



WHITE PAPER

TRIMIT Material Requirement Planning 24.1

This document contains information regarding the Material Requirement Planning functionality in TRIMIT 24.1 for Microsoft Dynamics 365 Business Central 2024, Wave 1 (W1).

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INTRODUCTION

TRIMIT Material Requirement Planning (MRP) is a tool to calculate the demand of your Items and to determine which Quantities on which Date should be bought, produced, or transferred to fulfill this demand.

- It is the combination of a Master Production Schedule (MPS) and a Material Requirement Plan (MRP)
- It can create Purchase Requisitions (Purchase Quotes), or Purchase Orders based on the fields in the Stockkeeping Unit (SKU) or Item and the fields of the MRP Setup.
- It can create TRIMIT Production Orders of **Type Suggestion** or TRIMIT Production Orders of **Type Order** based on the fields in the Stockkeeping Unit (SKU) or Item and the fields of the MRP Setup.
- It can create TRIMIT Production Collecting Orders based on the fields in the Stockkeeping Unit (SKU) or Item and the fields of the MRP Setup.
- It can create Transfer Orders based on the fields in the SKUs and the fields of the MRP Setup.
- It can create a Worksheet with all suggestions, which enables the user to determine which Orders should be created.
- It can determine how Items can be combined on Purchase Orders or Production Collecting Orders by using the MRP Limitations.
- It can be executed by using a Job Queue
- It will do **nothing** with standard Business Central BOM or Routing
- It will do **nothing** with standard Business Central Requisition Worksheet
- It will do **nothing** with standard Business Central Production Planning
- It will do **nothing** with standard Business Central Production Orders

Basics for these calculations are the fields on the SKUs (if they exist per *Item + Location!*) or Items, the MRP Setups and the MRP Limitations.

Part of these fields are standard Business Central fields, part are specific TRIMIT fields.

For several pictures in this White Paper, some data has been added to the demo company. See these additions in [Extra Data](#).

The audience for this document is the Consultant or very skilled User.

It will only describe the TRIMIT fields/functionality and not the standard Business Central fields/functionality.

Be aware of not changing settings and parameters in a live database without consulting the implementing partner.

The functionality described is the functionality as of **TRIMIT 24.1 for Business Central W1 BC24.X**.

The pictures in this White Paper are based on the demo database for **TRIMIT 24.1**, which is based on Microsoft Dynamics 365 Business Central 2024 Release Wave 1, in the demo company **CRONUS TRIMIT W1 Ltd.** (based on CRONUS International Ltd. of Microsoft Dynamics 365 Business Central).

COMPONENTS

TRIMIT MRP contains the following objects:

The tables	6036355 trm Call MRP
	6037016 trm Prod. Line Buffer
	6037305 trm MRP Action
	6037306 trm MRP Action Filter
	6037307 trm MRP Setup
	6037314 trm MRP Limitation
	6037319 trm MRP Action Journal Batch
	6036524 trm Batch Log
The pages	6037308 trm MRP Actions
	6037309 trm MRP Setup List
	6037310 trm MRP Setup
	6037318 trm MRP Action Journal Batch
	6037320 trm MRP Action Filter
	6037321 trm MRP Limitations
	6037322 trm MRP Job Queue
	6036524 trm Batch Log
The reports	6037317 trm MRP Action filter create
	6037318 trm Assign Low-Level Codes
	6037319 trm MRP by Prod. Order
	6037320 trm MRP by Sales Line
	6037321 trm MRP by Item
	6037322 trm MRP by Prod. Coll. Order
The codeunit	6037326 trm MRP Job Queue
	6037327 trm Initiate MRP
	6037328 trm Create Prod. Header
	6037329 trm Create Purchase Order
	6037330 trm MRP
	6037331 trm Create Transfer Order
	6037332 trm MRP Report Handling

Besides these special objects, also in existing Tables/Pages new fields have been added.

Two Principles

Basically, there are two different principles for the Material Requirement Planning on Items in TRIMIT:

- Order Initiation
- Inventory Initiation
 - Gross Calculation
 - Net Calculation

The choice of principle is set up on the individual SKU/Item/Master and can be overruled by the set up on the MRP Setup Card.

A Sales Order, Production Order or Transfer Order can consist of independent Items with different initiations or Replenishment Policy (some can be Order Initiated, and some can be Inventory Initiated).

The TRIMIT MRP Calculation will automatically create the Bill of Materials (BOM) structure for the Item, which secures that all levels in the underlying structure are calculated as well in one MRP Calculation. If not all the individual Items of a Master are created, this will be done as well if they are necessary for the creation of the total BOM Structure of an Item.

ORDER INITIATED ITEMS

Order Initiated Items are per definition never on stock.

In case of Sales Lines or Consumption of the Item as a Component on a Production Order, an expected increase of Inventory is connected to either a Purchase-, Production- or Transfer Order, depending on the individual set up of the Item.

All changes in Quantity of the demand (Quantity in a Sales Line or Quantity per in a Production Order Line) will automatically initiate a change of the Quantity on the related Purchase-, Production- or Transfer Order, and a deletion of the initiating Sales- or Production Order will cause a deletion of the Related Order.

Items with Order Initiation are typically used in companies, where the finished products are packed per Sales Order, consisting of different Items, or in companies that produces finished Items to the customers individual demands (Private Label).

INVENTORY INITIATED ITEMS

Inventory Initiated Items are per definition on stock, and all transactions in connection with the Items, are registered on the stock.

There is no direct connection with positive and negative transactions, and an increased demand will not automatically create/change existing Purchase-, Production- or Transfer Orders.

The Orders for Purchase, Production or Transfer are created via the MRP Calculation. The rules for stock management (**Reorder Point**, **Maximum Inventory**, **Reorder Quantity**, etc.) are setup via the fields on the Master Card and can be specified on the Item Card or even on the Stockkeeping Unit Card (will be described below) and the fields of the MRP Setup.

- **Gross Calculation**

By using Inventory Initiated Items with a **Gross Calculation**, the Quantities on Purchase-, Production- and Transfer Orders created by the MRP equals the Quantities on the Sales Orders and Production Orders (Multiple Levels). Depending on the setup of the Item, the actual stock can be deducted.

- **Net Calculation**

By using Inventory Initiated Items with a **Net Calculation**, the Quantities on Purchase-, Production- and Transfer Orders created by the MRP equals the Quantities on the Sales Orders and Production Orders (Multiple Levels), in addition with the content of the fields for **Maximum Inventory**, **Reorder Quantity**, etc.

It is possible to determine the number of suggestions by setting up rules and filters on the MRP, for instance **Horizon MRP** and **MRP Period**:

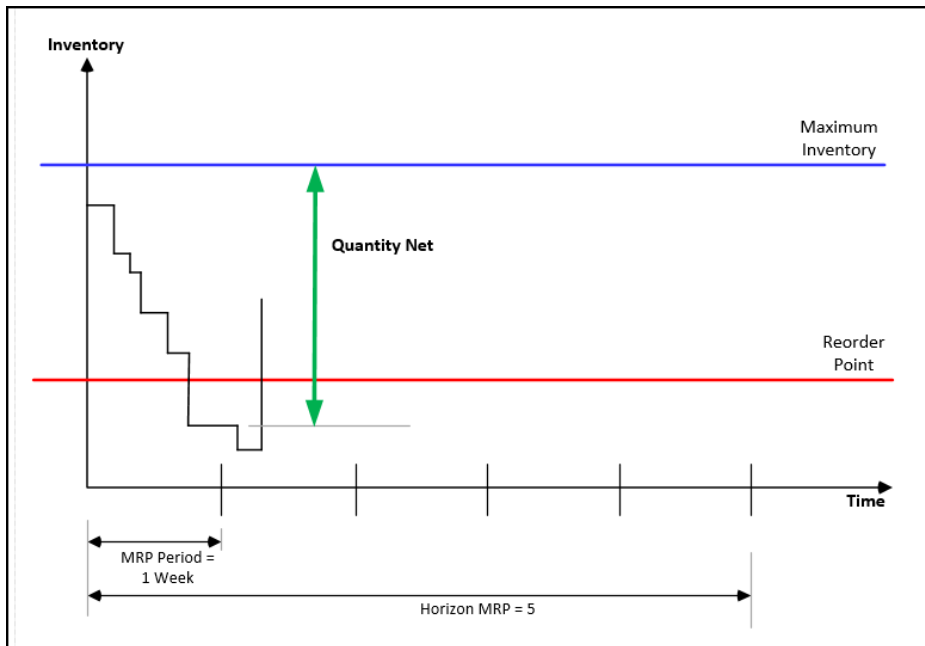
Example:

MRP Period: 1W

Horizon MRP: 5

Look $1W \times 5 = 5$ Weeks in advance from Starting Date and can create 5 Suggestions: one for each Week.

The illustration below shows the basic principles for the MRP. The system calculates if the Expected Quantity on stock is below the **Reorder Point** per MRP Period. The **Quantity Net** is the quantity that must be produced, purchased, or transferred.



NOTE

When we talk about a Purchase Order that will be created, we actually mean a Purchase Line – for which a new Purchase Order might be created as well.

When we talk about a Purchase Requisition that will be created, we actually mean a Purchase Quote Line – for which a new Purchase Quote might be created as well.

When we talk about a Production Collection Order that will be created, we actually mean a Production Collection Order Line, for which a new Production Collection Order might be created as well.

When we talk about a Transfer Order that will be created, we actually mean a Transfer Order Line – for which a new Transfer Order might be created as well.

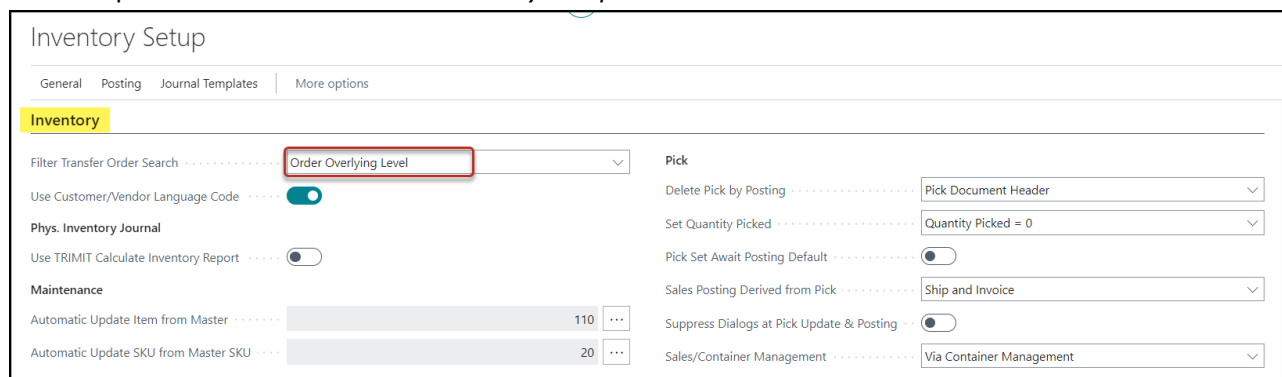
SETUPS

Many fields and parameters influence the TRIMIT MRP from:

- Inventory Setup
- Production Setup
- Purchase & Payables Setup
- Fields on the Master/Item
- MRP Setups
- MRP Limitations

INVENTORY SETUP

This setup can be found via **Search Inventory Setup**

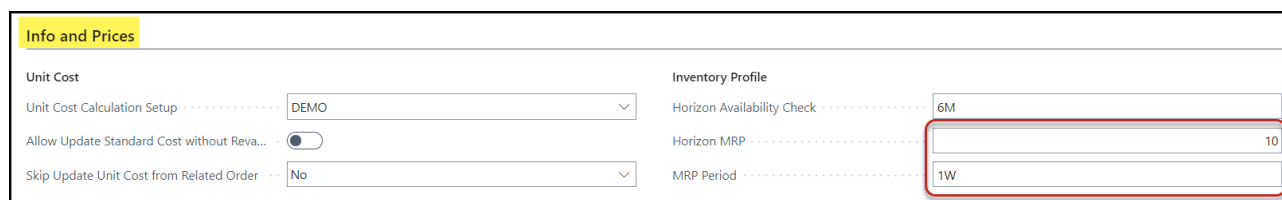


FILTER TRANSFER ORDER SEARCH

When a Transfer Order is about to be created due to an MRP Calculation, the system will search for an existing Transfer Order. In this situation, a filter is set either at the initiating fields at the Start Level or the initiating fields at the Overlying Level. With this Parameter, you can determine which fields to be used.

You can choose between the following two options:

Order Overlying Level	The filter will be set at Initiating Type of Order Overlying Level, Initiating Document Type Overlying Level, and Initiating Order No. Overlying level.
Order Start Level	The filter will be set at Initiating Type of Order Start level, Initiating Document Type Start Level, and Initiating Order No. Start Level.



HORIZON MRP

In connection with an MRP Calculation you must specify the Horizon that determines the number (an Integer) of separate Periods (see next Parameter for **MRP Period**) to be included in the MRP Calculation. The use of this Parameter is optional. Alternatively, you can set the **Horizon MRP** by each MRP Calculation or set **Horizon MRP** at each Master/Item.

MRP PERIOD

In connection with an MRP Calculation, you can specify **Horizon MRP** and **MRP Period**. The **MRP Period** can be entered into this Parameter and describes by a Date Formula the length of each of the Periods included in the MRP Calculation.

The use of this Parameter is optional. Alternatively, you can set the **MRP Period** by each MRP Calculation or set **MRP Period** at each Master/Item.

NOTE

Some Examples:

If you can order your Items every month at your Vendor, you might consider an **MRP Period** of **1M**. For every 'month demand', a new Purchase Line (Order), Production Order or Transfer Line (Order) will be created. If you have a delivery period of 2 Months for your Purchase or Production, you need to set the **Horizon MRP** at least to 3 and the **Availability Check** to **3M**.

If you can order your Items only once every Season, you might consider an **MRP Period** of **6M**. For every half year, a new Purchase Line (Order), Production Order or Transfer Line (Order) will be created. In this case, you can set the **Horizon MRP** to 1 and the **Availability Check** to **6M** or leave it even blank.

PRODUCTION SETUP

This setup can be found via **Search Production Setup**.

General	
Global Dimensions	
Brand Code	Inheritance
Season Code	Inheritance
Job No.	
Job No. Production Order	Inheritance
Production Posting	
Use Production Order No. for Posting ..	Yes
Posting Doc. No. Time Entries Per	Production Order
Posting Doc. No. Matr. Entries Per	Production Order
Base Calendar Code	PRODUCTION

BASE CALENDAR CODE

With this Parameter, you can choose which **Base Calendar** you want to use for your Day Profiles, to determine what the working- and non-working days are.

If this **Base Calendar Code** states that a day is non-working, then this will overwrite the Day Profile on any level.

If no **Base Calendar Code** has been filled, the **Base Calendar Code** in the **Company Information** will be taken to determine the usual non-working days (like i.e., the National Holidays).

Numbering	
Production Document Nos.	PRODDOC
Make-to-Stock Nos.	PRODMTS
Make-to-Order Nos.	PRODMTO
Production Series Nos.	PRODSEIE
Production Collecting Order Nos.	PRODCOL
Complaint Make-to-Order Nos.	PRODMTOCOMPL

The Number Series **Make-to-Stock Nos.** (for Inventory Initiated Production Orders), **Make-to-Order Nos.** (for Related Production Orders) and **Production Collecting Order Nos.** must be filled.

Production	
Bill of Materials	
Include Production Line if Quantity is 0 (Zero)	☐
BOM Description -> Production Line	☐
VarDim Inheritance by Phantom Item	From Phantom Item
Create Underlying Related Orders	When Replenishment Policy at Production Line is Set to Order

CREATING UNDERLYING RELATED ORDERS

This Parameter determines at which level of a BOM structure to stop creating Related Orders.

You can choose between the following two options:

When Replenishment Policy at Production Line is Set to Order	A Related Order will always be created if Replenishment Policy of the Item is <i>Order</i> .
When Create Related Order Instantly is Set on Item	A Related Order will only be created if Replenishment Policy of the Item is <i>Order</i> and Create Related Order Instantly of the Item is <i>Yes</i> .

Registration	
Prod. Order Lines	
Time for Regeneration of Related Production Or...	Online
Finishing	
Material Consumption Method	Manual
Outstanding Material by Finishing	Reset
Time for Related Order Posting	By Sales Order Posting
Finish Production Order by Task Registration	No
Close Inventory Production Orders at Finishing	☐
Close Order Production Orders at Finishing	☐
Automatically Archive Production Orders at Close	☐
Journal Types	
General Journal Template for Production Order P...	PRODUCTION
Production Journal Batch	DEFAULT
Approve Parameters	
Approve Increased Material Consumption	Ask if Finished more than Planned (Default No)
Approve Reduced Material Consumption	Ask if Finished less than Planned (Default No)
Approve Change of Released Production Order	Ask if the Production Order is Released (Default No)
Approve Finishing Production Order	Ask if Finished Quantity is larger than Planned (Default No)

TIME FOR REGENERATION OF RELATED PRODUCTION ORDER

When you change a value in a VarDim Order attached to a Sales Line, the system will check whether a Related Production Order has already been created.

If so, the Related Production Order will be deleted and regenerated. You can use this Parameter to determine when the Related Production Order will be regenerated.

You can choose between the following two options:

Online	The Related Production Order will be regenerated when you leave the VarDim Order.
MRP Run	The Related Production Order will be regenerated next time you run an MRP .

Capacity Planning	
Partly Finished Operation	None
Delivery/Prod. Times	
Available Date is Exact Date	☒
Calculate Start/End Date Production Header	Due to Lead Time Calculation of Item
Calculate Start/End Date Production Line	Due to Start/End Date Production Header
Production Series	
Production Series for Sales Line	None
Bottleneck	
Bottleneck Reservation Method	Requested Week

AVAILABLE DATE IS EXACT DATE

This Parameter is used with MRP Calculations. In connection with an MRP Calculation, you should also specify the Parameters **Horizon MRP** and **MRP Period** in the Inventory Setup.

If the **MRP Period** for instance is a week, the MRP run will identify any lack of Materials in each week within the **MRP Horizon** and create a Purchase Order or a Production Order to cover the need. The available Date of such an Order will be set to the day before the first day of the week where the Items are needed.

If you set this Parameter to Yes, the system will find the first day where the lack of Materials exactly shall be used and change the available day to the day before this Date.

CALCULATE START/END DATE PRODUCTION HEADER

When you create a Production Header, **Start Date** and **End Date** can be set automatically.

You can use this Parameter to determine how these Dates will be updated.

You can choose between the following three options:

Due to Lead Time Calculation of Item	If the Start Date is set, the End Date will be calculated using the Lead Time Calculation of the Item. If the End Date is set, the Start Date will be recalculated likewise.
Due to Start/End Dates of Production Lines	The Start Date and End Date will not be updated until the Production Lines have been created. Then Start Date will be updated with the earliest Start Date of the Production Lines and End Date will be updated with the latest End Date of the Production Lines.
Due to Start/End Dates of Production Series	If Production Series is entered, Start Date will be updated with the Start Date of the Production Series and End Date will be updated with the End Date of the Production Series . If the Production Series is not filled, Start Date and End Date will be updated using the method <i>Due to Lead Time Calculation of Item</i> (see description of first option).

CALCULATE START/END DATE PRODUCTION LINE

When you create a Production Line, **Start Time** and **End Time** can be set automatically.

You can use this Parameter to determine how these time indications will be updated.

You can choose between the following four options:

Due to Start/End Date Production Header	Start Date and End Date will be updated with the respective Start Date and End Date of the Production Header.
Capacity Calculation	Start Date and End Date will be calculated based on the available capacity found via the respective Work Center (TRIMIT) calendars.
Stagger Due to Production Series	Start Date and End Date will be calculated and updated, using the respective Start Date and End Date of the Production Series of the Production Header.
Stagger Due to Production Header	Start Date and End Date will be calculated and updated, using the respective Start Date and End Date fields of the Production Header.

NOTE

The Parameters of the **Production Setup** Page are in Table **313 Inventory Setup**

PURCHASE & PAYABLES SETUP

This setup can be found via **Search Purchases & Payables Setup**

Number Series		Show less	
Vendor Nos.	VEND	Posted Credit Memo Nos.	P-CR+
Quote Nos.	P-QUOTE	Posted Receipt Nos.	P-RCPT
Blanket Order Nos.	P-BLK	Posted Return Shpt. Nos.	P-SHPT
Order Nos.	P-ORDER	Posted Prepm. Inv. Nos.	P-INV+
Return Order Nos.	P-RETORD	Posted Prepm. Cr. Memo Nos.	P-CR+
Invoice Nos.	P-INV	Summary Ship./Inv.	
Posted Invoice Nos.	P-INV+	Summary Invoice Nos.	P-SUMINV
Credit Memo Nos.	P-CR	Summary Receipt Nos.	P-SUMRCP

The Number Series for **Quote Nos.** and **Order Nos.** need to be filled.

Vendor	
Standard Vendor	STD
Vendor Search	☐
Skip Vendor Search via Purchase Price table	☐

STANDARD VENDOR

The Parameter **Standard Vendor** must be filled. The MRP will create Purchase Orders or -Requisitions (Quotes) for this Vendor if no **Vendor No.** is filled in the Item.

FIELDS FOR MRP ON THE MASTER/ITEM/SKU CARD

Below is a description of the TRIMIT fields on the Master, Item and SKU in connection to TRIMIT MRP.

As normal, all fields from the Master are transferred to the Item (and from the Item to the SKU) when the Items are created based on the Master or if fields on the Masters are changed.

Individual settings can be set on the individual Items and/or SKU's.

The MRP Calculation will first check if an SKU exist for a specific *Item + Location* for the necessary fields.

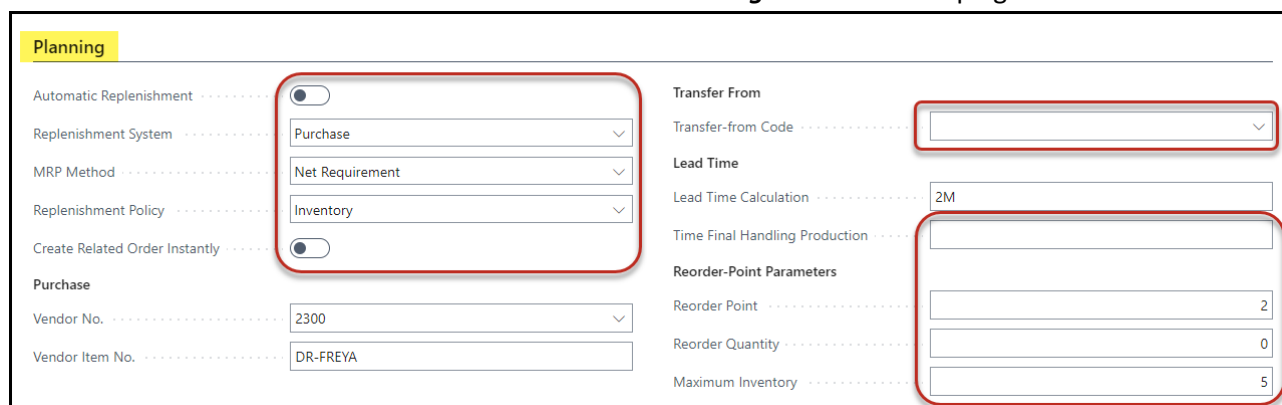
If this SKU does not exist, it will check the fields on the Item.

FIELDS ON MASTER, ITEM SKU CARD, FASTTAB PLANNING

For Master and Item:

Planning		Show less	
Purchase		Lead Time Calculation	
Vendor No.	2400	Time Final Handling Production	
Vendor Item No.	TR_AMELIA	Reduce Production Order Quantity	
Purch. Unit of Measure	PCS	Process Waste	
Over-Receipt Code		Scrap %	
MRP		Lock by Release of Related Order	
Include in MRP	☒	Material Consumption Method	
Automatic Replenishment	☒	Material Consumption on Demand	
Replenishment System	Purchase	Finishing Method Related Order	
Replenishment Policy	Inventory	Production Order No. Mandatory	
Create Related Order Instantly	☒	BOM Information	
MRP Method	Net Requirement	BOM	
Horizon MRP	0	Phantom Item	
MRP Period		BOM Unit of Measure	
MRP Responsible		Information Item	
Reorder-Point Parameters		Exclude from Transfer on Prod. Collecting Order	
Reorder Point	0		
Reorder Quantity	0		
Maximum Inventory	0		

Some of these fields can also be found on the FastTab **Planning** of the Stockkeeping Unit:



DESCRIPTION OF THE FIELDS:

INCLUDE IN MRP

If this field is set to *No*, this Master/Item will be skipped when running an MRP. If the Item is included in a BOM related to a Master/Item with the field **Create Related Order Instantly** set to *Yes*, it will not be included in the availability check unless this field is set to *Yes*.

NOTE

Blocked Items are always excluded from the MRP.

AUTOMATIC REPLENISHMENT

Without a checkmark in this field, the **Replenishment System** determines if the Item will be bought (Purchase) or produced (Production Order).

With a checkmark in this field, the system will determine automatically, if it should be bought (there are no Bill of Materials Lines) or produced (there are Bill of Materials Lines).

NOTE

A **Replenishment System** *Transfer* in a SKU will overrule the **Automatic Replenishment**.

REPLENISHMENT SYSTEM

In this field, you can select the type of order to be used by the system when creating Orders and Order Suggestions by running the MRP.

In the Master/Item Card, you can choose between the following two options:

Prod. Order	A Production Order will be created to replenish the Inventory. Even if there is no BOM.
Purchase	A Purchase Order will be created to replenish the Inventory. Even if there is a BOM.

On the SKU Card, there are two more options:

Transfer	A Transfer Order will be created to replenish the Inventory.
Assembly	Only when using flat Items (without a Master or specific TRIMIT functionality like the configuration) you can use this option to create an Assembly Order. This is however not supported in the MRP Calculation of TRIMIT. Therefore, you need to use standard Business Central Planning Worksheet. Instead of using <i>Assembly</i>, we advise to use <i>Prod. Order</i> – and let the Bill of Materials be the Items you need to assemble.

REPLENISHMENT POLICY

You can use this field to determine how the Item is replenished.

You can choose between the following three options:

Inventory	The Item will be included in an MRP Calculation unless the field Include in MRP is set to <i>No</i> .
Order	The Item will be skipped in an MRP Calculation, because a Related Order will be created every time the Item is used in a Sales Order or a Production Order – depending on the fields in the MRP Setup.

CREATE RELATED ORDER INSTANTLY

This field cannot be set to *Yes* unless **Replenishment Policy** is set to *Order*. When this field is set to *Yes*, a Related Order will be created automatically when the Master/Item is used in a Sales Line, or a Production Order Line and the Quantity is entered.

If the Parameter **Instant Reservation Underlying Level** in the Sales & Receivables Setup – FastTab **Info and Prices** is set to *Yes*, an Instant Reservation will not be created until the Item is used in a Sales Order.

Afterwards the Instant Reservation will be converted to a Related Order.

MRP METHOD

You can use this field to determine how the MRP calculates the demand of the Item when the field

Calculation Method in the **MRP Setup** is set to *By Item*.

You can choose between the following four options:

Min. Reorder Quantity	The quantity to be ordered will be set to Maximum Inventory reduced by the calculated quantity available. If Maximum Inventory is less than Reorder Point , Maximum Inventory that will be used in the calculation of the quantity to be ordered will be set to Reorder Point . If the calculated quantity to be ordered is less than Reorder Quantity , the quantity to be ordered will be set to Reorder Quantity .
Net Requirement	The quantity to be ordered will be set to Maximum Inventory reduced by the calculated quantity available. If Maximum Inventory is less than Reorder Point , Maximum Inventory that will be used in the calculation of the quantity to be ordered will be set to Reorder Point .
Multiple of Order Volume	The quantity to be ordered will be set to the multiple of Reorder Quantity , which can result in a quantity in stock larger than Maximum Inventory . If Maximum Inventory is less than Reorder Point , the Maximum Inventory that will be used in the calculation of the quantity to be ordered will be set to Reorder Point .
Gross Requirement	The quantity to be ordered will be set to the exactly calculated quantity. The calculated quantity will not be reduced by the quantity available.

Examples of how the options work for a single MRP Period if there is no available quantity.

				MRP Method in Master/Item			
			Requirement	Min. Reorder Quantity	Net Requirement	Multiple of Order Volume	Gross Requirement
Example 1	Reorder Point	0	50	100	50	100	50
	Reorder Quantity	100	150	150	150	200	150
	Maximum Inventory	0					
Example 2	Reorder Point	75	50	125	125	200	50
	Reorder Quantity	100	150	225	225	300	150
	Maximum Inventory	0					
Example 3	Reorder Point	75	50	250	250	300	50
	Reorder Quantity	100	150	350	350	400	150
	Maximum Inventory	200					

Requirement is the quantity you need based on i.e., Sales Orders.

NOTE

If there is no demand (**Requirement** in the above schedule) based on Sales Orders or Production Component Lines, the MRP Calculation will only calculate the necessary quantity based on **Reorder Point** and **Maximum Inventory**, if the **Reorder Point** is ≤ 0 .

NOTE

The fields **Reorder Point**, **Reorder Quantity** and **Maximum Inventory** can be important as well for the MRP Calculation but are not described here: they are standard Business Central fields. However, especially regarding MRP Calculation resulting in Transfer Orders, these fields need to be set. Not even on the Item, but on the **Stockkeeping Units** based on *Item + Location*. To change the values on Items and Stockkeeping Units in an effortless way, you can use the TRIMIT Item and SKU Maintenance functionality, which is in detail described in the **White Paper – TRIMIT Item and SKU Maintenance**.

HORIZON

The **Horizon** describes how many **MRP Periods** to create Orders for.

Example: *1W* in **MRP Period** and *4* in **Horizon** calculates the demand 4 weeks forward (with one Order (Line) per week).

Filling this field is optional as the **Horizon** can also be set via the **MRP Setup**.

MRP PERIOD

The **MRP Period** (Date Formula field) describes the period in which a demand should be created.

Example: *1W* is describing that all demand in a week is accumulated and one Order (Purchase Line, Production Order or Transfer Line) is created.

Filling this field is optional as the **MRP Period** can also be set via the **MRP Setup**.

MRP RESPONSIBLE

In this field related to the **Salesperson/Purchaser** table, you can enter the person who is responsible for purchasing, producing, or transferring the Master/Item. An MRP Calculation will then also automatically mark the created Purchase Orders or Quotes with this person as the **Purchaser** who is responsible for the purchasing.

