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This sample chapter covers goods receipt in embedded EWM for inbound deliveries created in the SAP S/4HANA system. It discusses the basic inbound process, the configuration settings required to set up goods receipt, and the delivery document created in embedded EWM. Finally, it covers how TUs are checked in for inbound warehouse requests, unloading and goods receipt, and putaway.









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Chapter 7

Inbound Processing

Goods receipt in embedded EWM refers to movement of goods into the warehouse. Embedded EWM offers a wide array of functionalities for managing goods receipt and putaway in the warehouse, as we'll discuss in detail in this chapter.

Inbound processing is one of the key processes in warehouse management. You can receive goods in the warehouse via a purchase order if you're getting stock from a vendor, via a stock transfer order if you're receiving stock from another facility, through production receipts, or from customer returns.

The process starts with the arrival of a transportation unit (TU) or vehicle in the warehouse, unloading of goods, and carrying out a set of activities on the received goods, such as counting, quality inspection, unpacking, or deconsolidation, before goods are finally put away in the warehouse. The type of activities that need to be performed on a product before they're stocked depends on a wide array of factors, including the nature of the product, where it must be stocked, storage conditions, and so on. You also need to make sure that goods move optimally in the warehouse during putaway to ensure maximum utilization of warehouse resources and storage space. Embedded EWM offers a wide range of functionalities for goods receipt in the warehouse to handle both simple and complex inbound processes.

In this chapter, we'll cover goods receipt in embedded EWM for inbound deliveries created in the SAP S/4HANA system. We'll discuss the basic inbound process (Section 7.1), the configuration settings required to set up goods receipt (Section 7.2), and the delivery document created in embedded EWM after the inbound delivery is distributed to the system (Section 7.3). Next, we'll discuss how TUs are checked in for inbound warehouse requests (Section 7.4), unloading and goods receipt (Section 7.5), and, finally, putaway and putaway strategies for optimizing warehouse capacity and material flow (Section 7.6).

Note

The delivery created in SAP S/4HANA is now called logistics execution delivery in embedded EWM.

7.1 What Happens During Inbound Processing?

You can perform goods receipt for external procurement, production receipt, internal stock transfer, and customer returns. In this section, we'll discuss goods receipt from external procurement and production receipt, both from a business process and system process point of view.

7.1.1 Business Process

If you're receiving goods from an external vendor, the goods receipt process may vary depending on whether you're using an advanced shipping notification (ASN). Whether you require an ASN from the vendor is controlled by setting the confirmation control key at the purchase order item level. If the confirmation control key is set, then you need to create an inbound delivery to complete goods receipts in embedded EWM.

Based on the material requirements planning (MRP) run, you decide to go ahead with the creation of a planned order or purchase requisition. You can create the purchase order manually or convert the purchase requisition to form a purchase order. The purchase order is sent to the supplier, and the supplier can either physically send the goods or send an ASN to confirm when the goods will arrive in the warehouse. The receipt of an ASN creates the inbound delivery in SAP S/4HANA.

If you're working with ASNs, the inbound process in embedded EWM begins with the receipt of an ASN sent from the vendor and the creation of an inbound delivery in SAP. The SAP S/4HANA system is the leading system for creation of purchase orders and inbound deliveries. The complete process of goods receipt and putaway is then carried out in embedded EWM. You can post the goods receipt when the goods physically arrive in the warehouse.

When an ASN is created, the system checks for the plant and storage location in the ASN and validates whether the corresponding warehouse for that plant and storage location is managed by embedded EWM. If it is, then the system distributes the inbound delivery to embedded EWM and creates the inbound delivery by calling a function module enabled by a queued remote function call (qRFC). This document becomes the warehouse request in embedded EWM for goods receipt management and putaway.

Figure 7.1 summarizes how the inbound delivery document is created in embedded EWM using an ASN in SAP S/4HANA.

Note

If you have prior experience working with decentralized EWM, you'll notice that an inbound delivery notification is no longer created in SAP S/4HANA. This is one of the simplification strategies in embedded EWM.

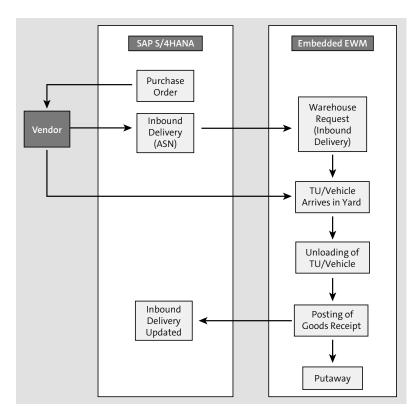


Figure 7.1 Goods Receipt Process in Embedded EWM Based on the Advanced Shipping Notice

After the inbound delivery is created, you can progress to the next steps in the inbound process, which may include the following:

- Arrival of vehicle or TU in the yard
- Unloading of TU for delivery
- Posting of goods receipt
- Putaway of products/handling units (HUs)

Note

Creation of an expected goods receipt document for goods receipt isn't required in embedded EWM. The inbound delivery gets information directly from the purchase/manufacturing order in SAP S/4HANA.

The inbound process in embedded EWM also can be used to receive finished goods in the warehouse. Depending on settings in SAP S/4HANA, you can trigger goods receipt posting directly from SAP S/4HANA or from embedded EWM. We'll discuss these settings in detail in Chapter 13, Section 13.6.

You can trigger goods receipt posting directly from SAP S/4HANA by using the inbound delivery created in SAP S/4HANA as soon as you've executed the last step in the production or process order. The inbound delivery is created in embedded EWM only if the receiving plant and storage location are managed by embedded EWM. The finished products are moved into the warehouse from the assembly line, and goods receipt is posted in embedded EWM. The same is also updated in the inbound delivery in SAP S/4HANA. You then create warehouse tasks for putaway and complete the putaway in embedded EWM.

To continue our running example, American company Alpha Medicals sends an order to one of its vendors based in Mexico. The order sent by Alpha Medicals contains various pharmaceutical products that are to be delivered to them in a timely manner. An Alpha purchase representative enters the order in SAP S/4HANA and, based on material requirements, creates an inbound delivery in SAP S/4HANA that contains the products to be supplied as part of a single delivery.

As shown in Figure 7.2, after the inbound delivery is saved in SAP S/4HANA, it flows through to embedded EWM and is saved as an inbound delivery order. After the goods are received in the goods receipt area of the warehouse, goods receipt is posted in the staging area of the warehouse. Goods may also be flagged for quality inspection if quality management is activated for the product. After the checks and any ongoing packaging requirements, the goods are put away by the warehouse worker in the final putaway area based on the destination bin that the embedded EWM system proposes. The warehouse workers usually get putaway warehouse tasks on their Process Warehouse Tasks – Putaway app or the radio frequency (RF) device they use to work in the warehouse.

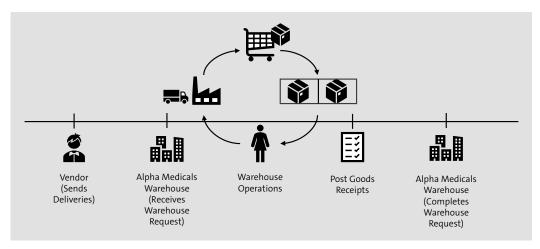


Figure 7.2 Business Flow for Inbound Processing

7.1.2 System Process

The following explains the basic system flow, including the documents and the data required to execute putaway of stock from the inbound door to the destination bin in embedded EWM and decentralized EWM. Briefly, each step in the inbound process is as follows:

- 1. The inbound process starts with the creation of an inbound delivery in SAP S/4HANA. The inbound delivery can be created from various business processes:
 - Purchase: A purchase order is created in SAP S/4HANA that requires putaway of goods from an embedded EWM-managed warehouse.
 - Customer returns: A customer returns order can be created in SAP S/4HANA that requires putaway of goods to an embedded EWM-managed plant for the goods returning from the customer location.
 - Production staging: A manufacturing order is created for receiving finished materials for production in the production staging area. These goods are put away to a destination bin based on the product putaway characteristics.
- 2. An inbound delivery is created in SAP S/4HANA for putaway to the embedded EWM warehouse. The inbound delivery can be created for any of the scenarios described in the previous step. The inbound delivery contains all the relevant data required for stock putaway: product, quantity, batch, and so on.
- 3. The inbound delivery is replicated to embedded EWM, and an inbound delivery is created in embedded EWM. This document serves as the requirements document in embedded EWM and is called the warehouse request. Further processing in embedded EWM such as staging, packing, and putaway is done based on the inbound delivery via creation of warehouse tasks.
- 4. After the warehouse worker finishes the stock putaway, and all associated warehouse tasks are confirmed, the embedded EWM system posts the goods receipt. The goods receipt is also updated in the inbound delivery in SAP S/4HANA.
- 5. The use of a TU is optional in embedded EWM. However, organizations can activate shipping and receiving functions in embedded EWM and make use of TU and vehicle activities to execute carrying of goods in the warehouse and unloading them. The stock is moved to a staging area after a TU docks to the door and then is unloaded from a TU. Goods receipt can be posted after putaway is complete, which results in posting of goods receipt in the outbound delivery in SAP S/4HANA.

Storage control is used in a complex putaway process, in which a product must move through various process steps based on warehouse processes or the physical layout of the warehouse before it's moved to the destination storage bin. As you've read about in previous chapters, there are two types of storage control in embedded EWM: process-oriented storage control and layout-oriented storage control.

