



Planned Independent Requirements (PIR = ZVSF)

Target of PIR

ALERT: Please note that this chapter should only be used for experience SAP MM-PP experts and being centralized by only one or two people per plant.

Please use this only for materials with version Z0 and Z4 (for plants). The version 00 is being used by pre-series ALK and they apply this procedure by themselves.

Training PIR ZVSF Part 1 with examples MFA2 and Platines 20220303

ZVSF are being used when customer demand is either not available or the forecast (e.g., 6 months) is too less to order components from our suppliers.

Starting point is that you get an Excel on monthly basis for a forecast on finished goods level. In our example we use 19 finished material numbers from ELFE production plant 1077 BRA.

A	B	C	G	H	K	L	M	N	O	P	Q	R	S	T	U	V	W
Kunde / Empfänger internes Werk	Kunde / Projekt	Bezeichnung	Aufschlag	(aktuelle) SAP Matr.	M2022_01	M2022_02	M2022_03	M2022_04	M2022_05	M2022_06	M2022_07	M2022_08	M2022_09	M2022_10	M2022_11	M2022_12	Jahressumme 2022
HUN	Porsche J1	Porsche J1 DIUS (inkl. Burnin)	5%	108216253-018	7980	7980	7980	7980	7613	4730	1785	4730	4730	4730	4463	6809	71510
HUN	Porsche J1	Porsche J1 BCUE (VR12.1.1)	5%	108216243-033	7980	7980	7980	7980	7613	4730	1785	4730	4730	4730	4463	6809	71510
HUN	Audi CBEV	CBEV Interlock Low	5%	300002419-011	3880	4463	3686	4074	3880	3104	2328	4268	3880	4074	3106	4368	45109
HUN	Audi CBEV	CBEV SOP+1 DIUS LOW	5%	108681682-019	3880	4463	3686	4074	3880	3104	2328	4268	3880	4074	3106	4368	45109
HUN	Audi CBEV	CBEV SOP+1 BCU LOW (Index F)	5%	108611250-021	3880	4463	3686	4074	3880	3104	2328	4268	3880	4074	3106	4368	45109
HUN	Audi CBEV	CBEV Interlock High	5%	108681415-014	970	1115	922	1019	970	776	582	1067	970	1019	776	1092	11277
HUN	Audi CBEV	CBEV SOP+1 DIUS HIGH	5%	108577810-018	970	1115	922	1019	970	776	582	1067	970	1019	776	1092	11277
HUN	Audi CBEV	CBEV SOP+1 BCU HIGH (Index F)	5%	108611249-022	970	1115	922	1019	970	776	582	1067	970	1019	776	1092	11277
HUN	Audi CBEV	DIUS PL 49/58	5%	107751260-024	5726	7306	5726	5726	6575	5726	7157	5726	5726	6575	4293	5647	71907
	BMW Sternkoppler	Sternkoppler Variante 1	0%	300021731-016	187500	187500	187500	187500	187500	187500	187500	187500	187500	187500	187500	187500	2250000
	BMW Sternkoppler	Sternkoppler Variante 6	0%	300021748-013	187500	187500	187500	187500	187500	187500	187500	187500	187500	187500	187500	187500	2250000
	BMW FAAR WE	LIN Modul Basis FAAR WE	5%	190056296-010	3899	5068	4433	4655	5235	6246	6918	17903	15611	21749	16539	32488	140744
	BMW FAAR WE	LIN Modul Mid FAAR WE	5%	190056298-010	205	267	233	245	276	329	364	942	822	1145	870	1539	7237
Marquardt	Audi	PPE DIUS PYRO	0%	300000016-021			1150	383	383	383	767	2167	767	1533	1533	1533	10600
Marquardt	Audi	PPE DIUS ISO	0%	300017721-021			1150	383	383	383	767	2167	767	1533	1533	1533	10600
Marquardt	Porsche	PEE DIUS PYRO (Porsche Version)		300058376-007			636	775	202	212	1086	86			662		
Stellantis	Maserati	Maserati DIUS	5%	300020926-013	0	1050	0	0	0	1101	76	209	252	2365	197	252	5502
HUN	Audi CBEV PA	CBEV PA BCU LOW (CR059)	5%	300059796-002			105	53	210	0	945	0	2625	6405			
HUN	Audi CBEV PA	CBEV PA BCU HIGH (CR059)	5%	300059795-002			105	52.5	84	0	210	0	630	840			

Setting on Finished Material Number level (NOT-Activated Z4)

A) Active Production version

Please check before that all relevant finished material number have a valid and long enough production version incl. BoM and BoP (MM03-MRP4):

Material

Material

CBEV PA_BCU_2319_01_02_

MRP 3 **MRP 4** Work

Plant DPL Braunau Producti

BOM explosion/dependent requirements

Individual/coll.

Version Indicator ☒

ProdVersions

Production Version Details

Production Version rbplan man ang; Stelzh + Ramb + Höchtl 25.01.2022

Basic data

Prod. Vers. locked

Minimum Lot Size Maximum Lot Size

Valid from **Valid To**

Planning data

Detailed planning	Task List Type	Group	Group Counter	Check stat
	N Routing	50000677	1	OO

Bill of material

Alternative BOM	BOM Usage	Check stat
1	1	OO

Repetitive Manufacturing

☐ REM Allowed

B) Check or maintain Master Data

Following fields must be set, especially the Strategy Group „Z4“ (MARC-STRGR) as well Mixed MRP „1“ (MARC-MISKZ). Normally this setting is default during MDG workflow:

Material

Material 

Validity

MRP 2  **MRP 3** MRP 4 Work scheduling Plant data / stor. 1 Plant... <

Plant DPL Braunau Production

Forecast Requirements

Period Indicator Fiscal Year Variant Splitting indicator

Planning

Strategy Group	Z4	Plnng w. fin. ass+cons. d.req.	
Consumption mode	2	Bwd consumption per.	35
Fwd consumption per.	10	Mixed MRP	1
Planning material		Planning plant	
Plng conv. factor		Planning matl BUnit	

