



MM MRP Planning

Analysis of Release Performance MM (/n/WSWN/SPEEDI_T039)

Automotive suppliers need to follow the increasing flexibility which OEM's ask. The SAP elements of the „normal“ MRP controller are not the customer SD Scheduling Agreements but our call-off's to our suppliers (=MM Scheduling Lines). The a.m. transaction from software supplier WSW gives the MRP controller the chance to detect certain fluctuations in our call-offs. A „good“ MRP controller knows proactively when she/ he has changed its call-off in a certain range before the supplier will response. Hence the MRP controller is prepared for escalation talks and concentrate in getting the parts even the call-off fluctuation was not caused by her/ him.

Another use case are analysis after a shortage occurred to negotiate certain costs to be burden by the supplier or by us (e.g. special transport costs, costs for additional shifts etc.).

The objective of this transaction is

- Maximum flexibility during data selection, processing, and presentation
- Targeted search and access possibitlity to tolerance violations
- Quick detection of release order tendencies, also across longer time frames
- Practical result processing
- Time effort minimization

The result is a strategic and operative overview (long-term, medium-term, and short-term) of the release order situation in certain scheduling lines or per supplier.

The newly gained transparency about the release order behavior provides a very good argumentation basis towards the vendor.

a) Selection options

The user has many parameters how to select certain MM-scheduling lines:

SPEEDI: Analysis of release performance MM



Selection

Analysis settings

Report settings

Purchasing data

Purchasing organization		to		
Purchasing group		to		
Plant code	1077	to		
Storage Location		to		
supplier		to		
purchasing doc. type		to		
Schedule agreement SAP	5500004898	to		
Scheduling agreement item		to		
Item cat.		to		
Deletion indicator		to		

Material data

Material		to		
Short text of material		to		
ABC indicator		to		
MRP controller		to		
MRP Group		to		
Product hierarchy		to		

b) Comparison settings

You also can use F1-help, e.g. for the determination of the base release:

The **base release** is determined based on the date entered in the field „Release date“. If there is no release with exactly this release date, then a search is done „backwards“ into the past until a release is found. The later visualization as well as calculation of differences and percentage values is basically realized in comparison of the „**basis release order**“.

Next you **determine the qty. of releases** which you like to compare to the base one. The selection options are quite flexible depending on you need of analysis. In this example the previous 15 releases being selected.

The final setting „**Requirements determination and display**“ determines which periods/horizon you like to compare. In our example the call-offs for the period 01.01.2022 until 30.04.2022. The requirements are outputted as absolute quantities or as the respective input cumulative quantities (CRQ=FZ). For further details refer to F1-Help.

The usage of traffic lights will be explained in chapter 1.4 below.

SPEEDI: Analysis of release performance MM



Selection

Analysis settings

Report settings

Determination of base release

Rel.Date

21.03.2022



Base release

☒ ForeDlvSched ☐ JITDlvSched

Determination of releases to compare

Compare releases

☒ by number, take the

☒ previous ☐ next

15 releases to compare

☐ by period

Comp. Rel.Date

to

No. of rel. to compare

☐ only one ☒ all

☒ ForeDlvSched ☐ JITDlvSched

Determination and view of requirements

Periods

Requirements from

01.01.2022

to

30.04.2022

Display

4 ☐ Day ☐ Week ☒ Month ☐ cumulative

Comp. with

☒ absolute quantities ☐ CRQ ☐ Do not deduct deviation.

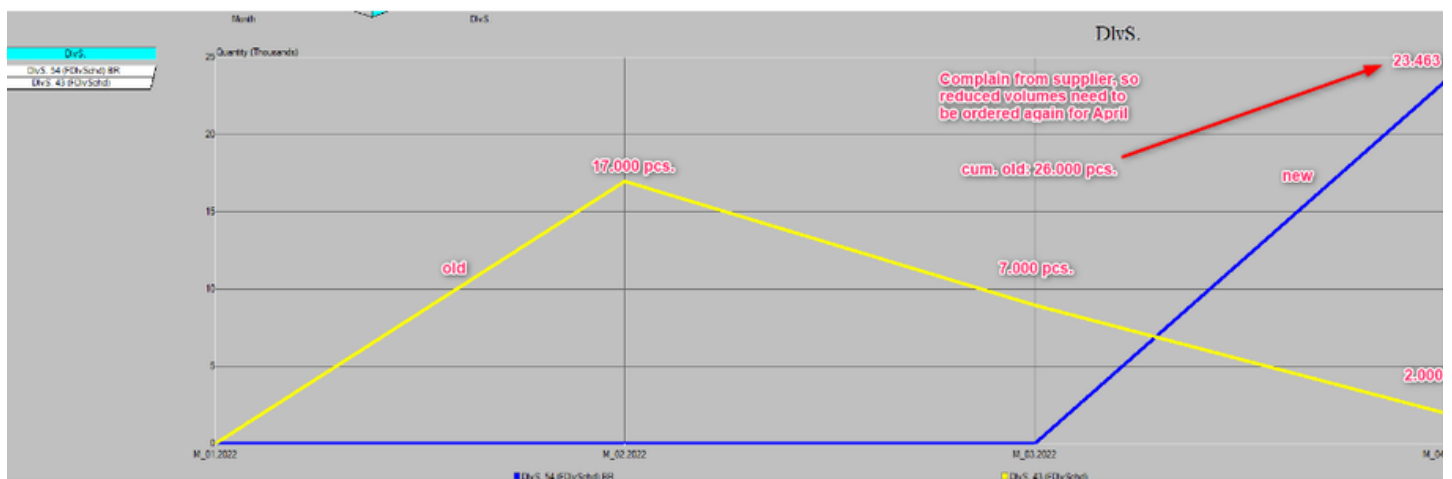
c) Program output

First you receive the „**Overview list**“ with certain „KPI“ values to be displayed for your selection. For details how the values being caculated refer to F1-help.

