

BEAS MANUFACTURING

2022.02 RELEASE NOTES

FEB 2022

2022.02 Highlights

Production

- Validate minimum or maximum quantity allowed for work order material issue

WebApps

- New Pool Report webapp, knows the operations planned to be performed on each resource.

MRP

- Try the new Beta option to calculate the coverage of the MRP: "By Date", now The MRP coverage calculation allows to prioritize by Date and not only by document as it was before, now a parameter allows to select as desired.
- MRP Coverage calculation enhancement: improved information fields in Coverage column, special for support purpose.
- Requirements for coverage of Precalculations improved

WMS integration

- Production goods receipt now support WMS batch attribute, allowing the user to enter data defined in WMS, currently only available in desktop apps.

B1UP Integration

- Beas Usability Package – Improved adding UDFs
- BeasFunction: PrintWorkOrder allows to print all positions

System

- Support to Crystal report changes for SAP FP2111
- Remove menu entries by XML automatically without restarting Beas

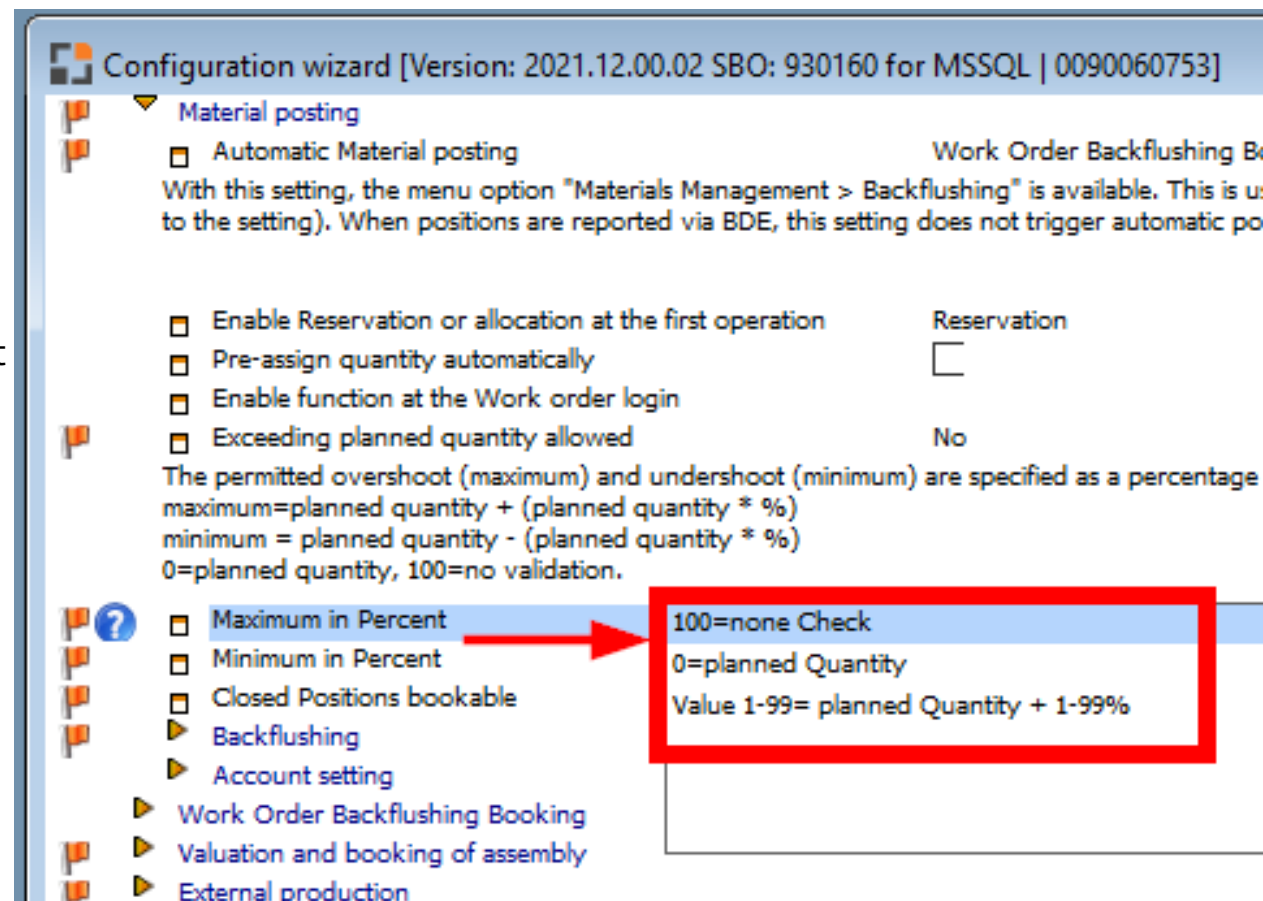
Production

Validate minimum or maximum quantity allowed for work order material issue

NEW functionality: Bill of materials Min/Max check with better functionality:

The Minimum Check must always check all Bill of Materials positions and not only the position, on which you make an issue. The parameter:

- Always checks all Bill of Materials positions.
- Supports external production processes
- Supports Serial Numbers, Batch Numbers, different Warehouse and Bin Locations
- Automatic backflush support (user can't change material)
- New BSL functions allow to insert this control in every place
- Better usability
- Better integration in WebApps



Production

Validate minimum or maximum quantity allowed for work order material issue

NEW functionality:

With the Maximum and Minimum in Percent values of the "Exceeding of planned quantity allowed" parameter you can set the permitted over- or undershoot of Work order planned quantity.

The Maximum and Minimum in Percent fields are displayed, when the "Exceeding of planned quantity allowed" parameter was not set to yes.

For more information see *Documentation > Administration > Configuration > Production > Material posting*

Provide percentage:

Setting	Meaning
Maximum in Percent	The permitted overshoot of WO planned quantity. Maximum = planned quantity + (planned quantity * %)
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 = $10 + (10/50 \cdot 100) = 15$ Pcs

Min. Material = $10 - (10/50 \cdot 100) = 5$ 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
Work order Backflushing	Yes	Yes
External: Issue Provision parts	Yes	No
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.

