

Storage Location Determination in Outbound Deliveries



Storage location is an important parameter which has a significant role in availability check. It is important to know the relevant customizing settings, so please go through the below mentioned information and set up your system accordingly.

Customizing

In the standard ERP system, in order to have a storage location determination in outbound deliveries:

- storage location determination must be activated for the relevant delivery item category in *SPRO → Logistics Execution → Shipping → Picking → Determine Picking Location → Assign Picking Location* (transaction **OVLP**)

Change View "Delivery item categories": Details

Item Category Standard Item
 Document cat. Delivery

Material/Statistics

☒ Mat.no.'0' allowed
 ItemCat.stat.group Stk determ.rule

Quantity

Check quantity 0	<input type="text" value="A"/>	Note about the situation	AvailCkOff	<input type="text"/>
Check minimum qty	<input type="text" value="A"/>	Note about the situation	Rounding	<input type="text"/>
Check overdelivery	<input type="text" value="A"/>	Note about the situation		

Warehouse Control and Packing

☒ Relevant for picking
☒ StLocation required
☒ Determine SLoc
☐ Don't chk st. loc.
☐ No batch check

Packing control
☐ Pack acc. batch itms
☒ AutoBatchDeterm

Transaction Flow

TextDetermProcedure Standard text

- AND a determination rule must be assigned for the relevant delivery type in *SPRO* → *Logistics Execution* → *Shipping* → *Picking* → *Determine Picking Location* → *Define Rules for Picking Location Determination*.

Change View "Deliveries: Dlv.types - Purchase Order Storage Location R

Deliveries: Dlv.types - Purchase Order Storage Loc

DlvTy	Description	Rule	Determ. StLoc.
ACLF		MALA	
AGI	sziladi_repl_deliv	MALA	
BV	Cash Sale	MALA	
BW	Delivery BW	MARE	
BWLF	Delivery BW	MARE	
CBLF	BEVStandard Delivery	MALA	
CBLR	BEV Returns Delivery	MALA	
DIG	Inb.deliv.gds mvmnt	MALA	
DOG	Outb.deliv.gds mvmnt	MALA	
DTR	Central postng chnge	MALA	
EG	Rough GR		
EL	Shipping notificat.		
ELST	IDel. Val. Rec. SiT		

Position... Entry 1 of 127

There are three standard determination rules that can be used: **MALA**, **RETA**, and **MARE**.

Let's take a closer look on the above mentioned rules.

In case of rule **MALA**, the system determines a storage location based on:

- the shipping point,
- the delivering plant,
- and the storage condition.

The shipping point and the plant are very straightforward, these data are (mostly) copied from the predecessor document (for which the delivery note is being created). The storage condition can be maintained in the material master, on the 'Plant data / stor. 1' tab.

Display Material AC_200 (Semi-finished product)

Additional Data Org. Levels

Forecasting **Plant data / stor. 1** Plant data / stor. 2 WM Execution

Material AC_200
Plant AC1
Stor. Loc. AC1

General data

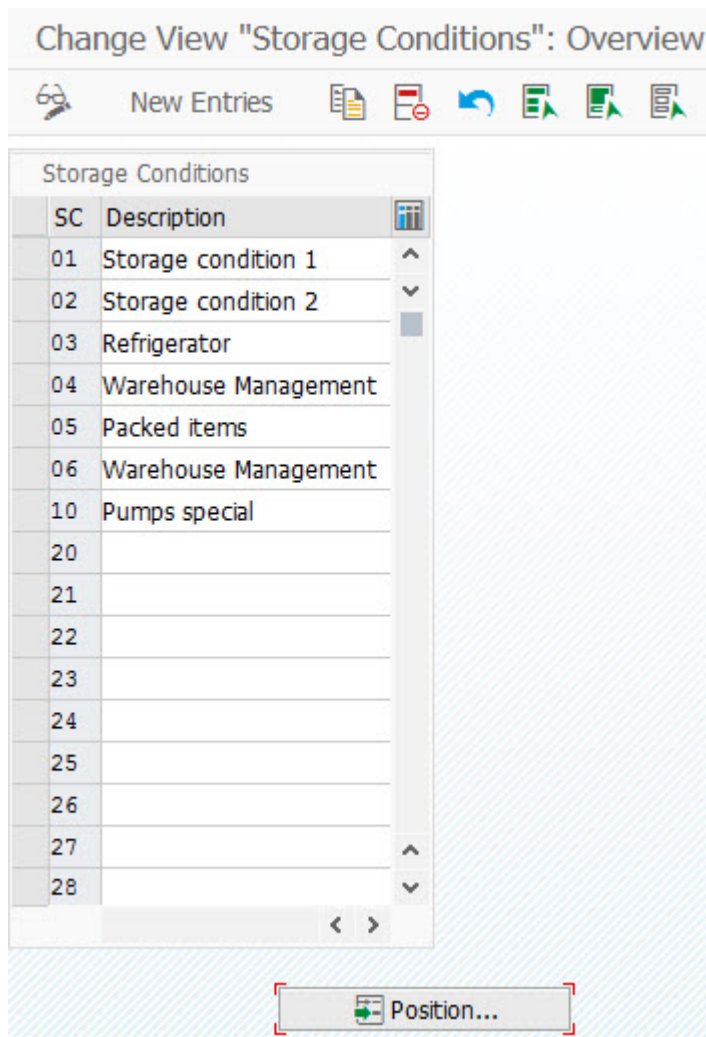
Base Unit of Measure	PC	piece(s)	Unit of issue	
Storage Bin			Picking area	
Temp. conditions			Storage conditions	01
Container reqmts			Haz. material number	
CC phys. inv. ind.		<input type="checkbox"/> CC fixed	Number of GR slips	0
Label type		Lab.form <input type="checkbox"/>	<input type="checkbox"/> Appr.batch rec. req.	
		OBManagmnt <input type="checkbox"/>	OB Ref. Material	

