

BEAS MANUFACTURING

2021.08

RELEASE NOTES

AUG 2021

2021.08 Release Notes



BEAS

MANUFACTURING

2021.08 Highlights

Production

- Beas now supports 12 decimal places for the Conversion factor in Bill Of Materials, resulting in more accurate calculations.
- New field "Bin Location" at the BoM structure to set a default bin location for material consumption or reservation facilitating the process of material consumption by taking the defined default value.

Usability and translations

- "Summarized purchase order" window name changed to "Collective purchase order".
- New icons in the field Formula (Formulas, tables) in the BoM or Routing screen, replacing the yellow color that for some users was not clear or visible at all.

Documentation

- Beas Dashboard documentation has been updated with the 2021.08 Beas documentation version to access a comprehensive description of the latest Beas dashboards.

Production

Beas now supports 12 decimal places for the Conversion factor

Beas supports different units:

- Input unit (Bill of materials)
- Production unit
- Stock unit

Beas must always convert the quantity from one to another unit.

Example:

if you change the quantity in Input Unit, the system must calculate the production unit and stock unit.

In Bill of Materials, you have the possibility to change the factor manually.

BEFORE: Beas supported only 6 decimal places

NEW: Beas supports 12 decimal places for the factor

In this way, issues with conversion between UoMs that required many decimal places and resulted in inaccurate calculations have been solved.

The screenshot shows the 'Material' window with the following data:

Quantity	Factor	Per
1,000	2,124443	1,0000

Other fields in the 'General' tab include: Position: 10, Item: unit_material, I-Version: Revision 2, Description: unit test for assembly, Drawing number: (empty).

The 'Price' tab shows: Bill of Materials, Routing, Rounding dec., Warehouse: 01, my udf1, my udf2.

Production

New "Bin Location" field

With this new field you can preassign the exact Bin location to instruct the system where to consume the material.

Also, in case the assigned bin quantity is insufficient, the system takes the next bin location to fill the requirements.

Rules:

After changing the Warehouse, the bin location field is set to empty.

Only valid Bin locations for the selected Warehouse are allowed.

"Bin Location" definition has been added to the following windows:

- Item Master Data (List)
- Item Master Data BoM Edit
- WO position BoM (List)
- WO position BoM Edit
- Precalculation BoM Edit

#	Position	Item	I-Version	Description	Quantity UoM	Manually	Warehouse	Bin Location
1	10	rm01		Raw Material	4,000000 Pcs	<input type="checkbox"/>	11	01
2	10	rm01		Raw Material	3,000000 Pcs	<input type="checkbox"/>	01	
3	10	rm01		Raw Material	5,000000 Pcs	<input type="checkbox"/>	01	
4	10	i9240		default	1,000000 Pcs	<input type="checkbox"/>	01	

Position: 10 I-Version: Active

Item: rm01 Description: Raw Material

Quantity: 4,000000 Pcs Factor: 1,00000000000000000000

Rounding type: No rounding Warehouse: 11

Rounding dec.: 0 Bin Location: 01

Routing-position: 10

#	Pos	Item	Description	Quantity UoM	Warehouse	Bin Locat	Total Quantity	Booked	Closed
1	10	RM	Raw Material / Norm:	1,000000 Pcs	BW	001004	2,000000	0,000000	<input type="checkbox"/>
2	15	111111111111111111111112:default		1,000	01		2,000000	0,000000	<input type="checkbox"/>
3	20	RM_B	Raw Material / Batch	1,000000 Pcs	01		2,000000	0,000000	<input type="checkbox"/>
4	30	RM_S	Raw Material / Serial	1,000000 Pcs	01		2,000000	0,000000	<input type="checkbox"/>

Column Description	Column Name	Primary	Type	Column Name	Origin
Warehouse Id	WhsCode	<input type="checkbox"/>	No		
Bin Location	BINCODE	<input type="checkbox"/>	No		