WebApps

NEW WebApp: "Pool Report"

In the 2022.02 version of Beas, we are launching the POOL REPORT WebApp. This app is built to provide the same functionality as the one in the Desktop Terminal.

It is available with the **Production Data Collection, Start, Interrupt, Completion, Finished Goods, Scrap license.**

You can select a resource from the Available Resources list, the app switches to the Operations tab which displays all operations of the pool report and the selected resource.

Pool Report



Pool Report

The screenshot shows the 'Resource' tab of the WebApp. At the top, there are three tabs: 'Resource' (selected), 'Operations', and 'Details'. Below the tabs is a section titled 'Available Resources Filter' with a search bar containing the text 'Available Resources Filter' and a magnifying glass icon. Below the search bar is a list of available resources:

- b-Packing Packing and labeling
- OPT OptGroup
- R-01-1T.STD.08H Standard Resource / 1 Machine / 1 Time Type / 08 Hours Capacity
- R-01-1T.STD.24H Standard Resource / 1 Machine / 1 Time Type / 24 Hours Capacity
- tfs-38689 test
- manual 0

At the bottom of the list, there are navigation controls: a left arrow, a right arrow, and a '1 / 1' indicator.

WebApps

NEW WebApp: "Pool Report"

Select an operation from the **Available Operations** list – you can search for operations by document number, order number or operation bar code.

After you select the operation, the system displays the Operation list. The operations show relevant information (WO number, position, routing position, customer ID, planned start and date times, operation description and so on)

They are also sorted according to predetermined pool priority (which works identically in the Desktop Terminal version)

Pool Report



Pool Report

Resource

Operations

Details

Available Operations Filter

Available Operations Filter

Operation List R-01-1T.STD.08H

6002518/10/30

WH001618

V70009 CTI computers

15.12.2021 12:45

Internal Operation STND001 - Standard (default Resource only)- Setup for Capacity - 1 Time

Type - No QC Inspection Plan

FP Finished Product / Normal

RM 5.00 < 10.00 /

6002519/20/30

WH001619

C40002 Bees Computers

21.12.2021 12:45

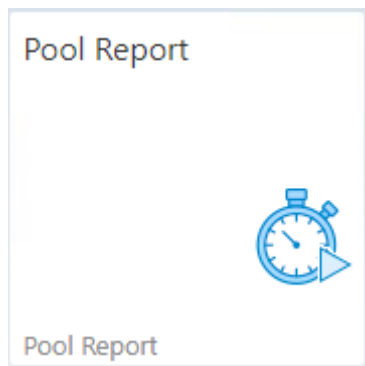
Internal Operation STND001 - Standard (default Resource only)- Setup for Capacity - 1 Time

Type - No QC Inspection Plan

FP Finished Product / Normal

WebApps

NEW WebApp: "Pool Report"



The third tab displays the **details** of the operation. Here you can Start/Stop the operation, see operation instructions, and check or add image attachments in the lower section of the screen.

In the bottom section of the screen, you can see the Bill of Materials list. For color codes and logon mask icon description and other details, please visit our documentation!

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

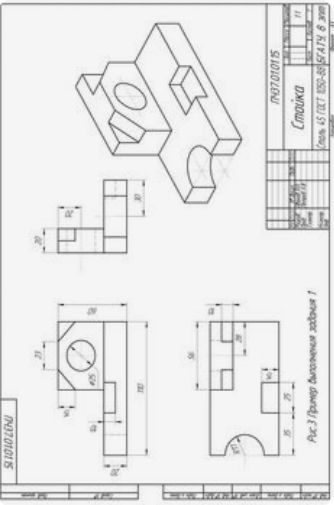

Pool Report
✓ Save

Resource
Operations
Details


6002518 / 10 / 30
WH001618

Quantity: 10,000000 Pcs
Booked: 8,000000 Pcs
Resource: R-01-1T.STD.08H
Planned: 15.12.2021 12:45 - 15.12.2021 17:00
Item: FP Finished Product / Normal
Description: Internal Operation STND001 - Standard (default Resource only)- Setup for Capacity - 1 Time Type - No QC Inspection Plan

Start



Attachments


MRP

Coverage calculation – By Date

NEW parameter in MRP Calculation:

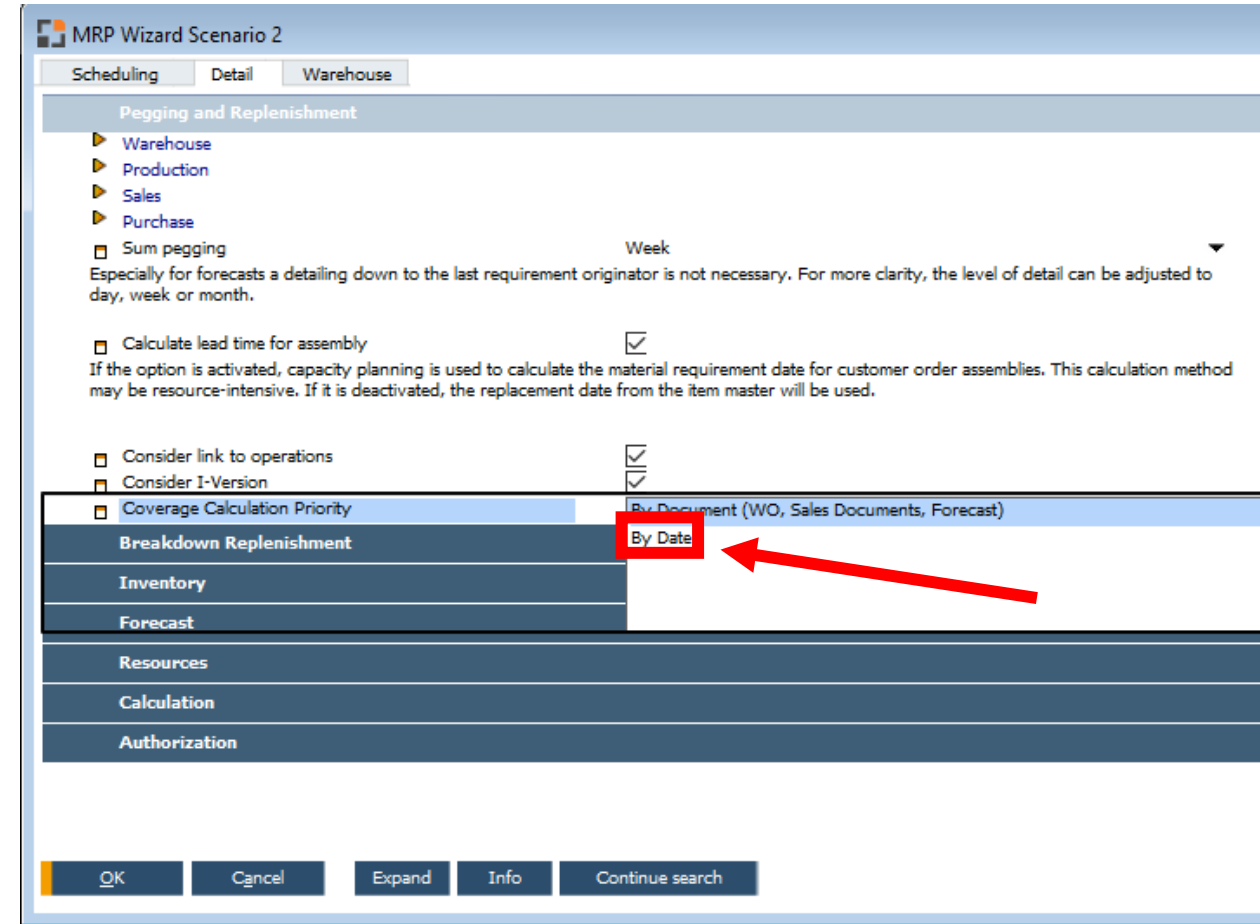
Now Beas allows to cover the demand "**By Date**" and not only "By Documents" as it was defined before.

To enable this new order in the demand covering you must select it in the MRP Configuration wizard (see image →)

Documents affected by this parameter in coverage calculation:

1. WO, 2. Sales orders and Precalculations, 3. User table.

NOTE: The "By Date" parameter does not consider Forecasts in the calculation.



Window system_option_struktur.psr

MRP

NEW functionality: Improve information in MRP coverage fields

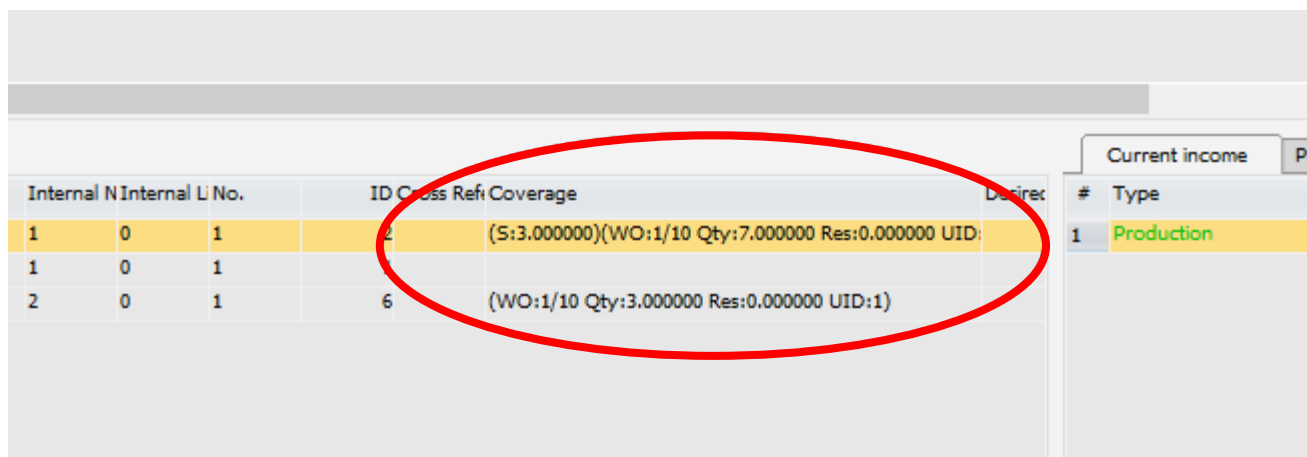
In the coverage field we save text information with the origin of the coverage we have for the selected line. We have modified the information as follows:

Multiple order: "OM: <ordrmulti.oitm> Qty:<Quantity>/<Accumulated Qty> UID: <Line Uid>

Stock: "S:#00000"

Work Order: "WO:<Belnr_id>/<Belpos_id> Qty:<Quantity> UID:<Line Uid>

Purchase Order: "PO: <Purchase Order Num>/<Purchase Order Line> Qty:<Quantity> UID:<Line Uid>



Internal N	Internal L	No.	ID	Cross Ref	Coverage	Desired	#	Type
1	0	1	2		(S:3.000000)(WO:1/10 Qty:7.000000 Res:0.000000 UID:1)		1	Production
1	0	1						
2	0	1	6		(WO:1/10 Qty:3.000000 Res:0.000000 UID:1)			

mrp_view_masterrahmen.psr

MRP

Requirements for coverage of Pre-calculations improved

In MRP the system checks the list of items defined in a precalculation.

If the same item is in the precalculation several times, in the previous version the system tried to apply the coverage calculation for every item, but the order of duplicated items was wrong. The system was covering the last entry of the list before the first one. This situation generated a wrong view in the details because you could see several lines of the precalculation for the same item, and the coverage was applied to last line.