C) Maintain PIR ZVSF in MD63 table (MD61)

In the last step you can now maintain the forecasted quantities per month via the transaction MD61:

Planned Independent Requirements for	
☒ Material	300059796-002
☐ Product group	
☐ Requirements Plan	
☐ Ext. Req. Plan	
MRP Area	1077
Plant	1077

Define Version	
Version	Z0 REQUIREMENTS PLAN

Planning Horizon	
From 01.02.2023 To 31.12.2023	Planning period M Month

If the Strategy Group is not maintained following error message occurred:

! No requirement type exists for material 300000016-016 in plant 1077

The quantities can be copied (Control+C) from Excel and paste (Control+V) into the SAP table:

Planning start 03.01.2022 Planning End 01.03.2023

Table Items Schedule Lines

ALERT: No Activation on Z0 level!

	K	<<	<	>	>>	>											
Material	MRP ...	V	A	BU	Reqmnt Segment	M 01.2022	W 03.2022	W 04.2022	W 05.2022	M 02.2022	W 06.2022	W 07.2022	M 03.2022				
300000016-016	1077	Z0	☐	FC			1.558	1.777	1.905		2.105	2.206					

ALERT: Do NOT activate them!

Remarks: @DRX the Make-To-Stock (MTS) and Make-To-Order (MTO) settings being used in the SD-Scheduling Agreements. Since the PIR ZVSF can only being maintained on MTS and the requirement types (e.g., 041/ Z001) does not allow offsetting – we **cannot use** this function of **Offsetting PIR ZVSF on finished material number level**.

Material 109144759-016
 Description Deckel EM-Box MQB37W
 MRP Area 1077 Plant 1077
 Plant 1077 MRP type PD Material type ZMAT Unit

Individual List Cross-Plant View

Days Weeks Months

Date	GR	ST...	Page	1 / 2
A. Period/Segment	Plnd ind.re...	Requirement	Receipts	Avail. Qua...
Stock				33.871
M 10/2021	0	55.032-	48.240	27.079
M 11/2021	0	112.608-	145.440	59.911
M 12/2021	0	97.210-	69.120	31.821
M 01/2022	0	120.368-	138.240	49.693
M 02/2022	0	121.744-	124.920	52.869
M 03/2022	150.000-	143.468-	123.480	117.119-
M 04/2022	150.000-	106.125-	99.720	273.524-
M 05/2022	0	125.820-	157.320	242.024-
M 06/2022	0	123.439-	89.280	276.183-
M 07/2022	0	84.214-	84.600	275.797-
M 08/2022	0	112.006-	126.000	261.803-
M 09/2022	0	97.438-	59.400	299.841-
SOrd.0600000203/000030				2.904
M 02/2021	0	1.056-	0	1.848
M 10/2021	0	0	9.240	11.088
M 11/2021	0	8.448-	0	2.640
M 12/2021	0	5.016-	3.960	1.584
M 01/2022	0	7.128-	7.392	1.848

Sched. Agr. SBI 600015203 Net Value 85.540,73 EUR
 Sold-To Party 5878000 Volkswagen Poznan Sp. Z.O.O. / Ul. Warszawska 349 / PL-61-
 Ship-To Party 5878010 Panop Logistics / Ul. Rahowicka 13 / PL-62-020 Swarzedz-Jasin
 Cust. Reference 000006 Cust. Ref. Date

Sales Item Overview Item detail Ordering party Procurement Shipping Reason for rejection

Item	Material	Pint	Confirmed Qty	SU	Mat.Av.Dt.	SLCa	RqTy
	10109144759-015	1077	360PC	09.07.2021	BN		041
Possible Entries:							
List of allowed requirement types							
Requirements type							
Requirements type							
011 Delivery requirement							
021 Unchecked order/delivery							
031 Order requirement							
041 Order/delivery requirement							
110 Dely of mat. to subcon/reserv.							

Sched. Agr. w/ Rel. 600000203 Net Value 115.911,84 EUR
 Sold-To Party 3186000 Kromberg & Schubert / Ungargasse 111 / 7350 Oberpfullendorf
 Ship-To Party 3186010 Transdanubia Logisztika Kft / Goebehaz Park 8 / H-9155 Lebany
 Cust. Reference 18719849 Cust. Ref. Date 30.07.2019

Sales Item Overview Item detail Ordering party Procurement Shipping Reason for rejection

Item	Material	Pint	Confirmed Qty	SU	Mat.Av.Dt.	SLCa	RqTy
	10109144759-016	1077	264PC	02.02.2021	BN		2001
Possible Entries:							
List of allowed requirement types							
Requirements type							
KSB2 Prod. lot plan for collect.mat							
KSL Sale frm stock w/o ind.req.red.							
KSV Sales order with consumption							
KSVS Stock with cons.w/o final ass.							
KSVV Stock with consum.of plng mat.							
LCO MktToStockProd + SalesOrder CO							
MSR Sales Ord.Stock w/o Consumt.							
SE Service itm with cost managmt							
SERA Service order							
SERP Repair service							
2001 MTO Production							
2002 Tool Manufacturing							

Setting on Component Level (activated Z0)

A) Retrieve component list (CS13H)

For the next steps you need to retrieve all related components on material number level. SAP offers some Standard transaction and here the CS13H helps. Please note that the CS13H only retrieves the Buy or purchase parts (F-parts). Since we only like to maintain forecast on buy parts the CS13H is the right one.

