



Internal SAP MM STO Workflow



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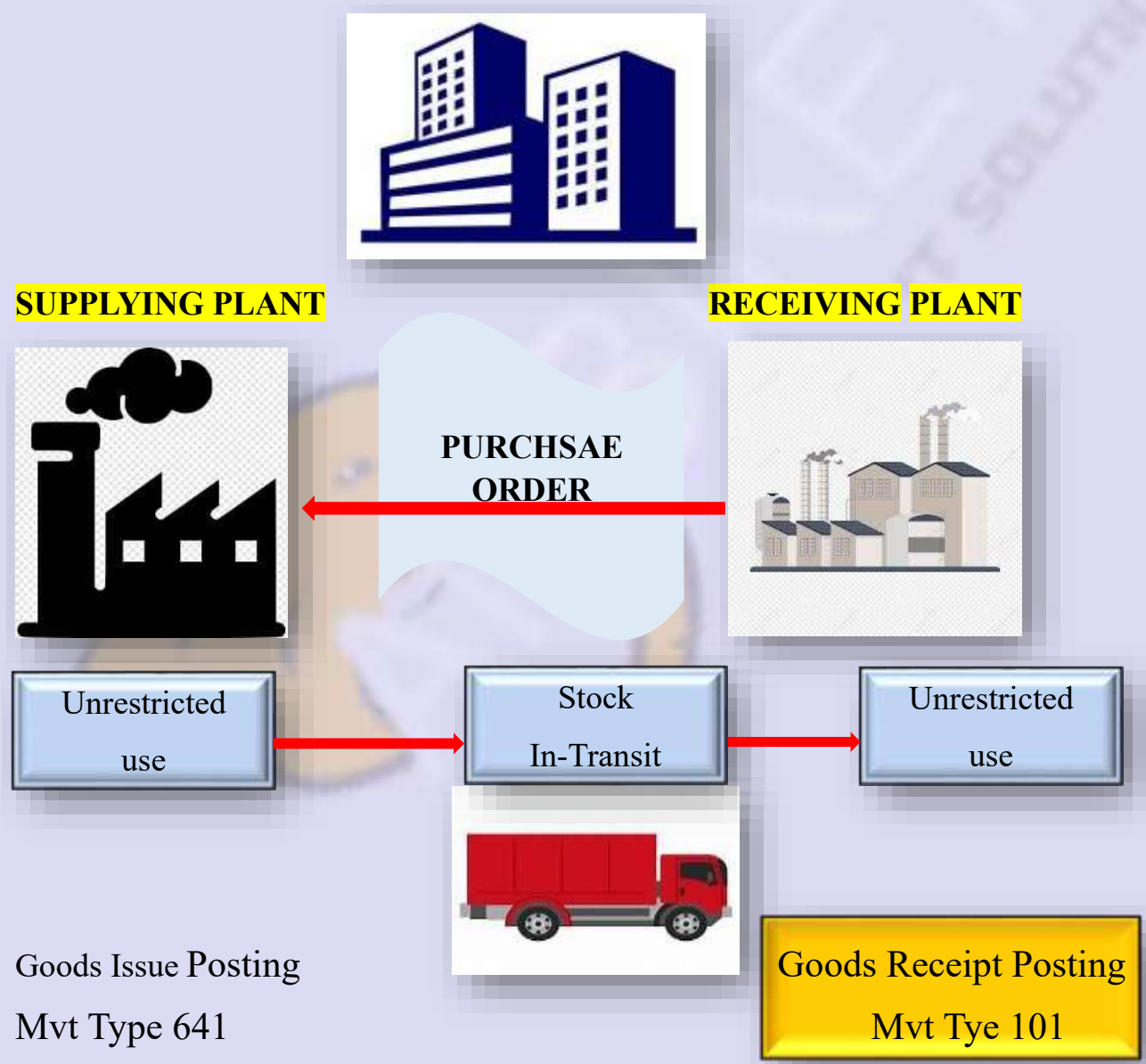


info@ambikeya.com||www.ambikeya.com||+917746805189

Internal SAP MM STO Workflow:

The Internal Stock Transport Order (STO) Workflow within SAP MM enables the seamless transfer of materials between two plants within the same company. This process, known as Intra STO, facilitates the movement of goods via a delivery mechanism without involving billing procedures. The Intra STO Process is alternatively referred to as the MM-SD Integration Cycle.

To execute the Intra STO Process successfully, collaboration with an SAP SD Consultant is essential. The SD Consultant plays a pivotal role in establishing the necessary configurations. One of the key steps involves the creation of a customer code specifically for the Receiving Plant.



Goods Issue Posting
Mvt Type 641

Goods Receipt Posting
Mvt Tye 101

Subsequently, the Receiving Plant initiates the workflow by generating a stock transport order (STO), which is then forwarded to the Supplying Plant. The Supplying Plant then fulfills the order by delivering the requested material to the Receiving Plant, thus completing the internal stock transfer.

COMPANY

Here are the steps involved in the intra STO process in SAP MM:

1. Create a stock transport order (STO) in the receiving plant.
2. Send the STO to the supplying plant.
3. The supplying plant delivers the material to the receiving plant.
4. The receiving plant posts a goods receipt.

Prerequisites:

