Warehouse Inbound Processing with Transportation Integration
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Icons in Body Text

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
<td>Caution</td>
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<td>☛</td>
<td>Example</td>
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<tr>
<td>♛</td>
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<td>Recommendation</td>
</tr>
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<td>❦</td>
<td>Syntax</td>
</tr>
</tbody>
</table>

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see Help on Help → General Information Classes and Information Classes for Business Information Warehouse on the first page of any version of SAP Library.

Typographic Conventions

<table>
<thead>
<tr>
<th>Type Style</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Example text</td>
<td>Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation.</td>
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<tr>
<td>Example text</td>
<td>Emphasized words or phrases in body text, graphic titles, and table titles.</td>
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<tr>
<td>EXAMPLE TEXT</td>
<td>Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.</td>
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<tr>
<td>Example text</td>
<td>Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.</td>
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<tr>
<td>Example text</td>
<td>Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.</td>
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<td>&lt;Example text&gt;</td>
<td>Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.</td>
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<tr>
<td>EXAMPLE TEXT</td>
<td>Keys on the keyboard, for example, F2 or ENTER.</td>
</tr>
</tbody>
</table>
**Table of Contents**

Warehouse Inbound Processing with Transportation Integration .......................... 5
Create purchase order in ERP .................................................................................. 8
Create inbound delivery in ERP ............................................................................. 9
Display inbound delivery in EWM ......................................................................... 10
Create shipment with HU and assign inbound delivery in ERP ........................... 11
Post arrival of TU at checkpoint in EWM .............................................................. 12
Move TU from checkpoint to door in EWM ............................................................ 13
Post goods receipt in EWM .................................................................................... 14
Create unloading warehouse task for inbound delivery in EWM .......................... 15
Confirm unloading warehouse task for inbound delivery in EWM ...................... 16
Confirm product warehouse task for putaway into final bin in EWM ................... 17
Move TU from door to checkpoint in EWM ............................................................ 18
Post departure of TU from checkpoint in EWM .................................................... 19
Maintaining Transportation Relevance .................................................................. 22
Defining Route in ERP for Delivery Creation .......................................................... 23
Maintaining Output Determination for Shipments ............................................... 24
Defining Packaging Material Type in ERP .............................................................. 25
Defining Default Values for IDoc Outbound ........................................................... 26
Defining Process-Oriented Storage Control ........................................................... 27
Activating Shipping and Receiving ....................................................................... 28
Defining Action Profiles for Transportation Units ............................................... 29
Activating Yard Management for Warehouse (Optional) ...................................... 30
Defining Reference Document Type Profiles ....................................................... 31
Defining Staging Areas ......................................................................................... 32
Defining Staging Area and Door Determination Groups ...................................... 33
Defining Warehouse Door .................................................................................... 34
Assigning Staging Area and Door Determination Group to Door ....................... 35
Assigning Staging Area to Warehouse Door ......................................................... 36
Defining Packaging Material Types ...................................................................... 37
Defining Means of Transport ............................................................................... 38
Maintaining Link Between Packaging Material and Means of Transport ............. 39
Defining Checkpoints ......................................................................................... 40
Specifying Storage Type Search Sequence ........................................................... 41
Determining Storage Type Search Sequence for Stock Removal ....................... 42
Defining Control Parameters for Forming Vehicles and TUs .............................. 43
Deactivating Route Determination ....................................................................... 44
Defining Transportation Planning Type .................................................................. 45
Allowing EWM Execution Without Transportation Planning ............................. 46
Implementing Business Add-Ins ........................................................................... 48
Warehouse Inbound Processing with Transportation Integration

This process allows you to use transportation planning of SAP ERP in the inbound process of Extended Warehouse Management (EWM). The process uses the shipment documents as a basis for carrying out transportation planning. The system converts handling units (HUs) in ERP shipments into transportation unit (TU) activities (and optionally vehicle activities). You can control and monitor the entire transportation process from the planning stage to the goods receipt at your own plant.

Prerequisites

You have done the following:

- You have integrated SAP ERP 6.0 or higher with SAP EWM including SAP enhancement package 1. For more information, see Integration of SAP ERP with SAP EWM [External] or Integration of SAP ERP with SAP EWM as an Add On [External].

- You have activated the EWM, Integration with Transportation (SCM_EWM_TRANS_INT_1) business function.

- You have configured the systems for transportation integration. For more information, see Configuration Content for Transportation Integration [External].

- You have created the following master data:
  - Vendor in SAP ERP, which is replicated as business partner and location to EWM using Core Interface (CIF)
  - Products in SAP ERP, which are replicated to EWM using CIF
  - Process type determination indicator (for example, 01) for determination of warehouse processing type (WPT) (for example, 1011) with standard process oriented storage control (for example, IB01 with the steps unloading, deconsolidation, putaway)
  - Packaging material for the creation of HUs in SAP ERP and EWM
  - Packaging material for TU created in SAP ERP and replicated to EWM using CIF
  - Bin in EWM, which needs to be assigned to the door
  - Assignment of packaging material for creation of TU to means of transport
  - Partner profiles in SAP ERP and EWM for sending and receiving system for the relevant message types
  - Output condition records for sending out the SHPMNT05 IDoc from SAP ERP to EWM
The business process runs as follows:

1. Create purchase order (SAP ERP)
2. Create inbound delivery (SAP ERP)
3. Create inbound delivery notification (EWM)
   The system replicates the inbound delivery from SAP ERP to EWM as an inbound delivery notification.
4. Create and display inbound delivery (EWM)
   On the basis of the inbound delivery notification, the system creates an inbound delivery in EWM.
   The system displays that it has blocked the execution of the inbound delivery in EWM as long as planning results are not available. In the Details Delivery and Details Delivery Item screen areas, on the Status tab page, the DBT – Blocked (Transp. Plan) status type is set.
   The system displays that SAP ERP is responsible for transportation planning. In the Delivery screen area, the Transportation Planning Type field has the value A – Obligatory External Planning in ERP.
5. Create shipment with HU and assign inbound delivery (SAP ERP)
6. Create TU activity and assign inbound delivery (EWM)
   The system sends the SHPMNT05 IDoc from SAP ERP to EWM. In EWM, the system creates a TU activity (and optionally a vehicle activity) out of the HU and assigns the inbound delivery to the TU activity. The system updates the transportation data in the delivery header from TU (for example, means of transport, vehicle). The system releases the inbound delivery for execution. The DBT – Blocked (Transp. Plan) status in EWM is not set.
7. Post arrival of TU at checkpoint (EWM)

The system sets the *State of Shipping and Receiving Activity* status to 1 – Active.

8. Move TU from checkpoint to door (EWM)

To do so, create, and confirm a warehouse task for the movement of the TU from the checkpoint to the door.

9. Post goods receipt (EWM)

10. Post goods receipt (SAP ERP)

The system replicates the goods receipt from EWM to SAP ERP. The system sets the *Goods Receipt Status* of the delivery on header and item level to complete. The system creates an entry in the document flow of the inbound delivery in SAP ERP for goods receipt.

11. Create unloading warehouse task for inbound delivery (EWM)

The system creates an inactive product warehouse task for putaway into the final bin.

12. Confirm unloading warehouse task for inbound delivery (EWM)

The system sets the unloading status on header level to complete.

13. Create product warehouse task for putaway into final bin (EWM)

The system activates the product warehouse task for putaway. The system creates a warehouse order for movement of HU from TU to staging area.

14. Confirm product warehouse task for putaway into final bin (EWM)

The system sets the putaway status on inbound delivery header and item level to complete. The system confirms the warehouse order for movement of HU from TU to staging area.

15. Perform posting change (EWM)

The system creates a posting change document in EWM about the change of the stock type from *F1 – Unrestricted-Use in Putaway* to *F2 – Unrestricted-Use Warehouse*. The system displays the posting change document as a document flow entry on inbound delivery item level in EWM.

16. Perform posting change (SAP ERP)

The system replicates the posting change document from EWM to SAP ERP as a posting change document from storage location *ROD – Received on Dock* to storage location *AFS – Available for Sale*.

17. Move TU from door to checkpoint (EWM)

To do so, create, and confirm a warehouse task for the movement of the TU from the door to the checkpoint.

18. Post departure of TU from checkpoint (EWM)

The system updates the status of the TU: It sets the *CHKO – Departure from Checkpoint* status and the *SR Activity State* to complete.
Create purchase order in ERP

Procedure

1. In SAP ERP, on the SAP Easy Access screen, choose Logistics > Materials Management > Purchasing > Purchase Order > Create > Vendor/Supplying Plant Known.

2. Enter a vendor.

3. In the Header screen area, choose the Org. Data tab page.

4. Enter the following data:
   - Purch. Org. (Purchasing Organization)
   - Purch. group (Purchasing Group)
   - Company Code

5. In the Item Overview screen area, enter the following data:
   - Material
   - PO Quantity (Purchase Order Quantity)
   - Net Price
   - Currency
   - Plnt (Plant)
   - Stor. Location (Storage Location)

6. Press Enter.

7. Check whether you can meet the delivery date. If not, modify it.

8. In the Item Details screen area, choose the Confirmations tab page.

9. In the Conf. Control (Confirmation Control) field, enter Inbound Delivery.

10. Save your entries.

11. Note down the purchase order number that is displayed in the status bar.

Result

You have created a purchase order in ERP.
Create inbound delivery in ERP

Procedure

1. In SAP ERP, on the SAP Easy Access screen, choose Logistics > Logistics Execution > Inbound Process > Goods Receipt for Inbound Delivery > Inbound Delivery > Create > Single Documents.

2. Enter a vendor, a purchase order, and a unique external ID.

3. Press Enter.

   The system displays the item overview of the inbound delivery.

4. Optionally, you can change the delivery quantity.

5. Choose the Pack button.

6. On the Pack material tab page, enter a packaging material and press Enter.

   The system displays the handling unit.

7. Select the packaging material.

8. In the Material to Be Packed screen area, select the material.

9. Choose the Pack button.

   The system packs the selected material in the selected packaging material.

10. Save your entries.

Result

You have created an inbound delivery in ERP. The system replicates this inbound delivery from ERP to EWM.
Display inbound delivery in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management ➤ Delivery Processing ➤ Inbound Delivery ➤ Maintain Inbound Delivery.

2. In the Find fields, enter ERP Document and the number of the inbound delivery that you have created in ERP.

3. Choose the Perform Search button.

Result

The procedure has the following results:

- The system displays the inbound delivery.

- The system displays that the execution of the inbound delivery in EWM is blocked as long as planning results are not available. In the Details Delivery and Details Delivery Item screen areas, on the Status tab page, the DBT – Blocked (Transp. Plan) status type is set.

- The system displays that ERP is responsible for transportation planning. In the Delivery screen area, the Transportation Planning Type field has the value A – Obligatory External Planning in ERP.
Create shipment with HU and assign inbound delivery in ERP

Procedure

1. In ERP, on the SAP Easy Access screen, choose Logistics ➤ Logistics Execution ➤ Transportation ➤ Transportation Planning ➤ Create ➤ Single Documents.

