

4.2.2c - Planning elements from SAP

- General note for: Firm shipment (FS), In transit (ITI), and Sales Order book (SOB) and External Purchase Order (EPO) flows:
- Backorder
- External Purchase Order
- Firm Shipments in Shipping date 1/3
- Firm Shipments in Shipping date 2/3
- Firm Shipments in Shipping date 3/3
- Intransit inventory in receipt date
 - We have 2 types of flows.
- Process Orders
- Sales order book in ETA

General note for: Firm shipment (FS), In transit (ITI), and Sales Order book (SOB) and External Purchase Order (EPO) flows:

- On FS / ITI / Sales Order Book : in case of a Consignment flow, Receiving site code might be transcoded from "Consignment plant" to "Shipto code". More info in this section [Consignment plant -> Shipto transco](#)
- On External Purchase Order (EPO): in case of non standard SAP flow (or "Unlinked flow", or flow "SO - PO"), we will use the BW table ZMATVENDOR to exclude some Material x Vendor flows, so it might affect content of BW_EPO file. Please consult [ZMATVENDOR](#) section for more information,

Backorder

Backorder: Deliveries + Sales Order of the [SAP](#) transaction code **MD04** whose date < current date (in the following example, the current day is the 17/12 /2018).

Stock/Requirements List as of 23:31 hrs

Show Overview Tree

Material: 31851 SL
Plant: DESA MRP type: PD Material Type: ZT00 Unit: XG

Individual List Cross-Plant View

A. Date	MRP ...	MRP element data	Reschedul...	E...Receipt/Reqmt	Available Qty	Pr...	St...
17.12.2018	Stock				2.436.901,526		
25.03.2016	DepReq	30156		2.500.000,000,000- 2.497.563,098,474-		MGPF	
12.09.2018	DepReq	30156		250.000,000,000- 2.747.563,098,474-		MGPF	
21.09.2018	Deliv.	0071636259/000010/0...		25.000,000- 2.747.563,098,474-		MGPF	
27.09.2018	Deliv.	0071645669/000010/0...		25.000,000- 2.747.613,098,474-		MGPF	
28.09.2018	Deliv.	0071645672/000010/0...		25.000,000- 2.747.638,098,474-		MGPF	
06.10.2018	Deliv.	0071666116/000010/0...		25.000,000- 2.747.663,098,474-		MGPF	
10.10.2018	DepReq	160854		6.250,000- 2.747.669,348,474-		MGPF	
12.10.2018	Deliv.	0071676567/000010/0...		25.000,000- 2.747.694,348,474-		MGPF	
18.10.2018	Deliv.	0071678296/000010/0...		25.000,000- 2.747.719,348,474-		MGPF	
25.10.2018	Deliv.	0071695941/000010/0...		25.000,000- 2.747.744,348,474-		MGPF	
29.10.2018	Deliv.	0071695638/000010/0...		25.000,000- 2.747.769,348,474-		MGPF	
07.12.2018	Order	0005118214/000120/0...		1.568,000- 2.747.770,908,474-		MGPF	
07.12.2018	DepReq	30156		25.000,000,000- 2.772.770,908,474-		MGPF	
08.12.2018	DepReq	30156		25.000,000,000- 2.797.770,908,474-		MGPF	
09.12.2018	DepReq	30156		25.000,000,000- 2.822.770,908,474-		MGPF	
12.12.2018	Deliv.	0071757542/000010/0...		25.000,000- 2.822.795,908,474-		MGPF	
12.12.2018	DepReq	160854		12.500,000- 2.822.808,408,474-		MGPF	
13.12.2018	Order	0005123493/000040/0...		880,000- 2.822.809,288,474-			
13.12.2018	Order	0005123493/000050/0...		1.280,000- 2.822.810,568,474-			
14.12.2018	Order	0005122016/000110/0...		1.140,000- 2.822.811,708,474-			
14.12.2018	Order	0005126788/000010/0...		1.780,000- 2.822.813,488,474-			

I001 - Independant demand Imported

SKU	Start	End	Data fields
61049x456 / 0			I002 Backorder Sales order book [KG]
31851S@307728S	17/12/18	17/12/18	3 940
31851S@307763S	17/12/18	17/12/18	227 700
31851S@346340S	17/12/18	17/12/18	25 000



