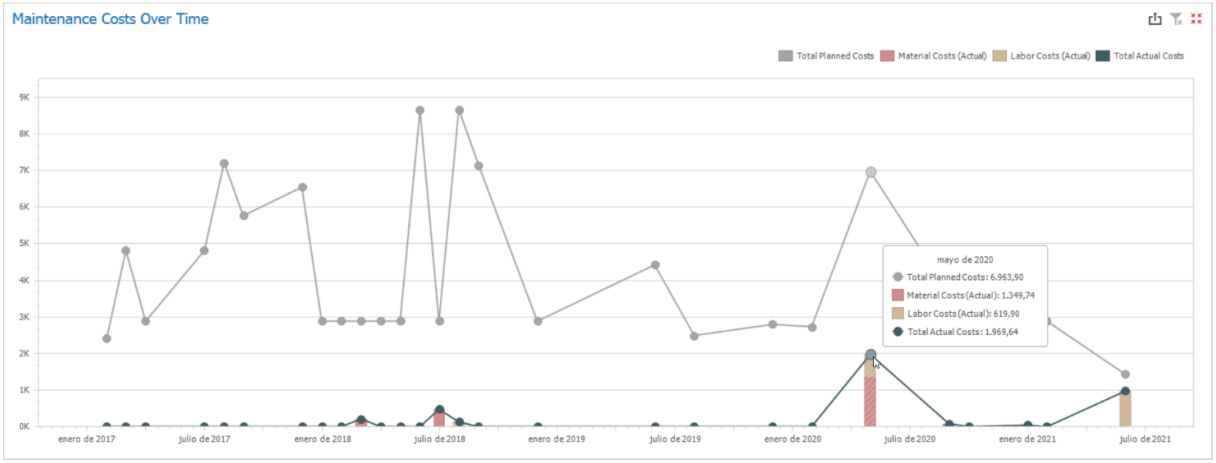
Each equipment can be selected for filtering the dashboard’s data. If you want to see a list of planned and consumed maintenance materials for a specific equipment, or a list of corrective maintenances over time registered for it, you just have to select the desired equipment and see the results under “Maintenance Materials” and “Failures Over Time”.





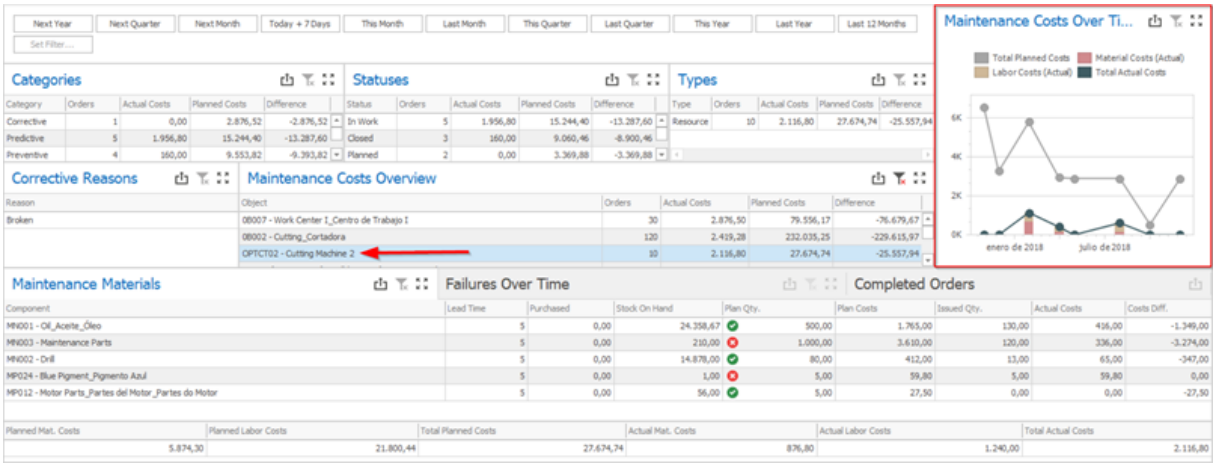
© 2026 Boyum IT Solutions A/S

18.5.10.4 Maintenance Cost Over Time



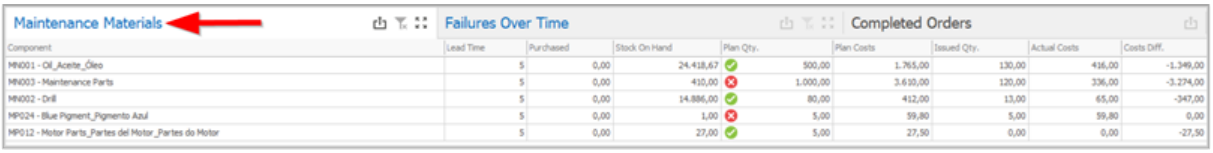
This chart shows how the planned and actual maintenance costs are evolving over time, breaking down the actual costs into material and labor (including both internal labor–calculated from full costs rates– and external services). The chart will reflect the current selections of the dashboard; for example, to check the planned and actual costs for corrective maintenances, you can select the "Corrective" category and see the results on the "Maintenance Costs Over Time" chart.

The same can be done for checking costs related to a specific equipment. To break down the planned and actual costs related to all maintenance orders created for the machine "OPTCT02", you can select it on the "Maintenance Costs Overview" report and see the results on the "Maintenance Costs Over Time" chart.



© 2026 Boyum IT Solutions A/S

18.5.10.5 Maintenance Materials



The “Maintenance Materials” report shows all materials planned or consumed for maintenance orders, according to the values selected on the previous lists. On this report, you will see the materials codes and names, their lead times, purchased amounts in open purchase orders, stock on hand, planned quantities, planned costs, issued quantities, actual material costs, and a difference between actual and planned material costs. On the “Plan Qty.” column, an icon can be displayed to indicate if the existing stock is sufficient or not to cover the components’ requirements for maintenance (the stock verification will only happen for open maintenance orders–planned or in work–, no stock verification will happen for closed maintenance orders, and, when viewing results for several statuses at the same time, the requirements belonging to closed maintenance orders will not be considered on the stock check).

a) **Component**: Item codes and item names of the maintenance materials;
b) **Lead Time**: Maintenance materials’ lead times;

Purchased: Purchased amounts of the maintenance materials in open purchase orders (**important**: the information of purchased amounts is on the dashboard only for reference purposes, as the stock check performed in the “Plan Qty.” column will not consider purchased quantities; for an overall calculation considering all the different demands on the ERP, it is recommended to use the MRP);

c) **Stock On Hand**: Amount of stock for the maintenance materials (base for the stock check performed in the “Plan Qty.” column);
d) **Plan Qty**.: Planned requirements for the maintenance materials from maintenance orders. This column will display a stock check considering the current stock on hand:

Enough stock

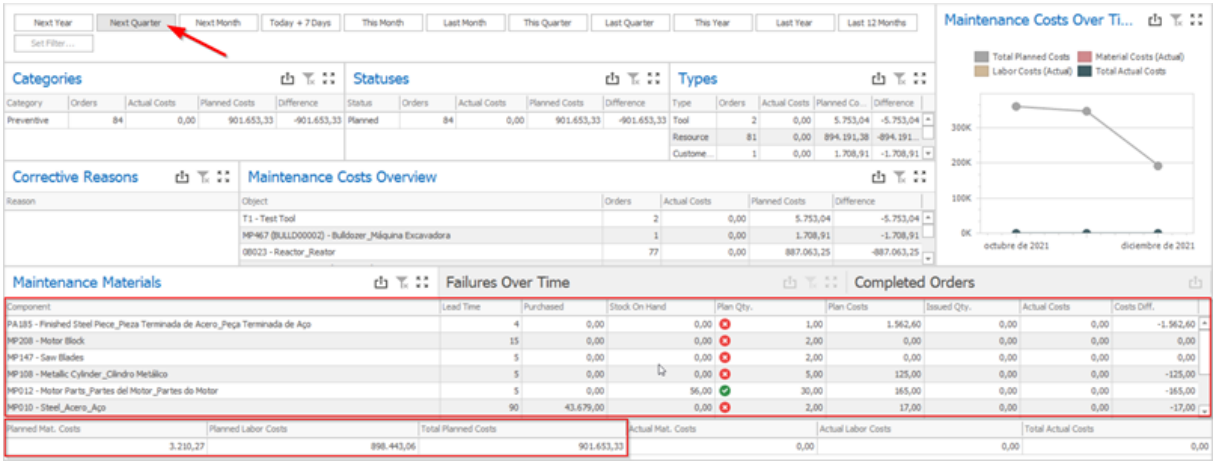
Insufficient stock

e) **Plan Costs**: Planned costs for the maintenance materials, considering their current costs and the requirements from maintenance orders;
f) **Issued Qty**.: Quantity already consumed of the maintenance materials in maintenance orders;
g) **Actual Costs**: Costs registered for the material issues of the maintenance materials performed on maintenance orders;

© 2026 Boyum IT Solutions A/S

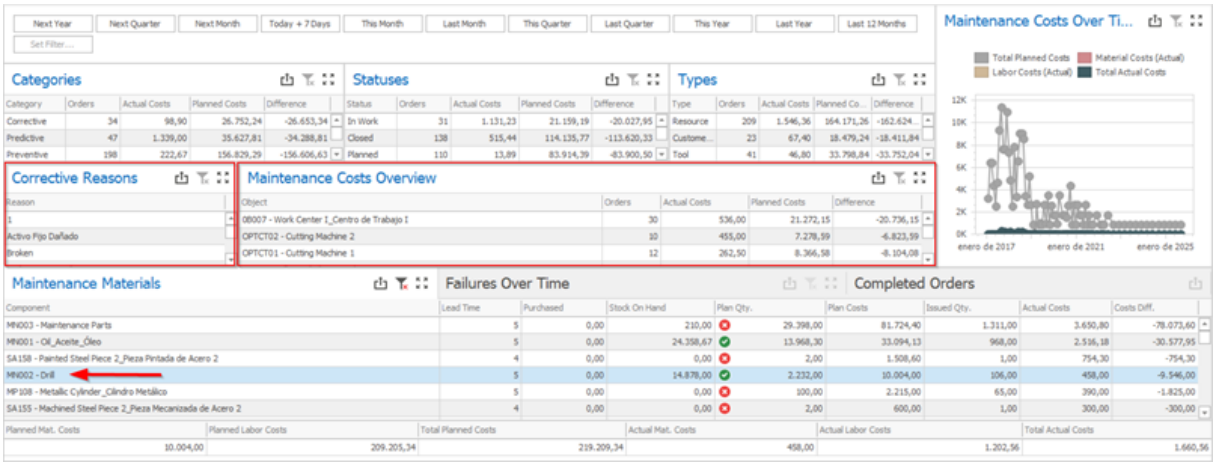
h) **Costs Diff.**: Difference between actual and planned material costs for the maintenance orders.

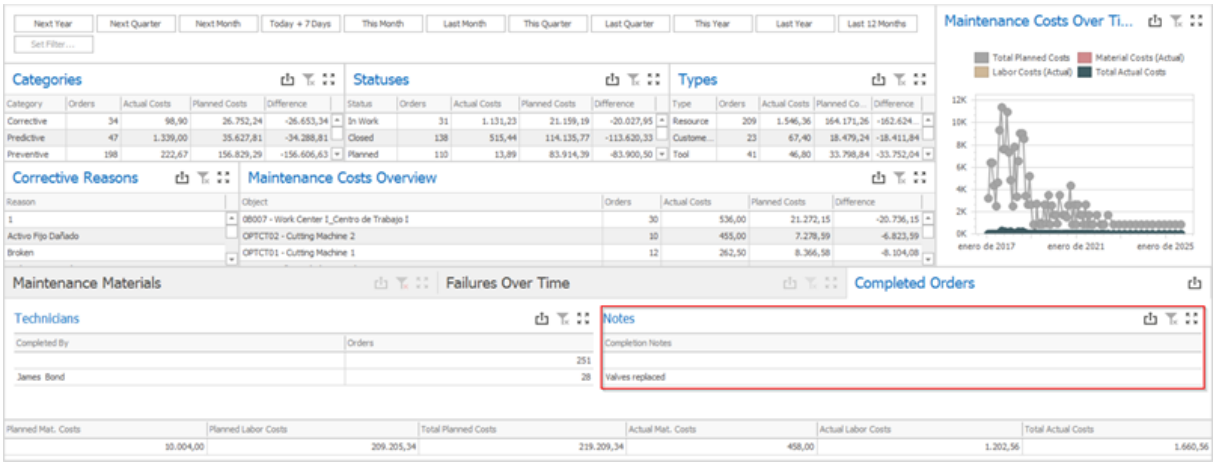
As the values on the "Maintenance Materials" report are filtered according to the previous selections done on the dashboard, it is possible, for instance, to select an equipment and see all the material requirements for a specific maintenance orders' category or status. Additionally, selecting time ranges on the future will enable you to forecast future material requirements for maintenance, as well as to have an estimation of the future financial impacts for maintenance expenses (for both materials and labor). For example, if you want to know which materials you will need and how much you will spend on maintenance during the next quarter, you can select "Next Quarter" on the time range filters and see the results on the "Maintenance Materials" grid and on the totals area.



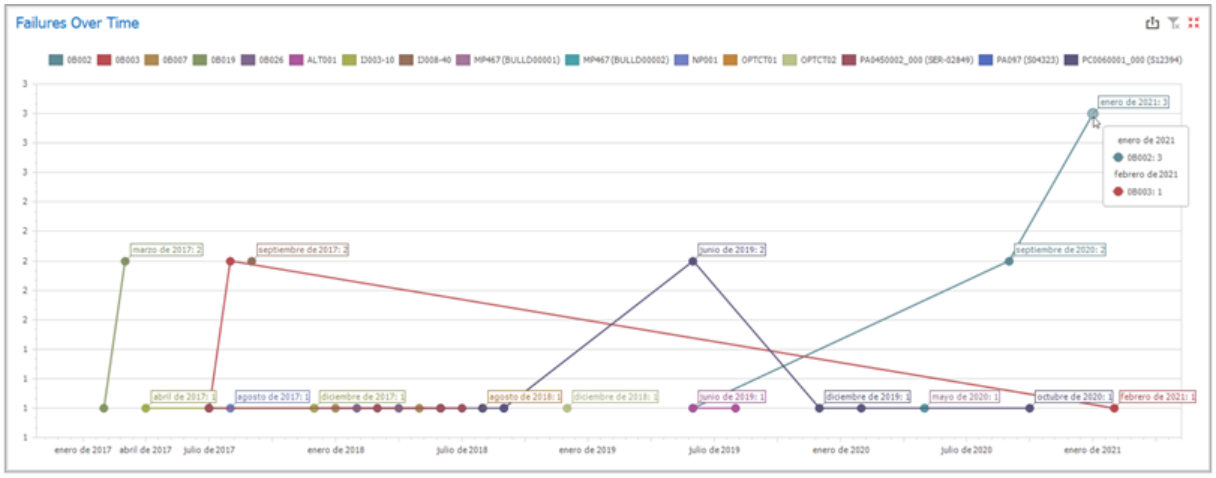
Each component can be selected for filtering the dashboard's data. If you're wondering about which equipment share a same maintenance component, which failure types were associated to maintenances using a specific component, or how maintenance tasks associated to a certain component were solved, you only need to select the maintenance component and see the results on the reports "Maintenance Costs Overview" (all equipment that also have the selected component on their maintenance plans or maintenance orders), "Corrective Reasons" (corrective maintenance reasons for maintenance orders that included the selected component), and "Completed Orders" (lists of technicians who completed maintenance orders associated to the selected component and the notes provided when completing the maintenance orders).

© 2026 Boyum IT Solutions A/S





18.5.10.6 Failures Over Time

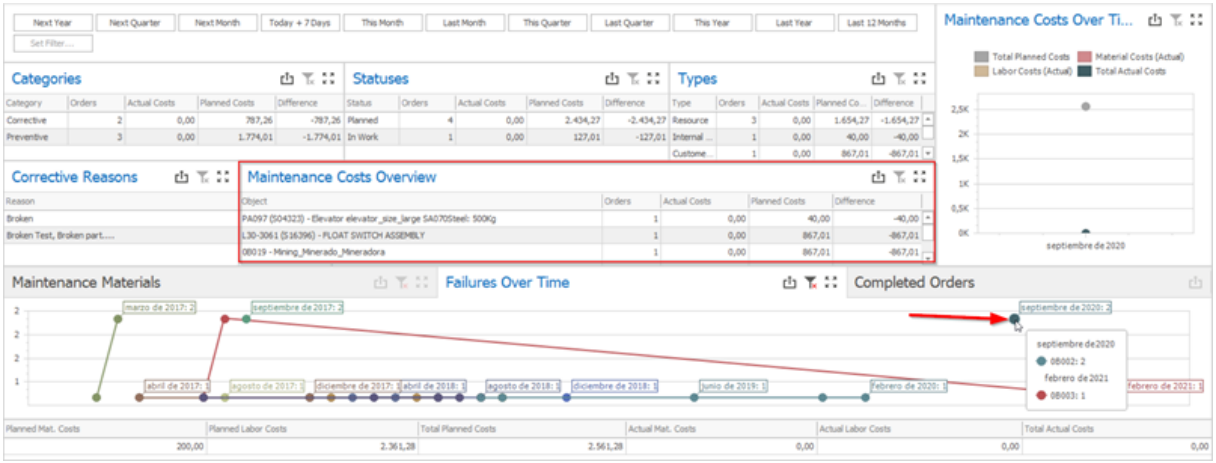


This chart presents all corrective maintenance orders created for the different equipment on a timeline. The data on the chart reflect the values selected on the other reports of the dashboard. Therefore, if you select “Tool” on the types list, the “Failures Over Time” chart will show a timeline of

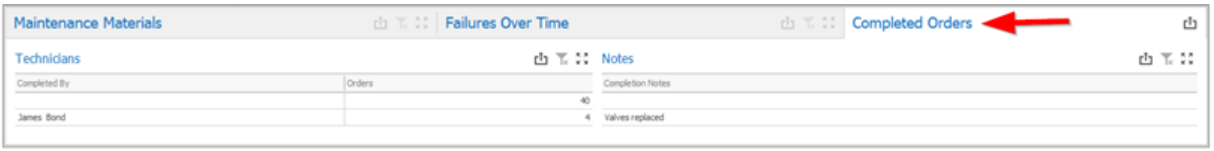
© 2026 Boyum IT Solutions A/S

all corrective maintenances performed for the company's tools. Additionally, if you want to see the pattern of failures on a timeline for one single equipment, you can select it on the "Maintenance Costs Overview" list and see the results on the "Failures Over Time" chart.

Important: The chart only reflects corrective maintenance orders, not other categories of maintenance orders. Each month displayed on the chart can be selected for filtering the dashboard's data. If, when analyzing the chart, you identify a month with an exceptionally high number of maintenances and wish to know which equipment failed in that month, you can just select it and see the results in "Maintenance Costs Overview".



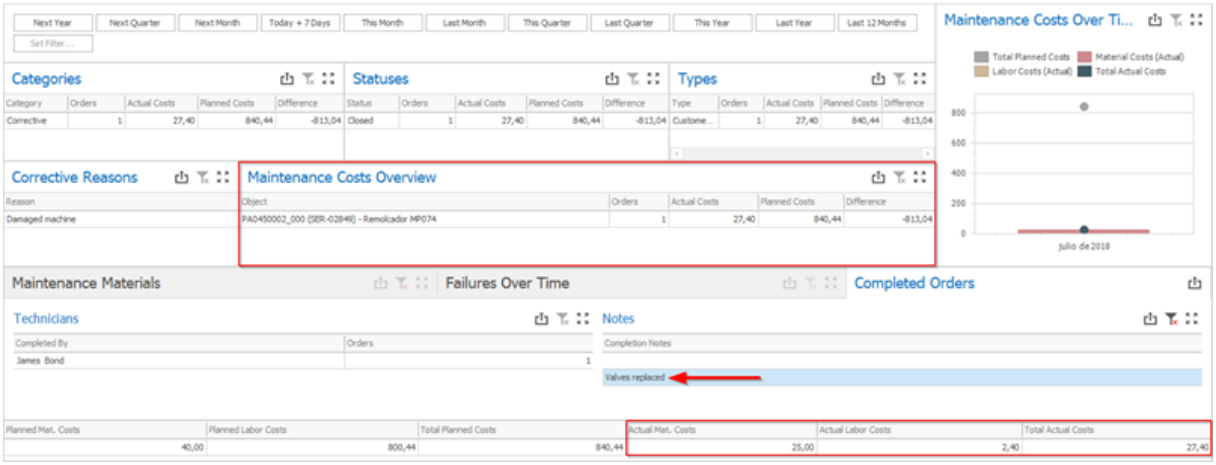
18.5.10.7 Completed Orders



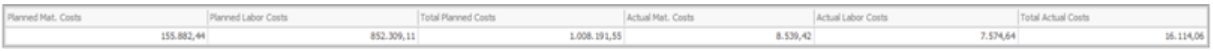
The "Completed Orders" tab contains two reports that can be useful for interpreting closed maintenance orders. On the "Technicians" list, you can see all technicians that were responsible for closing maintenance orders and the number of orders closed by each one of them. On the "Notes" list, you can see the remarks added by the technicians when completing the orders, which explain what they have done on the maintenance orders to solve them. The data on the "Completed Orders" reports can both reflect the values selected on the previous reports of the dashboard and be used to filter the dashboard's data.

For example, if you wish to know a list of equipment that had their maintenance orders solved by "Valves replaced", you can just select this note and see the results on "Maintenance Costs Overview". Additionally, you can take a look at the totals area to understand the costs associated to the maintenance orders that were solved by the same procedure.

© 2026 Boyum IT Solutions A/S



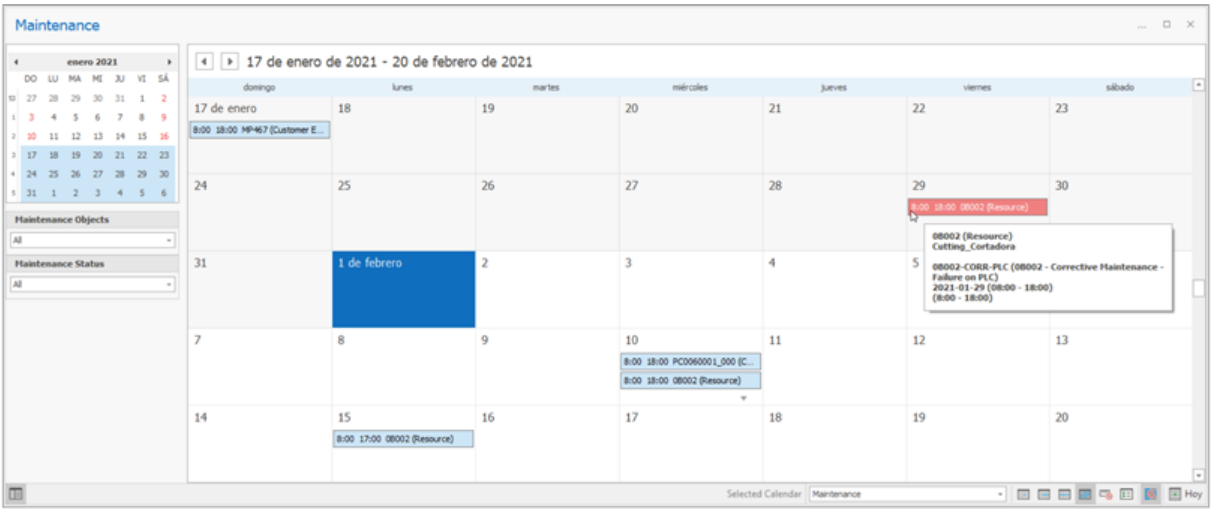
18.5.10.8 Totals Area



The totals area is a single row report at the bottom of the dashboard, in which you can find a summary of both planned and actual costs related to the values that you have selected on the different dashboard's reports. The totals are broken down by material and labor (including both internal labor and external services, all labor costs are calculated using the full costs rates), presenting their planned and actual values, and calculating the difference between planned and actual costs.

18.5.11 Maintenance Calendar

The Maintenance Calendar is a tool that gives you complete visibility over the company's maintenance orders, highlighting each order according to its current status.



© 2026 Boyum IT Solutions A/S

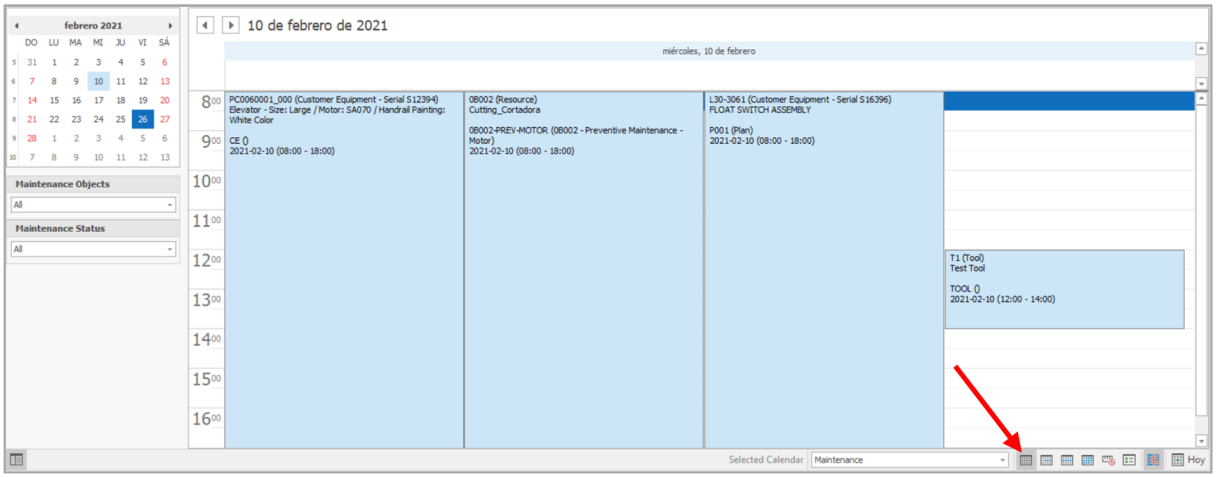
The calendar, working in the same way as an Outlook calendar, can detail the maintenance orders per hours of a day, per week or per month. The closed maintenance orders will be displayed in gray, the planned in blue, the in work in green, and, if there is any resource interrupted for maintenance, the open maintenance orders will be displayed in red, alerting of their importance.
It is possible to filter for specific equipment on the “Maintenance Objects” filter and for specific statuses on the “Maintenance Status” filter.

Dashboard sections:

Daily View
Weekly View
Monthly View
Agenda View

18.5.11.1 Daily View

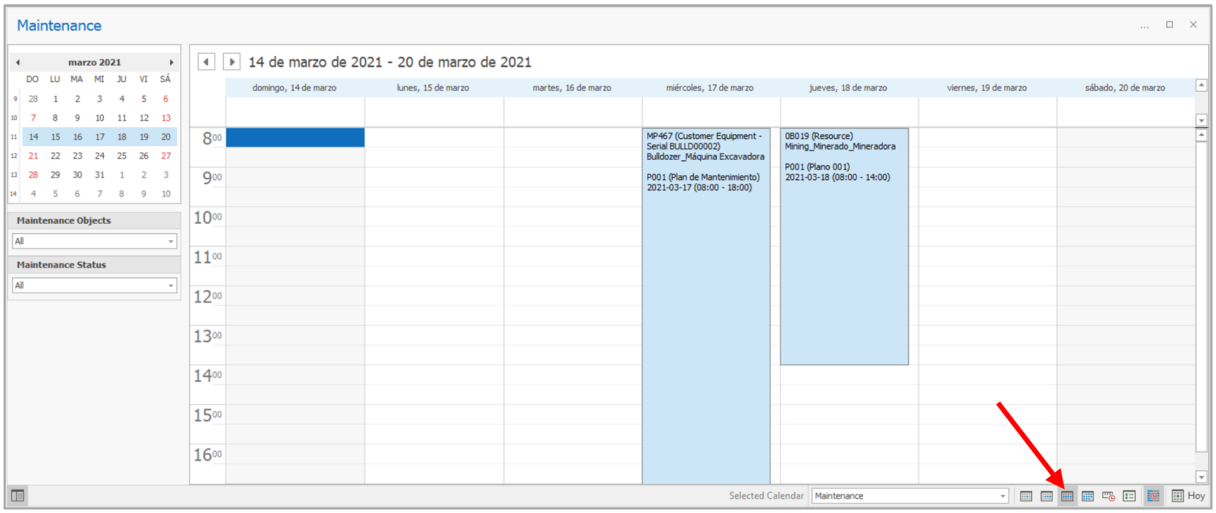
All maintenance orders for the selected day.



© 2026 Boyum IT Solutions A/S

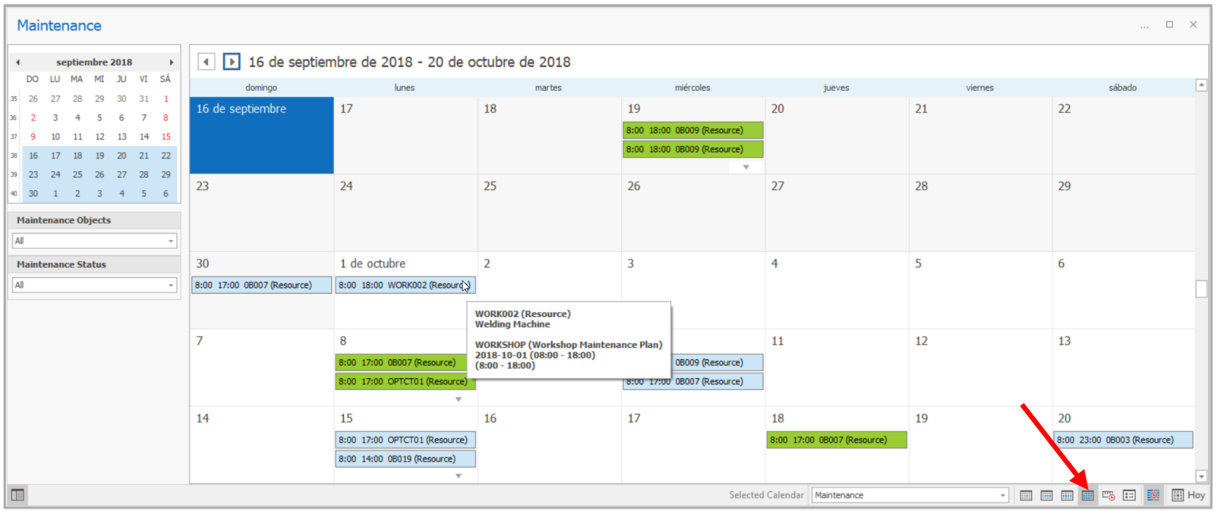
18.5.11.2 Weekly View

All maintenance orders for the selected week.



18.5.11.3 Monthly View

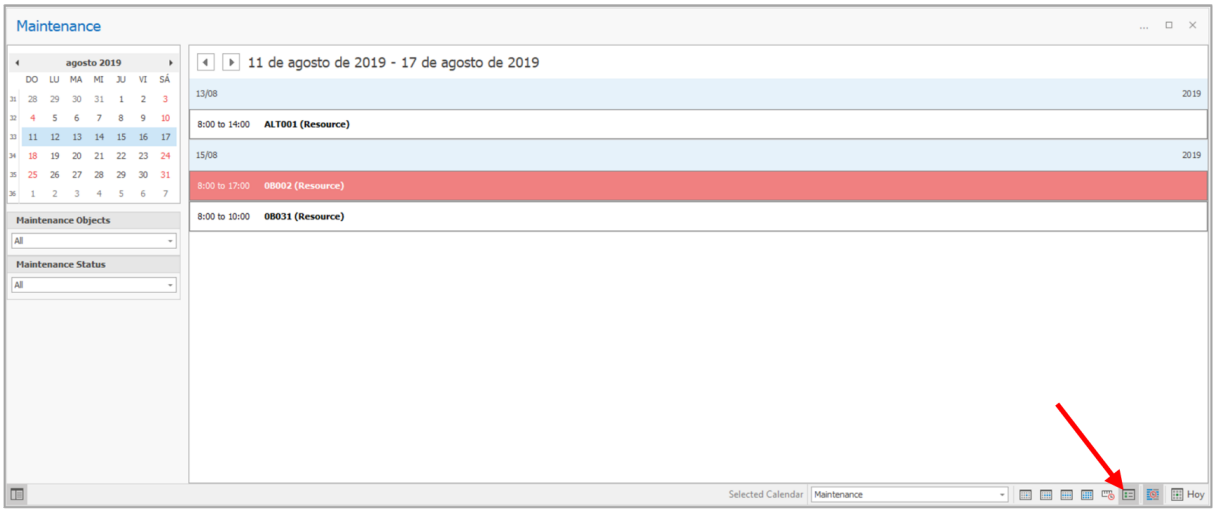
All maintenance orders for the selected month.



© 2026 Boyum IT Solutions A/S

18.5.11.4 Agenda View

List of maintenance orders for the selected time range.



18.6 Beas views

The dashboards utilize views to provide the information to users. The basic views get information on work orders (`BEASV_WORKORDER`), their positions (`BEASV_WORKORDER_POS`), Bill of materials (`BEASV_WORKORDER_BOM`) and routing (`BEASV_WORKORDER_ROUTING`). These views are used together with the resources (`BEASV_RESOURCES`) and their reserved time (`BEASV_RESERVED_TIME`).

Additional views present data of
- Resource utilization: BEASV_RESOURCE_UTILIZATION,
- Interruptions: BEASV_INTERRUPTIONS,
- Items: BEASV_ITEM_SALES_ORDER, BEASV_ITEM_PRODUCTION, BEASV_INVENTORY_HISTORY.

See overview of the new Beas dashboard views in Database views.

© 2026 Boyum IT Solutions A/S

19 Concepts

In this chapter you can find various concepts of Beas Manufacturing explained.

19.1 APS Calculation Types

Beas supports two different calculation methods:
Detailed planning and *Exploit Full Capacity*
You can define the calculation method in
Production > Capacity Planning, APS > APS Calculation Types > Consider capacity limits

- Detailed planning

Beas applies this calculation method only if the following conditions are met:

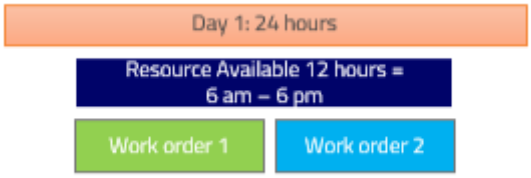
- Only when forward scheduling is used in APS
- Both the APS Calculation method and the work order priority are set to 100%
- In the routing of a work order the operation is set as Simple utilization / or Percentage = 100%
- The resource linked to each of the routing positions of the Work order is set to have the master data fieldÂ Number of machines/Pers = 1.

