

ERP-1370 Determination of Storage Location for Intercompany Consignment Sales - Sales Order Enhancement

Status	Approved
Owner	HALL-ext, Simon
Stakeholders	Sara Loddo / Yamna Hammacha / Tonya Van Aarde / Francine Palmer
Jira Request ID	 ERP-1158 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-1370 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Parameter	Value
Application System	S/4 HANA ROW & S/4 HANA China
Business Process Reference	02.04.02.01. Manage Standard Sales Order

Functional Overview

For the fulfilment of intercompany consignment fill-ups, the line item storage location and supplying plant must be determined in the fill-up (and not the subsequent delivery as per SAP standard) to ensure:

1. The stock passes through the correct storage location as defined by the finance and tax requirements - in this case, a virtual customer specific location specifically for intercompany consignment fill-ups will be used.
2. The subsequent intercompany purchase order can be correctly triggered.

Therefore this development requires:

1. The creation of a custom table in SAP where the storage location & supplying plant can be defined by a combination of sales org, distribution channel, plant, ship-to party & material.
2. When creating a line item or changing the plant in a consignment fill-up, the custom table is checked on save and the line item storage location is updated.

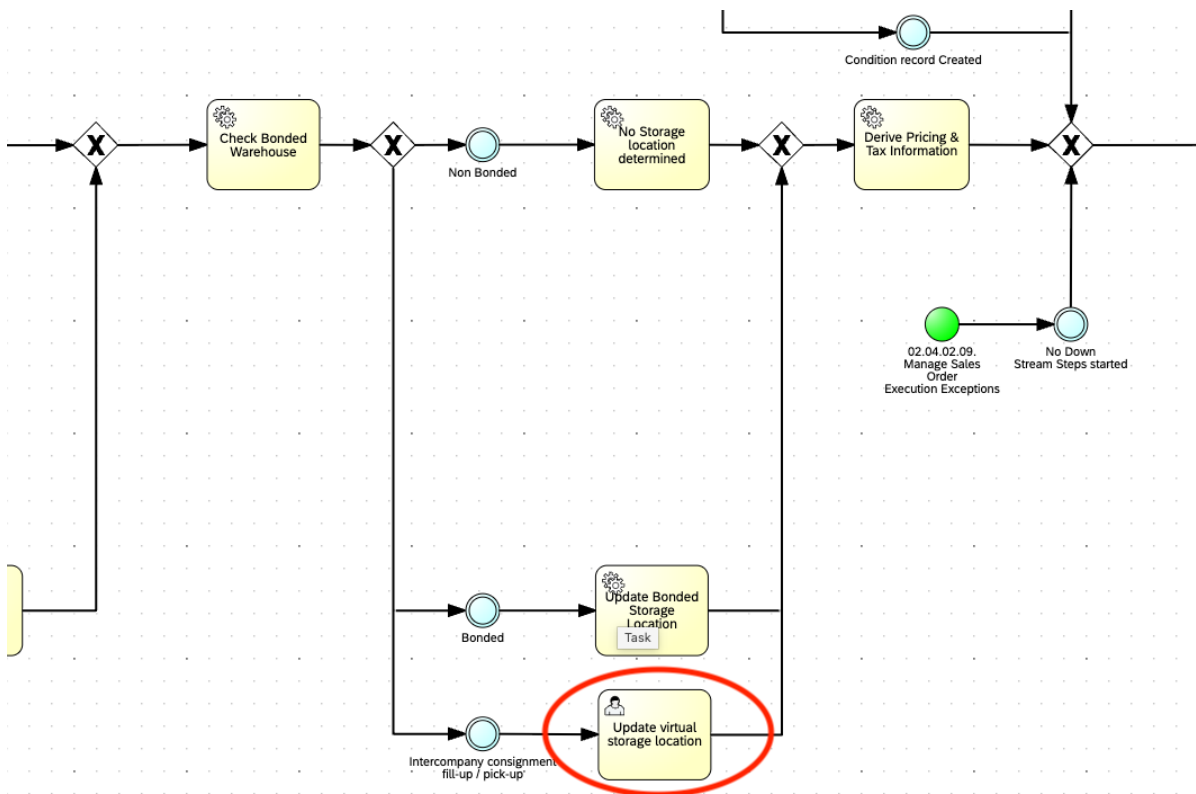
The set up of entries in this custom table will be the trigger for the consignment fill-up to be fulfilled using an intercompany PO. If no entries exist in this table then the consignment fill-up will be fulfilled using the standard non-intercompany process from the default plant and storage location combination.