Here is the Selection Screen. Please download the Result into an Excel. This transaction needs to be made for all finished material numbers (in our example for 19 parts):

Then you create one Pivot sheet out of the 19 single BoM sheets to summarize all components. In our case we have deleted software part numbers (Description „non stock“) as well auxiliary materials (GER Hilfsstoffe). In the end we have retrieved

475 components.

B) Check or maintain Master Data

Pls. use new transaction to retrieve relevant master data:

ZPPR_MATERIAL_MASTER

You need to check if all marked master data is maintained. If not, please update via MDG Workflow 14:

Necessary Master Data ZVSF



Report-specific selections

Material Number	590004973-001			
Plant	1077	to		
Planning Strategy Group		to		

Necessary Master Data ZVSF

All data available!

Material	Plnt	ProcType	SG	Consumption mode	Bwd cons. per.	Fwd cons.period	Mx
590004998-001	1077	F	Z4	2	035	010	1
590004997-001	1077	F	Z4	2	035	010	1
590004995-001	1077	F	Z4	2	035	010	1
590004990-001	1077	F	Z4	2	035	010	1
590004978-001	1077	F	Z4	2	035	010	1
590004975-001	1077	F	Z4	2	035	010	1
590004974-001	1077	F	Z4	2	035	010	1
590004973-001	1077	F	Z4	2	035	010	1
590004990-002	1077	F	Z4	2	035	010	1
590004996-001	1077	F	Z4	2	035	010	1
590004991-001	1077	F	Z4	2	035	010	1

Here are some examples how these parameters control the offsetting but in generally this setting allows that PIR-ZVSF are being offset by material reservations within a month.

Prognosebedarfe

Periodenkennzeichen: M GeschJahresvariante: ☐ Aufteilungskennz.: ☐

Vorplanung

Strategieggruppe: 27 IC: Endmontage, Baugruppenverrechnung

Verrechnungsmodus: 2 Verint Rückwärts: 35

Verint Vorwärts: 10 Mischdisposition: ☐

Vorplanmaterial:

VorplUmrechFaktor:

Vorplanungswerk:

Vorplanungs-BME:

2. Methode

- VSF werden periodisch gepflegt, d.h. Monat oder Woche
- SAP vergibt der Periode das Datum des 1. Arbeitstages, z.B. Monat August = 02.08.2021
- Verrechnungsmodus „2“ legt fest, dass zuerst 10 AT über Parameter „Verint Vorwärts“ vorwärtsgerechnet wird; erst wenn es nach vorne keine Kundenbedarfe gibt (sehr selten), wird die Rückwärtsrechnung mit 35 AT (Parameter „Verint Rückwärts“) angewendet
- Z.B. VSF Febr. 21 → 01.02.2021 → 10 AT nach vorne → 18.01. von dort aus werden dann bis max. dem gesamten Monat Febr. 21 etwaige Kundenbedarfe verrechnet → im

A) Split from Monthly to Daily for Z4 PIR-ZVSF Finished Materials

But before we need to split the monthly PIR ZVSF on finished material level to daily via transaction MD67. Please run firstly „Test Run“:

If the result is ok (monthly split into daily) then return and untick „No database changes (simulation) to actively overwrite the PIR in MD63 table:

B) Simulation Run (MS04/ MS01)

The simulation run MS01 is actively being started and no daily job being set. The last result of a Simulation MRP (MS01) can be retrieved via MS04. Our MRP Planning Scenario is 004:

Now the manual simulation MRP can be started via MS01 with following setting. The run can last between 20-45 mins.:

Long-Term Planning Run		
MRP Planning Scenari	004	
Scope of planning	Z001	
Plant	I	
MRP control parameters		
Processing key	NEUPL	Regenerative Planning
Create MRP list	1	MRP list
Planning mode	3	Delete and recreate planning data
Scheduling	2	Lead Time Scheduling and Capacity Planni
With Firm Planned Orders	1	Use setting in planning scenario
Process control parameters		
☒ Parallel processing		
☒ Display material list		

You can see the progress in such a processing screen:

Long-Term Planning Run in Parallel Processing



Low-Level Code	999
No.of plnd materials	21999
Plng run time	00:11:33

RFC Destination	Status	Number	PlgRunTime
NONE	Working	4412	00:10:28
NONE	Working	4401	00:03:01
NONE	Working	4395	00:03:28
NONE	Working	4395	00:04:50
NONE	Working	4396	00:03:40

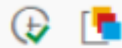
After the MRP is finished you can make a random check (MS04) if the simulation demand is being calculated correctly:

The resulted requirements will be transferred in a next step into the real world:

C) Transfer Simulation Requirements of Components to Real World (MS66)

In the previous steps above, you have a master list of the components. Via transaction MS66 you have to select the 475 part numbers and fill it into the selection screen as follows. Please use „Test Run“ and enter/ confirm alerts „Date will be displaced to the next earlier workday...“. The transaction will take a while!

Copying Simulative Dependent Requirements



Selection

Planning Scenario

4

Plant

1077

Material

107371109-015

to



**475 components
from master list**

Aggregation

T

Selection Period

Date

T

01.02.2022

To

31.12.2023

Reqmt Parameters

Reqmts Plan

Target Version

20

☒ Planning at assembly level

☐ Planning at phantom assembly level

Reqmt Type

Reqmt Type

☒ Target version active

☒ History

☐ Round reqmt qties

Mode

☒ Test run (no changes made to database)

**First run Test
Run!**

Output Options

☒ Result List

Output Format

☒ Detailed Lists

- ☐ Incorrect Items Only
- ☐ W/o Sched. Lines

Result screen will show you if all simulation demand could be written into the MD63 of the real world.

ALERT: The result shows only the material which can be load in. If for example a component does not have the Strategy group, this number will not be shown. In our case we have 475 materials but only 474 could be loaded:

Copying Simulative Dependent Requirements



25.01.2022

Copying Simulative Dependent Requirements

Simulation Display frm 25.01.2022 At 19:49:36 Time

Items Selected Altogether	474
OO■ Items with Successful Transfer	474
O△○ Items Without Transfer	0
●○○ Items with Errors	0

But the one material with missing Z4 not being displayed!