As discussed in Chapter 6, Section 6.5.4, process-oriented storage control is used for executing process steps based on warehouse processes. Some of the warehouse processes include quality inspection, value-added services (VAS), deconsolidation, and kitting. Layout-oriented storage control is used to execute warehouse processes based on the warehouse layout. For example, a product might need to be moved to the first floor in the warehouse to reach the final putaway bin via an elevator. In this case, the putaway storage process will have two process steps. The first step will move the product from the staging area to the elevator, and the second process step will move the product from the elevator to the door. The purpose of this storage control is to have stock visibility at all times in the warehouse. If a product must undergo both process-oriented and layout-oriented storage control, embedded EWM gives preference to process-oriented storage control.

Figure 7.3 shows complex movement in the inbound process using only processoriented storage control.

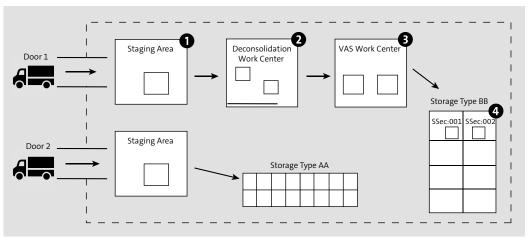


Figure 7.3 Storage Control in Inbound Processing

The primary steps involved in complex putaway are as follows, but note that they can include further steps (counting, quality inspection, etc.):

Unloading

After the truck docks at the warehouse door, it's unloaded using an HU warehouse task.

2 Deconsolidation

The pallets are taken to a deconsolidation work center where they're broken down to move individual products to their destination.

Value additions

Based on relevance for VAS, embedded EWM creates an HU warehouse task to move

the product to a VAS work center. VAS activities performed at the VAS work center include painting, oiling, packaging, and so on.

4 Putaway

A final putaway HU warehouse task is now created or activated to move the product from the VAS work center to the destination storage bins. You can confirm the warehouse task from SAP GUI or by using an RF device.

7.2 Configuring Inbound Delivery Processing

In this section, we'll discuss system configurations required for inbound delivery processing in embedded EWM. We'll cover document and item type determination in embedded EWM for creation of the inbound delivery, as well as availability groups, which are used for stock type determination in embedded EWM.

7.2.1 Document Category and Document Types

Document categories denote the different documents that can be processed by the embedded EWM system. These are predefined in the system and can't be changed.

A document type is used to classify a document based on a specific business process. You can create your own document types in embedded EWM based on different types of inbound processes. Table 7.1 shows two of the document category and document type combinations possible in embedded EWM.

Document Category	Document Type	Document Type Description
PDI	INB	Inbound delivery
PDI	INBI	Inbound delivery, production

Table 7.1 Document Category and Document Types for Inbound Processing

Together, the document category and document type uniquely define the delivery document header in embedded EWM and uniquely define a business process. To define document types, use IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Inbound Delivery • Define Document Types for Inbound Delivery Process, click on New Entries, and enter the document type code, description, and control parameters. A document type is used to define several key settings, including settings specific to the purpose for which it's being set up, such as document types, profiles, packing, and process controlling. Some of the key settings defined here are as follows:

- Internal number range for a document type
- Retention period in the system before the document is archived

- Profiles assignments such as action profile, status profile, text profile, and so on
- Indicator for automatic packing during inbound delivery creation
- Setting document relevance for warehousing processes such as production, scrapping, and so on

7.2.2 Item Category and Item Types

Item categories are used to group items based on their use for packing, returns, and so on. Item category codes are predefined in SAP and can't be changed. Item types define the business characteristics of an item in a delivery document. Table 7.2 shows two of the document category and document type combinations possible in embedded EWM.

Item Category	Item Type	Item Type Description
DLV	IDLV	Standard item, inbound delivery
DLV	IDPP	Inbound delivery standard item goods receipt production

Table 7.2 Item Category and Item Types in Embedded EWM

You can create item types via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Inbound Delivery • Define Item Types for Inbound Delivery Process. Click on New Entries, and enter the item type code, description, and control parameters. Item types hold some key settings relevant to profiles and process management and control:

- Profile assignments such as status profile, incompletion profile, and process profile (note that action profiles aren't defined here, but at the document type level)
- Manual creation of line items in delivery
- Permission to allow invoice before goods issue
- Flagging an item as relevant for document-related serialization, documentary batches, and so on

7.2.3 Mapping the Inbound Delivery

The deliveries created in SAP S/4HANA are distributed to embedded EWM and create deliveries in embedded EWM that are called *warehouse requests* and become the principle documents for carrying out embedded EWM-specific business processes such as creation of putaway warehouse tasks. It's important to map the delivery document type from SAP S/4HANA with the corresponding document type of the warehouse request, as shown in Figure 7.4. This helps the system know which embedded EWM document type to create based on the document type in the SAP S/4HANA system.

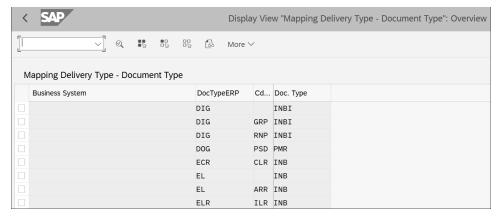


Figure 7.4 Mapping Delivery Type to Document Type

Document type mapping is done in embedded EWM from IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Interfaces • ERP Integration • Delivery Processing • Map Document Types from ERP system to EWM. Click on New Entries, and enter the document type in embedded EWM for a combination of document types in SAP S/4HANA and the business system.

The **Business System** is the business system of the source SAP S/4HANA system. You can map multiple document types in SAP S/4HANA to multiple item types in embedded EWM based on the settings in the **Cde Init.Com** (code for initiator of a communication chain) field (shown in Figure 7.4).

This field is used to segregate business processes based on discrete attributes such as splitting up goods receipt from production into two subprocesses for discrete manufacturing and repetitive manufacturing. This allows you to have more control over carrying out business processes in embedded EWM. Similarly, you can map multiple document types in SAP S/4HANA to one document type in embedded EWM.

Next, map item types for deliveries in SAP S/4HANA with the item types in warehouse requests in embedded EWM, as shown in Figure 7.5. To do so, navigate to IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Interfaces • ERP Integration • Delivery Processing • Map Item Types from ERP System to EWM. Click on New Entries, and map the embedded EWM item type with a combination of the SAP S/4HANA business system, document type, and item type in SAP S/4HANA, and the embedded EWM item type.

You can map one document type in SAP S/4HANA to multiple item types in embedded EWM based on differentiation attributes. This allows you to have more control over carrying out business processes in embedded EWM. For this, you need to map the profile for the differentiation attribute used to the SAP S/4HANA document type via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Interfaces • ERP Integration • Delivery Processing • Define ERP Document Types for

Differentiation Attributes. Click on **New Entries**, and enter a combination of SAP S/4HANA business system, document type, and profile. Similarly, you can map multiple document types in SAP S/4HANA to one document type in embedded EWM.

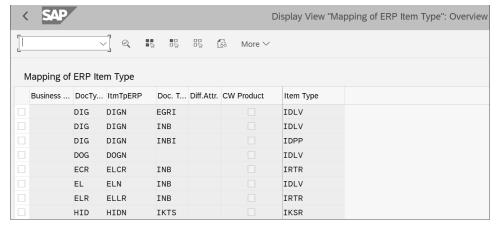


Figure 7.5 Mapping of Item Types in SAP S/4HANA with Item Types in Embedded EWM

7.2.4 Stock Type Determination in Inbound Delivery

SAP S/4HANA tracks stock based on plant, storage location, and stock category. The stock type in embedded EWM is traced using the concept of *availability groups*. An availability group is used to control which stock is available for a storage type.

You can set up availability groups in embedded EWM from IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Configure Availability Group for Putaway. The following settings are made here:

■ Define availability group

In this step, define the availability group for use in your warehouse. In standard embedded EWM, you use two main availability groups: OO1 for goods in putaway and OO2 for goods available for sale (see Figure 7.6). You can create more availability groups per your business requirements.



Figure 7.6 Defining Availability Groups

■ Define non-location-specific stock type

In this step, define the non-location-specific stock type for the warehouse. These are stock types that group stock based on their attributes and are independent of stock location in the warehouse. SAP has provided some non-location-specific stock types by default, as shown in Figure 7.7, but you can create more per your business requirements, for example, for quarantined stock.

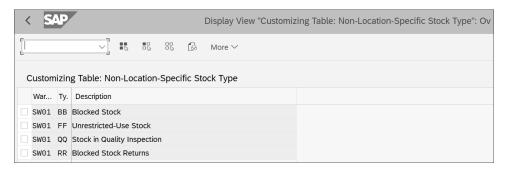


Figure 7.7 Defining Non-Location-Specific Stock Types

■ Configure stock type

In this activity, map the availability group and non-location-specific stock type with the stock type in embedded EWM for a specific warehouse, as shown in Figure 7.8.

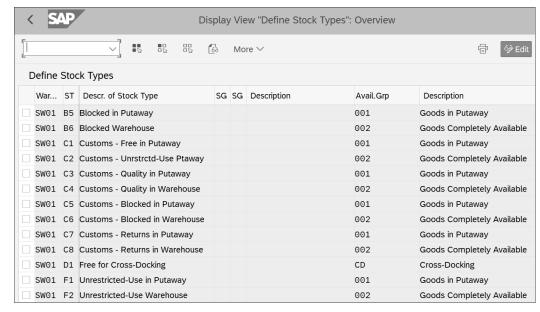


Figure 7.8 Mapping the Embedded EWM Stock Type

The availability group described is also assigned to the plant and storage location of the embedded EWM warehouse in SAP S/4HANA, as shown in Figure 7.9. This is done via

IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Interfaces • ERP Integration • Goods Movement • Map Storage Locations from ERP System to EWM. Click on New Entries; enter a combination of embedded EWM warehouse, embedded EWM stock type, availability group, location-independent stock type, and stock type role; and click on Save. In this way, the stock type in embedded EWM is tracked using a combination of plant and storage location (using the availability group) and non-location-specific stock type (e.g., unrestricted stock, blocked stock, etc.).