Scope and Objectives

The scope of this development will cover all consignment fill-ups created in SAP S/4 - both China and RoW instances.

Process Flow Diagram

This system enhancement is only applicable for the highlighted L5 step below:



The following SAP applications and transaction codes are in scope for this enhancement:

SAP Fiori

- **Manage Sales Orders – Version 2 (app ID - F3893)**
 - Create Sales Orders
 - Change Sales Orders

SAP GUI

- **Sales Orders**
 - **VA02** – Change Sales Order

Assumptions

This development is designed for the expected consignment fill-up type of 'KB'. The consignment fill-up type 'KBB' should not be included here as the process may not be compliant in Brazil.

In the unlikely scenario that new consignment fill-up types added then these need to be added into the logic above.

This development is only intended for use within a single instance - either RoW or China. This will not apply for multi-instance solution - the expectation is that this process will be manual between Row <> China.

The only practical option is to use document type as there are no other indicators that a sales document is for consignment purposes (such as doc category). In theory the movement type associated with the schedule line type could be used - as this is unique for consignment - but this may slow down the speed of the update.

Dependencies

Definition of the relevant storage locations and plant assignment.

Security, Integrity and Controls

Should follow the standard authorisation requirements of the sales order

Configuration Requirements

n/a

Language Requirements

No Specific language requirement - the solution should support the SYWAY language approach.

Special Requirements

n/a

Design Rationale

Functional Requirements

Determine Storage location at sales order item level

- If sales document type (VBAK-AUART) = 'KB' then on the initial creation, if a new line item is added or if plant is changed in the line item read custom table from part 1 and update sales order line item with the defined storage location (VBAP-LGORT).
- Determine the storage location VBAP-LGORT by using:
 - Sales org (VBAK-VKORG)
 - Distribution channel (VTWEG)
 - Plant (VBAP-WERKS)
 - Ship-to party (VBAP-KUNWE_ANA)
 - Material (VBAP-MATNR)
- Report error message if no entries found in the custom table.
- Save the updated changes.

Rational for why standard SAP not sufficient

This enhancement is required because standard SAP only allows the determination of the storage location within the delivery document rather than the sales order. Therefore, if no enhancement implemented each time an intercompany consignment fill-up is created, the user would need to know that this specific ship-to / material combination should be supplied from a cross-company plant and make the necessary updates manually in the line item storage location field. Additionally, any consignment fill-ups created automatically (e.g. from EDI) would need to be manually updated.

Proposed Technology to Use

Tech team to confirm - fall back plan is user exit - USEREXIT_SAVE_DOCUMENT_PREPARE within standard SAP S/4 program MV45AFZZ.

Data Source Considerations

n/a

Data Validation Considerations

n/a

Custom Tables

Required custom application table entries below using the attributes of the standard SAP object (e.g. VKORG, WERKS etc) as specified. These entries are maintained in FS ERP-1371 within the CSR business role.