2. Enter a transportation planning point and a shipment type.

3. Press Enter.

4. On the Processing tab page, enter a forwarding agent and press Enter.

5. Assign inbound deliveries to the shipment in the following way:
   1. Choose the Select Deliveries (F6) button.
   2. Enter the selection criteria and choose the Execute (F8) button.
   3. The system displays the shipment with the assigned deliveries.

6. Create a handling unit (HU) in the following way:
   1. Choose the Means of Transport and Packaging Matl for Current Shipment (Shift+F9) button.
   2. On the Pack material tab page, enter a packaging material and press Enter.
   3. Note down the HU number.

7. Save your entries.

Result

The procedure has the following results:

- You have created a shipment in ERP, to which you have assigned inbound deliveries. Within the shipment, you have created an HU for the creation of a TU in EWM.

- The system has sent the SHPMNT05 IDoc from ERP to EWM.

- The system has created a TU activity (and optionally a vehicle activity) out of the HU in EWM.

- The system has assigned the inbound delivery to the TU activity in EWM.

- The system has updated the transportation data in delivery headers from the TU (for example, means of transport, vehicle).

- The system has released the inbound delivery for execution. The DBT – Blocked (Transp. Plan) status in EWM is not set.
Post arrival of TU at checkpoint in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, go to Extended Warehouse Management ➔ Shipping and Receiving ➔ Yard Management ➔ Arrival at/Departure from Checkpoint.

2. In the Find fields, enter Transportation Unit and the transportation unit (TU) number.

3. Choose the Search (F8) button.
   The system displays the TU.

4. Choose the Arrival at Checkpoint + Save button.

Result

The procedure has the following results:

- You have posted the arrival of the TU at the checkpoint in EWM.
- The State of Shipping and Receiving Activity field has the value 1 – Active.
Move TU from checkpoint to door in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management ➤ Shipping and Receiving ➤ Yard Management ➤ Create Warehouse Task in Yard.

2. In the Find fields, enter TU (Transportation Unit) and the TU number.

3. Choose the Search button.

   The system displays the TU.

4. Switch to form view.

5. Enter a warehouse process type.

6. Enter a free destination warehouse door by using the value help.

7. Choose the Create + Save for TUs (Create + Save TU Yard Movement) button.

   The system displays the open warehouse tasks in yard.

8. Choose the WTs in Yard (Confirm Yard Movemt in Background) button.

9. Save your entries.

Result

You have created and confirmed a warehouse task for the movement of the TU from the checkpoint to the door in EWM.
Post goods receipt in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management ➤ Delivery Processing ➤ Inbound Delivery ➤ Maintain Inbound Delivery.

2. In the Find fields, enter ERP Document and an ERP inbound delivery number.

3. Choose the Perform Search button.
   The system displays the inbound delivery.

4. Select the inbound delivery and choose the Goods Receipt + Save button.

Result

The procedure has the following results:

- You have posted the goods receipt in EWM.
- The system has replicated the goods receipt from EWM to ERP.
- The system has set the Goods Receipt Status of the delivery on header and item level to complete.
- The system has created an entry in the document flow of the inbound delivery in ERP for goods receipt.
Create unloading warehouse task for inbound delivery in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management Work Scheduling Create Warehouse Task for Warehouse Request Putaway for Inbound Delivery.

2. Enter an EWM warehouse request number and choose the Perform Search button. The system displays the warehouse request.

3. Choose the Handling Units tab page.

4. Choose the Create and Save Warehouse Task button.

Result

You have created an inactive product warehouse task for putaway into the final bin.
Confirm unloading warehouse task for inbound delivery in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management ➔ Execution ➔ Confirm Warehouse Task.

2. In the Find fields, enter Source Handling Unit and enter the handling unit (HU) number.

3. Choose the Execute Search button.

   The system displays the HU.

4. On the HU WT tab page, select your HU.

5. In the upper screen area, choose the Confirm + Save button.

Result

The procedure has the following results:

- The system has set the unloading status on header level to complete.
- The system has activated the product warehouse task for putaway.
- The system has created a warehouse order for the movement of the HU from the transportation unit (TU) to the staging area.
Confirm product warehouse task for putaway into final bin in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management ➤ Execution ➤ Confirm Warehouse Task.

2. In the Find fields, enter Source Handling Unit and the handling unit (HU) number.

3. Choose the Execute Search button.

   The system displays the HU.

4. Double-click the first warehouse task (WT) for which the WO Status (Warehouse Order Status) is open.

5. On the Product WT tab page, select the warehouse task and choose the Confirm + Save button.

Result

The procedure has the following results:

- You have confirmed the product WT for putaway of the product into the final bin in EWM.

- The system has set the Putaway status on inbound delivery header and item level to complete.

- The system has confirmed the warehouse order for putaway of the HU from the TU to the staging area.

- The system has created a posting change document in EWM about the change of the stock type from F1 – Unrestricted-Use in Putaway to F2 – Unrestricted-Use Warehouse and replicated it to ERP as a posting change document from storage location ROD – Received on Dock to storage location AFS – Available for Sale.

- The system displays the posting change document as a document flow entry on inbound delivery item level in EWM.
Move TU from door to checkpoint in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management → Yard Management → Create Warehouse Task in Yard.

2. In the Find fields, enter TU (Transportation Unit) and the TU number.

3. Choose the Search button.

   The system displays the TU.

4. Switch to form view and enter a warehouse process type (for example, 9999) and a destination checkpoint.

5. Choose the Create + Save for TUs button.

6. On the Open WTs in Yard tab page, choose the WTs in Yard (Confirm Yard Movement in Background) button.

7. Save your entries.

Result

You have created and confirmed a warehouse task for the movement of the TU from the door to the checkpoint in EWM.
Post departure of TU from checkpoint in EWM

Procedure

1. In EWM, on the SAP Easy Access screen, choose Extended Warehouse Management ➤ Shipping and Receiving ➤ Yard Management ➤ Arrival at/Departure from Checkpoint.