Now, when MRP must calculate requirements coverage for a precalculation with the same item duplicated several times, the system covers this requirement in an improved way.

mrp_view_masterrahmen.psr

B1UP Integration

Beas Usability Package – adding UDFs

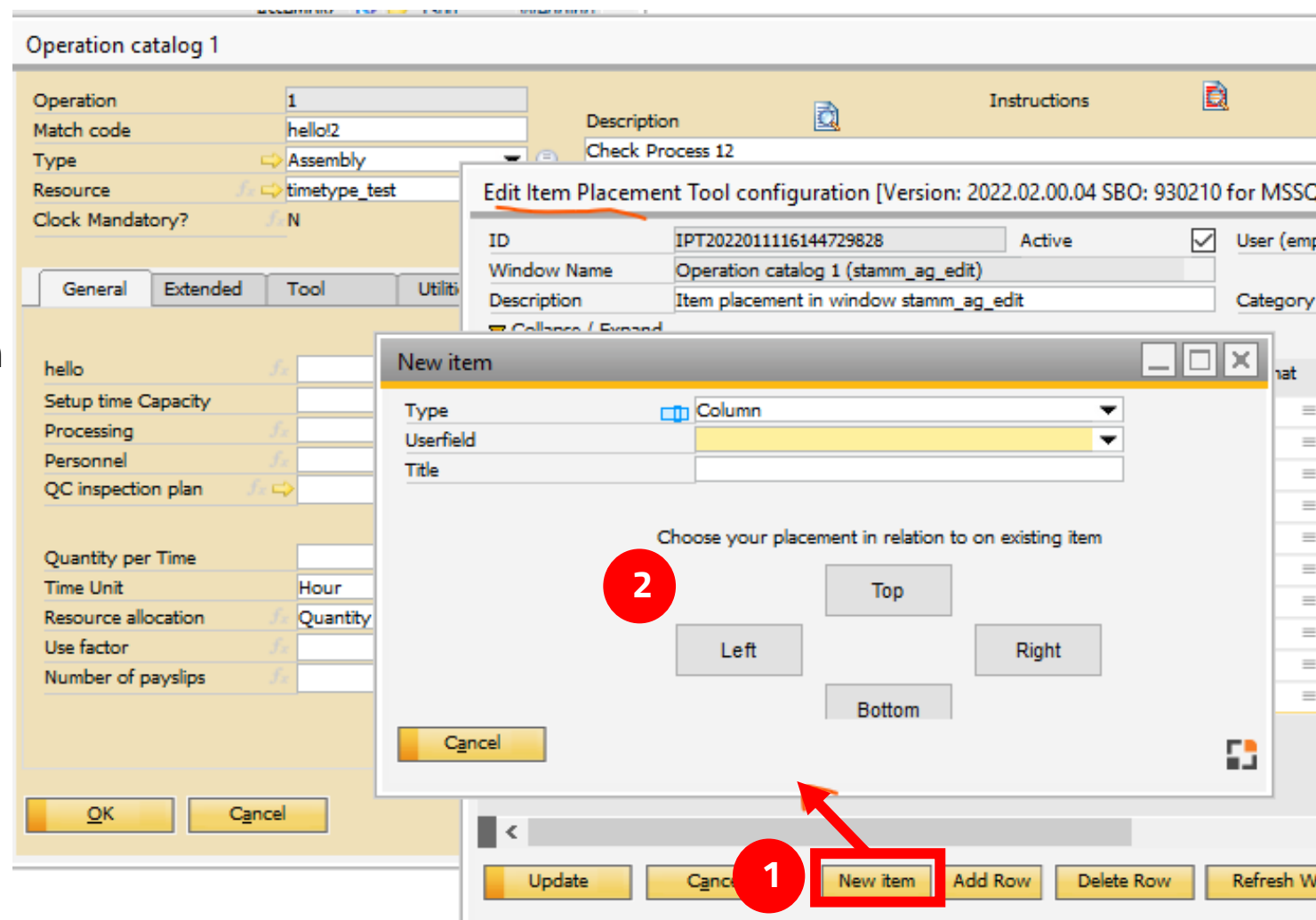
Past:

Creating a new item was not optimal. The position was always on the top left position, and it was easy to move wrong items, which, consequently, killed the correct view.

New: Now the creation of new items (1.) is simpler.

Now you can choose the type:

- Column
- Text
- Compute (=Formula field)
- Button
- Bitmap

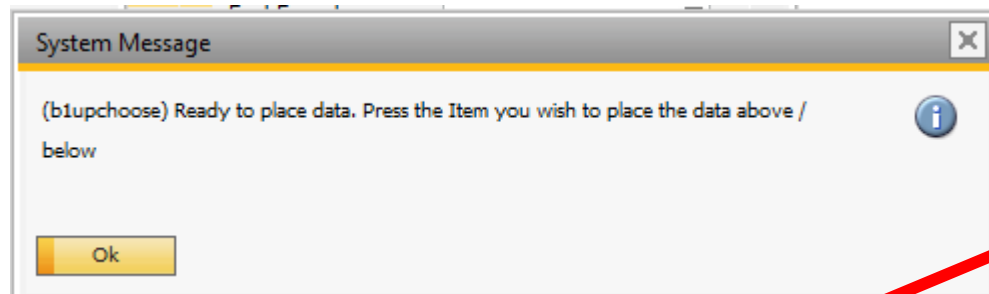


Insert all needed parameters (Userfield, Title or other related to the type) and click on one of the (2.) *Top/Right/Left/Bottom* Buttons.

B1UP Integration

Beas Usability Package – adding UDFs

Click on “Ok” on this message:



The original window changes the color and is in “Click” Mode. Click on the element, on which you want to place your new element.
Don't 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.

On display of columns and object types see our documentation.