How Detailed planning works:

The detailed planning checks to the minute when a resource is available, and whether the work sequence can be completed in the available time windows.
Assumptions: our resource is the same on all routing position on the below reported examples and has a total capacity of 12 hours per day.

Example 1:
Work order No. 1 and Work order No. 2 start at 6am on the same date/time. Both work orders only have one routing position and each position has an entire duration of 6 hrs.
The result of an APS forward scheduling will be: Work order 1 starts at 6am, Work order 2 starts at 12pm because between 6am and 12pm the resource is not available and is occupied by work order No. 1.

© 2026 Boyum IT Solutions A/S



Example 2:

Work order No. 1: one routing position with a duration of 6 hours,
work order No. 2: one routing position with a duration of 3 hours and
work order No. 3: one routing position with a duration of 6 hours.

The result of an APS forward scheduling will be:
Work order No. 1 will start on day 1 at 6am,
Work order No. 2 will start on day 1 at 12pm,
Work order 3, even if you have set the same start date/time for the APS forward calculation, will be moved forward to start on day 1 at 3pm but will finish on day 2 at 9am.

Example 3

Work order No. 1: one routing position with a duration of 6 hours,
work order No. 2: one routing position with a duration of 3 hours and
work order No. 3: one routing position with a duration of 6 hours.

ATTENTION: The following example assumes that you are working on the APS Gantt and you have set work order No. 2 manually (by dragging it on the Gantt chart) to start at a specific time (and the operation is also then fixed by APS).
In this example, Work order 3 can start only start on the second day, because between Work order 1 and Work order 2 the free time is not enough.

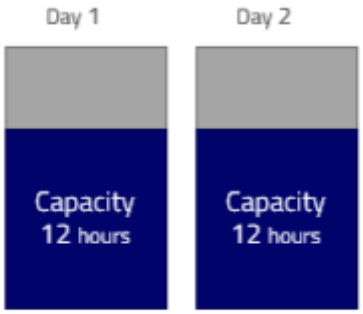
© 2026 Boyum IT Solutions A/S

See Capacity planning - APS, Exploiting the full capacity

Exploit Full Capacity

This method checks the total available capacity on a day for a resource.

Note: It does NOT check when the capacity is available.



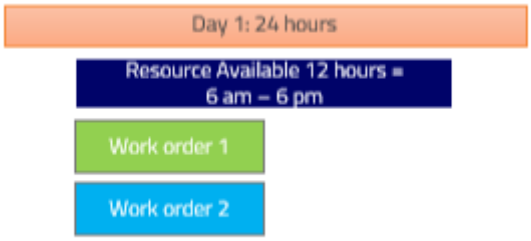
Example 1:

2 work orders, one routing position per work order, each routing position with a total duration of 6 hours. Both work orders are planned in APS with forward scheduling and with the same start date/time.

The result of an APS forward scheduling will be:

Both work orders will have the same start date and time because Work order 1 needs 6 hours and 6 additional hours are available for Work order 2. The start/end time of each work order is not checked by Beas.

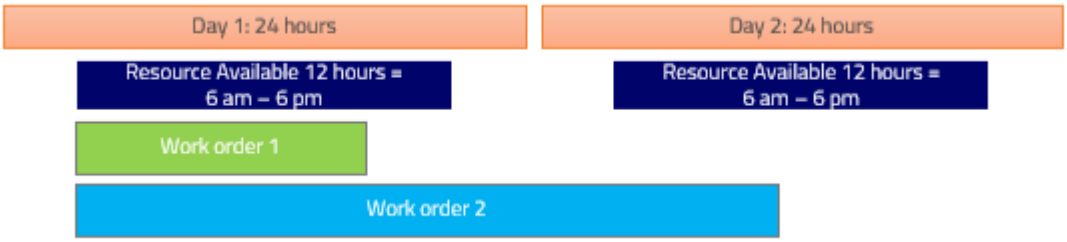
© 2026 Boyum IT Solutions A/S



Example 2:

2 work orders, one routing position per work order, each routing position take 8 hours. We have a total duration of 16 hours for both work orders with a total available capacity of 12 hours on the machines.

The result of an APS forward scheduling will be:

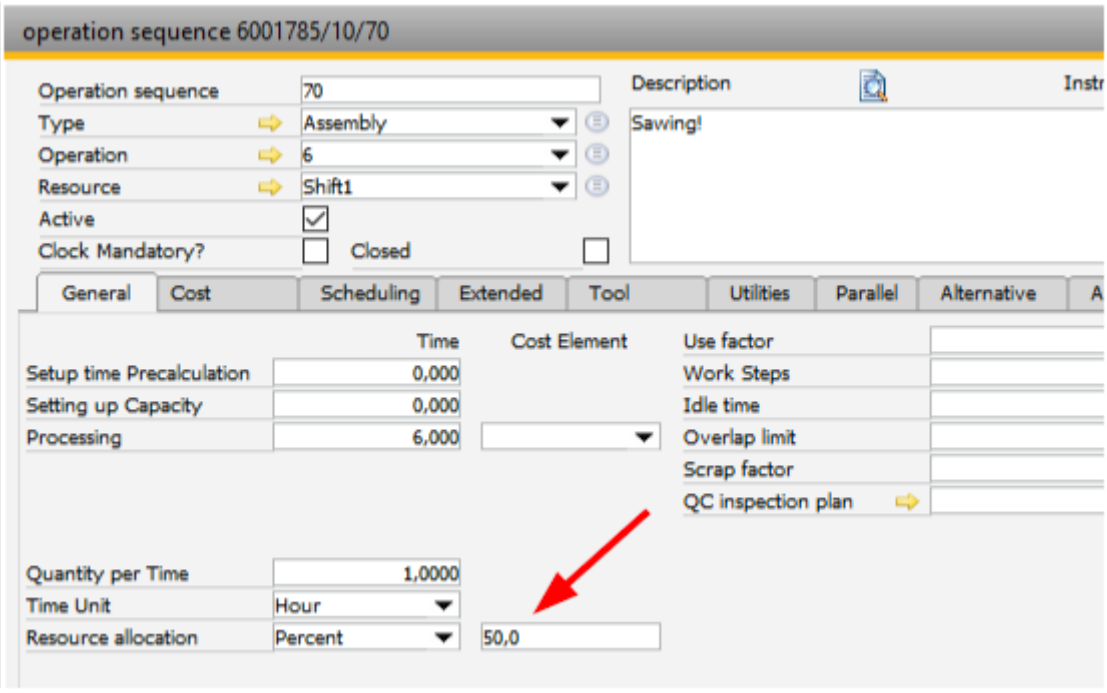


Here again both work orders start at same time but the time span by which Beas assigns the second work order is longer. The routing operation of the second work order will still be 8 hours (as well as the capacity occupied on the resource), but can take only 4 hours from Day 1 and will have to take 4 hours from the second day. This is why you will have representation in the APS GANTT for the second work order that is longer than the first one. If you check the **Resource > Dispatches > Detail**, you will see the calculated time zones for the second work order: Day 1: 6am – 10am (4 hours, as the remainder of the capacity has been taken by work order 1) Day 2: 6am – 10am (the remaining 4 hours of work order 2)

Example 3:

Work order 1 and 2 have been set to start on the same Day by APS with forward scheduling. Each of the work orders has one routing position and each of them lasts for 6 hours. You have assigned a resource allocation of 50% for each of the routing positions.

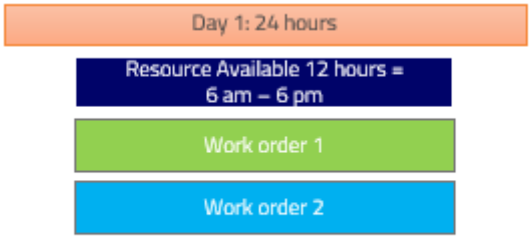
© 2026 Boyum IT Solutions A/S



In this situation, the Detailed planning will not be used.

The result of an APS forward scheduling will be:

The system plans the complete day, but on both work orders it will have the same start date/time, and they will be in parallel because of the 50% setting at the routing position resource allocation. The system will represent both work orders with a longer time span (12 hours each), but each of them will still occupy only 6 hours of resource capacity.



See Capacity planning - APS, Detailed planning

See Capacity planning - APS

© 2026 Boyum IT Solutions A/S

19.2 Backflushing

Backflushing means that with the creation of an order-related time receipt, the material is also posted. This operation has some dependencies.

The prerequisites for material postings during an order-related time receipt are described here. A posting is only performed when a new order-related time receipt is entered, but not when it is changed or canceled.

Material issue for Production

To enable backflushing, the following must be activated: **Configuration Wizard > Production > Material Posting and Reservation > Automatic Material Entry** for **First Operation** or **Last Operation**.

Important: Note the definition of the corresponding operations.

Only those materials are posted whose output method is set to backflushing in their master data. ***See*** **Item master > General tab > Output method** field.

The material is issued at the time of the terminal logoff, or when the time receipt is created. The reported quantity (yield quantity + scrap quantity) * default quantity as per BoM is issued. Fixed quantities are converted accordingly.

Issuing batch and serial number managed items

For batch and serial number managed items, the output method cannot be set to backflushing in the item master. This is prevented by SAP Business One . However, if the option **Configuration Wizard > Production > Material Posting and Reservation > Backflushing > Also Enter Batches** or **Also enter serial numbers** is activated, batch and serial number managed items are also issued. An item-specific output method cannot be configured here.

When batch- or serial number-managed items are backflushed, a new window opens in which the batch numbers or serial numbers must be selected.

Direct operation allocation

If a BoM position is assigned directly to a routing position, this position is backflushed when the time receipt of the allocated routing position is posted (not with the first or last reportable routing position is submitted).

Backflushing from warehouse

Issuing is always performed from the default warehouse of the item, except when a warehouse is specified in the BoM, from which issues should be performed. The warehouse specified in the BoM has priority.

© 2026 Boyum IT Solutions A/S

Backflushing from bin location

The backflushing function is an automatic process, therefore bin location management is not supported.

Backflushing of material positions

If a negative quantity is entered in a BoM position, a material credit is performed for the backflushing process. A negative BoM (dismantling) can also be performed using backflushing. Batches and serial numbers cannot be posted automatically.

Automatic receipt of and assembly

The behavior for receipt of the assembly to be produced is configured in **Configuration Wizard > Production > Valuation and Posting of Assembly > Posting**. The following options are available:

Like Material (Last Operation i.e. Backflushing)	Receipt is issued for time receipt of last reportable routing position at the reported yield quantity. If "first routing position" is configured for material, however, the receipt is performed for the last routing position. Receipt is also issued, if the assembly does not have the "backflush" output method configured in its master data.
No posting	Assembly is not received automatically.
Like Material (only backflushing assemblies)	Receipt is issued on time receipt of the last reportable routing position at the reported yield quantity, but only if the assembly output method is set to "backflush" in its master data.

The receipt is issued to the default warehouse of the assembly, unless a different warehouse is configured in **Configuration Wizard > Production > Valuation and Posting of Assembly > Booking finished items to warehouse**. Bin location management is supported - the bin location is queried after the receipt.

Batch and serial numbers are determined automatically - this is set up in **Configuration Wizard > Production > Valuation and Posting of Assembly > Serial Number / Batch Number** or item specifically in **Item Master > Batch > Batch Determination**.

IMPORTANT: The Close operation sequence automatically FDC parameter is not considered by Backflushing process.

Account setting

Accounts are determined the same way as for the material posting functions in SAP Business One. However, the contra account is always the WIP account of the assembly or, depending on the configuration, the material.

© 2026 Boyum IT Solutions A/S

Also See

Production time administration

Production time receipt

19.3 Batch Generation

Beas can determine batches and serial numbers automatically. This feature, among others, is available in the following functions:

Goods Receipt	Clicking on the orange arrow next to the batch or serial number field generates a new number.
Beas goods receipt	A new batch or serial number is generated automatically if this has not been deactivated.
SBO goods receipt	(Only batches) There is a Next batch number button in the window where the batch numbers are checked and the next number is generated.
Production receipt	When receiving the finished part, a new number is generated. Requirement: The Automatic batch determination option must be activated in the Item master data.

Batch or serial number generation can be set up separately for all areas.

Specifying a batch number template

A template is available to determine the format of the the next number. This template has several configuration options:

1. Using simple decimal (0-9) or alphanumeric (0-9 A-Z) counter systems
2. Using placeholders in the counter system
3. Using free configuration with the extended setup
4. Using a BeasScript function

Simple decimal or alphanumeric configuration

Determines the template for the batch number structure.

xxx	Continuous number.
XXX	Alphanumeric number. This is the default setting.
aaa	Numeric without truncating the number.

© 2026 Boyum IT Solutions A/S

The counter type is determined, by searching the letter x, then a, then X. If an x is found, an a or X would be ignored.
The number of letters determines the number of displayed digits. The characters xxx mean 3 digits. Shorter numbers are filled with initial zeros, longer numbers are truncated, except when "XXX" is used. In this case, the minimum amount is determined, but longer numbers are not truncated.

The structure can be combined with other characters:

`ABX2009-xxxx-V` = `ABX2009-0001-V, ABX2009-0002-V`

Note: Unlike in SAP BusinessOne, the single quote sign (') is not supported as a batch number character.

Windows and counter readings are defined: ***see***

Configuration wizard - Production - Valuation and posting assembly - Batch management / Serial numbers

Materials management - Batch management

Materials management - Goods receipt

Examples:

`xxx`	`001, 002, 003 .... 009, 010, 011`
`x`	`1,2,3,8,9,0,1`
`XX`	`01,02,03,... 09,10,...98,99,100,102`
`aaa`	`001, 002 ... 009, 00A, 00B ... 00Z, 010, 011 ... 019, 01A ... 01Z, 020`
`a`	`1,2,..0,A,B...X,Y,Z,0,1`
`xxX`	results in `01X`, because "xx" is found first
`bbX`	`bb1, bb2, .. bb9, bb10`
`Xxx`	X is not considered as a counter, because "x" is found first Result: `X01, X02..`

Using placeholders

Placeholders can be used in the template, which are then replaced during run time. For production receipt, the „e_belnr_id“ and „e_belpos_id“ variables are available.

Example: `ABX-<e_belnr_id>-<e_belpos_id>-<today,yymm>-xx`

© 2026 Boyum IT Solutions A/S

Placeholders are replaced by work order and the current date.
The work order document is 123, Position is 10, today is October, 20th 2012 and the next counter is 5: `ABX-123-10-1210-5`

Use of "current date"
With `<today>` the current date can be inserted. The format is determined as follows:

Date area

Character	Meaning	Example
`d`	Day number with no leading zero	9
`dd`	Day number with leading zero if appropriate	09
`ddd`	Day name abbreviation	Mon
`dddd`	Day name	Monday
`m`	Month number with no leading zero	6
`mm`	Month number with leading zero if appropriate	06
`mmm`	Month name abbreviation	Jun
`mmmm`	Month name	June
`yy`	Two-digit year	97
`yyyy`	Four-digit year	1997

Examples

Format	Displays
`[red]m/d/yy`	1/30/98 (in red if this is a format for input field)
`d-mmm-yy`	30-Jan-98
`dd-mmmm`	30-January
`mmm-yy`	Jan-98
`dddd, mmm d, yyyy`	Friday, Jan 30, 1998

Time Area

Character	Meaning
`h`	Hour with no leading zero (for example, 1)

© 2026 Boyum IT Solutions A/S

Character	Meaning
hh	Hour with leading zero if appropriate (for example, 01)
m	Minute with no leading zero (must follow h or hh)
mm	Minute with leading zero if appropriate (must follow h or hh)
s	Second with no leading zero (must follow m or mm)
ss	Second with leading zero (must follow m or mm)
ffffff	Microseconds with no leading zeros. You can enter one to six f's; each f represents a fraction of a second (must follow s or ss)
AM/PM	Two-character, upper case abbreviation (AM or PM as appropriate)
am/pm	Two-character, lower case abbreviation (am or pm as appropriate)
A/P	One-character, upper case abbreviation (A or P as appropriate)
a/p	One-character, lower case abbreviation (a or p as appropriate)

Examples

Format	Displays
h:mm AM/PM	9:45 PM
hh:mm A/P	09:45 P
h:mm:ss am/pm	9:45:33 pm
h:mm	21:45
h:mm:ss	21:45:33
h:mm:ss:f	21:45:33:2
h:mm:ss:fff	21:45:33:234
h:mm:ss:ffffff	21:45:33:234567
m/d/yy h:mm	1/30/98 21:45

As a separator for dates: blanks, slash, dot and for time colon can be used.

Example:

<today,yyyymmdd>-<now,HHMM> returns 20241205-1630

<today,yyyy/mm/dd>-<now,HH:MM> returns 2024/12/05-16:30

Extended setup

© 2026 Boyum IT Solutions A/S

In the extended settings, the counter system can be freely configured. It is also possible to insert multiple counters after each other.
As the counting system does not have to be decimal and it may not be possible to convert from decimal to the counter, the default counter statuses cannot be used.

The definition is supplied in curved brackets. Everything outside the curved brackets is fixed.
For example, `ABC{ countdefintion }` results in `ABC000001`.

The parameters in the counter definition are separated by commas.
The counter system is specified by the count command: `count=01234` would result in:
`01,02,03,04,10,11,12,13,14,20 ...`

The following commands are available:

Property	Description
`count`	Counter system for decimal. 0123456789
`count[x]`	Additional counter systems, if a different counter systems are required for specific counter positions. Up to 8 extended definitions are permitted. For example: `count1=ABCD`
`pattern=00000000`	Defines which counter system is used for each character position. For example: pattern`=111000` The first 3 digits use the counter system defined in "`count1`" the digits 4-6 the setting as per the original "`count`" system.

`len=x`	Determines the length of the counter:
	`len=3 001`
	`len=6 000001`
	Up to 8 digits are allowed.

`start=x`	Determines the first counter status.
`setup=x`	Determines the name under which the counter status should be saved.

Examples:

```
ABC{count=0123A,len=3,setup=mycounter1,start=102}
```

© 2026 Boyum IT Solutions A/S

Counts:
ABC002,ABC003,ABC00A,ABC010,ABC011,ABC012,ABC013,ABC01A,ABC020,ABC021,ABC022,ABC023,ABC02A...

```
{count=012,count1=ABC,len=4,pattern=1100,setup=mycounter2,start=AA00}
```

Counts
AA00,AA01,AA02,AA10,AA11,AA12,AA20,AA21,AA22,AB00

- Use Script for generate every type of batch / serial numbers

You can use script language to create batch / serial numbers.
For this use the user events concept from Beas

See
Work order Receipt: Batch and Serial Numbers
Receipt and Receipt for Purchase order: Batch / Serial Number

19.4 Breakdown (Item)

In manufacturing and Beas, breakdown or explosion is the action of breaking apart the Bill of materials for each assembly or sub-assembly into its components. Differentiating between make-to-stock and make-to-order items helps in defining a production strategy. It also defines a combination of scenarios on production planning and execution processes.

The breakdown Variant is defined in **Item Master Data > General tab > Manufacturing Data > Breakdown**.
Note on APS: If no Breakdown method is defined, the item will not be considered correctly in the APS calculation.

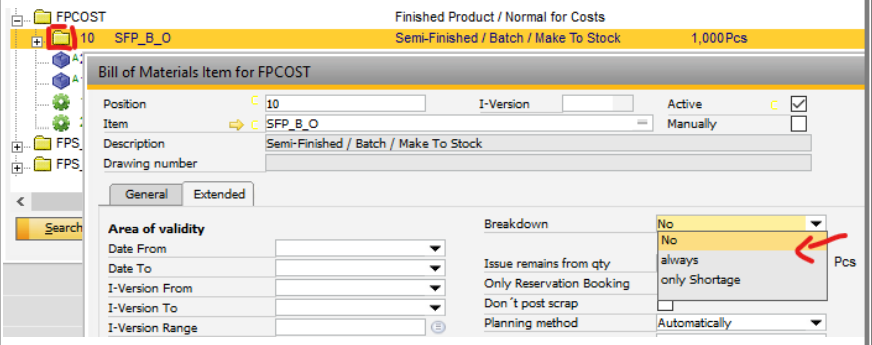
The following Variants are available:

Breakdown	Procurement Method	Description
non breakdown	buy	- Ignores Bill of materials Recommended to be used when the item is a general purchase ("buy") item, which normally has no Bill of materials attached to it. Therefore, this item is considered as a purchase item. In work orders it is used for finished goods with mode of procurement set to buy, Beas considers all BoM positions as purchase items and suggests to create a purchase order, in case there is not enough in stock of that item.

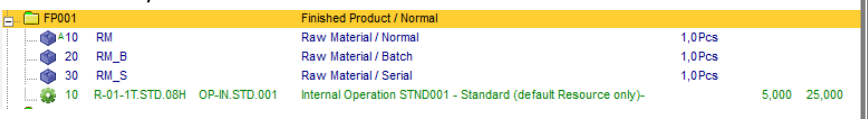
© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		Limitation: When this type of breakdown is used with Produce ("make") items, all information of the Bill of Materials will be ignored.
provision parts	buy	Bill of materials define the provision Items that are included in the purchase item. ***Example***: If you buy an engine from a supplier, and it always comes with a can of motor oil and a gallon of coolant. In this situation, you still need to keep track of how many cans of motor oil and gallons of coolant you have on inventory. The *Provision parts* option is used to define these types of item. This option allows to insert additional items in the bill of materials list so at the moment the goods receipt is issued for the purchase order, Beas suggests and completes the goods receipt for the existing provision parts. For Buy items, MRP generates purchase order recommendations. For Produce items, MRP generates production order recommendations. **Limitation in MRP:** Beas does not calculate MRP Sub-assembly requirements for items defined as "Provision parts". ***see*** Provision parts Goods receipt with provision
storage related	make	for storage related production or order related production This is an assembly for storage- or order-related manufacturing. Sub-assemblies are produced separately or order-related. • You can define a configuration • You can define a short variant • You **cannot** create a precalculation • You can plan stock in MRP

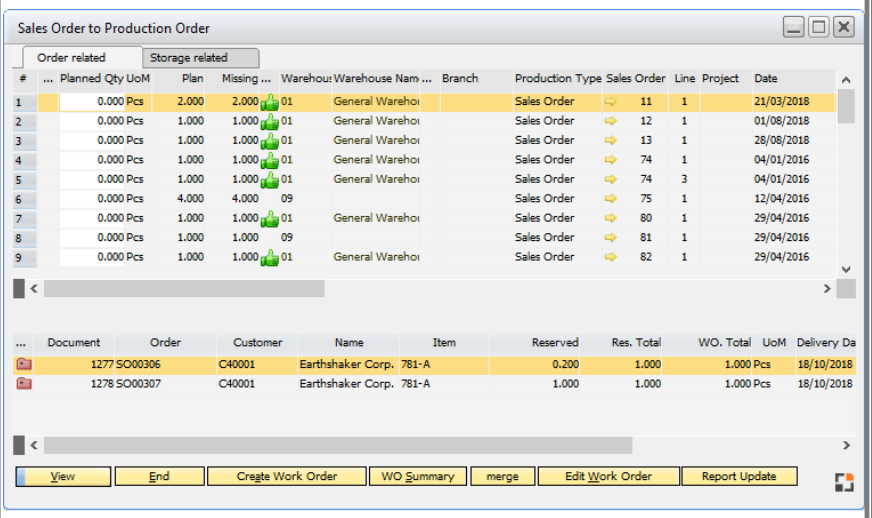
© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		• You can use the produced assembly for other orders Video **Storage-related production** Use MRP for creating a work order. **Order-related production** For order-related production the activation of the reservation system is mandatory. Finished goods Activate Production - Reservation - Receipt reservation only at : always Working with MRP: - Click on the Sales order and create work order for this Sales order Semi-Finished goods Assemblies can be produced order-related, when the respective option was selected in **BOM item > breakdown.**  The setting has no effect when the work order is created by the calculation functionality. The possible settings are: - No: No work order positions will be created for the semi-finished goods - Always: Works exactly like order-related semi-finished goods - Only shortage: Creates order positions only if there is not enough inventory

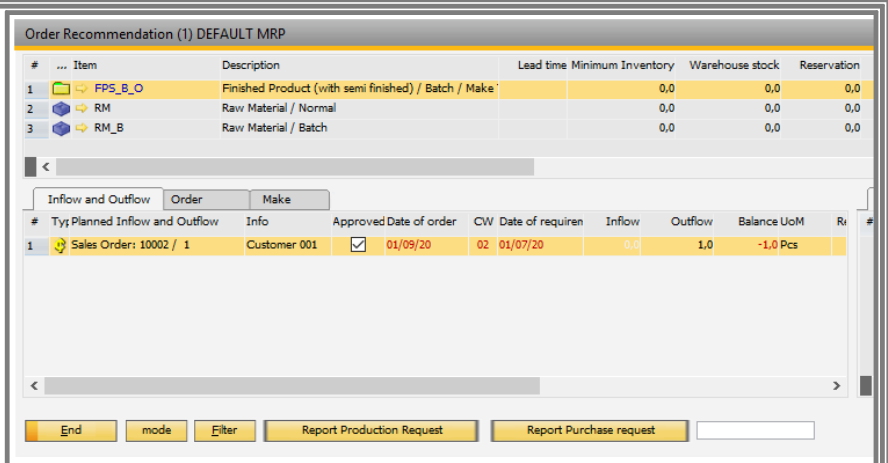
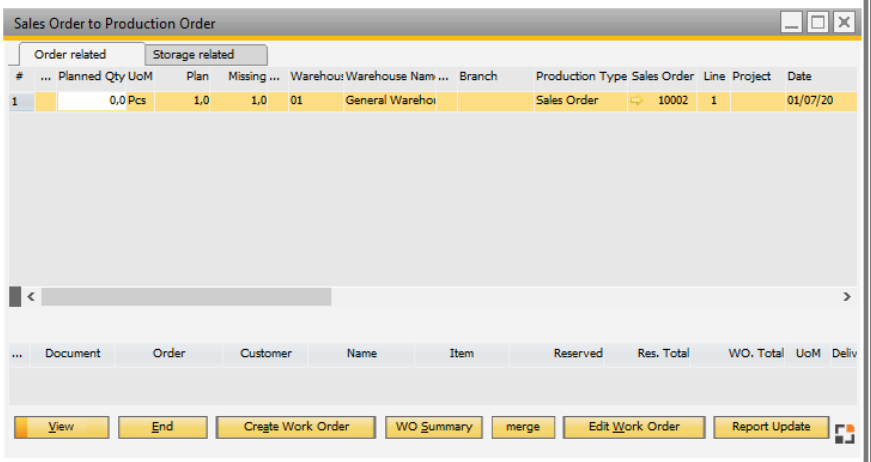
© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		In order recommendation report these assemblies will still be created as stock-related assemblies. ***See*** BoM position - breakdown
order related	make	**only order-related** This is an assembly that is produced by order, that is: The sub-assemblies are produced together with the main assembly. Note: Only order-related! • You can define a configuration in the Sales order. • You can define a short variant in the Sales order. • You can create a precalculation in the Sales order and can change the substructure inside the precalculation. You can use the definition in precalculation for order-related work orders. • You can create an order-related work order. • You **cannot** plan stock in MRP. • You **cannot** use the produced assembly for another order in a simple way. • Maximum structure level: 20 levels. Concept for order-related finished good products An order-related finished product has Bill of Materials and Routing. Use this only for Sales order  In Sales order you can create Precalculation or/and Configurations or/and Short variants. You can change the Bill of Materials/Routing in Precalculation.

© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		Notes: Do not use MRP for planning the request. Do not work with lot size. It is always order-related. **Create work order** Work order created via Sales order to Work order.  You can see order-related items in MRP, but the MRP has a "stock view". It is not possible to plan the requirement for order-related items in the MRP. **MRP** In MRP you can see the sales order and it is possible via double-click to produce order-related. But the MRP is item related. Do not use it to manage order-related requirements.

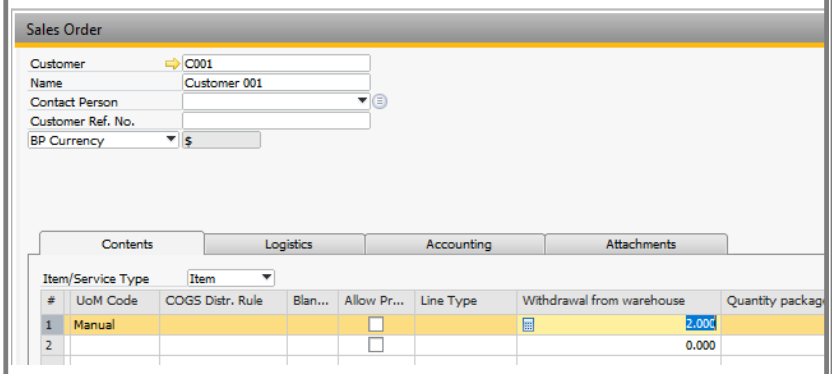
© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		 Use the window "Sales Order to production Order" This window has order-related view. You can create work orders directly and only see entries that do not have enough production orders. Here the system ignores the stock because of the order-related view:  **Special cases** Deliver from stock ***Example:*** You produced an order-related finished goods, but the customer canceled the order. Now the item is on stock. If you have a new sales order with the same product, you can

© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description

define the quantity which you want take from stock in **Sales order > column "Withdrawal from Warehouse"** .



Note:

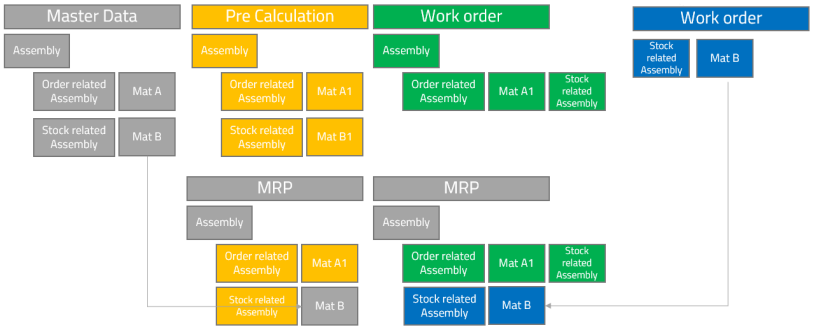
Use this functionality only for special cases. This is not the original idea of order-related production.

Order related Precalculation

In the MRP, order-related assemblies receive their data from the work order and stock-related assemblies from the item master data.

Therefore, the MRP ignores changes made in the precalculation for stock-related assemblies.

In the following video we describe the complete process:

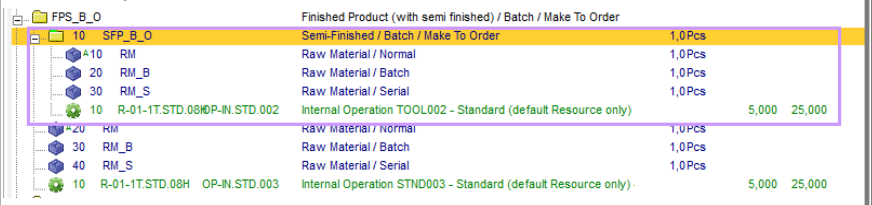


© 2026 Boyum IT Solutions A/S

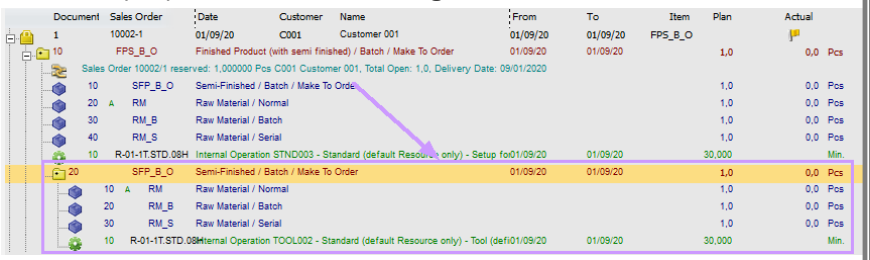
Breakdown	Procurement Method	Description
		Concept order related Semi-Finished items

Use order-related semi-finished products if you want to produce this item only for an order or stock-related finished product.
You can produce the order-related semi-finished product as Finished product for a sales order, but not on stock.
In MRP you can see the requirements for semi-finished product, but normally this does not change the balance.

In the following example you can see the semi-finished product "SFP_B_O", which is part if Finished Product "FPS_B_O"
In the Finished Product the semi-finished product is defined as a Bill of Materials position.



This example produces the following work order:

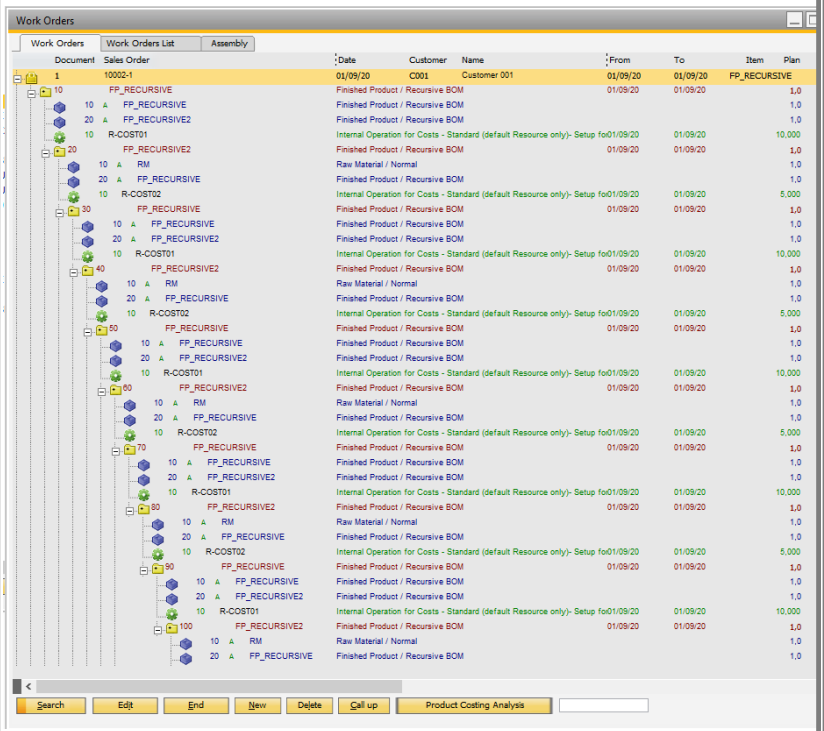


Inside the semi-finished product you can insert additional semi-finished products. Beas supports max. 20 levels.