2. In the Find fields, enter Transportation Unit and the transportation unit (TU) number.

3. Choose the Search (F8) button.
   
   The system displays the TU.

4. Select the TU and choose the Dep. from Checkpoint button.

Result

You have posted the departure of TU from checkpoint in EWM. The system has updated the status of the TU: it has set the CHKO – Departure from Checkpoint (CHKO) status and the SR Activity State to complete.
Configuration Content for Transportation Integration

With the following Customizing activities, you define a business process for the integration with the Transportation (LE-TRA) component of SAP ERP.

Prerequisites

You have made the following settings:

- You have integrated SAP ERP 6.0 with SAP Extended Warehouse Management (EWM) 7.0 including SAP enhancement package 1. For more information, see Integration of SAP ERP with SAP EWM [External] or Integration of SAP ERP with SAP EWM as an Add On [External].

- You have configured your systems for the outbound process. For more information, see Configuration Content for Outbound Process with Wave [External].

- You have activated the EWM, Integration with Transportation (SCM_EWM_TRANS_INT_1) business function.

- You have activated the following BC Sets:
  - /SCWM/DLV_OUTBOUND_TRANSP_INT
  - /SCWM/DLV_INBOUND_TRANSP_INT

Process

1. Maintaining Transportation Relevance [Page 22]
2. Defining Route in ERP for Delivery Creation [Page 23]
4. Defining Packaging Material Type in ERP [Page 25]
5. Defining Default Values for IDoc Outbound [Page 26]
6. Defining Process-Oriented Storage Control [Page 27]
7. Activating Shipping and Receiving [Page 28]
8. Defining Action Profiles for Transportation Units [Page 29]
9. Activating Yard Management for Warehouse (Optional) [Page 30]
10. Defining Reference Document Type Profiles [Page 31]
11. Defining Staging Areas [Page 32]
12. Defining Staging Area and Door Determination Groups [Page 33]
13. Defining Warehouse Door [Page 34]
14. Assigning Staging Area and Door Determination Group to Door [Page 35]
15. Assigning Staging Area to Warehouse Door [Page 36]
16. Defining Packaging Material Types [Page 37]
17. Maintaining Means of Transport [Page 38]
19. Defining Checkpoints [Page 40]
20. Specifying Storage Type Search Sequence [Page 41]
21. Determining Storage Type Search Sequence for Stock Removal [Page 42]
22. Defining Control Parameters for Forming Vehicles and Transportation Units [Page 43]
23. Deactivating Route Determination [Page 44]
24. Defining Transportation Planning Type [Page 45]
25. Allow EWM Execution Without Transportation Planning [Page 46]
26. Implement Business Add-Ins [Page 48]
Maintaining Transportation Relevance

Procedure

1. In Customizing for SAP ERP, choose Logistics Execution » Transportation » Shipments » Maintain Transportation Relevance » Maintain transportation relevance for delivery types ».

2. Select the Rel. transport (Transportation relevant indicator for delivery) checkbox for the following delivery types:
   - LO – Delivery w/o Ref.
   - EL – Inbound Delivery.

3. Save your entries.
Defining Route in ERP for Delivery Creation

You can use this procedure to define routes and the determination of routes in SAP ERP. Route determination is a function of SAP ERP, which is needed for transport integration. Necessary master data is the following: address data of ship-to-party and shipping point containing country and transportation zone.

Procedure

1. In Customizing for SAP ERP, choose Logistics Execution ➔ Transportation ➔ Basic Transportation Functions ➔ Routes ➔ Define Routes ➔ Define Routes and Stages.

2. Define at least one route or use an existing one.

   If you define a new route, select the Rel. Transport (Relevance for transportation ID) checkbox. Otherwise, the system cannot assign outbound deliveries to the shipment.

3. Save your entries.

4. In Customizing for SAP ERP, choose Logistics Execution ➔ Transportation ➔ Basic Transportation Functions ➔ Routes ➔ Route Determination ➔ Define Transportation Zones.

5. Define your own transportation zones or use existing ones.

6. Maintain address data of your ship-to-party and shipping point.

7. Save your entries.

8. In Customizing for SAP ERP, choose Logistics Execution ➔ Transportation ➔ Basic Transportation Functions ➔ Routes ➔ Route Determination ➔ Define Transportation Groups.

9. Define your own transportation groups or use existing ones.

10. Assign your products to this transportation group.

11. Save your entries.

12. In Customizing for SAP ERP, choose Logistics Execution ➔ Transportation ➔ Basic Transportation Functions ➔ Routes ➔ Route Determination ➔ Maintain Route Determination.

13. Enter a route determination for your departure country and departure transportation zone, based on shipping condition and transportation group.

14. Save your entries.
Maintaining Output Determination for Shipments

Procedure

1. In Customizing for SAP ERP, choose Logistics Execution > Transportation > Basic Transportation Functions > Output Control > Maintain Output Determination for Shipments > Maintain Output Types.

2. Copy the SEDI output type as ZEWM.

3. On the Default values tab page, change the partner function from CR (Forwarding Agent) to LS (Logical System).

4. Press Enter.

   A dialogue window appears.

5. Select copy all and confirm the message by pressing Enter.

6. Select the ZEWM output type and choose the Partner functions view.

7. Delete the exiting partner function.

8. Choose New Entries and enter the following data:
   
   o Medium: EDI
   
   o Function: LS (Logical system)

9. Save your entries.


11. For the existing output determination procedures V70001 and V7STRA add a new entry under control data for the new condition type ZEWM.