TIME FINAL HANDLING PRODUCTION

Here you can enter a Date Formula to be used calculating the **End Date** of the Production Order based on *Available Date*.

INFORMATION ITEM

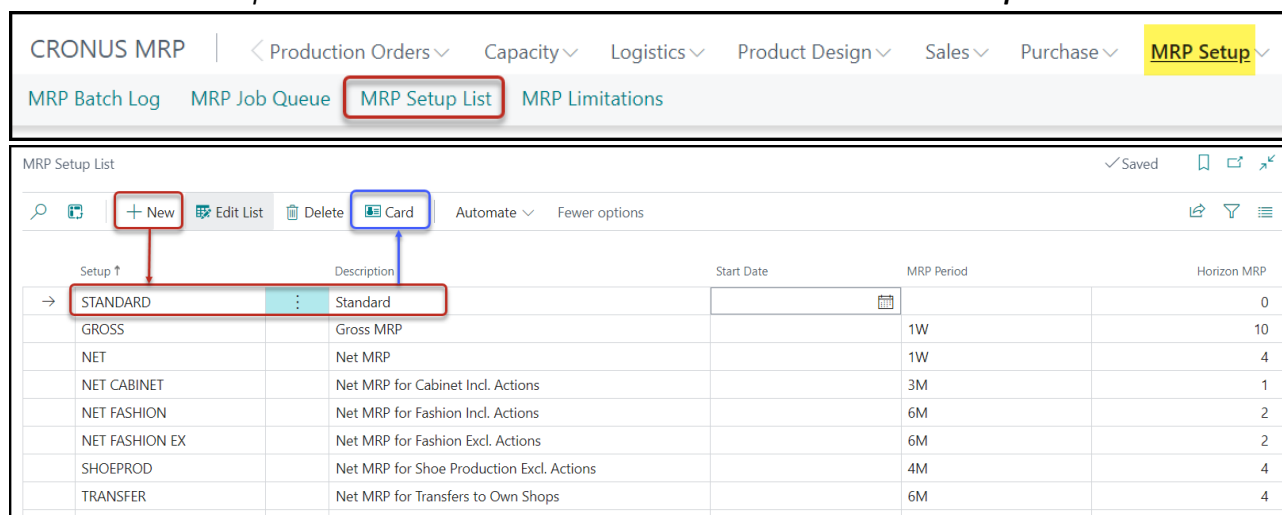
Especially for Items used in Bill of Materials, you can determine if a Master/Item is only for Information. In that case, you can enter a checkmark in this field, and the Master/Item will not be included in the MRP Calculation. This will overrule the content of the field **Include in MRP**.

This field can however also be set in specific Component Lines of a Bill of Materials and in Production Lines itself.

You can i.e., think about bulk materials like pins that are used, but not actually bought based on demand. You simply buy a whole box when the previous box is half-full.

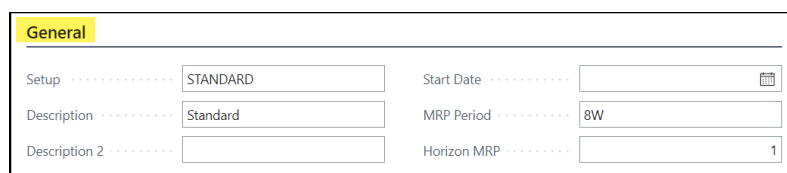
MRP SETUP

A multiple **MRP Setups** for the MRP Calculation can be created. You can maintain or create an **MRP Setup** via **Search MRP Setup List** or in the Role Center **TRIMIT Production** under **MRP Setup**:



To create/maintain a new MRP Setup click **+ New**, enter a Code for the new MRP Setup (i.e.: **STANDARD**) and go to the Card via click **Card**.

FASTTAB GENERAL



DESCRIPTION OF THE FIELDS:

SETUP

The code of the **MRP Setup**

DESCRIPTION

Here you can enter a **Description** for the **MRP Setup**

DESCRIPTION 2

Here you can enter a **Description 2** for the **MRP Setup**

START DATE

Here you can set the **Start Date** for the MRP Calculation. The **Set Start Date** field on the FastTab **Parameters** must be set to *Manually* to use this Date.

MRP PERIOD

The **MRP Period** (Date Formula field) describes the period for which a demand should be created. Example: *1W* is describing that all demand in one Week is accumulated and one Order (Purchase, Production or Transfer) is created.

NOTE

If this field and the **Horizon** field are empty, the MRP Calculation is looking at the **MRP Period** field and the **Horizon** field on the Item Card for the individual Items included in the MRP Calculation if the **Calculation Method** in the **MRP Setup** is set to *By Item*.

If the field is filled in the **MRP Setup**, the **MRP Period** field and the **Horizon** field on the Item Card will be overruled. If the field is not filled in the **MRP Setup** (or the Item), it will be taken from the **Inventory Setup** (FastTab **Info and Prices**).

HORIZON

The **Horizon** describes how many **MRP Periods** to create orders for.

Example: *1W* in **MRP Period** and *4* in **Horizon** calculates the demand 4 weeks forward (with one Order (Line) per week).

NOTE

If this field and the **MRP Period** field are empty, the MRP Calculation is looking at the **MRP Period** field and the **Horizon** field on the Item Card for the individual Items included in the MRP Calculation if the **Calculation Method** in the **MRP Setup** is set to *By Item*.

If the field is filled in the **MRP Setup**, the **MRP Period** field and the **Horizon** field on the Item Card will be overruled. If the field is not filled in the **MRP Setup** (or the Item), it will be taken from the **Inventory Setup** (FastTab **Info and Prices**).

FASTTAB PARAMETERS

Parameters	
Basic	
Calculation Method	Net
Assign Production Order Document Type	Order
Assign Purchase Document Type	Order
MRP Method	One Level
Production Series Allocation Method	Specify Production Series by Setup
Assign Production Series	
Delete Suggestion	No
Skip Creation of Related Order	☒
Create only Related Orders	☒
Only Create Related Orders for Released S... ..	☒
First Period Equals Delivery Time	No
Set Start Date	Date Calculated
Start Date Formula	
Cover Requirement at Start Date	☒
Log Error Message	☒
Actions	
Action Setup	All
MRP Action Journal Batch Name	DEFAULT
Filter Production Order	Include Status New
Filter Purchase Order	Exclude No. Printed > 0
Filter Transfer Order	Include Status Open
Action Posting	Manually
Action Posting Codeunit	0 ...
Buffer	
Generate Buffer	Temporary
Codeunits	
Pre-Codeunit	0 ...
Post Codeunit	0 ...

DESCRIPTION OF THE FIELDS:

CALCULATION METHOD

The choice of **Calculation Method** decides which method will be used in calculating the Quantities to Produce or Buy.

You can choose between the following three options:

Net	The quantity to be ordered will be set to Maximum Inventory reduced by the calculated quantity available. If Maximum Inventory is less than Reorder Point then the Maximum Inventory will be set to Reorder Point to calculate the total quantity that needs to be ordered. The field for MRP Method on the Item (or SKU) will be overruled.
Gross	The quantity to be ordered will be set to the exactly calculated demanded quantity. The calculated quantity will not be reduced by the quantity available. The field for MRP Method , Maximum Inventory , Reorder Quantity and Reorder Point on the Item (or SKU) will be overruled.
By Item	The MRP Method on the Item (or SKU) will be used.

NOTE

If you want to calculate the needed quantity to purchase, produce or transfer + solely based on **Reorder Point** (which needs to be a quantity ≤ 0) and **Maximum Inventory**, and not based on existing Sales Orders and/or Production Component Lines, you need to set the **Calculation Method** to *By Item*.

ASSIGN PRODUCTION ORDER DOCUMENT TYPE

The choice of **Assign Production Order Document Type** determines the **Document Type** for the created Production Orders.

You can choose between the following two options:

Suggestion	The MRP will create Production Orders with Document Type <i>Suggestion</i>
Order	The MRP will create Production Orders with Document Type <i>Order</i>

ASSIGN PURCHASE DOCUMENT TYPE

The choice of **Assign Purchase Document Type** determines the **Document Type** for the created Purchase.

You can choose between the following two options:

Requisition	The MRP will create Purchase Requisitions (Quotes)
Order	The MRP will create Purchase Orders

NOTE

Assign Production Order Document Type and **Assign Purchase Document Type** should be set to *Order* if you will use the **MRP Actions** (see [Action Setup](#)). The Action Lines already give you an overview of Quantities that needs to be bought, produced, or transferred, which can be changed, so when posting the MRP Actions, the system should immediately create Orders.

MRP METHOD

The choice of **MRP method** decides in which way the Items in the MRP Calculation are put in the Calculation Buffer and how the suggestions, quotes or orders are generated.

You can choose between the following three options:

One Level	All BOM's are exploded and inserted in a single Calculation Buffer in a sorting depending on the Low-Level Code. The Calculation Buffer is calculated with the lowest Low-Level Code first, and suggestions, quotes or orders are generated. With this method the suggestions, quotes or orders are not traceable
More Levels by Vertical Track	For each Top-Level Item, the BOMs are exploded and inserted in a Calculation Buffer. The Calculation Buffer is calculated with the lowest Low-Level Code first, and suggestions, quotes or orders are generated. The same process is repeated for the next Item at Top-level. With this method the suggestions, quotes or orders are traceable to the Top-Level Item.
More Levels by Production Series	All BOMs for a specific Production Series are exploded and inserted in a single Calculation Buffer in a sorting depending on the Low-Level Code. The Calculation Buffer is calculated with the lowest Low-Level Code first, and suggestions, quotes or orders are generated. The same process is repeated for the next Production Series. With this method the suggestions, quotes or orders are traceable through the Production Series.

The illustration below shows the difference between the three methods:

MRP Calculation Basis	MRP Method		
	One Level	More Levels by Vertical Track	More Levels by Prod. Series
Order 1 Prod. Series X Item A 1 Item B 2	Buffer Item A 9 Item B 2 Item C 10	Buffer Order 1 Item A 1 Item B 2	Buffer Prod. Series X Item A 6 Item B 2 Item C 6
Order 2 Prod. Series Y Item A 3 Item C 4		Buffer Order 2 Item A 3 Item C 4	Buffer Prod. Series Y Item A 3 Item C 4
Order 3 Prod. Series X Item A 5 Item C 6		Buffer Order 3 Item A 5 Item C 6	

PRODUCTION SERIES ALLOCATION METHOD

The choice of **Production Series Allocation Method** determines how the Production Series is filled in the new Quotes/Orders/Suggestions that might be created during the MRP Calculation.

You can choose between the following three options:

Specifying Production Series by Setup	The Value in the Field Assign Production Series is assigned to all Purchase Quotes/Orders, Production Suggestions/Orders, Production Collecting Orders or Transfer Orders created by the MRP Calculation.
Inherit Production Series from Start Level	The Production Series of the new Purchase Quotes/Orders, Production Suggestions/Orders, Production Collecting Orders or Transfer Orders that will be created by the MRP Calculation will be determined on bases of the Production Series in the original demand (that can be a Sales Line or the original Production Order)

Date Calculated	The created Quotes/Orders are assigned a Production Series where the End Date of the Production Series is at least 1 day before the demanded Date in the original Sales Line or Production Order Line.
-----------------	---

ASSIGN PRODUCTION SERIES

If the field **Productions Series Allocation Method** is set to *Specifying Production Series by Setup*, you can choose the Production Series to assign to all Purchase Quotes/Orders (Lines), Production Suggestions/Orders, Transfer Orders (Lines) and Production Collection Order Lines created by the MRP Calculation. If you calculate with a filter on Production Series, it will be common to use the same Production Series to assign to the Orders created.

DELETE SUGGESTIONS

The choice of **Delete Suggestions** determines what the MRP Calculation should do with already present Purchase Quotes or Production Suggestions.

You can choose between the following three options:

No	All Production Orders with Document Type Suggestion and all Purchase Requisitions (Quotes) will be maintained.
Production Series	All Production Orders with Document Type Suggestion and all Purchase Requisitions connected to the Production Series in the field Assign Production Series will be deleted before the MRP is initiated.
All	All Production Orders with Document Type Suggestion and all Purchase Requisitions will be deleted before the MRP is initiated.

SKIP CREATION OF RELATED ORDER

This field determines if the creation of Related Orders should be skipped during MRP Calculation.

☐	The MRP Calculation creates Related Orders on all Sales Lines and Production Order Lines before the calculation is carried out. The Related Orders will be created on all Items with Replenishment Policy is <i>Order</i> .
☒	No Related Orders will be created during the MRP Calculation. Only Orders already existing in the system will be calculated.

CREATE ONLY RELATED ORDERS

This field determines if the MRP Calculation should only create Related Orders based on Sales Lines and nothing else.

☐	The settings in Skip Creation of Related Orders are taken in consideration
☒	The MRP Calculation will stop after the Related Orders have been created, and no other demand calculation will take place. The Related Orders will be created on all Items with Replenishment Policy is <i>Order</i> .

NOTE

Skip Creation of Related Order and **Create Only Related Orders** is not applicable for Items that have a checkmark in **Created Related Orders Instantly**, because for those Items the Related Orders were already created when entering or determine the Quantity on the Sales Line or Production Order Line.

ONLY CREATE RELATED ORDER FOR RELEASED SALES DOCUMENTS

This field determines if the MRP Calculation should create Related Orders for *Released* Sales Documents or also for *Open* Sales Documents.

	If Related Orders should be created based on the settings of the Skip Creation of Related Orders and Create Only Related Orders , the MRP Calculation will create them for all applicable Sales Document Lines.
	If Related Orders should be created based on the settings of the Skip Creation of Related Orders and Create Only Related Orders , the MRP Calculation will only create them for all applicable Sales Documents Lines if the Status in the Sales Header is <i>Released</i> .

FIRST PERIOD EQUALS DELIVERY TIME

This field determines if the first **MRP Period** should equal the **Lead Time** of the Item. In a situation where the Lead Time of an Item is less than the MRP Period there is a risk that multiple Orders can be created to cover the same need, as the Orders created in the first period could have an end date/receipt date later than the end date of the calculated period.

No	The Lead Time of the Item/Vendor is not taken in consideration.
Yes	The Lead Time of the Item/Vendor and the Production Time of the Item are taken in consideration, which means that first possible Receipt Date of Purchase or End Date of Production Order is calculated as TODAY + Lead Time of the Item. Search direction is Item, Vendor. If Multiple Horizons is used this Field should be set to Yes.

SET START DATE

This field determines how the **Start Date** of a Production Order/Suggestion is calculated or the **Order Date** of a Purchase Quote/Order.

You can choose between the following three options:

Manually	The Date is set via the field Start Date (on the FastTab General)
Monday - Sunday	The Date of the Weekday is calculated on basis of the week for WORK DATE.
Date Calculated	The Date is calculated based on the field Start Date Formula .

START DATE FORMULA

This field, which is a Date Formula, is only used if **Set Start Date** is set to **Date Calculated**. The Date is calculated based on the WORK DATE.

COVER REQUIREMENT AT START DATE

This field determines if negative stock before the Start Date of the calculation should be included in the calculation or not.

	Negative stock before the Start Date of the MRP Calculation will be included in the Calculation
	Negative stock before the Start Date of the MRP Calculation will not be included in the Calculation

NOTE

If you want to calculate the Demand not based on Sales Orders, but based on the **Reorder Point** and **Maximum Inventory**, you need to have a checkmark in this field.

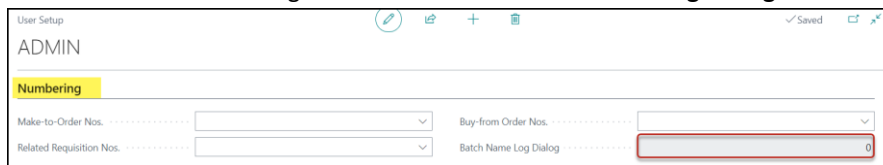
If you have a checkmark in this field and there is a Demand before the Start Date of the MRP Calculation, then it will create an Order with a Delivery Date 1 **MRP Period** before the Start Date of the MRP Calculation

LOG ERROR MESSAGES

☐	The MRP Calculation stops if an error occurs
☒	The MRP Calculation continues if an error occurs, and an error is written in the Error Log. You need to check these errors and solve them.

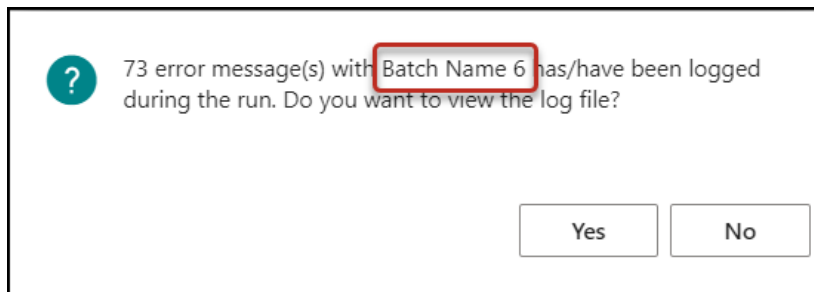
NOTE

If **Log Error Messages** is set to Yes, you need to be created as User in the **User Setup** for the determination of a **Batch Name** for the error message based on the field **Batch Name Log Dialog** in the **User Setup**.



Do not set the field **Log Error Messages** to Yes if customers are starting with TRIMIT; it could easily give error messages because of a wrong setup on Bill of Materials. In that case, it is much better to see the error immediately and stop the MRP Calculation, and therefore react on it right away.

If any errors exist during the MRP Calculation and the **Log Error Messages** was set to Yes, you can get a message. I.e.:



Clicking **Yes** will open the first error message of **Batch Name** is 6:

Manage **Page**

Previous Next

EDIT - ERROR MESSAGE LOG - CORNATOR(KBI) 6.1

General

CONTROL6036530

User ID CORNATOR(KBI)

Batch Name 6

Object Type Codeunit

Object No. 6037038

Message Text The item M2100 could not be created with all variant values. Please check the inheritance of variants in the BOM, VarDim item or VarDim master.

References

General Reference Object Type-> Codeunit/Object No.-> 6037038/Message No.-> 3\

Extended Reference 1 Item Start Level-> 20000136/Item Overlying Level-> 20000136/Item Current Level-> 20000136\

Extended Reference 2 BOM Type-> Master BOM/BOM No.-> 2000/BOM Line No.-> 40000\

References 2

Creation Date	17-7-2020	Item Current Level	20000136	BOM No.	2000
Creation Time	10:35:53	Initiating Order Type Start Level		BOM Line No.	40000
Message Type	Error	Initiating Document Type Start Level	Quote	Formula Type	Sales Line
Message No.	3	Initiating Order No. Start Level		Formula No.	
Item Start Level	20000136	Initiating Order Line No. Start Level	0	Formula Line No.	0
Item Overlying Level	20000136	BOM Type	Master BOM	Consistent Inheritance	☐

Close

Via click **Page**, click **Previous** or **Next** you can go through the 73 different error messages, and see all the details of every individual error message.

In this example (based on manipulated BOM for 2000) the system would still create a Line in the MRP Actions (based on the field **Action Setup** of the MRP Setup) for producing the Item **20000136**, but when you try to **Post** (execute) the Actions, you would still get the error message immediately.

! The item M2100 could not be created with all variant values. Please check the inheritance of variants in the BOM, VarDim item or VarDim master.

Object Type-> Codeunit
Object No.-> 6037038
Message No.-> 3

Item Start Level-> 20000136
Item Overlying Level-> 20000136
Item Current Level-> 20000136
Initiating Order Type Start Level-> Production Line
Initiating Document Type Start Level-> Quote
Initiating Order No. Start Level-> PI000001
Initiating Or
BOM Type-> Master BOM
BOM No.-> 2000
BOM Line No.-> 40000

OK

Click **OK**

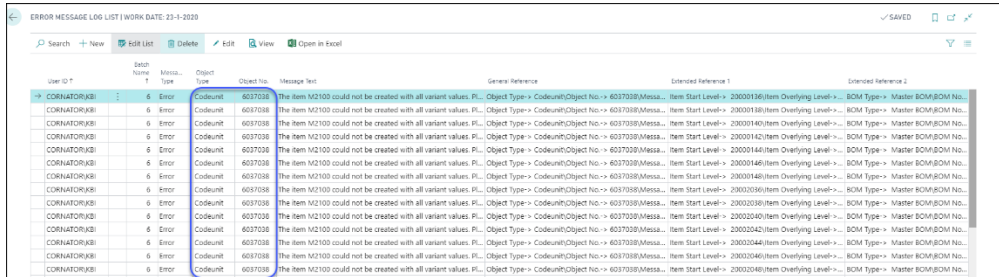
The process for creating Production-/Purchase-/Transfer Orders will be canceled automatically.

NOTE

A normal user will get the “blue-part” of the message.

The “yellow-part” of the message above, is because the Parameter **Message Level** in the **User Setup** was set to **Extended + Support**.

You can also look at all Error Messages that occur during the MRP Calculation via **Search Error Message Log List**. Only the lines with **Object Type Codeunit** and **Object No. 6037308** are applicable for the MRP Calculation.



User ID	Batch Name	Message No.	Object Type	Object No.	Message Text	General Reference	Extended Reference 1	Extended Reference 2
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000138/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000138/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000140/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000142/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000144/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000146/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000148/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000150/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000152/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000154/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000156/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000158/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000160/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000162/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000164/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000166/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000168/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000170/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000172/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000174/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000176/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000178/Item Overlying Level -> ...
CORINATORUKI		6	Error	Codeunit	6037308	The item M2100 could not be created with all variant values. R...	Object Type -> Codeunit/Object No -> 6037308/Messa...	Item Start Level -> 20000180/Item Overlying Level -> ...

ACTION SETUP

The choice in this field decides if **MRP Actions Lines** must be created or not.

The Action Lines can be used to increase visibility of the status of Orders/Suggestions/Quotes already created and the stock, and to evaluate the suggested Quantity to order.

A Calculation Buffer is created before the MRP Calculation really starts to calculate what is required containing the Production Orders, Purchase Orders and Transfer Orders in the system, where after the Orders are deleted temporary and the new MRP Calculation is carried out.

Hereafter a comparison of the pre- and post-situation is created and increase/decrease of demands for new orders or deleting of orders is evaluated.

The results of the MRP Calculation with Actions are monitored in the page [MRP Actions](#).

An MRP Calculation with Actions must be called with an **MRP Action Journal Batch Name**, and the MRP Calculation must be started via the page **MRP Actions**

You can choose between the following three options:

No	No MRP Action Lines will be created. The MRP Calculation will create the new Purchase Quotes/Orders, Production Suggestions/Orders, Production Collecting Orders immediately. It will NOT create Transfer Orders; that is only possible if you use the MRP Actions by choosing one of the other two options.
Filter Production Series	Action Lines are created. Only Production Orders, Purchase Orders and Transfer Orders with the Production Series Nos. according to the field Filter Production Series are included in the Calculation Buffer
All	Action Lines are created. All Production Orders, Purchase Orders and Transfer Orders are included in the Calculation Buffer, taking the choices in the fields Filter Production Order, Filter Purchase Order and Filter Transfer Order in consideration.

NOTE 1

If the field **Action Setup** is not filled with *No*, the MRP Setup can only be used in the page **MRP Actions**.

NOTE 2

The MRP Actions could roughly be compared with the Planning Worksheet of standard Business Central - which is not used within TRIMIT because of our own Production Module:

You will get a list with suggestions that you need to approve before you can post the lines (carry out action message of standard Business Central).

MRP ACTION JOURNAL BATCH NAME

This field will be filled automatically with the last chosen **Journal Batch Name** when running the MRP Calculation.

FILTER PRODUCTION ORDER

The choice in this field controls which Production Orders must be added in the Calculation Buffer.

You can choose between the following four options:

Include Status New	Only Production Orders with status <i>New</i> will be included. If changes are suggested to Production Orders with status <i>New</i> the field Approve in the MRP Action Lines will be set by default to <i>TRUE</i> .
Include Status New and Planned	Production Orders with status <i>New</i> and <i>Planned</i> will be included in the Calculation Buffer. If changes are suggested to existing Production Orders with status <i>New</i> , the field Approve in the MRP Action Lines will be set by default to <i>TRUE</i> . If changes are suggested to existing Production Orders with status <i>Planned</i> the field Approve in the MRP Action Lines will be set by default to <i>FALSE</i> . If the field Action for the MRP Action Line is specified as <i>New Order</i> or <i>Increase Order</i> the field Sub-Action will automatically be set by default as <i>Difference On New Order</i> .
Exclude Status Finished	All Production Orders beside the Production Orders with status <i>Finished</i> will be included in the Calculation Buffer. If changes are suggested to existing Production Orders with status <i>New</i> the field Approve in the MRP Action Lines will be set by default to <i>TRUE</i> . If changes are suggested to existing Production Orders with status <i>Planned</i> , the field Approve in the MRP Action Lines will be set by default to <i>FALSE</i> . If the field Action for the actual MRP Action Line is specified as <i>New Order</i> or <i>Increase Order</i> the field Sub-Action will automatically be set by default as <i>Difference On New Order</i> .
No Recalculation of Existing Orders	Existing Production Orders will be considered in the Calculation Buffer, but no changes will be suggested regarding Quantities or Dates. The new to be created Orders will all have the field Approve in the MRP Action Lines set by default to <i>TRUE</i> . Therefore, i.e., if the Quantity should be increased of an existing Production Order, the Actions Line will suggest creating a new Production Order for the increase or deleting existing Production Orders – because there is no demand – will also not be suggested.

FILTER PURCHASE ORDER

The choice in this field controls which Purchase Orders must be added in the Calculation Buffer.

You can choose between the following five options:

Exclude No. Printed > 0	Only Purchase Orders with 0 (zero) in the Purchase Header field No. Printed (FastTab Misc. Param.) are included. If changes are suggested for these Purchase Orders, the field Approve in the MRP Action Lines will be set by default to <i>TRUE</i> .
Include No. Printed > 0	All Purchase Orders are included.

	If changes are suggested to Purchase Orders with 0 (zero) in the Purchase Header field No. Printed, the field Approve in the MRP Action Line will be set by default to <i>TRUE</i>. If changes are suggested to Purchase Orders with higher value than 0 in the Purchase Header field No. Printed, the field Approve in the MRP Action Lines will be set by default to <i>FALSE</i>. If the field Action for the actual MRP Action Line is specified as <i>New Order</i> or <i>Increase Order</i> the field Sub-Action will automatically be set default as <i>Difference On New Order</i>.
Exclude Status Released	Only Purchase Orders with Status <> <i>Released</i> will be included.
Exclude Status (TRIMIT) Ordered	Only Purchase Orders with Status (TRIMIT) <> <i>Ordered</i> will be included.
No Recalculation of Existing Orders	Existing Purchase Orders will be considered in the Calculation Buffer, but no changes will be suggested regarding Quantities or Dates. The new to be created Orders will all have the field Approve in the MRP Action Lines set by default to <i>TRUE</i>. Therefore, i.e., if the Quantity should be increased of an existing Purchase Order, the Actions Line will suggest creating a new Purchase Order for the increase or deleting existing Purchase Orders – because there is no demand – will also not be suggested.

FILTER TRANSFER ORDER

The choice in this field controls which Transfer Orders must be added in the Calculation Buffer.

You can choose between the following two options:

Include Status Open	Only Transfer Orders with status <i>Open</i> will be included. If changes are suggested to Transfer Orders with status <i>Open</i> , the field Approve in the MRP Action Lines will be set by default to <i>TRUE</i> .
No Recalculation of Existing Orders	Existing Transfer Orders will be considered in the Calculation Buffer, but no changes will be suggested regarding Quantities or Dates. The new to be created Orders will all have the field Approve in the MRP Action Lines set by default to <i>TRUE</i>. Therefore, i.e., if the Quantity should be increased of an existing Transfer Order, the Actions Line will suggest creating a new Transfer Order for the increase or deleting existing Transfer Orders – because there is no demand – will also not be suggested.

ACTION POSTING

The choice in this field determines how the posting of the Action Lines should take place for creating Production Orders, Purchase Orders and Transfer Orders after the MRP Actions Lines have been created.

You can choose between the following three options:

Manually	All MRP Action Lines must be posted manually.
Post Approved	Automatic posting of all MRP Action Lines marked Approved <i>TRUE</i>. MRP Actions Lines marked Approved <i>FALSE</i> must be posted manually. Purchase-, Production- and Transfer Orders will be created/modified with the document type as specified in the fields Assign Production Order Document Type and Assign Purchase Document Type, and the Action and Sub-Action choices.

Post All	Automatic posting of all MRP Action Lines no matter if it is marked Approved <i>TRUE</i> or <i>FALSE</i> . Purchase-, Production- and Transfer Orders will be created/modified with the document type as specified in the fields Assign Production Order Document Type and Assign Purchase Document Type , and the Action and Sub-Action choices.
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ACTION POST CODEUNIT

If you add a Codeunit in this field, you can manipulate the created MRP Action Lines, before posting.
In that case, the Codeunit – Properties - **TableNo.** must be set to *6037305* (MRP Actions)

GENERATE BUFFER

You can determine how the Calculation Buffer should be created which controls, which Items and in which order (Low-Level Code) the Items should be calculated

You can choose between the following three options:

Temporary	The Buffer is created temporary. This is the default for this field.
Disc	The Buffer is written to disc (Table <i>6037016 Production Line Buffer</i>)
No – Use Existing	An existing Buffer should be used (Table <i>6037016 Production Line Buffer</i>)

PRE CODEUNIT

If you add a Codeunit in this field, you can manipulate the MRP Calculation before it is initiated.
In that case, the Codeunit – Properties - **TableNo.** must be set to *6037307* (MRP Setup).

POST CODEUNIT

If you add a Codeunit Number in this field, you can manipulate the MRP Calculation after the calculation of the demand has been finished.

In that case, the Codeunit – Properties - **TableNo.** must be set to *6037307* (MRP Setup).

FASTTAB FILTERS

Filters

Filter Global Dimension 1

Filter Global Dimension 2

Sales

Skip Sales Quote

Skip Sales Invoice

Skip Sales Credit Memo

Skip Sales Blanket Order

Purchase

Skip Purchase Requisition

Skip Purchase Invoice

Skip Purchase Credit Memo

Skip Purchase Blanket Order

Production

Skip Production Suggestions

Other

Skip Inventory

Skip Intercompany Orders

DESCRIPTION OF THE FIELDS:**FILTER GLOBAL DIMENSION 1 / 2**

You can enter a filter for the **Global Dimension 1/2** field. This means that only Sales Lines, Purchase Lines, Production Orders, Production Lines, Transfer Lines, and Inventory Entries will be considered for the demand calculation with this specific Global Dimension 1/2.