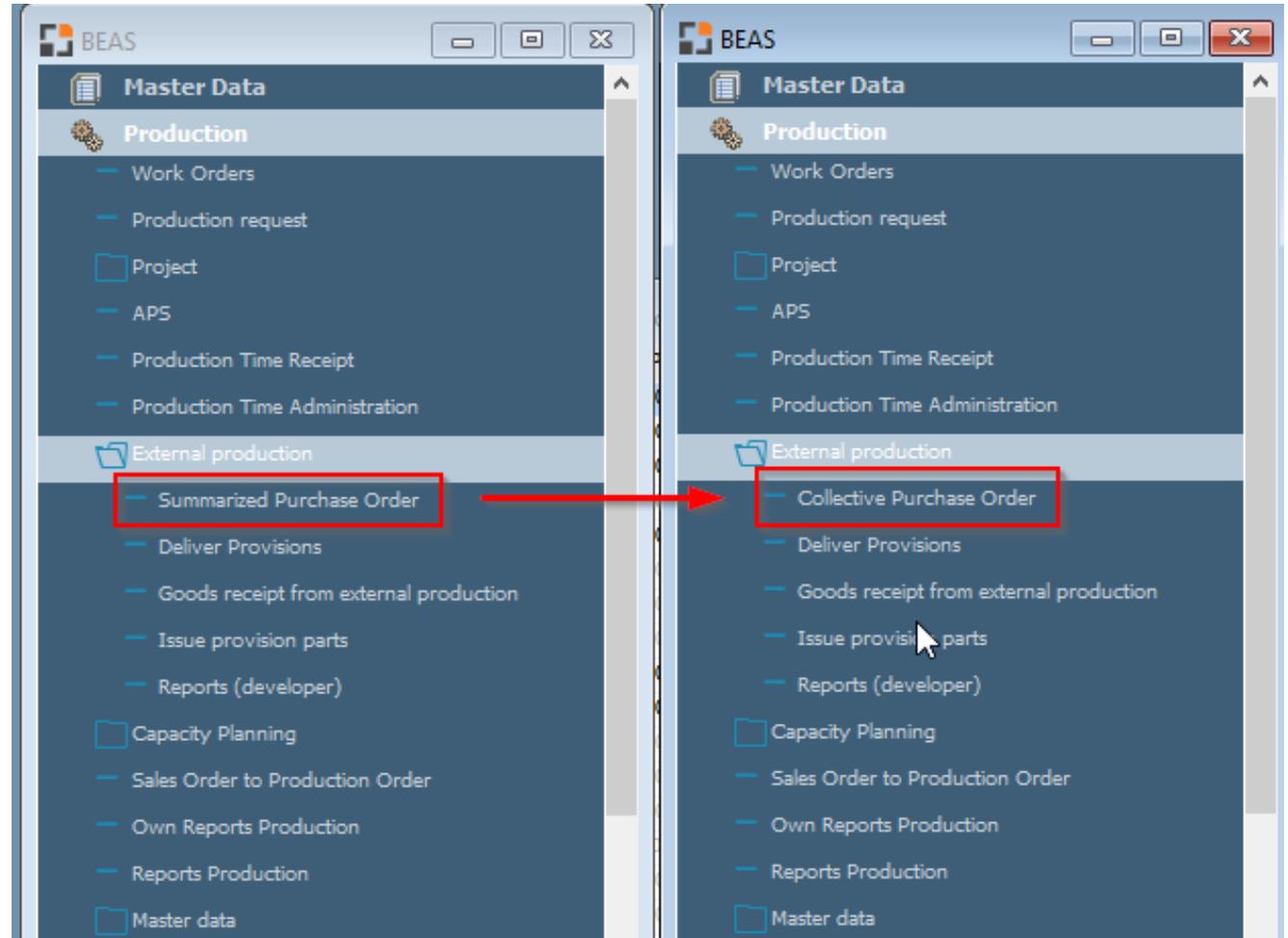
New import definition

Usability and translations

External Production - "Summarized purchase order" window name changed to "Collective purchase order"

In some places, we had a wrong translation in the title or text for the "Collective Purchase Order".

NEW: We changed the naming from "Summarized purchase order" to "Collective Purchase Order" in the window name and the SAP menu entry.