12. Save your entries.


14. Make sure that for the shipment types you are using for the transportation integration you have assigned either the determination procedure V70001 or V7STRA.

15. Save your entries.
Defining Packaging Material Type in ERP

You can use this procedure to define the packaging material type. It combines packaging materials into groups and contains essential control features that apply to the corresponding packaging materials.

Procedure

1. In Customizing for SAP ERP, choose Logistics - General » Handling Unit Management » Basics » Define Packaging Material Types.

2. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>PkMtT (Packaging Material Type)</td>
<td>PM01</td>
</tr>
<tr>
<td>OutputDet.Proc. (Output determination procedure)</td>
<td>Leave the field empty.</td>
</tr>
<tr>
<td>Output Type</td>
<td>Leave the field empty.</td>
</tr>
<tr>
<td>Sort (Sort Sequence for Displaying Handling Unit)</td>
<td>Leave the field empty.</td>
</tr>
<tr>
<td>Plant determin. (Plant Determination for Handling Units)</td>
<td>A - Plant proposed from the packaging material</td>
</tr>
<tr>
<td>Pack.matl cat. (Packaging Material Category)</td>
<td>A - Means of Transport</td>
</tr>
<tr>
<td>GenerateDlvItms (Indicator: Generate Delivery Items)</td>
<td>Leave the field empty.</td>
</tr>
<tr>
<td>Number assgnmt (Type of external handling unit number assignment)</td>
<td>B - Number range interval 'HU_VEKP'</td>
</tr>
<tr>
<td>HU type</td>
<td>1 - Pallet or 2 - Container</td>
</tr>
<tr>
<td>Int. interval (Number range interval for internal number assignment)</td>
<td>01</td>
</tr>
<tr>
<td>Ext. interval (External number range interval for HU number assignment)</td>
<td>02</td>
</tr>
<tr>
<td>Tare variable (Indicator: Tare Weight of Packaging Material is Variable)</td>
<td>Leave the field empty.</td>
</tr>
<tr>
<td>Status Profile (Status Profile for Handling-Unit User Status)</td>
<td>Leave the field empty.</td>
</tr>
</tbody>
</table>

You need to use this packaging material type as Std Code (Standard Code for Means of Transport) for the assignment to the means of transport.

3. Save your entries.
Defining Default Values for IDoc Outbound

Prerequisites

For more information about the prerequisites for IDoc processing, see the documentation in Customizing for Extended Warehouse Management under Interfaces ERP Integration Define Default Values for IDoc Outbound.

Procedure

1. In Customizing for Extended Warehouse Management, choose Interfaces ERP Integration Define Default Values for IDoc Outbound.
2. Enter default values for IDoc.
3. Save your entries.
Defining Process-Oriented Storage Control

Procedure


2. Choose the Assign Storage Process Step view.
   A dialogue box appears.

3. Enter a warehouse number (for example, 0001) and a storage process (for example, INB1).

4. Press Enter.

5. For IB01 – Unload in step 1, select the Prod/HU WT (Create Putaway WTs or HU Pick-WTs) checkbox.

6. For IB02 – Deconsolidate in step 4, deselect the Prod/HU WT (Create Putaway WTs or HU Pick-WTs) checkbox.

7. Save your entries.
Activating Shipping and Receiving

You can use this procedure to activate the shipping and receiving function at warehouse level.

Procedure

1. In Customizing for Extended Warehouse Management, choose  Cross-Process Settings  Shipping and Receiving  General Settings  Deactivate Shipping and Receiving for Warehouse.

2. Deselect the Deact.S&R (Deactivate Shipping and Receiving) checkbox for the appropriate Warehouse Number, for example, 0001 – Central Warehouse.

3. Save your entries.
Defining Action Profiles for Transportation Units

Procedure

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings > Shipping and Receiving > Message Processing > Define Action Profiles for Transportation Units.

2. Select the action profile /SCWM/TU – Shipping & Receiving – Transportation Unit.

3. Choose the Action Definition view.

4. Deselect the Inactive checkbox for the following action definitions:
   - /SCWM/SR_SEND_SHIPPL
   - /SCWM/SR_SEND_SHPMNT

5. Save your entries.
Activating Yard Management for Warehouse (Optional)

You can use this procedure to activate the yard management function at warehouse level. This is not mandatory for transportation integration.

Procedure


2. Select the YM Actv. (Activate Yard Management) checkbox for the appropriate Warehouse Number, for example, 0001 - Central Warehouse.

3. Save your entries.
Defining Reference Document Type Profiles

Procedure


2. Select the /SCWM/INB_PRD customer profile.


4. Deselect the Inactive checkbox for the FRD document category.

5. Save your entries.
Defining Staging Areas

You can use this procedure to define staging areas. Staging areas are storage sections that fall within a storage type with role 'D'. Staging areas are used to provide interim storage for goods after unloading or before loading. During loading, the sequence of the bins in the staging area can be used as a loading sequence.

