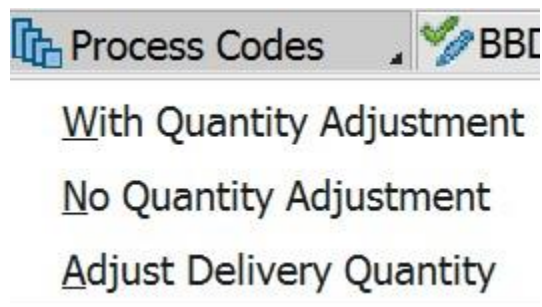


## Optimizing Delivery Quantity Adjustments in SAP EWM with Process Codes

Efficient warehouse operations rely on accurate documentation and adjustment mechanisms. One common challenge in warehouse management is handling delivery quantity differences—whether due to damaged goods, loss in transit, or product unavailability. SAP Extended Warehouse Management (EWM) provides a robust solution through Process Codes, enabling seamless documentation and adjustment of discrepancies.



### Understanding Delivery Quantity Differences

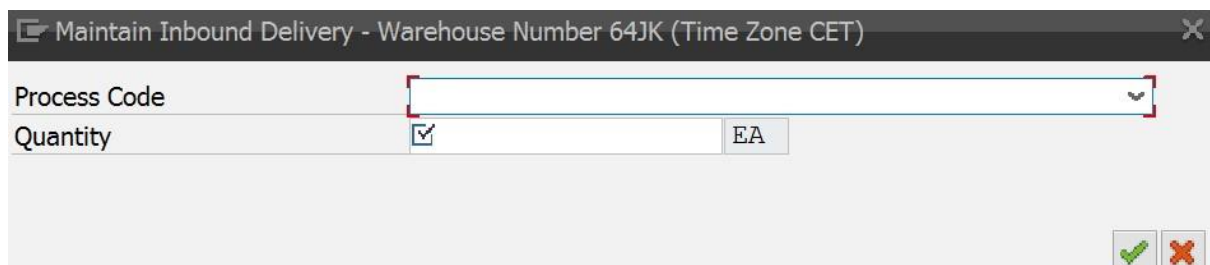
Delivery quantity discrepancies occur in both Inbound and Outbound deliveries due to various operational challenges:

- ◆ Inbound: Goods arriving damaged, partial shipments from vendors, or losses in transit.
- ◆ Outbound: Stock shortages, expired shelf-life items, or missing inventory at the time of picking.

### Managing Quantity Differences with Process Codes

SAP EWM offers three primary options for handling these differences:

✅ **With Quantity Adjustment** – A pop-up prompts users to select a Process Code and enter the quantity difference, ensuring real-time adjustments.



❌ **No Quantity Adjustment** – The Process Code is recorded for documentation without altering delivery quantity. The system applies Process Code I003 automatically.

Maintain Inbound Delivery - Warehouse Number 64JK (Time Zone CET)

Process Code: I003 Delivery Difference, No Adjustment

Quantity:  EA

✦ **Adjust Delivery Quantity** – Allows users to select a Process Code, adjust the quantity, and apply changes to the document flow.

Maintain Inbound Delivery - Warehouse Number 64JK (Time Zone CET)

Process Code: I001 Delivery Difference, Adjust Document

#### Process Code Functionality in SAP S/4HANA

In SAP S/4HANA, outbound delivery requests (ODR) and inbound delivery notifications (IDN) are eliminated. This means:

- ◆ Process Code O002 acts as O001
- ◆ Process Code I002 acts as I001

**Change View "Customer Profile": Overview**

New Entries | BC Set: Change Field Values

Dialog Structure	Customer Profile	Sys. Profile	Description
Customer Profile	Customer Profile	/SCWM/INB_PRD_DLV	Inb. Delivery Standard It...
Process Codes	/SCWM/INB_PRD_DLV	/SCWM/INB_PRD_DLV	

#### Key Process Codes and Their Significance

💡 I001 / O001 - Delivery Difference, Adjust Document

Adjusts the delivery document quantity in EWM.

Changes reflect in the ERP system upon Goods Receipt (GR) or Goods Issue (GI).

📄 I002 / O002 - Delivery Difference, Adjust Document + Quantity

Generates a new ERP document from /SCWM/DLNO.

Requires SNRO interval maintenance to avoid conflicts with ERP number ranges.

In SAP S/4HANA, O002 acts as O001, and I002 acts as I001.

## I003 / O003 - Delivery Difference, No Adjustment

Does not adjust the quantity in ERP or EWM.

Stores the discrepancy for documentation and future reference.

## I004 - Reject Inbound Delivery

Rejects the delivery, setting the quantity to zero in EWM.

Changes reflect in the ERP system immediately.