NOTE

Using these filters does acquire deep knowledge of the setup of the Global Dimensions 1 and 2, and of the consistent use of the Global Dimensions.

FILTER SALES DOCUMENT TYPE

If the Parameter **Available Date is Exact Date** in the Production Setup is set to *Yes*, you can enter a filter for the **Document Type** of Sales Orders from which the first Available Date is searched.

You can enter the Integers of the options for **Document Type** that are applicable for Sales Documents:

0 = Quote, 1 = Order, 2 = Sales Invoice, 3 = Credit Memo, 4 = Blanket Order or 5 = Return Order.

If this filter is empty, the default is 1/2/3.

FILTER PRODUCTION DOCUMENT TYPE

If the Parameter **Available Date is Exact Date** in the Production Setup is set to *Yes*, you can enter a filter for the **Document Type** of Production Orders from which the first Available Date is searched.

You can enter the Integers of the options for **Document Type** that are applicable:

0 = Suggestion or 1 = Order.

If this filter is empty, the default is 0/1 and then the field **Skip Production Suggestions** is taken into consideration.

SKIP SALES QUOTE

A checkmark  means that Sales Quotes are excluded from the calculation of the demanded quantity.

SKIP SALES INVOICE

A checkmark  means that Sales Invoices are excluded from the calculation of the demanded quantity.

SKIP SALES CREDIT MEMO

A checkmark  means that Sales Credit Memos are excluded from the calculation of the demanded quantity.

SKIP SALES BLANKET ORDER

A checkmark  means that Sales Blanket Orders are excluded from the calculation of the demanded quantity.

SKIP PURCHASE REQUISITION

A checkmark  means that Purchase Quotes are excluded from the calculation of the demanded quantity.

If **Assign Purchase Document Type** is set to *Requisition* and the **Horizon MRP** is higher than 1, this field must be , otherwise the Purchase Quotes already created by the calculation will be ignored by calculating the following periods.

If **Assign Purchase Document Type** is set to *Requisition* and this field is set to , you will get a message:



Setting Skip Purchase Requisition to Yes if Assign Purchase Document Type is Requisition is not valid if multiple Horizon MRP is used. Do you wish to change setting?

Yes

No

Only click **No** if the **Horizon MRP** is 1 otherwise you need to click **Yes**.

SKIP PURCHASE INVOICE

A checkmark  means that Purchase Invoices are excluded from the calculation of the demanded quantity.

SKIP PURCHASE CREDIT MEMO

A checkmark  means that Purchase Credit Memos are excluded from the calculation of the demanded quantity.

SKIP PURCHASE BLANKET ORDER

A checkmark  means that Purchase Blanket Orders are excluded from the calculation of the demanded quantity.

SKIP PRODUCTION SUGGESTION

A checkmark  means that Production Orders of **Type Suggestion** are excluded from the calculation of the demanded quantity.

If the Field **Filter Production Document Type** is filled, the content of this Field will be ignored.

If **Assign Production Order Document Type** is set to *Suggestion* and the **Horizon MRP** is higher than 1, this field must be *FALSE*, otherwise the Production Orders with **Document Type Suggestion** already created by the calculation will be ignored by calculating the following periods.

If **Assign Production Order Document Type** is set to *Suggestion* and this field is set to *Yes*, you will get a message:



Setting Skip Production Suggestions to Yes if Assign Production Order Document Type is Suggestion is not valid if multiple Horizon MRP is used. Do you wish to change setting?

Yes
No

Only click **No** if the **Horizon MRP** is 1 otherwise you need to click **Yes**.

SKIP INVENTORY

A checkmark  means that existing Stock Quantities are excluded from the calculation of the demanded quantity.

SKIP INTERCOMPANY ORDERS

A checkmark  means that all Sales- and Purchase Orders marked as *Intercompany* Orders are excluded from the calculation of the demanded quantity.

If the field **Include Company in Availability Check** in the Intercompany Relations is set to *TRUE*, this field should be *FALSE* otherwise unbalance between created Intercompany Purchase Orders and Intercompany Sales Orders are taken into consideration.

If no checkmark has been entered, the system will however still check the content of the **Include Company in MRP Calculation** in the Intercompany Relations. Only the Intercompany Orders from the companies with a check mark in the Intercompany Relations field **Include Company in MRP Calculation** will be considered.

FASTTAB LOCATION MANAGEMENT

Location Management

Run by Multiple Locations 
Assign Location Code 

Filter Location Code 

DESCRIPTION OF THE FIELDS:

RUN BY MULTIPLE LOCATIONS

A checkmark  in this field will create suggestions for the demand – based on the **Filter Location Code** – and will by default assign the Location of the demand as the Location it calculates. I.e., based on the Location Code of the Sales Lines. Therefore, it will calculate the demand per Location.

This also means that in connection with Transfers, the need for a Purchase or Production for the **From Location** of the Transfer will be calculated as well besides of course the demand for the **To Location**.

If no checkmark  is entered in this field, the suggestions for all demands will simply be suggested without any Location – regardless in which Location the demand is, but you can assign one specific Location with the **Assign Location Code** field for all these demands.

NOTE 1

If you do make use of SKU Cards with a **Replenishment System Transfer**, the field **Run by Multiple Locations** should be set to *Yes*.

In that case, you also need to make sure, that the **Filter Location Code** at least has all the Locations involved in the Transfers to get a complete picture of all the demands.

In that case, the field **Assign Location Code** cannot be filled.

NOTE 2

For all companies with multiple Locations, this field should be set to .

It does not allow you to enter an **Assign Location Code** for the to be created Purchase- or Production Orders, as it by default assigns the Location Code as the Location Code where the demand is.

NOTE 3

Keep in mind that if you create demands per Location, and based on the Master, a Production Order will be created for the same Location as the Location in the Sales Line, also the Component Lines on that Production Order will have the same Location.

NOTE 4

The Location Card has an **MRP Run Priority** Field which makes it possible to control in which order Locations should be calculated (otherwise the order is Alphabetically on Location Code). The chapter [Location](#) explains the functionality.

FILTER LOCATION CODE

Only Items on the specified **Filter Location Code** will be included in the MRP Calculation.

This Filter should be set if **Run by Multiple Locations** is set to *Yes* to make sure that the demand is calculated in right Location Code sorting.

ASSIGN LOCATION CODE

The requirements created in the MRP Calculation will all be assigned to the **Assign Location Code**.

This field cannot be entered if the field **Run by Multiple Locations** is set to .

NOTE 1

A **Filter Location Code** could cause problems, if Materials and Finished Goods are not in the same Location! In that case, the filter might only calculate the demands for Finished Goods, and not the required Materials for the Production Orders. You could however enter a filter with several Locations in it like *CW/BLUE*.

An **Assign Location Code** could cause problems, if Materials and Finished Goods are not in the same Location, the Location Code for the new Purchase Requisitions/Orders and Production Orders and Component Lines would be the same.

In these situations, it might be necessary to have different MRP Setups for your Finished Goods and Materials if you use the **Filter Location Code** and **Assign Location Code**. Different **To Management Levels** could accomplish this – if you have filled this in the individual Masters/Items.

NOTE 2

If you fill the **Assign Location Code**, you are also able to include the Inventory Parameters in the SKU Card as well. I.e., The **Reorder Point** and **Maximum Inventory** will then be taken from the SKU Card of this **Assign Location Code**. If no SKU Card is available, it will of course take the fields from the Item.

FASTTAB ADVANCED

Advanced	
To Management Level	0
Stagger Levels by Gross Calculation	☒
Factor on Sales Requirement	0.00
Rounding of Factor	
Delete and Regenerate Production L... ..	No
Regenerate Deleted Production Lines ..	No
Omit Scrap %	☒
Omit Waste	☒
Use Low-Level Code of the Item	☒
Test VarDim Order	No
Filter Initiating Item	MRP All
Assign Order Type for Purchase	

DESCRIPTION OF THE FIELDS:

TO MANAGEMENT LEVEL

All Items with a Management Level on the Item Card that equals to or is below the specified **To Management Level** will be included in the MRP Calculation.

*I.e.: To Management Level = 5 → All Items with **Management Level 0 to 5** is included in the MRP*
To Management Level 0 means: all Items regardless the **Management Level**.

STAGGER LEVELS BY GROSS CALCULATION

A checkmark ☒ in this field and the **Calculation Method** is *Gross*; the created Orders will be staggered according to the **Start Date** of the Production Line or the **Shipment Date** of the Sales Line instead of the Start Date of the MRP Setup

FACTOR ON SALES REQUIREMENT

If the **Factor on Sales Requirement** is different from 0 (zero) then the calculated “Quantity on Sales Orders” will be multiplied with this Factor in the calculation to calculate the demand.

NOTE

The Factor can represent an extra quantity for Aftersales or perhaps for Sales Orders that still has to come in for Presales.

ROUNDING OF FACTOR

The field **Rounding of Factor** is used together with the **Factor on Sales Requirement** and decides, how the “Quantity on Sales Orders” requirement multiplied with the **Factor on Sales Requirement**, will be rounded.

DELETE AND REGENERATE PRODUCTION LINES

With this field, you can determine if all created Related Production Orders of Sales Lines or Related Production Orders of Production Lines should be deleted and regenerated before the MRP Calculation is performed.

To set this field to *Yes*, the field **Skip Creation of Related Orders** should be ☒.

You can choose between the following two options:

No	Related Production Orders will be created for order-initiated Items on Sales Lines and Production Lines with empty Related Orders before the MRP Calculation.
Yes	All Related Production Orders will be deleted and regenerated before the MRP Calculation.

REGENERATE DELETED PRODUCTION LINES

This field is only in use if the MRP Calculation is run [By Sales Lines](#)

If the field **Delete and Regenerate Production Lines** is **Yes**, this field should be **No** as the lines are already regenerated. To set this field to **Yes**, the field **Skip Creation of Related Orders** should be .

If the Parameter **Time for Regeneration of Related Orders** in the Production Setup is set to *MRP Run*, this field should be **Yes**. You can choose between the following two options:

No	Related Production Orders will be created for order-initiated Items on Sales Lines and Production Lines with empty Related Orders before the MRP Calculation.
Yes	Related Production Orders without Production Lines will be regenerated before the MRP Calculation.

OMIT SCRAP %

	The content of the field Scrap % on the Item Card /Item BOM will be used
	The content of the field Scrap % on the Item Card /Item BOM will be ignored

OMIT WASTE

	The content of the field Process Waste on the Item Card /Item BOM will be used
	The content of the field Process Waste on the Item Card /Item BOM will be ignored

USE LOW-LEVEL CODE OF THE ITEM

	The MRP Calculation uses the auto generated Low-Level Codes created during the MRP Calculation, before calculating the requirement in Low-Level Code sorting (Descending)
	The MRP Calculation uses the Low-Level Codes in the field Low-Level Code on the Item Card, before calculating the requirement in Low-Level Code sorting (Descending).

TEST VARDIM ORDER

The content of the field is only applicable if **Skip Creation of Related Order** is set to .

In that case, this field determines if the VarDim Order of a Sales Line with **Replenishment Policy Order**, and for which no Related Order has been created yet, should be tested.

If that test fails, you will get an error message and the MRP Calculation will abort.

You can choose between the following three options:

No	No test of a VarDim Order will be executed upfront, but if an error occurs, only the VarDim Type for which a value is missing is mentioned in the error message.
Yes	The VarDim Order will be tested and the message for an error will give more information to find the actual issue (like Sale Order/Sales Line).
Printed	The VarDim Order will only be tested if No. Printed in the Sales Header > 0.

FILTER INITIATING ITEM

MRP All	The MRP Calculation will include all Items within the filters.
MRP only Make-to-Stock	Only initiating Items with Replenishment Policy = Inventory on the Item Card are included in the MRP Calculation
MRP only Make-to-Order	Only initiating Items with Replenishment Policy = Order on the Item Card are included in the MRP Calculation

NOTE

If you have set the **Skip Creation of Related Orders** to , it might be helpful to set **Filter Initiating Item** to *MRP only Make-to-Stock*.

ASSIGN ORDER TYPE FOR PURCHASE

If the MRP Calculation creates Purchase Requisitions or Purchase Orders, the **Order Type** will automatically be filled with the content of this field **Assign Order Type for Purchase**.

FASTTAB MRP ACTIONS

MRP Actions	
Setup Reschedule Dampeners	
Purchase Dampener Period	
Production Dampener Period	
Transfer Dampener Period	

DESCRIPTION OF THE FIELDS:

PURCHASE/PRODUCTION/TRANSFER DAMPENER PERIOD

In these fields, you can enter a Date Formula like *2D*, *1W*, etc.

Based on a calculated date for the demand, this dampener will add the demand to an already created Order if the requested date is within this Dampener Period.

This is especially important if the Parameter **Available Date is Exact Date** in the Production Setup has been set to *Yes*.

I.e., based on a Sales Order the MRP Calculation comes with a **Start Date** for a Production Order of *02/20/25* (February 20, 2025). For another Sales Line it would be *02/24/25* (February 24, 2025).

If **Available Date is Exact Date** is set to *Yes*, this would result in two Production Orders.

However, if the **Production Dampener Period** was set to *1W*, these two quantities would be summarized on the same Production Order with the **Start Date** *02/20/25*.

You can also think about filling these Dampeners in case you run the MRP Calculation several times after each other (i.e., with different filters or different MRP Setups):

In case you run the MRP Calculations several times, you might want to be able to add Lines to existing Purchase Orders, Production Orders, and/or Transfer Orders instead of deleting Orders and recreating them again with slightly different quantities.

Therefore, if you fill the Dampener the system will not suggest deleting and creating a new Order if it finds an existing Order in the dampener period BEFORE the wanted Receipt/End Date., but it will instead suggest an increase of the existing Order.

MRP LIMITATION

MRP Limitations is an extension to the **Posting** function (Carry Out Action Message) on the **MRP Actions**, which makes it possible to create **Production Collecting Orders** via the MRP Calculation and to create **Purchase Orders** in a more flexible way.

It has no influence on **Transfer Orders** that should be created during the MRP Calculation. They will always be created per **Transfer-From Code**, **Transfer-To Code**, and **In-Transit Code**

MRP Limitations

The MRP Limitations will be used when posting the MRP Actions (and the required Purchase-, Production- and/or Transfer Orders are created) and are only applicable for SKUs or Items with **Replenishment Policy** is *Inventory*.

You cannot select a specific MRP Limitation when posting. The posting of the MRP Actions will go through the different MRP Limitation Codes and create Production Collecting Orders and/or Purchase Requisitions/Orders according to the filters and the **Order per** fields of the MRP Limitations and the MRP Setup.

Therefore, it is particularly important that the content of every individual MRP Limitation Code is build up according to a hierarchy that makes sense.

If the **Replenishment Policy** of the SKUs or Items on the MRP Action Lines is *Order*, the posting will be executed according to the standard TRIMIT rules:

Purchase Requisitions/Orders will be created per Vendor, MRP Responsible, Location and Prod. Series. Production Orders will be created for all individual Items, and no Production Collecting Orders will be created.

Transfer Orders will simply be created per **Transfer from Code + Transfer to Code + Transfer in Transit Code** in the MRP Action Lines and will not be influenced by the MRP Limitations.

These fields are not shown in the Page of the **MRP Actions** (6037308), but are in the Table **MRP Action** (6037305)

NOTE

If a specific demand for an Item in a specific Location Code would not be in the filters of the MRP Limitations, the MRP Calculation will create Purchase Requisitions/Orders according to the standard routine (per Vendor, MRP Responsible, Location Code, Production Series) and only Production Orders (and no Production Collecting Orders).

LIMITATION TYPE: PRODUCTION COLLECTING ORDER

This **Type** makes it possible to create **Production Collecting Orders** when posting the MRP Actions for SKUs or Items with **Replenishment Policy** is *Inventory*.

The Production Collecting Lines created via the posting are not related to Sales Lines, and no records will be created in the **Prod. Collecting Relation** table.

If the **Replenishment Policy** is *Order*, the MRP Limitations will be disregarded when posting the MRP Action Lines.

Multiple MRP Limitation Codes can be set up in a hierarchy deciding how the Items must be assigned to the same Production Collecting Order depending on several **Filter** fields.

The direction of the search on the MRP Limitation Codes is the key from the table:

Type + Limitation Code.

Besides the Production Collecting Orders that will be created, also all the individual Production Orders will already be created as well for every Line in the Production Collecting Order.

If an MRP Action Line/Item is not found in any Filter combination of the MRP Limitation Codes, the posting of the Action Lines will be executed according to the standard TRIMIT code: No Production Collecting Order will be created; only the individual Production Orders.

LIMITATION TYPE: PURCHASE

This **Type** makes it possible to create Purchase Requisitions/Orders when posting the MRP Actions for SKUs or Items with **Replenishment Policy** is *Inventory* by combining specific Items on the same Purchase Requisition/Order.

Using the MRP Limitation Code makes it possible to overrule the TRIMIT standard creation of Purchase Orders via the MRP Calculation, which has forced creation of Orders (or Requisition) per Vendor, MRP Responsible (from the Item), Production Series (from the Sales Lines) and Location (from the Sales Lines and/or Component Lines).

If the **Replenishment Policy** is *Order*, the MRP Limitations will be disregarded when posting the MRP Action Lines.

Multiple MRP Limitation Codes can be set up in a hierarchy deciding how the Items must be assigned to the same Purchase Order depending on several **Filter** fields.

The direction of the search on the MRP Limitation Codes is the key from the table:

Type + Limitation Code.

If an MRP Action Line/Item is not found in any Filter combination of the MRP Limitation Codes, the Posting of the Action Lines will be done according to the standard TRIMIT code: Per Vendor, MRP Responsible, Production Series and Location.

You can find the **MRP Limitations** via **Search MRP Limitations** or in the Role Center **TRIMIT Production** under **MRP Setup**:

CRONUS MRP	< Production Orders	Capacity	Logistics	Product Design	Sales	Purchase	MRP Setup
MRP Batch Log	MRP Job Queue	MRP Setup List	MRP Limitations				

MRP Limitations															✓ Saved									
+ New Edit List Delete																								
Type T	Limitation Code T	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Location Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group A Filter	Item Statistics Group S Filter	Filter Item Category Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Production Series	Order per Master	Order per Locat...	Order per MRP Respons...	Order per via Dim Y-Axis	Order per via Dim X-Axis	Order per Group Master
→ Production Collecting Order	2200	PCO per 2200/Color	2200					0	0	0	0	0					☐	☐	☐	☐	☒	☐	☐	☐
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M33	PCO All Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	SHOE	PCO All Shoes						0	0	0	0	0		SHOES			☐	☒	☐	☒	☐	☐	☐	☐
Purchase	M20	Order for All Fabrics						0	910	0	0	0					☐	☐	☐	☒	☒	☐	☐	☐
Purchase	M21	Order for All Leathers						0	920	0	0	0					☐	☐	☐	☒	☒	☐	☐	☐

DESCRIPTION OF THE FIELDS:

TYPE

You need to choose which **Type of MRP Limitation Code** you want to enter.

You can choose between the following two options:

Production Collecting Order	This Type is applicable for MRP Action Lines with the Type Production Order and for which the Item has Replenishment Policy Inventory . In this case, Production Collecting Orders will be created based on the Filter fields and the Order per fields.
Purchase	This Type is applicable for MRP Action Lines with the Type Purchase Order and for which the Item has Replenishment Policy Inventory . In this case, Purchase Orders will be created based on the Filter fields and the Order per fields.

LIMITATION CODE

Code for this MRP Limitation Line

DESCRIPTION

Description for this MRP Limitation Code

Now you can enter the **Filter** fields and the **Order per** fields:

FILTER FIELDS

These **Filter** fields can be used to determine what can be combined on a separate Purchase Requisition/Order or Production Collecting Order.

If you do not set any **Filters** all Items will be combined on separate Purchase Requisitions/Orders or Production Collecting Orders according to the **Order per** Fields.

Filter Master No.	You can enter a Filter on the Masters that will be checked with the field Master No. in the MRP Action Line.
Filter Item No.	You can enter a Filter on the Items that will be checked with the field Item No. in the MRP Action Line.

Filter Group Master	You can choose one specific Group Master that will be checked with the field Group Master Code in the Item No. of the MRP Action Line.
Filter Vendor No.	You can enter one specific Vendor that will be checked with the field Replacement Buy-from Vendor No. (Temp) in the MRP Action Line.
Filter Location Code	You can enter a Filter on the Locations that will be checked with the field Assign Location Code in the MRP Action Line.
Filter Statistics Group (Design in demo data)	You can choose one specific Item Statistics Group that will be checked with the field Item Statistics Group in the Item of the MRP Action Line.
Filter Item Statistics Group 2 (Item Group in demo data)	You can choose one specific Item Statistics Group 2 that will be checked with the field Item Statistics Group 2 in the Item of the MRP Action Line.
Filter Item Statistics Group 3 (Gender in demo data)	You can choose one specific Item Statistics Group 3 that will be checked with the field Item Statistics Group 3 in the Item of the MRP Action Line.
Filter Item Statistics Group 4	You can choose one specific Item Statistics Group 4 that will be checked with the field Item Statistics Group 4 in the Item of the MRP Action Line.
Filter Item Statistics Group 5	You can choose one specific Item Statistics Group 5 that will be checked with the field Item Statistics Group 5 in the Item of the MRP Action Line.
Filter Item Category Code	You can choose one specific Item Category Code that will be checked with the field Item Category Code in the Item of the MRP Action Line.
Filter Global Dimension Code 1 (Brand Code in the demo data)	You can choose one specific Global Dimension Code 1 (Brand Code) that will be checked with the field Global Dimension Code 1 (Brand Code) in the Item of the MRP Action Line.
Filter Global Dimension Code 2 (Season Code in the demo data)	You can choose one specific Global Dimension Code 2 (Season Code) that will be checked with the field Global Dimension Code 2 (Season Code) in the Item of the MRP Action Line.
Filter Production Series	You can enter one specific Production Series that will be checked with the field Production Series in the MRP Action Line.

NOTE

The **Filter Global Dimension 1** and **Filter Global Dimension 2** are checked with the corresponding fields in the Item – even if you might have changed these Dimensions in individual Sales Lines!!!

ORDER PER

These **Order per** fields determine what can be combined on a single Purchase Requisition/Order or Production Collecting Order.

Not setting any **Order per** fields means:

For **Type Purchase** that Purchase Requisitions/Orders will be created per Vendor, MRP Responsible, Location Code and Production Series.

For **Type Production Collecting Order**, that all MRP Action Lines with **Type Production Order** will be on one big Production Collecting Order.

Order per Available Date	For every Replacement Expected Receipt Date in the MRP Action Lines with Type Purchase a separate Purchase Requisition/Order will be created. For every Replacement Available Date in the MRP Action Lines with Type Production Collecting Order a separate Production Collecting Order will be created.
Order per Production Series	For every Production Series in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created. For Type Purchase , the default is ☒ .
Order per Master	For every Master in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.
Order per Location	For every Location in the MRP Action Lines, a separate Purchase Requisition/Order or Production Collecting Order will be created. For Type Purchase , the default is ☒ .
Order per MRP Responsible	For every MRP Responsible in the Item of an MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created. For Type Purchase , the default is ☒ .
Order per VarDim Y-Axis	For every VarDim Y-Axis (i.e., Color) in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.
Order per VarDim X-Axis	For every VarDim X-Axis (i.e., Size) in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.
Order per Group Master	For every Group Master in the MRP Action Lines a separate Purchase Requisition/Order or Production Collecting Order will be created.

LOCATION

Location Card






BLUE · BLUE

Online Map
Resource Locations
Zones
Bins
Inventory Posting Setup
Warehouse Employees
Dimensions
More options

General

Code
BLUE

Name
BLUE

Use As In-Transit
☐

MRP

MRP Run Priority
0

Finish Production Order by T...
Setup

If you have SKU Cards with **Replenishment System Transfer**, the MRP Calculation can create Transfer Orders, but also create Purchase Requisitions/-Orders or Production Orders for the **Transfer-From Location Codes** of these Transfers.

In that case, you need to fill the **MRP Run Priority** in the Locations involved to make sure that first the demand on the **Transfer-To Location Codes** is calculated before the demand on the **Transfer-From Location Codes**.

The **Transfer-From Location Codes** should have a higher number (lower priority) filled as the **Transfer-To Location Codes** (higher priority).

I.e., if **SHOP1** and **SHOP2** are transferred from **CW** to fulfill their demand, you could set it up as follows:

- SHOP1** **MRP Run Priority 1**
- SHOP2** **MRP Run Priority 1**
- CW** **MRP Run Priority 5**

RUNNING MRP CALCULATION

Via **Search:**

Tell me what you want to do

MRP

On current page (Small Business)

Go to Pages and Tasks

Show less (3)

> MRP by Item	Tasks
> MRP Actions	Tasks
> MRP Job Queue	Administration
> MRP Setup List	Administration
> MRP Limitations	Administration
> MRP by Sales Line	Tasks
> Order Planning	Tasks
> MRP by Production Order	Tasks
> Planning Worksheets	Tasks
> Requisition Worksheets	Tasks
> MRP by Production Collecting Order	Tasks
> Requisition Worksheet Templates	Administration

In the Role Center **TRIMIT Production** via **MRP**:

CRONUS MRP

< Production Orders Capacity Logistics Product Design Sales Purchase MRP Setup Posted Documents

Production Orders Production Collecting Orders Work Centers Bottleneck Load Items Masters

Headline

Hi!

Activities

Actions

+ New Production Order > MRP > Calculation

+ New Actions > Archiving

+ New By Items Task > Find

By Sales Lines

By Production Orders

By Production Collecting Orders

BATCH LOG

To ensure that only one person at a time can execute an MRP Calculation a **Batch Log** will be created (Table **6036524 Batch Log**)

If a Batch Log **Entry No.** still has field **In Process** set to Yes, the execution of a New MRP Calculation is not possible and an error will occur.

Entry No.	User Id	Code	Parameter 1	Parameter 2	Parameter 3	Parameter 4	Parameter 5	In Process	Start Date/Time	End Date/Time	Duration
5	ADMIN	MRP	TRANSFER	Report MRP by Item	TRANSFER	Type: Item	Item Type: Finished Goods..Raw Materials, Mast...	☐	8/13/2024 2:45 P...	8/13/2024 2:46 P...	7 sec
4	ADMIN	MRP	DEFAULT	Report MRP by Item	NET FASHION	Type: Item	Item Type: Finished Goods..Raw Materials, Mast...	☐	8/13/2024 2:36 P...	8/13/2024 2:36 P...	211
3	ADMIN	MRP	PCO	Report MRP by Production Collecting...	NET FASHION	Type: Item	Document No.: PCOB0002	☐	8/13/2024 2:35 P...	8/13/2024 2:35 P...	456
2	ADMIN	MRP	PO	Report MRP by Production Order	NET FASHION	Type: Item	No.: PIW001	☐	8/13/2024 2:35 P...	8/13/2024 2:35 P...	179
1	ADMIN	MRP	SALES	Report MRP by Sales Line	NET FASHION	Document Type: Order Invoice Blanket Order, Docume...		☐	8/13/2024 2:30 P...	8/13/2024 2:31 P...	22 si

If an execution of a MRP Calculation has been interrupted with an error a RESET of the Batch Log Entry No. has to be done via click **Reset in Process**

NOTE

You should only RESET a Batch Log Entry No. that has a checkmark in **In Process** if you are the **User Id** for this Entry or if you know what has happened, otherwise you might interrupt the MRP Calculation from another user.

You can see the **Batch Log** in several places:

Via **Search Batch Log**.

In the **MRP Actions**, click **Related**, click **Batch Log**

MRP Actions

Journal Batch Name: SALES

Filter Posted: All

Filter Type: All

Run MRP: By Sales Lines

MRP Setup: NET FASHION

Manage Run MRP Post Current Line MRP Setup Item Master Inventory Profile Actions Related Automate

Low-Level Code	Type	Production Series	Item No.	Item Description	Item Description 2
1	Production...		21002046	Isla Trousers	Black/Grey,46
1	Production...		21002007	Lily Blouse	Royal Blue,3XL
1	Production...		21003001	Lily Blouse	Yellow,XS
1	Production...		21003002	Lily Blouse	Yellow,S
1	Production...		21003003	Lily Blouse	Yellow,M
1	Production...		21003004	Lily Blouse	Yellow,L
1	Production...		21003005	Lily Blouse	Yellow,XL

In the **MRP Action Journal Batch**, click **Related**, click **Function**, click **Batch Log**.

MRP Action Journal Batch

Batch Name: DEFAULT

Batch Description: Default MRP Action Batch

Job: JOB

PCO: MRP by Production Collection Orders

PO: MRP by Production Orders

SALES: MRP by Sales Lines

SHOEPROD: MRP Setup SHOEPROD

TRANSFER: MRP for Transfers to own Shops

MRP Setup: NET FASHION

Run MRP By: By Sales Line

Clear Posted by Recalculation: ☒

Related Function Batch Log

THE MRP CALCULATION HAS 5 MAIN ENTRANCES

Regardless which of the five you choose, the MRP Calculation will **first** create or delete/regenerate **Related Orders** for all the filtered Sales Lines with **Replenishment Policy Order**.

Second, it will calculate the demands for the Items (*By Items*), Items on Sales Lines (*By Sales Lines*), Items on Production Orders (*By Production Orders*) or Items on Production Collection Order Lines (*By Production Collection Order*) to create (or propose by using the MRP Actions) the new Orders.

BY ITEMS

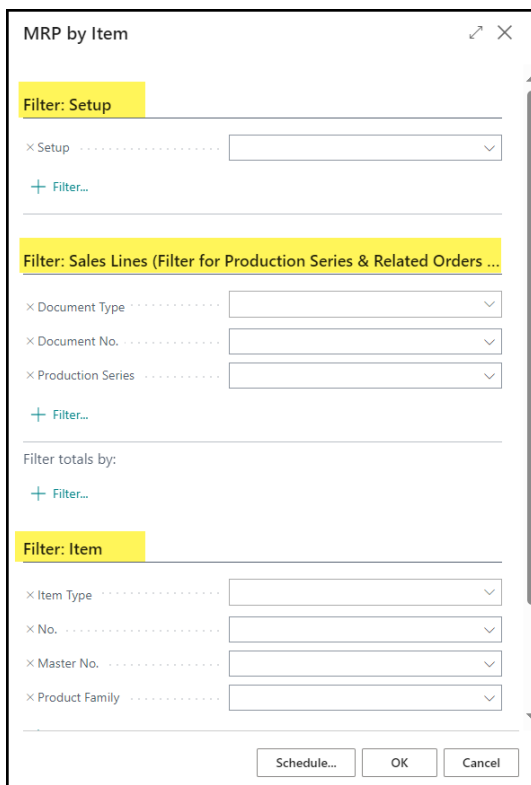
Uses **Sales Line** table filters to determine for which Sales Lines with **Replenishment Policy Order** a Related Order should be created or deleted/regenerated. This is only used if **Skip Creation of Related Order** in chosen MRP Setup is set to .