Operation catalog 1

Operation: 1
Match code: hello!2
Type: Assembly
Resource: timetype_test
Clock Mandatory?: N

Description: Check Process 12

Instructions: [Icon]

General | Extended | Tool | Utilities | Parallel | Alternative | Attachments | Documents

	Time	Cost Element		
hello	22,000		Work Steps	1,230000
Setup time Capacity	4,000		Idle time	
Processing	22,000		Overlap limit	None
Personnel	0,000		Scrap factor	
QC inspection plan			Quality Control	0,000
Quantity per Time	1,5334			
Time Unit	Hour			
Resource allocation	Quantity	1,0		
Use factor	1,000000			
Number of payslips	6			

OK Cancel

Limitation:

This works only on simple forms. Sublists, windows with different subforms or ribbon bars are not changeable.

B1UP Integration

Beas Usability Package – adding UDFs

Move / Resize object

NEW:

Before, all changeable items were directly moveable/resizable.

New: Now 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 big border, hold Ctrl and double-click on this element.

Before:

If you moved an item inside an item from the same type (Text/Text, Column/Column and so on), the system placed this item automatically on the bottom, overlapped item.

New:

If the top left corner from the border of the moved item is 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.

New: As another improvement, you can move a field with Key Left/Top/Right/Button.

B1UP Integration

Beas Usability Package – adding UDFs

Change property in edit item placement tool window

NEW:

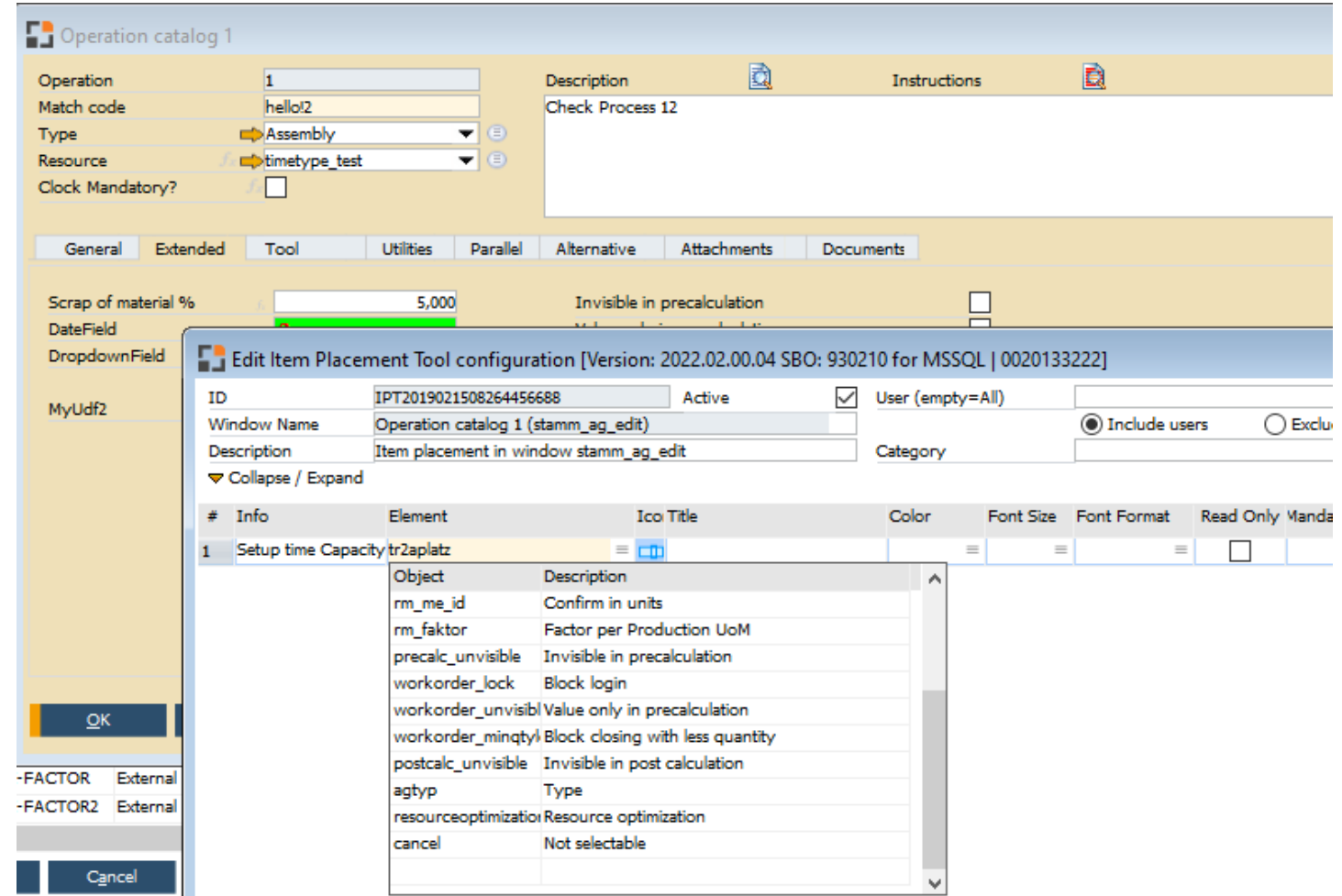
You can only select the field which is currently visible in the view.

You can choose the item in the dropdown list or via Ctrl+double-Click in the related window.

Udf's and userfields are not visible. For this, the new function "new item" is available.

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.



The screenshot shows the 'Edit Item Placement Tool configuration' window. The main window has tabs for General, Extended, Tool, Utilities, Parallel, Alternative, Attachments, and Documents. The 'General' tab is active, showing fields for Operation (1), Match code (hello2), Type (Assembly), Resource (timetype_test), and Clock Mandatory? (unchecked). The Description field contains 'Check Process 12'. Below these fields are checkboxes for 'Scrap of material %' (5,000) and 'Invisible in precalculation' (unchecked). The 'Edit Item Placement Tool configuration' dialog is open, showing fields for ID (IPT2019021508264456688), Window Name (Operation catalog 1 (stamm_ag_edit)), Description (Item placement in window stamm_ag_edit), and User (empty=All). The dialog also has a 'Collapse / Expand' button and a table of UDFs.