Supplying Plant: 1100

Receiving Plant: 100

Customer Code: 1185

Purchase Org: 1000

Sales Organization: 1000

Storage Location: 0001

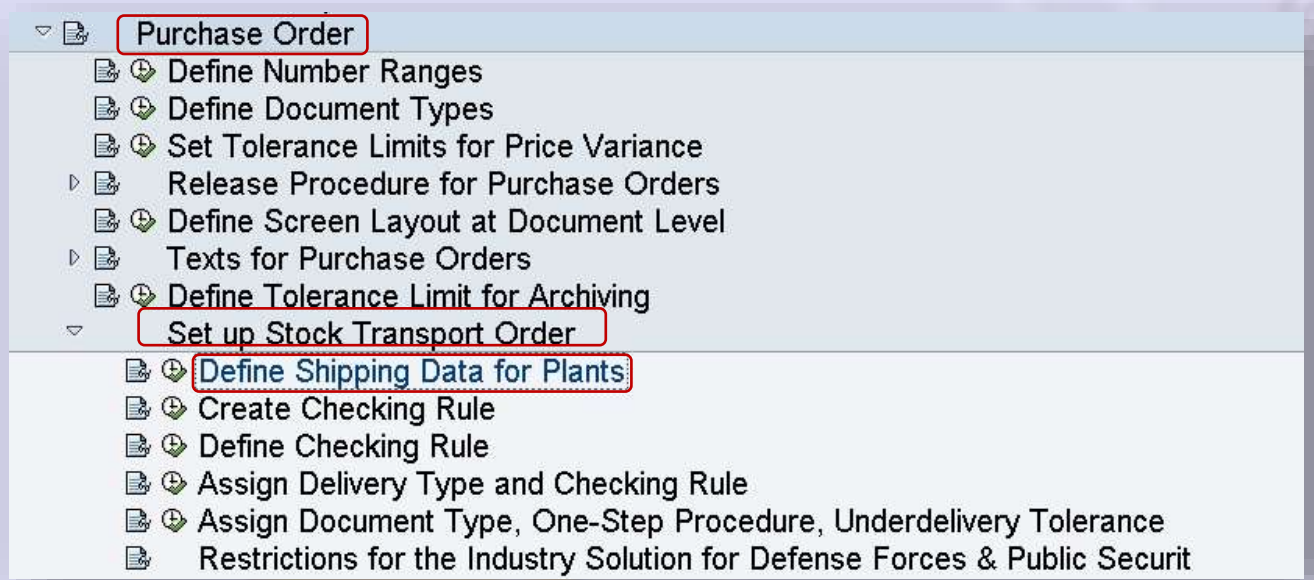
Distribution Channel: 10

Division: 10

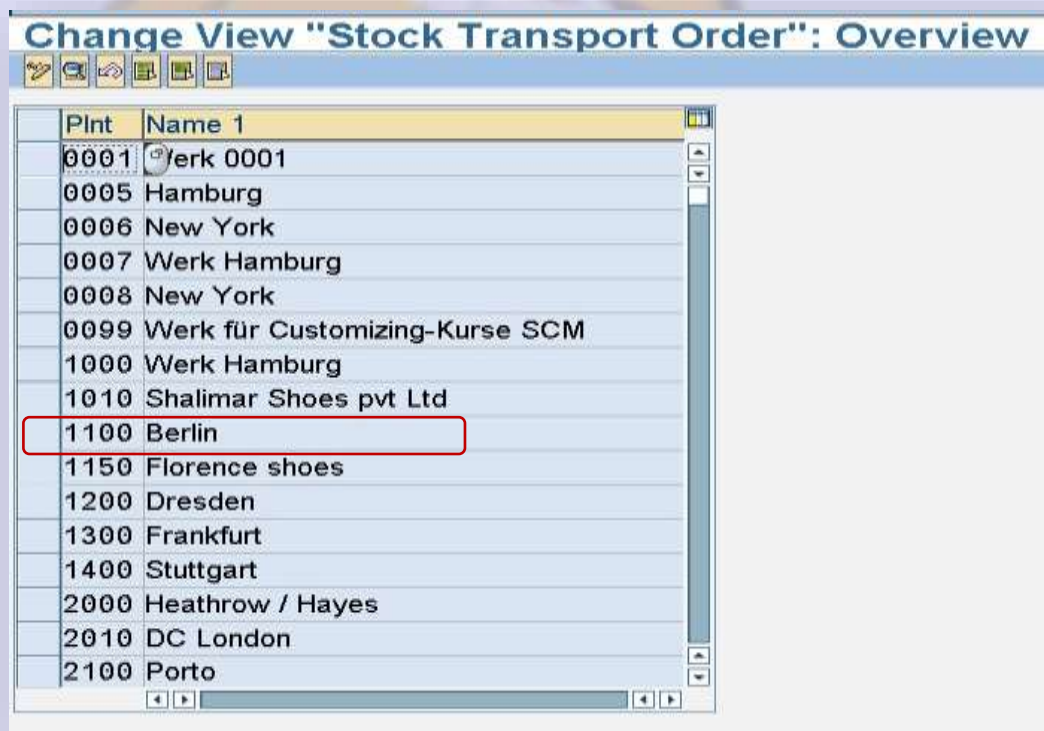
Back End Setting for Intra STO

Step 1: Define Shipping Data for Plants

OLME PURCHASE ORDER SET UP STOCK TRANSPORT ORDER DEFINE SHIPPING DATA FOR PLANTS



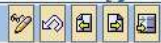
Execute the Define Shipping Data for Plants



Select the Supplying Plant 1100

Assign Sales Org, Distribution channel & Division to the Supplying Plant

Change View "Stock Transport Order": Details



Plant Berlin

Detailed information

Customer no. - plant

SlsOrg.Int.B.	<input type="text" value="1000"/>	Germany Frankfurt
DistChannelB	<input type="text" value="10"/>	Final customer sales
Div.Int.Billing	<input type="text" value="00"/>	Cross-division

Language for stock transport order texts

Language Key German

Select the Receiving Plant 1000 & Assign the Sales Org, Distribution channel & Division and Customer Number

Change View "Stock Transport Order": Overview



Plnt	Name 1
0001	Werk 0001
0005	Hamburg
0006	New York
0007	Werk Hamburg
0008	New York
0099	Werk für Customizing-Kurse SCM
1000	Werk Hamburg
1010	Shalimar Shoes pvt Ltd
1100	Berlin
1150	Florence shoes
1200	Dresden
1300	Frankfurt
1400	Stuttgart
2000	Heathrow / Hayes
2010	DC London
2100	Porto

Change View "Stock Transport Order": Details

Plant Werk Hamburg

Detailed information

Customer no. - plant Werk Hamburg 1000

Hamburg

SlsOrg.Int.B. Germany Frankfurt

DistChannellB Final customer sales

Div.Int.Billing Cross-division

Language for stock transport order texts

Language Key German

Then Save it

Step 2: Assign Delivery Type & Checking Rule

OLME PURCHASE ORDER SET UP STOASSIGN DELIVERY TYPE & CHECKING RULE

- ▼ Purchase Order
 - Define Number Ranges
 - Define Document Types
 - Set Tolerance Limits for Price Variance
 - Release Procedure for Purchase Orders
 - Define Screen Layout at Document Level
 - Texts for Purchase Orders
 - Define Tolerance Limit for Archiving
 - ▼ Set up Stock Transport Order:
 - Define Shipping Data for Plants
 - Create Checking Rule
 - Define Checking Rule
 - Assign Delivery Type and Checking Rule
 - Assign Document Type, One-Step Procedure, Underdelivery Tolerance
 - Restrictions for the Industry Solution for Defense Forces & Public Security

Select Assign Delivery Type & Checking Rule

Select the Document Type as UB for Intra STO Process and Assign the Delivery type as NL & Checking Rule as 01 for both the Supplying & Receiving Plants.

Change View "Stock Transfer Data": Overview

New Entries

Ty.	DT Dscr.	SPI	Name 1	DfTy.	Description	CRI	Description of	Sh.	Ro	Deliv	Deliv	DT	A	Req. Pr
UB	Stock transport a0000		New York	NL	Replenishment dlv.	A	SD order	<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a1000		Werk Hamburg	NL	Replenishment dlv.	01	Checking rule 01	<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a1100		Berlin	NL	Replenishment dlv.	01	Checking rule 01	<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a1200		Dresden	NL	Replenishment dlv.	RP	Replenishment	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a1300		Frankfurt					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a1400		Stuttgart					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2000		Heathrow / Hayes					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2010		DC London					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2100		Porto					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2200		Paris					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2210		Lyon					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2220		Centre de Distrib					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2230		Centre de Distrib					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2240		Centre de Distrib					<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2300		Barcelona	NL	Replenishment dlv.			<input type="checkbox"/>	<input type="checkbox"/>					
UB	Stock transport a2400		Milano Distributio					<input type="checkbox"/>	<input type="checkbox"/>					

Then Save it.