Procedure

1. In Customizing for Extended Warehouse Management, choose | Master Data | Staging Areas | Define Staging Areas |

2. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse Number</td>
<td>0001</td>
</tr>
<tr>
<td>Storage Type</td>
<td>9010</td>
</tr>
<tr>
<td>Storage Section</td>
<td>0001</td>
</tr>
<tr>
<td>GR (Goods Receipt Activities)</td>
<td>Select the checkbox.</td>
</tr>
<tr>
<td>GI (Goods Issue Activities)</td>
<td>Do not select the checkbox.</td>
</tr>
<tr>
<td>Load.Rule (Loading Rule)</td>
<td>Leave the field empty.</td>
</tr>
</tbody>
</table>

3. Save your entries.

4. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse Number</td>
<td>0001</td>
</tr>
<tr>
<td>Storage Type</td>
<td>9020</td>
</tr>
<tr>
<td>Storage Section</td>
<td>0001</td>
</tr>
<tr>
<td>GR (Goods Receipt Activities)</td>
<td>Do not select the checkbox.</td>
</tr>
<tr>
<td>GI (Goods Issue Activities)</td>
<td>Select the checkbox.</td>
</tr>
<tr>
<td>Load.Rule (Loading Rule)</td>
<td>Leave the field empty.</td>
</tr>
</tbody>
</table>

5. Save your entries.
Defining Staging Area and Door Determination Groups

You can use this grouping to differentiate between requirements during loading and unloading. You can enter the staging area group and door determination group during product definition. It influences staging area determination and door determination.

Procedure

1. In Customizing for Extended Warehouse Management, choose Master Data Staging Areas Define Staging Area and Door Determination Groups.

2. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse Number</td>
<td>0001</td>
</tr>
<tr>
<td>SA/DDetGrp (Staging Area/Door Determination Group)</td>
<td>TM</td>
</tr>
<tr>
<td>Description</td>
<td>TM Integration</td>
</tr>
</tbody>
</table>

3. Save your entries.
Defining Warehouse Door

You can use this procedure to define doors for your warehouse number.

Procedure

1. In Customizing for Extended Warehouse Management, choose Master Data Warehouse Door Define Warehouse Door.

2. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse Number</td>
<td>0001</td>
</tr>
<tr>
<td>Whse Door (Warehouse Door)</td>
<td>TM01</td>
</tr>
<tr>
<td>Load.Dir (Loading Direction of Warehouse Door)</td>
<td>B - Inbound and Outbound</td>
</tr>
<tr>
<td>Action Profile</td>
<td>Leave the field empty.</td>
</tr>
<tr>
<td>NRNo (Number Range Number)</td>
<td>01</td>
</tr>
<tr>
<td>DfStgArGrp (Default Staging Area Group)</td>
<td>9020</td>
</tr>
<tr>
<td>DfStgAre (Default Staging Area)</td>
<td>0001</td>
</tr>
<tr>
<td>Def. Mtr (Default Means of Transport)</td>
<td>Leave the field empty.</td>
</tr>
</tbody>
</table>

3. Save your entries.
Assigning Staging Area and Door Determination Group to Door

You can use this procedure to define which staging area groups and door determination groups are permitted for a warehouse door. You can use this, for example, to separately control warehouse doors with bulk material and warehouse doors with palleted goods.

Procedure

1. In Customizing for Extended Warehouse Management, choose Master Data > Warehouse Door > Assign Staging Area/Door Determination Group to Door.

2. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse Number</td>
<td>0001</td>
</tr>
<tr>
<td>Whse Door (Warehouse Door)</td>
<td>TM01</td>
</tr>
<tr>
<td>SA/DDetGrp (Staging Area/Door Determination Group)</td>
<td>TM</td>
</tr>
</tbody>
</table>

3. Save your entries.
### Assigning Staging Area to Warehouse Door

You can use this procedure to make the assignment between staging areas and warehouse doors. During this assignment, the system takes into account the possible loading and unloading activities for the staging areas and doors. These assignments are the basis for the determination rules (staging area, group, and door) in the delivery.

#### Procedure

1. In Customizing for Extended Warehouse Management, choose > Master Data > Warehouse Door > Assign Staging Area to Warehouse Door.

2. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse Number</td>
<td>0001</td>
</tr>
<tr>
<td>Whse Door (Warehouse Door)</td>
<td>TM01</td>
</tr>
<tr>
<td>StgAreaGrp (Staging Area Group)</td>
<td>9020</td>
</tr>
<tr>
<td>StgArea (Staging Area)</td>
<td>0001</td>
</tr>
</tbody>
</table>

3. Save your entries.
Defining Packaging Material Types

You can use this procedure to define the packaging material from which the transportation unit (TU) is created.

Procedure


2. Set the PMCat (Packaging Material Category) to A - Means of Transport, Transport Element, Transport Unit for the PkMtT (Packaging Material Type) from which the system creates the TU.

3. Save your entries.
Defining Means of Transport

You can use this procedure to define the means of transport.

Procedure

1. In Customizing for Extended Warehouse Management, choose Master Data Shipping and Receiving Define Means of Transport.

2. Copy the entry 0001 and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTr (Means of Transport)</td>
<td>ZMTR</td>
</tr>
<tr>
<td>MTr Description (Means of Transport Description)</td>
<td>TM Integration</td>
</tr>
<tr>
<td>Std Code (Standard Code for Means of Transport)</td>
<td>Road</td>
</tr>
<tr>
<td>Std Code (Standard Code for Means of Transport)</td>
<td>PM01</td>
</tr>
</tbody>
</table>

The Std Code (Standard Code for Means of Transport) needs to be the same as the packaging material type in SAP ERP.

3. Save your entries.
Maintaining Link Between Packaging Material and Means of Transport

You can use this procedure to determine the means of transport for the packaging material that is used to create a transportation unit (TU) (and optionally a vehicle).

**Procedure**

1. On the SAP Easy Access screen, choose `Extended Warehouse Management` > `Settings` > `Shipping and Receiving` > `Link Between Packaging Material (TU) and Means of Transport`.