Based on the availability group, you can set up different stock types for the inbound and outbound processes. For example, in Figure 7.9, we mapped availability group OO1 (linked to storage location ROD, which marks the location for stock received on the docks) to embedded EWM stock type F1, and we mapped availability group OO2 (linked to storage location AFS for storing goods available for sale) to embedded EWM stock type F2.



Figure 7.9 Mapping Storage Locations from SAP S/4HANA to Embedded EWM

When an inbound delivery is created in embedded EWM, the system checks the plant and storage location for the delivery in SAP S/4HANA and determines the availability group for that plant and storage location combination. Next, it determines the embedded EWM stock type by looking at the mapping of the availability group and non-location-specific stock type based on the stock category for the delivery in SAP S/4HANA and determines the embedded EWM stock type. This stock type is populated in the inbound delivery created in embedded EWM, as shown in Figure 7.10.

You can also assign an availability group to storage types in storage type settings, as shown in Figure 7.11.

If the availability group of stock being put away into a storage bin for the storage type is different from the availability group set in the storage type, then the system does a posting change for the stock. For example, if stock in the delivery with stock type F1, as shown in Figure 7.11, is put away in a storage type with availability group OO2, then based on the settings discussed previously—availability group OO2 mapped to stock type F2—the system will perform a posting change on stock being put away and change it to type F2, which is unrestricted stock available for sale.

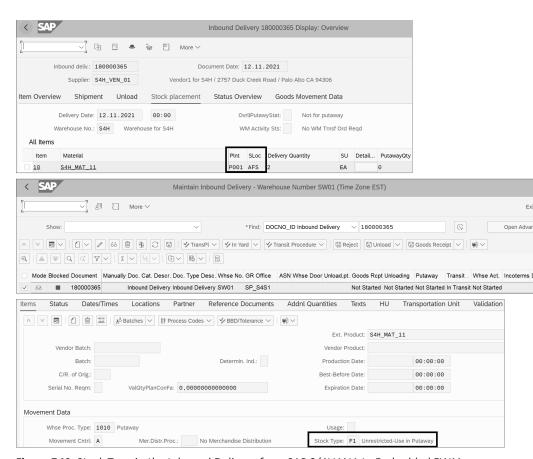


Figure 7.10 Stock Type in the Inbound Delivery from SAP S/4HANA to Embedded EWM



Figure 7.11 Assigning the Availability Group to the Storage Type

Note

We discussed in Chapter 6, Section 6.3.2, that an availability group is also set at the warehouse process type level. The system always gives preference to the availability group set at the storage type level; if it doesn't find one, it looks for an availability group set at the process type level. If no availability group is set at either of these levels, then the embedded EWM stock type remains unchanged.

7.2.5 Stock Type Enhancement

You can define the stock type description at the warehouse level so that plant/storage location descriptions can be saved in a warehouse-dependent manner via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Configure Availability Group for Putaway • Configure Stock Type.

Note

Prior to SAP S/4HANA 1809, the description of the stock types could only be defined in a warehouse-independent manner. Using this text description of the stock type, you can mention the plant and storage location when referring to a stock type, which helps users easily identify the plant and stock type combination linked to a stock type. You can, for example, describe stock type F1 for the SW01 sample warehouse as "Unrestricted stock in PL04/AFS."

This feature allows you to display a description for warehouse stock types and availability groups, which makes mapping plants, storage locations, stock types, and availability groups transparent.

7.3 Inbound Delivery

The inbound delivery document is created in embedded EWM after the inbound delivery or a returns delivery in SAP S/4HANA is successfully distributed to embedded EWM. The inbound delivery also can be created directly in embedded EWM while carrying out goods receipt from production. This document contains all the data required for carrying out goods receipt and putaway in embedded EWM. The TU or vehicle is registered in the yard based on the delivery it's carrying. The warehouse tasks for unloading and putaway are created for warehouse requests. You can adjust the quantity in the inbound delivery in embedded EWM based on the goods receipt quantity, and the same is updated in the delivery in SAP S/4HANA. If the settings for the item type permit, you can also create new items in the delivery. The inbound delivery in embedded EWM has two levels: document header and document item.

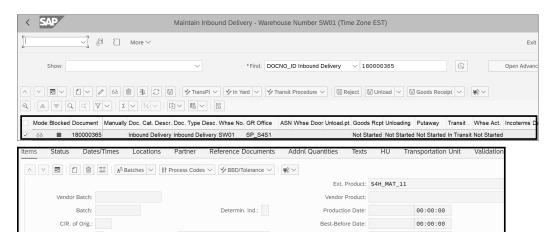
The document header is defined by the document category and document type, and it contains important data such as the following:

- Goods receiving office
- ASN number
- Processing statuses
- Transportation details

The document item is defined by the item category and item type, and it holds itemspecific data for items in the inbound delivery, such as the following:

- Warehouse process type
- Item-level status
- Product-specific data, such as product number, batch, and so on
- Line item quantity

Figure 7.12 shows an inbound delivery in embedded EWM with the document header and **Item** section highlighted.



Stock Type: F1 Un

Figure 7.12 Inbound Delivery Header and Item Section in Display Mode

Note

The following SAP Fiori apps are available to create and process inbound deliveries:

■ Create Inbound Deliveries

Whse Proc. Type: 1010 Putaway

This app allows you to create inbound deliveries for purchase orders that are then used for stock putaway in the warehouse.

■ Change Inbound Deliveries

This app allows you to change inbound deliveries created for purchase orders that are then used for stock putaway in the warehouse.

■ Maintain Inbound Deliveries

This app allows you to change the inbound delivery warehouse request in embedded EWM/decentralized EWM warehouses.

7 Inbound Processing 7.4 Check-In

7.4 Check-In

The next step after creation of an inbound delivery in embedded EWM is physical receipt of goods in the warehouse. Goods arrive in the warehouse in vehicles or TUs. Use yard management in embedded EWM to manage vehicles coming into the yard (as discussed in detail in Chapter 18).

The *yard* is the space outside the warehouse used for managing incoming and outgoing vehicles. It's typically made up of checkpoints, parking, and doors. The first step in managing inbound vehicles is to acknowledge their entry past the entry checkpoint and into the warehouse premises. This is done by the shipping office, which validates the deliveries in the TU and relevant paperwork, such as the delivery note.

This process is called *check-in* in embedded EWM and is done via Transaction /SCWM/ CICO, which also can be accessed from SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Shipping and Receiving • Yard Management • Arrival at/Departure from Checkpoint, as shown in Figure 7.13. Enter the TU search criteria, and search for the TU. Select the TU, click on Arrive + Save (from the menu at the top, follow path Action • Checkpoint • Arrive+Save), and then click Save to set the TU as checked-in at the warehouse.

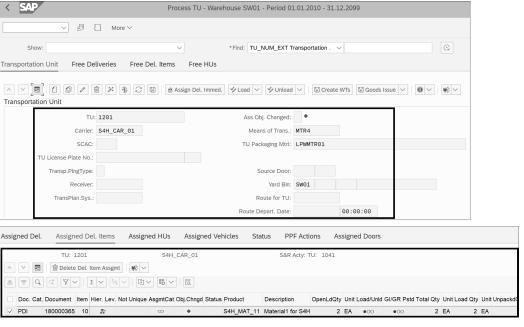


Figure 7.13 Transportation Unit Containing the Inbound Delivery

Note

Yard management is available as a component of shipping and receiving in advanced warehouse management in embedded EWM. Using yard management in the inbound process in embedded EWM is optional.

If a vendor has already sent an ASN, then the inbound delivery will already exist in the warehouse. If there is no ASN, then you can create the inbound delivery in embedded EWM directly by getting the required information from the purchase order or manufacturing order. This delivery in embedded EWM creates the inbound delivery in SAP S/4HANA.

You can assign the delivery to a TU using Transaction /SCWM/TU. Click on the Assign. Del. Immed. button, and select the delivery to be assigned. The TU can then be assigned to a vehicle using Transaction /SCWM/VEH by selecting the vehicle and clicking on the TU Assignment button on the transaction screen. You can't assign a delivery directly to a vehicle. The vehicle information—license plate number, driver, carrier, and so on—is updated for the vehicle/TU. After the TU is checked in, the status of the TU is updated to Arrived at Checkpoint.

If there is no empty warehouse door available, then the vehicle is moved to a parking lot, where it waits for one of the doors to become available. After a door becomes available, the TU is moved to a warehouse door, where the unloading process begins. Do this via Transaction /SCWM/YMOVE, which also can be accessed from SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Shipping and Receiving • Yard Management • Create Warehouse Task in Yard. Click on the Create + Save for TUs button. This creates a warehouse task to move an HU with the name of the TU. The warehouse task has the source bin as the current location of the HU for the TU. The destination bin for the warehouse door can be determined using process-oriented storage control or can be entered manually. (We'll discuss yard management further in Chapter 18.)

Note

Advanced/extended warehouse management in embedded EWM in SAP S/4HANA offers the added advantage of inbound process optimization. In this way, you can group multiple deliveries in a single TU or vehicle and complete the inbound process for those deliveries together.