Step 3: Assign Document Type, One-Step Procedure, Underdelivery Tolerance

Purchase Order

- Define Number Ranges
- Define Document Types
- Set Tolerance Limits for Price Variance
- Release Procedure for Purchase Orders
- Define Screen Layout at Document Level
- Texts for Purchase Orders
- Define Tolerance Limit for Archiving
- Set up Stock Transport Order
 - Define Shipping Data for Plants
 - Create Checking Rule
 - Define Checking Rule
 - Assign Delivery Type and Checking Rule
 - Assign Document Type, One-Step Procedure, Underdelivery Tolerance
 - Restrictions for the Industry Solution for Defense Forces & Public Security

Then, Execute it.

Assign the Supplying & receiving Plant & Document Type & untick the one step procedure unless it will be defining as one step procedure

Change View "Default Document Type for Stock Transport Orders": Overvi

New Entries

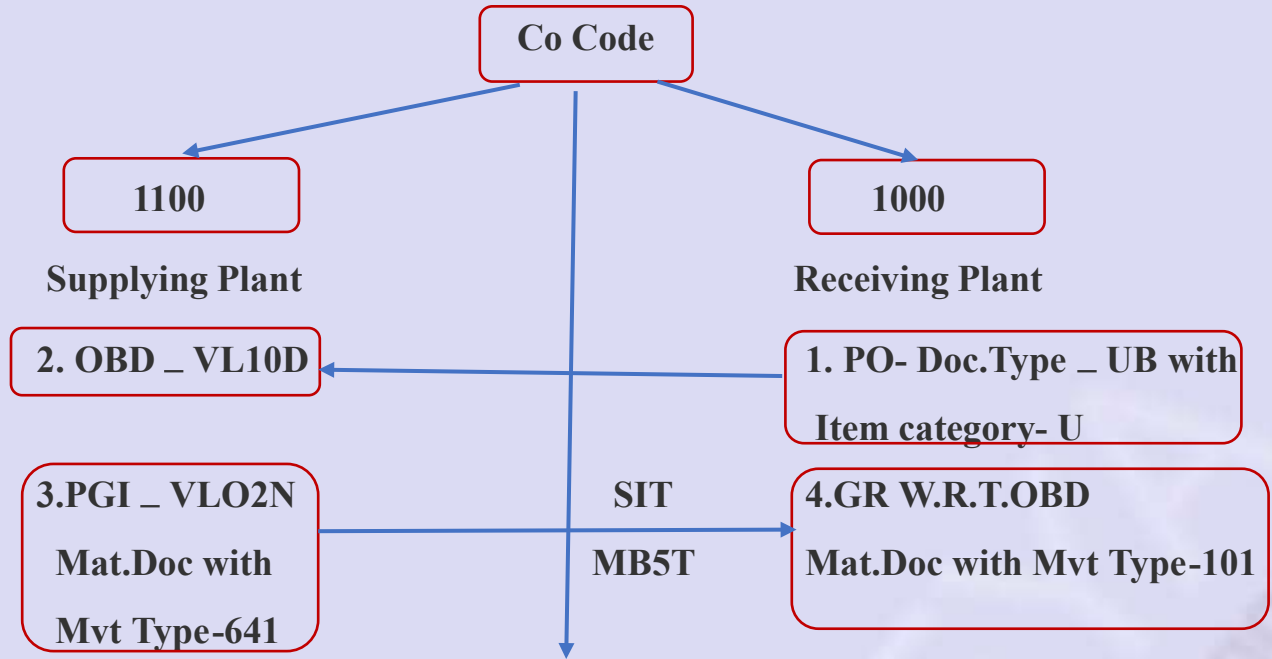
Doc. Category F PURCHASE ORDER

SPI	Plnt	Type	One Step	Tol.
0007	2500	UB	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1000	1200	UB	<input type="checkbox"/>	<input type="checkbox"/>
1000	2400	UB	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1000	2500	UB	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1100	1000	UB	<input type="checkbox"/>	<input type="checkbox"/>
1200	1000	UB	<input type="checkbox"/>	<input type="checkbox"/>
1200	1400	UB	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1200	2200	NB	<input type="checkbox"/>	<input type="checkbox"/>
1200	2300	UB	<input type="checkbox"/>	<input type="checkbox"/>
1200	2400	UB	<input type="checkbox"/>	<input type="checkbox"/>
1200	2500	UB	<input type="checkbox"/>	<input type="checkbox"/>
1200	3200	UB	<input type="checkbox"/>	<input type="checkbox"/>
1200	3300	UB	<input type="checkbox"/>	<input type="checkbox"/>
1200	3800	UB	<input type="checkbox"/>	<input type="checkbox"/>
1400	2200	NB	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2000	1000	NB	<input type="checkbox"/>	<input type="checkbox"/>
2000	200	NB	<input type="checkbox"/>	<input type="checkbox"/>