2. Choose *New Entries* and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTr (Means of Transport)</td>
<td>ZMTR</td>
</tr>
<tr>
<td>Pack. Material (Packaging Material)</td>
<td>PACKMAT01</td>
</tr>
<tr>
<td>Optional</td>
<td>Select the checkbox.</td>
</tr>
</tbody>
</table>

Based on the planning results of a shipment (assigned deliveries and handling units) received from SAP ERP, EWM can automatically create TU activities and vehicle activities and assign deliveries to them if warehouse execution has not yet started. Based on the assigned handling unit (HU) data from SAP ERP, the system creates TU activities and vehicle activities in the following way:

- If you have one HU assigned to the shipment and you have selected the *Optional* checkbox, the system creates only a TU activity.
- If you have one HU assigned to the shipment and you have not selected the *Optional* checkbox, the system creates both a TU activity and a vehicle activity.
- If you have more than one HU on the same level, the system uses the first HU to create a vehicle activity and it uses the remaining HUs to create TU activities. In this case, the system does not consider the setting of the *Optional* checkbox.
- If you have nested HUs, the system uses the highest-level HU to create a vehicle activity, and it uses the lower-level HUs to create TU activities. In this case, the system does not consider the setting of the *Optional* checkbox.

3. Save your entries
### Defining Checkpoints

You can use this procedure to define control points. You need control points to use yard management.

**Procedure**

1. In Customizing for Extended Warehouse Management, choose `Master Data > Shipping and Receiving > Yard Management > Define Checkpoints`.

2. Choose *New Entries* and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse Number</td>
<td>0001</td>
</tr>
<tr>
<td>Checkpoint</td>
<td>CHKP</td>
</tr>
<tr>
<td>Description</td>
<td>Checkpoint for TM</td>
</tr>
</tbody>
</table>

3. Save your entries.
Specifying Storage Type Search Sequence

You can use this procedure to define your picking strategies.

Procedure

1. In Customizing for Extended Warehouse Management, choose » Goods Issue Process » Strategies » Specify Storage Type Search Sequence ».

2. Copy entry 0001 – PICK and assign the storage types in which your products are stored in your warehouse.

3. Save your entries.
Determining Storage Type Search Sequence for Stock Removal

You can use this procedure to determine the storage type search sequence.

Procedure


2. Choose the entry that is related to your warehouse process type used for picking (in standard 2010) and assign your storage type search sequence.

3. Save your entries.
Defining Control Parameters for Forming Vehicles and TUs

You can use this procedure to define further control parameters for forming vehicles and transportation units. You can specify the following parameters for each means of transport and for each transportation unit or vehicle.

Procedure

1. In Customizing for Extended Warehouse Management, choose Cross-Process Settings > Shipping and Receiving > General Settings > Define Control Parameters for Forming Vehicles/Transportation Units.

2. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTr (Means of Transport)</td>
<td>ZMTR</td>
</tr>
<tr>
<td>Vehc./TU (Vehicle/TU)</td>
<td>TU Transportation Unit</td>
</tr>
<tr>
<td>NRNo (Number Range Number)</td>
<td>01</td>
</tr>
<tr>
<td>Action Profile</td>
<td>/SCWM/TU</td>
</tr>
<tr>
<td>StatProf (Status Profile)</td>
<td>Leave the field empty.</td>
</tr>
</tbody>
</table>

3. Save your entries.

4. Choose New Entries and enter the following data:

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTr (Means of Transport)</td>
<td>ZMTR</td>
</tr>
<tr>
<td>Vehc./TU (Vehicle/TU)</td>
<td>VEH Vehicle</td>
</tr>
<tr>
<td>NRNo (Number Range Number)</td>
<td>01</td>
</tr>
<tr>
<td>Action Profile</td>
<td>/SCWM/VEH</td>
</tr>
<tr>
<td>StatProf (Status Profile)</td>
<td>Leave the field empty.</td>
</tr>
</tbody>
</table>

5. Save your entries.
Deactivating Route Determination

You can use this procedure to activate the ERP (SD) route.

Procedure

1. In Customizing for Extended Warehouse Management, choose ‣ Goods Issue Process ‣ Outbound Delivery ‣ Route Determination ‣ Activate or Deactivate Route Determination.

2. Choose New Entries and enter at least the document category and the document type for which the route determination should be deactivated (as shown in the example):

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse No. (Warehouse Number)</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>Document Type</td>
<td>OUTB</td>
</tr>
<tr>
<td>Doc.Categ. (Document Category)</td>
<td>PDO</td>
</tr>
<tr>
<td>RD/RC Status (Route Determination)</td>
<td>3 — Route Determination Inactive</td>
</tr>
<tr>
<td>RD Seq. (Route Determination Sequence)</td>
<td>Standard Logic</td>
</tr>
<tr>
<td>RD ERP (Determination Depending on Route Origin)</td>
<td>No Route Determination if Route Origin is in ERP (SD)</td>
</tr>
</tbody>
</table>

3. Save your entries.
Defining Transportation Planning Type

You can use this procedure to define a transportation scenario for inbound or outbound processing.

Procedure

Goods Issue Process

1. In Customizing for Extended Warehouse Management, choose  Goods Issue Process  Outbound Deliveries  Integration with Transportation  Define Transportation Planning Type (Outbound).

2. Choose New Entries and enter at least the document category and the document type, for which the transportation integration should be active (as shown in the example):

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse No. (Warehouse Number)</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>Doc.Categ. (Document Category)</td>
<td>PDO</td>
</tr>
<tr>
<td>Document Type</td>
<td>OUTB</td>
</tr>
<tr>
<td>Business System</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>TransPlanType (Transportation Planning Type)</td>
<td>A - External Planning in ERP or B - Obligatory Internal Planning in EWM</td>
</tr>
</tbody>
</table>

3. Save your entries.

Goods Receipt Process

1. In Customizing for Extended Warehouse Management, choose  Goods Receipt Process  Inbound Deliveries  Integration with Transportation  Define Transportation Planning Type (Inbound).