Usability and translations

Work order- "Summarized orders" button name changed to "Collective order"

"Summarized order" button has been renamed to "Collective order" in MRP Production Request.

"WO Summary button" renamed to "Collective order" in the Sales order to Work order window.

Production Request

#	Item	Description	I-Version	Drawing number
1	FP_B_S_V	Finished Product / Batch / Make To		
2	FP_B_S_V	Finished Product / Batch / Make To		

Sales Order to Production Order

Order related		Storage related												
#	...	Planned Qty	UoM	Plan	Missing ...	Warehouse	Warehouse Nam ...	Branch	Production Type	Sales Order	Line	Project	Date	Name
1		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	121	1		10/20/20	Customer 001
2		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	122	1		10/20/20	Customer 001
3		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	123	1		10/20/20	Customer 001
4		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	124	1		10/20/20	Customer 001
5		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	125	1		10/20/20	Customer 001
6		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	126	1		10/20/20	Customer 001
7		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	127	1		10/21/20	Customer 001
8		0.000000	Pcs	10.000000	10.000000	01	General Warehous		Sales Order	129	1		10/21/20	Customer 001
9		0.000000	Pcs	1.000000	1.000000	01	General Warehous		Sales Order	130	2		10/21/20	Customer 001

...	Document	Order	Customer	Name	Item	Reserved	Res. Total	WO. Total	UoM	Delivery Date	Closed	
	20200727	121-1	C001	Customer 001	FP	10.000000	10.000000	10.000000	Pcs	12/17/20	<input type="checkbox"/>	03/03
	20200775	121-1	C001	Customer 001	FP	10.000000	10.000000	10.000000	Pcs	02/12/21	<input type="checkbox"/>	03/22
	20200857	121-1	C001	Customer 001	FP	1.000000	1.000000	1.000000	Pcs	03/26/21	<input type="checkbox"/>	03/26

Usability

New icons for variant (Formulas, tables)

Icons for formulas are changed:

- better size, better to use
- better to see
- new style: f_x (Function), f_t (Table) f_s (Script and other Variants)
- if the field has an arrow, the formula icon is left of the arrow
- (in item master data, Bill of Materials and Routing position)

You can insert scripts left of the Position, or, in item master data left of item number.

Instead of the old "C" – Icon we have the text edit icon f_x

If script is inside, the icon is red.

The screenshots illustrate the following changes:

- Item master data for FP:** The 'Item number' field (10) now has a red f_x icon to its left. The 'UoM Group' field (Manual) has a red f_x icon to its left.
- Bill of Materials Item for FP:** The 'Position' field (10) has a red f_x icon to its left. The 'Item' field (RM) has a red f_x icon to its left. The 'Description' field (Raw) has a red f_x icon to its left.
- Routing position for FP:** The 'Operation sequence' field (10) has a red f_x icon to its left. The 'Description' field (Internal Operation With QC - Standard (default Resource only) - Setup for) has a red f_x icon to its left. The 'Setup time' field (0.000) has a red f_s icon to its left. The 'Setup time Capacity' field (5.000) has a red f_s icon to its left. The 'Mach+Labor Time/unit' field (25.000) has a red f_s icon to its left. The 'Quantity per Time' field (100.0000) has a red f_t icon to its left. The 'Time Unit' field (minute) has a red f_t icon to its left. The 'Res' field has a red f_s icon to its left. The 'Operation active' field (yes) has a red f_s icon to its left.

The 'Item structure' window shows a list of items with their respective icons and descriptions:

Item no.	Resource	op. sequ.	Brief Description, Activity
FP			Finished Product / Normal
A 10	RM	f_x	Raw Material / Normal
20	RM_B		Raw Material / Batch
30	RM_S		Raw Material / Serial
10	R-01-1T:		Internal Operation With QC - Standard (default)
20	R-EX		External Operation
30	R-01-1T:		Internal Operation STND001 - Standard (default)

Documentation

Beas Dashboards documentation

With the 2021.08 Beas documentation version, you can access a comprehensive description of the Beas dashboards.