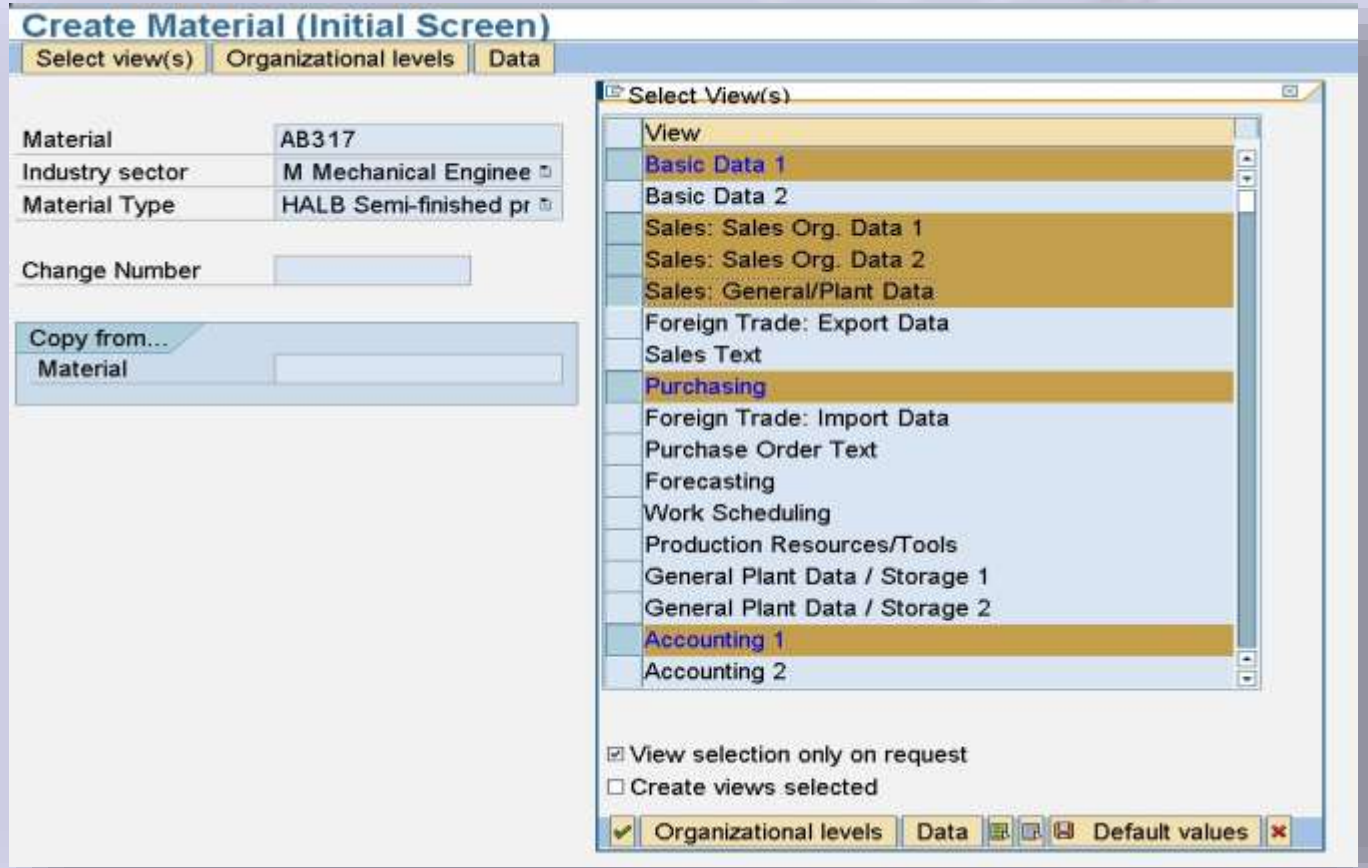
Then Save it.



Process:



Step 1: Creation of Material along with Sales views -MM01



Assign the Plant, Sales Org. and Distribution Channel

Create Material (Initial Screen)

Select view(s) | Organizational levels | Data

Material	AB317	Organizational Levels	
Industry sector	M Mechanical Engine	Organizational levels	
Material Type	HALB Semi-finished pr	Plant	1100 Berlin
Change Number		Sales Org.	1000
Copy from...		Distr. Channel	10
Material		<input type="checkbox"/> Org. levels/profiles only on request	
		<input checked="" type="checkbox"/> Select view(s) <input type="checkbox"/> Default values	



Change Material AB317 (Semi-finished product)

Additional data | Organizational levels | Check screen data

Basic data 1 | Basic data 2 | Sales: sales org. 1 | Sales: sales org. 2 | Sales: General/Plant

Material: AB317 | Intra-Co STO With Delivery W/O Billing

General data

Base Unit of Measure: PC piece(s) | Material Group: 001

Old material number: | Ext. Matl Group: |

Division: 10 | Lab/Office: |

Product allocation: | Prod.hierarchy: |

X-plant matl status: | Valid from: |

Assign effect. vals | GenItemCatGroup: NORM Standard item

Dimensions/EANs

Gross Weight: | Weight unit: KG

Net Weight: |

Volume: | Volume unit: |

Size/dimensions: |

EAN/UPC: | EAN Category: |

Packaging material data

Matl Grp Pack. Mats: |

Ref. mat. for pckg: |

Change Material AB317 (Semi-finished product)

Additional data | Organizational levels | Check screen data

Basic data 2 | **Sales: sales org. 1** | Sales: sales org. 2 | Sales: General/Plant | Foreign trad

Material: AB317 | Intra-Co STO With Delivery W/O Billing

Sales Org.: 1000 | Germany Frankfurt

Distr. Chl: 10 | Final customer sales

General data

Base Unit of Measure: PC piece(s) | Division: 10 | Vehicles

Sales unit: | Sales unit not var.

Unit of Measure Grp: |

X-distr.chain status: | Valid from: |

DChain-spec. status: | Valid from: |

Delivering Plant: 1100 | Berlin

Material Group: 001 | Metal processing

Cash discount | **Conditions**

Tax data

Co	Country	Tax	Tax category	T	Tax classification
DE	Germany	MWST	Output Tax	0	No tax

Entry 1 of 1

Change Material AB317 (Semi-finished product)

Additional data | Organizational levels | Check screen data

Sales: sales org. 1 | **Sales: sales org. 2** | Sales: General/Plant | Foreign trade export | Sale

Material AB317 | Intra-Co STO With Delivery W/O Billing
 Sales Org. 1000 | Germany Frankfurt
 Distr. Chl 10 | Final customer sales

Grouping terms

Matl statistics grp | Material pricing grp
 Volume rebate group | Acct assignment grp
Gen. item cat. grp NORM | Standard item | **Item category group** NORM | Standard item
 Pricing Ref. Matl
 Product hierarchy
 Commission group

Material groups

Material group 1 | Material group 2 | Material group 3
 Material group 4 | Material group 5

Product attributes

Product attribute 1 | Product attribute 2 | Product attribute 3
 Product attribute 4 | Product attribute 5 | Product attribute 6
 Product attribute 7 | Product attribute 8 | Product attribute 9
 Product attribute 10

Change Material AB317 (Semi-finished product)

Additional data | Organizational levels | Check screen data

Sales: sales org. 2 | **Sales: General/Plant** | Foreign trade export | Sales text | Purchasing

Material AB317 | Intra-Co STO With Delivery W/O Billing
 Plant 1100 | Berlin

General data

Base Unit of Measure PC | piece(s) | Replacement part
 Gross Weight KG | Qual.f.FreeGoodsDis.
 Net Weight
 Availability check 01 | Daily requirements | Material freight grp
 Batch management | Appr.batch rec. req.