More important are the Details which you can open by the icon „**Details**“. A detailed result per release order / period can be reviewed:

In our example with release 43 dated 09.02.2022 we still ordered 17.000 pcs. which we have reduced to 0 in our base call-off No. 54 dated 21.03.2022:

A good option is when you click the „Show graph“. In our example we could see that we have reduced our call-off by approxm. 26.000 pcs. Then our supplier rejected such a volume drop and we had to order them again and placed approx. 23.500 pcs. for April again:



d) Tolerances

If the MRP controller runs daily the transaction for its respective materials an Alerting via Traffic Lights needs to be set to focus on the exceptions. Here the SPEEDI Time / Quantity Filter with individual tolerance settings needs to be set.

display

comp. with

4

☐ Day ☐ Week ☒ Month ☐ cumulat

☒ absolute quantities ☐ CRQ ☐ Do not deduct deviation.

erances

choice of tolerances

status

01_DEV_15%

edit

☒ ☒ out of tolerance range

☒ ☐ not checked for tolerances

☐ ☒ within tolerance range

☐ ☐ no detailed data for view available

SPEEDI: Time-/Quantity funnel - funnel name

Restrictions

FunnelName

Description

01_DEV_15%

Deviation_15%

Certain Funnel can be created

In the 2nd layer „Line Time-/ Quantity funnel MM“ the traffic lights can be set based on Period, +/- Deviation and var. types (e.g. qty. percentage or values).

alog Structure

SPEEDI: Time-/Quantity funnel MM

Line Time-/Quantity funnel MM

Funnel name

01_DEV_15%

Line Time-/Quantity funnel MM

	R...	PeriodType	Period	+ Deviation	var.type	- Deviation
10	M	Month	1	15,000	1 Percent	15,000
20	M	Month	2	15,000	1 Percent	15,000
30	M	Month	3	30,000	1 Percent	30,000
40	M	Month	4	50,000	1 Percent	50,000

Further funnels will be set together with certain key MRP controllers.

e) Training video

Bulk material (GER Schüttgut)

Normally components being consumed by backflushing (GER retrograde Verbrauchsbuchung). For auxiliary materials or consumables it sometimes makes sense to use the SAP logic **Bulk material (GER Schüttgut)**.

Here the consumption being done by a manual warehouse task (GER Lageraufgabe) to destination storage bin 4500-001 (DPL), 4500-002 (EKB) & 4500-001/ 4510-001/ 4520-001 (TEM) which leads to a immediate consumption booking:

The respective production area needs to inform the warehouse manually that the material should be supplied to line (e.g. via manual KANBAN-two box logic).

Settings

- Set tick in MM03 for auxiliary material or consumable

- The settings of BOM for the semi-finished materials have to have following setting in the position

- Warehousing has to be informed as well since certain settings to be done in EWM
- No reservations being created so the orders need to be done manually. Here experience is necessary since the replenishment time and the consumption

booking are not in sync so continuous check and balance is necessary. It is recommended to even maintain a safety buffer

For application use following form:

Remarks

In case you need to change back, please note that existing production orders have to be set to TECO (GER Technisch abgeschlossen) as well closed in MES, so the bulk material indicator can be set again. Please inform Warehousing so the open Warehouse tasks can be closed as well. Then create new production orders. Please run afterwards an MRP with Planning Mode „3 Delete and Recreate Planning Data“ so also the Planned Orders being refreshed.

r		10023837			Type	ZP02								
ral	300021731-016	ZB STERNKOPPLER VAR1 5-FACH - 120 OHM	Plant		1077									
 Component Filter NO_FIL No Filter Sorting ST_STA Standard Sort														
Component Overview														
Item	Component	Description	Reqmt Qty	U...	I...	Op...	Se...	Plant	St...	Reqmnt Segment	Stock Segment	Batch	A...	B...
010	300021842-010	STERNKOPPLER VARIANTE 1	58.320	PC	L	0010	0	1077	4011				☐	☐
020	300021843-013	OT STERNKOPPLER	58.320	PC	L	0010	0	1077	4011				☐	☐
030	300021845-013	UT STERNKOPPLER	58.320	PC	L	0010	0	1077	4011				☐	☐
040	300023928-001	HILFSSTOFF - Haftetikett 15 x 15 m...	58.320	PC	L	0010	0	1077	4011				☐	☒
050	300026668-001	HILFSSTOFF - Thermotransferfarbban...	1.166,400	M	L	0010	0	1077	4011				☐	☒

Bulk must be ticked in FAUF

Material	300023928-001		
Description	HILFSSTOFF - Haftetikett 15 x 15 mm, wei		
Area	1077	Plant 1077	
Plant	1077	MRP type	P1
		Material type	ZMAT
		Unit	PC
Date GR ST On On Vendor Cust. Page 1 / 1			
Date	MRP ...	MRP element data	Reschedul... E.. Receipt/Reqmt Available Qty St... Vendor Vendor Name
08.04.2022	Stock		96 0
08.04.2022	SafeSt	Safety Stock	400.000- 400.000-
12.04.2022	SchLne	5500001639/00010 *	08.04.2022 10 1.000.000 600.000 4000 552115 TOKO Etikettier- und Drucksysteme
04.05.2022	SchLne	5500001639/00010 *	20 1.000.000 1.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
08.06.2022	----->	End of Planning Tim...	
15.06.2022	SchLne	5500001639/00010 *	20 1.000.000 2.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
13.07.2022	SchLne	5500001639/00010 *	20 1.000.000 3.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
11.08.2022	SchLne	5500001639/00010 *	20 1.000.000 4.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
14.09.2022	SchLne	5500001639/00010 *	20 1.000.000 5.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
16.12.2022	SchLne	5500001639/00010 *	20 1.000.000 6.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
27.04.2023	SchLne	5500001639/00010 *	20 1.000.000 7.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
25.07.2023	SchLne	5500001639/00010 *	20 1.000.000 8.600.000 4000 552115 TOKO Etikettier- und Drucksysteme
20.10.2023	SchLne	5500001639/00010 *	20 1.000.000 9.600.000 4000 552115 TOKO Etikettier- und Drucksysteme