Check the description of the different modules, tabs and all the grids showing production time information, capacity utilization, production planning and analysis, quality control, maintenance and many more.



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Production Profitability (Estimation)

Beas dashboards > Using the dashboards > Production Analysis > General tab > Production Profitability (Estimation)

Production Profitability (Estimation)

Item Code	Item Name	Produced Quantity	Production Costs	Avg. Unit Cost	Avg. Sales Price	Projected Sales Amount	Projected Profit Margin	Icons
SA125	Dried Trimmed Flower_Flores Cortadas Secas	430,00	2.386,50	5,55	170,00	73.100,00	70.713,50	▲
PA115	Leg Ham_Jamón de Perna_Presunto de Perna	5.000,00	14.027,50	2,81	21,29	106.451,61	92.424,11	▲
PA176	Plastic Bottle 300ml_Botella Plástica 300ml_Garrafa Plástica 300ml	1.300,00	352,97	0,27	1,81	2.347,68	1.994,72	▲
PA258	Puff Pastry Roll 10b	200,00	71,40	0,38	1,45	290,00	214,60	▲
PA245	Rolls Geotextil - 100 gr/m² - 2m x 100m	300,00	23.352,00	77,84	230,00	69.000,00	45.648,00	▲
L30-3061	FLOAT SWITCH ASSEMBLY	10,00	1.170,50	117,05	300,00	3.000,00	1.829,50	▲
PA266	Color Masterbatch	8.000,00	74.103,07	9,26	12,97	103.768,89	29.665,82	▲
PA261	Chlorine Cylinder	400,00	14.506,88	36,27	42,00	16.800,00	2.293,12	▲

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 and 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.

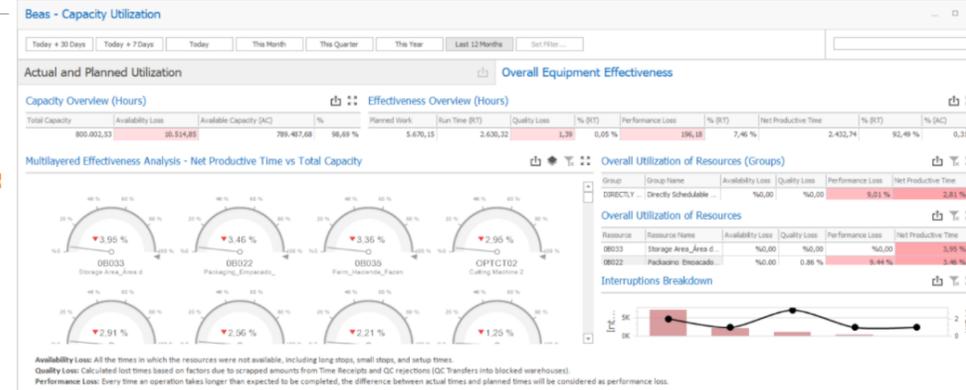


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Overall Equipment Effectiveness (OEE) Tab

Using the dashboards > Capacity Utilization > 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.

Read **before install**

Beas is increasing the control at **the terminal license** to align with the correct terminal license definition. In the previous releases, the licensing check system did not verify correctly the running terminals against the licenses sales model in place for Beas for more than 10 years. **See** our documentation: http://www.beascloud.net/docs/help/online_eng/index.html?terminallicense.htm



Terminal licenses are managed by concurrence of users: it is recommended that webapps users logout, since it frees the license for another user to use it, instead of just closing the browser, in which case the license remains in use for a few more minutes.

It is recommended that shopfloor terminals have terminal licenses assigned by workstation, thus ensuring the availability of licenses in these terminals. For question and answer about terminal license, please see : <https://support.boyum-it.com/hc/en-us/articles/360018756418>

Make sure to assign only the apps that the user really uses for each personnel in the authorization group, because for every login all terminal licenses related to the user's authorization will remain in use during his session.

Please consider when a concurrent license is not available, it will be displayed as gray when the user logs in. Before this was not visible.