Uses **Item** table filters to determine for which Items the MRP Calculation should take place.

These filters have however no effect on the creation of Related Orders!

The BOM is unfolded for all the Items involved, which means that all Items **Include in MRP** set to  on underlying levels are also included in the MRP Calculation.

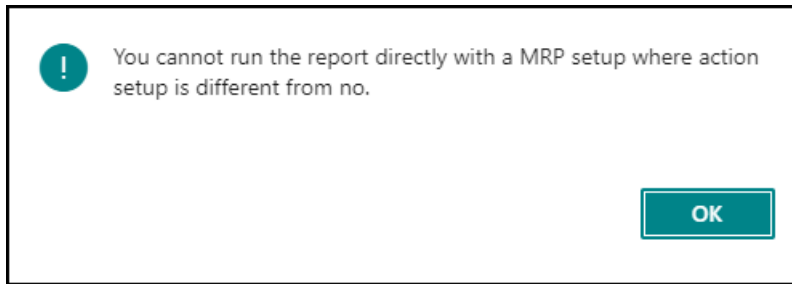
The outcome will right away be the Purchase Requisitions/Orders, Production Orders or Transfer Orders. However, you cannot influence how the Items will be combined on the Orders, and no Production Collecting Orders will be created, only single Production Orders: **no influence of the MRP Limitations!**



On the FastTab **Setup**, you can set filters for all the fields of the [MRP Setups](#).

It is mandatory to enter a **Setup**.

You can only choose an MRP Setup with **Action Setup** is *No*, otherwise, you will get an error message when the MRP Calculation starts:



On the FastTab **Sales Lines (Filters for Production Series & Related Orders Creation/Regeneration)**, you can set filters for all the fields of the Sales Lines for the creation or deletion/regeneration of the Related Orders. This is only used if **Skip Creation of Related Order** in chosen MRP Setup is set to ☐.

On the FastTab **Items**, you can set the filters for all the fields of the Items; these filters can really reduce the time of the MRP Calculation because for these Items he will run the total demand calculation. You need to keep in mind, that these filters are only applicable for Masters/Items with **Replenishment Policy** is *Inventory*, and only for the Masters/Items on the Top-Level – so not for Components in the BOM's of these Masters/Items on the Top-Level.

You can get Purchase Requisitions/Orders, Production Orders or Transfer Orders for Items that do not fit your Item filters: The filters only apply to the Top-Level.

Bill of Materials of Items within the filters will be unfolded, and the MRP Calculations will calculate the demand for these Component Items as well if **Include in MRP** set to ☒.

You could prevent this by using the **To Management Level** in the **MRP Setup**. This also implies that you have setup several **Management Levels** and have entered them in the Master Cards (FastTab **Misc.**)

If the field **Run Multiple Locations** in the **MRP Setup** is set to ☒, the MRP Calculation will calculate the demand per Location and therefore create separate Orders (at least) per Location. So, not separate Order Lines in the same Order, but separate Orders!

NOTE

A filter on the FastTab **Sales Lines** is only meant for the creation/regeneration of Related Orders.

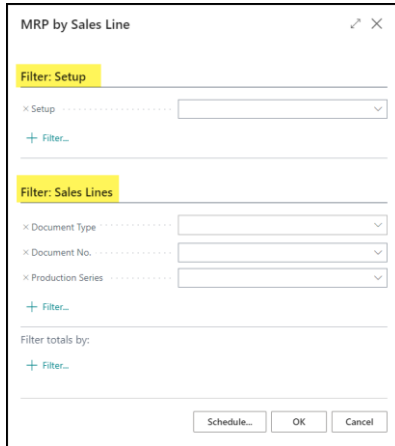
For the MRP Calculation itself, it will still try to create temporary BOMs for all (configurable) Items within the filters of FastTab **Items**. In case these are configurable Items, errors might occur, because the system is missing the VarDim Order information for these Items.

BY SALES LINES

Uses **Sales Lines** table filters to determine for which Items the MRP Calculation should take place.

In this case, it also filters the Sales Lines for which Related Order will be created or deleted/regenerated – but only a filter on the **Document Type** will be regarded in this situation – so not a filter on the **No**.

The BOM is unfolded for the Inventory Initiated Items and Related Orders can be created for Order Initiated Items, which means that also all Items marked for MRP on underlying levels are included in the MRP Calculation. After the Calculation Buffer is created, the Items are calculated in Low-Level Code sorting (highest level first).



It is mandatory to choose an MRP **Setup** with the field **Action Setup** set to *No*.

Outcome is comparable with the functionality of **MRP By Items** (so also **No influence of the MRP Limitations**); the starting point of the calculation is however completely different.

The system will however not only calculate the sold quantities based on these filtered Sales Lines!

The filters on the Sales Lines only determine for which Items the MRP Calculation should take place – as Items of the highest level, but it is not a filter to only calculate the demand for those specific Sales Orders. As mentioned in [By Items](#) you can also get Orders based on the Components of the BOMs of these Items.

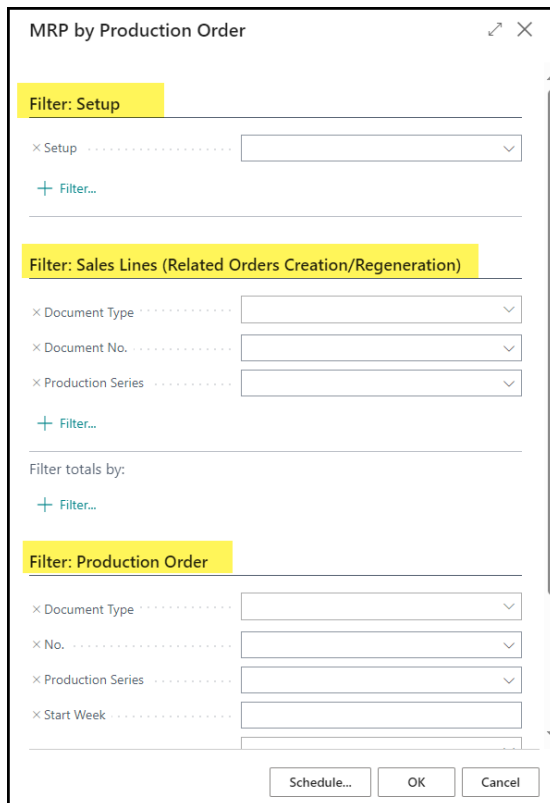
BY PRODUCTION ORDERS

Uses **Sales Line** table filters to determine for which Sales Lines with **Replenishment Policy Order** a Related Order should be created or deleted/regenerated. This is only used if **Skip Creation of Related Order** in chosen MRP Setup is set to .

Uses **Production Order Header** table filters to determine for which Items the MRP Calculation should take place.

The BOM is unfolded for the Inventory Initiated Items and Related Orders can be created for Order Initiated Items, which means that all Items with **Include in MRP** set to  on underlying levels are also included in the MRP Calculation.

After the Calculation Buffer is created, the Items are calculated in Low-Level Code sorting (highest level first).



It is mandatory to choose an MRP **Setup** with the field **Action Setup** set to *No*.

Outcome is comparable with the functionality of **MRP By Items** (so also **No influence of the MRP Limitations**); the starting point of the calculation is however completely different.

The filters on the Production Order only determine for which Items the MRP Calculation should take place – as Items of the highest level, but it is not a filter to only calculate the demand for those specific Production Orders.

As mentioned in [By Items](#) you can also get Orders based on the Components of the BOMs of these Items.

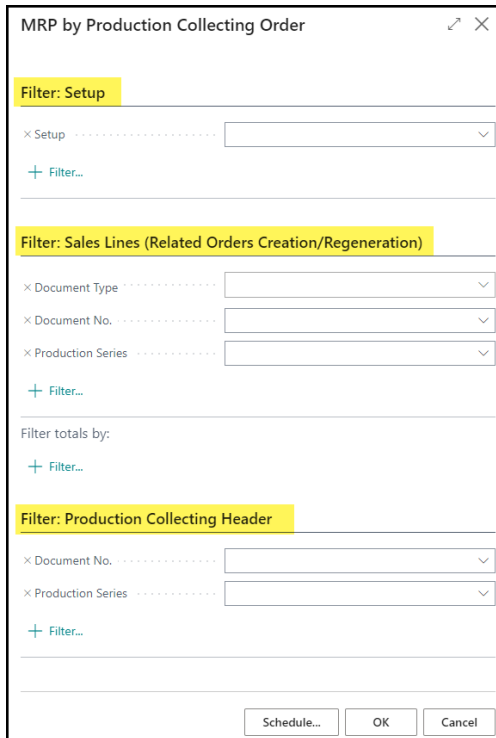
BY PRODUCTION COLLECTING ORDERS

Uses **Sales Line** table filters to determine for which Sales Lines with **Replenishment Policy Order** a Related Order should be created or deleted/regenerated. This is only used if **Skip Creation of Related Order** in chosen MRP Setup is set to .

Uses **Production Collecting Order Header** table filters to determine for which Items the MRP Calculation should take place.

The BOM is unfolded for the Inventory Initiated Items and Related Orders can be created for Order Initiated Items, which means that all Items marked for MRP on underlying levels are also included in the MRP Calculation.

After the Calculation Buffer is created, the Items are calculated in Low-Level Code order (highest level first).



It is mandatory to choose an MRP **Setup** with the field **Action Setup** set to *No*.

Outcome is comparable with the functionality of **MRP By Items** (so also **No influence of the MRP Limitations**); the starting point of the calculation is however completely different.

The filters on the Production Collecting Header only determine for which Items the MRP Calculation should take place – as Items of the highest level, but it is not a filter to only calculate the demand for those specific Production Collecting Orders.

MRP ACTIONS

MRP Actions is an optional Worksheet from where you can run the above four mentioned MRP Calculation methods. The created Suggestions/Quotes or Orders are presented in **Action Lines** that either can be auto executed (based on the field **Action Posting** in the MRP Setup) in connection with the MRP Calculation or can manually be executed after revision.

MRP Actions furthermore gives you the option to recalculate already existing Purchase-/Production-/Transfer Orders and will take the **MRP Limitations** into consideration.

See [Running the MRP Using the Action Lines \(MRP Actions\)](#)

RUNNING THE MRP USING THE ACTION LINES (MRP ACTIONS)

MRP ACTION JOURNAL BATCH

In the MRP Actions, you can choose a **Journal Batch Name** which can fill already some fields for the MRP Actions Calculation. Therefore, you can setup several **MRP Action Journal Batches**.

MRP Action Journal Batch									
MRP Action Journal Batch + New Edit List									
Batch Name ↑	Batch Description	MRP Setup	Run MRP By	Clear Posted by Recalculation	Creation Date	Modified Date	Recurrence	Next Run	
→ DEFAULT	Default MRP Action Batch	NET FASHION	By Item	☒	8/6/2024				
JOB	Default Job Queue Batch	NET FASHION	By Sales Line	☒	8/6/2024		1D	1/23/2020	
PCO	MRP by Production Collection Orders	NET FASHION	By Production Collecting Order	☒	8/6/2024				
PO	MRP by Production Orders	NET FASHION	By Production Order	☒	8/6/2024				
SALES	MRP by Sales Lines	NET FASHION	By Sales Line	☒	8/6/2024				
SHOEPROD	MRP Setup SHOEPROD	SHOEPROD	By Sales Line	☒	8/6/2024				
TRANSFER	MRP for Transfers to own Shops	TRANSFER	By Item	☒	8/6/2024				

DESCRIPTION OF THE FIELDS:

BATCH NAME

The MRP Action Journal **Batch Name** is the Key field.

DESCRIPTION

Your detailed **Description** of the actual MRP Action **Journal Batch Name**

MRP SETUP

Default choice of the **MRP Setup** for the actual MRP Action **Journal Batch Name**.

The **MRP Setup** can be chosen from the **MRP Setup List**.

This field will be updated automatically based on the chosen **MRP Setup** while running the MRP Calculation with actual MRP Action Journal Batch.

RUN MRP BY

Default choice of MRP Calculation Report to run for actual MRP Action Journal Batch Name

You can choose between the following four options:

- By Items
- By Sales Line
- By Production Orders
- By Production Collecting Order

This field will be updated automatically based on the chosen **Run MRP** while running the MRP Calculation via the MRP Actions with actual MRP Action Journal Batch.

CLEAR POSTED BY RECALCULATION

If this field is set to ☒ all the MRP Action Lines that have been posted for the actual MRP Action Journal Batch Name are deleted each time an MRP Calculation is executed again.

If this field is set to ☐ the MRP Action Lines with **Posted** is Yes for the actual MRP Action Journal Batch Name will be maintained in the MRP Action Lines table, even if you execute an MRP Calculation again.

NOTE

Initial value is ☒.

CREATION DATE

This field will automatically be filled with the actual (Windows) Date the moment you create an MRP Action Journal Batch.

MODIFIED DATE

This field will automatically be filled with the actual (Windows) Date the moment you change an MRP Action Journal Batch (directly or indirectly).

RECURRENCE

You can enter a Date Formula for the recurrence period regarding the Job Queue for the MRP Calculation.

NEXT RUN

Regarding running the MRP Calculation via the Job Queue, you need to determine on which Date the **Next Run** (first Run) should take place.

RELATED/FUNCTION

MRP Action Journal Batch							
Batch Name ↑	Batch Description	MRP Setup		Clear Posted by Recalculation	Creation Date	Modified Date	
→ DEFAULT	Default MRP Action Batch	NET FASHION	Delete MRP Setup Related Fewer options Show as menu	Function	MRP Action Filter		
JOB	Default Job Queue Batch	NET FASHION					
PCO	MRP by Production Collection Orders	NET FASHION					
PO	MRP by Production Orders	NET FASHION					
SALES	MRP by Sales Lines	NET FASHION	By Sales Line		8/6/2024		
SHOEPROD	MRP Setup SHOEPROD	SHOEPROD	By Sales Line		8/6/2024		
TRANSFER	MRP for Transfers to own Shops	TRANSFER	By Item		8/6/2024		

MRP SETUP

This will show the Card of the **MRP Setup** of the actual MRP Action Journal Batch.

MRP ACTION FILTER

Via **MRP Action Filter**, you can see the last Filter you used when running the **MRP Calculation** via the **MRP Actions** with this MRP Action Journal Batch. I.e.:

MRP Action Filter
✓ Saved

Name: DEFAULT
Run MRP By: By Item

Manage
Create/Modify Filter
Automate
Fewer options

Table Name ↑	Field Name	Filter
Item	trm Master No.	M2010

You are also able to enter special Filters upfront via click **Create/Modify Filters**.

MRP Action Filter Create

Filter: Item >

0 filters set

Filter: Sales Line >

0 filters set

Filter: Production Header >

0 filters set

Filter: Production Collecting Header >

0 filters set

OK

Cancel

BATCH LOG

This will show the **Batch Log** of all the runs of the MRP Calculation – regardless if run via the MRP Actions or directly via one of the four Reports, or via a Job Queue.

Parameter 1 will be the chosen Journal Batch Name that has been used.

Batch Log

+ New

Edit List

Delete

Reset In Process

More options

✓ Saved

Entry No.	User Id	Code	Parameter 1	Parameter 2	Parameter 3	Parameter 4	Parameter 5	In Process	Start Date/Time	End Date/Time	Durat
5	ADMIN	MRP	TRANSFER	Report MRP by Item	TRANSFER	Type: Item	Item Type: Finished Goods..Raw Materials, Mast...	☐	8/13/2024 2:45 P...	8/13/2024 2:46 P...	7 se
4	ADMIN	MRP	DEFAULT	Report MRP by Item	NET FASHION	Type: Item	Item Type: Finished Goods..Raw Materials, Mast...	☐	8/13/2024 2:36 P...	8/13/2024 2:36 P...	211
3	ADMIN	MRP	PCO	Report MRP by Production Collecting...	NET FASHION	Type: Item	Document No.: PCOB0002	☐	8/13/2024 2:35 P...	8/13/2024 2:35 P...	456
2	ADMIN	MRP	PO	Report MRP by Production Order	NET FASHION	Type: Item	No.: PIW001	☐	8/13/2024 2:35 P...	8/13/2024 2:35 P...	179
→ 1	ADMIN	MRP	SALES	Report MRP by Sales Line	NET FASHION	Document Type: Order Invoice Blanket Order, Docume...		☐	8/13/2024 2:30 P...	8/13/2024 2:31 P...	22 s

MRP ACTIONS HEADER

MRP Actions

✓ Saved

Journal Batch Name

DEFAULT

Filter Posted

All

Filter Type

All

Run MRP

By Items

MRP Setup

NET FASHION

Manage

Run MRP

Post Current Line

MRP Setup

Item

Master

Inventory Profile

Actions

Related

Automate

DESCRIPTION OF THE FIELDS:

JOURNAL BATCH NAME

This field shows the [Journal Batch Name](#) of the MRP Actions.

If you want to select a new Journal Batch Name, click **Look up value** in the field to see the available Journal Batches or to create a new Journal Batch Name.

By opening the page **MRP Actions**, a default **MRP Action Journal Batch** called *STANDARD* is automatically created – if there is no one created already, otherwise it will show the first **MRP Action Journal Batch** or the last chosen **Journal Batch Name**.

When choosing the **MRP Setup**, the field **MRP Action Journal Batch Name** in the MRP Setup will be updated with the **Journal Batch Name** after you run the MRP Calculation.

NOTE

No matter if a MRP Calculation should be run directly or by using the MRP Actions, a **MRP Action Journal Batch** can be created for every MRP Setup no matter the content of the field **Action Setup**.

This makes it possible to use the filter functionality on the **MRP Actions** and makes it possible to execute a MRP Calculation directly via the **MRP Job Queue** functionality.

We recommend to have different Batch Names for the Batches used in the MRP Actions and the Batches used in the MRP Job Queues.

NOTE

After running the MRP Calculation the fields in the **MRP Action Journal Batch** will be updated with the choices you made in the MRP Actions. This will also overwrite the Filters you might have set upfront in the **MRP Action Journal Batch**.

FILTER POSTED

To improve overview of Actions Lines you can set a filter on the field **Posted**. The filter works together with the **Filter Type**.

You can choose between the following three options:

All	All Action Lines are visible.
Not Posted	Only Action Lines with Posted is ☐ are visible.
Posted	Only Action Lines with Posted is ☒ are visible.

FILTER TYPE

To improve overview of Actions Lines you can set a filter on the field **Type**. The filter works together with the **Filter Posted**.

You can choose between the following three options:

All	All Action Lines are visible.
Production Orders	Only Action Lines with Type is <i>Production Order</i> are visible.
Purchase Orders	Only Action Lines with Type is <i>Purchase Order</i> are visible.
Transfer Orders	Only Action Lines with Type is <i>Transfer Order</i> are visible.

RUN MRP

Initial value is automatically inserted from the **MRP Action Journal Batch**.

Default choice of MRP report to run for MRP Calculation.

You can choose between the following four options:

- By Items
- By Sales Line
- By Production Orders
- By Prod. Collecting Order

Changing the field automatically changes the field **Run MRP by** of the **MRP Action Journal Batch**.

MRP SETUP

Initial value is automatically inserted from the **MRP Action Journal Batch**.

The **MRP Setup** can be chosen from the **MRP Setup List**.

Changing the field automatically changes the field **MRP Setup** of the **MRP Action Journal Batch**.

NOTE

If an **MRP Setup** is chosen, with the field **Action Setup** is *No*, no Action Lines will be created, but the MRP Calculation will immediately create the Purchase Quotes/Order, Production Orders, Production Collecting Orders, and/or Transfer Orders!

In that case, you will get a warning, which you need to confirm:



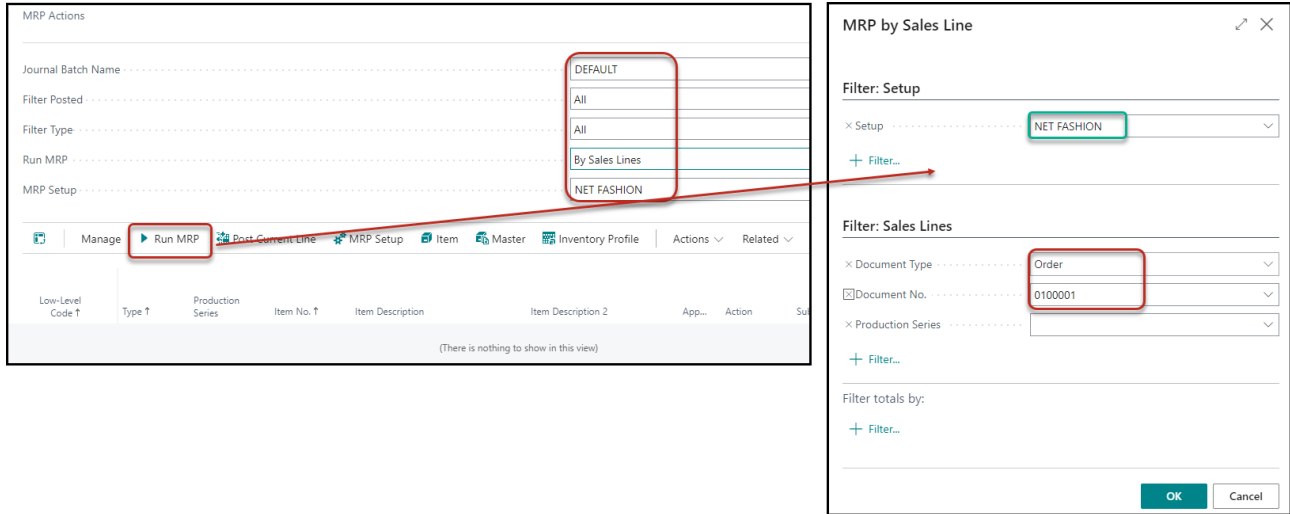
Field Action Setup in MRP Setup is set to No. Orders will be created directly and no Action Lines will be created!. Do you want to proceed?

Yes

No

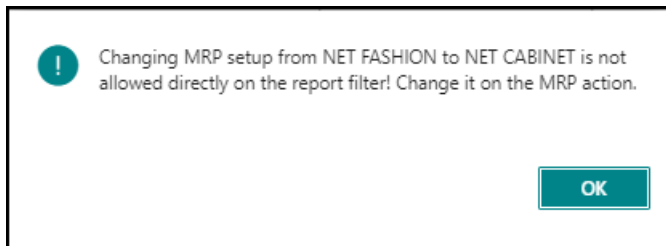
MRP ACTION LINES

If you run the **MRP Calculation By Sales Lines**, with a filter on the **Document No. 0100001** (extra added in [Extra Data](#))



The screenshot shows two windows. The 'MRP Actions' window has a 'Run MRP' button highlighted with a red box. A dropdown menu is open, showing 'By Sales Lines' selected. The 'MRP by Sales Line' window shows 'Setup' as 'NET FASHION' and 'Document No.' as '0100001'. A red arrow points from the 'Run MRP' button to the 'MRP by Sales Line' window.

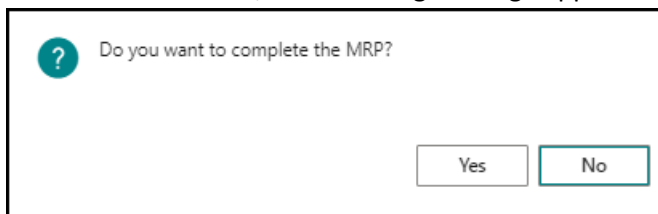
The **Setup** in the report based on the **Run MRP** in the MRP Actions will be filled based on the **MRP Setup** of the MRP Actions and you are not allowed to change it in the Request page of the report directly; this will even result in an error message. I.e.:



The error message dialog states: "Changing MRP setup from NET FASHION to NET CABINET is not allowed directly on the report filter! Change it on the MRP action." with an 'OK' button.

Click **OK**, will then abort the report and no MRP Calculation will take place.

If that is not the case, the following message appears:



The confirmation dialog asks: "Do you want to complete the MRP?" with 'Yes' and 'No' buttons.

Click **Yes**.

The **MRP Action Lines** will now look as follows:

A			B			C			D			E			F			G			H			I			J			K			L			M			N			O			P			Q			R			S			T			U			V			W			X			Y			Z			AA			AB			AC			AD			AE			AF			AG			AH			AI			AJ			AK			AL			AM			AN			AO			AP			AQ			AR			AS			AT			AU			AV			AW			AX			AY			AZ			BA			BB			BC			BD			BE			BF			BG			BH			BI			BJ			BK			BL			BM			BN			BO			BP			BQ			BR			BS			BT			BU			BV			BW			BX			BY			BZ			CA			CB			CC			CD			CE			CF			CG			CH			CI			CJ			CK			CL			CM			CN			CO			CP			CQ			CR			CS			CT			CU			CV			CW			CX			CY			CZ			DA			DB			DC			DD			DE			DF			DG			DH			DI			DJ			DK			DL			DM			DN			DO			DP			DQ			DR			DS			DT			DU			DV			DW			DX			DY			DZ			EA			EB			EC			ED			EE			EF			EG			EH			EI			EJ			EK			EL			EM			EN			EO			EP			EQ			ER			ES			ET			EU			EV			EW			EX			EY			EZ			FA			FB			FC			FD			FE			FF			FG			FH			FI			FJ			FK			FL			FM			FN			FO			FP			FQ			FR			FS			FT			FU			FV			FW			FX			FY			FZ			GA			GB			GC			GD			GE			GF			GG			GH			GI			GJ			GK			GL			GM			GN			GO			GP			GQ			GR			GS			GT			GU			GV			GW			GX			GY			GZ			HA			HB			HC			HD			HE			HF			HG			HH			HI			HJ			HK			HL			HM			HN			HO			HP			HQ			HR			HS			HT			HU			HV			HW			HX			HY			HZ			IA			IB			IC			ID			IE			IF			IG			IH			II			IJ			IK			IL			IM			IN			IO			IP			IQ			IR			IS			IT			IU			IV			IW			IX			IY			IZ			JA			JB			JC			JD			JE			JF			JG			JH			JI			JJ			JK			JL			JM			JN			JO			JP			JQ			JR			JS			JT			JU			JV			JW			JX			JY			JZ			KA			KB			KC			KD			KE			KF			KG			KH			KI			KJ			KL			KM			KN			KO			KP			KQ			KR			KS			KT			KU			KV			KW			KX			KY			KZ			LA			LB			LC			LD			LE			LF			LG			LH			LI			LJ			LK			LM			LN			LO			LP			LQ			LR			LS			LT			LU			LV			LW			LX			LY			LZ			MA			MB			MC			MD			ME			MF			MG			MH			MI			MJ			MK			ML			MN			MO			MP			MQ			MR			MS			MT			MU			MV			MW			MX			MY			MZ			NA			NB			NC			ND			NE			NF			NG			NH			NI			NJ			NK			NL			NM			NO			NP			NQ			NR			NS			NT			NU			NV			NW			NX			NY			NZ			OA			OB			OC			OD			OE			OF			OG			OH			OI			OJ			OK			OL			OM			ON			OO			OP			OQ			OR			OS			OT			OU			OV			OW			OX			OY			OZ			PA			PB			PC			PD			PE			PF			PG			PH			PI			PJ			PK			PL			PM			PN			PO			PP			PQ			PR			PS			PT			PU			PV			PW			PX			PY			PZ			QA			QB			QC			QD			QE			QF			QG			QH			QI			QJ			QK			QL			QM			QN			QO			QP			QQ			QR			QS			QT			QU			QV			QW			QX			QY			QZ			RA			RB			RC			RD			RE			RF			RG			RH			RI			RJ			RK			RL			RM			RN			RO			RP			RQ			RR			RS			RT			RU			RV			RW			RX			RY			RZ			SA			SB			SC			SD			SE			SF			SG			SH			SI			SJ			SK			SL			SM			SN			SO			SP			SQ			SR			SS			ST			SU			SV			SW			SX			SY			SZ			TA			TB			TC			TD			TE			TF			TG			TH			TI			TJ			TK			TL			TM			TN			TO			TP			TQ			TR			TS			TT			TU			TV			TW			TX			TY			TZ			UA			UB			UC			UD			UE			UF			UG			UH			UI			UJ			UK			UL			UM			UN			UO			UP			UQ			UR			US			UT			UU			UV			UW			UX			UY			UZ			VA			VB			VC			VD			VE			VF			VG			VH			VI			VJ			VK			VL			VM			VN			VO			VP			VQ			VR			VS			VT			VU			VV			VW			VX			VY			VZ			WA			WB			WC			WD			WE			WF			WG			WH			WI			WJ			WK			WL			WM			WN			WO			WP			WQ			WR			WS			WT			WU			WV			WW			WX			WY			WZ			XA			XB			XC			XD			XE			XF			XG			XH			XI			XJ			XK			XL			XM			XN			XO			XP			XQ			XR			XS			XT			XU			XV			XW			XX			XY			XZ			YA			YB			YC			YD			YE			YF			YG			YH			YI			YJ			YK			YL			YM			YN			YO			YP			YQ			YR			YS			YT			YU			YV			YW			YX			YY			YZ			ZA			ZB			ZC			ZD			ZE			ZF			ZG			ZH			ZI			ZJ			ZK			ZL			ZM			ZN			ZO			ZP			ZQ			ZR			ZS			ZT			ZU			ZV			ZW			ZX			ZY			ZZ		
Loc-Level	Case #	Task #	Item Name	Item Description	Apprentice	Calc. Base	Est. Price	Est. Quantity	Replacement Quantity	Difference	Calculated Quantity	Item Name	Unit of Measure	Existing Order No.	Replacement Order No.	Assign Location Code	Replacement Buy Item	Replacement Item No.	Replacement Quantity	Replacement Receipt Date	Replacement Available Date	Replacement Order Date	Replacement Order Date	Replacement Order Date	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing Production Order Type	Replacement Production Order Type	Existing 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DESCRIPTION OF SOME FIELDS:

LOW-LEVEL CODE

During the MRP Calculation, the Lowest Management Level for the Item is found to secure that all Levels above are calculated before calculating the specific Item. The Integer value in the field corresponds to the Low-Level Code found in the MRP Calculation.