Establish MM-SA Release docu. for Intercompany ZLUE (SYNRE-1226)

MM-SA which were created by GAP-246 have automatically a release docu. for our 100% Intercompany MM-SA following setting needs to be established:

- Create new MM-SA with Agreement Type ZLUE:

Create Scheduling Agreement : Initial Screen

 Reference to PReq  Reference to t

Vendor	577461
Agreement Type	ZLUE
Agreement Date	25.04.2022
Agreement	

ME31L

Organizational Data

Purch. organization	1000
Purchasing Group	A36 

Default Data for Items

Item Category	
Acct Assignment Cat.	
Plant	1178
Storage location	
Material Group	
Req. Tracking Number	
Supplier Subrange	
Acknowledgment Req'd	☐

- Then go via button „Details“ and set „Creation Profile“ to „0001“:

- Do not forget to delete open demand in old MM-SA 5500005954 (Zero-Call-Off)
- Then run MRP MD01N:

- Automated history of call-off will done once a week
- In case you like to create a manual call-off for historic reason, pls. use ME38 + F6 and then select as printer LP01

- Then Save and you will see the History:

- In addition, pls. check if the Shp.Cond. is set to „02“ and respectively the „Route“ which comes from Business Partner (BP):

Usage of Product Group (table PGMI) (e.g. to deviate Pre-Series with Series Materials) SYNRE-1150

In the daily business Material Planner or Production Planner needs to distinguish materials, e.g.

- To distinguish Pre-Series against Series materials
- Select special products like Co-Products (GER Kuppelprodukte)
- To distinguish materials under allocation

The SAP Standard as well DRX-DGT offers the usage of Product Groups

a) Create Product Group (MC84)

The naming of a product group is like the number of a material – it cannot be changed later. Therefore following naming convention must be followed:

- PGX_M_12 digits" for product groups which contains materials
- „PGX_H_12 digits" for product group which is a hierarchy level

The X digit after the PG is according PDD nomenclature:

- P – product group packaging
- S – product group supply chain
- O – product group sales
- C – product group central purchasing

e.g. „PGS_M_12 digit“ – product group supply chain_materials_12 digits to be completed

Create Product Group: Initial Screen

Pls. use naming convention (not changable)!

Product groupPGS_M_W214

Pre-Series Material W214

Plant1178

Base UnitPC

Set base Unit (normally PC)

Materials

Product groups

Select Materials

Describe the focus of the product group

Then enter the relevant materials:

Create Product Group: Maintain Members (Materials)

Assign Members

Hierarchy Graphic

Versions...

Master Data...

Product Group Graphic

Product groupPG_SCM_M_1178_G6X

Pre-Series W218

Plant1178DAR Timisoara Production

Base UnitPC

Enter material numbers!

Material number	Plant	Unit conv.	Aggr.fact.	Proportion	U...	V	M	F	Short Text	M
056683-001	1178	1	1	0	PC				2276_BR214_UL_LIN_RGBW.PrjPcbPWB	ZI

b) Display Product Group (MC85)

To find existing Product Groups please click here:

Display Product Group: Initial Screen

To find existing product group please click here:

Product group		
Plant	1138	

Then click the green button and then the result list appears:

c) Change Materials inside Product Group (MC86)

You either can add more materials or delete members in case the material becomes obsolete via the „Delete Member“ button:

d) Usage in certain transactions

- Stock/ Requirements List: MD07

Training Video

Handling of Expiry Dates

With BGL1 1.3 HUN March 2023 a new MDG Variant 17 is applicable where a material can be set with expiry dates. This will be applicable **plant-independent**.

Go to Basic Data "Details":

Set Data as follows: **Case 1 "not retrievable from label on material but from Technical Data Sheet"** , e.g. 108465468-001 --> min. 18 months or 540 calendar days

After the CR being released no further workstep applicable so MM03 is directly being updated:

After Receiving the Goods, the GR worker creates manual the ASN via ZMM_Create_ASN:

Create ASN for Inbound Delivery

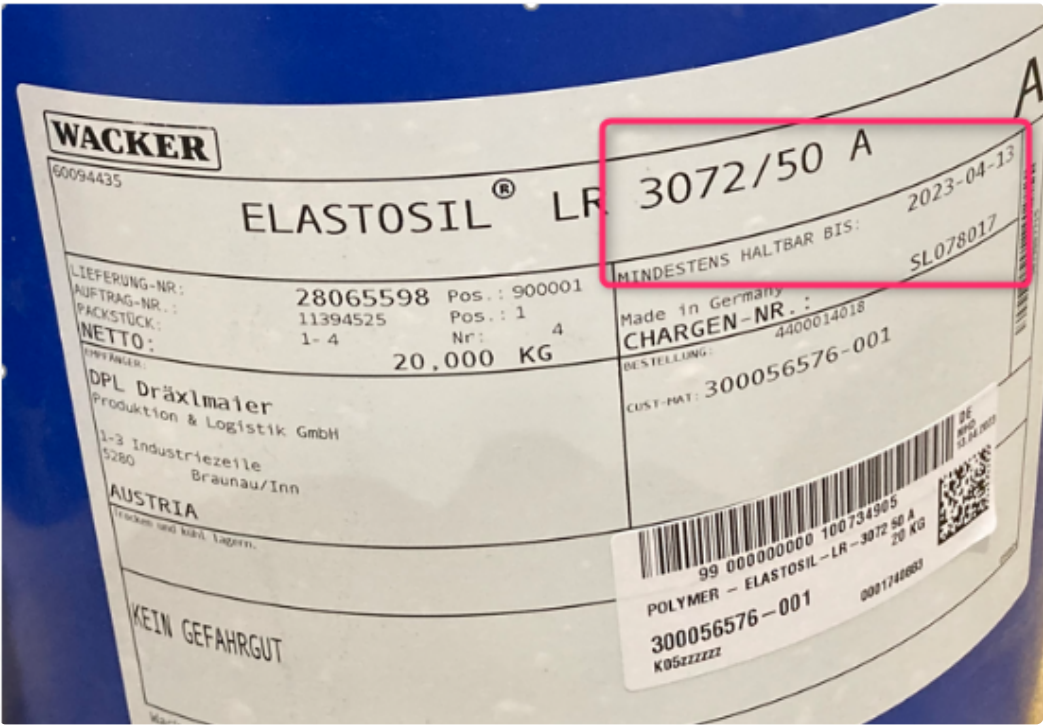
Input

Supplier	500472	
Purchase Orders	5500000600	
Plant	1077	
Document Date	20.01.2023	
Delivery Date	20.01.2023	
Means of Trans.		
Means of Trans. ID		
Material	108465468-001	to

User must set manual a date in the field "Production Date" which might be the date of GR in case production day is missing:

Item	Acc Cat	Material Number	Material Description	External ID	Country	Quantity	UoM	Vendor Batch	Stg.Lc	Gross. Wt.	SLED/BBD	Production Date
10		108465468-001	HILFSSTOFF - LACK - Schutzlack - SL1307	230123		300	KG		4000	1.000,000	16.07.2024	23.01.2023

Set Data as follows: Case 2 "expiry date is on the label of the Good" , e.g. 300056577-001 --> e.g. min. shelf-life until 2023-04-13



Setting via MDG Variant 17:

Shelf Life Data

Minimum Remaining Shelf Life:		1
Total Shelf Life:		1

Alert will pop-up during ASN creation ZMM_Create_ASN:

Now the worker set the expiry date 2023.04.13 in the field "**SLED/BBD**". When the ASN being created the expiry date can be seen in the MSC3N:

RUN regularly the **MB5M Shelf Life List** to detect potential expired materials to either:

- produce/ use up before
- get Quality Release

Note: Expired material in EWM storage locations (starting with 4 like 4010) will automatically booked under restricted use, so MRP will order new material. This should be avoided or at least known by material planner

Training Video:

How to use Expiry Dates-20230126_141640-Besprechungsau...

Invoice Correction „Black“ delivery ex X-Dock to Production Plant

In urgent cases or accidentally material could be loaded on the truck from X-Dock to the production plant. Here an example from May 2022 (Mat.no. 200567285-001) where material already being booked into production plant before material being processed in X-Dock (line-stop item):

Roll	Plant	SLOC	MVT	Movement	Type	Text	Vendor	Customer	S	Material	Document	Item	Pstng Date	* Qty in unit of entry	EUn	Amt.in Loc.Cur.	PO	Batch	M-Reference	Cost Center
67285-001	1178	4000	101	GR	goods receipt		555445			5000303150		1	16.05.2022	152,500	PC	10.319,68	5500005828	0001659931	B 0100200326	
67285-001	1178	4000	101	GR	goods receipt		555445			5000303160				297,500	PC	20.131,83	5500005828	0001659932	B 0100200327	
67285-001	1138	1178	643	TF	to cross company					4905083018		5	20.05.2022	297,500	PC	3.985,91	5500005828	0001659791	L 0500000770	
67285-001	1178	4000	101	GR	goods receipt		555445			5000311942		5	24.05.2022	297,500	PC	20.131,83	5500005828	0001659791	B 0100201784	
67285-001	1138	1178	101	GR	goods receipt			000050K874		5000313521		1	25.05.2022	152,500	PC	2.043,20	5500005868	0001666872	B 0100202569	
														602.500	PC					

Since no „official“ ASN/ Delivery Note from X-Dock 1138 could be created the worker @TEM had to book it manually with a Dummy D/N:

Inbound Delivery 100200326 Display: Header Details

Vendor: 555445 DRAEXLMAIER Global Procurement / Landshuter Straße 100 / 84137 Vilsbiburg

Processing International Trade Shipment Unload Stock placement **Administration** Partner

Organization

External ID: 49850 V External Identification from...

Inb. Dly Group

Receiving Point: 9006 TEM - STAN VIDRIGHIN 300714

Document Editing

Created by: GR01814114 Created on: 13.05.2022 15:00:13

Changed by: RFC_PWM_500 Changed On: 17.05.2022

Consequently the later X-Dock processing will cause following major problems:

- A new ASN/ Delivery Note will be created when X-Dock makes its „official“ booking → ASN/ Inbound Delivery in 1178 must be manually deleted:

Warehouse Management Monitor ZDRX - Warehouse Number 1122

Show Hidden

Inbound

Documents

Inbound Delivery

Inbound Delivery Item

Warehouse Order

Warehouse Task

Handling Unit

Expected Goods Receipt

VAS Order

Receiving Overview

Processes

Physical Inventory

Count Overview

Difference Overview

Physical Inventory Documents

Serial Number

Physical Inventory Progress

HU-PI-Request

Documents

Physical Inventory Documents

Warehouse Order

SAPLZEW_WIP_SHPRCV

Putaway Status (Item)

Transit Procedure

Status (Item)

Blocked (Overall, Item)

Delivery Date (Plan)

Created On

☐ Determine Rejected Indicator

☐ Only Rejected

☐ Skip Dyn. Status Calculation

Data Source

☒ Database

☐ Archive

☐ Database and Archive

Item Data

ERP Document

Enter the respective Inbound Delivery Number

- X-Dock Invoice for the „deleted“ ASN/ Inbound Delivery will fail since the GR Dummy 49850 does not fit to the „official“ ASN/ Inbound Delivery (screenshot from another example how to check):

As you can see qty. are not in sync, especially „Rechnungseingang“ due to the failed idoc. In such cases Brit Philipp needs to be contacted so she can edit the idoc with the right GR ref.:

W: Another Case: Another Manually Invoicing X-Dock



Internal
Sie haben diese Nachricht am 20.06.2022 10:00 weitergeleitet.