Status Material		Plnt	MRP Area	RqTy	DV	ReqmtsPlan	Total planned qty	BUn
P Reqmts dt.	Planned qty BUn	Proc.	Status	MT	Msg.	Message Text		
 OO■	107371109-015	1077	1077		ZVSF	Z0	128.213	PC
 OO■	108368434-003	1077	1077		ZVSF	Z0	121.296	PC
 OO■	108368437-004	1077	1077		ZVSF	Z0	113.932	PC
 OO■	108605098-004	1077	1077		ZVSF	Z0	113.399	PC
 OO■	108681772-005	1077	1077		ZVSF	Z0	113.349	PC

But the one material with missing Z4 not being displayed!

To retrieve the missing material, you have to make a download as „unconverted“ file and later upload the text file into Excel and make a VLOOKUP with your master component list.

In our case this material is being blocked by MDG in plant 1178, so plant 1077 cannot make the update:

Display Material 590004121-001 (MRP 3, General materials)

Additional Data Org. Levels

Material

Material	590004121-001	
	BAS40S-AU_R1_000A1	Validity

MRP 2 MRP 3 MRP 4 Work scheduling Plant data / stor. 1

Plant 1077 DPL Braunau Production

Forecast Requirements

Period Indicator	W	Fiscal Year Variant		Splitting indicator	
------------------	---	---------------------	--	---------------------	--

Planning

Strategy Group	
Consumption mode	
Fwd consumption per.	0

Blocked by MDG in plant 1178

Bwd consumption per.	0
Mixed MRP	1

After you made the check return again to MS66 and untick the „Test Run“ to copy the simulation requirements into MD63 real world.

You can check the new PIR ZVFS via MD63 and now you can see that they are activated:

Via MD04 you can see how the offset being done and MM-scheduling lines being created for the future:

Material

Description

MRP Area Plant 1077

Plant MRP type Material type Unit Ex. manuf.

**Real demand via.
Exceeding PIR-ZVSF reservations (SD-SA)
(offsetting)**

Days Weeks **Months**

Date  GR  Page 1 / 1

A..	Period/Segment	Plnd ind.re...	Requirement	Receipts	Avail. Qua...	ATP quan...	Actu...
	M 06/2022	0	28.050-	18.000	39.059	6.144	41,0
	M 07/2022	0	18.396-	18.000	38.663	0	30,9
	M 08/2022	8.229-	15.060-	18.000	33.374	7.500	27,2
	M 09/2022	9.918-	20.640-	36.000	38.816	3.900	27,0
	M 10/2022	0	18.060-	18.000	38.756	0	17,1
	M 11/2022	14.942-	29.700-	18.000	35.118	0	9,1
	M 12/2022	28.896-	2.100-	54.000	35.118	40.860	8,5
	28.12.22 End of Planni						
	M 01/2023	50.547-	22.140-	45.000	7.431	36.000	7,0
	M 02/2023	21.864-	22.140-	63.000	26.427	33.480	7,7
	M 03/2023	29.469-	32.760-	54.000	18.198	28.620	9,5
	M 04/2023	38.713-	0	45.000	24.485	40.860	5,9
	M 05/2023	18.432-	27.900-	48.000	26.153	11.100	5,3
	M 06/2023	16.025-	44.280-	45.000	10.848	13.860	5,5
	M 07/2023	35.220-	0	57.000	32.628	43.860	7,0
	M 08/2023	22.611-	27.900-	54.000	36.117	22.860	9,0
	M 09/2023	21.692-	38.520-	45.000	20.905	22.860	9,3
	M 10/2023	40.545-	0	36.000	16.360	36.000	8,6
	M 11/2023	32.238-	0	25.481	9.603	25.481	12,0
	M 12/2023	9.603-	0	0	0	0	0,0

**Creation of
MM-call-offs**

Reorganizing Indep. Reqmt. (MD74)

Alert: Please use this only for materials with version Z0/ Z4 (for plants). The version 00 is being used by pre-series ALK and they apply this procedure by themselves.

As you can see the PIR ZVSF have a strong impact on MRP planning. If the real demand is higher the PIR ZVF will be consumed. On the other hand, if the real demand is not as high the PIR ZVSF are increasing the demand. In addition, we have activated the Firm zone and the demand from PIR ZVSF and real demand have created scheduling lines / call-off to suppliers which will not be changed inside the firm zone. If the real demand is decreasing or a technical change is occurring, we have a high risk of exceeding or obsolete materials. On the other hand, you have a tool to secure your supply chain, so you avoid out-of-stock situations in the future.

To reduce this risk, you should run the MD74 at least every two weeks to delete the PIR ZVSF in the short-term horizon. At that stage the firm zone already applies, and the real demand should be valid and most likely not being changed anymore. Hence the exceeding PIR ZVSF should not create any further demand. After the MD74 run the next MRP will reduce further call-offs out of the firm zone by the reduced/ deleted PIR ZVSF. The risk of further exceeding or obsolete materials can be reduced.

The Key Date should be min. 6 weeks in the future. Selection screen is as follows based on today 25.01.2022. The transaction takes a while:

Reorganizing Indep.Reqmts - Adjusting Requirements (PlndIndRe)

 **MD74**

Plant	1077	to	
Material		to	
Requirements Type		to	
Version		to	
Requirements Plan Number		to	
Ext. Requirements Plan ID		to	
MRP Area		to	
Requirement Segment		to	

Key Date **08.03.2022** For Plants Without Reorganization Period

☒ Write History
☒ Delete Inactive Versions Before the Key Date
☐ Deactivate Requirements

☒ Create List
☒ Test Mode (No Database Changes)

Run firstly with test mode!