If manual changes of Quantities have to be done on the Action Lines it is recommended to start with the highest **Low-Level Code** (1= Top-Level), to ensure that changes in Quantities on other Items related to the specific Item is monitored on the MRP Action Lines.

TYPE

Production Order	The Action Line is related to an existing or to be created <i>Production Order</i>
Purchase Order	The Action Line is related to an existing or to be created <i>Purchase Order</i>
Transfer Order	The Action Line is related to an existing or to be created <i>Transfer Order</i>

NOTE

Based on the **MRP Limitations**, the **Type** *Production Order* can also result in *Production Collecting Orders* and *Production Orders*.

APPROVE

☐	When posting this Action Line will be skipped and no Action will be carried out
☒	When posting this Action Line, the value of the field Action will be carried out

ACTION

Action to be carried out when posting the MRP Action Line. The field **Approve** must be ☒ to carry out the **Action**. The MRP Calculation comes with a proposal for the Action. You can however change it.

You can choose between the following five options:

None	Posting is done without any Actions: Nothing will happen.
New Order	A new Order will be created with the Replacement Quantity
Increase Order	Order will be increased to the Replacement Quantity

	How to increase, can be further specified in the field Sub-Action .
Reduce Order	The Existing Order No. will be reduced to the Replacement Quantity
Delete Order	The Existing Order No. will be deleted

NOTE

Order No. in the above options can be interpreted as a Production Order, but also as a Purchase Line, Transfer Line, or a Production Collecting Order Line + Production Order.

SUB-ACTION

The **Sub-Action** is only applicable in connection with **Action Increase Order**

The MRP Calculation comes with a proposal for the **Sub-Action**. You can however change it.

You can choose between the following three options:

<empty>	The Existing Order No. will be increased to the Replacement Quantity
Difference on New Order	A new Order with the Quantity in the field Difference will be created
Difference on New Line of Same Order	A new Order Line on the Existing Order No. with the quantity in the field Difference will be created. Note: This option is only valid on Purchase Orders

CALCULATION BASIS CHANGED

The field is automatically set to ☒ if a change or **Replacement Quantity** on another Action Line has influenced the basis for the Calculation of the actual Action Line.

To get the changed quantity a recalculation must be executed.

NOTE

The criteria for the calculation can be changed. For instance, if the initial calculation was based on **Sales Lines**, and a **Replacement Quantity** was changed on the Action Line for creating a Production Order, a recalculation on the same criteria as the initial MRP Calculation will result in a suggestion to change the Production Order that was Increased manually. In this specific scenario, the next MRP Calculation should be based on Production Orders.

POSTED

☐	The Action Line has not been posted and can still be modified.
☒	The Action Line has been posted and cannot be modified anymore.

EXISTING QUANTITY

Quantity on an existing Order found in the Calculation Buffer

REPLACEMENT QUANTITY

Replacement Quantity represents the suggested Quantity based on the MRP Calculation, but you can change this Quantity.

If the **Replacement Quantity** is manually changed and the Item is a Production Item, the Components of the BOM are recalculated as well. If Components from the BOM are existing on other Actions Lines for the same actual Journal Batch, the field **Calculation Basis Changed** of those Action Lines is set to ☒.

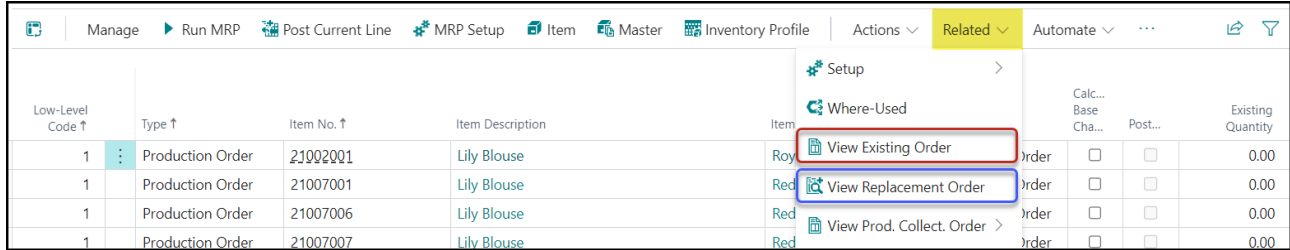
DIFFERENCE

Difference between **Replacement Quantity** and **Existing Quantity**.

EXISTING ORDER NO.

If an existing Order is found in the Calculation Buffer, the actual Order number is shown here.

You can see the details of this Order by double-click on the field **Existing Order No.** (or click **Related, View Existing Order**). This will open the Card of the existing Order.



Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item	Calc... Base Cha...	Post...	Existing Quantity
1	Production Order	21002001	Lily Blouse	Roy	Order	☐	0.00
1	Production Order	21007001	Lily Blouse	Red	Order	☐	0.00
1	Production Order	21007006	Lily Blouse	Red	Order	☐	0.00
1	Production Order	21007007	Lily Blouse	Red	Order	☐	0.00

REPLACEMENT ORDER NO.

After posting the MRP Actions, this field will show the new Order that has been created or changed.

You can see the details of this Order by double-click on **Replacement Order No.** (or click **Related, View Replacement Order**).

This will open the Card of the new created/changed Order.

NOTE

The **Existing Order No.** and the **Replacement Order No.** can be Purchase Requisitions (Quotes), Purchase Orders, Production Orders with Status *Suggestion* or *Order*, or Transfer Orders.

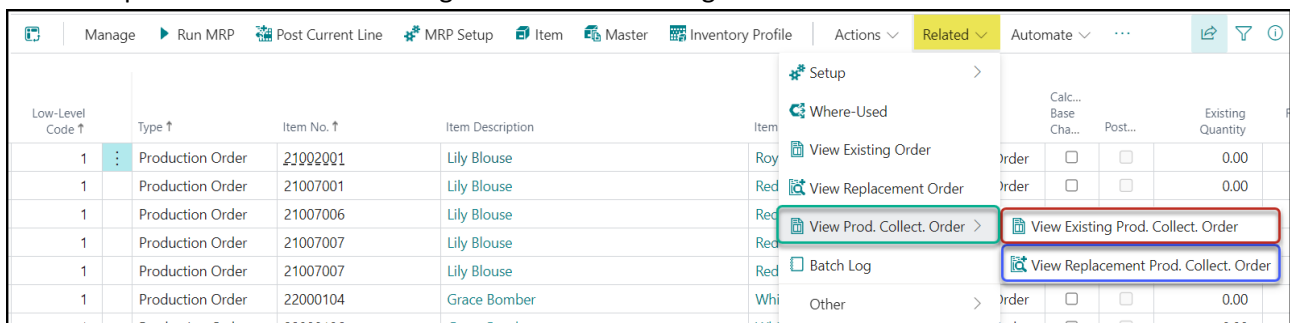
If **MRP Limitations** were setup, you can see the Production Collecting Order in the field **Replacement Prod. Collect. Order No.**

EXISTING PROD. COLLECT. ORDER NO.

If an existing Production Collecting Order is found in the Calculation Buffer, the actual Order number is shown here.

You can see the details of this Order by double-click on the field **Existing Prod. Collect. Order No.** (or click **Related, View Prod. Collect. Order, View Existing Prod. Collect. Order**).

This will open the Card of the existing Production Collecting Order.



Low-Level Code ↑	Type ↑	Item No. ↑	Item Description	Item	Calc... Base Cha...	Post...	Existing Quantity
1	Production Order	21002001	Lily Blouse	Roy	Order	☐	0.00
1	Production Order	21007001	Lily Blouse	Red	Order	☐	0.00
1	Production Order	21007006	Lily Blouse	Red	Order	☐	0.00
1	Production Order	21007007	Lily Blouse	Red	Order	☐	0.00
1	Production Order	21007007	Lily Blouse	Red	Order	☐	0.00
1	Production Order	22000104	Grace Bomber	Whi	Order	☐	0.00

REPLACEMENT PROD. COLLECT. ORDER NO.

After posting the MRP Actions, this field will show the new Production Collecting Order that has been created or changed based on the **MRP Limitations**.

You can see the details of this Order by double-click on the field **Replacement Prod. Collect. Order No.** (or click **Related, View Prod. Collect. Order, View Replacement Prod. Collect. Order**).

This will open the Card of the changed/created Production Collecting Order.

ASSIGN LOCATION CODE

This will be the **Location Code** for the new/changed Order that will be created after posting the MRP Actions.

It can be based on the **Assign Location Code** of the **MRP Setup** or based on the **Location Code** of Sales Lines if the field **Run by Multiple Locations** in the **MRP Setup** has a checkmark.

If the field **Run by Multiple Locations** in the **MRP Setup** does not have a checkmark, and the **Assign Location Code** in the **MRP Setup** is empty, all demands will be summarized on an Action Line with **Assign Location Code** is empty!

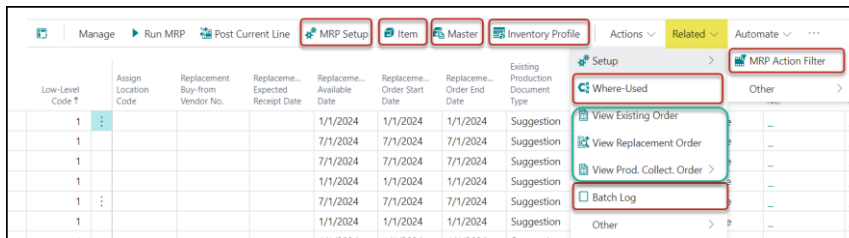
You can change this field manually before posting the MRP Actions.

NOTE

Regarding **Type Transfer Order**: In the table MRP Action (6037305), you do have the fields for **Transfer-from Code**, **Transfer-to Code** and **In-Transit Code** for the Locations involved. They are however not in the page **MRP Actions (6037308)**.

For **Type Transfer Order**, the **Assign Location Code** of the MRP Actions represents the **Transfer-to Code**.

RELATED



The screenshot shows the 'MRP Setup' page with a dropdown menu open for 'Where-Used'. The menu options are: 'View Existing Order', 'View Replacement Order', 'View Prod. Collect. Order', and 'Batch Log'. The 'Batch Log' option is highlighted with a red box.

MRP SETUP

This will open the Card of the used **MRP Setup**.

ITEM

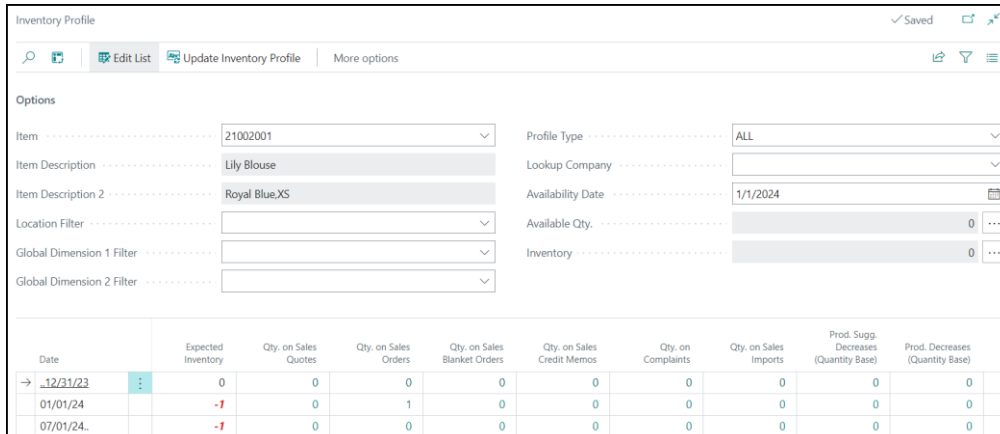
This will open the **Item Card** of the **Item No.** on the Action Line.

MASTER

This will open the **Master Card** of the **Item No.** on the Action Line.

INVENTORY PROFILE

This will show the **Inventory Profile** of the **Item No.** on the Action Line.



The screenshot shows the 'Inventory Profile' page. The 'Options' section includes fields for Item (21002001), Item Description (Lily Blouse), Item Description 2 (Royal Blue,XS), Location Filter, Global Dimension 1 Filter, and Global Dimension 2 Filter. The 'Profile Type' is set to 'ALL'. The 'Availability Date' is 1/1/2024. The 'Available Qty.' is 0. The 'Inventory' is 0. Below the options is a table with columns: Date, Expected Inventory, Qty. on Sales Quotes, Qty. on Sales Orders, Qty. on Sales Blanket Orders, Qty. on Sales Credit Memos, Qty. on Complaints, Qty. on Sales Imports, Prod. Sugg. Decreases (Quantity Base), and Prod. Decreases (Quantity Base). The table shows data for dates 12/31/23, 01/01/24, and 07/01/24.

Date	Expected Inventory	Qty. on Sales Quotes	Qty. on Sales Orders	Qty. on Sales Blanket Orders	Qty. on Sales Credit Memos	Qty. on Complaints	Qty. on Sales Imports	Prod. Sugg. Decreases (Quantity Base)	Prod. Decreases (Quantity Base)
→ 12/31/23	0	0	0	0	0	0	0	0	0
01/01/24	-1	0	1	0	0	0	0	0	0
07/01/24..	-1	0	0	0	0	0	0	0	0

MRP ACTION FILTER

This will show the filters used when running the **MRP Calculation**.

MRP Action Filter

Name

DEFAULT

Run MRP By

By Sales Line

Manage

Create/Modify Filter

Table Name ↑	Field Name	Filter
→ Sales Line	Document Type	Order
Sales Line	Document No.	0100001

At the initial run, the filters used on the MRP Calculation are saved and will be inserted in the MRP Calculation as an initial suggestion at recalculation.

WHERE USED

This function can show you in which Bill of Materials the current Action Line is used.

○ BOM Information

○ Item & BOM Information

● Master BOM Information

OK

Cancel

You can choose between the following three options:

BOM Information	You want to know in which Masters of Item BOMs specific Items/Operations are used in the BOM
Item & BOM Information	You want to know in which Items specific Items/Operations are used in the BOM
Master BOM Information	You want to know in which Masters specific Items/Operations are used in the BOM

I.e., for Item *M201020 Fabric 70 % Polyamide, 30 % Elastane, Royal Blue*, choosing option *BOM Information* will show:

Where-Used List

✓ Saved

Master

Where-Used Item

BOM Lines

Related Record

BOM Type	BOM Item No.	BOM Item Description	Part Item No.	Where-Used Item No.	Descrip...	Type	No.	Description	Quantity per	Base Unit of Measure	Replenish... Policy
Master BOM	2100	Lily Blouse				Item	M201020	Fabric 70% Polyamide, 30% Elastane	0	M	Inventory
Master BOM	2120	Sophia Shirt				Item	M201020	Fabric 70% Polyamide, 30% Elastane	0	M	Inventory
Master BOM	2300	Daisy Dress				Item	M201020	Fabric 70% Polyamide, 30% Elastane	0	M	Inventory

BATCH LOG

This can show you the **Log** of all the MRP Calculations. I.e.:

Batch Log

✓ Saved

New

Edit List

Delete

Reset In Process

More options

Entry No. ↓	User Id	Code	Parameter 1	Parameter 2	Parameter 3	Parameter 4	Parameter 5	In Process	Start Date/Time	End Date/Time	Durat
5	ADMIN	MRP	TRANSFER	Report MRP by Item	TRANSFER	Type: Item	Item Type: Finished Goods..Raw Materials, Mast...		8/13/2024 2:45 P...	8/13/2024 2:46 P...	7 se
4	ADMIN	MRP	DEFAULT	Report MRP by Item	NET FASHION	Type: Item	Item Type: Finished Goods..Raw Materials, Mast...		8/13/2024 2:36 P...	8/13/2024 2:36 P...	211
3	ADMIN	MRP	PCO	Report MRP by Production Collecting...	NET FASHION	Type: Item	Document No: PCO80002		8/13/2024 2:35 P...	8/13/2024 2:35 P...	456
2	ADMIN	MRP	PO	Report MRP by Production Order	NET FASHION	Type: Item	No: PIW001		8/13/2024 2:35 P...	8/13/2024 2:35 P...	179
→ 1	ADMIN	MRP	SALES	Report MRP by Sales Line	NET FASHION	Document Type: Order[Invoice]Blanket Order, Docume...			8/13/2024 2:30 P...	8/13/2024 2:31 P...	22 s

ACTIONS

Manage

Run MRP

Post Current Line

MRP Setup

Item

Master

Inventory Profile

Actions

Related

Automate

Low-Level Code ↑

Type ↑

Item No. ↑

Item Description

Item Description 2

Approve

Actions

1

Production Order

21002001

Lily Blouse

Royal Blue,XS

✓

Ne

Other

1

Production Order

21007001

Lily Blouse

Red,XS

✓

New Order

1

Production Order

21007006

Lily Blouse

Red,XXL

✓

New Order

1

Production Order

21007007

Lily Blouse

Red,3XL

✓

New Order

1

Production Order

21007007

Lily Blouse

Red,3XL

✓

New Order

User Defined

Post Lines

Post All Approved

Post Approved Production Orders

Post Approved Purchase Orders

Post Approved Transfer Orders

Other

RUN MRP

Initiates the MRP Calculation and creates Action Lines.

The actual **Journal Batch Name** is transferred to the **MRP Setup** table field **Action Journal Batch Name**.

The report corresponding to the option in the Field **Run MRP** is called with field **MRP Setup**. On the report, it is possible to set filters.

POST LINES / POST ALL APPROVED

This will post all Action Lines with **Approved** = ☒

POST CURRENT LINE

This will only post the current Action Line if **Approved** = ☒.

POST LINES / POST APPROVED PRODUCTION ORDERS

This will only post Action Lines of **Type Production Order** and with **Approved** = ☒

POST LINES / POST APPROVED PURCHASE ORDERS

This will only post Action Lines of **Type Purchase Order** and with **Approved** = ☒

POST LINES / POST APPROVED TRANSFER ORDERS

This will only post Action Lines of **Type Transfer Order** and with **Approved** = ☒

POSTING ACTION LINES

If you post the Action Lines, via the above mentioned Actions that you can choose, the new Purchase Requisitions or Orders (based on the field **Assign Purchase Document Type** of the chosen MRP Setup) or new Production Suggestions or Orders (based on the field **Assign Production Order Document Type** of the chosen MRP Setup) or the new Transfer Orders or the new Production Collecting Orders (based on the **MRP Limitations**) will be created or changed.

If you did not delete the Action Lines during posting (field **Clear Posting by Recalculation** in the Batch Name), you can see the result in the Action Lines after posting.

The fields starting with *Replacement* will automatically be filled with the actual created/changed Order Nos.

Low-Level Code #	Type #	Item No. #	Item Description	Item Description 2	Approve	Action	Calc. Base Cha...	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Insu... Inve...	Unit of Measure Code	Existing Order No.	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-from Vendor No.
1	Production Order	21002001	Lily Blouse	Royal Blue,XS	☒	New Order	☐	☐	0.00	1.00	1.00	0.00	☐	PCS	—	PI000001	—		
1	Production Order	21007001	Lily Blouse	Red,XS	☒	New Order	☐	☐	0.00	1.00	1.00	0.00	☐	PCS	—	PI000002	—		
1	Production Order	21007006	Lily Blouse	Red,3XL	☒	New Order	☐	☐	0.00	1.00	1.00	0.00	☐	PCS	—	PI000003	—		
1	Production Order	21007007	Lily Blouse	Red,3XL	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PI000004	—		
1	Production Order	21007007	Lily Blouse	Red,3XL	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PI000005	—		
1	Production Order	22000104	Grace Bomber	White,4	☒	New Order	☐	☐	0.00	5.00	5.00	0.00	☐	PCS	—	PC000001	PC000001		
1	Production Order	22000106	Grace Bomber	White,6	☒	New Order	☐	☐	0.00	9.00	9.00	0.00	☐	PCS	—	PC000002	PC000001		
1	Production Order	22000108	Grace Bomber	White,8	☒	New Order	☐	☐	0.00	8.00	8.00	0.00	☐	PCS	—	PC000003	PC000001		
1	Production Order	22000110	Grace Bomber	White,10	☒	New Order	☐	☐	0.00	8.00	8.00	0.00	☐	PCS	—	PC000004	PC000001		
1	Production Order	22000112	Grace Bomber	White,12	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PC000005	PC000001		
1	Production Order	22000114	Grace Bomber	White,14	☒	New Order	☐	☐	0.00	3.00	3.00	0.00	☐	PCS	—	PC000006	PC000001		
1	Production Order	22003004	Grace Bomber	Yellow,4	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PC000007	PC000002		
1	Production Order	22003006	Grace Bomber	Yellow,6	☒	New Order	☐	☐	0.00	4.00	4.00	0.00	☐	PCS	—	PC000008	PC000002		
1	Production Order	22003008	Grace Bomber	Yellow,8	☒	New Order	☐	☐	0.00	3.00	3.00	0.00	☐	PCS	—	PC000009	PC000002		
1	Production Order	22003010	Grace Bomber	Yellow,10	☒	New Order	☐	☐	0.00	3.00	3.00	0.00	☐	PCS	—	PC000010	PC000002		
1	Production Order	22003012	Grace Bomber	Yellow,12	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PC000011	PC000002		
1	Production Order	22003014	Grace Bomber	Yellow,14	☒	New Order	☐	☐	0.00	1.00	1.00	0.00	☐	PCS	—	PC000012	PC000002		
3	Production Order	M3920151...	MDF Uncoated 8...	15 mm	☒	New Order	☐	☐	0.00	4.00	4.00	0.00	☐	PCS	—	PC000013	PC000003		3000
3	Production Order	M3920152...	MDF Uncoated 8...	15 mm	☒	New Order	☐	☐	0.00	4.00	4.00	0.00	☐	PCS	—	PC000014	PC000003		3000
4	Purchase Order	23106038	Freya Dress	Forest Green,38	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PU00001	—	BLUE	2300
4	Purchase Order	23106040	Freya Dress	Forest Green,40	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PU00002	—	BLUE	2300
4	Purchase Order	M2000092	Fabric 72% Poly...	Black	☒	Delete Order	☐	☐	500.00	0.00	-500.00	0.00	☐	M	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M201020	Fabric 70% Poly...	Royal Blue	☒	New Order	☐	☐	0.00	1.50	1.50	0.00	☐	M	—	0200004	—	BLUE	2000
4	Purchase Order	M201070	Fabric 70% Poly...	Red	☒	New Order	☐	☐	0.00	5.20	5.20	0.00	☐	M	—	0200004	—	BLUE	2000
4	Purchase Order	M201070	Fabric 70% Poly...	Red	☒	New Order	☐	☐	0.00	9.00	9.00	0.00	☐	M	—	0200004	—	BLUE	2000
4	Purchase Order	M203001	Jaguar Print 72% ...	White	☒	Delete Order	☐	☐	1,000.00	0.00	-1,000.00	0.00	☐	M	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M203030	Jaguar Print 72% ...	Yellow	☒	Delete Order	☐	☐	1,000.00	0.00	-1,000.00	0.00	☐	M	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M210020	Thread 100% Cott...	Black	☒	Delete Order	☐	☐	2.00	0.00	-2.00	0.00	☐	SPOOL	—	PU00001	PU00001	BLUE	2000
4	Purchase Order	M210020	Thread 100% Cott...	Black	☒	Delete Order	☐	☐	10.00	0.00	-10.00	0.00	☐	SPOOL	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M210025	Thread 100% Cott...	Blue	☒	Delete Order	☐	☐	2.00	0.00	-2.00	0.00	☐	SPOOL	—	PU00001	PU00001	BLUE	2000
4	Purchase Order	23106038	Freya Dress	Forest Green,38	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PU00001	—	BLUE	2300
4	Purchase Order	23106040	Freya Dress	Forest Green,40	☒	New Order	☐	☐	0.00	2.00	2.00	0.00	☐	PCS	—	PU00002	—	BLUE	2300
4	Purchase Order	M2000092	Fabric 72% Poly...	Black	☒	Delete Order	☐	☐	500.00	0.00	-500.00	0.00	☐	M	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M201020	Fabric 70% Poly...	Royal Blue	☒	New Order	☐	☐	0.00	1.50	1.50	0.00	☐	M	—	0200004	—	BLUE	2000
4	Purchase Order	M201070	Fabric 70% Poly...	Red	☒	New Order	☐	☐	0.00	5.20	5.20	0.00	☐	M	—	0200004	—	BLUE	2000
4	Purchase Order	M201070	Fabric 70% Poly...	Red	☒	New Order	☐	☐	0.00	9.00	9.00	0.00	☐	M	—	0200004	—	BLUE	2000
4	Purchase Order	M203001	Jaguar Print 72% ...	White	☒	Delete Order	☐	☐	1,000.00	0.00	-1,000.00	0.00	☐	M	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M203030	Jaguar Print 72% ...	Yellow	☒	Delete Order	☐	☐	1,000.00	0.00	-1,000.00	0.00	☐	M	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M210020	Thread 100% Cott...	Black	☒	Delete Order	☐	☐	2.00	0.00	-2.00	0.00	☐	SPOOL	—	PU00001	PU00001	BLUE	2000
4	Purchase Order	M210020	Thread 100% Cott...	Black	☒	Delete Order	☐	☐	10.00	0.00	-10.00	0.00	☐	SPOOL	—	PW00001	PW00001	BLACK	2000
4	Purchase Order	M210025	Thread 100% Cott...	Blue	☒	Delete Order	☐	☐	2.00	0.00	-2.00	0.00	☐	SPOOL	—	PU00001	PU00001	BLUE	2000

As shown in the previous picture, Production Collecting Orders can be created as well if you use the **MRP Limitations with Type Production Collecting Order**. I.e.:

Type #	Limitation Code #	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Location Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Item Category Code	Brand Filter	Season Filter	Filter Production Series	Order per Asslt. Date	Order per Production Series	Order per Master	Order per Locat.	Order per MRP Responsibl.	Order per VarDim Y-Axis	Order per VarDim X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per 2200/Color	2200														☐	☐	☒	☒	☐	☒	☐	☐
Production Collecting Order	3000	PCO per Master Chair	30*														☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M31	PCO per Master Table Top	M31*														☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*														☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M33	PCO All Cabinet Materials	M33*														☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*														☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	SHOE	PCO All Shoes															☐	☒	☒	☒	☐	☐	☐	☐
Purchase	M20	Order for All Fabrics							910								☐	☐	☒	☒	☐	☐	☐	☐
Purchase	M21	Order for All Leathers							920								☐	☐	☒	☒	☐	☐	☐	☐

For all Masters for which Production Orders must be created/maintained:

- For all Masters that start with a **M39***, **Production Collecting Orders** will be created per **Master/Location**.
- For all Masters that start with **30***, a **Production Collecting Orders** will be created per **Master/Location**.
- For Master **2200** a **Production Collecting Order** will be created per **VarDim Y-Axis (Color)**

For all Masters for which Purchase Requisitions/Orders must be created/maintained:

- For all Masters that have **Item Group (Item Statistics Group 2) 910 Fabrics** a **Purchase Requisition/Order** will be created per **Vendor/Location/MRP Responsible**
- For all Masters that have **Item Group (Item Statistics Group 2) 920 Leathers** a **Purchase Requisition/Order** will be created per **Vendor/Location/MRP Responsible**
- For all other Masters, a **Purchase Requisition/Order** will be created per **Vendor/Master/Location**.

JOB QUEUE FOR MRP

Because the MRP Calculation can take much time, we have created a special Job Queue for the MRP Calculation.

NOTE

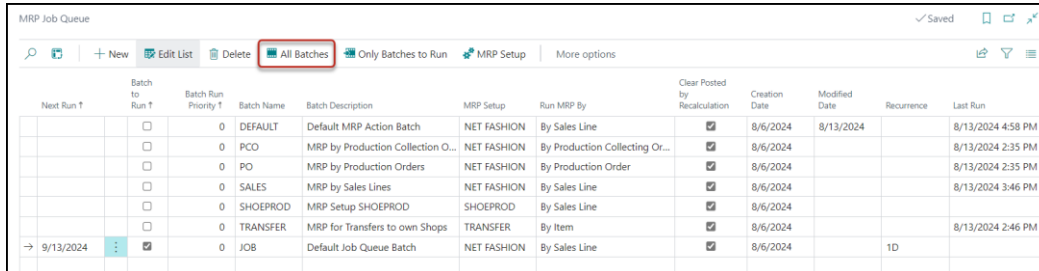
Keep in mind that the Job Queue is working with the actual Windows Data, and not with the Work Date. So, in case you are trying/demoing this procedure change the Work Date of the Demo Company into the actual Date or make sure that Dates used for **Next Run** or **Earliest Start Date** etc. are based on the actual Dates.

MRP JOB QUEUE

You can create new Job Queue for MRP via **Search MRP Job Queue**:

You can setup the **MRP Job Queue** by using the MRP Action **Journal Batch Names** that were also used in the **MRP Actions**.

First, click **All Batches**, to see all the [MRP Action Journal Batches](#) that already have been created.



Next Run ↑	Batch to Run ↑	Batch Run Priority ↑	Batch Name	Batch Description	MRP Setup	Run MRP By	Clear Posted by Recalculation	Creation Date	Modified Date	Recurrence	Last Run
	☐	0	DEFAULT	Default MRP Action Batch	NET FASHION	By Sales Line	☒	8/6/2024	8/13/2024		8/13/2024 4:58 PM
	☐	0	PCO	MRP by Production Collection O...	NET FASHION	By Production Collecting Or...	☒	8/6/2024			8/13/2024 2:35 PM
	☐	0	PO	MRP by Production Orders	NET FASHION	By Production Order	☒	8/6/2024			8/13/2024 2:35 PM
	☐	0	SALES	MRP by Sales Lines	NET FASHION	By Sales Line	☒	8/6/2024			8/13/2024 3:46 PM
	☐	0	SHOEPROD	MRP Setup SHOEPROD	SHOEPROD	By Sales Line	☒	8/6/2024			
	☐	0	TRANSFER	MRP for Transfers to own Shops	TRANSFER	By Item	☒	8/6/2024			8/13/2024 2:46 PM
→ 9/13/2024	☒	0	JOB	Default Job Queue Batch	NET FASHION	By Sales Line	☒	8/6/2024		1D	

DESCRIPTION OF THE FIELDS

NEXT RUN

The **Date** for the Next Run of the MRP Calculation.

When a **Batch Name** is attached to the MRP Job Queue (**Batch to Run** is set to Yes), the **Next Run** Date is Mandatory. If the field **Recurrence** (DateFormula) is filled, the field **Next Run** is automatically recalculated when the Batch Name was executed via the Job Queue.