Recursion: If you insert the same order-related item as Bill of Materials, the system does not break down this order-related semi-finished product. However, it is possible to create a recursive structure.

Example: Recursive structure

© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		In the following example a recursive item is inside the structure: FP_RECURSIVE is inside FP_RECURSIVE. The system display sthis only as material. Inside FP_RECURSIVE2 you can see FP_REURSIVE. In this case it produces a recursion. This produces the following recursive production order: FP_RECURSIVE: no breakdown But inside "FP_RECURSIVE2" there is "FP_RECURSIVE" again, which produces the recursion, but max. up to 20 levels.  Beas displays the following error message:

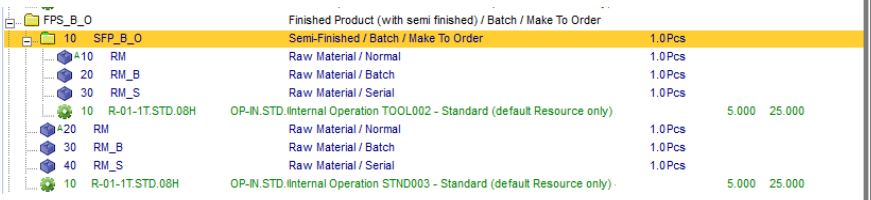
© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		BoM explosion of more than 10 levels not possible! Cancel sub-assembly FP_RECURSIVE

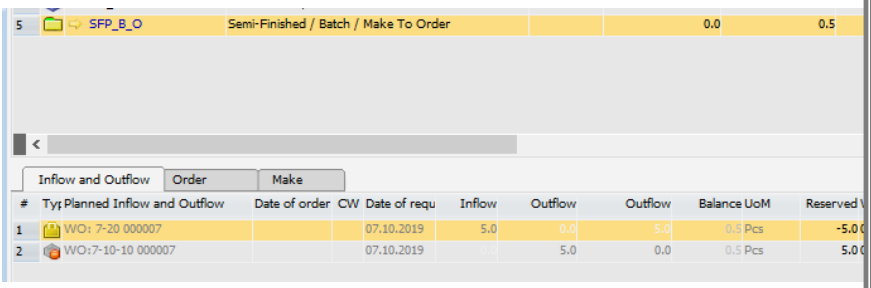
Reservations on storage related orders for order-related assemblies

For the following order-related work order, MRP displays the reservation. As it is an order-related work order, the balance of the reservation is neutral (we porduce 5 which fulfills the sales order -5).

WO:



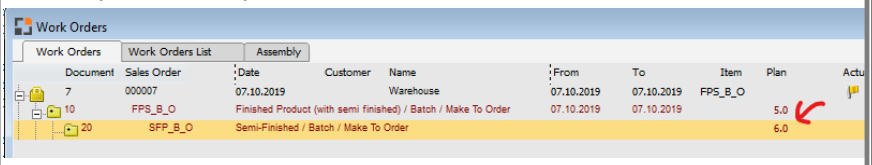
MRP:



The quantity of the work order is manually increased

WO:

Quantity is manually increased from 5-6.

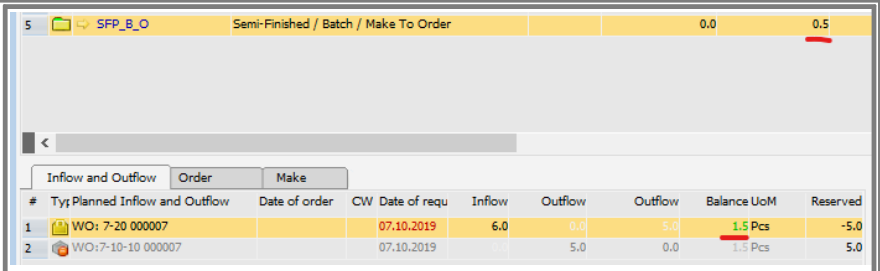


MRP:

In this case stock is produced (there was originally 0.5 in stock).

© 2026 Boyum IT Solutions A/S

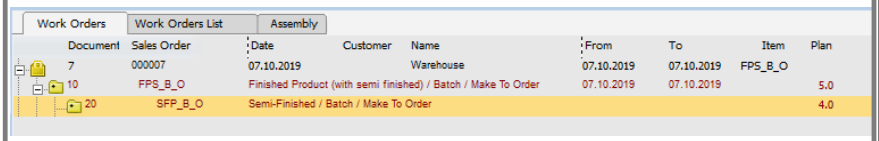
Breakdown	Procurement Method	Description



The quantity of the work order is manually decreased

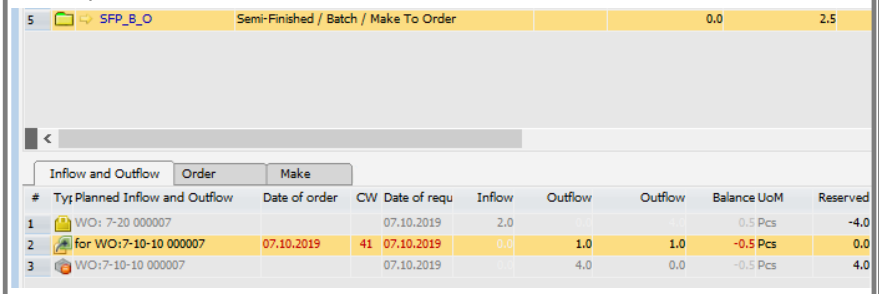
WO:

Quantity is manually decreased from 5-4.



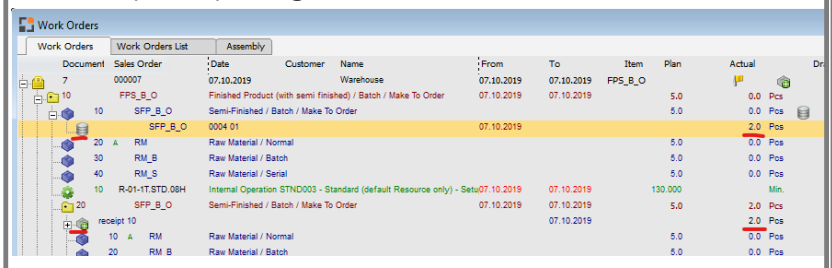
MRP:

An additional line is added to produce the additional required piece and this is produced to stock.



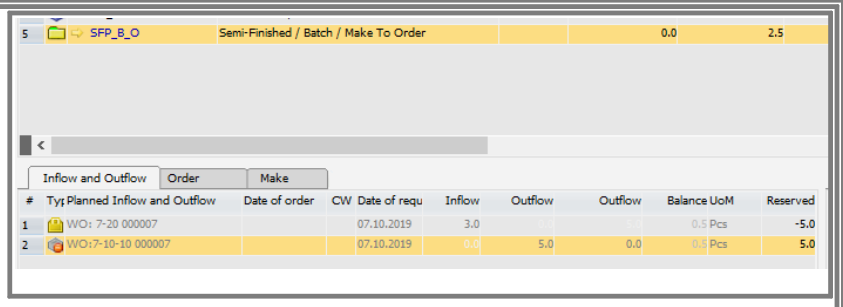
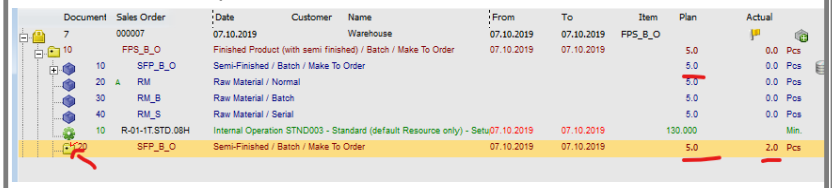
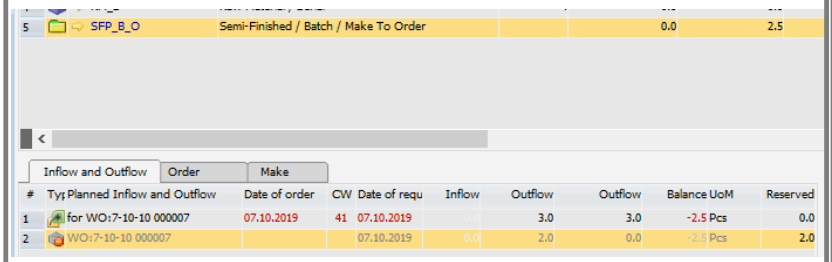
- Special cases
  - Partial postings in order-related sub-assemblies are ignored in the MRP balance calculation

    WO: With partial posting



    MRP:

© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		 Closed sub-position in order-related sub-assemblies If the sub-position is closed and the requirements are not fulfilled, a new work order is created to deliver the rest. This is a storage-related work order. WO: With closed position  MRP: 
phantom assembly group	make	Item is a phantom item This is a phantom assembly, i.e. its routing and Bill of materials are part of the used assembly. If the item has the type "Pseudo item", it behaves like an item with scheduling "Phantom assembly".
set item	make	Define this item as SAP Business One set item

© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		The Sales BoM represent a finished product assembled at the sales stage, that is, the finished product is composed of its component items only when the parent product is actually sold. The component items are stored and tracked individually in the warehouse. For both the Sales BoM, you do not manage the parent product as an inventory item, but rather as a sales item. The components can also be sales and inventory items in their own right. When you create the delivery to dispatch the customer order, the components are backflush issued from inventory. Note The components for Sales BoMs and Assembly BoMs must be sales items. The BoM will be defined in SAP Business One Bill of Material window Use a Sales BoM where there is a fixed combination of components and the customer needs confirmation of each item. The component items cannot be altered or removed from a sales order. Other items cannot be inserted between the parent and component items in the sales order. However, the quantities of the component items can be modified. Example Sharon's Garden Ltd. sells garden tools and outdoor furniture. One of her best sellers is the Metal Table set. This set is composed of one metal and glass table, six metal chairs, and one umbrella. If she chooses the Sales BoM, the table, six chairs and one umbrella, and the Metal Table set all appear in the sales order. She can sell this set with only four chairs, but she cannot introduce a footstool as part of this set in the sales order. If she chooses the Assembly BoM, then only the Metal Table set (the parent product) is listed in the sales order.

© 2026 Boyum IT Solutions A/S

Breakdown	Procurement Method	Description
		In both cases, each of the component items is tracked individually in the inventory. When you create the delivery to dispatch the customer order, the components are automatically issued from the warehouse.
template	make	Define this item as template item The Template BoM is a bundle of items, where the parent product is the first item on the list. It does not act as a BoM once it is added to the sales document, but rather as a list of items brought together at the same time. You can update the quantity of those items, swap items, or delete them in the BOM or the sales order. The components appear below the parent as a list of items in a sales document. Use the Template BOM when you require flexibility in selecting components for a product. ***Example*** Computers can be sold as a standard unit, in which case the Production or Sales BoM is appropriate. However, to customize a sales order, use the Template BoM to allow for DVD burners, speakers, ergonomic keyboards, and so on. The BoM will be defined in SAP Business One Bill of Material window

19.5 Electronic Signature

An electronic signature, is any electronic means that indicates either that a person adopts the contents of an electronic message, or more broadly that the person who claims to have written a message is the one who wrote it (and that the message received is the one that was sent). By comparison, a signature is a stylized script associated with a person. In commerce and the law, a signature on a document is an indication that the person adopts the intentions recorded in the document. Both are comparable to a seal.

Source: Wikipedia

See

QC inspection plan – Release

© 2026 Boyum IT Solutions A/S

Personnel – Logon

19.6 Four eye principle

The Four eye principle or two-man rule is a control mechanism designed to achieve a high level of security for especially critical material or operations. Under this rule all access and actions require the presence of two authorized people at all times.

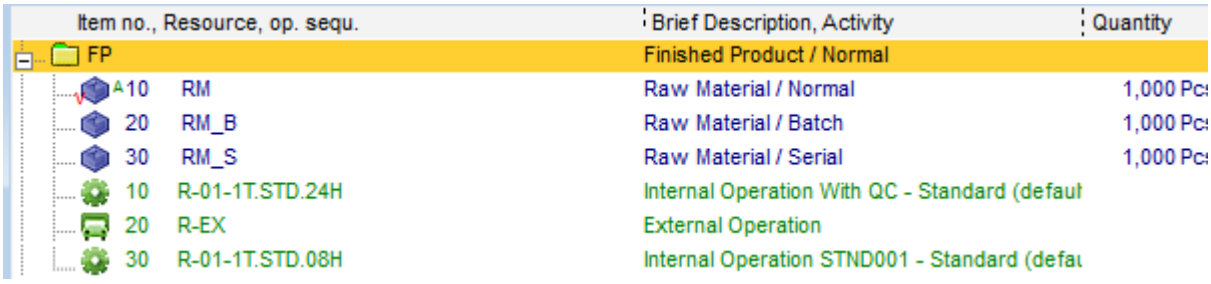
Source: Wikipedia

See QC inspection plan – Release

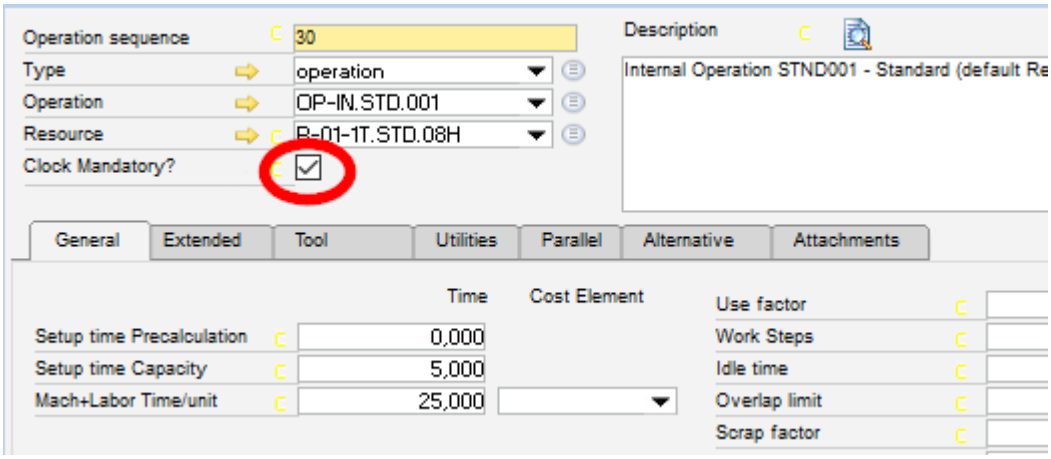
19.7 Last routing position

"Last routing position" is the last routing entry in the Routing plan, in which the flag "Clock mandatory" is active.

Example: Work order with 3 Routing positions



Normally "clock mandatory" is active in all positions.
In this case, Position "30" is the last position.



© 2026 Boyum IT Solutions A/S

> Note: It is not the Position number that defines the order. You can change the order in the Routing list by Drag & Drop.
>
> If the "clock mandatory" is disabled in Position 20 and 30, the position 10 turns out as the first and last operation.

If you close routing position 10 with a time receipt and "close work order position automatically" is activated in the Configuration wizard, the system ignores position 20 and 30 and closes the work order position.

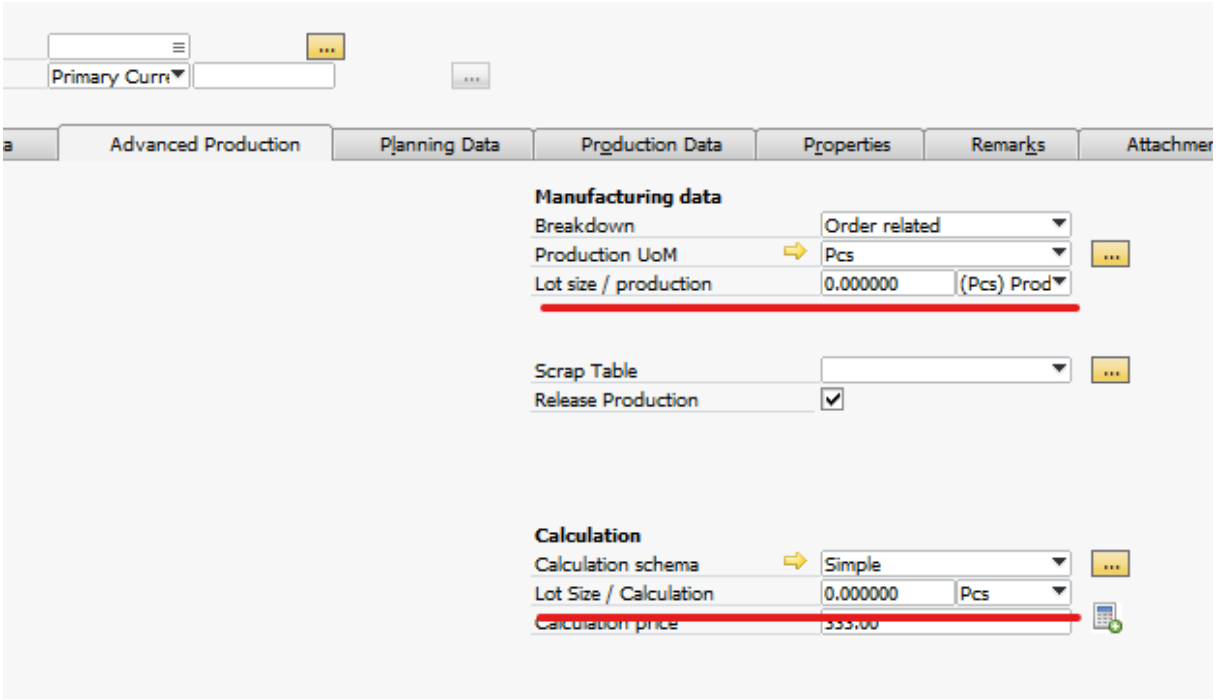
19.8 Lot size

In Beas we have 2 different lot sizes:

Production lot size: Maximum lot size for production (inventory UoM)

Calculation lot size: The average lot size for price calculation, e.g. for using in batch calculation (inventory or production UoM)

See Item Master Data - Advanced Production



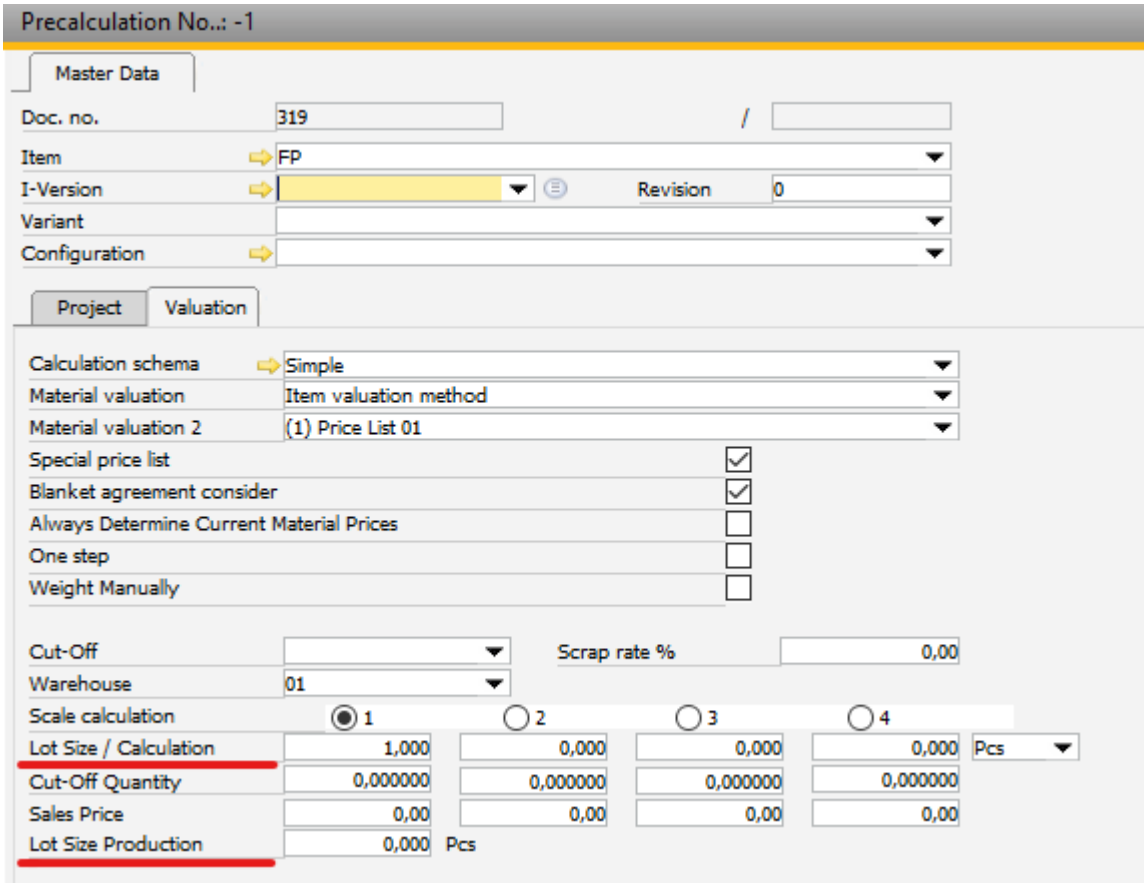
The lot size can be defined in Production UoM or inventory UoM.

Lot size - Precalculation

- "Calculation lot size" is the default lot size for the calculation.

© 2026 Boyum IT Solutions A/S

- "Production lot size" is the maximum lot size and is relevant for the calculation of fix costs.



Window pk_haupt_edit.psr

The production lot size affects:

- Setup times in a Bill of materials position.
- Fixed times (Quantity per = 0) in routing positions.
- Fixed surcharges.
- Purchase prices (special price list).
- Price per lot size

In sub-components the calculation uses the production lot size. If you activate Configuration wizard > Production > Create > Sub-assemblies: Consider production lot size, the system uses the production lot size defined in the sub-component, otherwise the lot size of the main item.

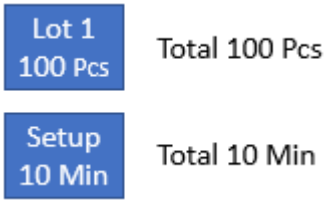
Example:

Routing position 10 Min setup time, 5 Min Mach+Labor time

Lot size calculation: 100, Production: 0 (ignore it)

© 2026 Boyum IT Solutions A/S

```
Cost  = 10 Min + 100* 5 Min = 510 Minutes * cost rate
```



Lot size calculation: 100, Production: 30

In this case we must calculate the production `30 + 30 + 30 + 10 = 4 times`.

```
Cost = 4*10 Min + 100*5 Min = 540 Minutes * cost rate
```

Working with sub-assemblies

If consider Sub Assemblies is activated, the system split the sub-assemblies too

Example:

Production 40 Pcs, Lot size 30 Pcs

Sub assembly is order related, Production lot size = 0 Pcs (no lot size)

This case is a WO position-related process.

If an order-related sub-assembly has its own lot size, the system checks this, as well - but always per production level from the parent item.

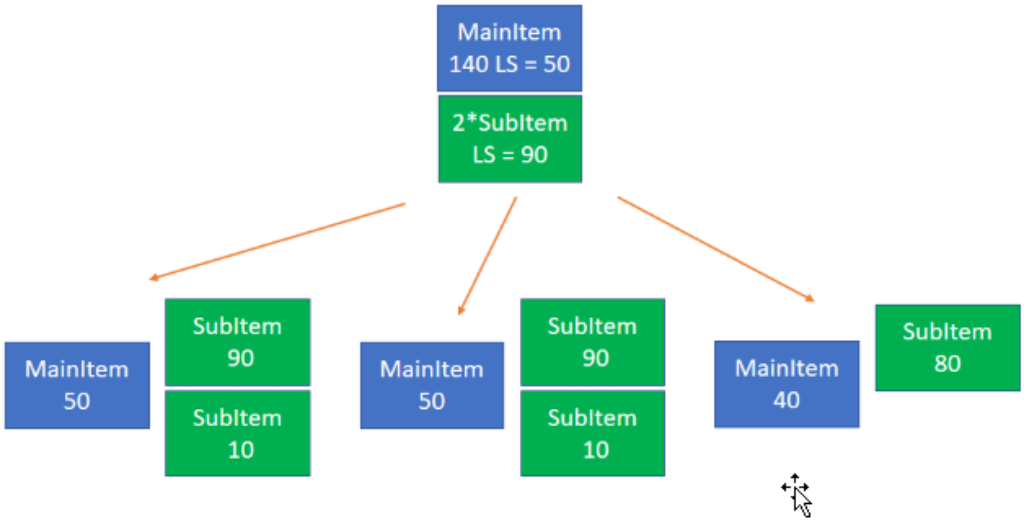
Example : Lot size 20 Pcs

In this case the setup time will be multiplicated with 4 in the sub assembly

© 2026 Boyum IT Solutions A/S

2. Example for order-related sub-assembly:

- Main and sub-item are order related, the lot size of the main item is 50
- We need the sub-assembly 2 times per main item, the lot size of the sub-item is 90
- We want to produce 140 Units of the main item

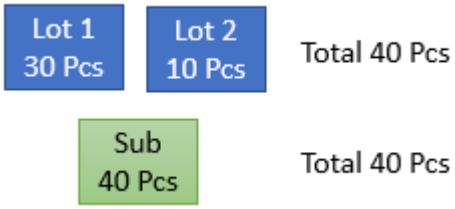


Result:

- We need to produce 3 lots for Main item (50 + 50 + 40)
- For the first and second lot of the main item we need 2 lots of the sub-item (90 + 10)
- For the last lot of the main item we need 1 lot of the sub item (80)

Stock-related

if the sub-assembly is stock-related, the sub-assembly ignores the lot size from the parent assembly:



if the stock related sub-assembly has its own lot size, the system uses it without relation to the lot size of the parent item.

Note:
This is working differently than in Beas 2020.11 or older. If you need the old functionality, you can change this in a user event. ***See*** Script documentation.

© 2026 Boyum IT Solutions A/S

Work order

If the work order is created by "Sales order to Production order", Beas Object, Beas Service Layer or Integration Hub, the system automatically checks the production lot size on main level and in sub-level only if you activate Configuration wizard > Production > Create > Sub-assemblies: Consider production lot size.

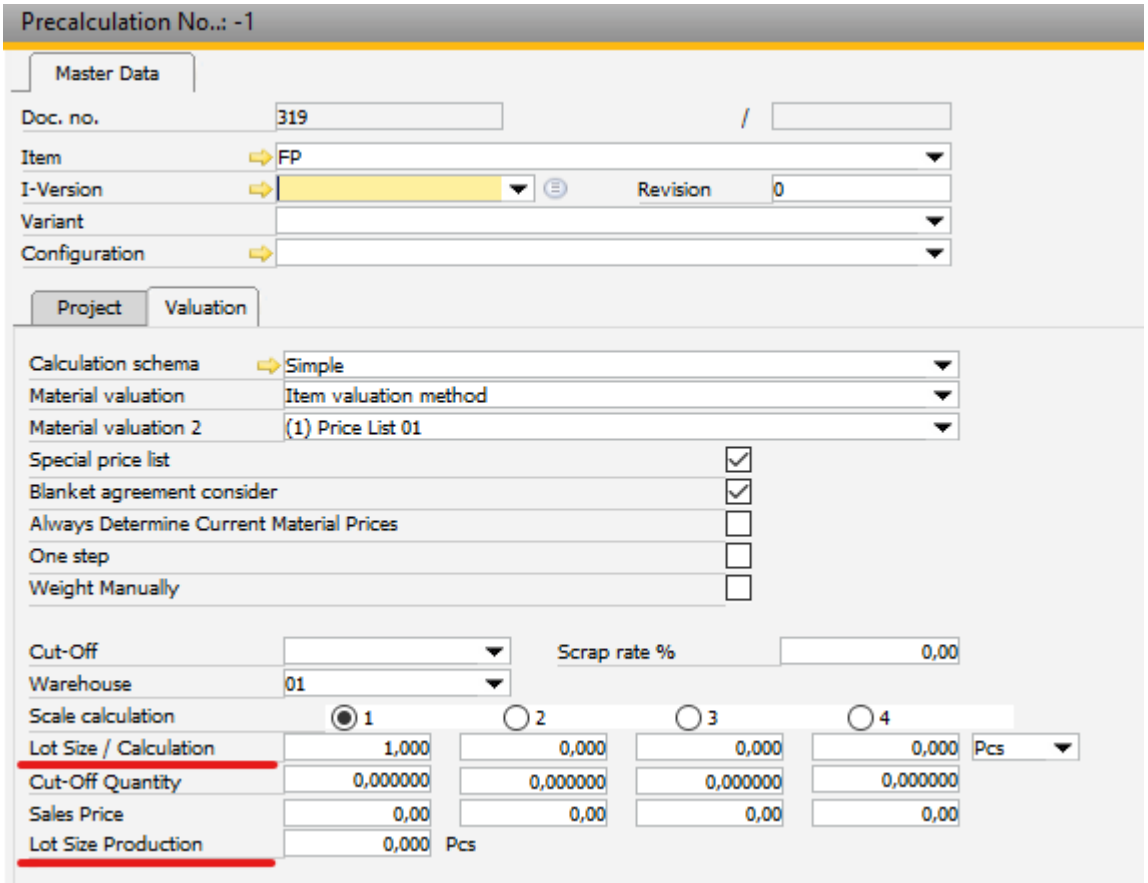
Note: If you activate "Consider Lot size production", the calculation in MRP can take longer.

Working with Lots size

19.8.1 Lot Size - Precalculation

Lot size - Precalculation

- "Calculation lot size" is the default lot size for the calculation.
- "Production lot size" is the maximum lot size and is relevant for the calculation of fix costs.



Window pk_haupt_edit.psr

© 2026 Boyum IT Solutions A/S

The production lot size affects:

- Setup times in a Bill of materials position.
- Fixed times (Quantity per = 0) in routing positions.
- Fixed surcharges.
- Purchase prices (special price list).
- Price per lot size

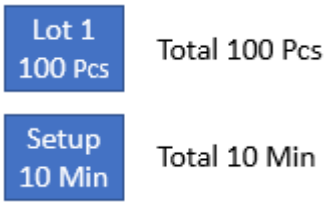
In sub-components the calculation uses the production lot size. If you activate Configuration wizard > Production > Create > Sub-assemblies: Consider production lot size, the system uses the production lot size defined in the sub-component, otherwise the lot size of the main item.

Example:

Routing position 10 Min setup time, 5 Min Mach+Labor time

Lot size calculation: 100, Production: 0 (ignore it)

```
Cost  = 10 Min + 100* 5 Min = 510 Minutes * cost rate
```



Lot size calculation: 100, Production: 30

In this case we must calculate the production `30 + 30 + 30 + 10 = 4 times`.

```
Cost = 4*10 Min + 100*5 Min = 540 Minutes * cost rate
```

Working with sub-assemblies

If consider Sub Assemblies is activated, the system split the sub-assemblies too

Example:

© 2026 Boyum IT Solutions A/S

Production 40 Pcs, Lot size 30 Pcs
Sub assembly is order related, Production lot size = 0 Pcs (no lot size)
This case is a WO position-related process.

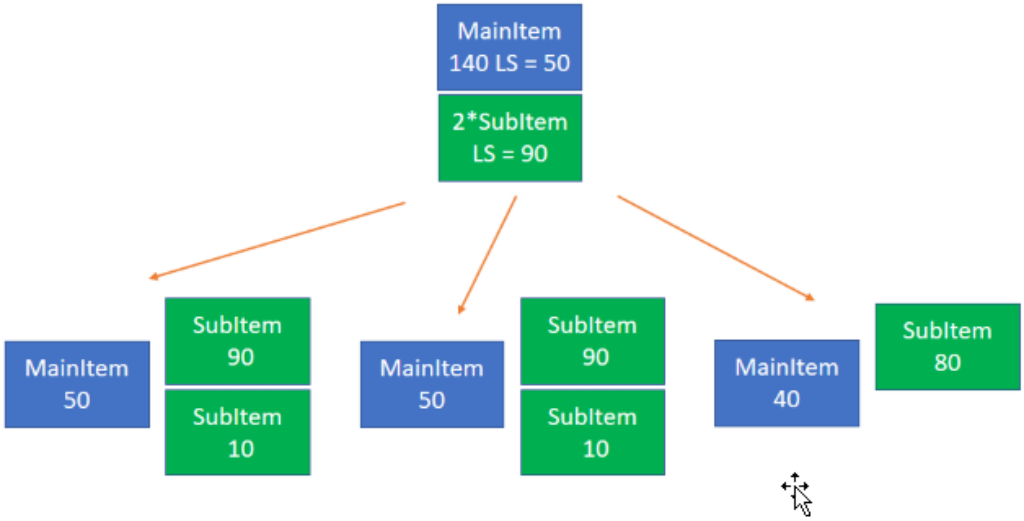
If an order-related sub-assembly has its own lot size, the system checks this, as well - but always per production level from the parent item.

Example : Lot size 20 Pcs

In this case the setup time will be multiplicated with 4 in the sub assembly

2. Example for order-related sub-assembly:

- Main and sub-item are order related, the lot size of the main item is 50
- We need the sub-assembly 2 times per main item, the lot size of the sub-item is 90
- We want to produce 140 Units of the main item



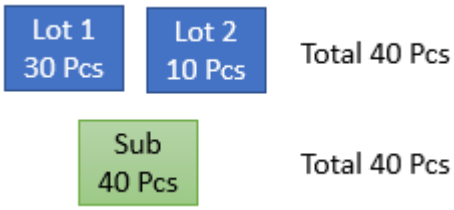
Result:

- We need to produce 3 lots for Main item (50 + 50 + 40)
- For the first and second lot of the main item we need 2 lots of the sub-item (90 + 10)
- For the last lot of the main item we need 1 lot of the sub item (80)

© 2026 Boyum IT Solutions A/S

Stock-related

if the sub-assembly is stock-related, the sub-assembly ignores the lot size from the parent assembly:



if the stock related sub-assembly has its own lot size, the system uses it without relation to the lot size of the parent item.

> Note:
> This is working differently than in Beas 2020.11 or older. If you need the old functionality, you can change this in a user event. ***See*** Script documentation.