#	Info	Element	Ico	Title	Color	Font Size	Font Format	Read Only	Manda
1	Setup time Capacity	tr2aplatz							

The UDF list includes:

- rm_me_id: Confirm in units
- rm_faktor: Factor per Production UoM
- precalc_unvisible: Invisible in precalculation
- workorder_lock: Block login
- workorder_unvisible: Value only in precalculation
- workorder_minqty: Block closing with less quantity
- postcalc_unvisible: Invisible in post calculation
- agtyp: Type
- resourceoptimization: Resource optimization
- cancel: Not selectable

B1UP Integration

Beas Usability Package – adding UDFs

Change property in edit item placement tool window

NEW:

You can choose "dw_master" as DataWindow.
dw_master: access to all buttons and right-mouse click .

Now you can catch all Button Events.

Removed function:

It's not possible to use this function in SAP Forms (example Sales forms). For this use Boyum B1UP
It's not possible to catch userevents. For this use
Beas AddOn - Area userevents.

Validation Configuration

Name

User (empty=All)

Trigger

Window Name: Operation catalog 1 (stamm_ag_edit)

DataWindow: dw_master

Element

FormMode

Event

Modifier

Block Event

Condition

☒ No condition, just ex

☐ SQL Condition

Object	Description
ok:	&OK
close:	C&ancel
new:	Add
del:	Remove
edit:	Ed&it

Window sys_trigger_edit.psr

B1UP Integration

BeasFunction: PrintWorkOrder allows to print all positions

Function/Area:

B1UP BeasFunction (PrintWorkorder)

BeasScript BeasFunction=PrintWorkorder)

In the past the Work order Document Number and Position were mandatory.

NEW functionality:

Now only the work order Document Number is mandatory.

If Work order Position is defined with 0 or it is empty, the system prints all work order positions.

Example:

BeasFunction(PrintWorkorder|6002);

This creates a view for all work order positions from work order 6002.

Note: For every position the system opens a new window.

For print: Every work order position is a separate print document.

WMS integration

In **WMS > Item Master Data > Produmex > Attributes** you can define the Batch Attributes code:

#	Packaging Type Code	Number of UoM1	Has Variable Quantity (Goo...
	▼	0.00	▼
	▼	0.00	▼

#	Batch Attribute Code	Value Entry Option at ...	Is Linked to Batch?
1	Country of origin	Optional	☒
2	Double-Field	Optional	☒
3	Expire-Date	Optional	☒
4	Manufacturing date	Required	☒
5	String-Field	Optional	☐

With the new AddOn, Beas supports this in the following manual receipt processes:

- Collective receipt
- Work order Backflushing
- Production Time receipt

Limitation: only desktop version. Not supported by WebApps.

The system saves all attributes correctly behind the WMS Batch attributes:

Results	Item Code	Barcode	Description	Batch Number	Batch Number 2	Best Before Date	Batc...	LUID	SSCC	Wareho
⇒	BV_002		Milk Carton	001		05/22/20	10			⇒ 01
⇒	BV_002		Milk Carton	002		05/24/20	17			⇒ 01
⇒	BV_002		Milk Carton	001		05/22/20	10	12	000000	⇒ 01
⇒	BV_002		Milk Carton	0000		05/22/20	20	12	000000	⇒ 01
⇒	FM_001		Bulk Milk (L 351210002			12/17/21	21			⇒ 01
⇒	FM_001		Bulk Milk (L 351210003			12/17/21	22			⇒ 01
⇒	FM_001		Bulk Milk (L 351210004			12/18/21	23			⇒ 01
⇒	FM_001		Bulk Milk (L 351210005			12/17/21	24			⇒ 01
⇒	FM_001		Bulk Milk (L 0007			12/21/21	37	16	000000	⇒ 01
⇒	RM_B		Ravr Materia 423413224				27	13	000000	⇒ 01
⇒	RM_B		Ravr Materia 432342342				28			⇒ 01
⇒	RM_B		Ravr Materia 0001				29	14	000000	⇒ 01

Batch attributes	
Batch attribute	Value
Expire-Date	2021-12-30
Double-Field	3,4
String-Field	test
Country of origin	V-EN

System

Support to Crystal report changes for SAP FP2111

The newly released SAP Business One 10 FP2111 brought with it an unannounced breaking change in the related Crystal Report Runtime version (13.0.31.4010), as the backend files had been moved to another location in the file structure and the raw files had been changed.

Now we have a solution also implemented in the Beas core and new libraries are installed automatically with the current version.

See article:

<https://support.boyum-it.com/hc/en-us/articles/4415444499345-B1UP-Breaking-Change-in-Crystal-Reports-in-SAP-Business-One-10-FP2111->

B1UP: Breaking Change in Crystal Reports in SAP Business One 10 FP2111



Rasmus Jensen

18 days ago · Updated

Follow

Warning: This investigation is in progress. More info will be added as we learn more...

With SAP's newly released SAP Business One 10 FP2111, there seems to be an unannounced breaking change in the related Crystal Report Runtime version (13.0.31.4010) in that the backend files have been moved to another location in the file structure + the raw files have been changed.