Current interface cumulates all these SO + Del on the current date, it's also possible to not accumulate them and place them on their respective dates

External Purchase Order

[SAP](#) Transaction **MD04** allow the user to view the Stock/Requirement List please check the Individual List tab

Stock/Requirements List as of 04:36 hrs

MD04

Show Overview Tree Material description Status Delivery Priority

Material 11512 METHYL D-LACTATE BULK
Plant 8047 MRP Type ZN Material Type ZMAT Unit KG

Individual List Product Group Cross-Plant View

A..	Date	MRP ele...	MRP element data	Exception	Receipt/Reqmt	Available Qty	Sto...	R...
	16. 10. 2019	POitem	4503512178/00100		20. 000	396. 699, 200	00V1	100
	16. 10. 2019	POitem	4503512195/00100		20. 000	416. 699, 200	00V1	100
	18. 11. 2019	POitem	4503512178/00110		20. 000	436. 699, 200	00V1	100
	18. 11. 2019	POitem	4503512195/00110		20. 000	456. 699, 200	00V1	100
	17. 12. 2019	POitem	4503512178/00120		20. 000	476. 699, 200	00V1	100
	17. 12. 2019	POitem	4503512195/00120		20. 000	496. 699, 200	00V1	100

I400 - Distribution imported datas (day) - I400 External purchased orders

SKU	Start	End	I400 External purchased orders [KG]
47076x458 / 0			
11512R@8047R	16/12/19	16/12/19	32 000
	28/08/19	28/08/19	300 000
	17/09/19	17/09/19	40 000
	16/10/19	16/10/19	40 000
	18/11/19	18/11/19	40 000
	17/12/19	17/12/19	40 000
115249R@7758R	28/08/19	28/08/19	3 000

DiP

Firm Shipments in Shipping date 1/3

Firm Shipments correspond to the Delivery + SO in the **SAP** Transaction **MD04** Stock/Requirements List

I400 - Distribution imported datas (day) - I400 Firm Shipment in shipping

SKU	Site	Start	End	I400 Firm Shipment in shipping [KG]
203070S@ROABS	320395S	17/01/18		25 000
		26/01/18	26/01/18	25 000
		19/02/18	19/02/18	25 000

Stock/Requirements List as of 06:37 hrs

MD04

Show Overview Tree Material description Status Delivery Priority

Material 203070 BIR Z 0/50 GMP+ S25 1PB P1200Q1HT ICN H
Plant ROAB MRP type PD Material Type 3700 Unit KG

A..	Date	MRP el...	MRP element data	Rescheduling...	E...	Receipt/Reqmt	Available Qty	P..	Sto...
	18. 01. 2018	Stock					25.000,000		
	15. 01. 2018	Delv.	0071214059/900001/0000			1.250,000-	23.750,000		PORT
	15. 01. 2018	Delv.	0071214059/900002/0000			23.750,000-	0,000		PORT
	26. 01. 2018	PIOrd.	1012493527/RS *	26.01.2018	15	50.000,000	150.000,000	01	MGPF
	26. 01. 2018	Delv.	0071205057/000010/0000			25.000,000-	125.000,000		MGPF
	08. 02. 2018	Order	0004836647/000010/0001			25.000,000-	100.000,000		
	19. 02. 2018	Delv.	0071227622/000010/0000			25.000,000-	75.000,000		MGPF

Firm Shipments in Shipping date 2/3

For Deliveries:

Shipping date = MD04 date = **Picking Date**

SAP Transaction **MD04** to check Stock/Requirements List

Stock/Requirements List as of 06:37 hrs

Show Overview Tree

Material: 203070 BIR Z 0/50 GMP+ S25 1PE P1250Q1HT ICN H
Plant: ROAB MRP type: PD Material Type: 2700 Unit: KG

MD04

A..	Date	MRP el...	MRP element data	Rescheduling...	E..	Receipt/Reqmt	Available Qty	P..	Sto...
	18.01.2018	Stock					25.000,000		
	15.01.2018	Delv.	0071214059/900001/0000			1.250,000-	23.750,000		PORT
	15.01.2018	Delv.	0071214059/900002/0000			23.750,000-	0,000		PORT
	24.01.2018	PlOrd.	1012493527/RS *	26.01.2018	15	150.000,000	150.000,000	01	MGPF
	26.01.2018	Delv.	0071205057/000010/0000			25.000,000-	125.000,000		MGPF
	08.02.2018	Order	0004836647/000010/0001			25.000,000-	100.000,000		
	19.02.2018	Delv.	0071227622/000010/0000			25.000,000-	75.000,000		MGPF