19.9 Keyfields

All entries have a key field.

Example: for items: the item code, for Business partner: the card code and so on.

A key field must be a unique key.

Upper/lower letters

HANA checks upper/lower letters. *Example*: FP123 is not fp123.

MSSQL does not check upper/lower letters. *Example*: FP123 is fp123

The system tries to reduce the problem. If FP123 is defined and you insert FP123, the system replaces it automatically to FP123.

Beas does not allow to define the same key words width different upper/lower formats. But the system does not check this in all places.

Special characters

It is only allowed to use the following characters in key fields: `0-9, A-Z, a-z, _!$&/%()[]{}?\*+';:.-^°`

But not Unicode - other special symbols as `' " = ,` or spaces.

© 2026 Boyum IT Solutions A/S

Examples

`NYM4,4` --> wrong

`NYM4.4` --> correct

`NYM 5"` --> wrong

`NYM 5´´` --> correct

Note: You can insert all signs in the entry description, but not in the key field.

19.10 Marginal costs and full costs

Beas supports calculation per marginal costs and full costs.

- Marginal cost

Marginal costs are costs incurred by the production of a unit of measure of a product.

Example

For the production of an article, fixed costs of €100 are incurred, costs for the provision of machines or rent for a production site.

This is referred to as fixed costs.

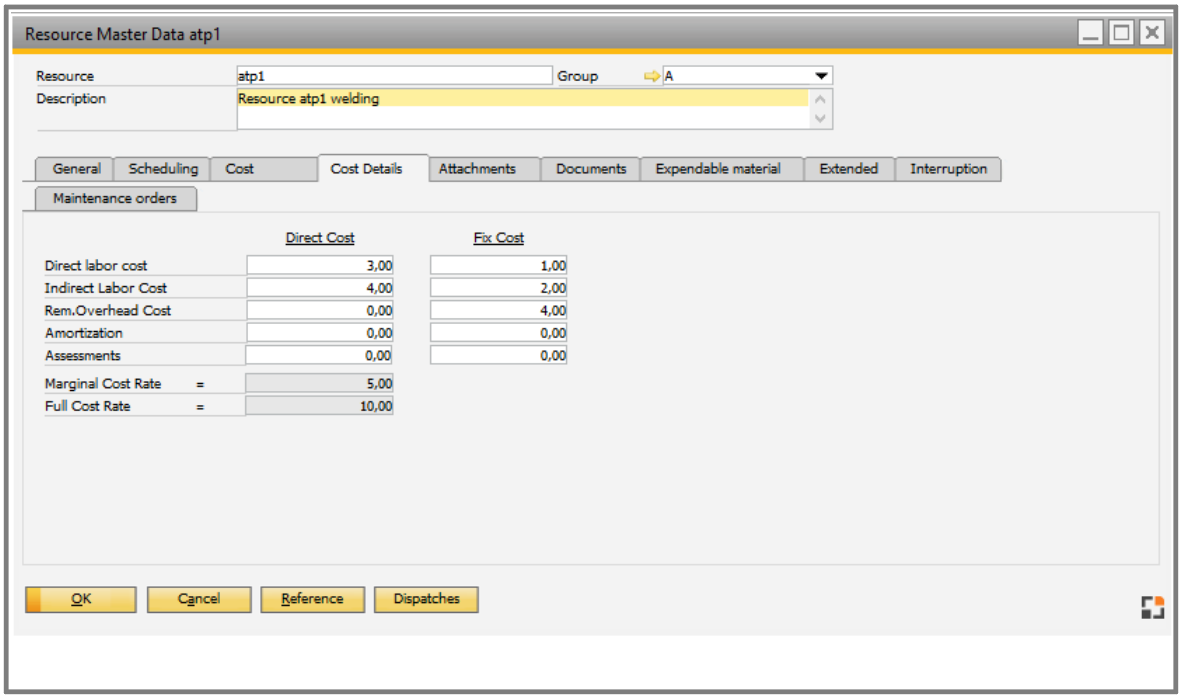
For material and resources there are flexible costs of 5€ per manufactured unit. One unit costs 105 €, two units 110 €. For each unit produced, the total cost increases by 5 EUR. This amount corresponds to the marginal costs.

Note: Setup time is part of Marginal costs.

Fixed costs are e.g. Overhead costs (accounting, electricity, water), Rent for production hall. Set-up times, for example, are not fixed costs, but part of the production process.

In the Resource Master Data **>** **Cost Details tab** you can define the Marginal and Fix costs and can calculate the Full cost.

© 2026 Boyum IT Solutions A/S



Full Cost

Full costs are all costs incurred in a period that are allocated to a service directly or indirectly via a cost center, as far as possible according to the source.

In contrast to direct costs, full costs include all costs that are are created within the framework of the operational provision of services.

In contrast to partial costs, effective costs include all costs that are actually incurred in the production of business activities. Whether and in which cases full costs are to be used is primarily a problem of costing. (Full cost principle, full cost calculation).

Speaking of full costs means that the entire costs of a period are settled up to the cost units of the enterprise. They represent the resulting unit costs. This means that the total unit costs for all cost objects produced or deducted in a period are the same as the total costs of the company. A similar distribution of all costs is carried out in the systems of full cost accounting.

In the Resource Master Data **> Costs tab** you can define the Marginal and Fix costs and can calculate the Full cost. Additionally, it is possible to define all costs in a resource (Cost details), and split costs in 5 different cost types (Time types concept)

In Precalculation and Post-calculation you can easily switch between Marginal- and Full Cost view.

Short description:

MC = Marginal cost

FC = Full Cost

© 2026 Boyum IT Solutions A/S

19.11 MPS

What is MPS:

Master **P**roduction **S**cheduling is a rough production planning procedure and is used in Material Requirements Planning to develop a detailed production plan.

The Master Production Schedule is compiled by a Master Scheduler and takes into account the requirements of the various departments, including sales (delivery times), finance (minimizing inventory) and manufacturing (minimizing set-up times). The program plans the production periods and the purchase of materials taking into account the capacities and resources available to the production system.

Beas supports special forecasts, which are treated differently than usual forecasts. These can be used to integrate MPS features.

MPS scheduling can be realized in Excel or other programs and then imported by DTW into SAP Business One. As an alternative, you can use the forecast management of SAP Business One. Enter MPS-forecasts into the MRP-scenario under "MPS".

For the requirement calculation of MPS-planned items, **outflows**, forecasts and SCM orders are ignored, and planned outflow from the MPS scheduling is used instead.
MPS only takes place if the respective item was marked as an MPS item. This is indicated in item master (Beas) **> Master data > Planning Data > "MPS"**
Resulting entries are marked with MPS.

Special forecasts
Special forecasts are entered in the MRP scenario under MPS.
As opposed to MPS scheduling, the respective items are not marked as MPS items. All planned issues are ignored and not consumed. The peggings therein are marked with the *special forecast* term.

Note: Planned inflow and outflow of work orders and purchase orders are not affected.

19.12 Negative Bill of Material

Sometimes the user needs to indicate that several products are a result of a work order. These products can be:

© 2026 Boyum IT Solutions A/S

- Co-product: Usable product, automatically generated during the production of the main product.
- By-product: A product that occurs incidentally or undesirably during the manufacturing of the main product.
- Dismantling: Disassembling of assemblies and returning components to the inventory.

In these cases, the BoM quantity is entered as a negative entry.

Negative BoM quantity behavior

Procedure or module	Negative Bom quantity is treated as
Order recommendations	Planned receipts.
Backflushing	Posted automatically or manually.
Work order structure	Displayed in the same color as assemblies but with another icon. Displayed positive (as receipt).
Posting	Manually, backflushed or posted in via collective receipt. ***See*** Collective receipt.
Merging work orders	Individual receipts are inserted as negative BoM items and posted correctly to the WIA account.
Sales order	Negative items can be reserved for sales orders.
Pre-calculation	Valued according to Configuration wizard > Precalculation > Value negative quantity.
Post-calculation	Valuation based on post-calculation is not possible.

Order related sub assemblies

A Bill of materials position can be a sub-assembly with own Bill of materials list and Routing position.

How to manage this in the areas:

Procedure or module	Result
Pre-calculation	Bill of materials defined as receipt (negative costs) Valued according to Configuration wizard > Precalculation > Value negative quantity. Routing positions cannot produce negative costs. These are always zero.
Post-calculation	**Planned cost:** Bill of Materials: negative costs

© 2026 Boyum IT Solutions A/S

Procedure or module	Result
	Routing position: zero **Real costs:** Bill of Materials: Sum of all transactions Routing position: Sum of all time receipts. It can only be positive value.

Configuration example for disassembling:

For disassembling, there is no main product. Use a service item (not storage-related) and define the resulting products in the BoM. Expected quantities are entered as negative.

```
Service item
|_ Product 1
|_ Product 2
```

Configuration example for a by-product:

For by-products indicate a main product on top level. This way you can work with off-cut and reuse waste material.

```
Main item
|_ Material
|_ By-product
```

19.13 Overhead costs

Overhead costs mean costs that are attributable to no productive activity such as meetings, repair, cleaning, and so on.

If overhead costs are to be recorded with factory data capture (FDC) , the following setup is available:

- Create a production order, preferably as document 1:
  - Type: Overhead. Enable overhead costs in the production order header (***see*** **Production > Work Order**)
- Create a pseudo-assembly for an item, preferably without inventory management. Behind this assembly all overhead costs are stored as routing (repair, meeting, training, cleaning, and so on).

If there are different types of overhead costs, they can be distributed on different production positions.

If overhead costs need to be reported, the overhead order is used. The operation sequences of an overhead order cannot be confirmed with time receipt.

© 2026 Boyum IT Solutions A/S

The following reports are available :

FDC/ Reports: FDC

19.14 Precalculation

Precalculation is a calculation of prices for products that have not yet been manufactured, in particular for the purpose of drawing up quotations.

Precalculation is a calculation of expected or planned costs based on the activity unit or order. It is always product- or order-specific and, depending on the circumstances of the individual case, is carried out as a division, equivalence number, overhead or joint cost estimate (cost estimate).

Precalculation: Introduction

Precalculation is pure Cost Object Controlling, which calculates the resulting costs before the activity is performed, or which determines how high these may be in backflushed costing. Preliminary costing takes place before a new product is produced, and in make-to-order plans before the quotation is issued. The object of the Precalculation estimate is the cost object created. It can only refer to one activity (make-to-order production), but can also refer to a large number of similar products (series, varieties, or mass production).

The Precalculation estimate should record all costs incurred in the production of the service as completely and correctly as possible and thus serve to determine the cost price, the quotation price and the lower price limit and, for given and accepted prices, the achievable contribution margin.

Since the Precalculation estimate is to calculate the costs of future activities, there are often extensive uncertainties that turn the cost estimate into an estimate (for example, future cost development, uncertainty about development costs, circulation size, etc.). On the basis of work flow charts, work studies (REFA), design drawings, recipes and bills of material, direct costs and sometimes also overhead costs are recorded.

The overhead costs caused by the cost objects cause particular problems in Precalculation costing when they are entered and distributed. Once all costs have been calculated, you can enter the expected cost of goods sold and the bid price using a profit markup. Precalculation can be carried out on the basis of full costs or marginal costs. The lower price limit can only be determined exactly if marginal costs are used. Full cost calculation can be carried out in addition, possibly for the purpose of better comparison with the competing offers.

Example: Precalculation is used for

- Make-to-order production;
- New production of a product;

© 2026 Boyum IT Solutions A/S

- Submission of bids;
- Assessment of market prices (short-term price floor, long-term price floor, long-term price floor)

The following calculation types are available

- Precalculation
- Batch analysis
- Production costing analysis (incl. batch costing analysis)

You can open this from

Item master (Beas)	In the **item master > "Calculation" tab > "Calculation" button**. The calculation is opened and calculated at the calculation size stored in the item master. As the calculation is not stored here, it is purely a view function. All changes in the calculation are discarded when this is closed. The header cannot be changed or edited. ***See*** Item master – Calculation tab
Calculation > Precalculation	You can use **Calculation > Precalculation** to create, edit, view or copy a Precalculation. All options are accessible in this way. A Precalculation can also be assigned to a quotation or order subsequently. All of the changes made there are stored in the calculation. However the master data is not changed. A production document can be created from the calculation.
Quotation or order (SAP)	A "Calculation" button is available in the quotation or order. If you click on this, a new Precalculation is created and saved for this line, and an allocation inserted in the quotation line or order line. Stored variants or product configurations are considered. The calculated price is not automatically transferred to the quotation line or order line. All of the changes made there are stored in the calculation. However the master data is not changed. A production document can be created from the calculation.
Inventory > Stock transactions > Batch Calculation	The batch calculation can be used to calculate multiple items and the result can be stored in a price list. The calculation itself is not displayed here. The result can be called in the item master. ***See*** Batch-calculation

Basic structure of a calculation, Calculation schema

© 2026 Boyum IT Solutions A/S

A standard calculation is structured as follows:

	Material costs according to Bill of materials
+	Cost of external operation
+	Indirect material costs (according to material group)
=	Material Costs
	Manufacturing costs according to routing
+	Production overhead in %
=	Non Material Mfg Cost
=	Production Cost
+	Shipping costs, administration, sales
=	Cost of Sales
+	Profit Margin
=	Net Selling Price
+	Discount
=	Sales Price

This standard structure can be expanded and modified as desired and is used by all calculation systems. It is possible to change this calculation schema (***see*** calculation schema)

- The Beas Precalculation calculate per Marginal and Full Costs

Beas supports calculation per marginal costs and full costs.

- Marginal cost

Marginal costs are costs incurred by the production of a unit of measure of a product.

Example

For the production of an article, fixed costs of €100 are incurred, costs for the provision of machines or rent for a production site.

This is referred to as fixed costs.

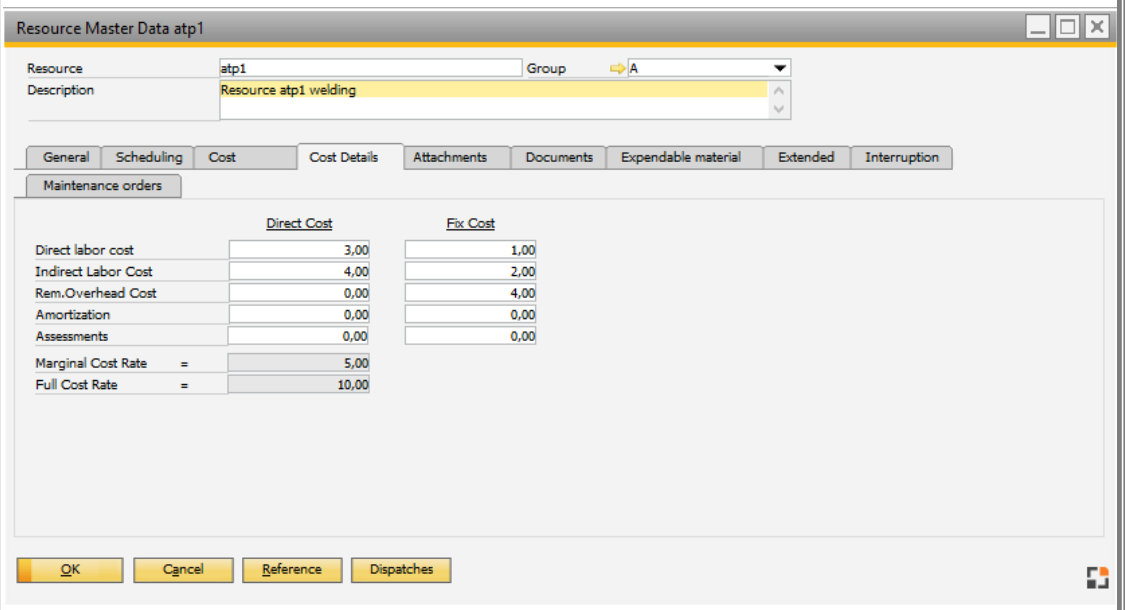
For material and resources there are flexible costs of 5€ per manufactured unit. One unit costs 105 €, two units 110 €. For each unit produced, the total cost increases by 5 EUR. This amount corresponds to the marginal costs.

© 2026 Boyum IT Solutions A/S

Note: Setup time is part of Marginal costs.

Fixed costs are e.g. Overhead costs (accounting, electricity, water), Rent for production hall. Set-up times, for example, are not fixed costs, but part of the production process.

In the Resource Master Data > **Cost Details tab** you can define the Marginal and Fix costs and can calculate the Full cost.



Full Cost

Full costs are all costs incurred in a period that are allocated to a service directly or indirectly via a cost center, as far as possible according to the source.

In contrast to direct costs, full costs include all costs that are are created within the framework of the operational provision of services.

In contrast to partial costs, effective costs include all costs that are actually incurred in the production of business activities. Whether and in which cases full costs are to be used is primarily a problem of costing. (Full cost principle, full cost calculation).

Speaking of full costs means that the entire costs of a period are settled up to the cost units of the enterprise. They represent the resulting unit costs. This means that the total unit costs for all cost objects produced or deducted in a period are the same as the total costs of the company. A similar distribution of all costs is carried out in the systems of full cost accounting.

© 2026 Boyum IT Solutions A/S

In the Resource Master Data > **Costs tab** you can define the Marginal and Fix costs and can calculate the Full cost. Additionally, it is possible to define all costs in a resource (Cost details), and split costs in 5 different cost types (Time types concept)

In Precalculation and Post-calculation you can easily switch between Marginal- and Full Cost view.

Short description:
MC = Marginal cost
FC = Full Cost

- Calculated Quantity, View per Quantity

The calculation can calculate up to 4 different quantities in one time
For Material price it is possible to define up to 8 different prices related to needed quantity for one item. Price lists, special price lists supported
Assembly Lot size in sub positions supported. See Lot size
It is possible to display the calculation in any Lot size (example: Produce 100 Pcs, but display all Quantities / Prices per 1.
See Lot Size and View per

It is possible to calculate every semi-finished product in one calculation. ***See*** Extended view

see

Tool costs
Webinar (2011) Price valuation, Batch Calculation, Process Sales order - Calculation - Work order
Function Use always actual price
Calculation per assembly webinar

See

Structure windows
Precalculation – Extended view
Calculation schema
Cost types
Cost type groups

19.15 Post-calculation

Beas includes a flexible post-calculation function with the following features:

- Calculation of accrued costs

© 2026 Boyum IT Solutions A/S

- Projection
- Calculation of planned costs
- Calculation of marginal and full costs
- Support of calculation schema
- Various valuation methods
- View results in list or as a structure
- Valuation of assemblies

Type	Description
Visual	Structured view of the post-calculation (concurring calculation, comparison of plan/target projection). **Production > Post-calculation**
Batch calculation	Post-calculation of several work orders at the same time. Results are saved in lists and there is no structure information available. **Production > Post-calculation**
Valuation	With the respective setting, post-calculation can be used for valuing the assemblies to be posted in. ***See*** Configuration wizard > Production > Valuation of assembly.

Differences compared to pre-calculation:

Function	Pre-calculation	Post-calculation
Calculation of tools costs	available	not available
Extended resource cost rates	not available	available

Also see:

Batch post-calculation

Projection of actual costs

WO post-calculation

Configuration Wizard

Product cost determination

Webinar: Financial accounting in beas Manufacturing

© 2026 Boyum IT Solutions A/S

19.15.1 Standard costs method

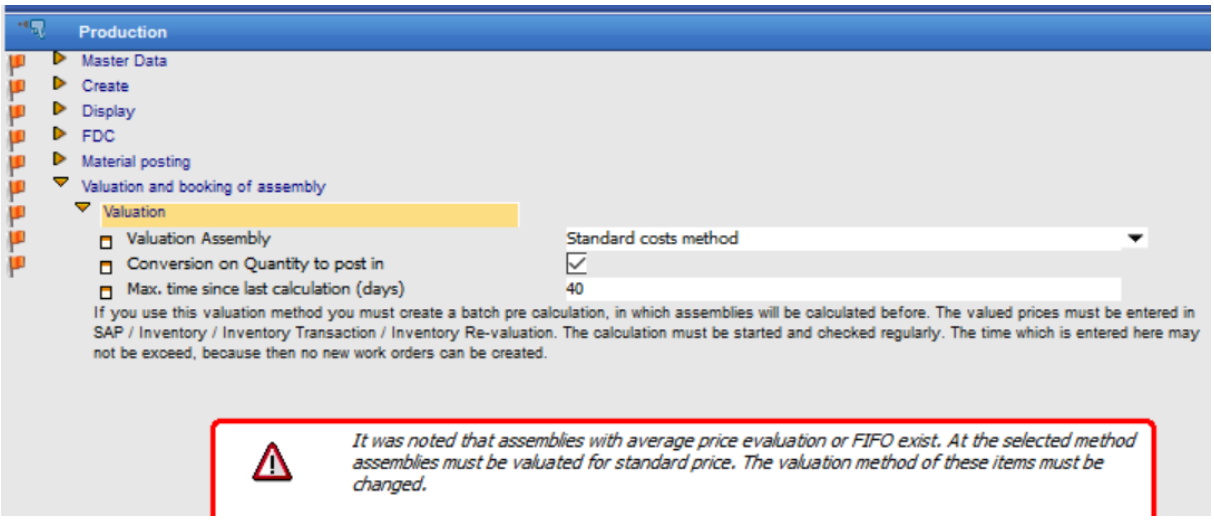
Using the standard cost method, the total value and the value of the parts of an assembly can be identified, such as materials, manufacturing costs, tool costs, or other surcharge costs. Standard cost means, that these values are not dependent on the volume of the production, only the budget figures are taken into account.

The standard cost method involves an entire workflow:

- Pre-calculation via batch pre-calculation
- Pricing based on the pre-calculation
- Copy of evaluation into the work order, including the calculation scheme. The Work order is properly linked to the pre-calculation
- Postings are performed with the current standard cost rate

Configuration Wizard > Production > Valuation and booking of the assembly > Valuation > Valuation of the assembly by "standard cost method"

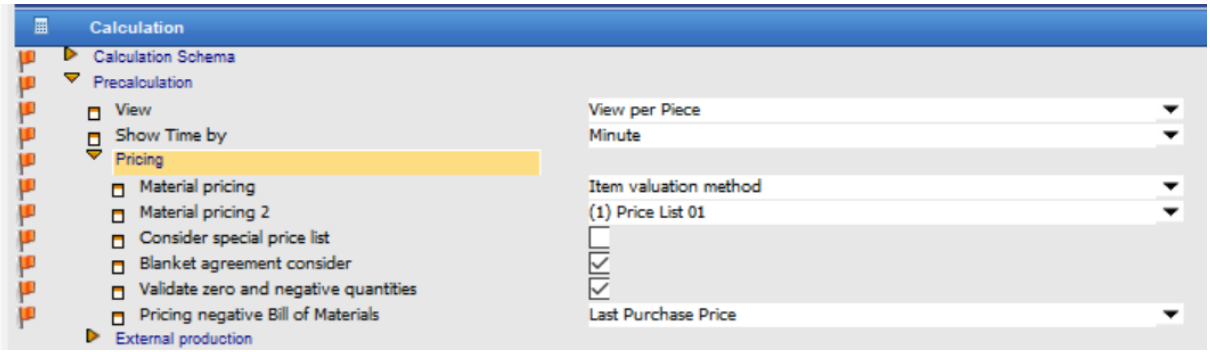
The *Max time for last calculation* field is displayed. This is the update interval for batch calculations. If the entered time is exceeded, no work orders can be created.



A correctly set pre-calculation valuation method is crucial. Set to "Item valuation". Set all items to "standard price".

Configuration Wizard > Calculation > Precalculation > Material pricing to "Item valuation method"

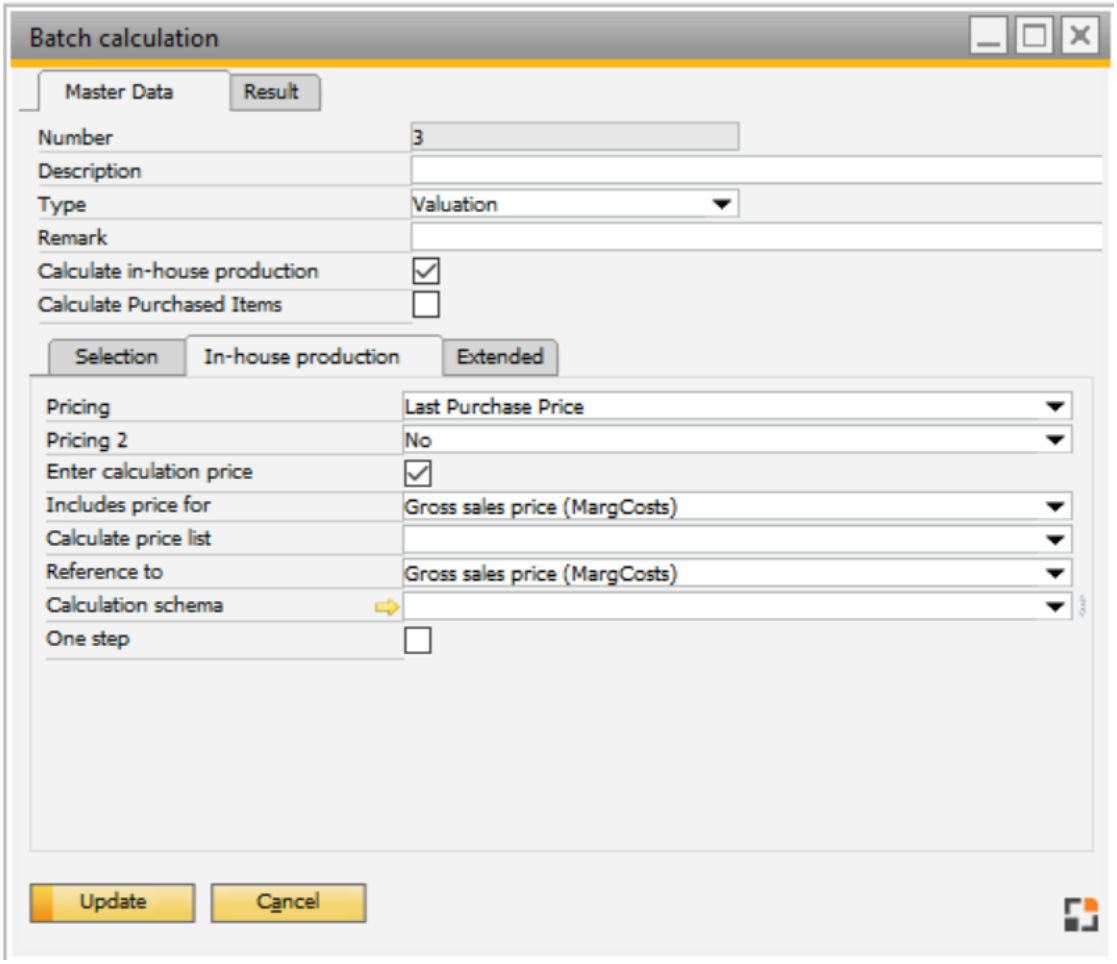
© 2026 Boyum IT Solutions A/S



Inventory> Inventory Transactions > Batch calculation

Setup a calculation for calculating standard costs

The price list or price calculation does not need to be filled. Select the desired evaluation method in *Pricing* and *Enter calculation price*, and the type of pricing procedure. One step evaluation can be enabled for standard cost.



© 2026 Boyum IT Solutions A/S

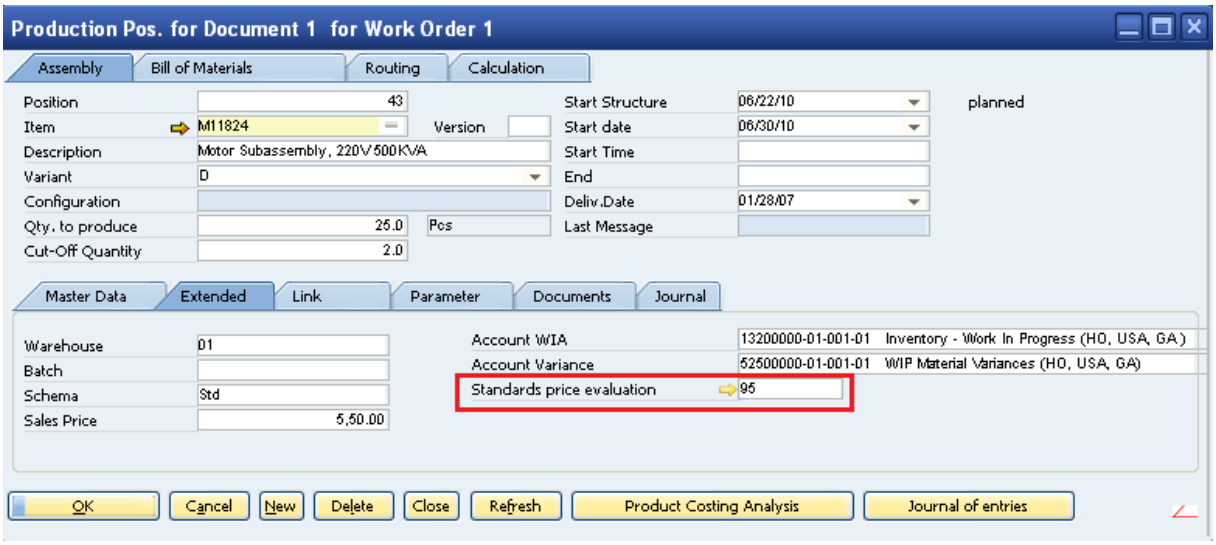
The defined calculation should be performed regularly and the update interval can be set in the Configuration Wizard. After calculating, change to the results tab and perform an inventory revaluation.

Note: If the price per warehouse is set, the batch calculation needs to be performed per warehouse. ***See*** Batch-calculation.

Connecting to a work order

All the work orders that are being created for the items, refer to the calculated standard costs. The connection to the standard costs calculation is available in:

Production assembly > Assembly tab > Extended >Standard price evaluation.



Valuation of assembly – Standard cost method

Concept: Valuation of assemblies

WO positions – Item

Batch-calculation – Standard costs

Affected database fields:

The following fields are filled:

BEAS_FTPOS.STANDARDCOST_NR = relates to the last calculation

BEAS_FTPOS.SCHEMA_ID = used schema in this calculation

BEAS_OITM_CALCPRICE = calculation result

BEAS_PK_BATCHKALK_HEADER = calculation definitions

© 2026 Boyum IT Solutions A/S

19.15.2 Projection of actual costs

Post-calculation offers a function to calculate the expected costs of a given quantity based on the previously reported quantities. Costs for material, operations and quantity with depending surcharges are calculated.

Example:

Operation with costs of 2€/Minute

Planned quantity: 10 pcs

	without projection	**with projection for 1 piece**	**with projection for 10 pieces**
1 minute, 0 pieces reported	2 €	0 €	0 €
1 minute, 1 piece reported	2 €	2 €	20 €
5 minutes, 2 pieces reported	10 €	5 €	50 €

This function is useful for actual costs evaluation methods with partial postings.

Example:

1. Operation planned: 10 minutes, costs 2€/minute

2. Operation planned: 10 minutes, costs 2€/minute

Planned 10 pieces, Partial completion 5 pieces

Planned costs: 1. operation 20 €, 2. operation 20 € = 40 = 4 € per piece

	without projection	**with projection**
1. operation: 10 minutes, 10 pieces reported 2. operation: 10 minutes, 5 pieces reported	20 € + 20 € = 40 € : 5 = 8 €/Piece	10 € + 10 € = 20 € : 5 = 4 €/piece
1. operation: 10 minutes, 10 pieces reported 2. operation: 10 minutes, 10 pieces reported	20 € + 20 € = 40 € - 40 € (of first posting) = 10 € : 5 = 2 €/pieces	20 € + 20 € = 40 € : 10 = 4 €/piece

© 2026 Boyum IT Solutions A/S

This example shows the difficulties of partial postings without projection. The first 5 pieces are valued at 6€, the next 5 pieces at 2€. In certain configurations even negative evaluations are possible.

Material evaluation example:
A BoM item has a requirement of 1 per 1 assembly and a value of 3€
Production quantity = 10

	Without projection	**With projection**
Material issue total 10 pcs	10 * 3 = 30€	10 * 3 = 30€
first partial posting 1 Pc	Posting 30€	Conversion to planned quantity, in this case 1/10 = Factor 0,1 30€ * 0,1 = 3€
second partial posting 1 Pc	Posting 30€ - already posted = 30€ = 0€ !	Conversion to planned quantity, in this case 1/10 = Factor 0,1 30€ * 0,1 = 3€
last posting and order completion	Posting 30€ - already posted= 30€ = 0€ !	Not the projection but the accrued costs are used. 30 € - already posted = (3€ + 3€ = 6€) 24 €

Webinar Product Cost determination from 2017/06, Part "Quantity Projection"
Post-calculation – Concepts

Example: Projection of actual costs

19.16 Pricing

Pricing types
Valuation at postings
WIP accounts

© 2026 Boyum IT Solutions A/S

19.16.1 Pricing types

Various pricing types can be set up in the Configuration wizard, in Pre-calculation and Post-calculation.

Valuation method	Area	Description
Posting price	Post-calculation	The actual posted price is summarized. If a foreign currency was used, it is converted at the moment of posting. If another item was posted than what is specified in the BoM, its posting price will not be considered for pricing. In Planned costs, the last posted price of the BoM is used.
Precalculation	Pre-calculation	Corresponds to the price entered in the production BoM item. This is to the price of the pre-calculation from which the work order was generated or according to the pricing, which was set up in **Configuration Wizard > Calcualtion > Precalcualtion**. The price is determined at the moment that the work order is created. In a production BoM item, the price is visible only if **Production > View > BOM > Prices changeable** is enabled.
Last purchase price	all	Corresponds to the price according to SAP Business One – last purchase price. All types of inflow are considered (credit vouchers, manual postings). If the price is stored in foreign currency, it is converted at the rate of the last goods movement.
Last valued price	all	In SAP Business One **> Report selection > Warehouse management > Stock valuation Simulation** a price can be calculated with different methods. The valuation method refers to the price determined there.
Calculation price	all	Corresponds to the price in Beas **Item master > Calculation > Calculation price**. It can be calculated regularly using batch precalculation, and then can be used as template.
Source Item - Actual cost	QC Transfer	The system reads the price from the issue document of the original Item. **Note:** this price only applies when QC Transfer > document type "Issue + Receipt" was selected.
Source Item - Price from Entry	QC Transfer	The system applies the price of the last entry of the original. **Note:** this price only applies when QC Transfer > document type "Issue + Receipt" was selected.