The result shows you the PIR ZVSF which would be deleted if you untick the „Test Run“:

Training Video ZVSF-MFA2 Platines MFA

Short-Cut: ZSVF being consumed with SD primary demand or MM scheduling lines (e.g., Interco)

The above mentioned "long" work-around was designed under following conditions:

- Using SAP module "Integrated Business Planning" (IBP)
- Using not only MTS-SD's but also MTO-SDs

Since IBP was descoped the only existing condition are the MTO-SDs which mainly being used when a material number being shipped to our customers in different packages (e.g., cartonnage for overseas).

The following ZVSF planning strategy can be used in following cases on finished goods level where primary demands come from customer demand (SD-elements VA03 and/ or VA33):

- for the relevant material number anyhow only MTS-SDs exists
- the MTO-SDs can be neglected, or this demand needs to be manually considered by reducing the ZVSF with the MTO-SD's demands

Normally this ZVSF planning strategy is the standard method in SAP for discrete manufacturing and will be explained now. When you do not have SD's but MM-scheduling lines instead (e.g., Interco) than skip the chapter with the SD's:

Every primary demand like customer SD's or planned independent requirements (ZVSF) do have a Requirement Type (GER Bedarfsart). First you need to define a Requirement Class (GER Bedarfsart) via OVZG. The main Class as well Type in current DRX setting is 041 Order/delivery reqmt:

By the ticks "AvC" (Availability Check) and "Rq" (Transfer of requirements) the transfer to MRP planning being done. In customizing transaction OVZG the class and the more important requirement type being linked:

The 3rd configuration is the determination of the respective requirement type (GER Bedarfsklasse) via "Item Category" and MRP type. The current DRX customizing is as follows:

So, for the major SD's we have set Requirement Class "041" which **does not** make a consumption with PIR = ZVSF! Since GBS is maintaining the relevant Item Category of the SD the Requirement Class "041" is automatically being set:

Sched. Agr. w/ Rel. 600001557 Net Value 0,00 EUR

Sold-to Party 5821000 SE Bordnetze Polska Sp. z o.o. / Ul. Franciszka Walczaka 25 / PL-66-400 G...

Ship-to Party 5821010 SE Bordnetze Polska Sp. z o.o. / Ul. Franciszka Walczaka 25 / PL-66-400 G...

Cust. Reference 153778 Cust. Ref. Date 04.03.2020

Sales Item Overview Item detail Ordering party **Procurement** Shipping Reason for rejection

Item Category ZLZN
Normal MTS

All Items

Item	Material	Plnt	Confirmed Qty	SU	Mat.Av.Dt.	SLCa	RqTy	I. A D	Delivery Date	N..	ATP
10	109162986-001	1077	0,000	PC			041				

No consumption!

When you like to use consumption on primary demand level you have to options:

1. You change customizing as follows
2. You maintain via a new Pos. the "RqTy" to KSV

New Customizing														
ItCa	Typ	RqTy	Requirements type	Src	SchLC	AvC	Rq	AllIn	ReqCl	AvC	Rq	MTS/MTO	Variant	Result
ZLZN		41	Order/delivery requirement	1	L1	X	X		KSV	X		MTS	MTS Sched.Agreement Item external (GER Lieferplanposition external)	MTS consumption
ZLGT		41	Order/delivery requirement	1	Z1	X	X		KSV	X		MTS	Sched. Agreement Intercompany GiT (Gutschriftsverfahren)	MTS consumption
ZLIC		41	Order/delivery requirement	1	L1	X	X		KSV	X		MTS	Sched. Agreement Intercompany Invoicing	MTS consumption
ZLZE	Z001		MTO Production	1	L1	X	X		Z01	X		MTO	MTO Production	Not possible

Sched. Agr. SBI Net Value EUR

Sold-to Party Bayerische Motorenwerke AG / Postfach 40 02 40 / 80788 München

Ship-to Party BMW Group Wk 7.4 / Rosenhofer Str. 6-8 / 93073 Neutraubling

Cust. Reference Cust. Ref. Date

Sales Item Overview Item detail Ordering party **Procurement** Shipping Reason for rejection

Fore.DLSch JIT DLSch

All Items																	
Item	Material	PInt	Confirmed Qty	SU	Mat.Av.Dt.	SLCa	RqTy	I.	A	D	Delivery Date	N..	ATP Quantity	Loading Date	Route	P.. D..	
	70190052630-011	1077		67PC	24.10.2023	BN	041			D	25.10.2023	✓		0	24.10.2023	ATDE11	0
				67PC	24.10.2023	BN				D	26.10.2023	✓			24.10.2023		
				67PC	25.10.2023	BN				D	27.10.2023	✓			25.10.2023		
				67PC	27.10.2023	BN				D	30.10.2023	✓			27.10.2023		
				67PC	30.10.2023	BN				D	31.10.2023	✓			30.10.2023		
	80190052630-012	1077		1.200PC	31.10.2022	L1	KSV			D	02.11.2022	✓		0	31.10.2022	ATDE11	0
				1.200PC	08.11.2022	L1				D	09.11.2022	✓			08.11.2022		
				1.200PC	29.11.2022	L1									29.11.2022		
				240PC	09.12.2022	L1				D	12.12.2022	✓			09.12.2022		

Consumption possible!