7.5 Unloading and Goods Receipt Process

Unloading and goods receipt begin after the inbound delivery has been verified at the checkpoint and the TU/vehicle is docked at the door. You can verify the inbound delivery using Transaction /SCWM/PRDI, which can also be accessed from SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Delivery Processing • Inbound Delivery • Maintain Inbound Delivery.

You can review the TU to which the delivery is assigned by navigating to the Transportation tab in the Delivery Item section. The inbound deliveries can be viewed in the warehouse monitor using Transaction /SCWM/MON, which can be accessed from SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Monitoring • Warehouse Management Monitor. In the navigation tree, navigate to Inbound • Documents • Inbound Delivery; in the search criteria, provide details for the inbound delivery. You'll see results like those shown in Figure 7.14.

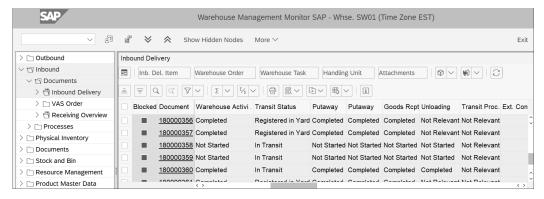


Figure 7.14 Inbound Delivery in the Warehouse Monitor

The goods are unloaded from the TU/vehicle and moved to a staging area for goods receipt. In the following sections, we'll cover the unloading and goods receipt processes in detail.

7.5.1 Unloading

Unloading is the process of moving goods from the TU/vehicle and bringing them to the staging area assigned to a door in the warehouse. The SAP transaction for unloading is Transaction /SCWM/UNLOAD, which can also be accessed from SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Delivery Processing • Inbound Delivery • Unload. The delivery to be unloaded can be searched for and unloaded using the Unload button.

Embedded EWM supports two types of unloading: *simple unloading* and *complex unloading*. Simple unloading is used to update the unload status of the delivery in the

TU manually without creating an unloading warehouse task. If goods receipt is performed directly in the staging area, then unloading isn't required or can be done using simple unloading. You can do simple unloading by selecting the **Unload** button, as shown in Figure 7.15. You can also perform unloading directly for the inbound delivery using Transaction /SCWM/PRDI or for the TU using Transaction /SCWM/TU. After unloading is complete, the unloading status of HUs and the status of delivery items are updated to **Unloading Complete**.

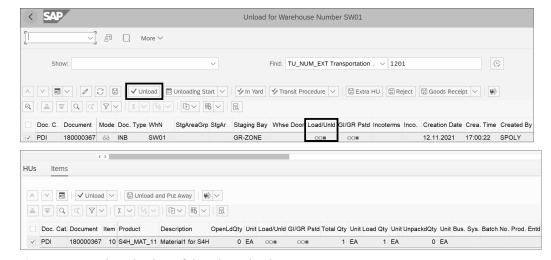


Figure 7.15 Simple Unloading of the Inbound Delivery

Complex unloading, on the other hand, requires creation and confirmation of warehouse tasks to complete the unloading process. Complex unloading is used when the receipt of delivery items is posted to the TU or the door bin and can be done with or without process-oriented storage control. The destination bin for the unloading warehouse tasks is the staging bay for inbound deliveries. The unloaded warehouse tasks can be confirmed either from SAP GUI or from the RF interface.

While executing unloading of inbound delivery without a storage process, the warehouse task created for the process type in the inbound delivery line item performs both unloading and putaway upon task confirmation. You can change the destination bin in the warehouse task manually and unload the HU to the staging bin of the delivery item. For unloading with process-oriented storage control, the unloading warehouse task is created from the goods receipt location to the staging area of the inbound delivery. The unloading warehouse tasks can be grouped together into warehouse orders by using the Load/Unload creation category in the warehouse order creation rule.

You can maintain a staging area and door determination for the inbound process via Transaction /SCWM/STADET_IN or via SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Settings • Shipping and Receiving • Staging Area and Door Determination (Inbound). Click on New Entries,

and enter a combination of warehouse process type and staging area door determination group.

Note

The Unload Transportation Units app allows you to unload an inbound delivery from a TU onto the warehouse staging area using either simple or complex unloading.

7.5.2 Packing Proposal in Inbound Delivery

Using the packing process, you can pack the deliveries sent over by a vendor when the inbound deliveries don't contain any packing information about HUs. Using the condition technique, you can set the system to pack the deliveries automatically; however, if the deliveries require packing in the work center, a packaging material proposal can be set up to display a choice of packaging materials for use in packing the inbound delivery items.

To enable proposal of packaging items during packing, you should ensure that the packaging specification is created for the delivery items and that the condition records are set up for the relevant condition type, as shown in Figure 7.16.

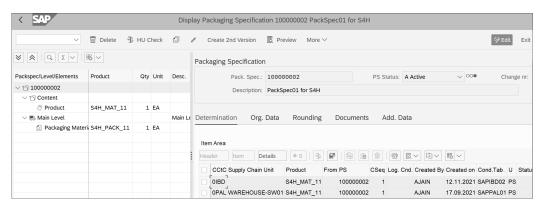


Figure 7.16 Packaging Specification for Packing Proposal

As shown in Figure 7.17, the condition type that must be used for the packing proposal (PackMatPropProc) should be assigned to the inbound delivery item, and automatic packing of the inbound delivery item should be switched off by selecting the No Automatic Packing checkbox. This enables users to select the packaging material in the packaging center.

As shown in Figure 7.18, once inbound delivery is successfully replicated in embedded EWM, an unpacked inbound delivery item can be packed. You can start the packing process by choosing **Inbound Delivery** • **Follow-On Functions** • **Pack** from the delivery menu.

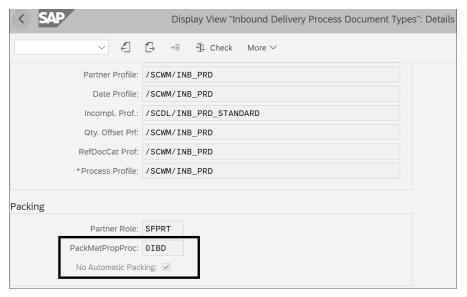


Figure 7.17 Setting for Packing Proposal in Inbound Document Type

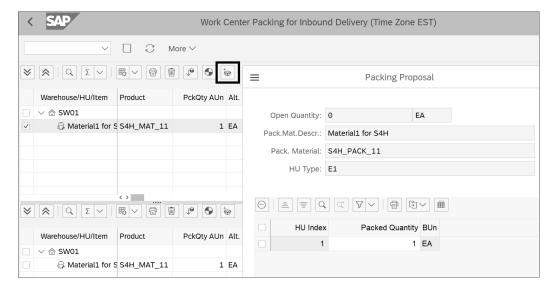


Figure 7.18 Packing Proposal in the Pack Center

Tip

You can also use the Ctrl+F3 shortcut to invoke the packing process of the inbound delivery to use the packing functionality in the foreground.

In the packing window, you can start the packing process by clicking on \odot ; this will pick a default packaging material and pack the products of the inbound delivery based on the packaging specification. Alternatively, if you want to view a set of packaging materials, which could be used for packing the inbound delivery items, you can click on \odot , as shown in Figure 7.18. This action will open a new window displaying the packaging material that can be used for packing the inbound delivery item. It also allows you to change the quantity to pack in a single HU, which you'll create after completing the packing process.

After the packing process is completed, HUs with internal number ranges will be created for full or partial quantity of the inbound delivery item and will be used for the putaway process in the destination bin in the warehouse.

7.5.3 Quantity Adjustment in Inbound Processing

After unloading is complete, a warehouse user will perform a visual inspection of the unloaded goods. If any discrepancy is noted, such as a difference in unloaded quantity versus the quantity in the inbound delivery, then the quantity in the inbound delivery is updated to reflect actual goods received in the warehouse. This is done using process codes, as shown in Figure 7.19.

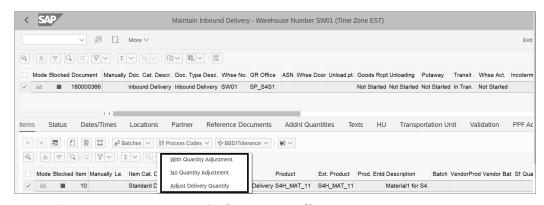


Figure 7.19 Using Process Codes for Quantity Difference

If the delivery quantity is changed manually, the system determines the default process code based on settings that can be viewed in the **Process Codes** tab in the inbound delivery at the item level in embedded EWM. If there is a difference between the quantity in the inbound delivery and the quantity for which warehouse tasks have been created, then you can select the **Adjust Delivery Quantity** option, as shown in Figure 7.19. This automatically updates the delivery quantity to the quantity specified in the warehouse tasks.

Some of the process codes available in embedded EWM to manage quantity adjustments for deliveries are as follows:

■ 1001 Delivery Difference, Adjust Document

In this case, the delivery quantity is adjusted in embedded EWM, and the process code is saved in the delivery, but the transferred delivery quantity isn't adjusted in SAP S/4HANA.

■ 1002 Delivery Difference, Adjust Document + Quantity

In this case, embedded EWM updates both the delivery quantity in embedded EWM and the transferred delivery quantity. This results in a delivery split, wherein the adjusted quantity remains in the original delivery and the remaining quantity is moved to a new delivery in embedded EWM.

■ 1003 Delivery Difference, No Adjustment

No change is made to the delivery quantity. The process code is updated in the delivery for documentation purposes.