This issue results in that if you upgrade to FP2111 and try to run a Crystal report using B1UP you are either told that Crystal Reports are not installed or it is missing the files (Error: "Could not load file or assembly 'CrystalDecisions.CrystalReports.Engine, Version=13.0.3500.0, Culture=neutral, PublicKeyToken=692fba5521e1304' or one of its dependencies")

While we do not have a permanent fix ready, we have the following workaround:

IMPORTANT: You need to be running B1UP 2021.12 before you can apply (the fix is NOT guaranteed to work with older versions)

- Stop SAP Business One
- Go to folder "C:\Program Files\sap\SAP Business One\AddOns\BOY\B1 Usability Package"
- Locate file "SBO_Functions.dll" and rename it to "SBO_Functions_old.dll"
- Unzip the attached new version of the file in this article to the folder above
- Start SAP + B1UP and test if that resolves the issue

 [SBO_Functions \(B1UP 2021.12.0.1 FP2111 Crystal Report Hotfix\).zip](#)

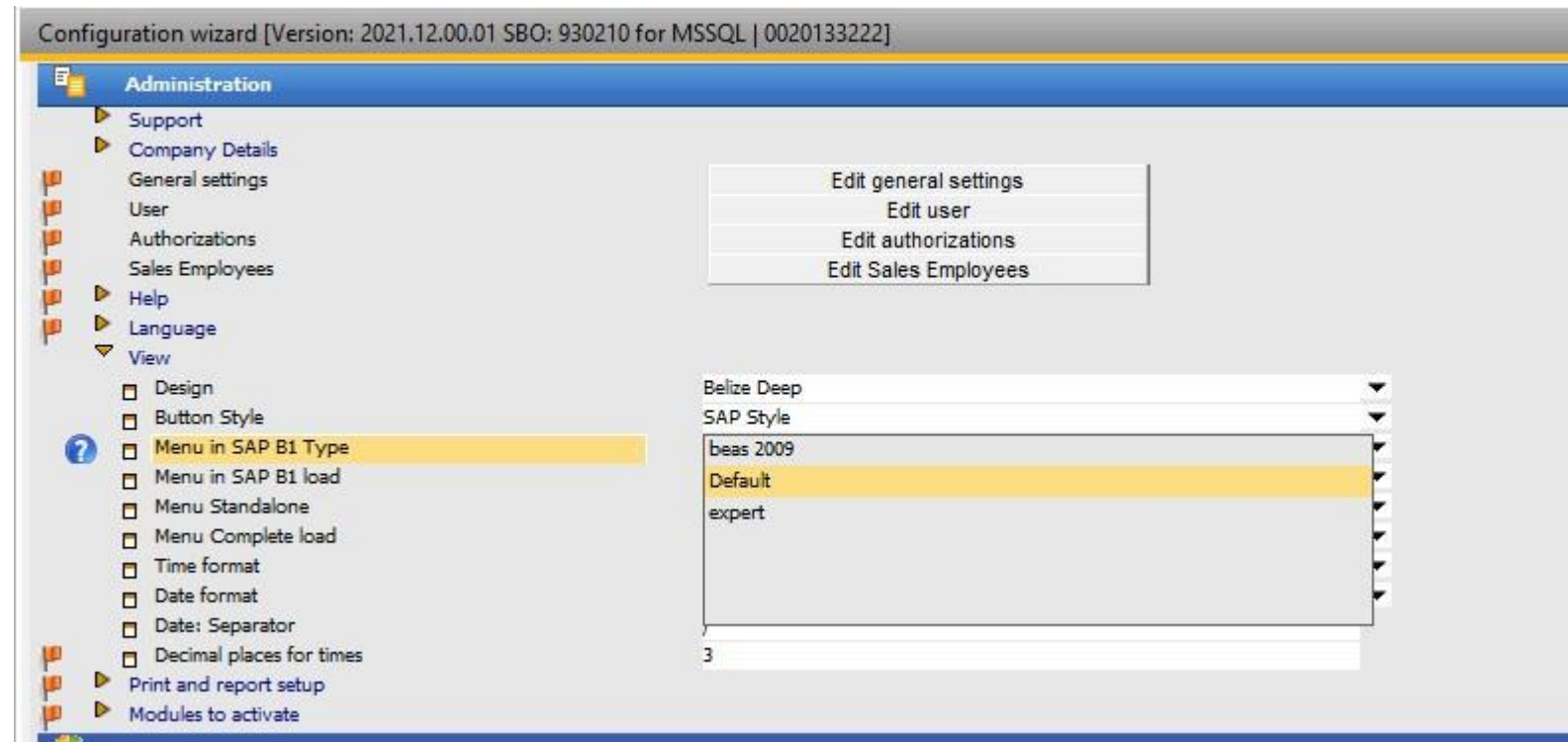
800 KB · Download

System

Remove menu entries by XML

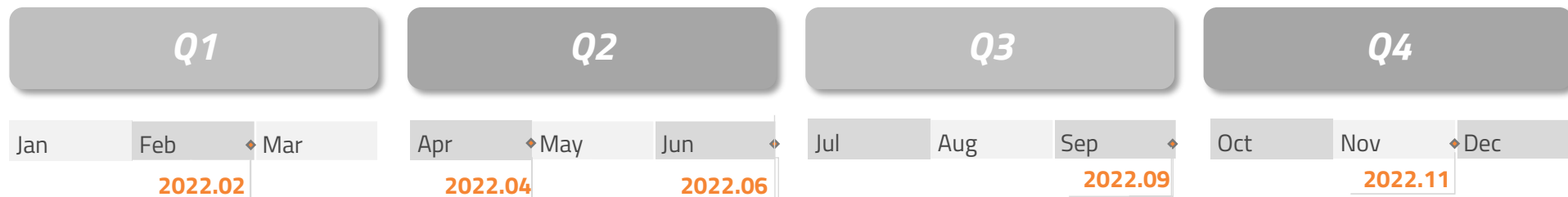
PAST: Since 2021.11 with XML Support you had to restart SAP B1 if you changed the menu type or reloaded the Beas addon.

NEW functionality: You don't need to restart Beas or SAP after changing the menu type.



Window system_option_struktur.psr

2022 **Planned** releases



This is the current state of planning and may be changed by Boyum IT Solutions at any time.