Outbound delivery 71227622 Display: Header Details

Ship-to party: 320395 KOFFOLK / P.O. Box 1098 / 49348 PETACH TIKVA

Processing Picking Loading Shipment Foreign Trade/Customs Financial Processing Admini

Dates

Date	Time	Event
19.02.2018	00:00	Picking
09.02.2018	00:00	Trans. Planning
19.02.2018	00:00	Loading
19.02.2018	00:00	Planned GI
19.02.2018	00:00	Delivery Date

Billing Date: 19.02.2018
Billing date: 19.02.2018

Scheduling

Firm Shipments in Shipping date 3/3

For Sales Order :

Shipping date = MD04 date = **Material Availability Date**

SAP Transaction **MD04** to check Stock/Requirements List

Stock/Requirements List as of 21:45 hrs

Show Overview Tree

Material: 135731 SL *DEVN S25 1MPT-CPE
Plant: DESA MRP type: PD Material Type:

MD04

Individual List Cross-Plant View

A..	Date	MRP el...	MRP element data	R
	13.04.2018	PlOrd.	1014008479/RS	0
	13.04.2018	Order	0004835960/000010/0...	0
	18.04.2018	PlOrd.	1014008480/RS	0
	18.04.2018	Order	0004835961/000010/0...	0

Display TD Standard Order 4835961: Schedule Line Data

Schedule Line Number: 10 1 Sched.line cat.: CP MRP

Material: 135731 SL *DEVN S25 1MPT-CPE

Sales Shipping Procurement

Confirmed quantity: 0,000 KG 1 KG <=>

Delivery date: D 25.05.2018 Arrival time: 00:00

Goods issue date: 18.04.2018 GI Time: 00:00

Loading date: 18.04.2018 Loading Time: 00:00

Material avail.date: 18.04.2018 Matl Staging Time: 00:00

Transportation Plan. Date: 17.04.2018 Tr. Plan. Time: 00:00

Intransit inventory in receipt date

We have 2 types of flows.

1/ standard flow with link between the 2 Plants (shipping and receiving): We will have only one Purchase Order

SAP Transaction MD04 to check Stock/Requirements List please check the Individual List tab

MD04

Stock/Requirements List as of 07:25 hrs

Material: 140005, Plant: 7512, MRP Type: P3, Material Type: ZMAT, Unit: KG, LCHANET 11.12.18

Individual List

A.. Date	MRP el...	MRP element data	Exception	Receipt/Reqmt	Available Qty	Stock in transit	S.. Suppl./R...	R...
28.10.2019	POItem	4503556608/00010	10	16.329,492	2.360,508-	16.329,492	P4	7900100
02.12.2019	OrdRes	111755		2.519-	4.879,508-	0	P4	0
03.12.2019	OrdRes	111755		2.519-	7.398,508-	0	P4	0

I400 - Distribution imported data

I400 Intransit inventory in receipt date [KG]

SKU	Site	25/10/19	26/10/19	27/10/19	28/10/19	29/10/19	30/10/19
1x5816 / 458 / 1							
140005R@7512	7900R				16 329		

We take the Date and Qty from the PO:

- If there are some confirmations, we take it as first

Standard PO 4503983811 Created by Caroline LEBORGNE-HUBERT

current Overview On, Print Preview, Messages, Personal Setting

Standard PO: 4503983811, Vendor: 2146605 SOLVAY USA INC, Doc. date: 12.08.2020

S.. Itm	A	I	Material	Short Text	PO Quantity	OU n C	Deliv. Date	Net Price	Curr...	Per	OPU	Matl Group	Plnt	Purch.
10			107709	ORTHODIETHOXYBENZENE	14.400	KG	D 28.09.2020	..983,57	EUR	1.000	KG	SEMI FIN.&FI.	ZFR3 St. Fons	
20			107709	ORTHODIETHOXYBENZENE	14.400	KG	D 19.10.2020	..983,57	EUR	1.000	KG	SEMI FIN.&FI.	ZFR3 St. Fons	

Add Planning

m [10] 107709, ORTHODIETHOXYBENZENE HI PURITY...