© 2026 Boyum IT Solutions A/S

Item valuation method	all	Valued at the item valuation price. **Note**: With the FiFo or Serial / Batch valuation method, an average price valuation of all goods on stock is performed. Fore more information ***see***: Item master – Valuation method. When applying Batch split with serial/batch valuation method, consider that Goods issues will be created according to the SAP serial/batch valuation method. However, Goods receipts are generated according to average price valuation. ***Example:*** An Item has 2 batches BN001 - 10 units x 10€ = 100€ BN002 - 10 units x 5€ = 50€ **Using the Batch split function:** Split 5 units of BN001 to BN002 (the system issues 5 units of BN001, then receipts 5 units of BN002) Cost of the goods issues of BN001 is calculated by SAP (using batch/serial valuation) as 5 units x 10€ = 50€ Cost of the goods receipt of BN002 is calculated as average price of all batches in stock at the moment the goods receipt is going to be created. BN001 5 units x 10€ = 50€ BN002 10 units x 5€ = 50€ Cost average at the goods receipt is = (50 + 50) / 15 = 6.66666666€
Price list	all	The price is according to the selected price list. Price list extensions are considered. Details:

© 2026 Boyum IT Solutions A/S

If the price is stored in a foreign currency, it is converted at the daily exchange rate to the local currency.
A gross price list is considered only in the goods receipt, as well as for posting transactions. In pre-calculation and post-calculation items may not be valued with a gross price list.

Note: Beas only supports price list with numbers 1–99.
Price lists with internal id > 99 are not supported.

Note: Beas supports Item Unit Groups in the following way:

Price list: last purchase price

(Beas 2022.09)

Item without Unit Groups always takes price in Inventory UoM.

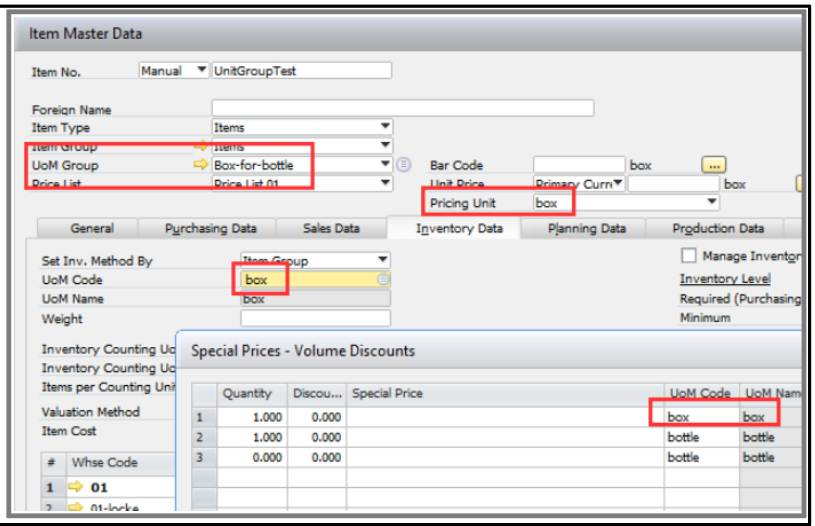
Item with Unit Groups:
In the Item Master data you can define the Purchase Unit, Pricing unit and Inventory unit.
You can create a purchase order in many different UoMs and SAP saves the last purchase price for every UoM separately.
This means: You can have many different last purchase prices.

Beas supports price definition in a different unit of measure than the inventory unit. *(Beas 2025.04)*
If a last purchase price exists in the pricing unit of this item, it has higher priority. Beas converts this price automatically to price in Inventory unit.

Other price lists, special price lists

Beas does not support property "Pricing Unit". The system ignores all special price lists if the pricing Unit is not the stock unit.
Beas reads a price from a price list or special price list only if Item-Pricing Unit, Item-UoM Code and Price list UoM Code are the same.

© 2026 Boyum IT Solutions A/S

		
Last price from goods receipt	all	Relates to Purchase – Goods receipt. If there is no goods receipt, the last purchase price is used as reference (conversion at daily rate). If there is no price, the item is valued at 0.

Special case: Precalculation – consider special price lists

If the *consider special price lists* option is enabled in the Configuration Wizard, the pricing is extended:

- If there is a special price list for a supplier, it is used as a reference.
- If there is no special price list for a supplier, then if the supplier has their own standard price list, it is used as a reference.
- If none of the above is true, the pricing is done according to the settings.

This refers to the Precalculation and creating the work order, which uses the same default as a reference.

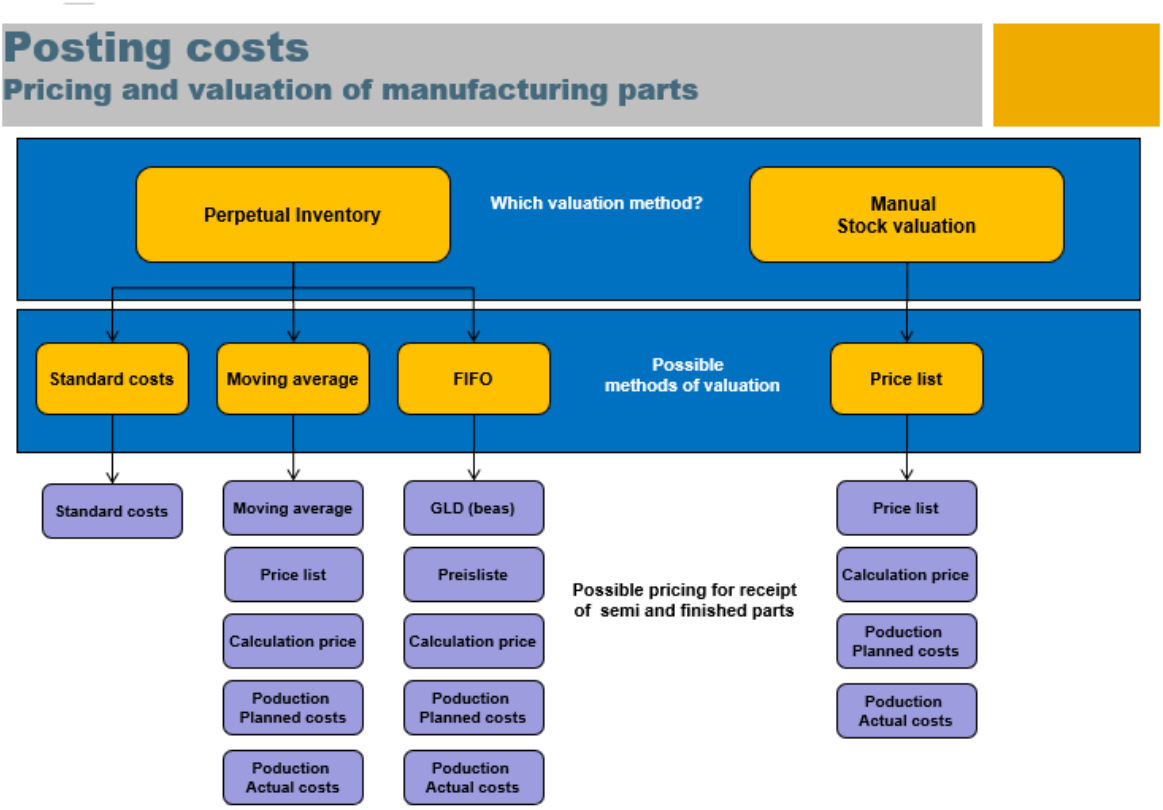
19.16.2 Valuation at postings

In Beas, prices cannot be entered in the posting transactions, therefore automatic pricing is performed, which can be configured.

Pricing affects all posting transactions, whether for adjustment entries, backflushed posting transactions, or crediting of in-house parts.

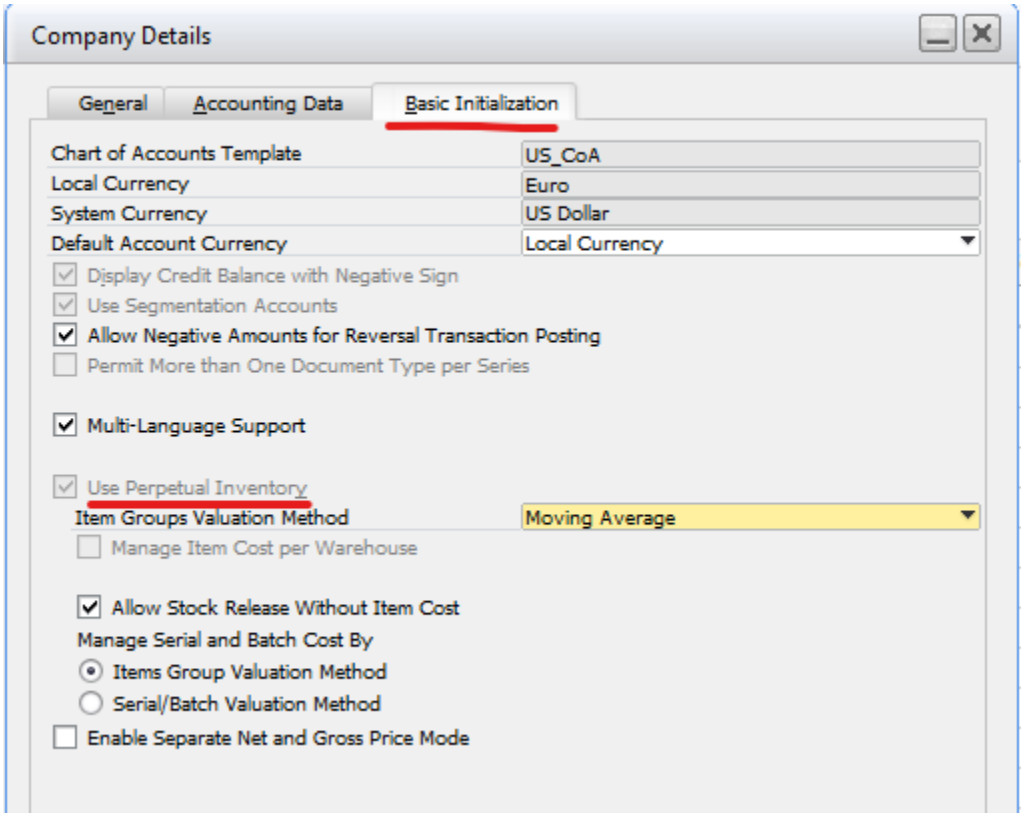
However there is another dependency, the configured item valuation method. To credit finished items (production), other valuation options are also available.

© 2026 Boyum IT Solutions A/S



If "User Perpetual Inventory is activated", the evaluation method is stored in the item master. The pricing method depends on this value.
You can set this in **Company Details > Basic initialization**:

© 2026 Boyum IT Solutions A/S



Pricing behavior:

Item valuation method	Posting	Issue
"Use Perpetual Inventory" is off	According to Configuration Wizard	According to Configuration Wizard
Standard price	Standard price	Standard price
FIFO	According to Configuration Wizard	FIFO
Average price	According to Configuration Wizard	Average price

19.16.3 WIP account

The WIP account is used as a contra account, for material issues and assembly receipts and it is which is in the item, warehouse, or item group. The WIP account of the material may differ from the WIP account of the assembly. In this case, the accounts are unbalanced. When closing the the work order or receipt of the assembly, a balancing posting of all WIP accounts to which postings were made is performed to the WIP difference account of the assembly.

© 2026 Boyum IT Solutions A/S

If you work with different WIP accounts, but only want the WIP account of the assembly to be used, you can activate this in **Configuration Wizard > Production > Valuation Assembly > Use For Component Transactions > Component WIP Account**. In this case, the WIP account of the assembly is used for material issue.

Overheads, manufacturing costs

Contra accounts can also be specified in the calculation objects and for time types. Depending on the setting, the transfer is performed from the account specified to the WIP account.

Possible configurations include the following:

1	Material in WIP	WIP > stock account of the assembly	This is the default behavior. Further settings are not necessary.
2	Material in WIP	WIP > stock account of the assembly and remaining amount in WIP difference account of the assembly	**Configuration Wizard > Production > Valuation and Posting of Assembly > Valuation > Balance WIP Account** must be enabled.
3	Material in WIP Manufacturing costs in WIP at the time production ends	WIP > stock account of the assembly and remaining amount in WIP difference account of the assembly	**Configuration Wizard > Production > Valuation and Posting of Assembly > Valuation:** **Balance WIP Account** must be enabled. Post overheads for partial delivery when closing the production position. **Calculation Objects > Overheads > Manufacturing Cost Object** enter the contra account for marginal or full costs here if required for *Post to account*.
4	Material in WIP Manufacturing costs in WIP at the time of the process time notification	WIP > stock account of the assembly and remaining amount in WIP difference account of the assembly	**Configuration Wizard > Production > Valuation and Posting of Assembly > Valuation** **Balance WIP Account** must be enabled. Post overheads for partial delivery: no dependency. **Calculation Objects > Overheads > Manufacturing Cost Object** Don't store any accounts.

© 2026 Boyum IT Solutions A/S

1	Material in WIP	WIP > stock account of the assembly	This is the default behavior. Further settings are not necessary.
			Create a time type in master data and insert the contra account in overheads or full costs. Store this time type in the work sequences. A transfer is now performed from the contra account specified in the time type to the WIP account at the time of the time report. If the time report is corrected, the journal entry is automatically corrected.
5	Material in WIP Post overheads (production and material surcharges) to the WIP account at the time of assembly receipt	WIP > stock account of the assembly and remaining amount in WIP difference account of the assembly	**Configuration Wizard > Production > Valuation and Posting of Assembly > Valuation** **Balance WIP Account** must be enabled. Post overheads for partial delivery: for assembly receipt. **Calculation Objects > Overheads** Create the corresponding overheads and surcharge objects here and specify the corresponding contra account for the accounts for marginal or full costs.

Examples for WIP settings

19.16.4 Production valuation and accounts

The evaluation methods and account movements are described in this chapter.

19.16.4.1 Account movement (default)

The documentation describes the behavior when continuous stock is activated.

Basic setting

Material transaction is posted to the WIP account on issue from the material account.

If the assembly is received, it is posted from the WIP account to the stock account of the assembly.

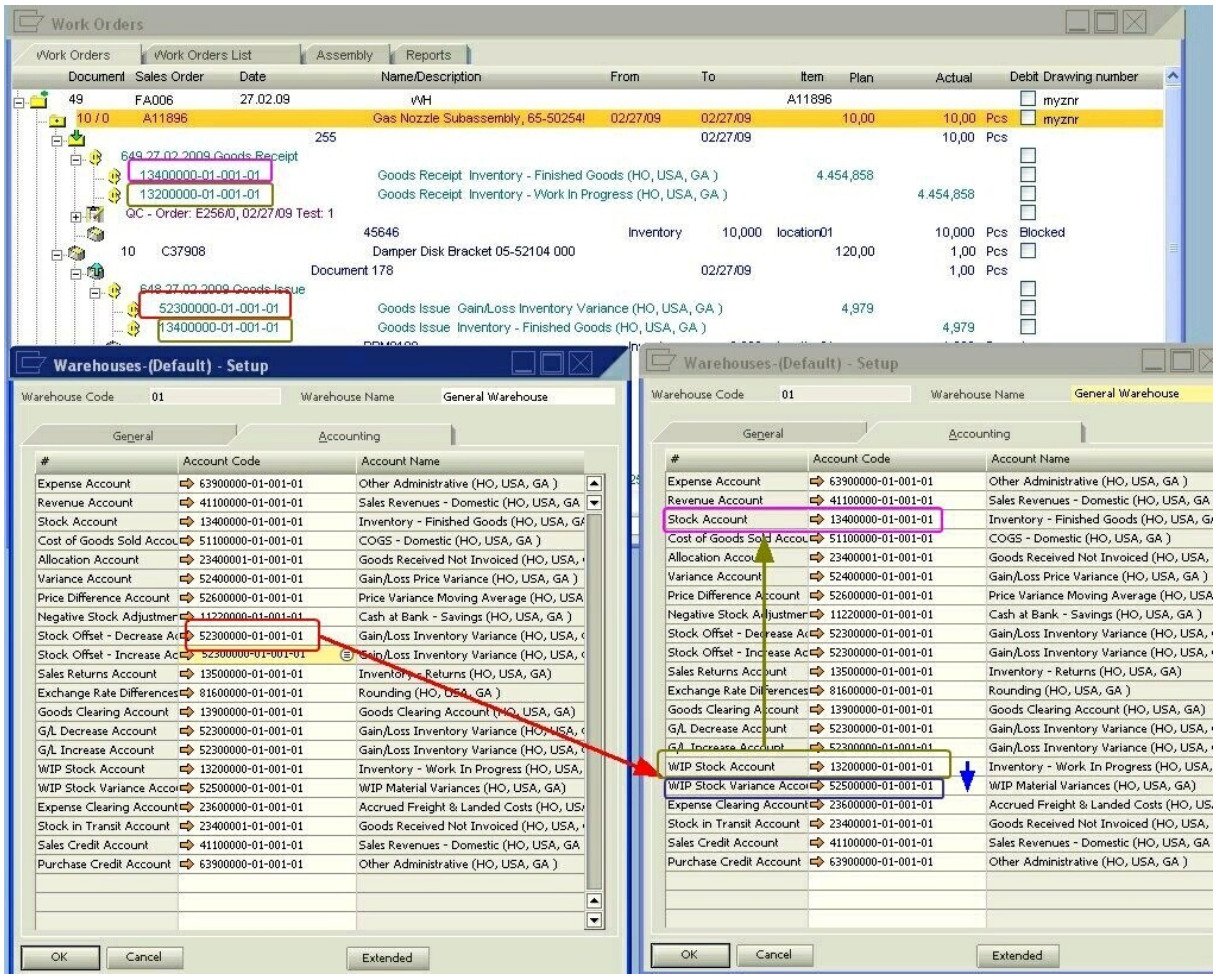
The difference of the amount, that is, the remainder in the WIP account, is posted to the WIP

© 2026 Boyum IT Solutions A/S

variance account. The difference posting is a separate journal entry made on receipt of the assembly or closure of the work order. This can be optionally configured.
WIP variance value is the calculated cost difference of issued material, costs from time receipt and external operations (depending on the configuration) and the receipt of the assembly.
The evaluation of the assembly depends on the settings in the **Configuration Wizard > Production > Valuation and booking of assembly**.
The costs of the issued material depends on the evaluation method of the item set in item master data. When the evaluation method of the material is defined as moving average, this price is used for calculating the WIP variance, because this is the value used for journal entry, representing the system-wide evaluation method for items.

The calculation is: costs of receipt assembly - (material costs + costs of time receipt (depending on configuration) + cost of purchase orders for external operations (depending on configuration))

In this example there is no account determined from the warehouse:



© 2026 Boyum IT Solutions A/S

Webinar: Financial accounting in Beas Manufacturing

19.16.4.2 Valuation and posting of assembly

When posting the assembly, a transfer from the WIP account of the assembly to the stock account of the assembly is performed.
The valued price of the assembly is posted, rather than the sum in the WIP account. The difference in the amount is then transferred, using a separate journal entry from all WIP accounts that have received postings to the WIP difference account of the assembly.

Normally, only the material costs are in the WIP account. However, the calculation objects or time types can be used to define whether other costs, such as manufacturing costs, overheads, or other surcharges are also posted to the WIP account. In this case, a more precise differentiation of the incurred costs is possible on account level, and the difference amount transferred to the WIP difference account is lower.

The evaluation of the assembly can be configured.
A valuation at planned costs, actually accumulated costs, a mixture of both, or at pre-calculated values stored in price lists can be configured.
The evaluation method that is most useful, depends on a lot of factors factors and must be analyzed accordingly.

Important: It is not the evaluation of the work order, but the real value of the assembly that must be posted.

Also see: Valuation of the assembly
Webinar: Financial accounting in Beas Manufacturing

19.16.4.2.1 Material and production overheads

To create a contra account for material and production overheads:

Accounts / calculation object

The contra accounts are stored in the calculation objects.
The surcharges (calculation objects) in the calculation template which are to be posted separately must be defined first. This is set in **Calculation > Calculation Objects**

© 2026 Boyum IT Solutions A/S

You can specify the calculation template to use for the cost analysis or account posting under **Configuration Wizard > Production > Valuation and Posting of Assembly > Valuation > Valuation Template**.
If a separate evaluation template is not set up, the default template for the assembly is used.

Note: When a Work order is created, the template is also copied to the Work order. A subsequent change to the calculation template therefore has no effect on existing work orders.

The template setup can be checked in Precalculation.

Time of posting
The posting is made either at the time the assembly is received or on closing the Work order.
At the time of the assembly receipt, on closing the work order, the system also checks again, whether another posting of overheads is required before the WIP account is balanced.

Settings in the Configuration Wizard:
Production > Valuation and Posting of Assembly > Valuation: Post overheads for partial delivery:
On assembly receipt or *On closure of the production position.*

19.17 Reservation system

Beas allows automatic reservation of normal items, batch and serial number managed items.
You can reserve material for Work orders and Sales orders (Pick and pack process).
The reserved quantities are fixed for each Work order or Sales order and are not available for other documents.

The reservation is later used as a pre-assignment for material issue from stock or for creating Sales delivery documents.

The reservation can be made with automatic pre-allocation by several techniques, including FIFO, Manufacturing date or serial number custom attributes.
Eventually, a WIP stock transfer can be performed in SAP Business One via the Beas Allocation function for accurate tracking of stock quantities and values.

Note: Beas does not allow reservations with negative stock. The item must have stock in order to be moved.

© 2026 Boyum IT Solutions A/S

Beas Manufacturing and Produmex WMS Integration

Beas Manufacturing Produmex WMS

Locks (WMS) and reservations (Beas) created by each system are automatically synchronized and so reflected in the other system.
Beas supports WMS Locking levels "Batch", "LUID" and "Detail".
For more information, ***see*** Beas Manufacturing reservation and PMX WMS locking systems integration documentation.

In the Reservation and issue window reservations, pre-allocations, provisions and postings can be performed.

	Grey barrel: Goods reserved, but planned quantity not yet reached.
	Geen barrel: Required quantity reserved.
	Red, overflowing barrel: More, than the required quantity is reserved.

Also see:
Sales order
Deliver
Reservation system
Reservation list
Configuration wizard - Reservation
Production - Reference
Reservation / issue window

19.18 RFID

Radio-frequency identification (RFID) uses electromagnetic fields to automatically identify and track tags attached to objects. The tags contain electronically stored information. Passive tags collect energy from a nearby RFID reader's interrogating radio waves. Active tags have a local power source (such as a battery) and may operate hundreds of meters from the RFID reader. Unlike a bar code, the tag does not need to be within the line of sight of the reader, so it may be embedded in the tracked object.
RFID is a method of automatic identification and data capture (AIDC).

RFID tags are used in many industries. For example, an RFID tag attached to an automobile during production can be used to track its progress through the assembly line; RFID-tagged

© 2026 Boyum IT Solutions A/S

pharmaceuticals can be tracked through warehouses; and implanting RFID microchips in livestock and pets enables positive identification of animals.
(Wikipedia.com)

Where you can use RFID with Beas:

Time Receipt, Logon, LogOff:

Example: In personnel master data you can insert the RFID Number that is saved in the chip. Use the field "Card Code".

Material management

As identifier for Material. This can be a label with integrated RFID chip

Hardware:

For reading RFID, you need an RFID Scanner.
Beas does not support any RFID Scanners directly and can only read information from the keyboard.
For this reason, you need additional hardware to transfer all RFID information to the keyboard.

© 2026 Boyum IT Solutions A/S

RFID in Beas Bin Management

In Beas Bin Management a field "RFID" is available. You can use this field for working with Bin Management with additional Identifier for every single product via RFID.

It is also possible to use this RFID field for other Identifiers. Here it is recommended to use a serial number for identification and not the separate RFID field inside Beas Bin Management.

19.19 Resources

Resources are productive assets that Beas uses as the smallest capacity unit.

Machine hour rates for calculation, as well as the planned capacity, transition and vacation time for capacity planning are stored in resources.

Resources can be subdivided into resource groups. A resource group can be a number of individual machines that can be used alternatively, or a collection of machines belonging to a production unit. A resource does not have to be assigned to a resource group.

For Beas there is no difference between work stations, employees, machines or buildings. These are all resources to be assigned to the operation sequences.

Resources can be:

- Work stations
- Employees, Groups
- Tools
- Machines
- Buildings
- External operations
- Resource groups

Parallel resources

Parallel resources are separately planned resources that have the same start and end time that the main resource has (operation).

Parallel resources can only have one set of costs defined (for example, no separate staff costs and no extended costs).

Parallel resources always have the same start and end times, but can be used for more than 100% (time reservation %).

Parallel resources are calculated separately and must be reported separately.

Alternative parallel resources can also be defined. The appropriate parallel resource can be selected in manual scheduling or automatic optimization.

© 2026 Boyum IT Solutions A/S

If capacity planning is enabled in the parallel resource, the operation for a forward reservation can only be scheduled when both the main resource and the parallel resource are available.

Beas supports the following types of parallel resources:

- Tools with same start and end date
- Parallel resources with same start and end date and with any degree of utilization
- Alternative parallel resources
- Overlapping operations

Resource optimization

Utilization of the optimal resource in a resource group and utilization of the optimal parallel alternative resource in an operation can be optimized.

Also see

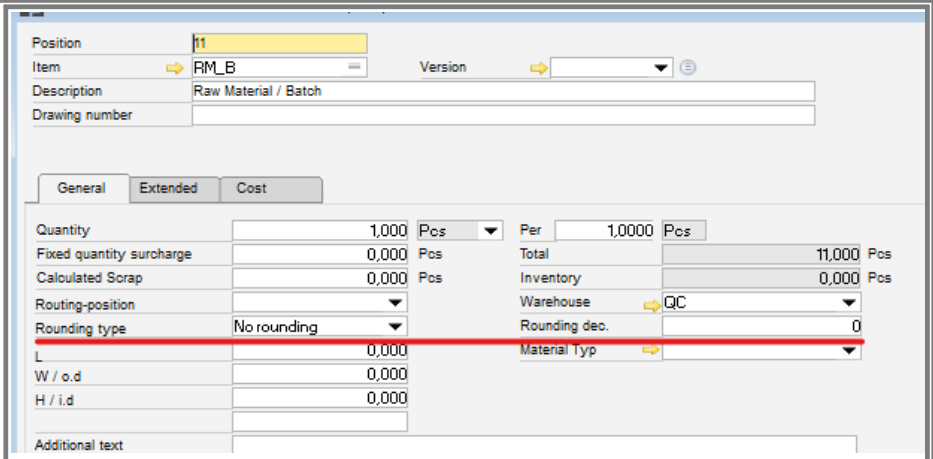
Administration of Employees or personnel	Personnel Master data
Resource groups	Setup, alternative resources, alternative operation
Calculation of planned capacity	Factory calendar
Utilization of resources	Utilization of resources
Detailed machine planning	Detailed planning

19.20 Rounding

Area	Description
General Rounding	Beas work with 6 decimal places
Rounding defined in SAP	if Beas create an SAP Business One, Beas uses the Rounding definition from SAP Business One
Bill of Material Rounding Type	In Bill of Materials you can define an additional Rounding Type The rounding rule can be defined here:

© 2026 Boyum IT Solutions A/S

Area	Description



Available settings:

No rounding	There is no rounding defined.
Round up	The number is rounded up. The exact decimal place can be defined in "Rounding Dec." ***Example:*** You have defined 1 piece per 18: the factor is then = 0.055556 If you multiply 0.555556 x (17+1) = 1.000008 After this you apply a round up --> The final result is 2.
Round off	
Rounding at 5	From 0,5 (1 Decimal place) or 0,5 (2 Decimal places) will be rounded up. Lower will be rounded off ***Examples:***

Requirement	Decimal place	Rounded
1,45	2	1,45
1,45	1	1,50
1,45	0	1,00

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Area</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>
<table>
<tr><th>Requirement</th><th>Decimal place</th><th>Rounded</th></tr>
<tr><td></td><td></td><td>Note: Only the last decimal place is considered. Thus, there is no rounding up of the second decimal place.</td></tr>
<tr><td>1,49</td><td>0</td><td>1</td></tr>
<tr><td>-1,5</td><td>0</td><td>-2</td></tr>
<tr><td>-1,45</td><td>0</td><td>-1</td></tr>
<tr><td>-1,45</td><td>1</td><td>-1,5</td></tr>
</table>
</td></tr>
<tr><td>multiple of</td><td>Always the multiple will be formed, which will be indicated in "Rounding Dec."
Example:
Multiple order of 4
4, 8, 12, 16 is counted
At quantity 3 is rounded to 4
At quantity 4 the quantity 4 remains unchanged
At quantity 5 is rounded to 8

Example:
Multiple order of 10
10,20,30,40 is counted
At quantity 1 is rounded to 10
At quantity 10 the quantity 10 remains unchanged
At quantity 11 is rounded to 20</td></tr>
</table>

Example 1:
A palette per 100 pieces is required
Quantity of requirement corresponds 0.01 palette per piece. But at least one palette has always to be required and from 101 pieces even 2 palettes.
The BOM position will be adjusted as following for this:
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Area	Description
	Quantity: 0,01 Rounding type: multiple of Rounding Dec. 100 ***Example 2:*** A half piece is required. because there is no half piece. It must always be rounded up to 0 decimal place because there is no half piece. Thus a requirement of 0,8 will actually be rounded up to 1 piece. The following setting occurs: Rounding type: round up Rounding Dec: 0 Note: Negative statement of decimal places are not supported. Rounding results are always in Inventory UoM.

19.21 Scheduling

A production backward scheduling function is available in Beas. This function is executed automatically, unless it is disabled in the production order or in the Configuration Wizard.
The latest possible start date is calculated not taking existing work orders into consideration. This also applies to routing level, where the dates provided are always based on latest possible date. If overlaps exist, they are taken into account.
Planning date is not calculated. In terms of lead time calculation, backward scheduling results are correct. For this reason, the specified times serve only as guidelines and may not be used for planning. If a planning is required, APS must be used. A calculation of correct times is possible only by forward scheduling.
If the calculation of the latest possible start date with correct times to start and finish is required, a combined forward and backward scheduling is possible using the APS.
APS takes into account time and material reservations. APS does not provide a graphical display, but a quick and simple calculation of the start and finish times of the work sequences and in turn to determine the material requirement date.

© 2026 Boyum IT Solutions A/S

19.22 Scrap

The term scrap has several alternative expressions with different uses, depending on the industry: waste, scrap factor, additional requirement, offcut, cut-off, waste, and so on.

Beas provides various scrap and offcut factors. The difference is entered during input, not during the calculation.

Area	Name	Description
Item Master Data	Scrap	Define Scrap on Item level Only for items with Procurement Method "Make" Video: Scrap on Item Level
Item Mater Data	Scrap Table	Define Scrap by table on Item level, scrap Only for items with Procurement Method "Make" Scrap definition is defined in the Scrap / Cut-off table Video: Scrap on Item Level
Item Master Data	Cut-Off %	Define Cut-Off% on Item Level Only for items with Procurement Method "Buy" Define scrap on work order Bill of materials level, but item-related Video: Scrap on Item Level
Item Master Data	Cut-Off Table	Define Cut-Off by table on Item level Only for items with Procurement Method "Buy" Define scrap on work order Bill of materials level, but item-related Scrap definition is defined in the Scrap / Cut-off table Video: Scrap on Item Level
Bill of Materials	Scrap	Define Scrap on Bill of Materials level ***See*** Concept BoM Scrap
Routing position	Material Scrap	Define Material Scrap on Routing level. ***See*** Concept Scrap of Material
Alternative Resource	Material Scrap	Define Material Scrap based on alternative resources Use the defined Scrap of Material, if you use this alternative resource ***See*** Concept Scrap of Material
Routing position	Scrap	Define "Time scrap" on routing position level

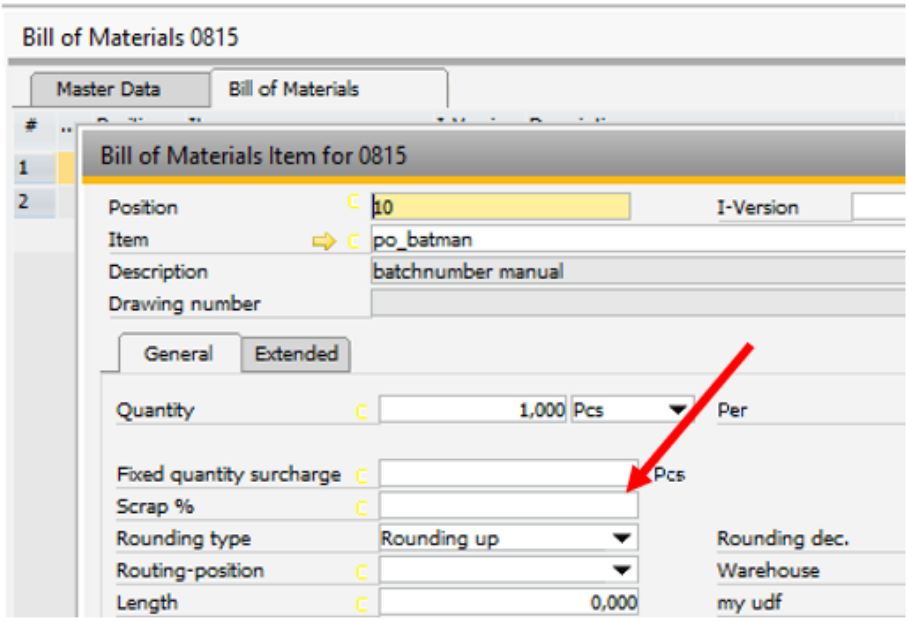
© 2026 Boyum IT Solutions A/S

Area	Name	Description
Resource	Efficiency Rate %	Define "Time scrap" on Resource level ***See*** Resource efficiency rate

Scrap factors training

19.22.1 BoM Scrap

Indicate material scrap which is added to the calculated requirement.



Note:

This field is visible in Master Data and Precalculation.

In Work orders you can see the calculated scrap.

Set the formula to be used in the Configuration Wizard.

Available formula definitions:

```
Scrap = Quantity * ( Scrap % )
```
(= default setting)

```
Scrap = Quantity / ( 1 - Scrap%/100 )
```

Example:

© 2026 Boyum IT Solutions A/S

Definition with `Scrap = Quantity * ( Scrap % )`
Requirement: 10 Pcs
Scrap: 10%
Total requirement: 11 Pcs

Definition with `Scrap = Quantity / ( 1 - Scrap% / 100 )`
Requirement: 10 Pcs
Scrap 10%
Total requirement:

19.22.2 Scrap of Material

In **Routing position > Extended** you can define the Scrap of Material related to a routing position.