2. Choose New Entries and enter at least the document category and the document type, for which the transportation integration should be active (as shown in the example):

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse No. (Warehouse Number)</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>Doc.Categ. (Document Category)</td>
<td>PDI</td>
</tr>
<tr>
<td>Document Type</td>
<td>INB</td>
</tr>
<tr>
<td>Business System</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>TransPlanType (Transportation Planning Type)</td>
<td>A - External Planning in ERP</td>
</tr>
</tbody>
</table>

3. Save your entries.
Allowing EWM Execution Without Transportation Planning

You can use this procedure to enable inbound or outbound processing even if no transportation planning has been received in EWM.

Procedure

Goods Issue Process

1. In Customizing for Extended Warehouse Management, choose ➔ Goods Issue Process ➔ Outbound Deliveries ➔ Integration with Transportation ➔ Allow EWM Execution Without Transportation Planning (Outbound) ➔.

2. Choose New Entries and enter at least the document category and the document type, for which the transportation integration should be active (as shown in the example):

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse No. (Warehouse Number)</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>Doc.Categ. (Document Category)</td>
<td>PDO</td>
</tr>
<tr>
<td>Document Type</td>
<td>OUTB</td>
</tr>
<tr>
<td>Business System</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>TransPlanType (Transportation Planning Type)</td>
<td>A - External Planning in ERP or B - Obligatory Internal Planning in EWM</td>
</tr>
<tr>
<td>Release</td>
<td>Select the checkbox.</td>
</tr>
</tbody>
</table>

3. Save your entries.

Goods Receipt Process

1. In Customizing for Extended Warehouse Management, choose ➔ Goods Receipt Process ➔ Inbound Deliveries ➔ Integration with Transportation ➔ Allow EWM Execution Without Transportation Planning (Inbound) ➔.

2. Choose New Entries and enter at least the document category and the document type, for which the transportation integration should be active (as shown in the example):

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Entry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warehouse No. (Warehouse Number)</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>Doc.Categ. (Document Category)</td>
<td>PDI</td>
</tr>
<tr>
<td>Document Type</td>
<td>INB</td>
</tr>
<tr>
<td>Business System</td>
<td>Leave this field empty.</td>
</tr>
<tr>
<td>TransPlanType (Transportation Planning Type)</td>
<td>A - External Planning in ERP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Release</th>
<th>Select the checkbox.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.</td>
<td>Save your entries.</td>
</tr>
</tbody>
</table>
Implementing Business Add-Ins

You can use this procedure to find the Business Add-Ins (BAdIs) that are available for transportation integration. The implementation of the BAdIs is optional.

Procedure

1. In Customizing for Extended Warehouse Management, choose Business Add-Ins (BAdIs) for Extended Warehouse Management ➔ Cross-Process Settings ➔ Delivery Processing ➔ BAdI: Determination of Transportation Planning Type.

   You can use this BAdI to determine the transportation planning type in more detail than for the combination of a warehouse number, a document category, a document type, and a business system.


   You can use this BAdI to process your own data passed through the SHPMNT05 IDoc.

3. In Customizing for Extended Warehouse Management, choose Business Add-Ins (BAdIs) for Extended Warehouse Management ➔ Interfaces ➔ ERP Integration ➔ Inbound Messages from ERP System to EWM ➔ BAdI: Change of IDoc Control and Segment Data Before Conversion.

   You can use this BAdI to change IDoc control and IDoc segment data before an application-specific conversion takes place.

4. In Customizing for Extended Warehouse Management, choose Business Add-Ins (BAdIs) for Extended Warehouse Management ➔ Interfaces ➔ ERP Integration ➔ Inbound Messages from ERP System to EWM ➔ BAdI: IDoc Inbound Error Handling of ERP Message SHPMNT.

   You can use this BAdI to decide whether an error can be ignored and the IDoc can be stored.

5. In Customizing for Extended Warehouse Management, choose Business Add-Ins (BAdIs) for Extended Warehouse Management ➔ Interfaces ➔ ERP Integration ➔ Outbound Messages from EWM to ERP System ➔ BAdI: IDoc Outbound of ERP Message SHPMNT.

   You can use this BAdI to attach your own data to the SHPMNT05 IDoc before the import of IDoc data into SAP ERP.

6. In Customizing for Extended Warehouse Management, choose Business Add-Ins (BAdIs) for Extended Warehouse Management ➔ Interfaces ➔ ERP Integration ➔ Outbound Messages from EWM to ERP System ➔ BAdI: IDoc Outbound of ERP Message SHIPPL.

   You can use this BAdI to attach your own data to the TPSSHT01 IDoc before the import of IDoc data into SAP ERP.

SAP Library

You can use this BAdI to influence the determination rules for the staging areas and doors for both the goods receipt process and the goods issue process. The Inbound (STADET_IN) method of the BAdI interface has been enhanced with the following parameters:

- Handling Unit Type for Means of Transport (HUTYPE)
- Means of Transport (MTR)
- Carrier (CARRIER)


You can use this BAdI to define consolidation groups. The Import Structure for Determining a Distribution Group (/SCWM/S_DSTGRP_IMPORT) structure, which is used as the IS_PARAM importing parameter of the BAdI, has been enhanced with the following fields:

- Warehouse Door (DOOR)
- Internal Number of Transportation Unit (TU_NUM)

The Customizing for Determining the Consolidation Group (/SCWM/TDSTGRP) structure, which is used as the IS_TDSTGRP importing parameter of the BAdI, has been enhanced with the Access via Door (FLGDOOD) field.