Allo zusammen,

be das Idoc 36791796 (invoice 1040000310) angepasst und gebucht.
leg Nr. 5105661479 wurde hinzugefügt

xc 36265336 dito (invoice 1040000275)
leg Nr. 5105661481 wurde hinzugefügt

in schaut der Lieferplan 5500005828 wieder sauber aus.

Bestellentwicklung für Lieferplan 5500005828 Position 00010

Change of Supply Mode X-Dock to Direct or Direct to X-Dock

Please use below's button to get to the right site „Transaction“ where the ZMM_246N_PROC_CHANGE being explained:

- **ZMM_246N_PROC_CHANGE:** When you create master data via MDG the first time the supply mode (e.g. direct supply or X-Dock via SOBSK) is being defined and GAP246 is running and creating Inforecord, MMSA and order book. Even you change later the SOBSK which drives the supply mode e.g. to SOBSK Z2 X-Dock 1178-1138 it will **not re-start the GAP246!!!** The correct way is to use this transaction which will now being explained:
- Before inserting a new line check if a previous task is finished.

46 - Change of Procurement Variant

SAVE RELEASE

2. Select Filter

1. Mark column

3. Enter respective mat.no.

Material: 300056687-002, 590000389-001, 200020618-001, 200020620-001

Supplier: 571004, 500477, 570690, 570690, 570690

Plant: 570690, 570690, 570690

SpecProcType: 570690, 570690, 570690

New Procurement... Start date: 590000059-001

246 - Change of Procurement Variant

SAVE RELEASE

Result: There was a former one, but failed Status: 49, so can create a new one! If the Status is 20 you need to delete

Material	Supplier	Plant	SpecProcType	New Procurement...	Start date	Plant	Status	Existing Scheduling Ag
590000059-001	500477	1178	Z2	10 - Cross Dock	05.08.2022	1138	49 - error dunn	

- 2 parallel released change tasks for one material is not allowed. In such case please delete the wrong one via the scissor icon:

46 - Change of Procurement Variant

SAVE RELEASE

If accidentally 2 entries for the same material being done the application does not work. Hence you need to cut out the "wrong" one with the scissor icon:

Material	Supplier	Plant	SpecProcType	New Procurement...	Start date	Plant	Status	Existing Scheduling Ag
590000033-001	500477	1178		10 - Cross Dock	04.08.2022		20 - released	Link
590000033-001	500477	1178	Z2	10 - Cross Dock	05.08.2022	1138	20 - released	Link

- Before you start now pls. check if the plant 1138 and the MRP Area 1178-1138 is created via MDG before:

Material

590005876-001

15R_250mW

X-Dock Plant 1138 created!

Validity

Purchase order text

Overview: Display MRP Areas

General Data

Base Unit of Measure

PC

Purchasing Group

411

Plant-Sp.Matl Status

50

MRP procedure

MRP Type

P1

Reorder Point

0

Planning Cycle

Lot size data

Lot Sizing Procedure

Z3

Minimum Lot Size

0

Assembly scrap (%)

0,00

Rounding Profile

MRP areas

MRP Area

MRP Area Text

MR

1178-1138

X-Dock MRP Area 1178-1138

as well MRP Area 1178-1138

Maximum Stock Level

0

Takt time

0

Rounding value

50.000

MRP area exists

✓

MRP areas

- Now you can make a new entry: There are two options a) Append Row Icon (Line will be created on the end):

- b) Insert Line Icon (Line will be created on the top or below the marked line):

VARIANT CHANGE FROM CROSS DOCK TO 20-DIRECT

- Pls. select the data as follows:

EXPLANATION OF STATUS:

UPDATE MASTER DATA VIA MDG VARIANT 14

The transaction ZMM_246N_PROC_CHANGE is currently not correcting or updating several important MRP parameter as FXHOR, ROUNDING VALUE etc. Therefore it is necessary that after the transaction is executed that the MRP controller is checking the MD04 and makes updates:

- Is the PLANNING CALENDER correct?
- Should you run once the MRP with FXHOR 1 to create a clear first ok call-off and then increase the FXHOR again?
- Is the ROUNDING VALUE and/ or MINIMUM ORDER QTY. (MOQ) correct?

In addition, it is recommended to delete old not valid MMSA as well. Also check if you need to update the order book (ME01). Here the transaction **ME3M** helps:

Evaluated Receipt Settlement (ERS) (GER Gutschriftsverfahren)

In SYNRE-934 the future design for Supplier ERS being development.

1st step would be that with Business Partner MDG the certain setting is being done:

Then a automatism will set the relevant „tick“ in the contracts and via GAP-246 into the MMSA:

Unfortunately new MMSA need to be create hence the SYNRE-934 will enlarge the transaction ZMM_246N_PROC_CHANGE. Further documentation will be added when application is Go-Live (planned Rel 1.3 May 2023).

Update MOQ or/ and Rounding Value

Following training video shows you have the MOQ or/and Rounding Value need to be updated especially under the condition of X-Dock plant and Firmzone (FXHOR)

Training Video

Split Evaluation (GER Bewertungsart)

In very seldom cases like MFA2 AMB Platine (190055731-014 plant 1178) we produce and buy the same material. Such a case must already being considered during first MDG workflow and it is strongly recommended to leave a note in the workflow or inform Controlling (Morar/ Hritcan) via Prio 1 MDG Teams Channel to maintain split evaluation F & E.

