

## 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:
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- 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.
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- 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).

A. Date	MRP ...	MRP element data	Reschedul...	E. Receipt/Reqmt	Available Qty	Pr...	St...
17.12.2018	Stock				2.436.901,526		
25.03.2018	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...		25.000,000-2.747.588,098,474-		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	
08.10.2018	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.	0071685941/000010/0...		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	0005115214/000120/0...		1.560,000-2.747.770,908,474-		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		12.800,000-2.822.809,408,474-		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

**i** 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

Show Overview Tree Material description Status Delivery Priority **MD04**

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

Show Overview Tree **MD04**

Material: 203070 BIR Z 0/50 GMP+ S25 1PE P1200Q1HT ICN H  
 Plant: ROAB MRP type: PD Material Type: 1700 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: Z700 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
	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

**MD04**

#### Outbound delivery 71227622 Display: Header Details

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

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:

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

**MD04**

#### 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

Confirmed quantity: 0,000 KG

Date	Time	Event
25.05.2018	00:00	Delivery date
18.04.2018	00:00	Goods issue date
18.04.2018	00:00	Loading date
18.04.2018	00:00	Material avail. date
17.04.2018	00:00	Transportation Plan. Date

Arrival time: 00:00  
GI Time: 00:00  
Loading Time: 00:00  
Matl Staging Time: 00:00  
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 RHODASURF PEG8000 1800LB SS  
Plant: 7512 MRP Type: P3 Material Type: ZMAT Unit: KG LCHANET 11.12.18

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

1400 - Distribution imported data

1400 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

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	Delv. Date	Net Price	Curr...	Per	OPU	Mat 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	

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

Conf. Control	Inbound Del. manu.	Order Ack.	Created on	Inb. Delv.	Itm	HL Ite...	Batch	Quantity Reduced	M	MPN material
C D	Delivery Date	Reference	28.10.2020	194402048	10	0		0		107709
A D			28.10.2020	194402048	900001	10	BOD2001501	800		
A D			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

Standard PO 4503983811 Vendor 2146605 SOLVAY USA INC

Header

S..	Itm	A	I	Material	Short Text	PO Quantity	OU	C	Delv. Date	Net Price
	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

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

Header

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

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	Plnt	It
10	128063	30,800	TO	✓	ZEOSIL 1115MP BB 700 KG / ON./3205K		21.02.2021	8279	ZB

- 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

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	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	
	27.09.2019	Stock		90022R@7681R	1	13 000	13 000	13 000						
	09.11.2018	DepReq	91295											
	03.09.2019	PrcOrd	000001426342/Z10C											
	17.09.2019	DepReq	105591			11.000-			7.293,140					
	26.09.2019	PrcOrd	000008653647/Z001/Re	07		13.000			20.293,140	A100				
	27.09.2019	PrcOrd	000008658805/Z001/Re			13.000			33.293,140	A100				
	27.09.2019	OrdRes	91295			10.200-			23.093,140					
	28.09.2019	PrcOrd	000008658806/Z001/Re			13.000			36.093,140	A100				
	28.09.2019	OrdRes	91295			10.200-			25.893,140					
	29.09.2019	PrcOrd	000008658807/Z001/Re			13.000			38.893,140	A100				
	29.09.2019	OrdRes	91295			10.200-			28.693,140					
	30.09.2019	PrcOrd	000008658808/Z001/Re			13.000			41.693,140	A100				

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			
	12.11.2019	CusOrd	00			
	02.12.2019	IndReq	VS			

  

Sales Document Item		Item Category	1001 Sales order book [KG]				
Material	136883	MIRAPOL SURF	72529 / 458 / 1				
			SKU	18/11/19	19/11/19	20/11/19	21/11/19
			136883R@2075652R				
			136883R@55284R			6 000	

  

Sales A	Sales B	Shipping	Billing Document	Conditions	Account assignment	Sch
<input checked="" type="checkbox"/>						
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	