■ 1004 Reject Inbound Delivery

This process code is used to set the quantity in the inbound delivery to 0. For example, if an inbound delivery is created for 10 pieces, you can reject the inbound delivery by setting a quantity of 10-, which will set the total quantity in the warehouse request to 0.

Note

Process codes should be applied before goods receipt is completed in embedded EWM.

7.5.4 Goods Receipt Process

After unloading is complete, you can post goods receipt for the inbound delivery in embedded EWM. You can perform complete and partial goods receipt in embedded EWM using inbound delivery or warehouse tasks, as follows:

■ Complete goods receipt using inbound delivery or warehouse tasks

Complete goods receipt using inbound delivery can be done from Transaction /SCWM/GR. You can search for and select the inbound delivery by entering search criteria such as TU, inbound delivery, door, SAP S/4HANA document, and so on. To execute goods receipt, click on the **GR** button, or enter Transaction /SCWM/PRDI, and click on the **Goods Receipt Process** button. If you need to perform goods receipt after putaway, you can wait for the system to set the goods receipt to **Complete** automatically after all putaway warehouse tasks are confirmed. This will also update the goods receipt status for the inbound delivery in SAP S/4HANA.

■ Partial goods receipt using warehouse tasks

If an inbound delivery has more than one putaway warehouse task, the status of the goods receipt in the inbound delivery remains set to **Partially Complete** until all tasks are confirmed. The system updates the goods receipt status in the inbound delivery in SAP S/4HANA using the Post Processing Framework (PPF).

Goods receipt reversal using returns delivery

Goods often need to be returned to the vendor or other warehouses after they've physically arrived in the warehouse and have been put away. To perform stock returns using deliveries, the following actions need to be performed:

- The inbound delivery for which the putaway is completed and goods receipt status is set as Complete is searched for and selected using Transaction /SCWM/PRDI.
- Follow the Inbound Delivery Follow-on Function Return to Vendor path in the menu of the selected inbound delivery. This takes you to the SAP S/4HANA core in the Transaction VL60 screen.
- On the Returns Delivery screen, select Quantity Differences Return Quantities, enter the quantity to be returned to the vendor from the warehouse, and save.
 This creates a return delivery in SAP S/4HANA and distributes it to embedded EWM, creating an outbound delivery order.
- Stock to be returned to the vendor is then picked based on the outbound delivery order, issued out of the warehouse, and then sent to the original vendor as part of the return process.

Note

The following SAP Fiori apps are available to perform goods receipt in embedded EWM warehouses:

■ Display Workload

This app allows you to search for inbound deliveries for putaway based on various filtering criteria such as overdue purchase orders or a subset of timelines (e.g., a few days, hours, etc.).

■ Process Goods Receipt Process

This app allows you to display, edit, change, batch, scan, pack, and edit TUs, as well as perform goods receipt for inbound deliveries selected based on search criteria such as purchase orders, vendors, and so on.

7.5.5 Automatic Packing Item Generation in Inbound Delivery

Companies often deal in returnable packaging both in inbound and outbound processes of product handling in their warehouses. Therefore, such packaging material's quantity and valuation must be managed to track and return it to vendors when using inbound product handling.

Using this feature, embedded EWM can automatically generate packaging items for inbound deliveries when goods receipt for the delivery is posted. The goods receipt can be posted either before putaway of the product or after putaway confirmation of the delivery items. The number of line items of the packaging material and its quantity

depends on the number of HUs created for delivery items and the distinct packaging and auxiliary packaging material used in packing process.

As shown in Figure 7.20, you can set up the automatic item generation at the delivery item level via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Inbound Delivery • Automatically Generate Packaging Items for Inbound Deliveries.

You must flag the inbound delivery item relevant for delivery item addition (**DIv. Item creation** checkbox) and flag whether it's to be done during implicit goods receipt (**Implicit GR** checkbox). As part of this setup, you should assign the packaging material types (in the **Relevance for Pakmaterials** node under the **Pkging Ty.** column) that can be used for adding the packaging line items in the inbound delivery. Finally, you must enter the details of the packaging item type and stock type, against the delivery item type that will be added in the inbound delivery at successful goods receipt in embedded EWM in the **Determination of Delivery Item Type** node.

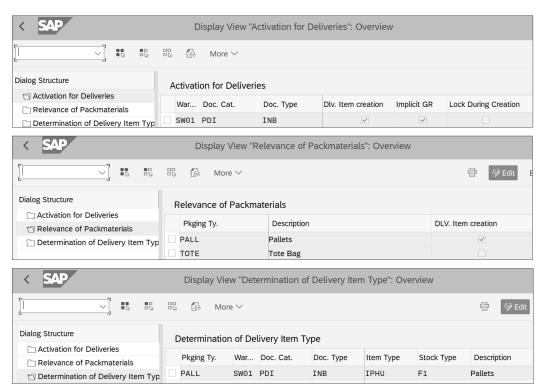


Figure 7.20 Settings for Packing Item Generation in Inbound Delivery

As a next important step for setting up the automatic insertion of the packaging item in the inbound delivery, you must maintain the packaging specification with the

7.5 Unloading and Goods Receipt Process

required condition types so that the embedded EWM system is able to pick up the packaging material for HU creation in embedded EWM system, as shown in Figure 7.21.

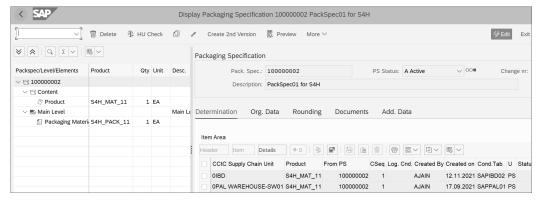


Figure 7.21 Packing Specification and Conditions for Packing Item Generation in Inbound Delivery

It's important to ensure that the item so inserted in the inbound delivery has a goods movement bin assigned to it. You do this via SAP Easy Access path Logistics • SCM Extended Warehouse Management • Settings • Maintain Goods Movement Bin Determination, as shown in Figure 7.22.

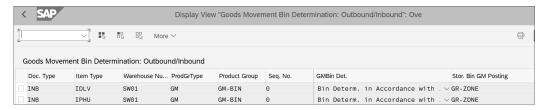


Figure 7.22 Goods Movement for Packing Item in Inbound Delivery

As shown in Figure 7.23, once the product items are packed in a HU using an appropriate packaging material and goods receipt is posted for the inbound delivery after putaway, the packaging item will be added automatically in the inbound delivery. The item that will be added in the inbound delivery is shown with an **X** marked in the **Manually** column to clearly show that the item is added separately to the base delivery in embedded EWM.

Once the goods receipt is posted for the inbound delivery in embedded EWM, and the packaging item is inserted in the inbound delivery, the goods movement data is interfaced to logistics execution delivery. As shown in Figure 7.24, the goods movement interface not only posts the goods receipt in the inbound delivery but also updates the logistics execution delivery with this new packaging item.

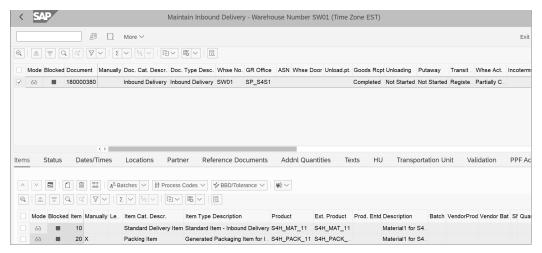


Figure 7.23 Packing Item Addition in Inbound Delivery at the Goods Receipt Process in Embedded EWM

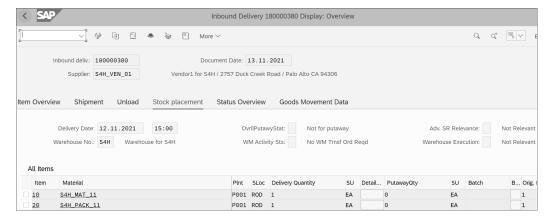


Figure 7.24 Packing Item Addition in Inbound Delivery at the Goods Receipt Process in Logistics Execution

7.5.6 Additional Features for Handling Unit Receipt

One of the ways to perform goods receipt is to receive the HUs using RF, which you can use in a suitable RF device. With the new versions of SAP S/4HANA, you can change and assign serial numbers, and you can perform mass operations for multiple HUs when receiving HUs via RF device.

You can perform the goods receipt process using the RF device by choosing **Inbound Process • Receiving of Handling Units** and then choosing an option for goods receipt of HUs such as receive HU by Delivery, Shipment, TU, and so on. Next, you can choose from the following:

- Scan an existing HU in the system, and press F3 to change the product's serial numbers, if the packed product is serialized.
- Scan HUs that don't exist in the system by manually assigning serial numbers to serial-number-managed products, as shown in Figure 7.25.
- Execute mass operations for multiple HUs, such as create or unload multiple HUs at a time.

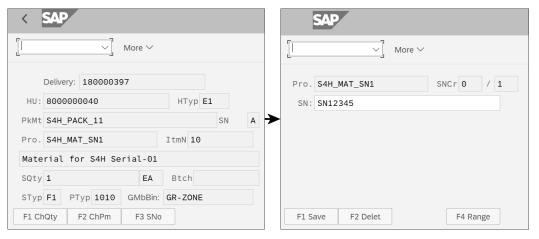


Figure 7.25 Adding a Serial Number to a Handling Unit during the Goods Receipt Process

7.6 Putaway

After unloading is complete, the next step in processing the inbound delivery in embedded EWM is putaway. This means moving products from the staging area to final putaway storage bins in the warehouse. However, putaway in embedded EWM isn't always direct putaway into destination bins. Usually, a product moves through one or more intermediate steps, such as labeling, deconsolidation, or quality inspection, before it becomes ready for final putaway. In such cases, the product moves through several intermediate bins before it reaches the destination storage bin. This is called *complex putaway*, as opposed to *simple putaway*, in which products received in the staging area in the warehouse are directly moved to the final bin.