Configuration and Setup

To enable Process Codes, ensure proper configuration in SAP EWM SPRO settings:

 For Inbound Deliveries:

- ◆ SPRO → SCM EWM → Goods Receipt Process → Define Document Types & Item Types

**Change View "Inbound Delivery Process Item Types": Details**

     BC Set: Change Field Values 

Item Type	IDLV
Doc. Categ.	PDI Inbound Delivery

**Inbound Delivery Process Item Types**

Item Category	DLV Standard Delivery Item
Description	Standard Item - Inbound Delivery

**Profile**

Status Profile	/SCDL/INB_PRD_DLV_STANDARD
Qty. Offset Prf	/SCWM/INB_PRD_DLV
FldContProf	/SCDL/INB_PRD_DLV_STANDARD
Incompl. Prof.	/SCDL/INB_PRD_DLV_STANDARD
Text Profile	/SCDL/INB_PRD_DLV
RefDocCat Prof	/SCWM/INB_PRD_DLV
Partner Profile	/SCWM/INB_PRD_DLV
Date Profile	/SCWM/INB_PRD_DLV
Proc.Code Prof.	/SCWM/INB_PRD_DLV
Process Profile	/SCWM/INB_PRD_DLV

 For Outbound Deliveries:

- ◆ SPRO → SCM EWM → Delivery – Warehouse Request → Process Codes → Maintain Process Codes Profile

## Change View "Inbound Delivery Process Document Types":

 New Entries     BC Set: Change Field Values  Check

Document Type INB  
Doc. Categ. PDI

### Document Types

Description Inbound Delivery  
Int.No.RngeInt. 02  
ERP Ref No is Doc No ☒  
Change Documents ☒  
Ret.Period 365

### Profile


Action Profile	/SCWM/PDI_01
Status Profile	/SCDL/INB_PRD_STANDARD
Text Profile	/SCDL/INB_PRD
FldContProf	/SCDL/INB_PRD_STANDARD
Partner Profile	/SCWM/INB_PRD
Date Profile	/SCWM/INB_PRD
Incompl. Prof.	/SCDL/INB_PRD_STANDARD
Qty. Offset Prf	/SCWM/INB_PRD
RefDocCat Prof	/SCWM/INB_PRD
Process Profile	/SCWM/INB_PRD

### ✦ Defining Process Codes:

◆ SPRO → SCM EWM → Cross Process Settings → Delivery – Warehouse Request → Define Process Codes

## Change View "Process Code": Overview

  New Entries     

Process Code			
Process	Description	Quant.Adj.	Modifiable 
I001	Delivery Difference, Adjust Document	Adjustment of Delivery Quanti...	<input checked="" type="checkbox"/> ^
I002	Delivery Difference, Adj. Doc. + Qty	Adjustment of Delivery Quant...	<input type="checkbox"/> v
I003	Delivery Difference, No Adjustment	No Quantity Adjustment	<input checked="" type="checkbox"/>
I004	Reject Inbound Delivery	Adjustment of Delivery Quant...	<input type="checkbox"/>
I005	Difference in Hierarchy Correlation	Adjustment of Delivery Quant...	<input type="checkbox"/> i
I006	Diff. in Hier. Corr.; Adjust Over. Qty	Adjustment of Delivery Quant...	<input type="checkbox"/>
I007	Adjust Document to 0	Adjustment of Delivery Quant...	<input type="checkbox"/>
O001	Warehouse Difference, Adjust Document	Adjustment of Delivery Quant...	<input checked="" type="checkbox"/>
O002	Warehouse Difference, Adj. Doc. + Qty	Adjustment of Delivery Quant...	<input type="checkbox"/>
O003	Warehouse Difference, No Adjustment	No Quantity Adjustment	<input checked="" type="checkbox"/>
O004	Difference in Hierarchy Correlation	Adjustment of Delivery Quant...	<input type="checkbox"/>
O005	Diff. in Hier. Corr.; Adjust Over. Qty	Adjustment of Delivery Quant...	<input type="checkbox"/>
O006	Warehouse Diff. Merchandise Distribution	Adjustment of Delivery Quant...	<input checked="" type="checkbox"/>

### Adjustment Options:

- ✓ Adjust Delivery Quantity
- ✓ No Quantity Adjustment
- ✓ Adjust Delivery Quantity & Transfer

### Conclusion:

Process Codes are essential for managing quantity differences efficiently in SAP EWM. They ensure accurate documentation, real-time updates, and smooth integration between warehouse and ERP systems.

With SAP S/4HANA, the elimination of outbound delivery requests and inbound delivery notifications has streamlined the process, making O002 equivalent to O001 and I002 equivalent to I001.

How is your organization leveraging Process Codes for delivery adjustments? Let's discuss in the comments! 🙌