☒ Batch management

Shelf life data

Max. Storage Period	0	Time unit	
Min. Rem. Shelf Life	0	Total shelf life	0
Period Ind. for SLED	D	Rounding rule SLED	
Storage percentage	0		

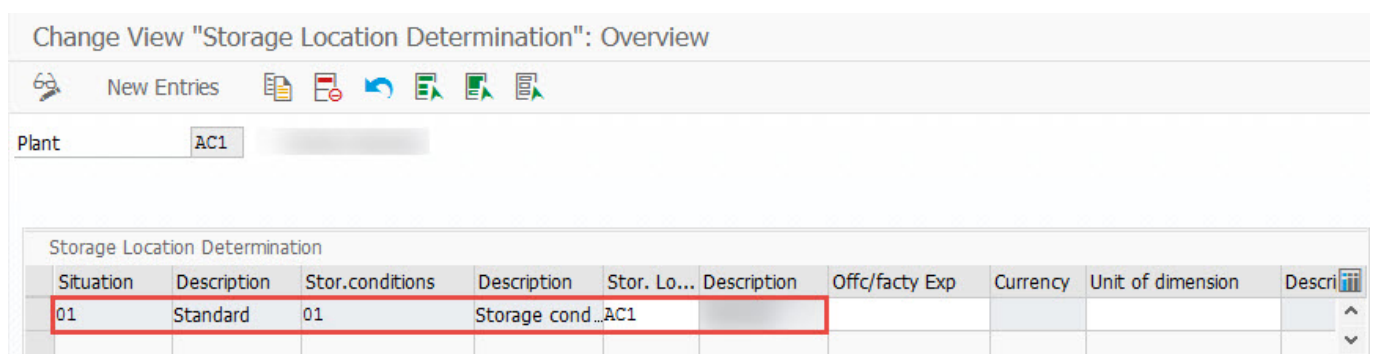
Please be aware that the 'Plant data / stor. 1' tab will not be accessible until you specify the plant AND the storage location when entering transaction MM02. Storage conditions can be created under *SPRO → Logistics Execution → Shipping → Picking → Determine Picking Location → Define Storage Conditions*.



In case of rule **RETA**, the system determines a storage location based on:

- the delivering plant,
- the situation,
- and the storage condition.

The situation can be assigned under *SPRO → Logistics Execution → Shipping → Picking → Determine Picking Location → Storage Location Determination with Situation*.



If you want to define a new situation, you can do so under *SPRO → Logistics Execution → Shipping → Picking → Determine Picking Location → Define*

Situations.

Change View "Storage Locations for Materials": Overview

New Entries

Situation	Description
01	Standard
02	Promotion
03	Cross-docking (CD)
04	Flow-through (FT)
05	Material-driven FT
06	Consumer-driven FT
11	Place in stock, std
12	Place in stock,promo
13	Place in stock, CD
14	Place in stock, FT
15	Pl. in stock dir. FT
16	Pl. in stock pick.FT
21	Remove fr. stock,std
22	Rem. fr. stock,promo
23	Remove fr. stock, CD
24	Remove fr. stock, FT

Position... Entry 1 of 18

In case of rule MARE, the system chooses rule **MALA** first, and if the predetermined storage location cannot be applied (like for instance the respective material is not created / maintained for the concerned storage location, or there is no storage location determined in transaction **OVL3**), it switches to rule RETA. If there is no storage location maintained for the combination of plant / situation / storage condition, storage location determination will not give back any storage location and the delivery document will be created without this parameter.

Remarks

Please note that if the predecessor document already contains a storage location, this storage location will simply be copied into the delivery document, so storage location determination will not be carried out.

Also, storage location determination in sales documents is not possible in the standard ERP system. If you want storage location to be determined for a sales document then you have to implement your own system logic in a user exit. SAP

recommends to use USEREXIT_SOURCE_DETERMINATION in include MV45AFZB. From a technical point of view, it is possible to use USEREXIT_MOVE_FIELD_TO_VBAP (include MV45AFZZ), but this user exit is not recommended to carry out a storage location determination. Using this user exit for a storage location determination can lead to problems / inconsistencies. Please consider SAP Note 387482.

Related SAP Notes / KBAs

1513607 - Error message VL150 'Only & & of material & & available' is raised while creating a delivery

2229827 - How to debug

2219495 - Debugging guide ERP ATP check

387482 - MRP areas and storage location determination in user exit