In the following sections, we'll cover various processes involved in putaway in the warehouse. We'll also discuss putaway strategies in embedded EWM that are used for determination of the final storage bin in the warehouse.

7.6.1 Deconsolidation

Deconsolidation is the process of breaking an HU into multiple HUs based on products that belong to different consolidation groups. Consolidation groups are used to group

products based on similar attributes. Deconsolidation allows you to perform distributed putaway in embedded EWM. For example, when the goods receipt process is started in the inbound delivery, the system checks the destination activity area and consolidation groups of the products contained within the HU. If it finds that an HU has products that belong to different consolidation groups, it sets the original putaway task to **Inactive** and creates a new warehouse task to move the HU to the deconsolidation work center. In the outbound process, you create consolidation groups for products with the same shipping requirements, such as route, ship-to party, and so on.

During the putaway process, embedded EWM determines an HU as relevant for deconsolidation if it meets one of the following criteria:

- The activity areas for the products within an HU are different.
- The activity areas for the products within an HU are the same, but the consolidation groups are different.
- The activity areas and consolidation groups for the products within an HU are the same, but the maximum number of warehouse tasks for the HU has been exceeded.

The following configuration settings are required for setting up deconsolidation in embedded EWM:

Assign number range interval

Assign the number range interval created for consolidation groups to the warehouse via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Deconsolidation • Assign Number Range Interval to Consolidation Groups, as shown in Figure 7.26. Click on New Entries, and add a combination of embedded EWM warehouse, number range type, and number range interval.

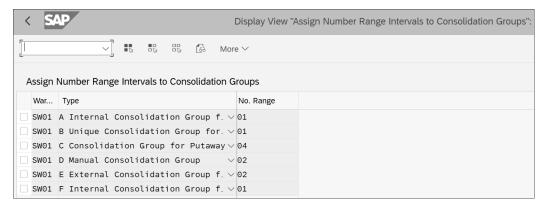


Figure 7.26 Assigning the Number Range Interval to the Consolidation Group

Define deconsolidation attributes

If you want to use deconsolidation in process-oriented storage control, you also need to define deconsolidation attributes for each activity area. The attributes are

7.6 Putaway

required in the process step for deconsolidation in embedded EWM. The value in the MaxP field is used to define the maximum number of warehouse tasks in the putaway HU, and the value in the MaxD field is used to define the maximum number of warehouse tasks in the deconsolidation HU (Figure 7.27). If the actual number of warehouse tasks exceeds the maximum number of permitted warehouse tasks, then the HU is moved to the deconsolidation work center.

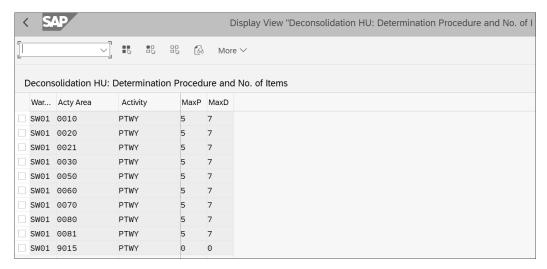


Figure 7.27 Assigning Attributes to the Activity Area

Example

You receive a deconsolidation HU with 10 putaway warehouse tasks. The system moves the HU to the deconsolidation work center because the maximum number of tasks allowed in a deconsolidation HU is only seven. Here, the system creates another putaway HU with five warehouse tasks. The HU is then closed, and a putaway warehouse task is created because the maximum number of putaway warehouse tasks in an HU can't be more than five, as shown in Figure 7.27. The system then creates another HU with the remaining products.

■ Define deconsolidation station

You also need to define the deconsolidation station where the HU will be deconsolidated. To do this, assign the deconsolidation work center or storage type, section, and bin details to the combination of warehouse, source storage bin, HU type group, and destination storage area. The source storage type can be a staging area or door at which the TU is docked. The system determines the warehouse process type to create warehouse tasks to move the HU to a deconsolidation work center based on settings maintained in process-oriented storage control.

You can define the determination of the deconsolidation work center via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Deconsolidation • Specify Deconsolidation Station, as shown in Figure 7.28. Click on New Entries, and provide either the deconsolidation work center or storage type, section, and bin for the deconsolidation work center.

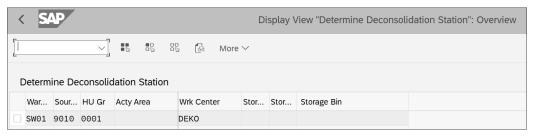


Figure 7.28 Determination of Deconsolidation Work Center

To view the HUs in a deconsolidation work center via Transaction /SCWM/DCONS, which can also be accessed via SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Execution • Deconsolidation in Goods Receipt, provide the deconsolidation work center for your embedded EWM warehouse. Upon execution, the left-hand side of the screen, or the tree control, shows the HUs available in the deconsolidation work center. The upper-right area shows various tabs that can be used to execute actions in packing.

7.6.2 Putaway in Embedded EWM

The goods receipt process ends after putaway of the product in the destination storage type. This is done by confirming the final putaway warehouse tasks. You can schedule the automatic creation of putaway warehouse tasks by setting up the PPF action /SCWM/PDI_01_WT_CREATE for action profile /SCWM/PDI_01 after goods receipt has been processed. If required, you can also create the warehouse tasks manually. To do so, navigate to SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Work Scheduling • Create Warehouse Task for Warehouse Request • Putaway for Inbound Delivery. The system combines the putaway tasks into warehouse orders that are assigned to resources in the warehouse.

You can review the status of warehouse task creation by viewing the value of the Putaway Planning status in the warehouse request. The system sets the Putaway Planning to Partially Completed if you've created warehouse tasks for some of the quantities in the inbound delivery. The system sets the Putaway Planning status to Completed if it has created warehouse tasks for the entire quantity in the warehouse request.

The putaway bin determination is done beginning with determination of storage type, section, and bin. We'll discuss how the system determines the destination storage bin for putaway in the following sections.

Storage Type Determination

In simple putaway, the system determines the source storage type based on the storage type and bin defined in the warehouse process type. For determination of the putaway storage bin, the system first starts by determining the storage type by obtaining information from the inbound delivery document, warehouse product master, packaging specification, and hazardous substance master data (if the product is hazardous) to determine the storage type search sequence. The following data is determined based on the information provided in the inbound delivery (also shown in Figure 7.29):

- Based on the product in the inbound delivery, the system determines the process type indicator and putaway control indicator.
- The system checks if the product is hazardous and determines the hazard rating from the hazardous substance master.
- The system also determines the packaging specifications of the product and assigned warehouse to determine the quantity classification.

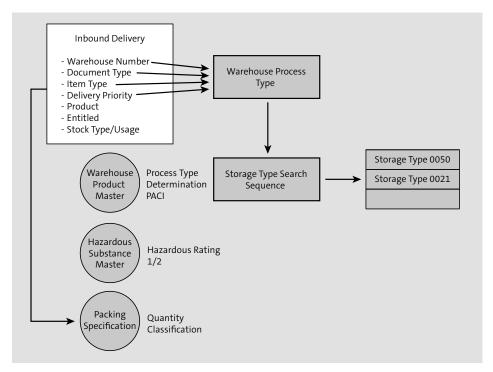


Figure 7.29 Storage Type Determination

The putaway control indicator is used to control putaway for products into similar storage types. To create the putaway indicator, follow IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Type Search • Define Putaway Control Indicator. Click on New Entries, and define a new putaway control indicator for the warehouse, which is then assigned to

the warehouse product master in the **Storage Data** tab using Transaction /SCWM/ MAT1.

To define a storage type search sequence, navigate to IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Type Search • Define Storage Type Search Sequence for Putaway. Click on New Entries, and define a new storage type search sequence for the embedded EWM warehouse.

The storage type search sequence is used to group together storage types in a sequence. To group together storage types, navigate to IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Type Search • Assign Storage Types to Storage Type Search Sequence, as shown in Figure 7.30. Click on New Entries, and add a sequence of storage types to the search sequence.

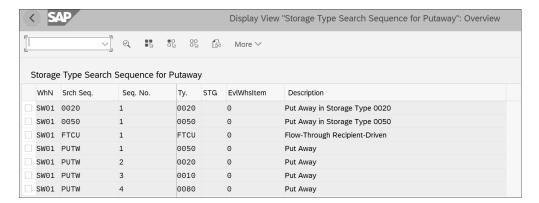


Figure 7.30 Storage Type Search Sequence

The system picks up the first storage type in the search sequence and begins with the determination of the storage section. To set the criteria for determination of the storage type search sequence for a product during putaway, navigate to IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Type Search • Specify Storage Type Search Sequence for Putaway, as shown in Figure 7.31. Define the storage search sequence based on the product parameters and information picked from the inbound delivery, as discussed at the beginning of this section.

As shown in Figure 7.31, multiple combinations are possible in the system for determining the right storage type search sequence for a combination of input criteria. We used optimization of the access sequence for optimizing the access strategy for storage type searches during putaway. The system first looks for a fully qualified entry, that is, an entry in the determination table with all values set. If the system doesn't find a fully qualified entry, then it looks at the access sequence maintained in the optimization table.