In addition, the procurement type must be a **real "X"**.

Please note: A missing split evaluation cannot be adjusted in a later step when already booking occurred!

Material	
Material	190055731-014
PLATINE AMBIENTBELEUCHTUNG RGB	
MRP 1 MRP 2 MRP 3	
Plant	1178 DAR Timisoara Production
Procurement	
Procurement Type	X
Special procurement	
Backflush	2

Material	
Material	190055731-014
PLATINE AMBIENTBELEUCHTUNG RGB 2066_08_0	
Validity	
Quality Management Accounting 1 Accounting 2 Cost Estimate 1 C...	
Plant	1178 DAR Timisoara Production
Period 004.2023 Period 003.2023 Period 012.2022	
General Data	
Base Unit of Measure	PC Piece
Currency	RON
Division	10
Valuation Category	2
Current period	4 2023
Price Determination	2
☒ ML Act.	

Split Evaluation:

To see the values please select as follows:

➔ Additional Data	
Org. Levels	
Material	
Material	190055731-014
PLATINE AMBIENTBELEUCHTUNG RGB 2066_08_0	
Validity	
PS4(1)/500 Organizational levels	
Quality Management	
Plant	1178
DAR Timisoara Production	
Valuation type	
Val. Type E F	

Consequently, a Quota Arrangement needs to be maintained. In this example it was returned to 100% Buy part but before there was a quota for make and buy:

Material	190055731-014		PLATINE AMBIENTBELEU	
Plant	1178	DAR Timisoara Production		
Quota arr.	1423	Base Unit	PC	
Valid from	03.03.2023	Valid to	31.12.9999	
Created By	MO01800954	Minimum Qty	0,000	
		Created on	10.10.2022	

Quota

Quota Arr. Items											
	Q	I	P	S	Supplier	PPI	PVe	Qu...	in %	Allocated Qty	Maximum Quant
1	E	E				1178		0	0,0	0,000	
2	F				555445	1138		100	100,0	1.848.454,000	

Further SAP elements needed: **Make** --> BOM (CS03) & BOP (CA03) & Production Version (C223)

Further SAP elements needed: **Buy** --> Contract (ME33K) & GAP-246 (MM-SA (ME33L)/
Order Book (ME03)/ Info Record (ME13)

Example: Sternkoppler

Support 1138 X-Dock VIB with VL10F

The business rule is that the plant 1138 X-Dock VIB (GER Warenverteilzentrum VIB) will ship all materials which was received being shipped out to the respective production plant like 1178 TEM & 1179 HUN.

The pre-condition is that open MM-Scheduling lines (ZLUE) exists independently from the date of delivery based on the rule MM-Scheduling Lines (ZLUE) $\geq$ stock @1138

Currently X-Dock workers write requests to the relevant MRP controllers to increase the Scheduling Lines. With following improvement this can be minimized.

1. Step Apply a new Role "SCM_MRP_Controller" in UniTe service catalogue "SAP Synapsis..."



IT Anträge

SAP Synapsis Zugriffsberechtigung

Access SAP Synapsis request

1 Tag - Geschätzte Erfüllung

Please select the title of the user for which the request will be processed *

Ms.



1.Select Synopsis Area: *

Business_(Maintenance)



Business_(Maintenance): should be selected when access is needed in the systems where the business is already live. E.g. Braunau -> PS4, PWM, PGT, PFI, DA*, QA* (depending on the selected role).

Project should be selected when access is needed in the systems where the project is currently under construction. -> ZA*, UA*, DA2, QA2, SAG, WA*, OA*, (depending on the selected role).

1.Select Synopsis Module: *

Supply_Chain_Management



1.Select Synopsis Business Role: *

SCM_MRP_Controller



1.S/4HANA Organization Restrictions: *

(S4) B009: SCM - DGP x-dock VIB -> TEM



MRP controllers 1178 TEM: Choose Organization Restrictions B009: SCM - DGP x-dock VIB --> TEM

MRP controllers 1179 HUN: Choose Organization Restrictions B010: SCM - DGP x-dock VIB --> HUN

2. Run in daily MRP routine the transaction VL10F

Selection screen: Shipping Point 9001 for 1138 X-Dock

Purchase Order Item Schedule Line **VL10F**

Shipping Point/Receiving Pt to

Deliv. Creation Date to

CalcRuleDefltDivCrDt

Reduce date to approx. 6 weeks in the future to increase performance

Then sort the column "Cum.qty" to see the materials with stock:

Activities Due for Shipping "Purchase Order Item Schedule Line"