BATCH TO RUN

A checkmark in this field means that the **MRP Action Journal Batch Name** is Active for the MRP Job Queue but will only be executed if the Codeunit **6037026 MRP Job Queue** is in the [Job Queue Entries](#).

Before you can enter a checkmark in this field, you need to enter a Date in the **Next Run**!

Also, the **MRP Setup** and **Run MRP by** needs to be filled already!

BATCH RUN PRIORITY

If multiple Batch Names are executed on the same Date the **Batch Run Priority** can be used to control which Batch Name is executed first. The highest priority (lowest Integer) is executed before the lowest priority (higher Integers).

This gives you the opportunity to run i.e., a Batch Name for the Finished Goods first and after that another Batch for the Components of the BOM's.

BATCH NAME

Name of the **MRP Action Journal Batch** for which you want to run the Job Queue

NOTE

If you create a new Line in the **MRP Job Queue** with a new **Batch Name**, it is also creating a record in the **MRP Action Journal Batch**, so can also be chosen in the **MRP Actions** on the field **Journal Batch Name**.

BATCH DESCRIPTION

Description of the **MRP Action Journal Batch** for which you want to run the Job Queue.

MRP SETUP

The code of the **MRP Setup** for which you want the MRP Calculation take place.

RUN MRP BY

The report for which the MRP Calculation should take place.

You can choose between the following four options:

- By Items
- By Sales Line
- By Production Orders
- By Prod. Collecting Order

CLEAR POSTED BY RECALCULATION

If this field is set to ☒ all the MRP Action Lines that have been posted for the actual MRP Action Journal **Batch Name** are deleted each time an MRP Calculation is executed again.

If this field is set to ☐, the MRP Action Lines with **Posted** is Yes for the actual MRP Action Journal **Batch Name**, will be maintained in the MRP Action Lines table; even if you execute an MRP Calculation again.

NOTE

Initial value is ☒.

CREATION DATE

This field will automatically be filled with the actual (Windows) Date the moment you create an MRP Action Journal Batch.

MODIFIED DATE

This field will automatically be filled with the actual (Windows) Date the moment you change an MRP Action Journal Batch (directly or indirectly).

RECURRENCE

You can enter a Date Formula for the recurrence period regarding the Job Queue for the MRP Calculation.

LAST RUN

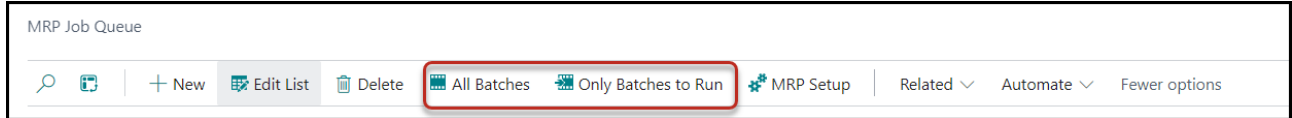
Shows the Date and Time on which the last MRP Calculation did take place with this **Batch Name** (MRP Journal Batch Name).

This can be an MRP Calculation that started via the MRP Actions manually or an MRP Calculation that was executed via the Job Queue.

NOTE

Changing one of the fields in this page of an existing **MRP Action Journal Batch** is also changing the data for future MRP Calculations in the **MRP Actions** when you use this **Batch Name** in the **Journal Batch Name**. That is why we recommend using different Batch Names for the Batches used in the MRP Actions and Batches used in the MRP Job Queues.

ACTIONS



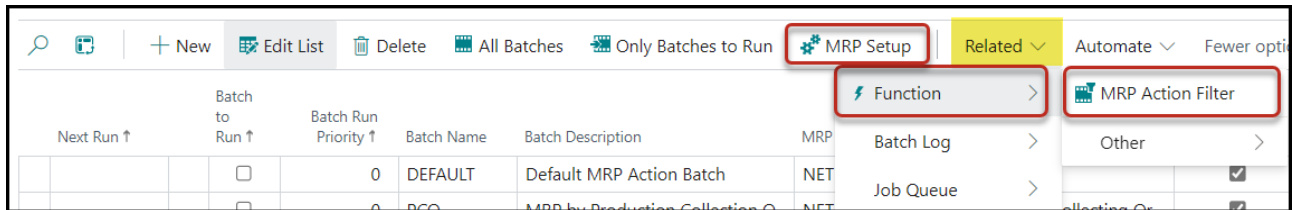
ALL BATCHES

This will show you all the **MRP Action Journal Batches** that were created.

ONLY IN BATCHES TO RUN

This will show you only the **MRP Action Journal Batches** with a checkmark in **Batch Run**.

RELATED/FUNCTION

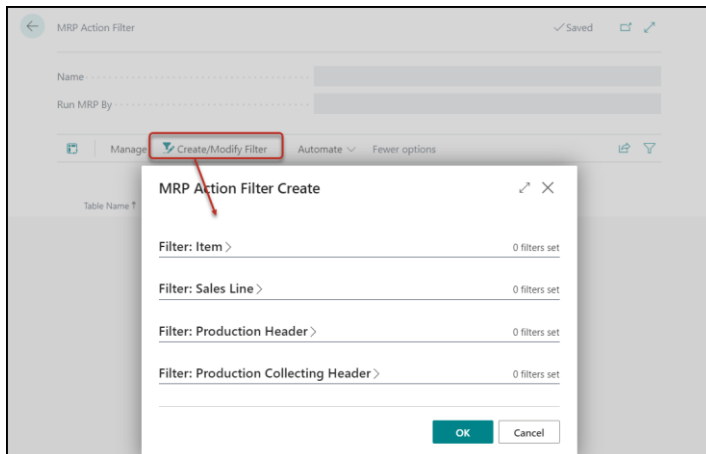


MRP SETUP

This will show you the Card of the **MRP Setup**

MRP ACTION FILTER

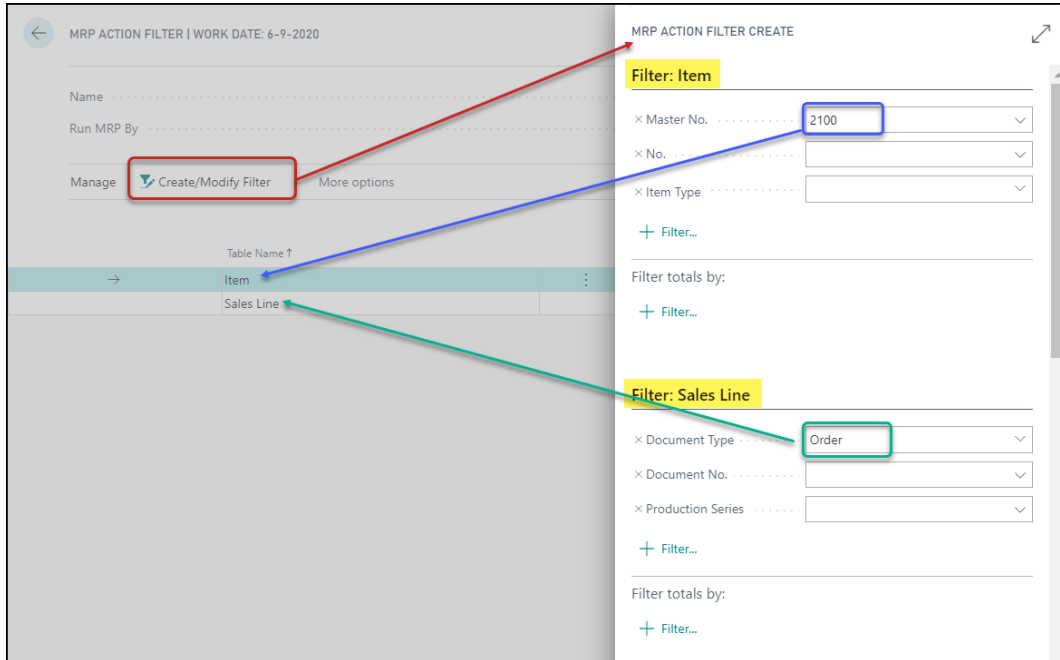
This will give you the opportunity to enter the filters for this specific **Batch Name**:



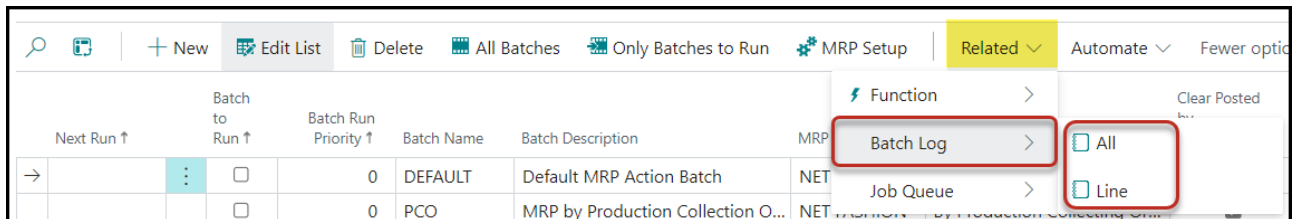
Keep in mind that the same filters apply as described earlier in [By Items](#), [By Sales Lines](#), [By Production Orders](#) and [By Production Collection Orders](#).

Also, keep in mind that if the **Batch Name** is also used in a manually started **MRP Calculation** via the **MRP Actions**, these filters will be changed automatically based on the used filters for running the MRP Calculation.

I.e., for the **Name DEFAULT** you can enter filters on the **Item** (for inventory driven Items) and **Sales Line** (regarding Related Orders only).



RELATED/BATCH LOG



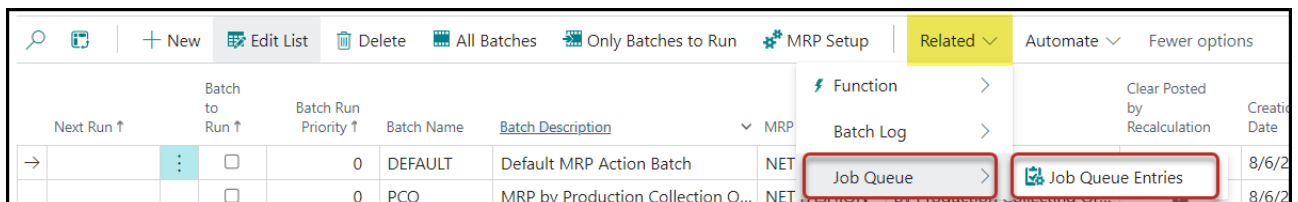
ALL

Will show all records in the Batch Log, regardless the **MRP Action Journal Batch** that was used.

LINE

Will only show the records in the Batch Log regarding the current **Batch Name** (MRP Action Journal Batch).

RELATED/JOB QUEUE



JOB QUEUE ENTRY

After you have created the MRP Job Queue records with a checkmark in **Batch Run**, nothing happens, until you create the right **Job Queue Entry**.

This can be done via **Related, Job Queue, Job Queue Entries**, click **New**.

Job Queue Entries									
✓ Saved 🔖 🔗 🔍 🔍 🔖 ➕ New ✎ Edit List 🗑 Delete ✎ Edit 👁 View 🔄 Set Status to Ready ▶ Restart 🔄 Run once (foreground) ⏸ Set On Hold ⚠ Show Error More options									
Status	User ID	Object Type to Run	Object ID to Run	Object Caption to Run	Description	Job Queue Category Code	Priority	User Session Started	Earliest Start Date/Time
→ On Hold	ADMIN	Codeunit	6037326	trm MRP Job Queue	trm MRP Job Queue		Normal		

Job Queue Entry Card

Codeunit · 6037326 · trm MRP Job Queue

[Home](#)
[Job Queue](#)
[More options](#)

🔄 Set Status to Ready
⏸ Set On Hold
▶ Restart
🔄 Run once (foreground)
⚠ Show Error

General
Show more

Object Type to Run
Codeunit

Object ID to Run
6037326

Object Caption to Run
trm MRP Job Queue

Description
trm MRP Job Queue

Earliest Start Date/Time

Job Timeout
12 hours

Status
On Hold

Recurrence

Recurring Job

Run on Mondays

Run on Tuesdays

Run on Wednesdays

Run on Thursdays

Run on Fridays

Run on Saturdays

Run on Sundays

Next Run Date Formula

Starting Time
7:00:00 PM

Ending Time

No. of Minutes between...
1440

Inactivity Timeout Period...
5

For the **MRP Calculation**, the following fields must be set:

OBJECT TYPE TO RUN

This must be the *Codeunit*

OBJECT ID TO RUN

This must be *6037326 trm MRP Job Queue*.

All the fields are standard Business Central fields and will not be described in detail.

After entering all the other fields, do not forget to click **Home, Set Status to Ready**, otherwise the Job will not be executed.

[Home](#)
[Job Queue](#)
[More options](#)

🔄 Set Status to Ready
⏸ Set On Hold
▶ Restart
🔄 Run once (foreground)
⚠ Show Error

See <https://docs.microsoft.com/en-us/dynamics365/business-central/admin-job-queues-schedule-tasks> for more details.

There is the possibility to attach Subscribers before and after the execution of Batches and before and after execution of the individual Batch:

```

1  Codeunit 6037326 "trm MRP Job Queue"
2  {
3
4      trigger OnRun()
5      begin
6          Pf_OnBeforeMRPBatchLoop;
7
8          MRPActionJournalBatch.SetCurrentkey("Batch Run", "Next Run", "Batch Run Priority");
9          MRPActionJournalBatch.SetRange("Batch Run", true);
10         MRPActionJournalBatch.SetFilter("Next Run", '%1..%2', 0D, WorkDate);
11         if MRPActionJournalBatch.FindFirst then
12             repeat
13                 Pf_OnBeforeMRPBatchRun(MRPActionJournalBatch);
14
15                 InitiateMRP.MRPActionBatchRun(MRPActionJournalBatch.Name);
16
17                 Pf_OnAfterMRPBatchRun(MRPActionJournalBatch);
18             until MRPActionJournalBatch.Next = 0;
19
20         Pf_OnAfterMRPBatchLoop;
21     end;
22

```

EXTRA DATA

For the Masters 2300, 2310, 2320 and 2330 there are already SKUs created for the **Location BLUE**, **S_BRISTOL**, **S_LONDON** and **S_MANCHEST** if you want to show/explain the **Requisition System Transfer**.

To see the pictures as shown in this White Paper, extra data has been added to the demo company **CRONUS TRIMIT W1 Ltd**.

MRP LIMITATIONS

MRP Limitations																								
Type 1	Limitation Code 1	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Location Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Category Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Production Series	Order per Master	Order per Locati...	Order per MRP Responsi...	Order per VarDim Y-Axis	Order per VarDim X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per 2200/Color	2200					0	0	0	0	0					☐	☐	☐	☐	☒	☐	☐	☐
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M33	PCO All Cabinet Materials	M33*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0					☐	☐	☒	☒	☐	☐	☐	☐
Production Collecting Order	SHOE	PCO All Shoes						0	0	0	0	0			SHOES		☐	☒	☐	☒	☐	☐	☐	☐
Purchase	M20	Order for All Fabrics						0	910	0	0	0					☐	☐	☐	☒	☒	☐	☐	☐
Purchase	M21	Order for All Leathers						0	920	0	0	0					☐	☐	☐	☒	☒	☐	☐	☐

SALES ORDERS

SALES ORDER 0100001 (RELEASED)

For Customer 2000 without any **Order Type** or **Collection** and Sales Lines with **Location BLUE**:

2200	Grace Bomber	72	69,00	35,99	2.591,28
					
01 White	4 6 8 10 12 14 16				
30 Yellow	5 10 10 10 5 5		69,00		
2100	3 6 6 6 4 2		69,00		
Lily Blouse		32	69,00	35,99	1.151,68
					
20 Royal Blue	XS S M L XL XXL 3XL				
70 Red	1 2 3 2 1		69,00		
3100062423	2 3 4 4 3 3		69,00		
Dining Table Artemis		4	1.299,00	731,50	2.926,00
Laminate Color					
Legs					
Size					
					
2310	Freya Dress	37	109,00	55,00	2.035,00
					
60 Forest Green	36 38 40 42 44 46 48 50 52				
	4 4 7 7 7 4 4		109,00		

SALES ORDER 0100002 (RELEASED)

For Customer *2010* without any **Order Type** or **Collection** and Sales Lines with **Location** *SHOEPROD*:

No.	Description	Quantity	List Price	Unit Price	Amount				
2100	Lily Blouse	18	87,20	45,99	827,82				
									
	XS	S	M	L	XL	XXL	3XL		
20	Royal Blue		2	4	4	2			87,20
73	Pink		1	2	2	1			87,20
Total									827,82

SOME SCENARIOS

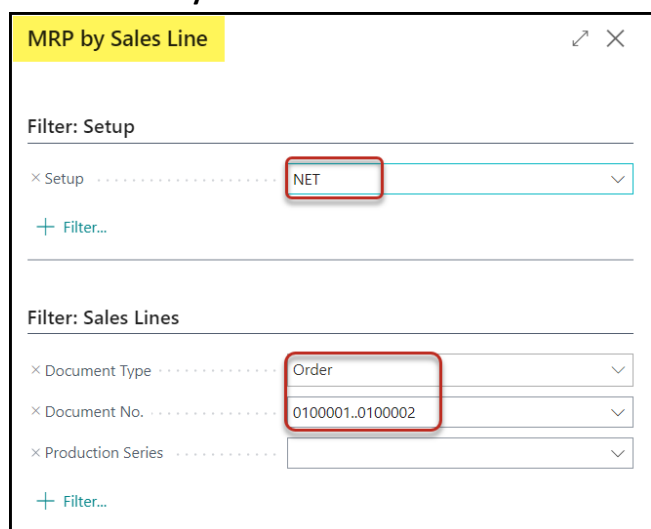
In this Chapter, we will show some scenario's (especially regarding Locations) based on the data in the **CRONUS TRIMIT W1 Ltd.** demo company based on our **TRIMIT Data and Test App**, and the [Extra Data](#). The results might differ from running the scenarios in a Demo Site, but we hope the intention is clear.

For every scenario, we started again with a 'clean' demo company + [Extra Data](#)

SCENARIO 1 – MRP BY SALES LINES

You want to create immediately Purchase Requisitions and Production Orders based on the MRP Calculation and you do not care about separate Locations for shipping; you will handle that afterwards – if necessary. So, the calculation for what to buy/produce is based on quantities over ALL Locations.

Run the **MRP By Sales Lines** for the Sales Orders **0100001..0100002** and und use the **MRP Setup NET**.



RESULT

a. **Four Purchase Requisitions.** The **Location Code** came from the **Location Code** of the Vendors!!!

Purchase Quotes: All					
No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Location Code	Assigned User ID
PUQ00001	2300	Oriental Production Services		BLUE	
PUQ00002	3000	All Wood Ltd.		BLUE	
PUQ00003	2000	Sewing & Stitching Lda.		BLUE	
PUQ00004	3400	Polymer Products Inc.		GREY	

b. Many **Production Orders** with **Document Type Suggestion** and **MRP Method Net** without any **Location Code** in the Header or the Component Lines: 1 Production Order per Item.

Production Orders: All										
Document Type	No. ↑	Item No.	Item Description	Item Description 2	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Suggestion	PI000001	21002001	Lily Blouse	Royal Blue,XS	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000002	21007007	Lily Blouse	Red,3XL	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000003	21007305	Lily Blouse	Pink,XL	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000004	22000104	Grace Bomber	White,4	New	1/1/2024	1/1/2024	5	5	
Suggestion	PI000005	22000106	Grace Bomber	White,6	New	1/1/2024	1/1/2024	9	9	
Suggestion	PI000006	22000108	Grace Bomber	White,8	New	1/1/2024	1/1/2024	8	8	
Suggestion	PI000007	22000110	Grace Bomber	White,10	New	1/1/2024	1/1/2024	8	8	
Suggestion	PI000008	22000112	Grace Bomber	White,12	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000009	22000114	Grace Bomber	White,14	New	1/1/2024	1/1/2024	3	3	
Suggestion	PI000010	22003004	Grace Bomber	Yellow,4	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000011	22003006	Grace Bomber	Yellow,6	New	1/1/2024	1/1/2024	4	4	
Suggestion	PI000012	22003008	Grace Bomber	Yellow,8	New	1/1/2024	1/1/2024	3	3	
Suggestion	PI000013	22003010	Grace Bomber	Yellow,10	New	1/1/2024	1/1/2024	3	3	
Suggestion	PI000014	22003012	Grace Bomber	Yellow,12	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000015	22003014	Grace Bomber	Yellow,14	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000016	M39201511000...	MDF Uncoated Board (made to measure)	15 mm	New	1/1/2024	1/1/2024	4	4	
Suggestion	PI000017	M39201520001...	MDF Uncoated Board (made to measure)	15 mm	New	1/1/2024	1/1/2024	4	4	

But also, a list of related Production Orders that have been created for some Materials with **MRP Method** is *Order*.

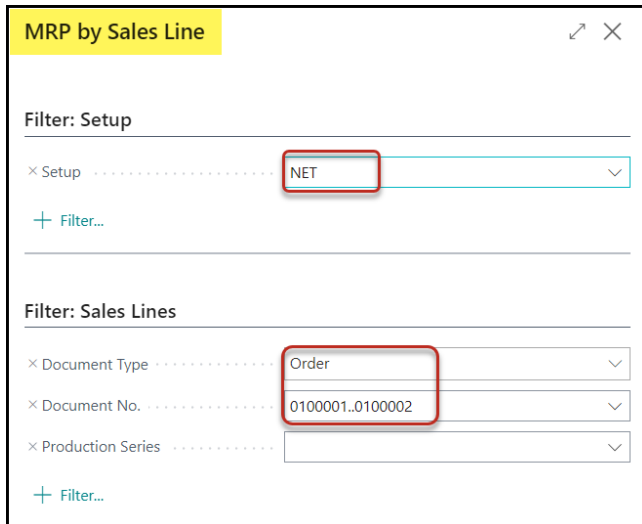
Production Orders: All										
Document Type	No. ↑	Item No.	Item Description	Item Description 2	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Order	PO000039	3100062423	Dining Table Artemis	Pale Gold,Oak Black,110...	New	1/1/2024	1/1/2024	4	4	01000001
Order	PO000040	M31000623	Table Top Laminated MDF Board with Lenoleum...	Pale Gold,110 x 240	New	1/1/2024	1/1/2024	4	4	01000001

- c. No new **Production Collecting Orders**. MRP Limitations are only applicable by using the MRP Actions!

SCENARIO 2 – MRP BY SALES LINES / RUN BY MULTIPLE LOCATIONS

You want to create immediately Purchase Requisitions and Production Orders based on the MRP Calculation and these orders needs to be based on the shipping Location Code in the Sales Lines. So, the calculation for what to buy/produce is based on quantities calculated per Location.

Run the **MRP By Sales Lines** for the Sales Orders *0100001..0100002* and und use the **MRP Setup NET**. Change in the **MRP Setup NET** the field **Run by Multiple Locations** to ☒.



RESULT

- a. Five **Purchase Requisitions**. The **Location Code** came from the **Location Code** of the Sales Lines!!! Therefore, we now have two Requisitions for Vendor *2000*.

Purchase Quotes: All					
No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorization No.	Location Code	Assigned User ID
PUQ00001	2300	Oriental Production Services		BLUE	
PUQ00002	3000	All Wood Ltd.		BLUE	
PUQ00003	2000	Sewing & Stitching Lda.		BLUE	
PUQ00004	2000	Sewing & Stitching Lda.		SHOEPROD	
PUQ00005	3400	Polymer Products Inc.		BLUE	

- b. Many **Production Orders** with **Document Type Suggestion** and **MRP Method Net** with a **Location Code** in the Header (based on the Location Code of the Sales Lines) and the same **Location Code** in the Component Lines. Therefore, you could get several Production Orders for the same Item but with various Locations or get more Production Orders - .28 instead of the 17 of Scenario 1.

Production Orders: All										
Document Type	No. ↑	Item No.	Item Description	Item Description 2	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Suggestion	PI000001	21002001	Lily Blouse	Royal Blue,XS	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000002	21002002	Lily Blouse	Royal Blue,S	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000003	21002003	Lily Blouse	Royal Blue,M	New	1/1/2024	1/1/2024	4	4	
Suggestion	PI000004	21002004	Lily Blouse	Royal Blue,L	New	1/1/2024	1/1/2024	4	4	
Suggestion	PI000005	21002005	Lily Blouse	Royal Blue,XL	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000006	21007003	Lily Blouse	Red,M	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000007	21007004	Lily Blouse	Red,L	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000008	21007005	Lily Blouse	Red,XL	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000009	21007006	Lily Blouse	Red,XXL	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000010	21007007	Lily Blouse	Red,3XL	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000011	21007302	Lily Blouse	Pink,S	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000012	21007303	Lily Blouse	Pink,M	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000013	21007304	Lily Blouse	Pink,L	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000014	21007305	Lily Blouse	Pink,XL	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000015	22000104	Grace Bomber	White,4	New	1/1/2024	1/1/2024	5	5	
Suggestion	PI000016	22000106	Grace Bomber	White,6	New	1/1/2024	1/1/2024	9	9	
Suggestion	PI000017	22000108	Grace Bomber	White,8	New	1/1/2024	1/1/2024	8	8	
Suggestion	PI000018	22000110	Grace Bomber	White,10	New	1/1/2024	1/1/2024	8	8	
Suggestion	PI000019	22000112	Grace Bomber	White,12	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000020	22000114	Grace Bomber	White,14	New	1/1/2024	1/1/2024	3	3	
Suggestion	PI000021	22003004	Grace Bomber	Yellow,4	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000022	22003006	Grace Bomber	Yellow,6	New	1/1/2024	1/1/2024	4	4	
Suggestion	PI000023	22003008	Grace Bomber	Yellow,8	New	1/1/2024	1/1/2024	3	3	
Suggestion	PI000024	22003010	Grace Bomber	Yellow,10	New	1/1/2024	1/1/2024	3	3	
Suggestion	PI000025	22003012	Grace Bomber	Yellow,12	New	1/1/2024	1/1/2024	2	2	
Suggestion	PI000026	22003014	Grace Bomber	Yellow,14	New	1/1/2024	1/1/2024	1	1	
Suggestion	PI000027	M39201511000400	MDF Uncoated Board (made to measure)	15 mm	New	1/1/2024	1/1/2024	4	4	
Suggestion	PI000028	M39201520001100	MDF Uncoated Board (made to measure)	15 mm	New	1/1/2024	1/1/2024	4	4	

But also, a list of related Production Orders that have been created for some Materials with **MRP Method is Order**; this was similar to Scenario 1.

Production Orders: All										
Document Type	No. ↑	Item No.	Item Description	Item Description 2	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Order	PO000039	21000062423	Dining Table Artemis	Pale Gold,Oak Black,110...	New	1/1/2024	1/1/2024	4	4	01000001
Order	PO000040	M31000623	Table Top Laminated MDF Board with Lenoleum...	Pale Gold,110 x 240	New	1/1/2024	1/1/2024	4	4	01000001

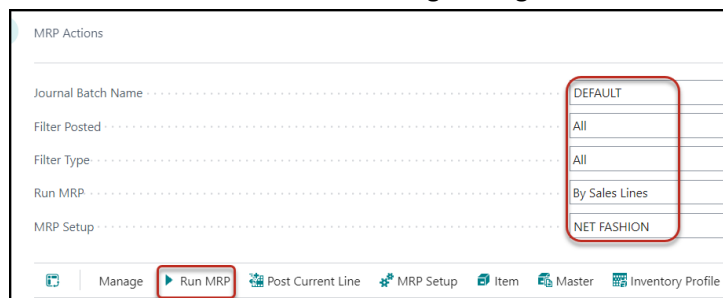
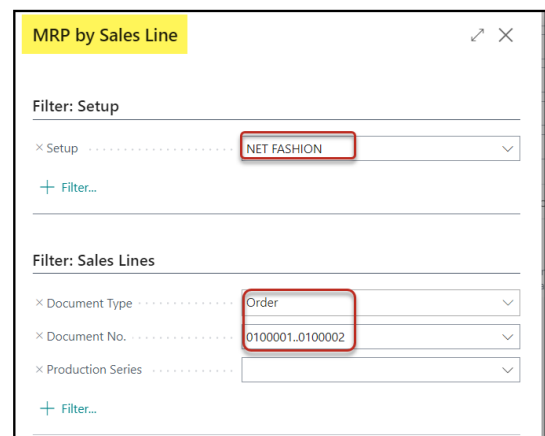
- c. No new **Production Collecting Orders**. MRP Limitations are only applicable by using the MRP Actions!

SCENARIO 3 – MRP ACTIONS WITH NET FASHION - 1

You want to get an overview of the suggestions for Purchase and Production Orders before creating these Orders and you do not care about separate Locations for shipping; you will handle that afterwards – if necessary. So, the calculation for what to buy/produce is based on quantities over ALL Locations. In addition, you have setup rules for creating Production Collection Orders (PCO's) and Purchase Orders in the MRP Limitations.

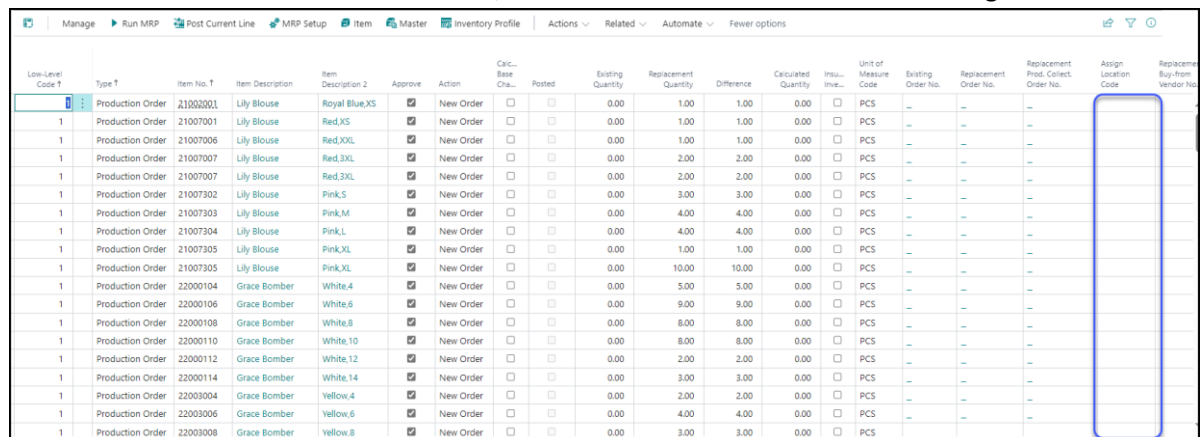
In the **MRP Actions**, run it **By Sales Lines** for the Sales Order 0100001..0100002 and use the **MRP Setup NET FASHION**.