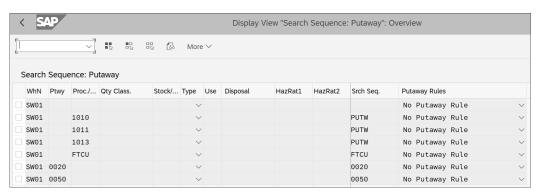


Figure 7.31 Determination of the Storage Type Search Sequence

As shown in Figure 7.32, based on sequence number 0, the system first looks for an entry in the determination table for which both the putaway control indicator and the process type are specified and picks the storage type search sequence maintained for that entry.

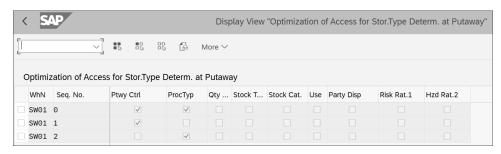


Figure 7.32 Optimization of the Access Sequence

Storage Section Determination

In the next step, the system begins the storage section determination if the storage type contains more than one storage section. The storage section indicator is used to group products that are to be stored in the same storage section during putaway. The section indicator also is assigned to the product master in the Storage Section Ind. field of the Storage Data tab. To define a storage section indicator, navigate to IMG path SCM Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Section Search • Create Storage Section Indicators. Click on New Entries, and define the section indicators for your embedded EWM warehouse.

The system determines the storage section based on the storage type determined previously, the storage section indicator determined from the product master, and the hazardous rating determined from the hazardous substance master, as shown in Figure 7.33.

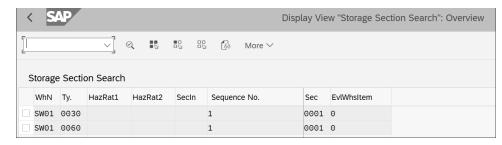


Figure 7.33 Defining the Storage Section Determination

The storage section search is only triggered based on the settings for storage section determination and the check set via IMG path SCM Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Section Search • Storage Section Check, as shown in Figure 7.34. Click on New Entries, and set the section check control (StSC) for the embedded EWM warehouse number (WhN) and storage type (Ty.).

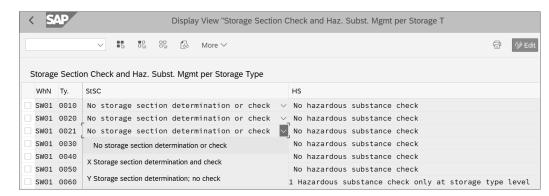


Figure 7.34 Storage Section Check

You can set the following three values for storage section check:

Storage section determination and check

If storage section determination is active, the system performs putaway of goods only in those storage sections defined in the storage section search sequence. If the storage section check is active, the system checks the storage section specified in the putaway warehouse task against the predefined search sequence.

■ Storage section determination; no check

The system performs putaway of goods only in those storage sections defined in the storage section search sequence. However, the system performs no check for predefined storage sections in the warehouse tasks, which means that putaway is allowed in a storage section specified in the warehouse task even if it isn't present in the storage section search sequence.

■ No storage section determination or check

The system performs no storage section determination or check.

Storage Bin Search

After storage section determination, the system looks for storage bins in the determined storage type and storage section. The storage bin is determined based on the settings for storage bin type, bin capacity, and putaway rules as defined in the storage type search strategy. The following data is determined based on the information provided in the product and storage type determination settings:

■ Storage bin type

This is determined based on storage type.

■ HU type

This is determined from packaging specifications of the product.

Maximum number of bins

This is determined from the product master in embedded EWM.

The system also looks for the maximum number of fixed bins, capacity check settings, and putaway rules defined at the storage type level to identify the right storage bin for putaway, as shown in Figure 7.35.

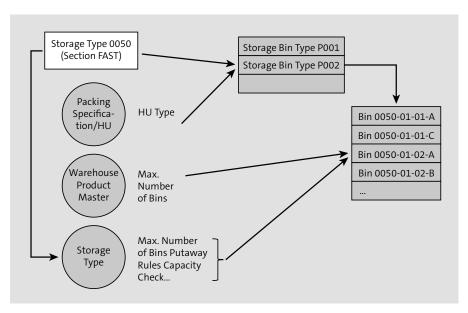


Figure 7.35 Storage Bin Type Determination

The storage bin type is used to group bins with the same physical attributes: dimension, capacity, and so on. Assign the storage bin types to storage types; the system only allows putaway into bins of a bin type assigned to that storage type. You can assign bin types to storage types via IMG path SCM Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Bin Determination • Assign Storage Bin Types to Storage Types, as shown in Figure 7.36. Click on New Entries; add a combination of embedded EWM warehouse, storage type, and storage bin type; and click on Save.

The system only performs a bin type check if you've activated the HU Type check at the storage type level. In this case, the system also checks the allowed HU types for a storage type and bin type in which putaway can be done for the warehouse product. You assign HU types to storage types by following IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Bin Determination • HU Types • Define HU Types for each Storage Type, clicking on New Entries, and defining the allowed HU types in a storage type for your embedded EWM warehouse.

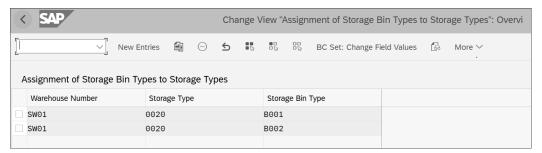


Figure 7.36 Assignment of Storage Bin Types to Storage Types

You assign HU types to bin types by following IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Storage Bin Determination • HU Types • Define HU Types for each Storage Bin Types, clicking on New Entries, and defining the allowed bin types for an HU type in a storage type for your embedded EWM warehouse.

If the system is unable to find a storage bin for a storage type and storage section, then it looks for the next storage section in the storage section search sequence. If it still can't find a storage bin, it looks for bins in the next storage type in the storage type search sequence.

After the right storage type, section, and bin are specified in the warehouse task, you can confirm the warehouse orders using RF or print the open warehouse orders for putaway and confirm them in the system after putaway is complete. You can confirm a warehouse order in the system using Transaction /SCWM/TO_CONF or by navigating to SAP Easy Access path Logistics • SCM Extended Warehouse Management • Extended Warehouse Management • Execution • Confirm Path.

To confirm warehouse orders in RF, navigate to RF menu Inbound Processes • Putaway • Putaway by Warehouse Orders. After you enter the warehouse order, the system displays the first warehouse task in the warehouse order. You can confirm the source bin, product/HU, quantity, and destination bin to confirm the warehouse task, which automatically confirms the warehouse order if there's only one task in the warehouse order.

Embedded EWM also allows you to correct warehouse tasks that have already been confirmed by using status profiles. After a putaway task is confirmed, embedded EWM sets

the Warehouse Activity (DWA) status type to Completed. You can set up a delay in embedded EWM customization so that embedded EWM waits for a defined period before setting the status type Completion Flag (DWM) to Completed after task confirmation. This allows you to go back into the warehouse task and confirm the warehouse task with a revised quantity. When the system sets the DWM status to Completed, it also sets the Completion (DCO) status to Completed by scheduling a background job that marks the completion of goods receipt in embedded EWM; this is also sent back to SAP S/4HANA.

To define a delay in the completion of the inbound delivery, navigate to IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Inbound Delivery • Define Delay in Completing Inbound Deliveries.

You can define the confirmation delay in seconds for a combination of warehouse, document type, and item type, as shown in Figure 7.37. If you want to process the completion of several items simultaneously, you can define a **Tolerance** in seconds. During this time, the system collects all the items for which embedded EWM has set the DWA status to **Completed** and sets the DWM status to **Completed**. The background job to set the DWM status to **Completed** is executed using report /SCWM/R_PRDI_SET_DWM, which is run by default every 120 seconds if the job can't set the status to **Completed** on the previous try. This may happen because of a document lock.



Figure 7.37 Setting for Delay in Inbound Delivery

You can also specify your own custom value to reschedule the execution of this job in the **Delay in Job Reschedule** field.

Note

You can only use confirmation correction with a document type and item profile mapped to a status profile for which the DWM status is **Active**.

Process Warehouse Tasks - Putaway App

The Process Warehouse Tasks - Putaway app from SAP Fiori enables you to perform stock putaway operations by confirming the putaway warehouse task. In the overview screen, as shown in Figure 7.38, you can display all information relevant to the putaway warehouse tasks, which enables you to choose a warehouse task to process. From the

list, you can either confirm or cancel multiple putaway warehouse tasks at once, as well as print putaway lists for the open putaway warehouse tasks. You can also perform putaway warehouse task processing using exception codes for exception handling in the picking warehouse task.

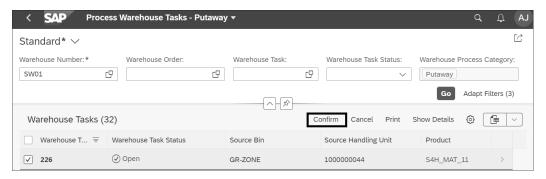


Figure 7.38 SAP Fiori App: Process Warehouse Tasks - Putaway

You can also display and check warehouse task source bins, confirm and cancel the warehouse task, and print the task list, as shown in Figure 7.39. In addition, you can perform filtering based on different filtering criteria as well as navigate to manage product master data for displaying additional information about the product for which the warehouse task is created.