Sorting

△	Sold-to	OriginDoc.	Orig .Item	Ship-to	GI Date	Material	Open qty	BU	Cum.qty
☐	OO	5500005824	10	6524000	29.06.2023	200625502-001	260.800	PC	158.400
☐	OO	5500005825	10	6524000	29.06.2023	200587557-001	2.276.969	PC	144.000
☐	OO	5500008279	10	6524000	30.06.2023	200587559-002	512.000	PC	144.000
☐	OO	5500006826	10	6524000	09.06.2023	590005910-001	24.000	PC	138.000
☐	OO	5500005823	10	6524000	29.06.2023	200858815-001	183.200	PC	124.800
☐	OO	5500006835	10	6524000	11.05.2023	300056669-003	51.493	PC	51.493
☐	OO	5500009144	10	6524000	27.06.2023	590002093-002	102.000	PC	51.000
☐	OO	5500007638	10	6524000	27.06.2023	106238583-003	133.000	PC	27.000
☐	OO	5500007639	10	6524000	27.06.2023	106238652-003	133.000	PC	26.000
☐	OO	5500011595	10	6524030	15.06.2023	200567287-001	96.000	PC	24.000
☐	OO	5500011059	10	6524000	27.06.2023	590002052-002	90.000	PC	21.000
☐	OO	5500011552	10	6524030	29.06.2023	200254925-001	110.880	PC	20.160
☐	OO	5500007752	10	6524000	27.06.2023	300058055-003	60.500	PC	19.500
☐	OO	5500010277	10	6524030	15.06.2023	300036001-003	139.500	PC	17.700
☐	OO	5500008839	10	6524000	07.06.2023	590002263-001	88.000	PC	16.000
☐	OO	5500010616	10	6524000	30.06.2023	590005753-002	12.000	PC	15.000
☐	OO	5500012014	10	6524030	29.06.2023	200253135-001	139.800	PC	13.800
☐	OO	5500012013	10	6524030	29.06.2023	200253134-001	136.880	PC	10.880
☐	OO	5500007641	10	6524000	27.06.2023	106238653-003	108.000	PC	10.000
☐	OO	5500007640	10	6524000	27.06.2023	106238640-003	110.000	PC	10.000
☐	OO	5500006460	10	6524000	28.06.2023	590004608-001	40.000	PC	10.000
☐	OO	5500011313	10	6524030	29.06.2023	109143918-001	60.000	PC	9.000
☐	OO	5500011229	10	6524030	29.06.2023	105910550-002	60.000	PC	9.000
☐	OO	5500011460	10	6524030	29.06.2023	598800129-003	29.160	PC	6.660
☐	OO	5500012242	10	6524000	27.06.2023	590005485-002	4.000	PC	6.000
☐	OO	5500011356	10	6524030	24.05.2023	108237837-001	10.000	PC	5.040
☐	OO	5500010225	10	6524030	24.05.2023	107788049-003	10.000	PC	5.027
☐	OO	5500010320	10	6524030	07.06.2023	107662959-021	15.000	PC	5.000
☐	OO	5500010196	10	6524030	29.06.2023	109205572-001	24.640	PC	3.080
☐	OO	5500011219	10	6524030	29.06.2023	107790179-003	13.702	PC	2.640
☐	OO	5500007554	10	6524000	30.03.2023	590005815-001	2.500	PC	2.500
☐	OO	5500009058	10	6524000	16.06.2023	107371109-016	11.251	PC	1.570
☐	OO	5500010213	10	6524030	29.06.2023	107661019-002	14.720	PC	1.472
☐	OO	5500010208	10	6524030	28.06.2023	300004321-001	15.840	PC	1.440
☐	OO	5500011878	10	6524030	29.06.2023	107959757-005	13.774	PC	1.260
☐	OO	5500010216	10	6524030	30.06.2023	107696980-020	11.088	PC	504
☐	OO	5500008969	10	6524000	20.06.2023	300043190-005	1.152	PC	500
☐	OO	5500005809	10	6524000	25.04.2023	200437052-001	432	PC	432
☐	OO	5500006183	10	6524000	11.05.2023	200024389-001	1.287	PC	330
☐	OO	5500009968	10	6524000	29.06.2023	300028627-005	568	PC	72

Then search for the items with the condition:

Open Qty. < Cum qty. (red marked frames)

Now the MRP controller proactively increases the scheduling lines of the respective ZLUE.

Remarks: To improve this evaluation you can copy separately the 3 columns with Control+Y (mark) and Control+C (copy) into Excel and make there a quick calculation:

Shopping Card Parts: **Normally not applicable**

Sometimes when material number is not yet available during pre-series phase a so called shopping card PO might being created either in C-system or P-system. Such PO's always against a project WBS, e.g. 4500511777

PO from SRM 4500511777 Created by Martin Schimpfhauser

Document Overview On Messages Personal Setting

ZNBS PO from SRM 4500511777 Supplier 565865 Melexis Technologies NV Doc. Date 11.06.2021

Delivery/Invoice Conditions Texts Address Communication Partners Additional Data Org. Data Status Customer Data Release strategy

Payment Terms ZB07 Currency EUR

Payment in 30 days 0,000 % Exchange Rate 1,00000 ☐ Fixed Exch.Rate

Payment in 0 days 0,000 % ☐ GR Message

Payment in 0 days net

Part no. 590004624-001 was not yet available on date of PO dated 11.06.2021

B	S..	Itm	A	I	Material	Short Text	PO Quantity	O...	C	Deliv. Date	Net Price	Curr...	Per	O...	Matl Group	Plant	Stor. L
	1					MLX81113KDC-BBB-000-...	114.000	PC	D	14.06.2021	0,70	EUR	1	PC	Comp electr...	DAS Vilsbiburg Sales	

In the Account Assignment you can retrieve the WBS:

Item 1 [1] MLX81113KDC-BBB-000-RE

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions **Account Assignment**

AccAssCat P Project Distribution Single Account Assignm... CoCode 3005 DAS G...

Unloading Point VIB Recipient Schimpfhause

G/L Account 65102000

CO Area Z001

WBS element E2-02733-049DD07-01 Network

ServiceDoc 0

More

Since Goods Receiving will be made against PO number a material number is not necessary. In addition, no stock being created in the system since it is a Project-PO with WBS:

m 1 [1] MLX81113KDC-BBB-000-RE

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions Account Assignment **Purchase Order History**

Sh. Text	Tr./Ev.	MvT	Material Doc...	It...	Referen...	Posting Date	Entry Date	Quantity	Delivery cost...	OU	Amt.in Loc.Cur.	L.C
VE	Goods receipt	101	5000279705	1	2457476	25.04.2022	25.04.2022	6.000	0	PC	4.200,00	EUI
VE	Goods receipt	101	5000278425	1	2461636	21.04.2022	21.04.2022	6.000	0	PC	4.200,00	EUI
VE	Goods receipt	101	5000276986	1	2460049	20.04.2022	20.04.2022	6.000	0	PC	4.200,00	EUI
VE	Goods receipt	101	5000276236	1	2460998	19.04.2022	19.04.2022	6.000	0	PC	4.200,00	EUI
VE	Goods receipt							102.000	PC		71.400,00	EUI
E-L	Invoice receipt		5105662345	1	2460998	21.06.2022	21.06.2022	6.000	0	PC	4.536,00	EUI
E-L	Invoice receipt		5105662344	1	2460998	21.06.2022	21.06.2022	6.000	0	PC	4.536,00	EUI

So after Goods Receipt, the parts/ package being delivered physically to the responsible person for its purpose.