Run the **MRP Actions** with following settings:

RESULT

- You see the **MRP Actions**: one line per Item and the **Assign Location Code** is empty – unless you have a Location Code in the Vendor Card, so the Action Lines for Purchase Orders get a Location.



Low-Level Code T	Type T	Item No. T	Item Description	Item Description 2	Approve	Action	Calc. Base Chk...	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Insu. Inve...	Unit of Measure Code	Existing Order No.	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-from Vendor No.
1	Production Order	21002001	Lily Blouse	Royal Blue,XS	✓	New Order			0.00	1.00	1.00	0.00		PCS					
1	Production Order	21007001	Lily Blouse	Red,XS	✓	New Order			0.00	1.00	1.00	0.00		PCS					
1	Production Order	21007006	Lily Blouse	Red,XXL	✓	New Order			0.00	1.00	1.00	0.00		PCS					
1	Production Order	21007007	Lily Blouse	Red,3XL	✓	New Order			0.00	2.00	2.00	0.00		PCS					
1	Production Order	21007007	Lily Blouse	Red,3XL	✓	New Order			0.00	2.00	2.00	0.00		PCS					
1	Production Order	21007302	Lily Blouse	Pink,S	✓	New Order			0.00	3.00	3.00	0.00		PCS					
1	Production Order	21007303	Lily Blouse	Pink,M	✓	New Order			0.00	4.00	4.00	0.00		PCS					
1	Production Order	21007304	Lily Blouse	Pink,L	✓	New Order			0.00	4.00	4.00	0.00		PCS					
1	Production Order	21007305	Lily Blouse	Pink,XL	✓	New Order			0.00	1.00	1.00	0.00		PCS					
1	Production Order	21007305	Lily Blouse	Pink,XL	✓	New Order			0.00	10.00	10.00	0.00		PCS					
1	Production Order	22000104	Grace Bomber	White,4	✓	New Order			0.00	5.00	5.00	0.00		PCS					
1	Production Order	22000106	Grace Bomber	White,6	✓	New Order			0.00	9.00	9.00	0.00		PCS					
1	Production Order	22000108	Grace Bomber	White,8	✓	New Order			0.00	8.00	8.00	0.00		PCS					
1	Production Order	22000110	Grace Bomber	White,10	✓	New Order			0.00	8.00	8.00	0.00		PCS					
1	Production Order	22000112	Grace Bomber	White,12	✓	New Order			0.00	2.00	2.00	0.00		PCS					
1	Production Order	22000114	Grace Bomber	White,14	✓	New Order			0.00	3.00	3.00	0.00		PCS					
1	Production Order	22003004	Grace Bomber	Yellow,4	✓	New Order			0.00	2.00	2.00	0.00		PCS					
1	Production Order	22003006	Grace Bomber	Yellow,6	✓	New Order			0.00	4.00	4.00	0.00		PCS					
1	Production Order	22003008	Grace Bomber	Yellow,8	✓	New Order			0.00	3.00	3.00	0.00		PCS					

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking **Actions, Post Lines, Post All Approve**, it could look like:

Low-Level Code #	Type #	Item No. #	Item Description	Item Description 2	Approve	Action	Calc. Base Chg.	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Insu. Inv.	Unit of Measure	Existing Order No.	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-From Vendor No.
1	Production Order	22003004	Grace Bomber	Yellow,4	✓	New Order			0.00	2.00	2.00	0.00		PCS		PO000047	PCO00002		
1	Production Order	22003006	Grace Bomber	Yellow,6	✓	New Order			0.00	4.00	4.00	0.00		PCS		PO000048	PCO00002		
1	Production Order	22003008	Grace Bomber	Yellow,8	✓	New Order			0.00	3.00	3.00	0.00		PCS		PO000049	PCO00002		
1	Production Order	22003010	Grace Bomber	Yellow,10	✓	New Order			0.00	3.00	3.00	0.00		PCS		PO000050	PCO00002		
1	Production Order	22003012	Grace Bomber	Yellow,12	✓	New Order			0.00	2.00	2.00	0.00		PCS		PO000051	PCO00002		
1	Production Order	22003014	Grace Bomber	Yellow,14	✓	New Order			0.00	1.00	1.00	0.00		PCS		PO000052	PCO00002		
3	Production Order	M3920151...	MDF Uncoated B...	15 mm	✓	New Order			0.00	4.00	4.00	0.00		PCS		PO000053	PCO00003		3000
3	Production Order	M3920152...	MDF Uncoated B...	15 mm	✓	New Order			0.00	4.00	4.00	0.00		PCS		PO000054	PCO00003		3000
4	Purchase Order	23106038	Freya Dress	Forest Green,38	✓	New Order			0.00	2.00	2.00	0.00		PCS		PU0003		BLUE	2300
4	Purchase Order	23106040	Freya Dress	Forest Green,40	✓	New Order			0.00	2.00	2.00	0.00		PCS		PU0003		BLUE	2300
4	Purchase Order	23106042	Freya Dress	Forest Green,42	✓	New Order			0.00	2.00	2.00	0.00		PCS		PU0003		BLUE	2300
4	Purchase Order	23106044	Freya Dress	Forest Green,44	✓	New Order			0.00	1.00	1.00	0.00		PCS		PU0003		BLUE	2300
4	Purchase Order	23106046	Freya Dress	Forest Green,46	✓	New Order			0.00	1.00	1.00	0.00		PCS		PU0003		BLUE	2300
4	Purchase Order	M200099	Fabric 72% Polya...	Black	✓	Delete Order			20.00	0.00	-20.00	0.00		M	PU0005	PU0005		BLUE	2000
4	Purchase Order	M200099	Fabric 72% Polya...	Black	✓	Delete Order			500.00	0.00	-500.00	0.00		M	PW0005	PW0005		BLACK	2000
4	Purchase Order	M201020	Fabric 70% Polya...	Royal Blue	✓	New Order			0.00	1.50	1.50	0.00		M		0200004		BLUE	2000
4	Purchase Order	M201070	Fabric 70% Polya...	Red	✓	New Order			0.00	5.20	5.20	0.00		M		0200004		BLUE	2000
4	Purchase Order	M201070	Fabric 70% Polya...	Red	✓	New Order			0.00	9.00	9.00	0.00		M		0200004		BLUE	2000

- b. New and changed **Purchase Orders**. The **Location Code** came from the **Location Code** of the Vendors!!!

No. #	Buy-From Vendor No.	Buy-From Vendor Name	Vendor Authorizati... No.	Order Type	Collection No.	Location Code	Assigned User ID	Document Date	Status
0200001	3300	Furniture Components Ltd.				GREY		8/6/2024	Released
0200002	3000	All Wood Ltd.				BLUE		1/1/2024	Open
0200003	3400	Polymer Products Inc.				GREY		1/1/2024	Open
0200004	2000	Sewing & Stitching Lda.				BLUE		1/1/2024	Open
106001	10000	Fabrikam, Inc.						4/8/2024	Open
106002	20000	First Up Consultants						4/9/2024	Open
106003	40000	Wide World Importers						4/13/2024	Open
106004	30000	Graphic Design Institute						5/1/2024	Open
106005	50000	Nod Publishers						4/11/2024	Open
PU0001	2300	Oriental Production Services				BLUE		8/6/2024	Open
PU0002	2300	Oriental Production Services				BLUE		8/6/2024	Open
PU0003	2300	Oriental Production Services				BLUE		1/1/2024	Open
PU0004	2400	Chihuahua Textiles				BLUE		8/6/2024	Open
PU0005	2000	Sewing & Stitching Lda.				BLUE		1/1/2024	Open

- c. Many new **Production Orders** with **Document Type Order** and **MRP Method Net, Order** and **Production Collection Order** (based on the **MRP Limitations**) without any **Location Code** in the Header or the Component Lines: 1 Production Order per Item.

Document Type	No. #	MRP Method	Item No.	Item Description	Item Description 2	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Order	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS	New	1/1/2024	1/1/2024	1	1	
Order	PI000002	Net	21007001	Lily Blouse	Red,XS	New	7/1/2024	7/1/2024	1	1	
Order	PI000003	Net	21007006	Lily Blouse	Red,XXL	New	7/1/2024	7/1/2024	1	1	
Order	PI000004	Net	21007007	Lily Blouse	Red,3XL	New	1/1/2024	1/1/2024	2	2	
Order	PI000005	Net	21007007	Lily Blouse	Red,3XL	New	7/1/2024	7/1/2024	2	2	
Order	PI000006	Net	21007302	Lily Blouse	Pink,S	New	7/1/2024	7/1/2024	3	3	
Order	PI000007	Net	21007303	Lily Blouse	Pink,M	New	7/1/2024	7/1/2024	4	4	
Order	PI000008	Net	21007304	Lily Blouse	Pink,L	New	7/1/2024	7/1/2024	4	4	
Order	PO000025	Order	22000104	Grace Bomber	White,4	Released	8/6/2024	8/6/2024	10	10	SW009
Order	PO000026	Order	22000106	Grace Bomber	White,6	Released	8/6/2024	8/6/2024	15	15	SW009
Order	PO000027	Order	22000108	Grace Bomber	White,8	Released	8/6/2024	8/6/2024	20	20	SW009
Order	PO000028	Order	22000110	Grace Bomber	White,10	Released	8/6/2024	8/6/2024	25	25	SW009
Order	PO000029	Order	22000112	Grace Bomber	White,12	Released	8/6/2024	8/6/2024	20	20	SW009
Order	PO000030	Order	22000114	Grace Bomber	White,14	Released	8/6/2024	8/6/2024	10	10	SW009
Order	PO000038	Order	22003016	Grace Bomber	Yellow,16	Released	8/6/2024	8/6/2024	10	10	SW009
Order	PO000039	Order	3100062423	Dining Table Artemis	Pale Gold,Oak Black,1...	New	1/1/2024	1/1/2024	4	4	0100001
Order	PO000040	Order	M31000623	Table Top Laminated MDF Board with Lenol...	Pale Gold,110 x 240	New	1/1/2024	1/1/2024	4	4	0100001
Order	PO000041	Production Collecting Order	22000104	Grace Bomber	White,4	New	1/1/2024	1/1/2024	5	5	PCO00001
Order	PO000042	Production Collecting Order	22000106	Grace Bomber	White,6	New	1/1/2024	1/1/2024	9	9	PCO00001
Order	PO000043	Production Collecting Order	22000108	Grace Bomber	White,8	New	1/1/2024	1/1/2024	8	8	PCO00001
Order	PO000044	Production Collecting Order	22000110	Grace Bomber	White,10	New	1/1/2024	1/1/2024	8	8	PCO00001
Order	PO000045	Production Collecting Order	22000112	Grace Bomber	White,12	New	1/1/2024	1/1/2024	2	2	PCO00001
Order	PO000046	Production Collecting Order	22000114	Grace Bomber	White,14	New	1/1/2024	1/1/2024	3	3	PCO00001
Order	PO000047	Production Collecting Order	22003004	Grace Bomber	Yellow,4	New	1/1/2024	1/1/2024	2	2	PCO00002
Order	PO000048	Production Collecting Order	22003006	Grace Bomber	Yellow,6	New	1/1/2024	1/1/2024	4	4	PCO00002

d. Based on the MRP Limitations, also **Production Collecting Orders** have been created.

MRP Limitations: All																				Search	+ New	Manage	Open in Excel								
Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Loca. Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod. Series	Order per Mat.	Order per Loca.	Order per MRP Resp.	Order per VerD. Y-Axis	Order per VerD. X-Axis	Order per Group Master							
Production Collecting Order	2200	PCO per Master 2200/Color	2200					0	0	0	0	0												No							
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0												No							
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0												No							
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0												No							
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0												No							
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0												No							
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES										No							
Purchase	M20	Order for all Fabrics						0	910	0	0	0												No							
Purchase	M21	Order for all Leathers						0	920	0	0	0												No							

Based on these **MRP Limitations**, *three* PCO's have been created

One for 2200 with color 10 White

based on **Limitation Code 2200**

One for 2200 with color 30 Yellow

based on **Limitation Code 2200**

One for M3920

based on **Limitation Code M39***

For all created PCO's the fields of **Location Code Output** and **Location Code Consumption** are empty as well as the **Location Code** on the Lines of the PCO's and could be changed on the individual PCO's which will also have its effect on the Related Production Order and Component Lines.

Production Collecting Orders: All Search + New Delete Edit List Finish Release Close Order Archive Order										
Document No. ↑	Location Code Output	Location Code Consumption	Shipment Date to Production	Receipt Date at Production	Shipment Date from Production	Receipt Date from Production	Start Week Production	Start Date Production	End Date Production	Status
PCO00001										New
PCO00002										New
PCO00003										New
PCOB0001	BLUE	CHINA								New
PCOB0002	BLACK	BLACK								New

Production Collecting Order

PCO00001

Generate based on Sales Lines

Release

Finish

Close Order

Set Qty. to Finish = Outstanding Qty.

Actions

Related

Automate

Fewer options

General

New

Lines

Manage

Line

VarDim

Functions

New Line

Delete Line

Exp. Mat.	Type	No.	Description	Description 2	Location Code Output	Location Code Consumption	Start Date	Quantity	Quantity to Finish	Finished Quantity	Inbound Qty. to Transfer	Inbound Qty. on Transfer	Related Order No.	Releas...	Finishes
→	Matrix	2200	Grace Bomber				1/1/2024	35	0	0	0	0	-	No	No
☐	Item	22000104	Grace Bomber	White,4			1/1/2024	5	0	0	0	0	PO000041	No	No
☐	Item	22000106	Grace Bomber	White,6			1/1/2024	9	0	0	0	0	PO000042	No	No
☐	Item	22000108	Grace Bomber	White,8			1/1/2024	8	0	0	0	0	PO000043	No	No
☐	Item	22000110	Grace Bomber	White,10			1/1/2024	8	0	0	0	0	PO000044	No	No
☐	Item	22000112	Grace Bomber	White,12			1/1/2024	2	0	0	0	0	PO000045	No	No
☐	Item	22000114	Grace Bomber	White,14			1/1/2024	3	0	0	0	0	PO000046	No	No

SCENARIO 4 – MRP ACTIONS WITH NET FASHION - 2

You want to get an overview of the suggestions for Purchase and Production Orders before creating these Orders and everything needs to take place in **Location Code BLUE**.

In addition, you have setup rules for creating Production Collection Orders (PCO's) and Purchase Orders in the MRP Limitations.

In the **MRP Actions**, run the **MRP By Sales Line** for the Sales Order *0100001..0100002* and use the **MRP Setup NET FASHION**.

Change in the **MRP Setup NET FASHION** the field **Assign Location Code** to **BLUE**.

Run the MRP with following settings:

The result would be the same as in [Scenario 3 – MRP Actions with NET FASHION - 1](#) with only one difference: All Purchase Orders, Production Collection Order Lines, Production Orders and their Component Lines will have **Location Code BLUE**.

RESULT

- a. You see the MRP Actions: one line per Item and the **Assign Location Code** is **BLUE** for all Lines.

Low-Level Code T	Type T	Item No. T	Item Description	Item Description 2	Approve	Action	Calc. Base Chg.	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Insu. Inv.	Unit of Measure Code	Existing Order No.	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Rep. Buy View
1	Production Order	21002001	Lily Blouse	Royal Blue,XS	✓	New Order			0.00	1.00	1.00	0.00		PCS				BLUE	
1	Production Order	21007001	Lily Blouse	Red,XS	✓	New Order			0.00	1.00	1.00	0.00		PCS				BLUE	
1	Production Order	21007006	Lily Blouse	Red,XXL	✓	New Order			0.00	1.00	1.00	0.00		PCS				BLUE	
1	Production Order	21007007	Lily Blouse	Red,3XL	✓	New Order			0.00	2.00	2.00	0.00		PCS				BLUE	
1	Production Order	21007007	Lily Blouse	Red,3XL	✓	New Order			0.00	2.00	2.00	0.00		PCS				BLUE	
1	Production Order	21007302	Lily Blouse	Pink,5	✓	New Order			0.00	3.00	3.00	0.00		PCS				BLUE	
1	Production Order	21007303	Lily Blouse	Pink,M	✓	New Order			0.00	4.00	4.00	0.00		PCS				BLUE	
1	Production Order	21007304	Lily Blouse	Pink,L	✓	New Order			0.00	4.00	4.00	0.00		PCS				BLUE	
1	Production Order	21007305	Lily Blouse	Pink,XL	✓	New Order			0.00	1.00	1.00	0.00		PCS				BLUE	
1	Production Order	21007305	Lily Blouse	Pink,XL	✓	New Order			0.00	10.00	10.00	0.00		PCS				BLUE	
1	Production Order	22000104	Grace Bomber	White,4	✓	New Order			0.00	5.00	5.00	0.00		PCS				BLUE	
1	Production Order	22000106	Grace Bomber	White,6	✓	New Order			0.00	9.00	9.00	0.00		PCS				BLUE	
1	Production Order	22000108	Grace Bomber	White,8	✓	New Order			0.00	8.00	8.00	0.00		PCS				BLUE	
1	Production Order	22000110	Grace Bomber	White,10	✓	New Order			0.00	8.00	8.00	0.00		PCS				BLUE	
1	Production Order	22000112	Grace Bomber	White,12	✓	New Order			0.00	2.00	2.00	0.00		PCS				BLUE	
1	Production Order	22000114	Grace Bomber	White,14	✓	New Order			0.00	3.00	3.00	0.00		PCS				BLUE	
1	Production Order	22003004	Grace Bomber	Yellow,4	✓	New Order			0.00	2.00	2.00	0.00		PCS				BLUE	
1	Production Order	22003006	Grace Bomber	Yellow,6	✓	New Order			0.00	4.00	4.00	0.00		PCS				BLUE	

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking **Actions, Post Lines, Post All Approve**, you can see the following results.

b. New and changed **Purchase Orders**, but all got **Location Code BLUE**.

Purchase Orders: All ▾ 🔍 📄 + New 🗑️ Delete Home ▾ 📄 Release ▾ 📄 Post... ▾ Print/Send ▾ Order ▾ More options									
No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorizati... No.	Order Type	Collection No.	Location Code	Assigned User ID	Document Date	Status
0200001	3300	Furniture Components Ltd.				GREY		8/6/2024	Released
0200002	3000	All Wood Ltd.				BLUE		1/1/2024	Open
0200003	3400	Polymer Products Inc.				BLUE		1/1/2024	Open
0200004	2000	Sewing & Stitching Lda.				BLUE		1/1/2024	Open
106001	10000	Fabrikam, Inc.						4/8/2024	Open
106002	20000	First Up Consultants						4/9/2024	Open
106003	40000	Wide World Importers						4/13/2024	Open
106004	30000	Graphic Design Institute						5/1/2024	Open
106005	50000	Nod Publishers						4/11/2024	Open
PU0001	2300	Oriental Production Services				BLUE		8/6/2024	Open
PU0002	2300	Oriental Production Services				BLUE		8/6/2024	Open
PU0003	2300	Oriental Production Services				BLUE		1/1/2024	Open
PU0004	2400	Chihuahua Textiles				BLUE		8/6/2024	Open
PU0005	2000	Sewing & Stitching Lda.				BLUE		1/1/2024	Open

c. Many new **Production Orders** with **Document Type Order** and **MRP Method Net, Order** or **Production Collection Order** (based on the MRP Limitations) with **Location Code BLUE** in the Header and Component Lines: 1 Production Order per Item.

Production Orders: All ▾ 🔍 📄 + New 🗑️ Delete 📄 Finish 📄 Job Card... 📄 Release Prod. Order 📄 Archive Order 📄 Check Availability 📄 Inventory Profile More options										
Document Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)
Order	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS	New	1/1/2024	1/1/2024	1	1
Order	PI000002	Net	21007001	Lily Blouse	Red,XS	New	7/1/2024	7/1/2024	1	1
Order	PI000003	Net	21007006	Lily Blouse	Red,XL	New	7/1/2024	7/1/2024	1	1
Order	PI000004	Net	21007007	Lily Blouse	Red,3XL	New	1/1/2024	1/1/2024	2	2
Order	PI000005	Net	21007007	Lily Blouse	Red,3XL	New	7/1/2024	7/1/2024	2	2
Order	PI000006	Net	21007302	Lily Blouse	Pink,S	New	7/1/2024	7/1/2024	3	3
Order	PI000007	Net	21007303	Lily Blouse	Pink,M	New	7/1/2024	7/1/2024	4	4
Order	PI000008	Net	21007304	Lily Blouse	Pink,L	New	7/1/2024	7/1/2024	4	4
Order	PO000025	Order	22000104	Grace Bomber	White,4	Released	8/6/2024	8/6/2024	10	10
Order	PO000026	Order	22000106	Grace Bomber	White,6	Released	8/6/2024	8/6/2024	15	15
Order	PO000027	Order	22000108	Grace Bomber	White,8	Released	8/6/2024	8/6/2024	20	20
Order	PO000028	Order	22000110	Grace Bomber	White,10	Released	8/6/2024	8/6/2024	25	25
Order	PO000029	Order	22000112	Grace Bomber	White,12	Released	8/6/2024	8/6/2024	20	20
Order	PO000030	Order	22000114	Grace Bomber	White,14	Released	8/6/2024	8/6/2024	10	10
Order	PO000038	Order	22003016	Grace Bomber	Yellow,16	Released	8/6/2024	8/6/2024	10	10
Order	PO000039	Order	3100062423	Dining Table Artemis	Pale Gold Oak Black,1...	New	1/1/2024	1/1/2024	4	4
Order	PO000040	Order	M31000623	Table Top Laminated MDF Board with Lenol...	Pale Gold,110 x 240	New	1/1/2024	1/1/2024	4	4
Order	PO000041	Production Collecting Order	22000104	Grace Bomber	White,4	New	1/1/2024	1/1/2024	5	5
Order	PO000042	Production Collecting Order	22000106	Grace Bomber	White,6	New	1/1/2024	1/1/2024	9	9
Order	PO000043	Production Collecting Order	22000108	Grace Bomber	White,8	New	1/1/2024	1/1/2024	8	8
Order	PO000044	Production Collecting Order	22000110	Grace Bomber	White,10	New	1/1/2024	1/1/2024	8	8
Order	PO000045	Production Collecting Order	22000112	Grace Bomber	White,12	New	1/1/2024	1/1/2024	2	2
Order	PO000046	Production Collecting Order	22000114	Grace Bomber	White,14	New	1/1/2024	1/1/2024	3	3
Order	PO000047	Production Collecting Order	22003004	Grace Bomber	Yellow,4	New	1/1/2024	1/1/2024	2	2
Order	PO000048	Production Collecting Order	22003006	Grace Bomber	Yellow,6	New	1/1/2024	1/1/2024	4	4

d. Based on the MRP Limitations, also **Production Collecting Orders** have been created.

Type	Limitation Code	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Loca. Code	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod. Series	Order per Mat.	Order per Loca.	Order per MRP Req.	Order per VarD. 1-Axis	Order per VarD. 2-Axis	Order per Group Master
Production Collecting Order	2200	PCO per Master 2200/Color	2200					0	0	0	0	0												No
Production Collecting Order	3000	PCO per Master Chair	30*					0	0	0	0	0												No
Production Collecting Order	M31	PCO per Master Table Top	M31*					0	0	0	0	0												No
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*					0	0	0	0	0												No
Production Collecting Order	M33	PCO all Cabinet Materials	M33*					0	0	0	0	0												No
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*					0	0	0	0	0												No
Production Collecting Order	SHOE	PCO all Shoes						0	0	0	0	0		SHOES										No
Purchase	M20	Order for all Fabrics						0	910	0	0	0												No
Purchase	M21	Order for all Leathers						0	920	0	0	0												No

Based on these **MRP Limitations**, *three* PCO's have been created

One for 2200 with color 10 White

based on **Limitation Code 2200**

One for 2200 with color 30 Yellow

based on **Limitation Code 2200**

One for M3920

based on **Limitation Code M39***

For all created PCO's the fields of **Location Code Output** and **Location Code Consumption** are still empty when there are matrices on the Lines because we created them per Order and not per Location, but on the PCO Lines, the **Location Code Output** and **Location Code Consumption** will be filled with the **Assign Location Code** of the Action Lines of the MRP.

Document No. ↑	Location Code Output	Location Code Consumption	Shipment Date to Production	Receipt Date at Production	Shipment Date from Production	Receipt Date from Production	Start Week Production	Start Date Production	End Date Production	Status	In-Tr Code
PCO00001										New	
PCO00002										New	
PCO00003	BLUE	BLUE								New	
PCOB0001	BLUE	CHINA								New	
PCOB0002	BLACK	BLACK								New	

Doc. No.	Type	No.	Description	Description 2	Location Code Output	Location Code Consumption	Start Date	Quantity	Quantity to Finish	Finished Quantity	Inbound Qty. to Transfer	Inbound Qty. on Transfer	Related Order No.	Release	Finished
→	Matrix	2200	Grace Bomber		BLUE	BLUE	1/1/2024	35	0	0	0	0	PCO000041	No	No
	Item	22000104	Grace Bomber	White.4	BLUE	BLUE	1/1/2024	5	0	0	0	0	PCO000042	No	No
	Item	22000106	Grace Bomber	White.6	BLUE	BLUE	1/1/2024	9	0	0	0	0	PCO000043	No	No
	Item	22000108	Grace Bomber	White.8	BLUE	BLUE	1/1/2024	8	0	0	0	0	PCO000044	No	No
	Item	22000110	Grace Bomber	White.10	BLUE	BLUE	1/1/2024	8	0	0	0	0	PCO000045	No	No
	Item	22000112	Grace Bomber	White.12	BLUE	BLUE	1/1/2024	2	0	0	0	0	PCO000046	No	No
	Item	22000114	Grace Bomber	White.14	BLUE	BLUE	1/1/2024	3	0	0	0	0			

SCENARIO 5 – MRP ACTIONS WITH NET FASHION - 3

You want to get an overview of the suggestions for Purchase and Production Orders before creating these Orders and everything needs to take place in the Location based on the shipping Location of the Sales Orders.

In addition, you have setup rules for creating Production Collection Orders (PCO's) and Purchase Orders in the MRP Limitations.

For this specific scenario we also added in Sales Order **0100002** a Matrix for 2200:

- Sales Order 0100002 - No. 2200 - Grace Bomber -											
Notifications: 7 This quantity for item 22000114 is available in week... Default Dimension Priorities are not defined for So... This quantity for item 22000112 is available in week... This quantity for item 22000110 is available in week... This quantity for item 22000108 is available in week...											
Search Edit List Matrix Inventory Profile Actions Related Fewer options											
Variant 1	Variant Description	Line Quantity	4	6	8	10	12	14	16		
→ 01	WeiB	12	1 [0]	2 [0]	3 [0]	3 [0]	2 [0]	1 [0]			
30	Gelb		[0]	[0]	[0]	[0]	[0]	[0]	[1]		

In the **MRP Actions**, run the **MRP By Sales Line** for the Sales Order **0100001..0100002** and use the **MRP Setup NET FASHION**.

Change in the **MRP Setup NET FASHION** the field **Run by Multiple Locations** to  and **Filter Location Code** to **BLUE|SHOEPROD**.

MRP Setup

NET FASHION

Location Management

Run by Multiple Locations 

Filter Location Code BLUE|SHOEPROD

Assign Location Code

Run the MRP with following settings:

MRP Actions

Journal Batch Name

Filter Posted

Filter Type

Run MRP

MRP Setup

Manage

Run MRP

Post Current Line

MRP Setup

Item

Master

Inventory Profile

MRP by Sales Line

Filter: Setup

Setup NET FASHION

Filter: Sales Lines

Document Type Order

Document No. 0100001..0100002

Production Series

RESULT

- You see the MRP Actions: several lines per Item and the **Assign Location Code** is based on the **Location Code** of the original Sales Lines. Even the quantities could be different as before, because

also the Inventory is now checked based on that **Location Code**.

Low-Level Code T	Type T	Item No. T	Item Description	Item Description 2	Approve	Action	Calc. Base Ch...	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Ins...	Unit of Measure Code	Existing Order No.	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-From Vendor No.
1	Production Order	22000104	Grace Bomber	White.4		New Order			0.00	5.00	5.00	0.00		PCS				BLUE	
1	Production Order	22000104	Grace Bomber	White.4		New Order			0.00	1.00	1.00	0.00		PCS				SHOEPROD	
1	Production Order	22000106	Grace Bomber	White.6		New Order			0.00	9.00	9.00	0.00		PCS				BLUE	
1	Production Order	22000106	Grace Bomber	White.6		New Order			0.00	2.00	2.00	0.00		PCS				SHOEPROD	
1	Production Order	22000108	Grace Bomber	White.8		New Order			0.00	8.00	8.00	0.00		PCS				BLUE	
1	Production Order	22000108	Grace Bomber	White.8		New Order			0.00	3.00	3.00	0.00		PCS				SHOEPROD	
1	Production Order	22000110	Grace Bomber	White.10		New Order			0.00	8.00	8.00	0.00		PCS				BLUE	
1	Production Order	22000110	Grace Bomber	White.10		New Order			0.00	3.00	3.00	0.00		PCS				SHOEPROD	

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking **Actions, Post Lines, Post All Approved**, you can see the following results.