Shipping data (times in days)

Trans. Grp 0001 | On pallets | **LoadingGrp** 0001 | Crane
 Setup time | Proc. time | Base qty PC

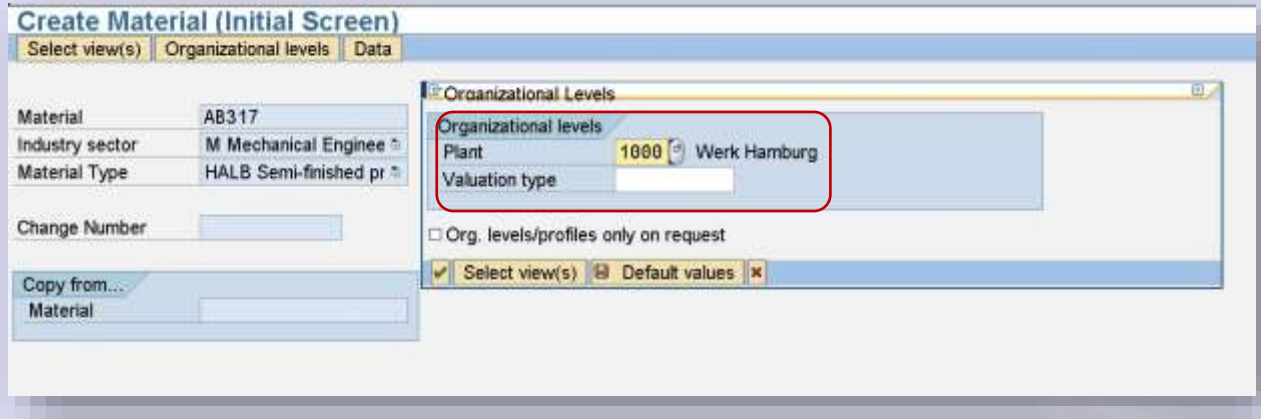
Packaging material data

Matl Grp Pack.Matls
 Ref. mat. for pkg

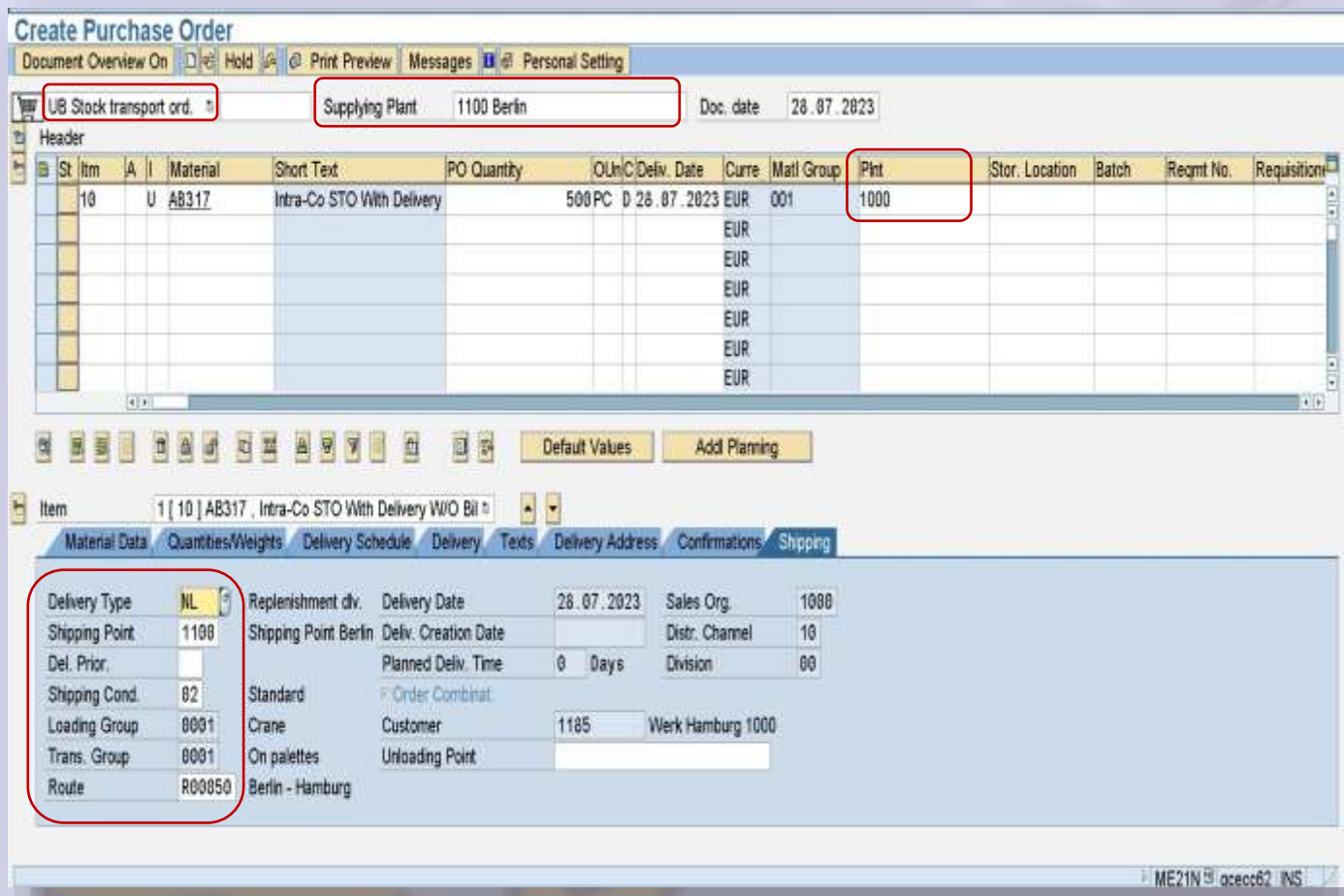
General plant parameters

Neg.stocks | Profit Center | SerialNoProfile | DistProf

Then, Extend the material to the Receiving Plant



Step 2: Creation of Purchase Order –ME21N



Stock transport ord. created under the number 4500017405

Have to Select the Doc Type ad UB for INTRA STO Process

Here we have to enter the Supplying Plant. In Standard Process we have to maintain the vendor.

The Shipping Tab appeared in PO Item details as we defined the delivery type as NL in the backend configuration

Step 3: Creation of OBD –VL0D

The VL10D transaction can be used to create outbound deliveries for purchase orders and It also allows you to specify the shipping conditions

Purchase order items

Collective Processing Logs

Shipping Point/Receiving Pt: [] to []
 Deliv. Creation Date: 28.07.2023 to 29.07.2023
 CalcRuleDefltDivCrDt: 2

General Data | Purchase Orders | Material | User Role

General Data

Delivery Priority	[]	to	[]	[]
Shipping Conditions	[]	to	[]	[]
Route	[]	to	[]	[]
Ship-to party	[]	to	[]	[]
Unloading Point	[]	to	[]	[]
Sales Document Type	[]	to	[]	[]
Sales Organization	[]	to	[]	[]
Distribution Channel	[]	to	[]	[]
Division	[]	to	[]	[]
Goods Issue Date	[]	to	[]	[]

After Execute, Have to Select the checkbox and select the Background to run the outbound process of the material

Activities Due for Shipping "Purchase order items"