Stock/Requirements List: Period Totals as of 12:08 hrs

Show Overview Tree

MD01N ME33L ZMM_246N_MONITOR

Material

190052630-012

DescriptionHALTER NOX SCU G05 G06 G07

MRP Area1077Plant 1077

Plant1077MRP typePDMaterial typeZMATUnitPC

Individual List

Cross-Plant View

Days

Weeks

Months

Page2 / 2

A..	Period/Segm...	Pind ind.req...	Requirement	Receipts	Avail. Quantity	ATP quantity	Actual C...
M	03/2023	0	3.960-	0	11.278-	3.960-	14,0-
M	04/2023	0	3.920-	19.200	4.002	12.160	20,4
M	05/2023	0	3.289-	3.600	4.313	1.908	13,5
M	06/2023	1.867-	3.703-	14.400	13.143	10.688	9,7
M	07/2023	11.472-	3.538-	3.600	1.733	0	14,9
M	08/2023	0	2.505-	2.400	1.628	0	14,2
M	09/2023	0	2.433-	1.200	395	0	6,4
M	10/2023	0	1.444-	1.200	151	0	999,9

Consumption on primary demand level (SD 60001556-KSV)

Plnd Ind. Reqmts Display: Planning Table

Planning start03.04.2023Planning End20.05.2024

Table

Items

Schedule Lines

K

<<

<

>

>>

X

Plnd Ind. Reqmts	Material	MRP A...	V	A	BU	Req. Segment	M 05.2023	M 06.2023	M 07.2023
	190052630-012	1077	00	✓	PC		2.000	10.000	15.000

PIR = ZVSF (MD63)

Pind Ind. Reqmts Display: Planning Table									
Compare History									
Planning start 03.04.2023 Planning End 20.05.2024									
Table Items Schedule Lines									
K << < > >>									
Material	MRP A...	V	A	BU	Req. Segment	M 05.2023	M 06.2023	M 07.2023	
190052630-012	1077	00	✓	PC		2.000	10.000	15.000	
PIR = ZVSF (MD63)									

Before the Planning Strategy parameters needed to be maintained in MRP3 (normally automatically being done when material being created by MDG):

Material			
Material	190052630-012		
	HALTER NOX SCU G05 G06 G07		Validity

	MRP 2		MRP 3		MRP 4	Work scheduling	Plant data / stor. 1	Plant data / stor. 2		
--	-------	--	-------	--	-------	-----------------	----------------------	----------------------	--	--

Plant	1077	DPL Braunau Production	
-------	------	------------------------	--

Forecast Requirements			
Period Indicator	W	Fiscal Year Variant	
		Splitting indicator	

Planning			
Strategy Group	Z4	Plngg w. fin. ass+cons. d.req.	
Consumption mode	2	Bwd consumption per.	10
Fwd consumption per.	35	Mixed MRP	
Planning material		Planning plant	
Plng conv. factor		Planning matl BUnit	

The definition of Strategy Group Z4 is as follows where a consumption on primary demand level is possible when Reqmt type KSV is maintained in the SD (VA33):

Strategy

Z4 Plngng w. fin. ass+cons. d.req.

Requirements type of independent requirements

Reqmts type for indep.reqmts

ZVSF

Plngng w. fin. ass+cons. d.req.

Reqmts class

Z11

Plngng w. ass.+cons.

Consumption

3

Consume planning material (w/o assembly)

Planning Ind.

1

Net requirements planning

**Consumption
between
ZVSF and SD**

Requirements type of customer requirements

Reqmt type of customer reqmt

KSV

Sales order with consumption

Requirements class

050

Warehouse consumpt.

Allocation indicat.

1

Consume planning with assembly

No MRP

Requirement planned

☒ Availability check

Acct Assgmt Cat

☒ Requirement transfer

Settlement profile

☐ Req. Reduct.

Results analysis key

Assembly order

Assembly type

0

No assembly order processing

Online assembly

☐

Order Type

Capacity Check

☐

☐ Component availability

Configuration

Configuration

☐

Config. Consumption

☐

Change View "Requirements Classes": Overview

OVZG

New Entries

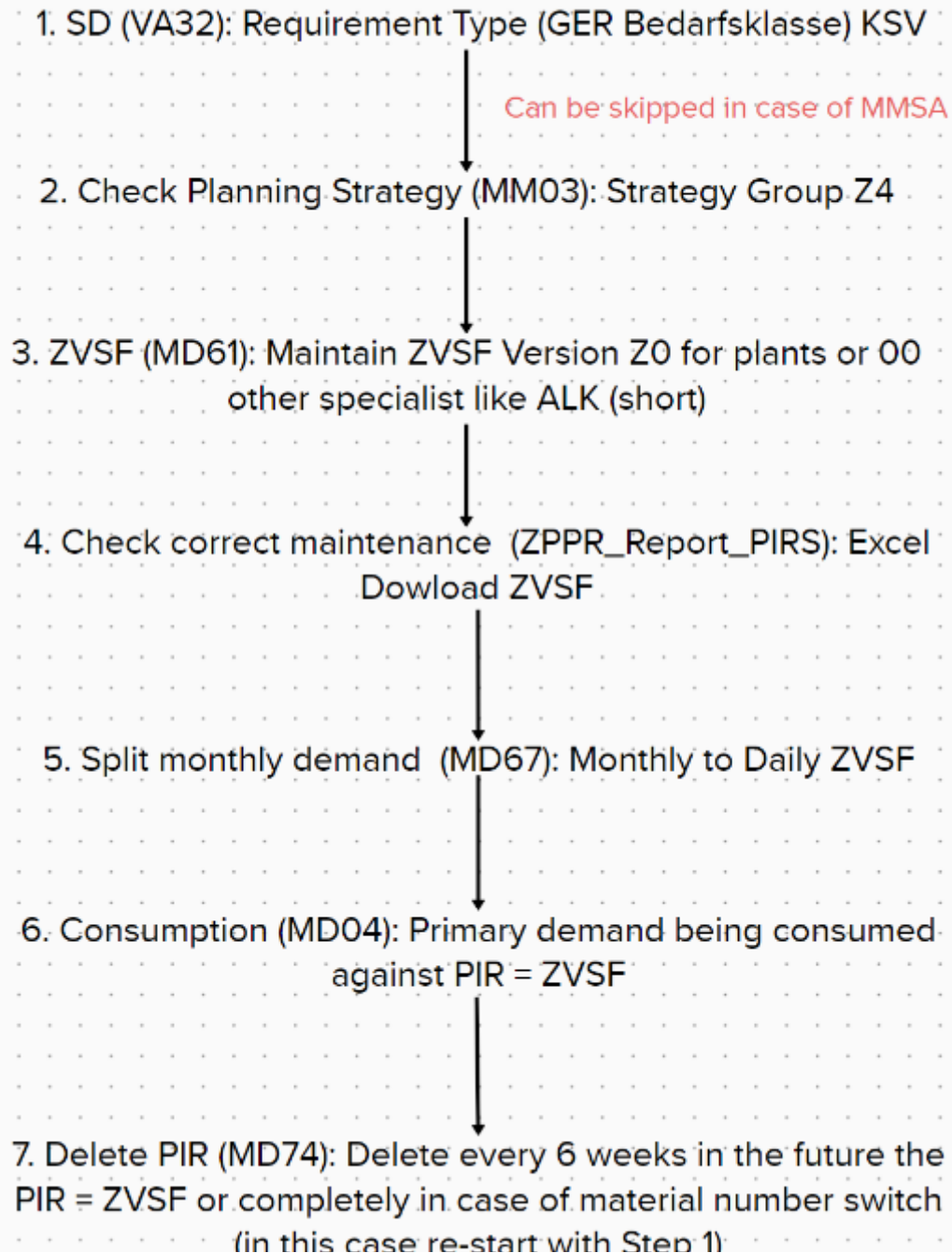
ReqCl	Description	AvC	Rq	AllIn
050	Warehouse consumpt.	☒	☒	1
060	Mke->O.Cons. plngMat	☐	☒	3
061	Mk->O. MatVar.PlgMat	☐	☒	3
070	Wkshp cons plng mat	☐	☒	3