The Work order refresh button was disabled by default since version 2021.03 If the customer uses this functionality, it can be activated in the Configuration wizard.

Your **voice** matters

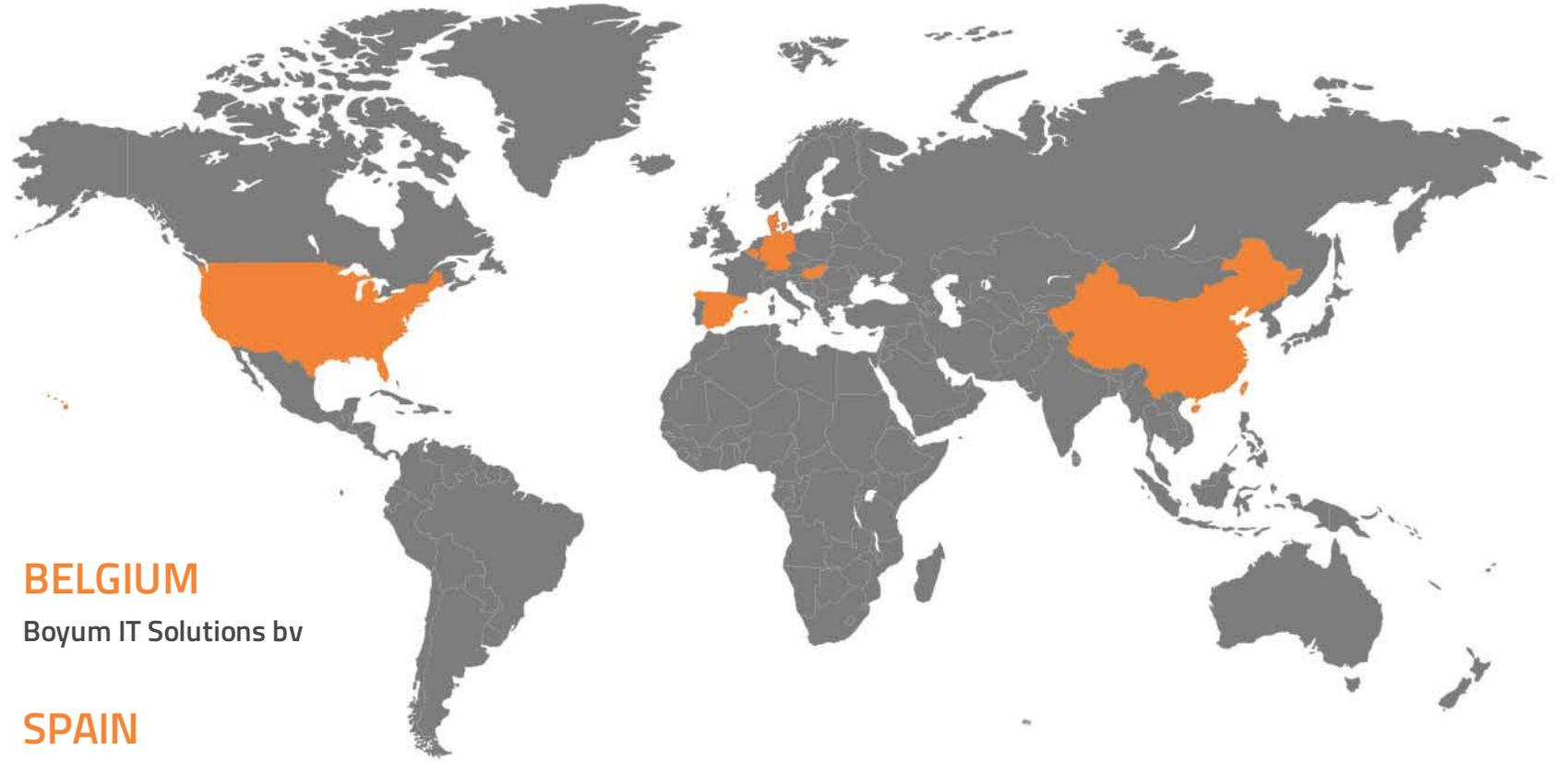
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