But what to do if the parts needs to be shipped to another plant. In the following a possible procedure will be explained which should only being applied as an **exception!!**

First you need to evaluate "Accounting 1" view of the respective plant where stock should be created:

Procedure:

Target: PS4 / EWM stock creation

Material-Master-Data exists (finished MDG)
Example 590005140-001

A) Material in Accounting 1 **not** valued and price control V (MM03-Accounting 1)

Prices and Values	
Standard Price	0.00
Price Control	V
Inventory Value	0.00

B) Material in Accounting 1 **valued** and price control V (MM03-Accounting 1)

Prices and Values	
Standard Price	100.00
Price Control	V
Inventory Value	100.00

C) Material has **price control** (MM03-Accounting 1)

Prices and Values	
Standard Price	1.000
Price Control	S
Inventory Value	1.000

A) Price Control V and value is 0. In other words, so far not Goods Receiving occurred so a free-of-charge PO can be utilized to create stock. Controlling does **NOT** need to be involved (no MR21)

B) Price Control V and value is not 0. Here Controlling (MR21) needs to be involved after the GR being executed since the V-price will be dropped when doing GR against free-of-charge PO.

C) Price Control S with value or value is 0. Controlling does **NOT** to be involved (no MR21) when using a Free-of-Charge PO.

ME21N Create Free-of-Charge PO e.g. 4400021923

Create a Free-Of-Charge PO like 4400021923

NB Standard PO Supplier Doc. Date 12.06.2023

Delivery/Invoice Conditions Texts Address Communication Partners Additional Data **Org. Data** Status

Purch. Org. 1000 Pur.Org. EMEA
Purch. Group A38 Bulgariu L.
Company Code 3083 DGP GmbH

Free-of-Charge

S..	Itm	A	Stock Segment	Req. Segment	Reqmt No.	Requisitioner	IM Material	Info rec.	R..	F...	T...
▲	10						590004624-001			☒	

Material: 590004624-001
 Description: MLX81113KDC-BBB-000-RE
 Area: 1178-1138 X-Dock MRP Area 1178-1138
 Plant: 1138 MRP type: P1 Material type: ZMAT Unit: PC

Now GR can be made against Free-of-Charge PO!

Individual List Cross-Plant View

Page 1 / 5

Date	MRP ...	MRP element data	Reschedul...	E.. Receipt/Reqmt	Available Qty	Su...	Iss...	St...	Vendor	Vendor Name
12.06.2023	Stock				0					
02.05.2023	SchLne	5500005047/00010 *	09.06.2023 15	58.000	58.000			1178	565865	Melexis Technologies NV
02.05.2023	SchLne	5500005047/00010 *	09.06.2023 15	32.000	90.000			1178	565865	Melexis Technologies NV
02.05.2023	SchLne	5500005047/00010 *	09.06.2023 15	22.000	112.000			1178	565865	Melexis Technologies NV
06.06.2023	SchLne	5500005047/00010 *	09.06.2023 15	22.000	134.000			1178	565865	Melexis Technologies NV
09.06.2023	ScAgDS	5500005046/00010		22.000-	112.000	1178	1178	1178		
09.06.2023	ScAgDS	5500005046/00010		150.000-	38.000-	1178	1178	1178		
09.06.2023	ScAgDS	5500005046/00010		49.000-	87.000-	1178	1178	1178		
13.06.2023	POItem	4400021923/00010	09.06.2023 10	24.000	63.000-			1178	506601	DAS DRÄXLMAIER AUTOMOTIVSYS
13.06.2023	SchLne	5500005047/00010 *	09.06.2023 10	22.000	41.000-			1178	565865	Melexis Technologies NV

Now Goods Receiving can create stock.

MR21 Price Change for variant B

Since the V price will be dropped when do GR against Free-of-Charge, pls. approach controlling to perform MR21 which needs to be documented for KPMG reasons.

Outbound delivery to plant

When the receiving plant should pay for the parts then the normal Interco MMSA can be used, e.g. 5500005046

Material: 590004624-001
 Description: MLX81113KDC-BBB-000-RE
 MRP Area: 1178-1138 X-Dock MRP Area 1178-1138
 Plant: 1138 MRP type: P1 Material type: ZMAT Unit: PC

Individual List Cross-Plant View

Page 1

A.. Date	MRP ...	MRP element data	Reschedul...	E.. Receipt/Reqmt	Available Qty	Su...	Iss...	St...
12.06.2023	Stock				0			
02.05.2023	SchLne	5500005047/00010 *	09.06.2023 15	58.000	58.000			1178
02.05.2023	SchLne	5500005047/00010 *	09.06.2023 15	32.000	90.000			1178
02.05.2023	SchLne	5500005047/00010 *	09.06.2023 15	22.000	112.000			1178
06.06.2023	SchLne	5500005047/00010 *	09.06.2023 15	22.000	134.000			1178
09.06.2023	ScAgDS	5500005046/00010		22.000-	112.000	1178	1178	1178
09.06.2023	ScAgDS	5500005046/00010		150.000-	38.000-	1178	1178	1178

If not another Free-of-Charge PO from the receiving plant needs to be created as well.
 In out case use as supplier 555445 DGP.

Note: In our example the Accounting 1 in plant 1178 TEM shows Price Control S, so variant C and Controlling is not involved.

Contact



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SO

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Employee Warehouse Logistics

LINKS



Knowledge Transfer Home Page