Allocation Indicator (1) 4 Entries found

Allocation indicat.	Short Description
	No consumption with customer requirements
1	Consume planning with assembly
2	Consume planning w/o assembly
3	Consume planning material (w/o assembly)

Now the "short" cut can be executed as follows:

Consumption PIR = ZVSF with SDs or MM-SA



Step 3: MD61 Version Z0 for plants or 00 for another specialist like ALK in Month

Planned Independent Requirements for

☒ Material 108216253-019

☐ Product group

☐ Requirements Plan

☐ Ext. Req. Plan

MRP Area

Plant 1178

Define Version

Version 00 REQUIREMENTS PLAN

Planning Horizon

From 21.04.2023 To 25.05.2024 Planning period M Month

Use Version 00
for short-cut and
Z4 & Z0 for
"long" way

Planning start 03.04.2023 Planning End 25.05.2024

Table Items Schedule Lines										
K	<<	<	>	>>	X					
Material	MRP ...	V	A	BU	Req. Segment	M 04.2023	M 05.2023	M 06.2023	M 07.2023	M 08.2023
108216253-019	78	00	☒	PC			2.000		15.000	60.000
		00	☒							

Tick must be activated (normally automatically)

Step 4: ZPPR_Report_PIRS to make Excel download to check if qty. being maintained correctly:

Report of maintained PIRs **ZPPR_Report_PIRS**

Export **Excel**

Plant	Material	ReqmtsPlan	DV	Act	Delet.	nd.	Co	date	Plan Qty	Unit
1178	108216253-019		00	X				01.07.2023	2.000	PC
1178	108216253-019		00	X				01.07.2023	15.000	PC
1178	108216253-019		00	X				01.08.2023	60.000	PC

Step 5: MD67 Split monthly demand to daily (1st step test mode if ok 2nd real mode):

Staggered Period Split

MD67



Selection

Plant	1178	to	
MRP area		to	
MRP controller		to	
Material	108216253-019	to	
Requirements Type		to	
Version	00	to	

Selection period

Date 01.01.2023 to 31.12.2023

Period splitting

Period split 20001

Reqs Parameters

☒ History

Mode

☒ No database changes (simulation)

1. step test with tick
2. step real without tick

Output Options

☒ Results List

Output Format

☒ Detailed List

☐ Only Faulty Records

☐ W/o Sched. Lines

Staggered Period Split

Step 6: MD04 check if consumption looks fine:

Material	108216253-019	
Description	POJ1 DIUS 2054_07_04_04 SW_03_10_30 incl	
MRP Area	1178	DAR Timisoara Production
Plant	1178	MRP type PD Material type ZMAT Unit PC

Individual List

Cross-Plant View

MD04

Days

Weeks

Months

Date	GR	ST...	Page	1 / 1			
A.. Period/Se...	Plnd ind.re...	Requirement	Receipts	Avail. Qua...	ATP quan...	Actual...	
Stock		Consumption		0	0	22,0-	
M 03/2023	0	0	80	80	0	31,0	
M 04/2023	0	22-	728	786	0	9,5	
M 05/2023	0	5.500-	4.714	0	0	0,0	
M 06/2023	0	5.700-	6.352	652	0	0,5	
M 07/2023	7.437-	5.398-	4.746	7.437-	0	40,0-	
M 08/2023	48.660-	2.700-	2.700	56.097-	0	999,9-	
M 09/2023	0	5.400-	5.940	55.557-	0	999,9-	
M 10/2023	0	5.400-	4.860	56.097-	0	999,9-	
M 11/2023	0	5.200-	5.575	55.722-	0	999,9-	
M 12/2023	0	3.000-	2.925	55.797-	0	999,9-	
M 01/2024	0	3.000-	2.700	56.097-	0	999,9-	

Either you wait for the night job for MRP (MD01N) or you manually execute MRP (MD01N)