Background

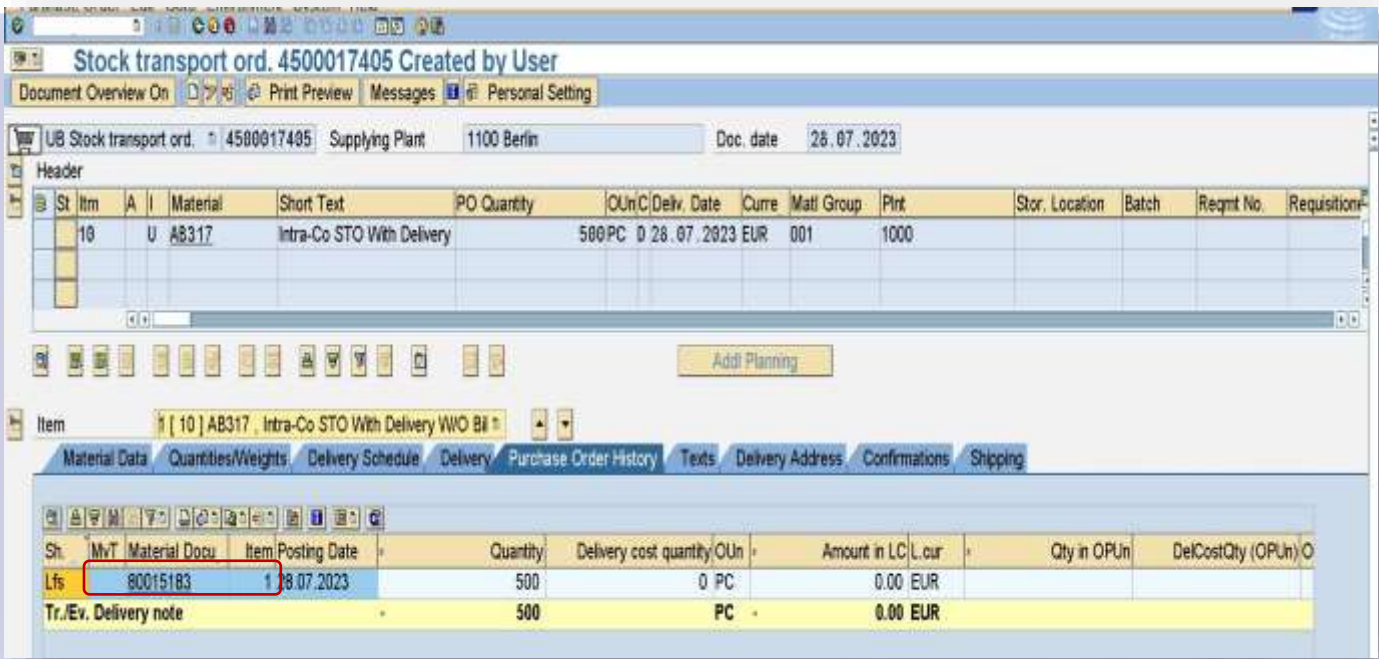
OriginDoc.	Sold-to pt	Item	GI Date	DB Material	Open qty	BUn	CumQty	SU
4500017405	UB	10		AB317	500	PC	500	PC

Activities Due for Shipping "Purchase order items"

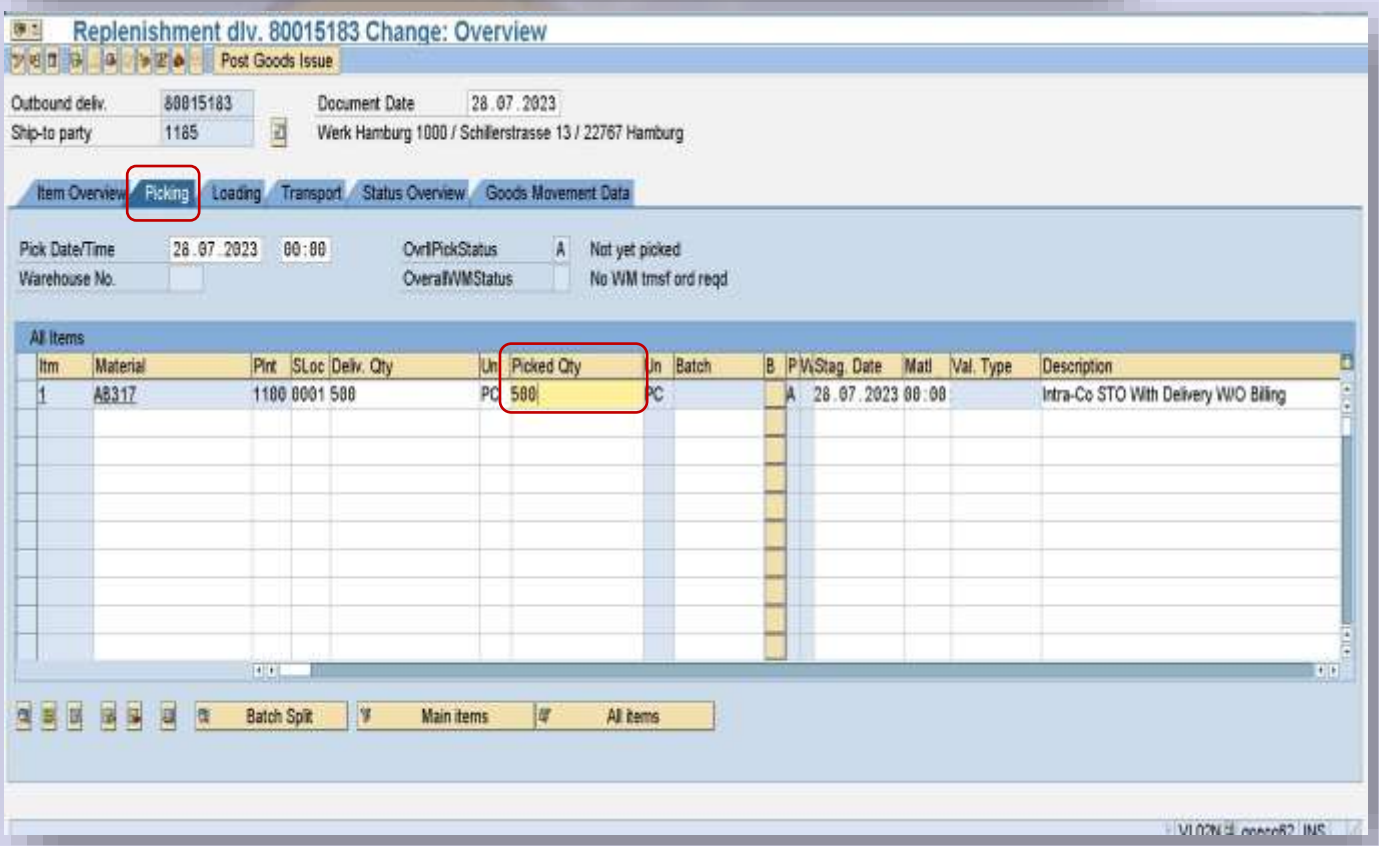
Background

OriginDoc.	Sold-to pt	Item	GI Date	DB Material	Open qty	BUn	CumQty	SU
4500017405	UB	10		AB317	0	PC	0	PC
4500017405	UB	10		AB317	0	PC		PC