Table	Field	Description
Z ...	VKORG	Sales Org
Z ...	VTWEG	Distribution Channel
Z ...	WERKS	Selling Plant
Z ...	KUNNR	Ship-to Party
Z ...	MATNR	Material No
Z ...	LGORT	Storage Location

Z ...	WERKS	Supplying Plant
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Processing Logic

Before saving the sales order:

1. Check if document type (VBAK-AUART) = 'KB'
2. If true then check custom table above with parameters below to retrieve storage location (LGORT)
 - a. VBAK-VKORG
 - b. VBAK-VTWEG
 - c. VBAP-WERKS
 - d. VBAP-KUNWE_ANA
 - e. VBAP-MATNR
3. Insert storage location (LGORT) into VBAP-LGORT.

Volumetrics

Approx 600 consignment fill-ups per year across all GBUs will be intercompany consignment.

Performance Considerations

n/a

Error Handling

N/a as error handling only relevant for custom table set up in [FS ERP-1370](#).

Testing

How to Test

For the required business function, this test must be run in 2 x parts:

- Part 1 for the master data customer table defined in ERP-1371
- Part 2 for the functional requirement in the intercompany consignment fill-up as specified in this document.

Test Conditions and Expected Results - Storage location definition

ID	Condition	Expected Result
1	Set up a valid storage location determination in the custom table then create a consignment fill-up for intercompany then save.	On save of sales order the storage location defined in the custom table is added into the line item storage location field.
2	Create a consignment fill-up for a non-intercompany scenario then save. Set up a valid intercompany storage location determination in the custom table then change the plant in the fill-up to trigger the auto storage location determination and save.	On save of sales order the storage location defined in the custom table is added into the line item storage location field.
3	Set up a valid storage location determination in the custom table then create a consignment fill-up for the ship-to and material specified in the custom table but not the plant then save.	On save of the sales order, no storage location is determined.

Test Considerations/Dependencies

Relevant intercompany storage locations must already be set up against the relevant plants.

Other Information

Development Details

Package

Package Name	Parent Package

Enhancement Implementation

Enhancement Type	Standard Definition Name	Custom Implementation Name	Design Rationale Reference

Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference

Appendix

Custom Authorization Group Naming Convention

This table is based on the Syensqo development standards document. It provides the naming conventions for authorization groups to associated with custom reports and tables to comply with security requirements.

ABAP	ZFI	ZMM	ZPS	ZCO	ZSD	ZBC	ZFI	ZCA
TABLES	ZFIT	ZMMT	ZPST	ZCOT	ZSDT	ZBCT	ZFIT	ZCAT

See also

File	Modified
No files shared here yet.	

Change log

Version	Published	Changed By	Comment
CURRENT (v. 63)	May 05, 2026 14:36	HALL-ext, Simon	
v. 62	May 05, 2026 14:22	HALL-ext, Simon	
v. 61	May 01, 2026 12:18	HALL-ext, Simon	
v. 60	May 01, 2026 11:07	HALL-ext, Simon	
v. 59	May 01, 2026 11:06	HALL-ext, Simon	
v. 58	Apr 29, 2026 13:48	HALL-ext, Simon	
v. 57	Apr 29, 2026 13:08	HALL-ext, Simon	
v. 56	Apr 29, 2026 12:16	HALL-ext, Simon	

v. 55	Apr 29, 2026 11:10	HALL-ext, Simon
v. 54	Apr 28, 2026 15:13	HALL-ext, Simon

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Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

From Apr 20, 2026 to May 05, 2026	Actor	Type	Activity	Version
Approved	HALL-ext, Simon	Edit	updated the page at 1:34 pm	
Apr 17, 2026				
	 FARIA-ext, Joana	State	changed state to Approved at 11:26 am	v34
Lead Approval	 FARIA-ext, Joana	State	gave <i>POD Lead Review</i> approval at 11:26 am	
	WEINERT-ext, Patrick	State	changed expiry date to '24 Apr, 2026 09:33 am' at 9:33 am	
		State	changed state to Lead Approval at 9:33 am	v34
Tech Review of Updates	WEINERT-ext, Patrick	State	gave <i>Minor change</i> approval at 9:33 am	