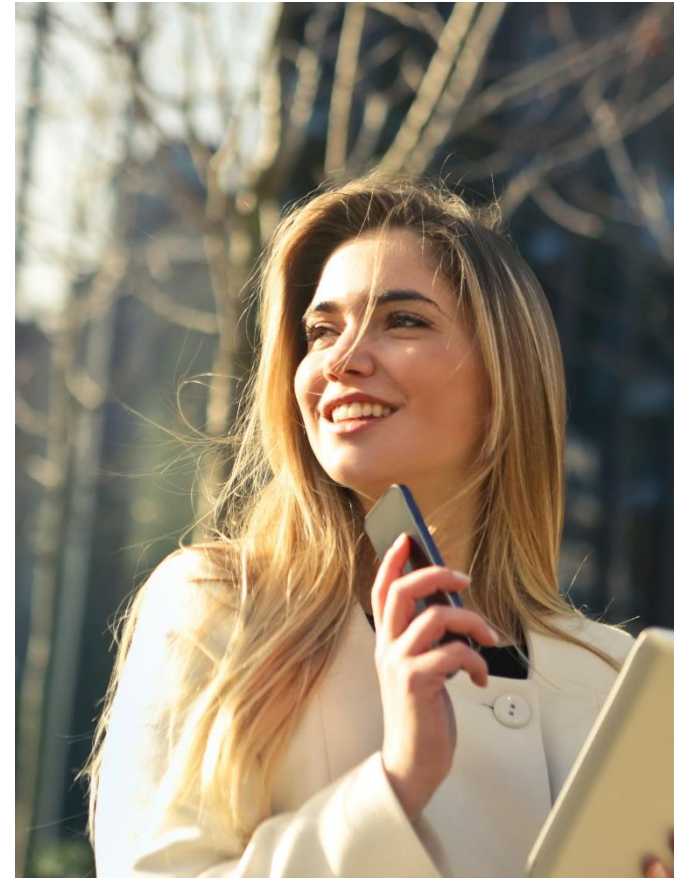
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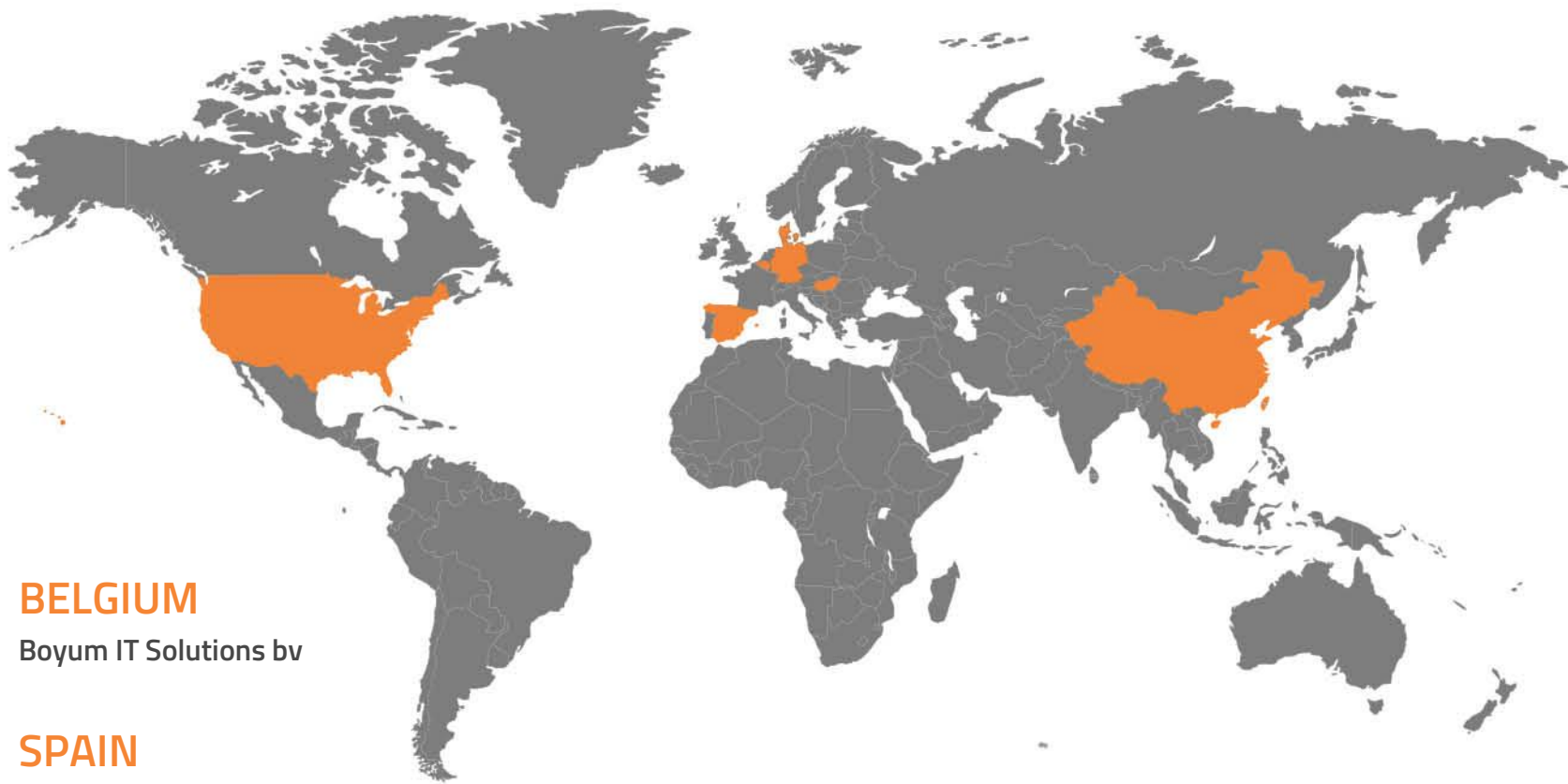
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