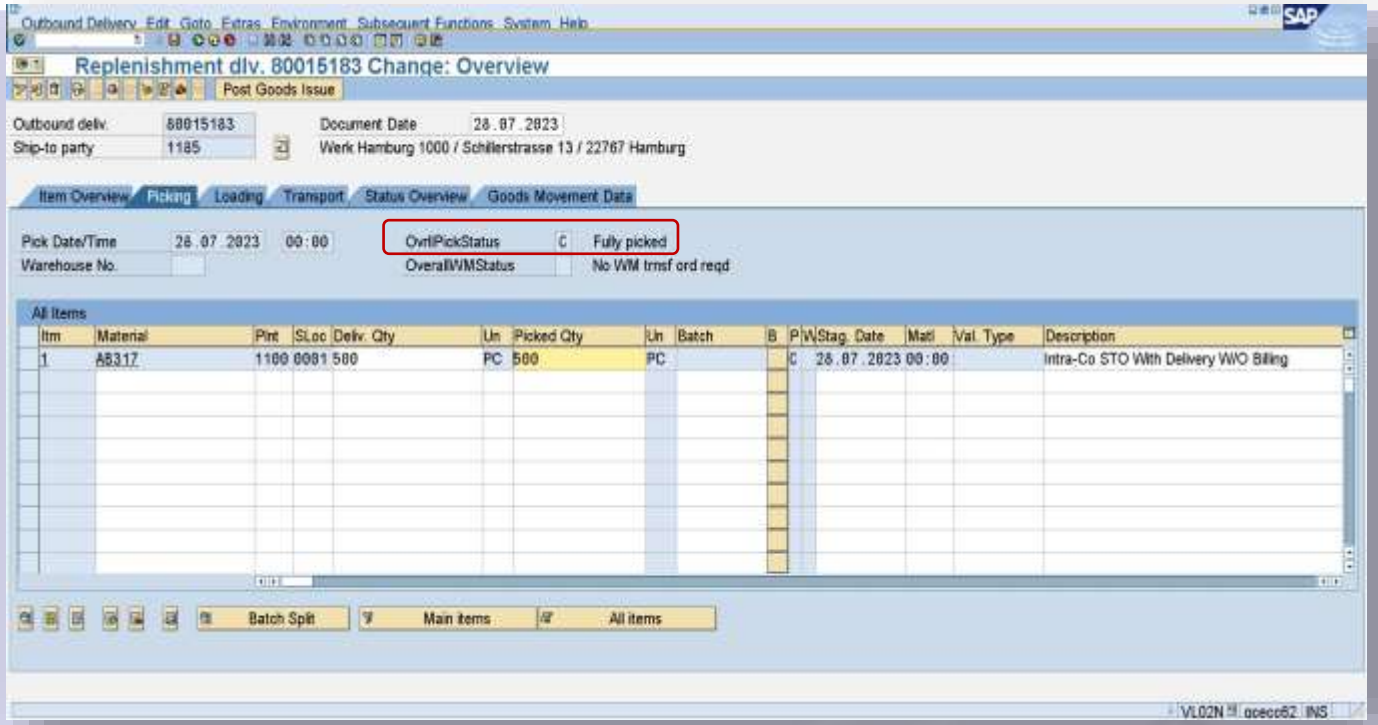
Outbound Delivery is Created 80015183
 Check the ODB in Purchase Order History in ME23N



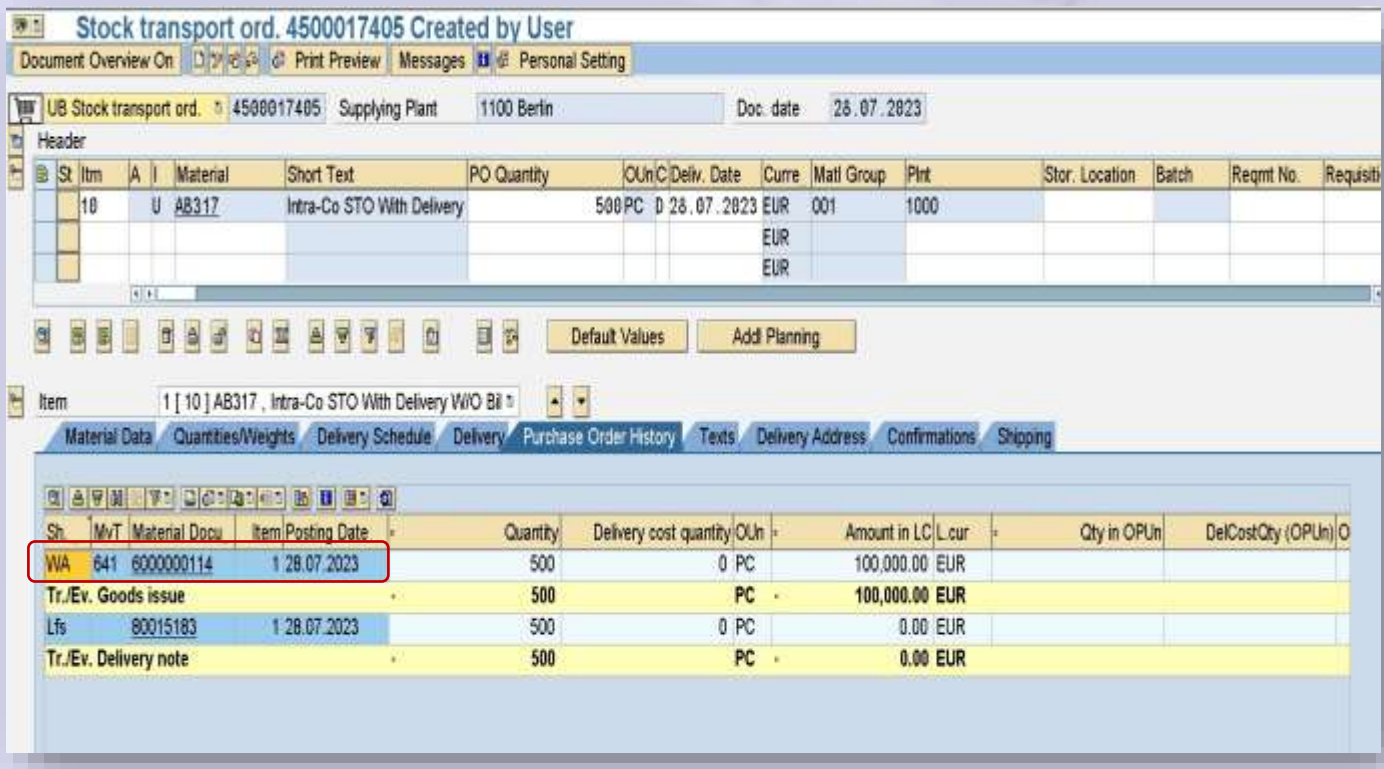
Step 4: Creation of PGI -VL02N



Select the Picking tab and Enter the Piced quantity Value



Now the Over all Status of the PGI is fully Picked if it is not fully picked the system throws the error.