Material Data, Quantities/Weights, Delivery Schedule, Delivery, Invoice, Conditions, Purchase Order History, Texts, Delivery Address, Confirmations, Impo

conf. Control

Inbound Del. manu. Order Ack.

Acknowl.Reqd Rejection Ind.

C	D	Delivery Date	Time	Quantity	Reference	Created on	Inb. Deliv.	Itm	HL It...	Batch	Quantity Reduced	M	MPN material
A	D	28.10.2020		6.400		28.10.2020	194402048	10	0		0	✓	107709
A	D	28.10.2020		800		28.10.2020	194402048	900001	10	BOD2001501	800	✓	
A	D	28.10.2020		7.200		28.10.2020	194402048	900002	10	BOD2024501	7.200	✓	

- If no confirmation, we take the ones from the Schedule

Standard PO 4503983811 Created by Caroline LEBORGNE-HUBERT

Document Overview On Print Preview Messages Perso

Standard PO 4503983811 Vendor 2146605 SOLVAY USA INC

Header

S..	Itm	A	I	Material	Short Text	PO Quantity	OU	C	Delv. Date	Net P
10				107709	ORTHODIETHOXYBENZENE	14.400 KG	D	28.09.2020		.983
20				107709	ORTHODIETHOXYBENZENE	14.400 KG	D	19.10.2020		.983

Item [20] 107709, ORTHODIETHOXYBENZENE HI PURITY..

Material Data Quantities/Weights Delivery Schedule Delivery Invoice Conditions Purcha

S..	C	Delivery Date	Sched. Qty	Time	Stat. Del. Dte	Committed d...	Committed Quantity	D
D		19.10.2020	14.400		19.10.2020	21.09.2020		
D		19.10.2020			19.10.2020	21.09.2020	14.400	

2/ Not standard flow with unlinked Purchase Order and Sales Order

For this kind of flow, we need a Matrix in SAP BW updated => "ZMATVENDOR".

SAP process vs DynaSys data:

- The receiving site is placing a Purchase order in SAP with a Solvay Vendor code - At this stage we have nothing in DynaSys but we can display this information as "Internal Purchase Order".

Standard PO 4503970129 Created by Eliane Regina Barbosa INA

Document Overview On Print Preview Messages Personal Setting

Standard PO 4503970129 Vendor 1294 SOLVAY SILICA KOREA CO., LTD. Doc. date 23.07.2020

der

S..	Itm	A	I	Material	Short Text	PO Quantity	OU	C	Deliv. Date	Net Price	Curr...	Per	OPU	Matl Group	Plnt
	10			128063	ZEOSIL 1115MP BB 700 KG / ...	30.800 KG	D	20.12.2020		..008,00	USD	1.000	KG	SEMI FIN.&FI	7523 Paulinia

- The Shipping site will create a Sales Order in SAP once they received the PO with a Solvay customer code - At this stage we have data under "Firm Shipment" field

=> It is relevant to have Sales Order created regularly in SAP

Standard Order	2988646	Net value	31.046,40	USD
Sold-To Party	53493	RHODIA BRASIL SA / AVENIDA DR. ROBERTO MOREIRA 5005, PARTE / P.		
Ship-To Party	53493	RHODIA BRASIL SA / AVENIDA DR. ROBERTO MOREIRA 5005, PARTE / P.		
Purch. Order No.	4504050549	PO Date	06.11.2020	

Sales	Item overview	Item detail	Ordering party	Procurement	Shipping	Reason for rejection
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Req. deliv.date	D	20.02.2021	Deliver.Plant	
☐ Complete div.			Total Weight	30.984,800 KG
Delivery block			Volume	0,000
Billing block			Pricing Date	20.02.2021
Payment terms	0004	30 days	Incoterms	CPT SANTOS
Order reason				
Sales area	KR03 / 82 / 04	KR Slices, Silica Cross Company, Silica Référence		
Shp.Cond.	Sea FCL Unloading Pt			

It...	Material	Order Quantity	Un	S	Description	Customer Material Numb	First date	Pint	It
10	128063	30,800	TO	✓	ZEOSIL 1115MP BB 700 KG / ON./3205K		21.02.2021	8279	ZN