Example:
You must produce and fill 6 kg of paste.
15% is lost during filling.
Now you must calculate how many liters of paste are needed.

Calculation
Correct formula is: Quantity: (100 – Scrap %) * 100

If you need 6 kg of finished product, you need
6 kg : (100 - (0.15) * 100 = 7.059 kg paste

If you see the opposite:
I fill 7.059 kg paste and lose 15% =
7.059 - (7.059 / 100 * 15) = **6 kg**

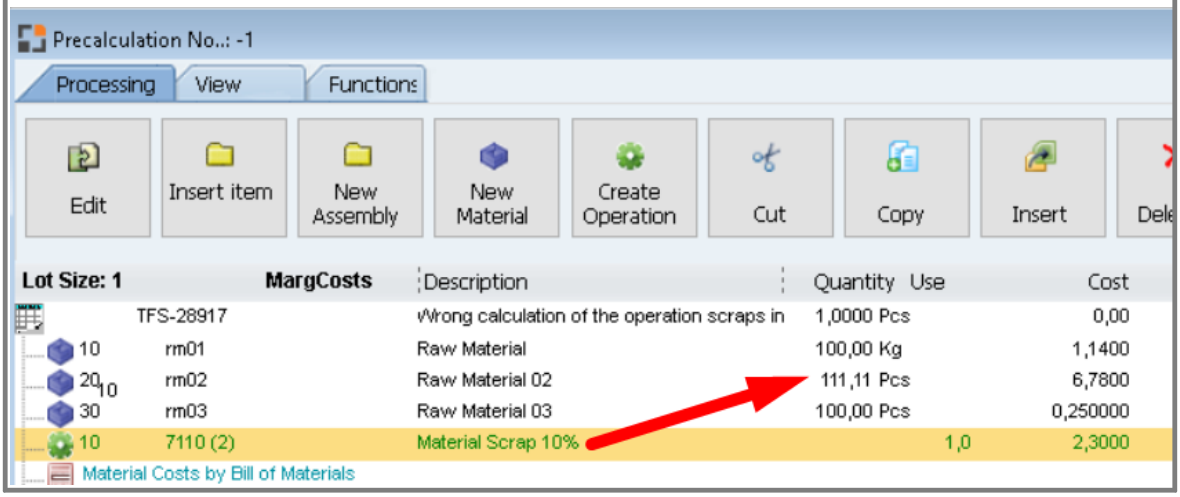
In the **Configuration wizard >** "Behavior for Routing Scrap of Material % affects" you can define how the program should work.
The "Exceeding planned quantity allowed" affects BoM position - material scrap: The Minimum/Maximum percentage is calculated based on total quantity. ***see*** Configuration setting.

© 2026 Boyum IT Solutions A/S

The following settings are available:

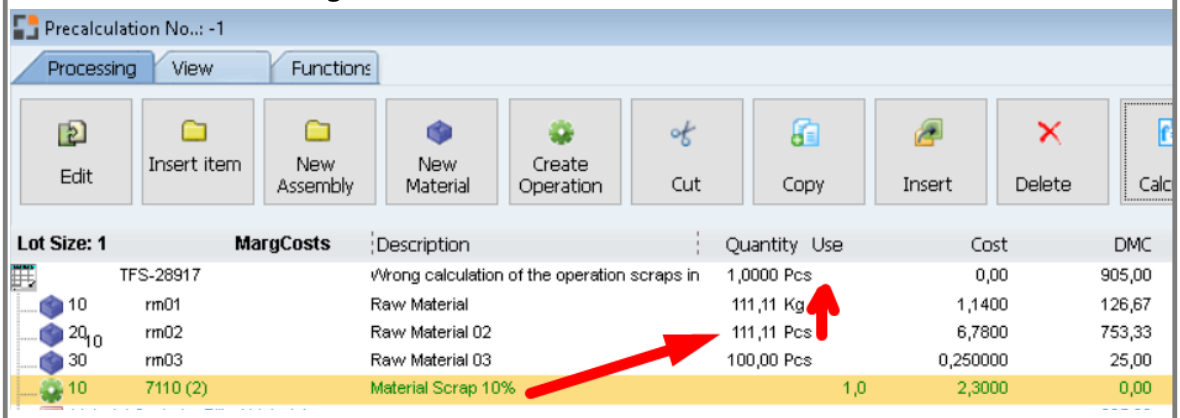
- Only the linked material is affected by the Scrap % setting

Result see this example:



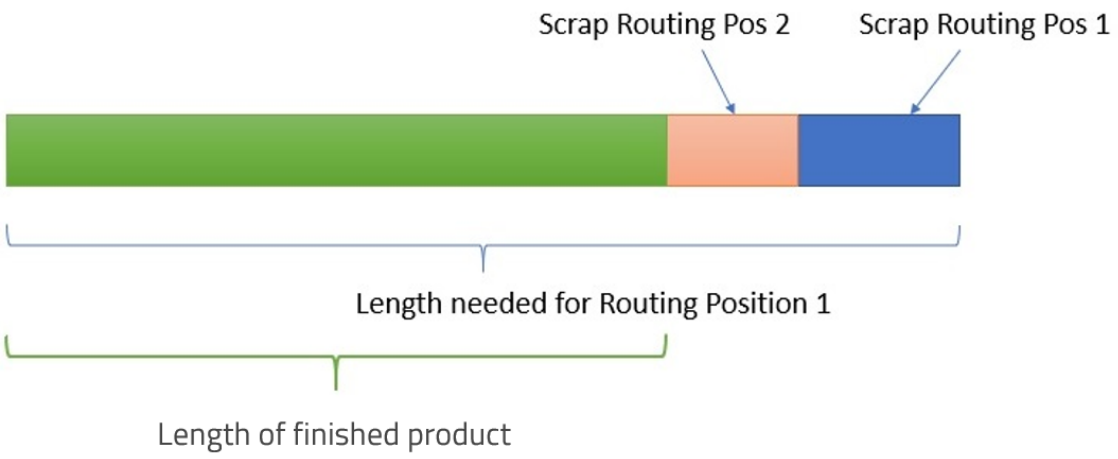
- All materials under the last linked materials are affected

This is the Standard setting



Example: When a bar is sawed, a scrap rate of 10% may incur. If the material is ground, the bar becomes even shorter, that is a longer length must be cut beforehand,

© 2026 Boyum IT Solutions A/S



Example:

We need a finished product with a length of 250 mm.

We start with 308.65 mm - sawn : scrap 10% = 277.78.

Continue with 277.78 mm - ground : scrap 10% = 250 mm.

Routing Position	Material	Quantity	Scrap %
10 sawed	bar	308.65 mm	10
20 ground		277.78	10
30 QC		250 mm	

Calculation

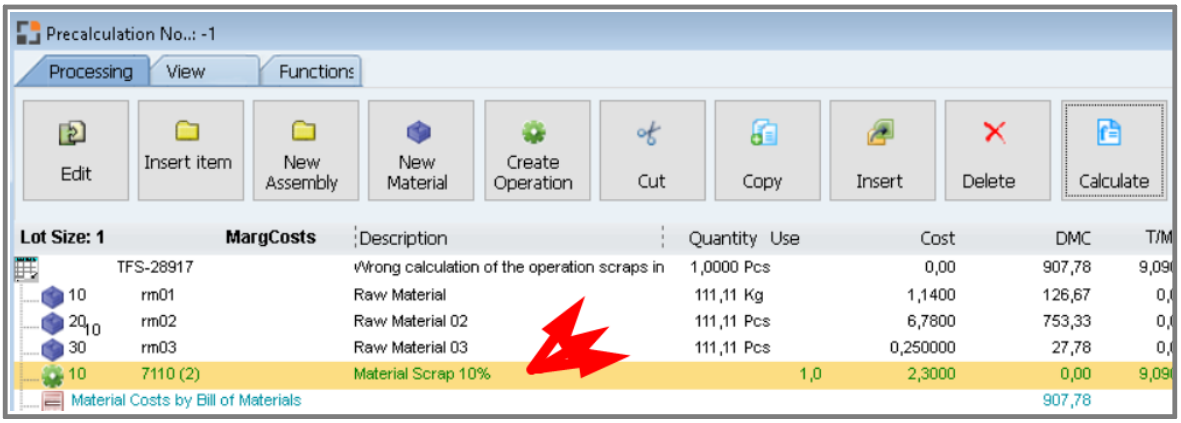
Correct formula is: Quantity : (100 – scrap%) * 100

Position 20 we need 250 : (100 – 10) * 100 = 277.78

The value is entered into the production BOM item, column "calculated scrap" as fix value.

- All materials are affected by the Scrap % setting

© 2026 Boyum IT Solutions A/S



Notes:

- This field is only visible when the parameter in **Configuration wizard > Master data > routing > "operation related material scrap**" is enabled.
- The Item Report – Item Structure report does not support Material Scrap factor on Routing Level.
- Enable this option only if absolutely necessary; the computation will take considerably longer.
- In Work orders this field is blocked, because scrap of material is determined only at the moment of creating the work order.
- When checking which routing positions are considered, the following criteria apply:
  - Validity date
  - Active (no formula, no quantity check)
  - Variants (A–Z)

  Not checked:
  - Variants formulas, Product configurations

19.23 Station name

All Beas sessions need a unique station name. The BIOS name of the current computer is read out when Beas is installed locally.

The `clientname` environment variable is read and used if it is a terminal server.
The current Windows user (`username` Environment variable) is used as the station name if the `sessionname` environment variable begins with `rdp` or `ica`.

The optimal setup for a remote server is the following:

- The `sessionname` environment variable begins with `rdp` or `ica.`
- The Windows user must be unique and stored in the `username` environment variable.

© 2026 Boyum IT Solutions A/S

19.24 Tasks

Tasks are repeated routines, for example, daily calculations of the Order Recommendation Report, various check lists, interface queries, and so on.

Beas offers several options to help automate tasks.

- The Beas-service provides a task scheduler, which can execute Beas script directly. This is mainly used for tasks that must be performed very often, for example, to query a port. This is quick and easy to set up.
- The Windows task scheduler - Beas can be started as a task. Use this option to carry out elaborate, memory-intensive calculations such as MRP, pre-calculation, and so on.
- The Beas-common-interface offers fast query access to a database table for two-way, real-time communication.
- The web interface is available for web applications or web services.

Using the Windows task scheduler

A task is created in the Windows Task Scheduler and a call to beas.exe, including the parameters, is stored. Arguments must be fully specified.

Example: entry in field "arguments":

```
mrp=1 user=manager pw=1234 db=testdb
```

Example: entry in field "start in":

C:\Program Files (x86)\beas software\beas

Starting at: Make sure to specify the directory in which the program is located

The task to be performed can be included:

- Using the Beas built-in task scheduler and entering the task, specifying its number
- Direct entry of the command to be executed

Examples:

Compute order recommendation number 1:

Beas.exe `mrp=1 user=<user> pw=<password> db=<databasename>`

Script number 5, stored in Beas-server administration > planned activities, is called:

Beas.exe `task=5 user=<user> pw=<password> db=<databasename>`

Also see :

Beas-Call up-parameters

Planned activities

© 2026 Boyum IT Solutions A/S

19.25 Terminal application

Beas can be started as a pure terminal application to use on the shop floor with a defined number of functions. The program can be operated via keyboard, touch screen or scanner.

Start Beas as a terminal application

1. Create a link on the desktop to **C:\program files\beas software\beas\beas.exe**
2. Start Beas using the link so it registers. This is to ensure that the credentials are stored correctly.
3. End Beas.
4. Edit the link by right-clicking.
5. Enter in the target filed: "**C:\Program files\beas software\beas\beas.exe" terminal db=trainingdb**" (the appropriate directory name and the correct database name need to be specified)

Also see Call-up parameters

Depending on the hardware configuration and the requirements in manufacturing, different Terminal variants are offered.

Time

The terminal always displays the client-time (that is, the time adjustment, which was carried out in SAP), independent of the local time of the PC. Logon and logoff are always carried out independently from the local time. The time displayed in the terminal is decisive.

Functions in Terminal

The employee logs on with their personnel number. After a certain time of inactivity, personnel is logged off automatically.
The applications, which have been authorized for the respective employee, are displayed. This is set in Program group administration.

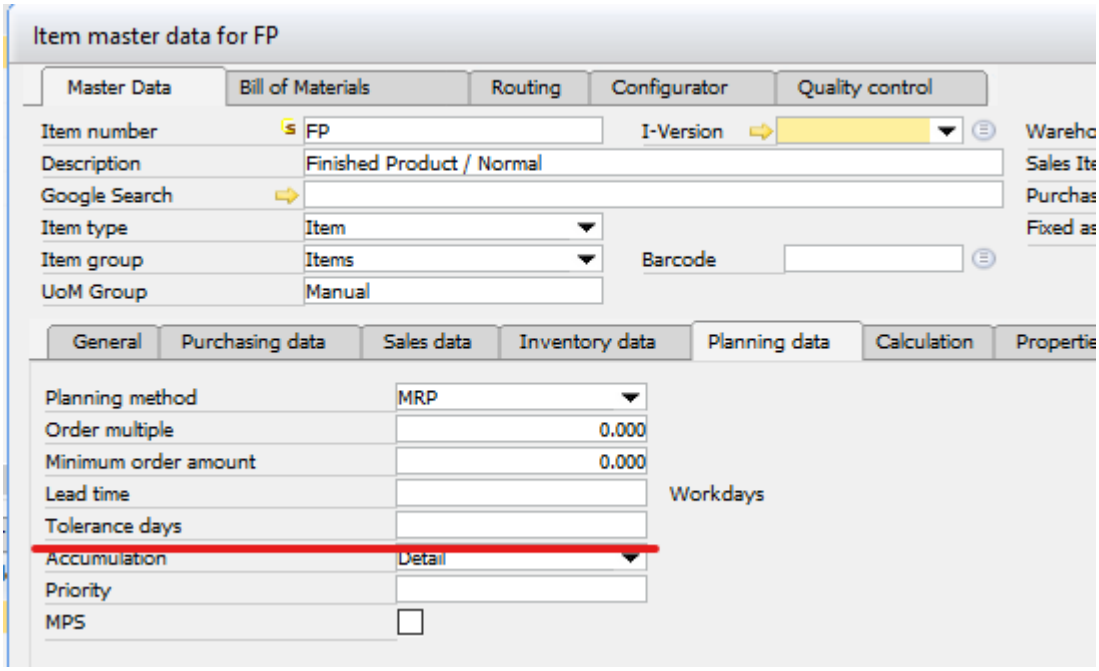
See also:

Production – Factory Data Capture – Terminal
Administration – Attendance – Terminal
Utility programs – Program group administration

© 2026 Boyum IT Solutions A/S

19.26 Tolerance Days

In **Item Master Data > Planning Data tab** you can define Tolerance days.



Related to order scheduling: If there is negative stock in the time line, the item will be shown as shortage in MRP. Here you can enter the number of days. Negative balance is tolerated.

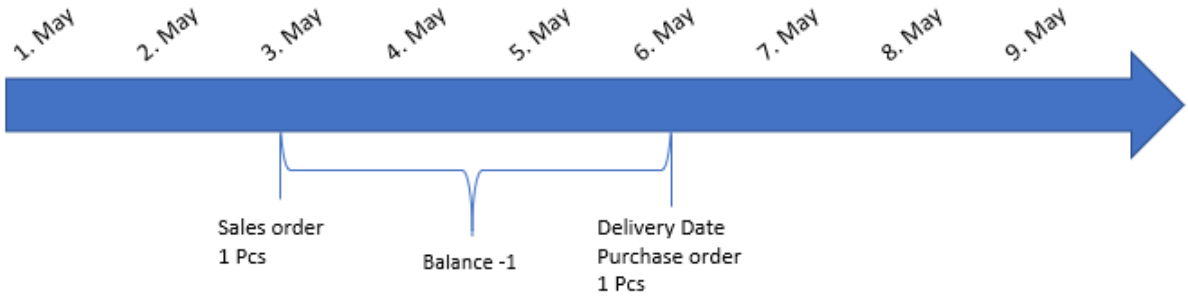
Example:

Stock = 0

Sales order = 3rd May

Purchase order delivery date = 6th May

Material comes 3 days late



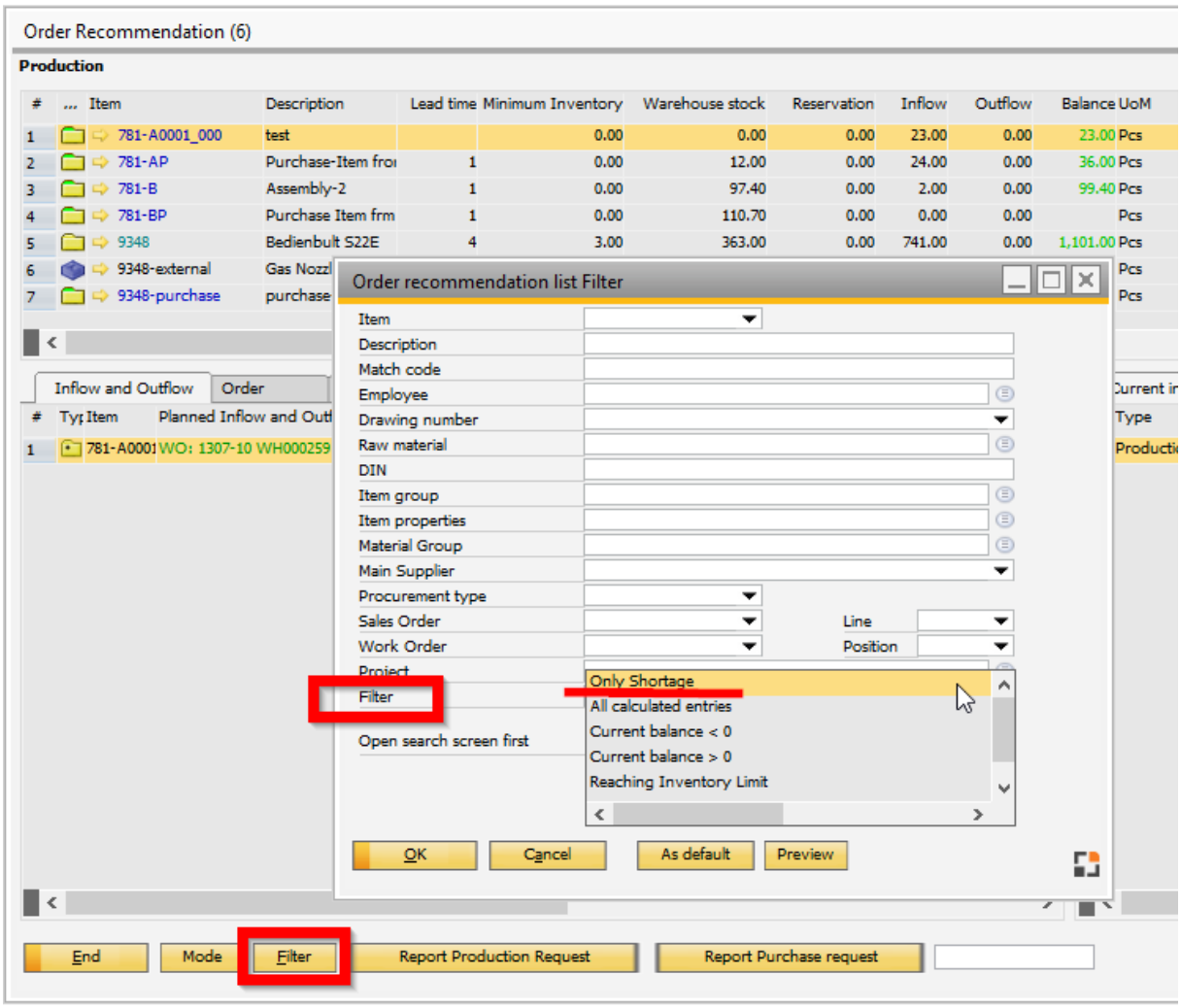
If the tolerance date for this item is defined with 3 days or more, the result is: OK

If the tolerance date is < 2, MRP must display this piece of information.

© 2026 Boyum IT Solutions A/S

In MRP the filter "Only shortage" means:

Display all entries which have a negative balance in the timeline.



(MRP Filter - Predefined Filter)

In this example the item has a balance of 0, but a negative balance between 3rd and 6th May

MRP displays this item if the item has "tolerance days" < 3 days.

MRP does not display this item if the item has a "tolerance days" > 3 days.

Negative Balance in past

Negative Balance in the past is ignored entirely.

The calculation for the time area starts from the current Date.

Example:

Today is 5th May

© 2026 Boyum IT Solutions A/S

Sales Order is 3rd May

Delivery = 6th May

The system calculates: Balance is negative from 5th – 6th May = 1 day.

19.27 Total Quantity

Describe the calculation of work order total quantity / planned quantity

Formula

(

(Qty. to produce *in Production UoM* + Cut-Off Quantity *in Production UoM*)

: Bom "Per"

* Quantity BoM *in Production UoM*

)

+ Calculated Scrap *in Production UoM*

+ Fix Quantity *in Production UoM*

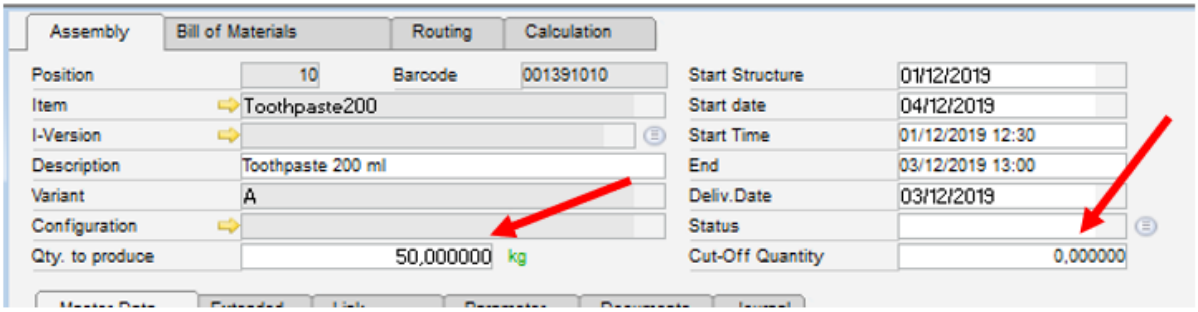
: Conversion factor to Inventory UoM

= Needed Quantity

Round up with defined Rounding types in the BoM Position.

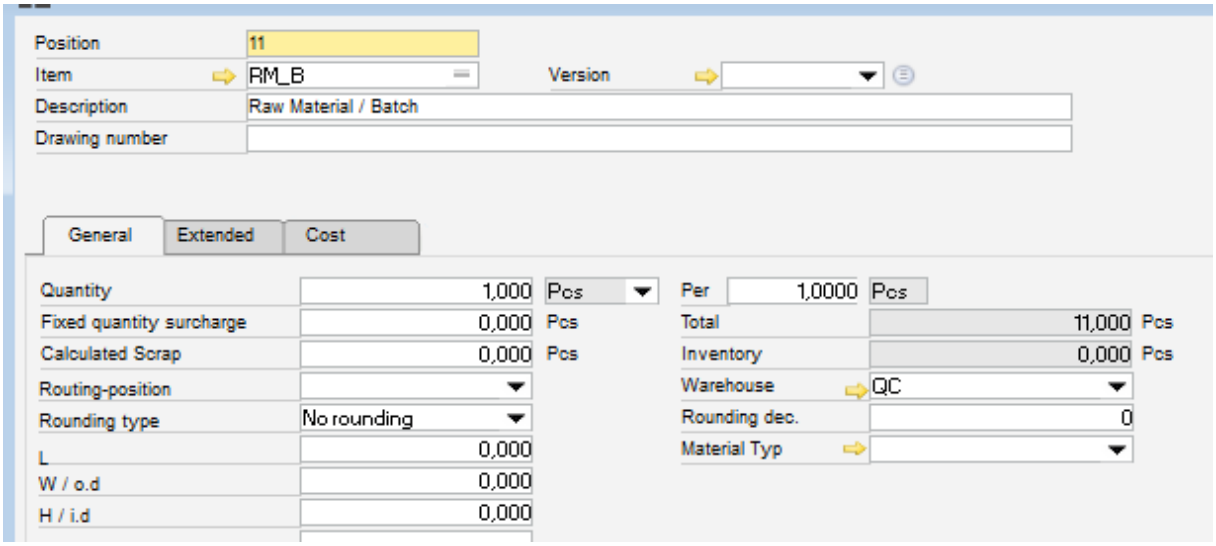
= Total Qty

Calculation details:



Field	Description
Qty. to produce	Planned Quantity in Production UoM
Cut-Off Quantity	Calculated Scrap in Production UoM

© 2026 Boyum IT Solutions A/S

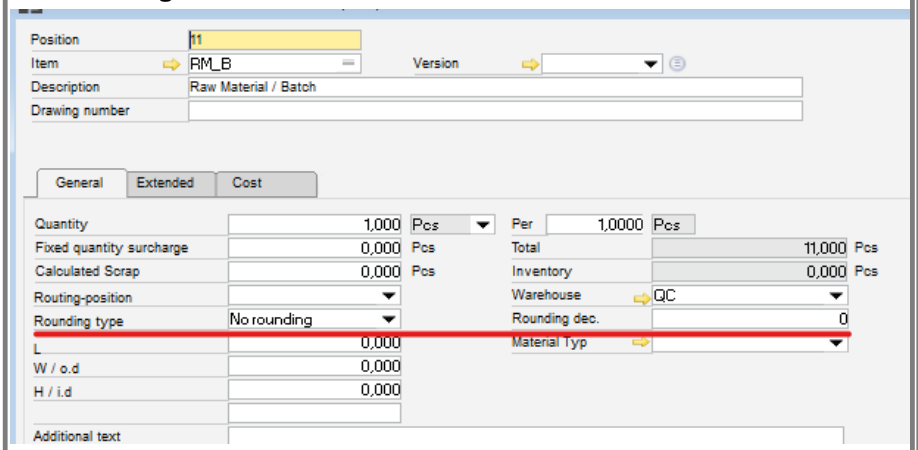


Field	Description
Quantity	Define the planned "Quantity" This Quantity is "per Input UoM" and the system calculates the Quantity in "per Production UoM" automatically.
Per	Define the Factor "per x" ***Example:*** I need 5 Pcs per 100 Assemblies. This is the same as 0.05 Pcs per 1 Assembly Special case: If "Per" = -1, then the system ignores the quantity of assemblies. The defined quantity in BoM is a Fix quantity. ***Example:*** Quantity 10 Pcs, Per=-1 Production = 200 Pcs, Quantity per 1 = 10 / 200 = 0.05 Pcs per 1 Assembly
Fixed quantity surcharge	Quantity per 1 Assembly in Input UoM
Calculated Scrap	Calculated Scrap Quantity per 1 Assembly in Input UoM
Rounding Type	Define the rounding Type

© 2026 Boyum IT Solutions A/S

Field	Description

The rounding rule can be defined here:



Available settings:

No rounding	There is no rounding defined.
Round up	The number is rounded up. The exact decimal place can be defined in "Rounding Dec." ***Example:*** You have defined 1 piece per 18: the factor is then = 0.055556 If you multiply 0.555556 x (17+1) = 1.000008 After this you apply a round up --> The final result is 2.
Round off	
Rounding at 5	From 0,5 (1 Decimal place) or 0,5 (2 Decimal places) will be rounded up. Lower will be rounded off ***Examples:***

Requirement	Decimal place	Rounded
1,45	2	1,45
1,45	1	1,50

© 2026 Boyum IT Solutions A/S

<table>
<tr><th>Field</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>
<table>
<tr><th>Requirement</th><th>Decimal place</th><th>Rounded</th></tr>
<tr><td>1,45</td><td>0</td><td>1,00
Note: Only the last decimal place is considered. Thus, there is no rounding up of the second decimal place.</td></tr>
<tr><td>1,49</td><td>0</td><td>1</td></tr>
<tr><td>-1,5</td><td>0</td><td>-2</td></tr>
<tr><td>-1,45</td><td>0</td><td>-1</td></tr>
<tr><td>-1,45</td><td>1</td><td>-1,5</td></tr>
</table>
</td></tr>
<tr><td>multiple of</td><td>Always the multiple will be formed, which will be indicated in "Rounding Dec."
Example:
Multiple order of 4
4, 8, 12, 16 is counted
At quantity 3 is rounded to 4
At quantity 4 the quantity 4 remains unchanged
At quantity 5 is rounded to 8

Example:
Multiple order of 10
10,20,30,40 is counted
At quantity 1 is rounded to 10
At quantity 10 the quantity 10 remains unchanged
At quantity 11 is rounded to 20</td></tr>
</table>

Example 1:
A palette per 100 pieces is required
Quantity of requirement corresponds 0.01 palette per piece. But at least one palette has always to be required and from 101 pieces even 2 palettes. The BOM position will be adjusted as following for this:
</td></tr>
</table>

© 2026 Boyum IT Solutions A/S

Field	Description
	Quantity: 0,01 Rounding type: multiple of Rounding Dec. 100 ***Example 2:*** A half piece is required. because there is no half piece. It must always be rounded up to 0 decimal place because there is no half piece. Thus a requirement of 0,8 will actually be rounded up to 1 piece. The following setting occurs: Rounding type: round up Rounding Dec: 0 Note: Negative statement of decimal places are not supported. Rounding results are always in Inventory UoM.

19.28 Unit Of Measurement

In Beas you can define the quantity in different areas.

Type	Description
Inventory UoM	For storing goods and counting at inventory and display in inventory history *(Field OITM.InvNtryUom)*
Production UoM	This is the production Unit. Every quantity in Bill of materials and work order position is stored in production unit. Conversion between production unit and inventory unit is defined in the Conversion. Note: In BoM you can define a separate Input Unit. In this case the system calculates the production unit from input unit and the inventory unit from production unit

© 2026 Boyum IT Solutions A/S

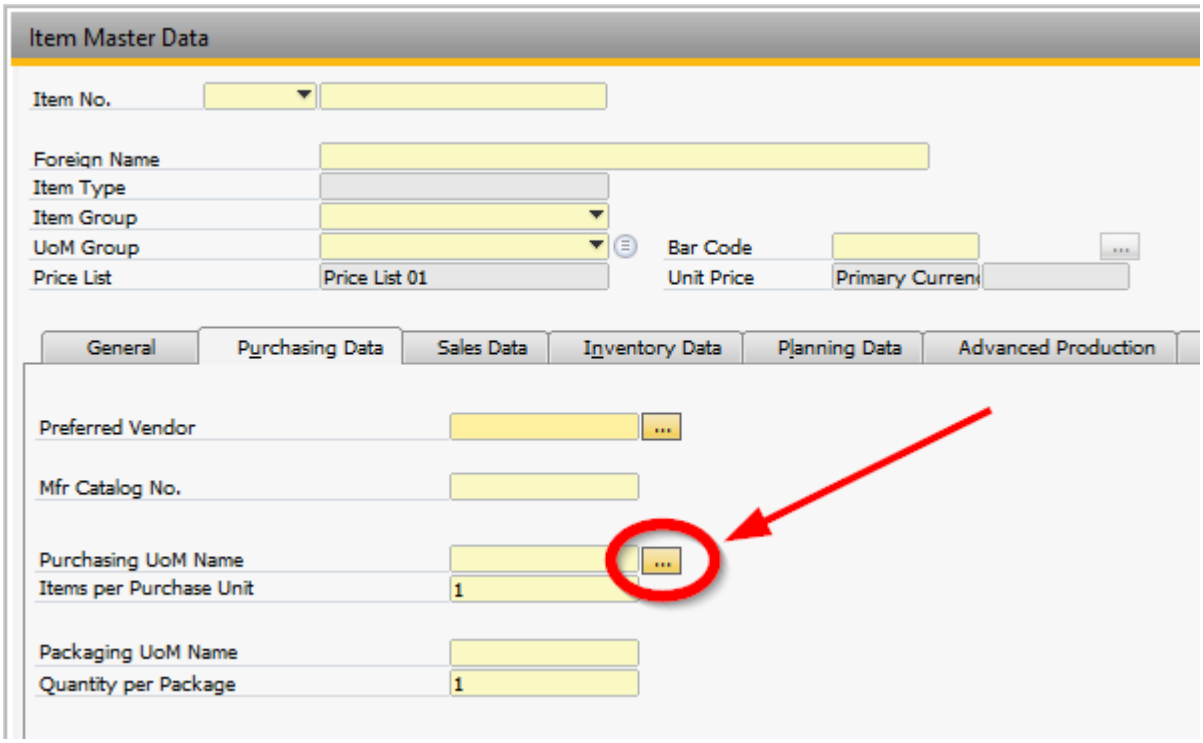
Type	Description
	(Field OITM.U_me_verbr)
Sales UoM	Used for offers, customer orders, delivery note, invoice and all other documents in area Sales. *(Field OITM.SalUnitMsr)*
Purchasing UoM	Used for purchases, delivery, purchase invoices. *(Field OITM.BuyUnitMsr)*
Inventory Counting UoM	Unit for stock counting. Currently not supported by Beas. *(Field OITM.CntUnitMsr)*
Input UoM	In the Bill of materials window you can define an own UoM. From this Unit the system calculates the production UoM and from this the inventory UoM.

Concept

In Beas, Unit of Measurement is mandatory for every Item. In SAP it is enough to work with UoM Names.
Beas uses the SAP UoM Names for saving the UoM Code.

For this, Beas inserts a button with 3 points right of the UoM field. Here you can choose the UoM.
If you insert the UoM manually, Beas checks if the UoM is correct.