After PGI, the Materials Placed in Stock in transit and it records the Movement Type as 641
 Check the Material in Stock in Transit

Display Stock in Transit

Database Selections

Material: AB317

Receiving Plant: [] to []

Receiving Plant Company Code: [] to []

Issuing Plant: [] to []

Special Stock: [] to []

Stock Transfer Orders

Cross-Company-Code

Incl. POs w. Del. Cmpl. Status

Incl. Deleted Purchase Orders

Display Options

Layout: []

Step 5: Goods Receipt - MIGO

Before Doing MIGO, we've to check the stock overview, On-Order Stock is 500 as per Created STO in the Plant 1000

Stock Overview: Basic List

Selection

Material: AB317 Intra-Co STO With Delivery W/O Billing

Material Type: HALB Semi-finished product

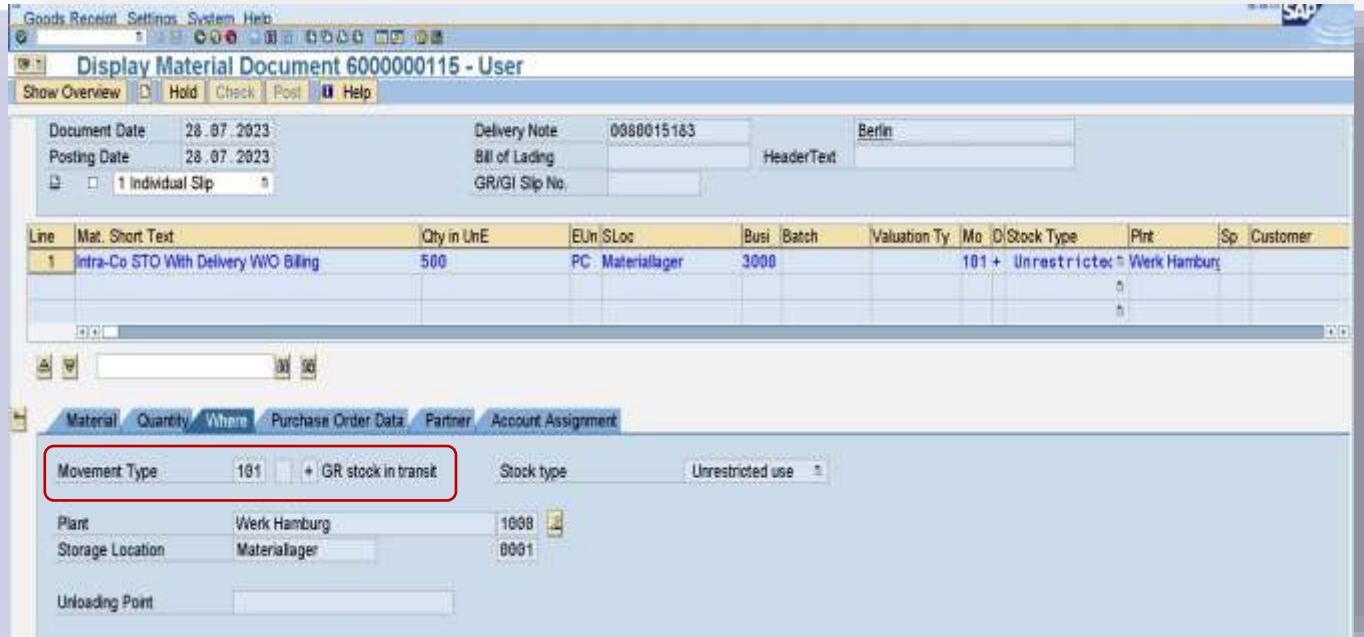
Unit of Measure: PC Base Unit of Measure: PC

Stock Overview

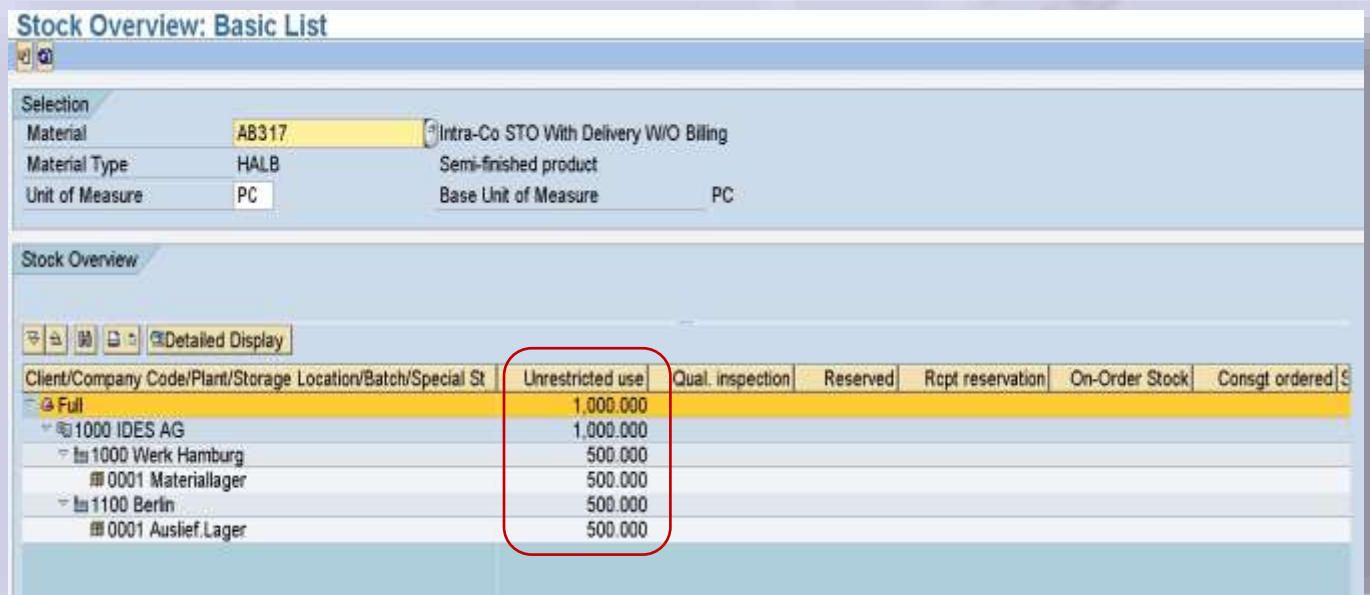
Detailed Display

Client/Company Code/Plant/Storage Location/Batch/Special St	Unrestricted use	Qual. inspection	Reserved	Rcpt reservation	On-Order Stock	Consigt ordered
Full	500.000				500.000	
1000 IDES AG	500.000				500.000	
1000 Werk Hamburg						
1100 Berlin	500.000					
0001 Auslieferung Lager	500.000					

Now, do **MIGO W.R.T.OBD**



The System Records the Movement Type as 101, Now the On-Order stock quantity is stackable in unrestricted use in Plant 1000 and the Material in Plant 1100 is transferred to 1000



THANK YOU



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