- The shipping site will make the GI - At this stage the Firm Shipment is becoming an In-Transit

=> We take the Outbound Delivery to define the In Transit receipt date in Dynasys

Outbound delivery 85822933 Display: Header Detail:

Post Goods Iss

Ship-To Party 53493 RHODIA BRASIL SA / AVENIDA DR. ROBE

Processing	Picking	Loading	Shipment	Foreign Trade/Customs	Fin
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Dates			
Picking	06.11.2020	00:00...	Billing Date
Trans. Planning	06.11.2020	00:00	Billing date
Loading	06.11.2020	00:00	
Planned GI	06.11.2020	00:00...	
Delivery Date	20.12.2020	00:00	

- In Dynasys we do not check the Goods Receipt:
 - If delivery date is past but PO still opened- we will see the data in Dyansys as Actuals Receipt
 - If delivery date is on the future, but PO received - we will see the data in Dyansys as In Transit

Process Orders

SAP Transaction MD04 to check Stock/Requirements List please check the Individual List tab

Stock/Requirements List as of 05:29 hrs

MD04

Show Overview Tree Material description Status Delivery Priority

Material 90022 VANILLINE BRUTE BULK INT.
 Plant 7681 MRP Type X0 Material Type ZMAT Unit KG

Individual List		Product Group	Cross-Plant	I300 - Production imported datas (day) - I300 Process order											
A...	Date	MRP el...	MRP element data	I300 Process order [KG]											
27. 09. 2019	Stock			1x4 / 458 / 1											
09. 11. 2018	DepReq	91295		Item	Operating set	27/09/19	28/09/19	29/09/19	30/09/19	01/10/19	02/10/19	03/10/19	04/10/19		
03. 09. 2019	PrcOrd	000001426342/Z10C		90022R@7681R	1	13 000	13 000	13 000	13 000	13 000	13 000	13 000	13 000		
17. 09. 2019	DepReq	105591													
26. 09. 2019	PrcOrd	000008653647/Z001/Re	07			11. 000-			7. 293, 140						
27. 09. 2019	PrcOrd	000008658805/Z001/Re				13. 000			20. 293, 140					A100	S
27. 09. 2019	OrdRes	91295							33. 293, 140					A100	S
28. 09. 2019	PrcOrd	000008658806/Z001/Re				13. 000			36. 093, 140					A100	S
28. 09. 2019	OrdRes	91295				10. 200-			25. 893, 140						
29. 09. 2019	PrcOrd	000008658807/Z001/Re				13. 000			38. 893, 140					A100	S
29. 09. 2019	OrdRes	91295				10. 200-			28. 693, 140						
30. 09. 2019	PrcOrd	000008658808/Z001/Re				13. 000			41. 693, 140					A100	S

We also take **Firmed planned orders** as input for the Datafield "Process order" in DynaSys

Sales order book in ETA

SAP Transaction **MD04** to check Stock/Requirements List please check the Individual List tab

Stock/Requirements List as of 06:59 hrs

MD04

Show Overview Tree Material description Status Delivery Priority

Material 136883 MIRAPOL SURF S PFREE POWER 300KG BB
 Plant 7667 MRP Type ZD Material Type ZMAT Unit KG

Individual List Product Group Cross-Plant View

A...	Date	MRP el...	MRP element data	Exception	Receipt/Reqmt	Available Qty
28. 10. 2019	CusOrd	0002766567/000010/0001			6. 600-	11. 700
04. 11. 2019	CusOrd	0002755467/000010/0001			6. 000-	5. 700
04. 11. 2019	IndReq	VS	Display Standard Order 2755467			
12. 11. 2019	CusOrd	00				
02. 12. 2019	IndReq	VS				

Sales Document Item	10	Item Category	
Material	136883	MIRAPOL SURF	

Sales A	Sales B	Shipping	Billing Document	Conditions	Account assignment	Sch
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☒ Fixed date and qty	Order Quantity	20, 00
Delivery time	Delivery Qty	0, 00

Quantities/Dates					
P. Delivery Date	Order quantity	Rounded qty	Confirmed Qty	S...	Deliv
D 20. 11. 2019	20, 000	20, 000	20, 000	BB	