© 2026 Boyum IT Solutions A/S

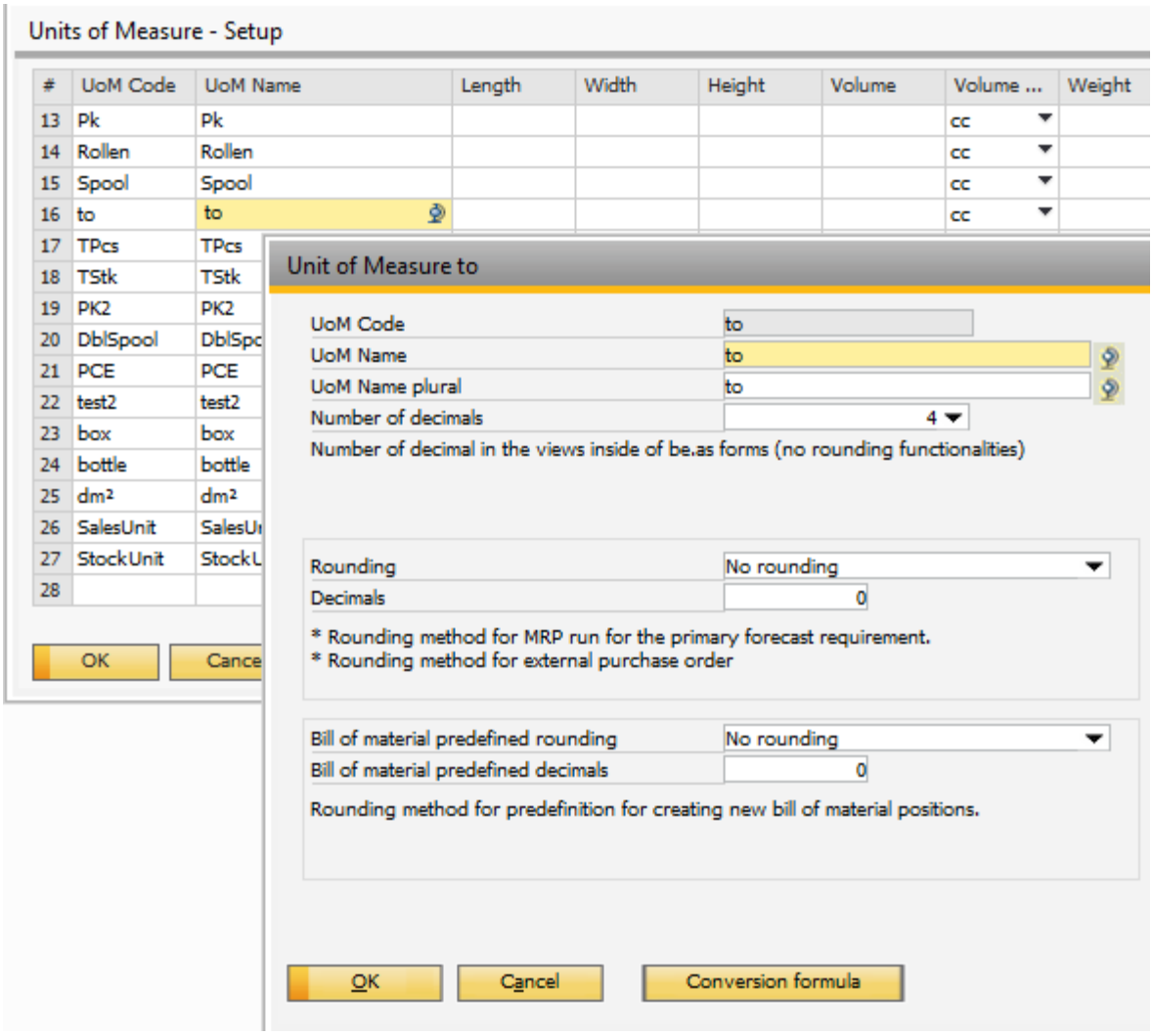


See UoM in item master data

Note: In SAP UoM Definition the UoM Name and UoM ID must be the same.

See Unit of measure

© 2026 Boyum IT Solutions A/S



beasgui_sbo.psr

You can define extended information for every UoM (right-click in UoM window)
Here it is allowed to define a UoM Name for singular and plural (e.g. for printing documents) and the count of decimal places for the view in a Beas form.)

> Note for Decimal places:
>
> This is not rounding. This only defines the view in Beas forms and the WEB Application.
> The count of decimal places for rounding is defined in General settings – View – Decimal places.

Beas allows to define different UoMs (Input/Production/Inventory UoM)
The system always converts one UoM to another automatically. For this you can define Formulas (UoM – Button "Conversion formula"). You can insert your own formula and use it for the length, width, height and density of the actual item or Bill of Materials entry.

© 2026 Boyum IT Solutions A/S

See Conversion.

Item UoM Group

Beas supports item UoM Groups.

If an UoM Group is defined for an item,

a) you can only choose the UoM in the Item Master Data and BoM which was defined in the UoM Group.

b) the system uses the conversion factor defined in the UoM Group.

See

General settings – View – Decimal places

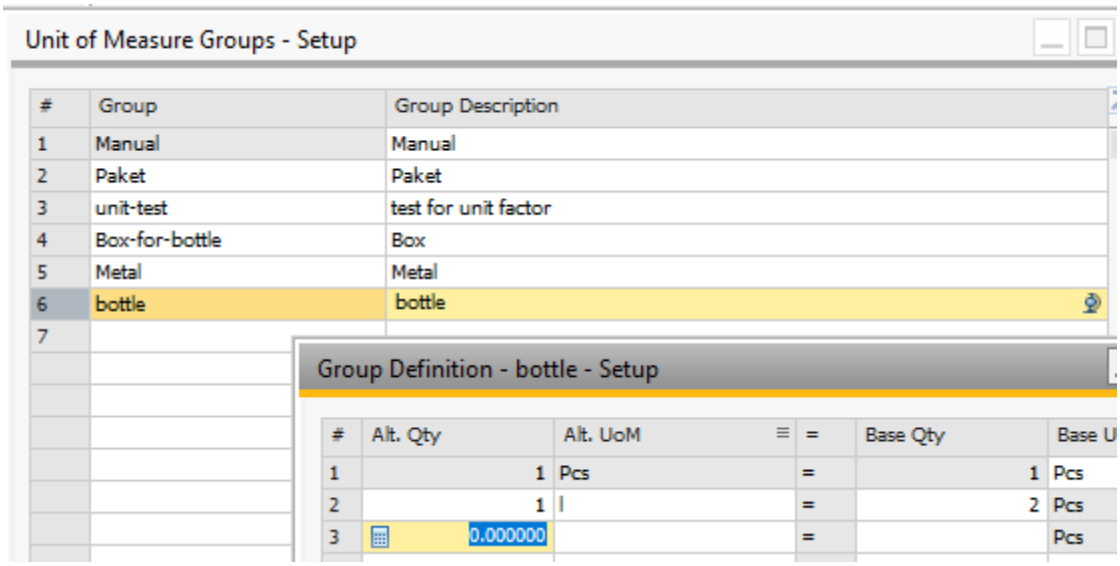
Edit units of measure

Precalculation pricing

19.28.1 UoMGroup

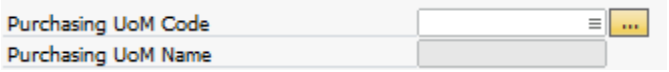
UoM Groups allow the definition of a conversion factor between different units grouped in a UoM Group.

See SAP Unit of Measurement Groups.



In an Item you can define the UoM Group for the item.

Here SAP displays the UoM ID Field and the UoM Name field locked for all fields.



Note:

© 2026 Boyum IT Solutions A/S

Beas is working with the UoM Name field. The UoM ID and the UoM Name must always be the same.
The Base Unit in UoM Group must be always the inventory UoM.

IMPORTANT: When an UoM Group is defined for an item, the UoM Conversion is applied based on SAP definitions and **not** the conversions defined in Beas.

Attention:
Beas does not support the SAP fields "Weight Factor" and "UDF factor" inside the UoM Group definition!

If a UoM Group is defined, you can only choose one of the UoM Codes defined in the UoM Group in all different UoM fields (Sales, Purchase, Production and so on)
The system uses the UoM Factor defined in the UoM Group (Alt. Qty / Base Qty)

Once a group was created, you can store prices in purchase and sales units. Beas only supports default purchase units.

For additional information ***see***
Concept Unit of Measurement
Precalculation Pricing
Units of measure

© 2026 Boyum IT Solutions A/S

Index

- A -

abort BOM issue 3376
Absence 3277
absence types 387, 3278, 3305, 3307, 3310
absorption cost 1114, 1182
absorption costing 1086, 1090, 1091, 1097, 1100, 1102, 1105, 1106, 1118, 1120, 1122, 1124, 1128, 1187, 1189, 1190, 1191, 1192
Absorption Costing Report 1183
access group 3247
Access rights management 483
Account allocation 195
account determination 292, 296
account movement 4131
Account Overtime 3235
account planning 3257, 3317
Account settings 273
accounting 1082, 1163
accounting data 194
accrued costs 4117
activate continuous stock 4131
activate demo version 952
activate license 952
activate offline 952
activation 133
active provisions 2789, 3586
active user 3371
Active Work Order Times 2757
activities 1071
Activity Log 122, 1818
activity report 3539
Actual and planned 4024, 4025, 4028, 4029, 4030, 4031
actual costs 278, 4122
actual hours 3395
Actual time calculation (presence) 3232
adaditional cost rates 2052
add alternative resource 2388
Add HTML services 887
add new tool 1802
add new utility 1807
add parallel resource 1808, 2384
additional PO options 1342
Addon 994
add-on 994, 995
Add-on manager 995, 996, 3364
Address 514
adjustments 2818
administrate work order times 2107
administration 183, 943, 2750, 3305
administration license 978
administration resource 1993
advance invoice 2432, 2442
advance invoice items 2433
advanced duplicate 1373
Advanced production 1399, 1400, 1404, 1405, 1406, 1416, 1417, 1419
AI 391, 3008, 3616
all serial numbers 1975
allocation 56, 969, 2093, 2167, 2776, 3397, 3868, 4078
alternative 2388
alternative material 1740
alternative resources 1812, 1819, 2573
Analyses 1176
Analysis 1176
annual 1903
annual inventory 1919, 3528
annual inventory count 361, 1905, 1908, 1918, 3335
ANVISA 41
Apache 912, 918
Apache server setup 912
API 402, 468, 469, 474, 476, 477
app 3589
app administration 943, 3382
app controls 3597
app design 907
app development 910
app functions 907
App Leaving 3322
App License 988, 2714, 3383
app list 909
app maintenance 3214, 3592
app objects 907
app settings 943
App setup 945
Application Identifiers 3616
apps 937, 943, 2714, 3353, 3379, 3382, 3383
apps administration 945
apps settings 943, 3382

© 2026 Boyum IT Solutions A/S

APS 624, 967, 1304, 1771, 2016, 2355, 2471, 2474, 2475, 2481, 2484, 2486, 2488, 2491, 2493, 2502, 2506, 2511, 2516, 2525, 2527, 2531, 2532, 2533, 2543, 2545, 2563, 2564, 2566, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2577, 2585, 4073, 4141
APS license 966, 1214
APS Shortage 2529
APS-view 2531
archive 867
arrive 3391
arriving 3392
Artificial intelligence 391, 3008
Assembly 1591, 3065
assembly posting 277
assembly valuation 370
assign apps 941
assign formulas 2976
assign license 982
assign tools 554
assignment 1105
assistant 391, 3008
asynchrone 390
asynchronous 390, 3613
asynchronous processing 903
asynchronous working 926, 3613, 3635
ATP 196, 1214
attach document 1817, 2054, 2698
attach image 1817, 2054
attachment 1817, 2394, 2643, 3220
attachments 1971, 2232
attendance 3224, 3247, 3272, 3274, 3391
attendance report 3394
attendance revaluation 3299
attendance settings 383, 386
authorization 109, 940, 2714
authorization groups 941
authorizations 490, 3078
automatch 851
automatic 3098
automatic calculation 2395
automatic identification 296
Automatic item number 515
automatic logoff 407
automatic print 433
automatic shift 3264, 3265
Automatic shift detection 3323
Automatic shift scheduling 3228
available 2155, 2164
available to promise 1214
Available-to-Promise 196
average price 4127

- B -

B1 1086
B1 UP 1065
B1 Usability Package 3947
B1UP 1066, 1067, 3947
backflush 2209, 3839, 4078
backflush 2008 56
Backflushing 256, 2737, 3544
backflushing setting 262, 3544
backflushing settings 274, 2737, 3544
background 121, 174
backward scheduling 2475, 4141
backward simulation 2601
balance 3395
bandwidth 62
bar 3951, 3960, 3962, 3973
bar codes 3631
barcode 3616, 3631, 3775, 3780, 3795, 3853
barcode entry 1924
barcode reader 1924
barcode registration 1919, 3528
basic app settings 943, 3382
basic license 961, 2462
basic settings 943, 3382
batch 1448, 3603
batch administration 1975
batch attributes 3603, 3607, 3775, 3839
Batch block 2612, 2667
Batch calculation 572, 1931, 1932, 1934, 1938, 1940, 1944, 1946, 4113
batch calculation check 3377
Batch change routing 1822
Batch change 1742
Batch costing analysis 2445
Batch counter pattern 306
batch details 1981
batch determination 1419, 1539
Batch Extended Information 3603
Batch Generation 364, 4080
batch inventory info 3725
batch list 1882
Batch lock 2155, 2164, 2165
batch management 345, 364, 365, 1979

© 2026 Boyum IT Solutions A/S

batch management settings 355
batch number 364
batch number tracing 2129
batch release 340
batch split 1889, 3469
batch tab 1424, 1543
Batch template 4080
Batch Tracing 365, 1979, 1982
batch transfer 364, 1884, 3465
Batch-calculation 1927
Batches 1979
Batches to be checked 2667
batch-managed item 1539
Beas Addon 3368
beas B1UP Integration 1008, 1012, 1013
beas Blog 3375
beas common reference 928
beas common service 56, 926, 3613, 3635
Beas Customizing Properties 3361
Beas Icon 69
Beas logon 145
beas message 3374
BEAS Mobile 887
Beas report 427
beas report system 432
Beas script 56, 2958, 2996, 3362, 3372, 3373
beas script assistant 1056
Beas Script Editor 3361
Beas server management 893
beas update install 143
beas usabaility package 1008, 1012, 1013, 1020
beas usability extension 1000, 1001, 1013, 1020, 1028, 1051, 1052, 1055, 1056, 1057, 1059, 3362
Beas user 485, 487
beas user interface 82, 85, 87, 99
BEAS Users 483
beas.ini 154
BEAS_APS 966
BEAS_BAB 968
BEAS_BASIC 961
BEAS_BCONFIGSALES 962
BEAS_BCONFIGWEB 964
BEAS_COMMON_INPUT 928
beas_document_header 469
beas_document_line 469
BEAS_MTC 968
BEAS_NETRONIC 967
BEAS_PCONFIG 962
BEAS_PROJECT 969
BEAS_TERMINAL_FDC 974
BEAS_TERMINAL_INV 972
BEAS_TERMINAL_MATERIAL 969
BEAS_TERMINAL_PDC 976
BEAS_TERMINAL_PO 971
BEAS_TERMINAL_QC 973
beas2009 56, 2209
BeasScript 2958, 3373
beas-script 2971, 2978
Benzing 56
BEST PRACITICES 41
BETA 157
Bill of Material Valuation 2345
Bill of Materials 1261, 1582, 1599, 1740, 1742, 1748, 2253, 2255, 2273, 2345, 4110, 4143
bill of materials data 1253, 1259, 1261, 1278, 1281, 1285
Bill of materials detail 2254
bin 1447, 1839
bin location 1533, 1823, 1847, 1858, 1861, 1922
bin location correction 1864
bin location creation 1842
Bin location info 1451
bin location inventory 1443
bin location management 1826, 1830, 1861
Bin Location transaction 1460
bin locations 361, 1823, 1824
Bin management 1823, 1824, 1828
Bin management support 3628, 3709, 3717, 3739, 3757, 3780, 3795, 3810, 3822, 3839, 3853, 3868, 3912, 3925
Bin Master data 1823
BinLocationField 1343, 1865, 2096, 2645, 2737, 3422, 3436, 3450, 3473, 3487, 3503, 3544
Block I-version 1559
block monthly quota 3282
blockage 2612, 2618, 2624, 2711
blockage reason 1559, 2612
blocked stock 1436, 3518
BOM 209, 1253, 1261, 1287, 1577, 1599, 1740, 1751, 2080, 2253, 2255, 2273, 2345, 4110, 4143
BoM data 1253, 1259, 1261, 1278, 1281, 1285
BoM detail 2254
BOM head settings 210
BOM I-version 1748
BOM list 1741, 1756
BOM position 1591, 1616, 1756
BOM position settings 210

© 2026 Boyum IT Solutions A/S

BOM positions 1599
BoM Price 2345
BOM settings 209
BOM tab 1965
Bom Valuation 2345
BomValidFromTo 644, 1278, 1324, 1792
booking price 340, 4124
booking schema 176
bookings 4127
Boyum Style 74, 79, 184
branch in mrp 3026
Breakdown 1406, 3065
breakdown subassemblies 3038, 3039, 3045, 3047, 3057
Breakeven Analysis 2445
brief 2938
BSL Documentation 3946
budget business performance 1082
bulk actions 2531
Business One 35
business partners 166
business performance 392, 1083, 1086, 1090, 1091, 1097, 1100, 1102, 1105, 1106, 1118, 1120, 1122, 1124, 1128, 1131, 1135, 1152, 1153, 1172, 1182, 1183
Business results 3333
button definition 896
button style 77
Buy 1490, 4085
by Detail lock 2155, 2164, 2165
By Order 1490, 4085
by sample 3887
by test 3895

- C -

CAD integration 682
calculate 4117
calculate memory 65
Calculate MRP run automatically 900
Calculate precalculation automatically 900
calculate transport costs 2792
calculate work time 3232
calculation 347, 1196, 1253, 1417, 3060, 3074, 3084, 3091, 3335, 4133
Calculation display 586
calculation lot size 4100
calculation method 2601
calculation object 575
calculation objects 531, 561, 562, 599
Calculation of target time 1820
Calculation of work time 3229
calculation order 3088, 3156
calculation per assembly 586, 591
calculation price 340, 1544, 4124
calculation results 2451, 4117
Calculation schema 368, 369, 558, 562, 586, 591, 599, 1335, 1550, 4113
calculation setting 374, 381
calculation steps 2585
calculation tab 1544
calculation template 597
calculation time 3087
calculation type 2515, 2585
calculation types 2474, 2585, 4073
calendar 423
calendar3 3378
cancellation 2093, 3376
cantrollback 3376
capable 197
Capable-to-Promise 196, 197, 1208
capacity 3951, 3960
capacity planning 325, 2471, 2474, 2488, 2491, 2493, 2502, 2506, 2511, 2516, 2531, 2543, 2545, 2563, 2564, 2566, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2577, 2578
Capacity utilization 4023, 4024, 4025, 4028, 4029, 4030, 4031, 4032, 4033, 4035, 4037, 4039
CGMPS 41
change batch 1854
change bin location field 1854
change calculation template 1434
change objects 91, 93
Change protocol 122
change year 1193
characteristics 1577
charge-off 2187, 3414
charge-off quantity 262, 3544
chart 3951, 3960, 3962, 3968, 3973
chart of accounts 195, 1108
ChatGPT 391, 3008
choose bin code 1865
choose company 1067
citrix 65
CKS 1003, 1004
CKS.DMS installation 1003, 1004
clientname 65, 402, 4147
clipboard 2924

© 2026 Boyum IT Solutions A/S

clock in 3323, 3325, 3703
clock out 3323, 3325, 3703
close work order position 301
Cloud solution 133
COGS 1144
Collective calculation 1927
collective issue 3414
collective purchase order 2762, 2790
collective receipt 2210, 3405
color 108
Color settings 3374
column 695
common program 1059
common service 3613
commontyp 935
communication module 3332
communications module 458
Company address 180
Company details 180
compatibility 48
complaint 680, 681, 682, 1360, 3335
complaint counter 360
Compliance 41
component transaction 292, 296
component transactions 176
compress 2481
compressed view 2564
compression 2484
computation 3060, 3074, 3098
computation order 3088, 3156
computation time 3087
compute resources 1475
concepts 4073
concurrence 962, 969, 971, 972, 973, 974, 976
ConfigExtended 2847, 2851, 2856, 2873, 2882
ConfigOutput 2847, 2882
ConfigParameterTyp 2851, 2856, 2882
ConfigPrice 2830, 2856, 2873, 2882
configuration 2803, 2804, 2818, 3353, 3933, 3937
Configuration object 2842, 2844
Configuration objects 2830, 2847, 2851, 2856, 2873, 2882, 2919, 2920, 2921, 2923, 2924, 2925, 2926
configuration of server management 891
configuration settings 177
configuration structure 2829, 2919, 2920, 2921, 2923, 2924, 2925
Configuration wizard 177
configurator 318, 962, 1582, 2798, 2812, 2829, 2830, 2842, 2844, 2847, 2851, 2856, 2873, 2882, 2919, 2920, 2921, 2923, 2924, 2925, 2926, 2931, 2933, 2938, 2949, 2951, 2952, 2955, 2956, 2958, 2960, 2964, 2966, 2968
configurator definition 2827
configurator setting 2944, 2946
configurator tab 1570
configure item 1567, 1569
configure QC order 2605, 2618, 2624, 2630, 2635, 2637, 2641, 2665, 3589
configure time evaluation 3296
ConfigVisibleRule 2847, 2856, 2873, 2882
Connections License 984
Constraints 3991, 3992, 3993, 3994, 3995
consumed activities 1190
consumed assemblies 1182, 1183
consumption unit 1483
context menu 2071, 3125
contextual menu 1242
Control 91
conversion 539
conversion factor 1302, 1770, 2353
conversion price unit 312
convert 852
copy bill of materials 1751
copy item 1373
Copy routing 1818
copying objects 2919, 2920, 2921
core time 3315
correct bin location 1862
Cost 1324, 2345
Cost accounting 968, 1083, 1175
cost calculate 1122, 1172, 1174
cost center 678, 1108, 1137, 1144, 1147, 1152, 1153, 1160, 1179, 1181, 1192, 3333
Cost Center Assignment 1158
cost center determination 273
Cost center group 1131, 1155
cost center groups 1154, 1181
cost center import 1097
cost centers 1182, 2454
cost details 2053
cost element 597, 600, 602, 678, 1105, 1144, 1160
Cost Element Assignment 1159
cost element entries 1178
Cost Element Groups 1152, 1153
cost elements 561, 562, 598, 599, 1102, 1139, 1141, 2029, 2036

© 2026 Boyum IT Solutions A/S

cost rate 2050
cost rate trend 1181
Cost Sheet 1175
Cost sheet analysis 1163
cost structure 1193
cost type 678
costing 1114
costs 2029, 2375
Count pattern 306
counted stock 1893
counter status 1969, 1970
create add-ons 1002
create bin location 1850
create calendar 423
create item 1373, 1431
create items 319
Create macros 437
create new add-on 996
create new configuration 2943
create project activity 2421
create QC 333
create QC order 2664
Create QC-Plan 2667
create simple transaction 928
create UF message 1057
Creating an inventory location 1850
cross reference 622, 1741
Cross-reference (item) 1460
Crystal 431, 443, 468, 469, 477, 480
crystal evaluation 2466
Crystal product costing analysis 2114
crystal report 430, 3331, 3332, 3333, 3335
CTP 196, 197, 1208
Ctrl 91
Current income 3171
current stock 1883
Currently present 3236
custom reports 429
customer complaint 360
customer group 196
customer order 2432
customer specific 2818
customer specific adaptation 1000
customer-specific add-ons 1002
customization 46, 109, 165, 393, 3362, 3950
customization tool 3363, 3364, 3367
customizations 3372
customize 2121, 3362
customize add-on 996, 1000
customize mobile solution 937
customized extensions 91, 93
customizing 46
customizing administration 1055, 1056, 1057, 1059
customizing bill of materials 2978
Customizing bills of materials and routings 2971
customizing BOM 2971, 2978
Customizing License 993
customizing routing 2971
customizing routings 2978
cut off 548
cut-off 4142
cwertification 41
cycle count recommendations 1902

- D -

Daily Schedule 3226, 3323, 3328
Dashboard 3216, 3948
dashboards 3947, 3950, 3951, 3952, 3955, 3957, 3960, 3961, 3962, 3965, 3968, 3971, 3973, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4006, 4007, 4008, 4009, 4010, 4012, 4013, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4023, 4024, 4025, 4028, 4029, 4030, 4031, 4032, 4033, 4035, 4037, 4039, 4041, 4042, 4044, 4045, 4047, 4048, 4049, 4050, 4051, 4052, 4054, 4055, 4057, 4058, 4060, 4062, 4063, 4064, 4065, 4067, 4068, 4069, 4070, 4071, 4072
data capture 2714, 3383
data check 855, 3375
Data integration hub 690, 703, 707, 735, 743, 746, 748, 756, 760, 761, 765, 770, 775, 780, 783, 785, 787, 794, 795, 796, 799, 800, 802, 806, 822, 825, 829, 831, 832, 841, 845, 846
data management 949
data protection 949
data record selection 550, 553
data selection 82
Data sources 684
data stores 429
data structure 2575
data window 1061
Database 855
database parameters 154
database server 62
Database test 852, 867

© 2026 Boyum IT Solutions A/S

database views 4072
DataWindow 1061
datawindow syntax 539, 2998
Date format 505
Date of expiration 2667
date of receipt 340
day off 3307
day template 605, 3328
day templates 417
Debug 3348
debug log 3337
debug window 3337
decimals 85
decision tables 2955, 2989
default batch status 364
default item 1373, 1431
default script 894
default settings 165
default shift 3247, 3265
define assembly data 2241
define cost rates 2050, 2052
define picture 2842, 2844, 2847, 2856, 2873
define scenarios 2491
define UDF 95
Definition Data Target 682, 687, 695, 697, 702, 703, 705, 707, 712, 713, 735, 743, 746, 748, 756, 760, 761, 765, 770, 775, 780, 783, 785, 787, 794, 795, 796, 799, 800, 801, 802, 806, 812, 822, 825, 829, 831, 832, 834, 841
defragmentation 56
delete object 2925
deleting objects 2925
deliver 1206, 3525, 3912
deliver provision 2776
delivery 3752
demo 68, 954
demo license 954
deprecated features 56
description 1375
design 119
Desktop 320
Desktop Terminal 387, 943, 2714, 3382, 3383
detailed planning 2571
Detailed scheduling 4003, 4004, 4006, 4007, 4008, 4009, 4010, 4012, 4013
details 531
determination 513
determine actual time 3296
determine lead time 1956
determine procurement method 1522
determine serial number 1424, 1543
Development 906, 909
Deviations 4052, 4054, 4055
device requirements 66
device type 412
DI-API 502
Difference BOM 1748
difference posting 1905
DIH 684, 703, 707, 735, 743, 746, 748, 756, 760, 761, 765, 770, 775, 780, 783, 785, 787, 794, 795, 796, 799, 800, 802, 806, 822, 825, 829, 831, 832, 841, 851
dimensions 2990
direct material 1139
direct wage cost 1139
disabled reservation 308
disassembly 1591
disclaimer 36
dispatch forward 2601
dispatch work sequence 2573
Dispatches 1990, 2006
Dispatches (Detail) 2008
dispatching index 247
Display 200
display customer orders 2433, 2442
Display per in precalculation 1234, 1339
display settings 167
Display unit in precalculation 1234, 1339
distributed server landscape 870
Distribution 393, 1122
distribution base 1091, 1147
distribution key 1135, 1137, 1147
distribution keys 1100
distribution rules 1100
Document 2403
Document setting 511, 512
document settings 176
document type 2645, 2661, 3903
document types 1573, 2612
Documentation 34, 3375
documents 323, 1565, 1972, 2645, 2663, 2946, 3288
Don't clock 3322
double click 91
dropdown 87, 1046
dropdown-List 87
duplicate BOM 1751
duration 3087

© 2026 Boyum IT Solutions A/S

DW 1061

- E -

EAN 3616, 3709, 3775, 3780, 3795
EAN-128 3616
edit 2634
edit a task 893
Edit absence 3278
edit add-on 996, 3364
edit app functions 910
edit bill of materials 1580
Edit BOM 1580, 1748
edit BOM position 1582
edit cross reference 2133
edit external goods receipt 2786
edit ID field 3377
edit internal complaint 2468
Edit interruption 596
edit inventory 1922
edit item 521
Edit Material group 529
edit measurement positions 2692
edit monthly quota 3284, 3287
edit period rule 3313
edit personnel data 3243
Edit personnel master data 3249, 3253
edit planning 2491
edit pool 3536
edit project 2410
edit project activity 2421
edit project template 671
Edit Purchase request 3191
edit QC document 2700
edit QC inspection plan 2671, 2672, 2674
edit QC order 2630
edit quality control templates 2707
edit raw material 550, 1400, 1490
edit resource 1808, 1990, 2384, 2388
edit rights 3253
edit routing 1767, 1808, 1817, 1818, 2346, 2384, 2388
edit routing position 1759, 1771, 1792, 1802, 1807, 1812
edit shit model 3258
edit stocktaking 1902, 1903
edit task 673, 2414, 2416
Edit templates 112
edit tool 1960, 1961, 1962, 1965, 1967, 1971, 1972, 1974, 2056
Edit units of measure 532, 535, 539
edit user beas 489
edit wage types 3284, 3287
Edit warehouse 361
edit warehouse master data 1826
edit web user 948
edit work order position 2249, 2395, 2398, 2402, 2403
edit work order positions 2253
editing rights 3255
editor 124, 126, 3362
efficiency rate 2016
Email 454, 458, 459
email server 460
email setup 485
employee planner 2016
End date 3578
end of support 56
End-Year Closing 1193
enter attendance time 3274
enter counting 1919, 1920, 1921, 1922, 1924, 3528
entry remark 1195
ERES 41
error message 3375
e-signature 4098
evaluation 2012
event control 1069, 1076
event handling 1002
event.xml 1076
events 1070, 1071, 1075
EXCEL 684
execute beas script 935
execute own scripts 928
execute script 894, 895, 2689
executescript 935
execution 895, 896
Execution Overview 4015, 4016, 4017, 4018, 4019
existing 2645, 2663
expand 2481
expansion 2481, 2484
Expendable material 2057
Explode bill of materials 1490, 4085
export menu 87
Export product costing analysis (Crystal) 2114
exporting objects 2923, 2924
Extended 1278, 1324, 1375, 2273
extended calculation 583

© 2026 Boyum IT Solutions A/S

extended information 3603
Extended production 1369
extended rules Reservation 2135, 2150, 2154, 2167, 2175, 2182, 2187, 2197, 2776, 3397, 3414
extended settings 945, 2377, 3255
extended tab 1616, 3269
extended UDF's 1342
extended view 1335
extension 3372
external 311, 2088
external configurator 318, 325, 2941, 2943
external maintenance 3199
external material issue 2786
external operation 312, 1300, 1358, 2350, 2760, 2785, 3584, 3586
external operation goods receipt 315
external operation sequence 1767
External operations 3912, 3919, 3925
external processing details 1342
external production 312, 1767, 2759, 2774, 2776, 2790, 2793, 3587
external supplier 2786
external work order 1342

- F -

Factory Calendar 605, 2023, 2471, 3328
Factory Data Capture 238
Factory States 4041, 4042, 4044, 4045, 4047
fast logoff 387
FDA 41
FDC 238, 247, 249, 253, 254, 255, 974, 3249, 3379, 3541, 4112
Feedback view 254
fenstereinstellugen 100
field 4107
field definition 116
Field visibility rule 3709, 3780, 3795, 3810, 3822, 3839, 3853, 3868
fifo 278, 340, 4124
FiFo booking 4127
file 3220
filter 432, 3961, 3973
Final costing 555, 2445
final remark 1195
final steps 1128
Financial data 1118, 1166, 1167
financials 194, 196, 1082
finished part 1358
Fixed Filters 3128
Flexible lunch break 3229
flextime 3226, 3315
Flextime account: second 3235
Flextime accounts 3233, 3234
Folio Numbering 482
Font 174
forecast 347, 3071
Forecasts 3197
Foreign 1375
form 443
form settings 3352
Form Texts 480
formatting 126
Formpak 56
formula element 2952, 2984
formula icons 1363, 1483, 1591, 1759, 2971, 2976
formula list 2976
formula structure 2952, 2984
formulas 539, 2952, 2971, 2984, 2988, 2998
forward 2475, 2479
forward scheduling 2475
FTP 402
full cost 1962
full cost surcharge 370
full costs 4108, 4113, 4117
full view 2574
function buttons 1020

- G -

G/L Account 513
GAMPS 41
gantt 967, 2502, 2506, 2511, 2532, 2543, 2545, 2563, 2574, 2601
gauge 3951, 3957, 3960, 3965
GDPR 38
General 1261, 1379, 2255
General authorizations 502
general data 1400
general settings 165
general tab 1599, 2355
generate item 515, 517, 1373, 1431
generate own reports 2457
generate tables 469
GMP 41
Goods issue 3709, 3780
goods issue external 3586

© 2026 Boyum IT Solutions A/S

Goods PO single 56
Goods receipt 355, 1343, 1358, 2786, 3450, 3503, 3717, 3775
goods receipt external 2785, 3584
goods receipt functions 355
Goods receipt PO 971, 1343, 3450, 3503, 3721, 3919
goods receipt price 340, 4124
goods receipt purchase 1342
Graphic 1961
graphic utilization 2582
graphic view 2543, 2545, 2564, 2566, 2569, 2570, 2571, 2572, 2573, 2574
graphical 2563
graphical view 2502
Gross calculation 3073
group functions 2569
GRPO 971
GS1 3616, 3709, 3775, 3780, 3795
GXP 41

- H -

HANA conversion 852
HANA Converter 1000, 1001, 3362, 3370
HANA Script 3370
hardware requirement 61, 133
header 2842, 2844
Help 181
hg 199
histogram 2572
history 122, 1888
HK2 1144
holiday 417, 3322
hosted cloud 48
hosted environment 65
Hot keys 69
hourly report 3303
hourly surcharge 3317
HR 384
HR master data 3305
HTML 3348
Human Resources 3224, 3225