Step 7: MD74 on a weekly basis (e.g., every Monday) the maintained PIRs should be deleted for the upcoming weeks since then only the "real" customer demand should be valid. In case you have a material number switch you also can delete all demands but I recommend to delete them via MD62:

Reorganizing Indep. Requirements - Adjusting Reqmts (PlndIndReq)



MD74

Plant	1178	to	
Material	108216253-019	to	
Requirements Type		to	
Version	00	to	
Requirements Plan Number		to	
Ext. Requirements Plan ID		to	
MRP Area		to	
MRP Controller		to	
Requirement Segment		to	

Key Date 02.06.2023

Rel. Key Date with Reference to Execution Date

- ☒ Write History
- ☒ Delete Inactive Versions Before the Key Date
- ☐ Deactivate Requirements

- ☒ Create List
- ☒ Test mode (No database changes)

1st Test mode
2nd Real mode (no tick)

MRP Area	Plant	Material	RqType	Version	Active
Del/finish	Planned quantity	Withdrawal Qty	Allocated qty	BUn	
1178	1178	108216253-019	ZVSF	00	☒
02.05.2023	91	0	0	PC	
03.05.2023	91	0	0	PC	
04.05.2023	91	0	0	PC	
05.05.2023	91	0	0	PC	
08.05.2023	91	0	0	PC	
09.05.2023	91	0	0	PC	
10.05.2023	91	0	0	PC	
11.05.2023	91	0	0	PC	
12.05.2023	91	0	0	PC	
15.05.2023	91	0	0	PC	
16.05.2023	90	0	0	PC	
17.05.2023	91	0	0	PC	
18.05.2023	91	0	0	PC	
19.05.2023	91	0	0	PC	
22.05.2023	91	0	0	PC	
23.05.2023	91	0	0	PC	
24.05.2023	91	0	0	PC	
25.05.2023	91	0	0	PC	
26.05.2023	91	0	0	PC	
29.05.2023	91	0	0	PC	
30.05.2023	91	0	0	PC	
31.05.2023	90	0	0	PC	

Would be
deleted!

Reorganizing Indep. Requirements - Adjusting Reqmts
(PlndIndReq)

Key Date per Plant

Plnt	Period	Key date
1178		02.06.2023

6 weeks
ahead

Current date: 21.04.2023

Material	L08216253-019				
Description	POJ1 DIUS 2054_07_04_04 SW_03_10_30 incl				
MRP Area	1178	DAR Timisoara Production			
Plant	1178	MRP type	PD	Material type	Z

Individual List

Cross-Plant View

MD04

Days

Weeks

Months

Date	Plnd ind.re...	Requirement	Receipts	Avail. Qua...
26.05.23	0	0	675	675
29.05.23	0	1.350-	675	0
02.06.23	0	0	675	675
06.06.23	0	1.350-	675	0
09.06.23	0	0	725	725
12.06.23	0	1.450-	725	0
16.06.23	0	0	725	725
19.06.23	0	1.450-	725	0
23.06.23	0	0	725	725
26.06.23	0	1.450-	725	0
30.06.23	0	0	652	652
03.07.23	0	1.303-	651	0
07.07.23	0	0	652	652
10.07.23	0	1.303-	651	0
11.07.23	229-	0	0	229-
12.07.23	715-	0	0	944-
13.07.23	714-	0	0	1.658-
14.07.23	498-	0	466	1.690-
17.07.23	0	931-	465	2.156-

To delete all PIRs use MD62:

Planned Independent Requirements for

☒ Material	108216253-019
☐ Product group	
☐ Requirements Plan	
☐ Ext. Req. Plan	
MRP Area	1178
Plant	1178

MD62

Selection Parameters

Requirements type		
☐ Selected version	00	REQUIREMENTS PLAN
☒ All active versions		
☐ All active/inactive versions		

Planning Horizon

From	21.04.2023	To	25.05.2024		Planning period	M	Month
------	------------	----	------------	--	-----------------	---	-------

Plnd Ind. Reqmts Change: Planning Table

Compare Delete History

Planning start 03.04.2024 05.2024

Table Items Schedule Lines

1. Select Line

Material	MRP ...	V	A	BU	Req. Segment	M 04.2023	02.05.20...	03.05.20...
108216253-019	1178	00	✓	PC				

PS4(1)/500 Delete Reqmt

Do you want to delete the selected items?

3. Confirm "Alert"

Yes No Cancel

Double-Check either with MD04 or run Excel report ZPPR_Report_PIRS:

Material

108216253-019

Description

POJ1 DIUS 2054_07_04_04 SW_03_10_30 incl

MRP Area

1178

DAR Timisoara Production

Plant

1178

MRP type

PD

Material type

ZMAT

Unit

PC

Individual List

Cross-Plant View

MD04

Days

Weeks

Months

No PIRs

Page

1 / 1

A..	Period/Se...	Plnd ind.re...	Requirement	Receipts	Avail. Qua...	ATP quan...	Actu...
	Stock				0	0	22,0-
	M 03/2023	0	0	80	80	0	31,0
	M 04/2023	0	22-	728	786	0	9,5
	M 05/2023	0	5.500-	4.714	0	0	0,0
	M 06/2023	0	5.700-	6.352	652	0	0,5
	M 07/2023	0	5.398-	4.746	0	0	0,0
	M 08/2023	0	2.700-	2.700	0	0	0,0
	M 09/2023	0	5.400-	5.940	540	0	0,5
	M 10/2023	0	5.400-	4.860	0	0	0,0
	M 11/2023	0	5.200-	5.575	375	0	0,5
	M 12/2023	0	3.000-	2.925	300	0	0,5
	M 01/2024	0	3.000-	2.700	0	0	0,0

Contact



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LINKS



[synapsis Knowledge Transfer SCM](#)