Low-Level Code T	Type T	Item No. T	Item Description	Item Description 2	Approve	Action	Calc. Base Ch...	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Ins...	Unit of Measure Code	Existing Order No.	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-From Vendor No.
1	Production Order	22000104	Grace Bomber	White.4		New Order			0.00	5.00	5.00	0.00		PCS		PC000041	PC000001	BLUE	
1	Production Order	22000104	Grace Bomber	White.4		New Order			0.00	1.00	1.00	0.00		PCS		PC000047	PC000001	SHOEPROD	
1	Production Order	22000106	Grace Bomber	White.6		New Order			0.00	9.00	9.00	0.00		PCS		PC000042	PC000001	BLUE	
1	Production Order	22000106	Grace Bomber	White.6		New Order			0.00	2.00	2.00	0.00		PCS		PC000048	PC000001	SHOEPROD	
1	Production Order	22000108	Grace Bomber	White.8		New Order			0.00	8.00	8.00	0.00		PCS		PC000043	PC000001	BLUE	
1	Production Order	22000108	Grace Bomber	White.8		New Order			0.00	3.00	3.00	0.00		PCS		PC000049	PC000001	SHOEPROD	
1	Production Order	22000110	Grace Bomber	White.10		New Order			0.00	8.00	8.00	0.00		PCS		PC000044	PC000001	BLUE	
1	Production Order	22000110	Grace Bomber	White.10		New Order			0.00	3.00	3.00	0.00		PCS		PC000050	PC000001	SHOEPROD	

Low-Level Code T	Type T	Item No. T	Item Description	Item Description 2	Approve	Action	Calc. Base Ch...	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Ins...	Unit of Measure Code	Existing Order No.	Replacement Order No.	Replacement Prod. Collect. Order No.	Assign Location Code	Replacement Buy-From Vendor No.
4	Purchase Order	M201070	Fabric 70% Polyamide, 30% ...	Red		New Order			0.00	17.60	17.60	0.00		M		02000007		BLUE	
4	Purchase Order	M201073	Fabric 70% Polyamide, 30% ...	Pink		New Order			0.00	10.90	10.90	0.00		M		02000006		SHOEPROD	
4	Purchase Order	M203001	Jaguar Print 72% Polyamide...	White		New Order			0.00	63.40	63.40	0.00		M		02000007		BLUE	
4	Purchase Order	M203001	Jaguar Print 72% Polyamide...	White		New Order			0.00	22.80	22.80	0.00		M		02000006		SHOEPROD	
4	Purchase Order	M203030	Jaguar Print 72% Polyamide...	Yellow		New Order			0.00	27.40	27.40	0.00		M		02000007		BLUE	
4	Purchase Order	M210020	Thread 100% Cotton	Black		Delete Order			2.00	0.00	-2.00	0.00		SPOOL	PU0005	PU0005		BLUE	
4	Purchase Order	M210020	Thread 100% Cotton	Black		New Order			0.00	0.06	0.06	0.00		SPOOL		02000004		SHOEPROD	
4	Purchase Order	M210025	Thread 100% Cotton	Blue		Delete Order			2.00	0.00	-2.00	0.00		SPOOL	PU0005	PU0005		BLUE	

b. **New Purchase Orders.** The **Location Code** came from the **Location Code** of the Sales Lines.

No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorizati... No.	Order Type	Collection No.	Location Code	Assigned User ID	Document Date	Status
0200001	3300	Furniture Components Ltd.				GREY		8/6/2024	Released
0200002	2300	Oriental Production Services				SHOEPROD		1/1/2024	Open
0200003	3000	All Wood Ltd.				BLUE		1/1/2024	Open
0200004	2000	Sewing & Stitching Lda.				SHOEPROD		1/1/2024	Open
0200005	3400	Polymer Products Inc.				BLUE		1/1/2024	Open
0200006	2000	Sewing & Stitching Lda.				SHOEPROD		1/1/2024	Open
0200007	2000	Sewing & Stitching Lda.				BLUE		1/1/2024	Open

c. Many new **Production Orders** with **Document Type Order** and **MRP Method Net, Order, Production Collection Order** (based on the MRP Limitations) in which the **Location Code** in the Header will be based on the Location Code of the Sales Lines: 1 Production Order per Item/Location. The Location

Code on the Component Lines will also be filled with that same Location Code!

Document Type	No. ↑	MRP Method	Item No.	Item Description	Item Description 2	Status	Start Date	End Date	Quantity to Produce	Outstanding Quantity (Base)	Initiating Order No. Start Level
Order	PI000001	Net	21002001	Lily Blouse	Royal Blue,XS	New	1/1/2024	1/1/2024	1	1	
Order	PI000002	Net	21002002	Lily Blouse	Royal Blue,S	New	1/1/2024	1/1/2024	2	2	
Order	PI000003	Net	21002003	Lily Blouse	Royal Blue,M	New	1/1/2024	1/1/2024	4	4	
Order	PI000004	Net	21002004	Lily Blouse	Royal Blue,L	New	1/1/2024	1/1/2024	4	4	
Order	PI000005	Net	21002005	Lily Blouse	Royal Blue,XL	New	1/1/2024	1/1/2024	2	2	
Order	PI000006	Net	21007003	Lily Blouse	Red,M	New	1/1/2024	1/1/2024	1	1	
Order	PI000007	Net	21007004	Lily Blouse	Red,L	New	1/1/2024	1/1/2024	1	1	
Order	PI000008	Net	21007005	Lily Blouse	Red,XL	New	1/1/2024	1/1/2024	2	2	
Order	PO000032	Order	22003004	Grace Bomber	Yellow,4	Released	8/6/2024	8/6/2024	15	15	SW009
Order	PO000033	Order	22003006	Grace Bomber	Yellow,6	Released	8/6/2024	8/6/2024	15	15	SW009
Order	PO000034	Order	22003008	Grace Bomber	Yellow,8	Released	8/6/2024	8/6/2024	20	20	SW009
Order	PO000035	Order	22003010	Grace Bomber	Yellow,10	Released	8/6/2024	8/6/2024	25	25	SW009
Order	PO000036	Order	22003012	Grace Bomber	Yellow,12	Released	8/6/2024	8/6/2024	20	20	SW009
Order	PO000037	Order	22003014	Grace Bomber	Yellow,14	Released	8/6/2024	8/6/2024	15	15	SW009
Order	PO000038	Production Coll.	22001006	Grace Bomber	White,6	New	1/1/2024	1/1/2024	9	9	PCO00001
Order	PO000042	Production Coll.	22001008	Grace Bomber	White,8	New	1/1/2024	1/1/2024	8	8	PCO000001
Order	PO000043	Production Coll.	22001100	Grace Bomber	White,10	New	1/1/2024	1/1/2024	8	8	PCO000001
Order	PO000044	Production Coll.	22001102	Grace Bomber	White,12	New	1/1/2024	1/1/2024	2	2	PCO000001
Order	PO000045	Production Coll.	22001104	Grace Bomber	White,14	New	1/1/2024	1/1/2024	3	3	PCO000001
Order	PO000046	Production Coll.	22001004	Grace Bomber	White,4	New	1/1/2024	1/1/2024	1	1	PCO000001
Order	PO000047	Production Coll.	22001006	Grace Bomber	White,6	New	1/1/2024	1/1/2024	2	2	PCO000001
Order	PO000048	Production Coll.	22001008	Grace Bomber	White,8	New	1/1/2024	1/1/2024	3	3	PCO000001
Order	PO000049	Production Coll.	22001100	Grace Bomber	White,10	New	1/1/2024	1/1/2024	3	3	PCO000001
Order	PO000050	Production Coll.	22001102	Grace Bomber	White,12	New	1/1/2024	1/1/2024	1	1	PCO000001
Order	PO000051	Production Coll.	22001104	Grace Bomber	White,14	New	1/1/2024	1/1/2024	2	2	PCO000002
Order	PO000052	Production Coll.	22003004	Grace Bomber	Yellow,4	New	1/1/2024	1/1/2024			

d. Based on the MRP Limitations, also **Production Collecting Orders** have been created.

Type ↑	Limitation Code ↑	Description	Filter Master No.	Filter Item No.	Filter Group Master	Filter Vendor	Filter Locs.	Design Filter	Item Group Filter	Gender Filter	Item Statistics Group 4 Filter	Item Statistics Group 5 Filter	Filter Item Code	Brand Filter	Season Filter	Filter Production Series	Order per Avail. Date	Order per Prod. Series	Order per Max.	Order per Locs.	Order per MRP Resp.	Order per VerCL Y-Axis	Order per VerCL X-Axis	Order per Group Master
Production Collecting Order	2200	PCO per Master 2200/Color	2200						0	0	0	0	0											No
Production Collecting Order	3000	PCO per Master Chair	30*						0	0	0	0	0											No
Production Collecting Order	M31	PCO per Master Table Top	M31*						0	0	0	0	0											No
Production Collecting Order	M32	PCO per Master Sofa Parts	M32*						0	0	0	0	0											No
Production Collecting Order	M33	PCO all Cabinet Materials	M33*						0	0	0	0	0											No
Production Collecting Order	M39*	PCO per Master Furniture Mat.	M39*						0	0	0	0	0											No
Production Collecting Order	SHOE	PCO all Shoes							0	0	0	0	0		SHOES									No
Purchase	M20	Order for all Fabrics							0	910	0	0	0											No
Purchase	M21	Order for all Leathers							0	920	0	0	0											No

Based on these **MRP Limitations**, *three* PCO's have been created

One for 2200 with color 10 White

based on **Limitation Code 2200**

One for 2200 with color 30 Yellow

based on **Limitation Code 2200**

One for M3920

based on **Limitation Code M39***

For all created PCO's the fields of **Location Code Output** and **Location Code Consumption** are empty, but the **Location Code Output** and **Location Code Consumption** on the Lines will be based on the Location Code of the Sales Lines. This means, that in the same PCO, you could get several Matrix Lines for the same Master but with various Locations.

Document No. ↑	Location Code Output	Location Code Consumption	Shipment Date to Production	Receipt Date to Production	Shipment Date from Production	Receipt Date from Production	Start Week Production	Start Date Production	End Date Production	Status	In-Tr Code
PCO00001										New	
PCO00002										New	
PCO00003	BLUE	BLUE								New	
PCOB0001	BLUE	CHINA								New	
PCOB0002	BLACK	BLACK								New	

Lines Manage Line VarDim Functions 🔍 🔗															
➕ New Line ✖ Delete Line 🔗															
Exp. Mat...	Type	No.	Description	Description 2	Location Code Output	Location Code Consumption	Start Date	Quantity	Quantity to Finish	Finished Quantity	Inbound Qty. to Transfer	Inbound Qty. on Transfer	Related Order No.	Release...	Finisher
→ ☒	Matrix	2200	Grace Bomber		BLUE		1/1/2024	35	0	0	0	0	...	No	No
☐	Item	22000104	Grace Bomber	White,4	BLUE	BLUE	1/1/2024	5	0	0	0	0	PO000041	No	No
☐	Item	22000106	Grace Bomber	White,6	BLUE	BLUE	1/1/2024	9	0	0	0	0	PO000042	No	No
☐	Item	22000108	Grace Bomber	White,8	BLUE	BLUE	1/1/2024	8	0	0	0	0	PO000043	No	No
☐	Item	22000110	Grace Bomber	White,10	BLUE	BLUE	1/1/2024	8	0	0	0	0	PO000044	No	No
☐	Item	22000112	Grace Bomber	White,12	BLUE	BLUE	1/1/2024	2	0	0	0	0	PO000045	No	No
☐	Item	22000114	Grace Bomber	White,14	BLUE	BLUE	1/1/2024	3	0	0	0	0	PO000046	No	No
☒	Matrix	2200	Grace Bomber		SHOEPROD		1/1/2024	10	0	0	0	0	...	No	No
☐	Item	22000104	Grace Bomber	White,4	SHOEPROD	SHOEPROD	1/1/2024	1	0	0	0	0	PO000047	No	No
☐	Item	22000106	Grace Bomber	White,6	SHOEPROD	SHOEPROD	1/1/2024	2	0	0	0	0	PO000048	No	No
☐	Item	22000108	Grace Bomber	White,8	SHOEPROD	SHOEPROD	1/1/2024	3	0	0	0	0	PO000049	No	No
☐	Item	22000110	Grace Bomber	White,10	SHOEPROD	SHOEPROD	1/1/2024	3	0	0	0	0	PO000050	No	No
☐	Item	22000114	Grace Bomber	White,14	SHOEPROD	SHOEPROD	1/1/2024	1	0	0	0	0	PO000051	No	No

SCENARIO 6 – MRP ACTIONS WITH TRANSFER

You are a company with three shops: **S_BRISTOL**, **S_LONDON**, **S_MANCHES**, and have setup Reorder Point and Maximum Inventory in the SKUs of some Items based on these shops. To fulfil the demand for these Shops they will be delivered via a Transfer Order coming from Location **BLUE**.

In the **MRP Actions**, run the **MRP By Items** for the Master **2310** and use the **MRP Setup TRANSFER**, in which we have:

Location Management

Run by Multiple Locations ☒

Assign Location Code

Filter Location Code

S_BRISTOL|S_MANCHES|S_LONDON|2030|BLUE|CW

MRP Actions

Journal Batch Name

Filter Posted

Filter Type

Run MRP

MRP Setup

Manage

Run MRP

Post Current Line

MRP Setup

Item

Master

Inventory Profile

MRP by Item

Filter: Setup

Setup

Filter: Sales Lines (Filter for Production Series & Related Ord... 0 filters set)

Filter: Item

Item Type

No.

Master No.

Product Family

2310

RESULT

- You see the MRP Actions: several lines per Item and the **Assign Location Code** is based on the **Location Code** of the SKUs and the quantities are related to the fields in the SKUs. You are not only seeing suggestions for Transfer Orders, but also for Purchase Orders to fulfil the demand in the Locations from which the Transfers should take place.

Low-Level Code 1	Type 1	Item No. 1	Item Description	Item Description 2	Approve	Action	Calc. Base Ch...	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Ins...	Unit of Measure	Existing Order No.	Replacem...	Replacem...	Assign Location Code	Replacement Buy-From Vendor No.
2	Purchase Order	23106036	Freya Dress	Forest Green,36	✓	New Order			0.00	5.00	5.00	0.00		PCS				BLUE	2300
2	Purchase Order	23106038	Freya Dress	Forest Green,38	✓	New Order			0.00	9.00	9.00	0.00		PCS				BLUE	2300
2	Purchase Order	23106040	Freya Dress	Forest Green,40	✓	New Order			0.00	9.00	9.00	0.00		PCS				BLUE	2300
2	Purchase Order	23106042	Freya Dress	Forest Green,42	✓	New Order			0.00	9.00	9.00	0.00		PCS				BLUE	2300
2	Purchase Order	23106044	Freya Dress	Forest Green,44	✓	New Order			0.00	8.00	8.00	0.00		PCS				BLUE	2300
2	Purchase Order	23106046	Freya Dress	Forest Green,46	✓	New Order			0.00	8.00	8.00	0.00		PCS				BLUE	2300
2	Purchase Order	23106048	Freya Dress	Forest Green,48	✓	New Order			0.00	6.00	6.00	0.00		PCS				BLUE	2300
2	Purchase Order	23106050	Freya Dress	Forest Green,50	✓	New Order			0.00	6.00	6.00	0.00		PCS				BLUE	2300
2	Purchase Order	23109948	Freya Dress	Black,48	✓	New Order			0.00	5.00	5.00	0.00		PCS				BLUE	2300
2	Purchase Order	23109950	Freya Dress	Black,50	✓	New Order			0.00	5.00	5.00	0.00		PCS				BLUE	2300
2	Purchase Order	23109952	Freya Dress	Black,52	✓	New Order			0.00	5.00	5.00	0.00		PCS				BLUE	2300
1	Transfer Order	23106036	Freya Dress	Forest Green,36	✓	New Order			0.00	0.00	0.00	4.00	✓	PCS				S_LONDON	2300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	✓	New Order			0.00	0.00	0.00	3.00	✓	PCS				S_MANCH...	2300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	✓	New Order			0.00	0.00	0.00	4.00	✓	PCS				S_LONDON	2300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	✓	New Order			0.00	0.00	0.00	3.00	✓	PCS				S_MANCH...	2300
1	Transfer Order	23106040	Freya Dress	Forest Green,40	✓	New Order			0.00	0.00	0.00	4.00	✓	PCS				S_LONDON	2300
1	Transfer Order	23106040	Freya Dress	Forest Green,40	✓	New Order			0.00	0.00	0.00	3.00	✓	PCS				S_MANCH...	2300
1	Transfer Order	23106042	Freya Dress	Forest Green,42	✓	New Order			0.00	3.00	3.00	4.00	✓	PCS				S_LONDON	2300
1	Transfer Order	23106042	Freya Dress	Forest Green,42	✓	New Order			0.00	0.00	0.00	3.00	✓	PCS				S_MANCH...	2300

You can change the **Replacement Quantity** and other fields before posting (Carry Out Action Message) and after clicking **Actions, Post Lines, Post All Approved**, you can see the following results.

Low-Level Code 1	Type 1	Item No. 1	Item Description	Item Description 2	Approve	Action	Calc. Base Ch...	Posted	Existing Quantity	Replacement Quantity	Difference	Calculated Quantity	Insta...	Unit of Measure Code	Existing Order No.	Replacement Order No.	Assign Location Code	Replacement Buy-from Vendor No.
2	Purchase Order	23106038	Freya Dress	Forest Green,36	☒	New Order	☐	☐	0.00	5.00	5.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23106038	Freya Dress	Forest Green,38	☒	New Order	☐	☐	0.00	9.00	9.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23106040	Freya Dress	Forest Green,40	☒	New Order	☐	☐	0.00	9.00	9.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23106042	Freya Dress	Forest Green,42	☒	New Order	☐	☐	0.00	9.00	9.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23106044	Freya Dress	Forest Green,44	☒	New Order	☐	☐	0.00	8.00	8.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23106046	Freya Dress	Forest Green,46	☒	New Order	☐	☐	0.00	8.00	8.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23106048	Freya Dress	Forest Green,48	☒	New Order	☐	☐	0.00	6.00	6.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23106050	Freya Dress	Forest Green,50	☒	New Order	☐	☐	0.00	6.00	6.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23109948	Freya Dress	Black,48	☒	New Order	☐	☐	0.00	5.00	5.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23109950	Freya Dress	Black,50	☒	New Order	☐	☐	0.00	5.00	5.00	0.00	☐	PCS	--	PU0003	BLUE	2300
2	Purchase Order	23109952	Freya Dress	Black,52	☒	New Order	☐	☐	0.00	5.00	5.00	0.00	☐	PCS	--	PU0003	BLUE	2300
1	Transfer Order	23106036	Freya Dress	Forest Green,36	☒	New Order	☐	☐	0.00	0.00	0.00	4.00	☒	PCS	--	1004	S_LONDON	3300
1	Transfer Order	23106036	Freya Dress	Forest Green,36	☒	New Order	☐	☐	0.00	0.00	0.00	3.00	☒	PCS	--	1005	S_MANCH...	3300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	☒	New Order	☐	☐	0.00	0.00	0.00	4.00	☒	PCS	--	1004	S_LONDON	3300
1	Transfer Order	23106038	Freya Dress	Forest Green,38	☒	New Order	☐	☐	0.00	0.00	0.00	3.00	☒	PCS	--	1005	S_MANCH...	3300
1	Transfer Order	23106040	Freya Dress	Forest Green,40	☒	New Order	☐	☐	0.00	0.00	0.00	4.00	☒	PCS	--	1004	S_LONDON	3300
1	Transfer Order	23106040	Freya Dress	Forest Green,40	☒	New Order	☐	☐	0.00	0.00	0.00	3.00	☒	PCS	--	1005	S_MANCH...	3300
1	Transfer Order	23106042	Freya Dress	Forest Green,42	☒	New Order	☐	☐	0.00	3.00	3.00	4.00	☒	PCS	--	1004	S_LONDON	3300
1	Transfer Order	23106042	Freya Dress	Forest Green,42	☒	New Order	☐	☐	0.00	0.00	0.00	3.00	☒	PCS	--	1005	S_MANCH...	3300

b. One changed **Purchase Order**. The **Location Code** came from the **Location Code** of the SKUs.

No. ↑	Buy-from Vendor No.	Buy-from Vendor Name	Vendor Authorizati... No.	Order Type	Collection No.	Location Code	Assigned User ID	Document Date	Status
PU0002	2300	Oriental Production Services				BLUE		8/6/2024	Open
PU0003	2300	Oriental Production Services				BLUE		1/1/2024	Open
PU0004	2400	Chihuahua Textiles				BLUE		8/6/2024	Open
PU0005	2000	Sewing & Stitching Lda.				BLUE		8/6/2024	Open
PU0001	2000	Sewing & Stitching Lda.				ORANGE		8/6/2024	Released

c. In this scenario, no **Production Orders** or **PCOs** have been created.

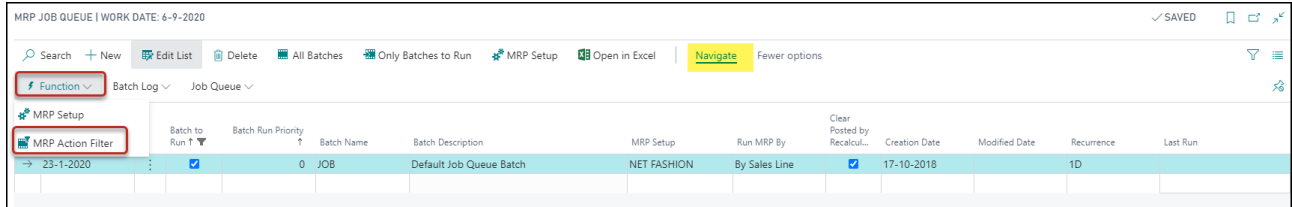
d. Three new **Transfer Orders** have been created: 1 for every **Transfer-To Code**:

No. ↑	Transfer-from Code	Transfer-to Code	In-Transit Code	Status
1001	MAIN	WEST	OWN LOG.	Open
1002	WEST	EAST	OWN LOG.	Open
1003	EAST	MAIN	OWN LOG.	Open
1004	BLUE	S_LONDON	OWNLOG	Open
1005	BLUE	S_MANCHEST	OWNLOG	Open
1006	BLUE	S_BRISTOL	OWNLOG	Open
T0001	BLUE	ORANGE	OWNLOG	Open
T0002	BLUE	INDIA	OUTLOG	Open

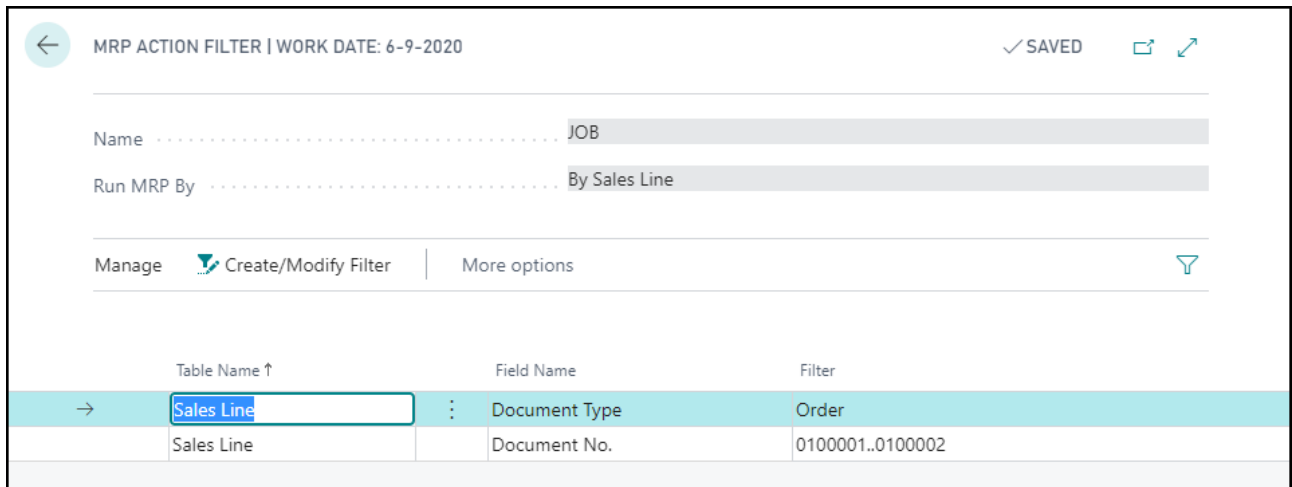
SCENARIO 7 – MRP JOB QUEUE

You want the MRP Calculation to run every day automatically.

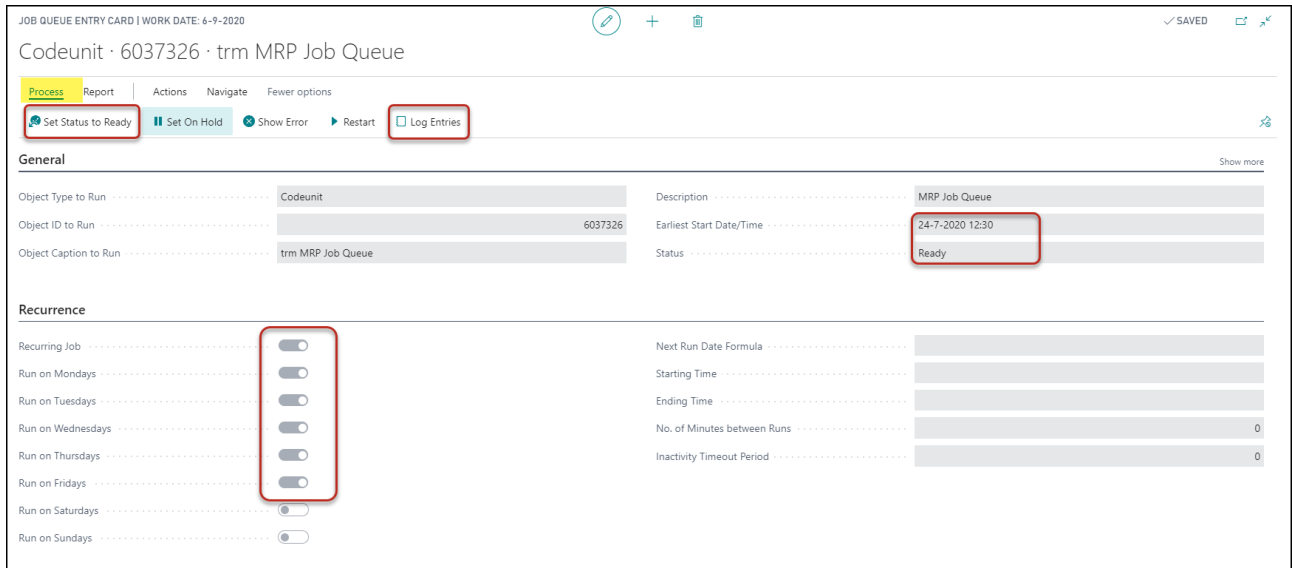
Therefore, you created a special **MRP Job Queue** and a **Job Queue Entry**:



And entered the **MRP Action Filter**:



The **Next Run** date should be set to the current day to see any result for this Scenario.



The **Earliest Start Date/Time** should be set to current day and a time close in the past.

Do not forget to click **Process**, **Set Status to Ready**.

Before you know it, the MRP Calculation has been run already automatically, and in the **MRP Actions** with **Journal Batch Name JOB**, you will see all the suggestions, without any manual interference.

Via **Process**, **Log Entries** you can see:

Status	User ID	Description	Object Type to Run	Object ID to Run	Object Caption to Run	Parameter String	Start Date/Time 4	Duration	Error Message
Success	CORNATOR\KBI	MRP Job Queue	Codeunit	6037326	trm MRP Job Queue		24-7-2020 12:30	10 seconds 300 milliseconds	—

And in the **MRP Actions** you can see:

Journal Batch Name	JOB
Filter Posted	All
Filter Type	All
Run MRP	By Sales Lines
MRP Setup	NET FASHION

Line-Level Code 1	Type 1	Item No. 1	Item Description	Item Description 2	Approve	Action	Calc. Base Chk.	Post.	Existing Quantity	Replacement Quantity	Unit of Measure Code	Replacement Order No.	Replacement Prod. Collect Order No.	Assign Location Code	Replacement Buy-From Vendor No.
1	Production Order	21002001	Lily Blouse	Royal BlueXS	☒	New Order	☐	☐	0.00	1.00	1.00	PCS	—	—	—
1	Production Order	21007001	Lily Blouse	RedXS	☒	New Order	☐	☐	0.00	1.00	1.00	PCS	—	—	—
1	Production Order	21007006	Lily Blouse	RedXXL	☒	New Order	☐	☐	0.00	8.00	8.00	PCS	—	—	—
1	Production Order	21007007	Lily Blouse	Red3XL	☒	New Order	☐	☐	0.00	4.00	4.00	PCS	—	—	—
1	Production Order	21007302	Lily Blouse	PinkS	☒	New Order	☐	☐	0.00	3.00	3.00	PCS	—	—	—
1	Production Order	21007303	Lily Blouse	PinkM	☒	New Order	☐	☐	0.00	4.00	4.00	PCS	—	—	—
1	Production Order	21007304	Lily Blouse	PinkL	☒	New Order	☐	☐	0.00	4.00	4.00	PCS	—	—	—
1	Production Order	21007305	Lily Blouse	PinkXL	☒	New Order	☐	☐	0.00	11.00	11.00	PCS	—	—	—
1	Production Order	22000104	Grace Bomber	White4	☒	New Order	☐	☐	0.00	5.00	5.00	PCS	—	—	—
1	Production Order	22000106	Grace Bomber	White6	☒	New Order	☐	☐	0.00	9.00	9.00	PCS	—	—	—
1	Production Order	22000108	Grace Bomber	White8	☒	New Order	☐	☐	0.00	8.00	8.00	PCS	—	—	—

You need to make sure that the **Journal Batch Name** is set to **JOB**, because that was set in **Batch Name** of the **MRP Job Queue**.

Now also the **MRP Job Queue** has been changed:

Next Run ↑	Batch to Run 1 ↓	Batch Run Priority ↑	Batch Name	Batch Description	MRP Setup	Run MRP By	Clear Posted by Recalcu...	Creation Date	Modified Date	Recurrence	Last Run
25-7-2020	☒	0	JOB	Default Job Queue Batch	NET FASHION	By Sales Line	☒	17-10-2018		1D	24-7-2020 12:30

The **Next Run** date is filled with the next date based on the **Last Run** and the **Recurrence**.

And the **Job Queue Entry** has changed as well:

JOB QUEUE ENTRY CARD WORK DATE: 6-9-2020		Codeunit · 6037326 · trm MRP Job Queue	
Process Report Actions Navigate Fewer options			
Set Status to Ready Set On Hold Show Error Restart Log Entries			
Object Type to Run	Codeunit	Maximum No. of Attempts to Run	
Object ID to Run	6037326	Retrun Delay (sec.)	
Object Caption to Run	trm MRP Job Queue	Last Ready State	24-7-2020 12:19
Description	MRP Job Queue	Earliest Start Date/Time	27-7-2020 00:00
Parameter String		Expiration Date/Time	
Job Queue Category Code	MRPCALC	Status	Ready
User ID	CORNATOR\KBI		
Recurrence			
Recurring Job	☐	Next Run Date Formula	
Run on Mondays	☐	Starting Time	
Run on Tuesdays	☐	Ending Time	
Run on Wednesdays	☐	No. of Minutes between Runs	
Run on Thursdays	☐	Inactivity Timeout Period	
Run on Fridays	☐		
Run on Saturdays	☐		
Run on Sundays	☐		

NOTE

In this example: July 24th is a Friday, so although the MRP Job Queue says **Next Run 25-07-20**, it will run actually on **Earliest Start Date/Time 27-07-20** of the Job Queue Entry.