- I -

icon 122
icons 3139, 3140, 3154
Icons Reservation 2143, 2155
idle time 325, 2016, 2486
image 2847, 2856, 2873
image selection 108
immediate posting 602
impor tab 897
import 684, 687, 695, 697, 702, 703, 705, 707, 712, 713, 735, 743, 746, 748, 756, 760, 761, 765, 770, 775, 780, 783, 785, 787, 794, 795, 796, 799, 800, 801, 802, 806, 812, 822, 825, 829, 831, 832, 834, 841, 845, 846
import definition 682, 690, 851
import formats 682
import production activities 1164, 1165
import stock 1913
importing objects 2923, 2924
Incoming invoice 2760
individual 109
industrial minutes 385
inflow 3140, 3155
information 3733, 3767
initial stock 1897, 1899
input 1570
Input by sample 2630, 2633, 2634
input by test 2612, 2635
input per sample 2612, 2618, 2624
input values 2637
Inspection 2677, 2680, 2692, 2698, 2699, 2700, 2703
inspection master 2674, 2686
inspection plan 1572, 1573, 2605, 2610, 2670, 2713, 3591
install 3947, 3948
install license 954
installation 148, 2714
installation file 143
installation instructions 133
Installation Terminal 2714, 3383
installer 141
Instant order 589
integrated bin location management 1361
integrated item master 1361
integration 1004
intermediate report 255
internal 311
internal complaint 2467
internal HTTP server 870
internal maintenance 3199
interruption 1967, 2006, 2062, 3834, 3837

© 2026 Boyum IT Solutions A/S

interruption reasons 594, 2060
interruptions 2060
Introduction 32
inventory 521, 1453, 1533, 1823, 1824, 1901, 1948, 3069
inventory change log 1920
inventory count 1893, 3728, 3730
Inventory data 1389
inventory history 1429, 1436, 1445, 1447, 1448, 1450, 1451, 3518, 3733, 3951, 3971
inventory license 972
inventory list 1905
Inventory location 1843
inventory location management 1824, 1826
inventory settings 361
inventory transaction 1865
inventory transfer 2175, 3169, 3185
issue 256, 969, 1453, 1865, 1948, 3422, 3436, 3473, 3487, 3925
issue from external warehouse 2182
issue item 1879
issue manually 1879
issue mode 3725
issue provision parts 315
issue quantity 3544
Issue window 2133
issuing 2187, 3414
item 199, 3951, 3971
item batch change 1434
Item Bill of Materials Single Level 3331
item configuration 1567, 1569
item creation 1373
item creation settings 319
item creator 318
Item cross-reference 1460
item generation 2812
item group 198
item ID 1577
item list 1429
item management configuration 202
item master 202, 1381, 1389, 1393, 1399, 1400, 1404, 1405, 1406, 1416, 1417, 1419, 1424, 1426, 1428, 1429, 1482, 1483, 1522, 1526, 1530, 1533, 1539, 1543, 1544, 1547, 1550, 1552, 1556, 1557, 1558, 1567, 1572
Item master data 1361, 1369, 1379, 1386
item master data - general 1490
Item master header 1363
item placement tool 1013, 1020, 1028, 1046, 1051
item quality control 1573
item status management 1562
item structure 1462, 1470
item structure report 1478
item structure view 200, 1462
Item Text 481
item valuation method 340, 4124
item version 1416, 1565
item version control 1558
I-version 207, 1416, 1451, 1577

- J -

Journal 1456
journal entries 1857, 2403
journal entry 2103

- K -

KABA 56
key 4107
key combination 69

- L -

labor cost rate 2036
Language 183, 507, 510
Language for report 482
languages 35, 431, 504, 505
last 4099
last maintenance 1969
last position 2793
lead time 214, 345
leave 3394
leaving 3392
license 955, 962, 964, 968, 2714
License administration 978
License assignments 982
license check 952
License concurrence of Users 962, 969, 971, 972, 973, 974, 976, 988, 992, 2714, 3353, 3383, 3933
License connection 984
license management 3382
license rule 967, 969, 971, 973, 974, 976
license rules 962, 969, 972
License Terminal 2714, 3383
license type 957

© 2026 Boyum IT Solutions A/S

lightweight 141
limitations 51
Link 2195, 2402
link batches 2129
link serial numbers 2129
Link WO item 2131
Linkage source target 687, 695, 697, 702, 703, 705, 707, 712, 713, 735, 743, 746, 748, 756, 760, 761, 765, 770, 775, 780, 783, 785, 787, 794, 795, 796, 799, 800, 801, 802, 806, 812, 822, 825, 829, 831, 832, 834, 841, 845
linked Documents 3540
list 3525, 3863
list of formulas 2976
list of products 321, 2944
lists 98, 109
LMC 1144
load status 3703
location 413
log in 3391
log out 3394
logical links 539, 2998
login 249, 387, 389, 3252, 3392, 3703
logoff 249, 254, 3392, 3394, 3703
logon 249, 3703
logout 249, 387, 3703
Loop macrostep 462
lot size 1230
Lot size in precalculation 1234, 1339
LUID 400
LUID lock 2155, 2164, 2165
Lunch break 3229, 3323

- M -

machine group 1993
machine setup costs 2034
machinery costs 2034
Macro 433, 437, 438, 2120
macro definition 466
Macro Editor 3361
Macro name 440
macro output 449, 452, 454, 458, 459, 460, 466
Macro recorder 3363
macro setup 437
Macro Step 443
Macro structure 437
macros 447, 449, 454
main menu functions 3352
Maintenance 311, 968, 1954, 1971, 3220, 4060, 4062, 4063, 4064, 4065, 4067, 4068, 4069
Maintenance calendar 4069, 4070, 4071, 4072
maintenance edit 3202, 3205
maintenance history 3214
maintenance list 3200
maintenance order 1971, 3216
maintenance order components 3213
maintenance order edit 3222
maintenance order terminal 3214, 3592
maintenance plan 3216
maintenance tab 1970
manage activities 1080
manage parameters 1556
manage project activities 2421
manage resources 1990
manage routing 1753
manage server 893, 3098
manage station 402, 407, 412
managing databases 1067
manual bin correction 1864
manual calculation 2395
manual definition 3267
Manual entries 358, 1865, 3422, 3436, 3473, 3487
manual entry 1922
manual posting 1882
manual QC order 337
manual receipt 1880
manual shift 3267
Manual time entry 3272, 3274, 3277, 3278
manual transfer 1881, 3501
Manufacturer info 553
manufacturing costs 4129
manufacturing data 1406
manufacturing date 340
marginal cost 1962
marginal costs 4108, 4113, 4117
marketing 3335
marking functions 2569
mask 389
Mass change BOM 1742
mass changes 1854
massive serial input 3721
Master data 214, 1520
Master data Item 1482
master data setting 199
master data tab 2228

© 2026 Boyum IT Solutions A/S

Master data_cost sheet 1131
material 1253, 1289
material charge off 2187, 3414
Material costs 374
material group 223, 527, 528, 530, 531
Material group settings 223
material in WIP 4129
material issue 3544, 3795, 4078
material master 1253, 1289
material overheads 4133
material posting 256, 3544, 4078
material posting settings 298
material postings 2090
material pricing 370, 1253
Material requirements 236, 2125
material reservation 3853
material result 1253, 1291
material scale 1253, 1287
material selection 2165
material serials 308
Material transfer (Allocation) 2167, 2776, 3397
materials 345
Materials management 345
Matreqrep 2127
Max. Utilization 589
measured value input 2637
measurement 2624
measurement per test 2635
measurement position 2630, 2633, 2634, 2680, 2690
measurement positions 2686, 2689, 2698, 2699, 2700
Menu 82
merge batches 1884, 3465
Merge work order 3195
milestone 2431
milestone progress list 2460
Milestones 2429
minimum inventory 3039, 3043, 3106
modify tool 1954
module configuration 1008, 1012
modules 194
monthly quota 3289
monthly quota month 3282, 3284
monthly quota year 3282, 3284
Monthly values 1164, 1165, 1166, 1167, 1169, 1171
move work sequence 2570
MPS 3026, 4110
mrp 347, 1393, 1405, 3015, 3022, 3025, 3039, 3043, 3065, 3071, 3074, 3079, 3084, 3087, 3088, 3091, 3104, 3105, 3106, 3140, 3154, 3156, 3197
mrp 2 3015, 3079
MRP Alternative 3171, 3176
MRP analysis 3102
MRP calculation 3084
MRP current income 3172
MRP Detail tab 3037, 3038, 3039, 3045, 3047, 3057, 3060, 3065, 3069, 3073, 3078
MRP Filter 3125, 3128
MRP massive mode 3106, 3135
MRP pre-assign 3106, 3136
MRP Price 3174
MRP right mouse click 3125
mrp setup 345
MRP Warehouse 3183
mrp wizard 350, 3022, 3025, 3026, 3065
MS Project 56
MSSQL 2008 56
MSSQL Editor 3368
multi-branch solution 1082
Multi-language 183
multiline bar codes 3616
multiple batches 3597
multiple selection 85, 2516, 2531

- N -

Navigation area 2804
Negative 4110
negative BOM 1261, 1599, 2255, 4110
new entry 1901
new variant 2804, 2818
news update 3374
no confirmation 374, 381
notification 3039, 3043, 3106
Number creation 224
Number format 505
numeric functions 539, 2998

- O -

obejct-type header 2830
object analysis 1177
object-type 2851
object-type block 2847
object-type parameter 2856

© 2026 Boyum IT Solutions A/S

object-type seleciton 2873
OEE 4031, 4032, 4033, 4035, 4037, 4039
offcut 4142
offline 955
Offline help 180
offline license 956
online help 3375
open Beas window 1066
open documents 1857, 1858
Open form 1066
open WO positions 2462
openform 1066
operartion 3951, 3955
operation 1324, 2088
operation catalog 621, 622, 623, 624, 644, 654, 658, 660, 664, 669, 670, 673
operation list 3770
operation sequence 2376, 2377
operation tools 2378
Operation type set 619
operation types 616
operation utilities 2383
order 3156
order logon 3249
order multiple 1522
order recommendation 345, 350, 3015, 3026, 3140, 3154
order recommendation date 345
Order recommendation Info Area 3171
Order recommendation list 3104
Order recommendation produce 3166
Order recommendation purchase 3156
Order recommendation Report 3106
Order recommendation requirement 3140
order recommendation view 3105
Order recommendations 3139
Order time receipt 2723, 3559
order times 3578
order-related assembly 2432
orders 3199
origin of requirement structure 3155
outflow 3140, 3155
Outflow of production 1830
output 1570
output format 433
Output Formats 466
Overall Equipment Effectiveness 4031, 4032, 4033, 4035, 4037, 4039
overflow account 3234
overhead cost 4112
overhead costs 561, 562
overhead order 609
overhead surcharge 370
overheads 4129
Overlap Limit 624, 1304, 1771, 2355, 2533
overtime 3235, 3312
overtime pay 3233
overtime reduction 3233
overview 3104
overview tasks 2414
own reports 429, 1429
own work order report 2456

- P -

P/L Statement 1160, 1176, 1177
parallel 1808, 2384, 2679, 4137
Parallel operations 624, 1304, 1771, 1819, 2355, 2533
Parallel resources 1819
parameter 447, 2830, 2856, 2873, 2882, 2926
parameter copies 2403
parameters 2403
partial picking 1005, 2197
Partial Receipt 255
Parts submitted 2796
Pattern 306
pc 148
PDC 976
pegging 3039
peggings 3084
performance recommendations 51
period rule 3226, 3233, 3247, 3310, 3312, 3317, 3322, 3325, 3327
period rules 3305
Personal data report 949
personnel 384, 3224, 3227, 3253
personnel costs 2034
Personnel Groups 3330
personnel list 3237, 3247, 3255
personnel master 940, 3330
personnel master data 3237, 3243, 3247, 3256, 3257, 3270, 3274, 3277, 3278, 3288
personnel number 3242
Personnel Orders 3280
Personnel planning 3299
personnel reports 3303

© 2026 Boyum IT Solutions A/S

Personnel time analysis 3290, 3293, 3296
PFSB/ELD 41
Phantom 1490, 4085
phase-in component 1558
phase-out component 1558
PIC/S 41
Pick list 3525
Picking 400, 1007, 3525
Picking list 3739, 3746, 3752
Picklist 1005, 2197, 3739, 3746, 3752
placeholder 1066
placeholders 429
Plan time calculation 1820
planned activities 893, 895, 896
planned activity 894
planned capacity 417
planned costs 374, 4117
planned hours 3395
planned times 2582
planning 347, 1393, 1405, 2023, 2376, 2578
planning data tab 1522
planning scenarios 1522, 3022, 3025, 3065
planning types 2474
planning view 2491, 2493, 2502, 2506, 2511, 2516, 2527
PO goods receipt 337
POI 482
pool control 2471, 2578, 3530, 3536
Pool Factor 589
pool limit 2016
pool list 3530, 3536, 3878
Pool report 247, 3878
Pool Structure Report 2579
pooling 325, 2577, 2579
Poollist 247
portal 952
position level 2978
positions 3951, 3952
post calcualtion price 340, 4124
post calculation 2445, 2446
post finished items 298
post in an item 1880
post-calcualtion price 340, 4124
post-calculation 368, 575, 2112, 2451
Post-calculation cost centers 2454
post-calculation results 2455
posting differences 1916
posting of assembly 4133
posting price 340, 4124
Posting settings 304
postings 4127
Powerbuilder 1061
pre-allocation 262, 3544
pre-allocation Reservation 2135, 2150, 2154, 2167, 2175, 2182, 2187, 2197, 2776, 3397, 3414
Preassign 2135, 2150, 2197
pre-assign 2135, 2150, 2197, 3106, 3136
precaculation 1291
Precalculation 1223, 1243, 1248, 1253, 1261, 1278, 1281, 1285, 1287, 1289, 1291, 1296, 1300, 1304, 1324, 1334, 4100, 4113
pre-calculation 368, 369, 561, 562, 586, 591, 1223, 1230, 1335, 4108, 4113
Pre-calculation Batch 1927
Precalculation control 1232, 1234
Precalculation edit 1225
Precalculation functions 1239
Precalculation header 1247
pre-calculation header 1244
pre-calculation pricing 532
Precalculation right-click 1242
Pre-calculation save 572
pre-calculation script 575
pre-check 1916
pre-defined variables 2958, 2996
preferred vendor 1526
preliminary costing 555
prerequisites 3947
presence recording 3225
Present currently 3236
preview 3360
Preview BEAS form 466
price 278, 1281, 1570, 2933
Price BoM 2345
Price factor 2760
Price List 1547
Price list consider 1767
price valuation 1925
pricing 278, 340, 358, 4124
pricing types 1550
primaryspace234 3377
print 427, 3639
print documents 433
Print macro 437
Print SAP document 1217
print settings 191
print setup 191

© 2026 Boyum IT Solutions A/S

Print solution 3635
Printer 452
printer drivers 452
printer location 413
priorities 223, 325, 605
priority 589, 2481
priority control 345
Process presence time 3277
processing time 214
Produce 1490, 4085
Product 3331
product configurator 320, 1567, 1569, 2804, 2818, 2931, 2968
Product configurator - Bills of materials and operations 2968
Product configurator - Formula syntax 2969
Product Configurator - References 2948
Product life cycle 44
Product overview 32
production 223, 224, 253, 337, 1989, 2431, 3422, 3436, 3530, 3536, 3543, 3951, 3957
Production - Display 234
Production activities 1120, 1171
Production Analysis 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985, 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995
production apps 3529
production cockpit 158, 3002
production configuration 318
production data 1426
production data collection 976
Production lot size 1406, 1490, 4100, 4104
Production merge work order 3195
Production order 2067
production overheads 4133
Production Planning 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4006, 4007, 4008, 4009, 4010, 4012, 4013, 4015, 4016, 4017, 4018, 4019, 4020, 4021, 4023
Production registration 238
Production request 3193
Production Scheduling 4057, 4058
Production settings 223, 312
Production Time 238, 2750, 2753, 3280
production time administration 3541, 3577, 3578, 3579
Production Time Receipt 2723, 2754, 3541, 3559
production type 592, 671
production type edit 611
Production types 223
productivity 2012
Productivity Overview 4020, 4021, 4023
Produmex 1004
program group 941, 943, 945, 3305, 3382
Program group administration 947, 948
program group terminal 940
Program groups 906, 907, 910
project 2408
project activities 2421
project administration 316, 317
project attachment 2426
project budget 2420
project cost type 673
project cost types 677
project information 2231
project management 969, 2231, 2408, 2410
project order 678
project purchase items 2421
project sales items 2422
project tasks 673, 2414, 2416
project template 671, 672
projection 278, 4122
properies 1428
Properties 1552
properties tab 1552
proposal date 3088, 3156
protocol 3358
provision parts 2182, 2774, 2789, 3586, 3587
provisions 3912, 3919, 3925
proxy 912, 918
pseudo item 1490, 4085
public cloud 141
public holiday 385
purchase item 2421
purchase order 971, 1359, 2125, 3721
Purchase order (Extern) 2762
Purchase order (external operation) 2796
purchase order and provision 2790
purchase price 1253
Purchase request 350, 2125
Purchase request beas 3186
purchase request settings 352
purchase return 2645
purchase warehouse 337
purchasing data 1381, 1526

© 2026 Boyum IT Solutions A/S

- Q -

QC 332, 333, 337, 338, 339, 340, 973, 1572, 1573, 2610, 2612, 2618, 2624, 2635, 2643, 2698, 2699, 2700, 2707, 3589, 3591, 3887, 3895, 4047, 4048, 4049, 4050, 4051, 4052, 4054, 4055
QC activities 2645
QC documents 2641
QC groups 2633, 2634
QC inspection 2670, 2671, 2672, 2677, 2680, 2686, 2689, 2690, 2692, 2711
QC inspection plan 338, 2641, 2664, 2665, 2679, 3589
QC Measurement positions 339
QC order 339, 2605, 2689
QC orders 2089, 2665, 3589
QC plan 2605
QC Samples 339
QC template 2703
QC Transfer 2645, 3903
QC valuation 2713
qty 4152
Quality Control 332, 333, 337, 338, 339, 340, 973, 1572, 1573, 2605, 2610, 2612, 2618, 2624, 2630, 2633, 2634, 2635, 2637, 2643, 2645, 2661, 2664, 2665, 2670, 2671, 2672, 2674, 2703, 2711, 2713, 3332, 3589, 3591, 3887, 3895, 3903, 4048, 4049, 4050, 4051, 4052, 4054, 4055
quality control documents 2641
quality control order 2089
queries 3368, 3370, 3371
Quick Input 2754, 3541
Quick input tab 3541

- R -

raw material 222, 539, 550, 1400, 1490
raw material info 550, 1400, 1490
read from portal 954
re-allocate forward 2601
reason 2612, 2618, 2624
recalculate pools 2577
recalculate schedule 2570
recalculation 2570, 3299
Receipt 969, 1865, 3422, 3436, 3473, 3487
receipt mode 3717
receipt reservation 308
received quantity 3721
recovery time 2058
reference 2949, 2951
references 3375
refresh work order 2404
register 2679
register license 955
register per test 2637
regular inventory 1919, 3528
Rejections 4048, 4049, 4050, 4051
release 2680
Release I-version 1559
Release notes 32
reload apps 3597
remarks 1429, 1552
remove 145
replenishment 3185
report 428, 443
report definition 3293, 3320
report per day 3299, 3303
report settings 191
report setup 191
report time 2046
Report: output language 482
reports 1178, 1179, 1181, 2516, 2528, 4112
reports production 2466
request 2175
requirement coverage 3091
Requirement list 2143
requirement structure 3155
requirements 133
reservation 1453, 1948, 2080, 2165, 4134
Reservation customized extensions 2135, 2150, 2154, 2167, 2175, 2182, 2187, 2197, 2776, 3397, 3414
Reservation Header 2143
Reservation Icon 2143, 2155
Reservation Inventory list 2155
Reservation settings 2133
Reservation system 2135
Reservations 3863
Reservations window 2133
reserve 3853, 3863
reserve invoices 1359
reserve serial numbers 2094
reserved 2155, 2165
reserved serial numbers 2095
resource 220, 2000, 3951, 3960, 3961, 3965, 3968
resource allocation 2481

© 2026 Boyum IT Solutions A/S

resource domain 1993
Resource Edit 2014
resource filter 2499
resource group 1993, 1997
Resource groups 1993
resource optimization 4137
resource requirement 3079
resource selectable 3249
resource utilization 2572
resource-optimized 2571
resources 1819, 3073, 3084
restore bin location stock 1861
Results 1176, 1177, 1181, 1182, 1193
RFID 4135
right-click menu 87, 1369, 1462, 1470, 1557
right-click WO 2071
rights administration 3253
rights extended 503
rights management 490, 502, 503
Rounding 4138
rounding rule 3312, 3313, 3315
Routing 212, 1754, 2348
routing edit 1291
routing head settings 212
routing position 1753, 1756, 2088, 4099
routing position settings 213
RTF 126, 1195
rules 2686
runtime 954, 955

- S -

sales 196, 1386
sales data 1530
sales items 2422
sales order 609, 1196, 3739
Sales order Filter 3038, 3047
sales order to production order 3015, 3022
sales order to work order 2432, 2433, 2442
same start and finish date 2016
sample 2618, 2624
samples tab 2665, 3589
SAP 35, 1361, 1369, 1379, 1389, 1399, 3628, 3709, 3717, 3739, 3757, 3780, 3795, 3810, 3822, 3839, 3853, 3868, 3912, 3925
SAP B1 rights 502
SAP Bin 1443
SAP Bin management support 3709, 3717, 3757
SAP Business One Cloud 133
SAP buttons 77
sap documents 433
SAP message 459
SAP Personnel master 3242
SAP-ZERTIFIZIERT 41
save 572
SBO 3374
SBO Import 1164
SBO mailer setup 459
SBO Menu 3337, 3352
SBO menu tool 3358
SBO users 483
scale prices 1253, 1287
scan 3631, 3839
scanner 3595, 3597, 3616
scanner installation 3628
Scanner Reservation window 262, 2135, 2166, 2167, 2182, 2187, 2776, 3397, 3414
schedule specification 2471
scheduling 1405, 2023, 2376, 2475, 2479, 2493, 2516, 2525, 2527, 2577, 2578, 2579
Scheduling tab 1960
schema 1253, 1289
SCM 3038, 3047
scrap 644, 1261, 1324, 1599, 1792, 2255, 4143, 4144
scrap factor 4142
scrap factors 548
Scrap of material 644, 1324, 1792, 4144
scrap quantity 548
scrap reasons 592
script 2926, 3367
script assistant 1000, 1001, 3362
script editor 1000, 1001, 3362
script post-calculation 583
script precalculation 577
search 82
Second flextime account 3235
secondary time 214
select 85
selection 85, 108
serial 1424, 1450, 3603
Serial detail 1977
Serial Extended Information 3608
serial inventory info 3725
serial number administration 1975, 2095
Serial number counter pattern 306
serial number reservation 304

© 2026 Boyum IT Solutions A/S

Serial number template 4080
serial number tracing 1978, 1982
serial numbers 2195
serial tracing 365, 1978, 1982
serial-managed item 1424
serial-number items 1424, 1543
serials 345
serials settings 304
Server examples 900
server landscapes 887, 897, 902, 912
server management 870, 887, 897, 902
server sizing 62
Service 3199
service call 2424
service contract 2424
Service pool 887
Services 166
sessionname 65, 402, 4147
set account 1105
set cost rate 2043
Set output language(report) 482
set-object 2851
settings 1086, 1090, 1091, 1097, 1100, 1102, 1105, 1106
settlement structure 1177
setup 482, 483, 513, 554, 588, 671, 680, 1086, 1090, 1091, 1097, 1100, 1102, 1105, 1106, 3639
setup beasService 887
setup costs 2043
setup inventory 515
shelf 1839
shift definition 3226, 3231, 3310, 3323, 3327
shift model 3256, 3257, 3261, 3262, 3264, 3265, 3267, 3269, 3270
shift schedule 605, 3262
shift scheduling 3227, 3231, 3323, 3325, 3327
Shift scheduling automatic 3228
shift structure 3327
Shortage 2529
shortcuts 3372
show picture 3543
sickness 3307
single sales 962
single variant 1343, 3450, 3503
skin style 167
SLD 141
SMTP 460
SO 1196
Software Quality 41
software requirements 68
sorting rules 702
Source - Target 846
source target link 851
space 3377
special forecast 3026, 4110
special signs 3377
split assembly 2078, 2123
split batch 1888
SQL 56
SQL Editor 1000, 1001, 3362, 3368
SQL HANA Converter 3370
SSCC 3795
standalone 145
standalone options 145
standard cost method 1925, 3377
standard costs 278, 3377, 4119
standard price 340, 4124, 4127
standard work hours 3317
Start date 3578
Start interruption 2063, 3573
start macro 462
start up 145
startup 145
stat 897
statement cycle 1091, 1108, 1131, 1133, 1137
station 65, 402, 4147
station setting 402, 407, 412
station settings 415, 3360
status 3392, 3395
status information 3703
status settings 317
status types 2231
stock account 4131
stock corrections 361
stock overview 1436, 3518
stock revaluation 1925, 1946
Stock settings 175
stock transfer 2175, 3757
stock transfer request 3762
Stock undercut 315
Stock-related 1490, 4085
stocktaking 361, 1893, 1896, 1899, 1901, 1902
stok on bin location 1883
Stop interruption 2065, 3575
Storage Area 1839
storage method 361
storage order 609

© 2026 Boyum IT Solutions A/S

store documents 2056
store item 1880
store personnel password 3252
store raw material 550
stored reports 429
structure 34
structure display 1193
structure export 1478
structure operation 2084
structure refresh 2404
structure view 99, 2067
structure work order 2067
Sub-assemblies 374
subview 2506
Summarized scheduling 3997, 3998, 3999, 4000, 4001, 4002
summary 1182, 1191
supplier selection 350
Supplier valuation 680, 681, 682
surcharge calculation 369
surcharge object 530
surcharge rate 1082
surcharges 530, 597, 602
surcharges tab 531
synchronize personal data 949
syntax 2926
sysartgen 517
system development window 3372
system functions 82
System information 3337
system initialization 166
system properties 3367
system requirements 3595
system script 3367
system setup 393

- T -

table 2990
table structure 2575
Tables 2955, 2971, 2989
target bin 3757, 3762
target warehouse 3721, 3757, 3762, 3868
task catalog 671, 672, 673
Task examples 900
task scheduler 4148
tax group 1526
TC20 3595, 3597
template 684, 2707
template administration 111, 113, 115, 118, 119, 122
template menu 87
templates 113, 115, 118, 119, 121, 122, 3530, 3536
terminal 594, 943, 2714, 2750, 3305, 3353, 3360, 3379, 3382, 3391, 3396, 3525, 3529, 3589, 3595, 3616, 3628, 3635, 3703, 3709, 3717, 3721, 3725, 3728, 3730, 3733, 3757, 3762, 3767, 3770, 3775, 3780
terminal 2.1 3709, 3739, 3746, 3752, 3780, 3795, 3810, 3822, 3839, 3853, 3868
terminal application 4149
terminal apps 3305, 3530, 3536, 3543, 3597
terminal apps catalog 937
Terminal for shop floors installation 133
terminal install 148
Terminal License 988, 2714, 3383
terminal logon 387
terminal meintenance 3214, 3592
terminal mode 148, 1067, 3216
terminal settings 941
terminal setup 148, 415
terminal20 937
Termnal 2714, 3383
test 2952, 2984, 2988
text Components 429
text description 2842, 2844, 2938
text edit 124
text editor 125
text file 1913
text view 125
textparameter 935
theme design 184
Time Analysis 3290, 3293, 3296
time area 3320
time based block 1954
time calculation 2956, 2994, 3231
Time category 220
Time deduction 3272, 3277
time domain 3313, 3320
Time evaluation 3253, 3289, 3290, 3293, 3320, 3394
time receipt 3539, 3810
time receipts 2067, 2107, 2348
time recording 3703
time recording app 3224
time recording license 974
time reservation 2006, 2484

© 2026 Boyum IT Solutions A/S

time specification 212
Time Synchronisation 2714, 3383
time types 212, 2029, 2046, 3810
timescale 2566
Tolerance days 1393, 1522, 3128, 4150
Tomcat 884
tool 654, 1296, 2062, 3834, 3837
tool administration 554, 1802, 1969
Tool assignment 554
Tool bar 69
tool capacity planning 1956
tool cost 1296
tool maintenance 1970
tool management 1951, 1970
Tool settings 222
tool tip 69
tool type 1296
tools 3352
tooltip preview 482
Total quantity 4152
trademark 36
transfer 340, 1881, 2612, 3501
transfer batch 1888
transfer document 3903
transfer via quality management 2610, 3591
transit time 325, 589, 2016, 2481, 2486
Transit Times 3987, 3988, 3989, 3990, 3991
translation 183, 478, 507, 510, 3950
translation tables 430
Transport price 2760
trial version 952
trigger 1069
trigger event 1013
turn off Macro system 432
two-man rule 4099

- U -

UCC 3616
UDF 222, 320, 339, 3368
udf item master data 202
UF 1052, 1055, 1056, 1057, 1059
UI 74, 79, 3649
uninstall 145
uninstallation 145
unique employee number 3243
Unit of measure 198, 532, 548, 1381, 1386, 1389, 1520, 1526, 1530, 1533, 4156, 4160
unit of measures 539, 550, 1400, 1490
Units of measure 479, 539
universal function 1052, 1055, 1056, 1057, 1059
Unproductive times 3983, 3984, 3985
uom 532, 535, 548, 1381, 1386, 1389, 1520, 1526, 1530, 1533, 4156
UoM group 4156
UoM groups 4160
update license 957
upgrade 3947
Usage Decision 1865, 3422, 3436, 3473, 3487
use factor 1956
user 947, 948
user administration 483, 487, 490, 504
user interface 74, 79, 3937
User interface generally 69
user setup 1013, 1020, 1028, 1051
user-defined fields 95, 3368
username 65, 402, 4147
utilities 852
utility 852, 1951
utility programs 855, 867
utilization 2471, 2481, 3079
utilization display 2582
UX 3649

- V -

vacation 3307
vacation days 3395
validation 41, 1013
valuation 277, 278, 301, 340, 1248, 2612, 2618, 2624, 4122, 4123, 4124
Valuation and posting 298
valuation and posting of assembly 2094
Valuation at postings 4127
Valuation BoM 2345
valuation method 2446
valuation of assemblies 358
valuation of assembly 278, 4119, 4131, 4133
valuation period 2446
Valuation settings 304
valuation tab 1244
values 2993
variable 2956
Variables 447, 2956, 2971, 2994
variant 1285, 1334, 1363, 1483, 1557, 1582, 1591, 1759, 2931, 2964, 2966, 2968, 2971, 2976

© 2026 Boyum IT Solutions A/S

variant generator 1291, 1759, 2952, 2956, 2958, 2960, 2971, 2976, 2984, 2988, 2990, 2993, 2994, 2996
Variant generator - Bills of materials and operations 2971
Variant generator - Overview 2970
Variant production 2941, 2943
variants 209, 318, 2952, 2960, 2984, 2988
variation costs 1965
vendor group 196
version 2.1 3595, 3597, 3628, 3635, 3703, 3709, 3717, 3721, 3725, 3728, 3730, 3733, 3757, 3762, 3767, 3770, 3775, 3780, 3810, 3822
version number configuration 44
Video 1490, 4085
view 184, 3337
View precalculation 1225
view settings 200
viewer 3332, 3333, 3335
visibility 1571
visual 2563
visualization 2532
Vorkalkulation 1223

- W -

wage 1163
Wage Data 1169
wage types 387
warehouse 1445, 1447, 1533, 3039, 3079
warehouse branch 1082
warehouse info 3733
warehouse inventory 3767
warehouse reservations 1453, 1948
warehouse rule 523
warehouse rules 1404
warehouse stock 1436, 3518
warehouses 553
warning message 3375
web 947, 948
Web app 3379
web application 943, 3382
web apps 2750, 3595, 3616, 3628, 3635, 3703, 3709, 3717, 3721, 3725, 3728, 3730, 3733, 3757, 3762, 3767, 3770, 3775, 3780, 3810, 3822, 3834, 3837
Web configurator 964
web pproduct configurator 3353, 3933
web product configurator 321, 323, 2944, 2946, 3937
Web Product Configurator Setup 2944, 2946
Web server 912, 3353
web setup 407
web solution 3353, 3933, 3937
web terminal 387, 388, 389, 390, 943, 3382
webapps 387, 388, 389, 390, 943, 3382, 3613, 3709, 3739, 3746, 3752, 3780, 3795, 3810, 3822, 3839, 3853, 3868
WebApps 2.1 3887, 3895
webconfigurator 937
week plan 3261
white paper 41
whitepaper 41
Window Customizing Script 3361
window settings 100, 104, 2116, 2466, 3352
Window System Properties 3361
Window System Script 3361
Windows reginal settings 85
windowsettings 100
WIP 292, 296, 1182, 1183, 1189, 4129
WIP account 4131
WIP costing 555
withdrawal from warehouse 1196
WMS 1004, 1005, 1007, 2155, 2164, 2165, 2197, 3603, 3607, 3775, 3839
WMS integration 2155, 2164, 2165
WMS settings 400
WMS warehouse 1004
wo 2112, 3853
WO backflush 2737, 3544
WO bar code 3540
WO cancellation 2096
WO fields 2406
WO list 2427
WO login 3770, 3822
WO Logon 253
WO material issue 2187, 3414
wo position 1756
WO positions 2237, 3839
WO post-calculation 2108
WO reports 2460
WO start 3770
WO stop 3822
WO structure 2078, 2090
WO structure view - Window settings 2071
Work center calculation 3229
work hours 3327

© 2026 Boyum IT Solutions A/S

work in progress 292, 296, 1189
Work list 2462
Work order 1989, 2067, 2080, 2093, 2094, 2095, 2107, 2108, 2112, 2129, 2175, 2231, 2255, 2273, 2345, 3775, 3780, 3795, 3810, 3822, 3839
work order backflushing 274, 2737, 3544
work order document 2221, 2223, 2228, 2231, 2232, 2233, 2237, 2241, 2406
work order issue by SSCC 3795
work order journal entries 2403
work order list 2218
work order logoff 3577, 3578
work order logon 3579
work order master 2249
work order overview 2237
work order position 2241, 3540
work order print 2120
work order refresh 2404
work order reports 2457
work order settings 223, 2233
work order status 158, 3002
work order structure 2071
work order structure view 2116, 2121, 2221
work order structure window 56
work order tab 2516, 2527
work order types 609
Work orders 2195
work orders list 2427
work sequence structure 2545
work station 413
work station setting 413
work station wizard 415
workflow 1118, 1120, 1122, 1124, 1128
working hours 3261, 3262

- X -

XAMPP 884, 912, 918
XML 695, 845
XML Attribute 697
XML import 690

- Z -

zebra 3595, 3597, 3717, 3721
Zebra TC20 3616, 3628, 3631

© 2026 Boyum IT Solutions A/S