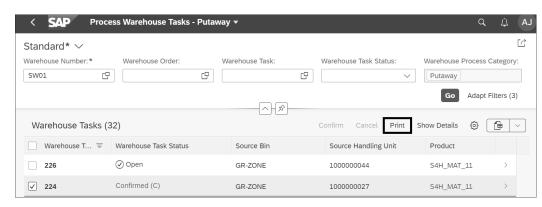


Figure 7.39 Printing the Warehouse Task List Using the Process Warehouse Tasks - Putaway App

7.6.3 Putaway Strategies

Putaway rules and strategies that help in determining the destination bin during putaway are predefined in embedded EWM. The putaway strategies available in embedded EWM are as follows:

- Manual entry
- Fixed storage bin

- General storage
- Addition to existing stock
- Empty storage bin
- Near fixed picking bin
- Pallet storage (by HU type)
- Bulk storage

We'll discuss each of these putaway strategies in detail in the following sections, including the business reason for using each putaway strategy and the settings required in the system to carry it out.

Manual Entry

In this strategy, the storage bin is manually entered in the warehouse task by the warehouse worker at the time of warehouse task creation or confirmation. This strategy is used if the putaway is performed manually by a warehouse worker by scanning the destination bin available. It's usually used in storage types with the staging area group role.

Make the following configurations in the settings for storage type via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Master Data • Define Storage Type:

- Set Storage Behavior to Standard Warehouse.
- Set Putaway Rules to Empty Bin or Addition to Existing Stock/Empty Bin.
- Set the WT Generic field to Only Storage Type.

Fixed Storage Bin

This strategy is used for putaway into fixed storage bins. You can predefine the fixed bins for a product or, if you've defined the fixed storage bin strategy for a storage type, the system determines a suitable storage bin for the product and assigns it a fixed storage bin. This strategy is used if you want to put away products only in specific storage bins. It's mostly used for products that are prone to pilfering. The picking is usually done manually from this storage type.

Make the following configurations in the storage type settings via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Master Data • Define Storage Type:

- Set Storage Behavior to Standard Warehouse.
- Set Putaway Rules to Empty Bin or Addition to Existing Stock/Empty Bin.
- Select the **Fixed Bins Allowed** indicator.

- Define the maximum number of fixed storage bins in the storage type in the Max. Fixed Bins field. Alternatively, define the maximum fixed bins for the product in the storage type in the Max. No. Bin field in the storage type data view of the product master.
- Set the Addition to Existing Stock Permitted value in the Addn.Stock Forbidden field.
- Set a method of **Capacity Check** so that the bin won't be overfilled with a product.

General Storage

As the name suggests, this putaway strategy is used to put away products in the general storage area. A general storage type usually has a single bin per storage section. You can store multiple products in a general storage area. This strategy is used if you want to put away products that are low in volume and can be combined with other products in the warehouse.

Make the following configurations in the storage type settings via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Master Data • Define Storage Type:

- Set Storage Behavior to Standard Warehouse.
- Set Putaway Rules to General Storage Area.
- Set the Mixed Storage field to Mixed Storage without Limitations.

Addition to Existing Stock

This strategy is used if you want to put away stock in a storage bin that already holds similar products. A form of capacity check should be activated at the storage type level so that the bin capacity isn't exceeded. If the system doesn't find a bin with the required bin capacity, it moves the product to an available empty bin. This strategy violates the first in, first out (FIFO) rule, so it should be used only when there is insufficient space in the warehouse.

Make the following configurations in the storage type settings via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Master Data • Define Storage Type:

- Set Storage Behavior to Standard Warehouse.
- Set Putaway Rules to General Storage Area.
- Choose Addition to Existing Stock Is Allowed in the Addn. Stock Forbidden field, and set Product Putaway Profile Decides in the product master. If the latter is selected, then addition to existing stock should be allowed in the product master setting.
- Activate a form of capacity check in the storage type settings.
- Set Mixed Storage to One HU Allowed per Bin so that one bin holds only a single type of product.

Empty Storage Bin

This putaway strategy is used to put away product in the next empty storage bin available in the storage type and is used in warehouses organized randomly in which products are stored in individual storage sections. Such a storage strategy is most suited for high-rack storage and shelf storage.

Make the following configurations in the storage type settings:

- Set Storage Behavior to Standard Warehouse.
- Set Putaway Rules to Empty Bin.
- If required, define relevant settings in **Srchrule Emptybin** to determine the sequence in which the system sorts empty bins.

Near Fixed Picking Bin

This strategy is used to stock products in a reserve storage area near fixed bins assigned for the warehouse product. You can configure the system to first check if a fixed bin is available in the fixed bin storage type (also called the reference storage type). If the system doesn't find a fixed bin, it looks in empty bins near the fixed bins. The stock is put away into the reserve storage bins until one of the fixed bins becomes empty, at which point, the warehouse worker manually moves the stock to the fixed bins. Although both fixed bins and near fixed bins are in proximity, they're defined as separate storage types.

This strategy is used to put away stock in reserve storage bins in close proximity to fixed bins. It can only be used for products assigned to fixed bin storage.

Make the following configurations in the storage type settings:

- Set Storage Behavior to Standard Warehouse.
- Set Putaway Rules to Empty Bin or Addition to Existing Stock/Empty Bin.
- Set Srchrule Emptybin to Near to Fixed Bin so that the system will search for empty bins near the fixed bins.

As shown in Figure 7.40, you can assign a fixed bin storage type to a reserve storage type and define sorting rules for the near to picking bin putaway strategy via IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Putaway Rules • Sorting Near to Picking Bin • Storage Type Control: Near to Picking Fixed Bin. Click on New Entries, and define a reference storage type (Ref. Type) and its attributes for the fixed bin storage type.

You should also define the search scope that the system uses to look for reserve bins based on the reference fixed bins. To do this, navigate to IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Putaway Rules • Sorting Near to Picking Bin • Define Search Scope for Each Level. Click on New Entries, and add a combination of storage type, level, and search width for your embedded EWM warehouse.



Figure 7.40 Settings for Near Fixed Picking Bin

As a rule, the system always looks for empty bins in the same stack, begins its search from the bottom level, and moves to the top before moving to a neighboring stack. If the system is unable to determine an empty bin, then it moves to the next aisle. If the system is still unable to find a reserve bin based on the defined search scope, it moves to a different bin in the next storage type defined in the search sequence. In Figure 7.41, for bins in fixed storage type OO5O at level A, the system looks for reserve storage bins up to a maximum of two stacks in either direction for all the levels in the reserve storage type.

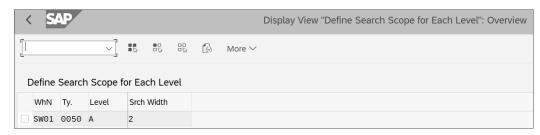


Figure 7.41 Defining the Search Scope for Each Level

Pallet Storage

This putaway strategy is used for storing pallets of different HU types in the warehouse. A storage type is assigned to different bin sections, and only HUs belonging to the same HU types can be stocked in the bin section. The storage bin sections are created upon first putaway in the storage type. These sections are automatically deleted when the last HU is removed from the storage bin. The system also determines the maximum number of HUs that can be stored in the storage bin. Pallet storage also provides easy access to product for conducting physical inventory and cycle counts.

This strategy is mostly used in high-rack storage for stacking HUs of different HU types. Dynamic creation of bin sections provides adaptability for change in warehousing and storage needs.

Make the following configurations in the storage type settings:

- Set Storage Behavior to Pallet Storage.
- Set Putaway Rules to Empty Bin.

- Activate **HU Type Check** at the storage type level.
- Set Mixed Storage to Mixed Storage without Limitation.

As shown in Figure 7.42, you can define how many storage bin sections can be created in the storage bin. These sections help control the number of HUs that can be contained in a storage bin. To define bin sections, navigate to IMG path SCM Extended Warehouse Management • SCM Extended Warehouse Management • Management • Goods Receipt Process • Strategies • Putaway Rules • Storage Behavior: Pallets • Define Bin Sections. Click on New Entries, and define the number of HUs that can be stored in the bin, section keys, and positioning for defining the naming convention of the bin section.

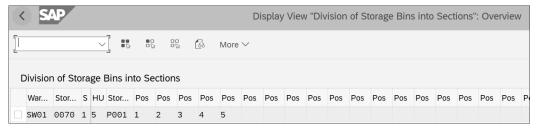


Figure 7.42 Defining Bin Sections

Section Key is used to describe the sections in a storage bin. You can specify the number of sections that need to be created for a bin in a storage type and the naming convention that can be used to create the storage bin section. The created storage bin section is added as a suffix to the storage bin name. For example, based on the settings defined earlier, the system creates five storage bin sections for a storage bin. If the bin name is 05-10-01, then the storage bins sections are created from 05-10-01/1 to 05-10-01/5.

The created section keys are also assigned to storage types, bin types, and HU types. To do so, navigate to IMG path SCM Extended Warehouse Management • SCM Extended Warehouse Management • Goods Receipt Process • Strategies • Putaway Rules • Storage Behavior: Pallets • Perform Bin Sectioning for Bin Type and HU Type. Click on New Entries; add a combination of embedded EWM warehouse, storage type, bin type, and HU type; and click on Save. As shown in Figure 7.43, the system creates five storage sections when HU Type E1 is put into a storage bin for a storage type.

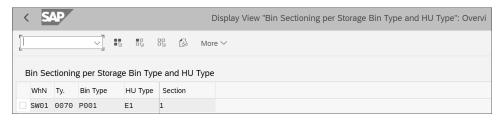


Figure 7.43 Perform Bin Sectioning for Bin Type and HU Type

Bulk Storage

Bulk storage is used to store products requiring a large amount of storage space. The advantages of bulk storage are as follows:

- Reduced need for physical bins
- Faster access to bins
- Clear structuring of the warehouse into blocks and rows

Bulk storage is mostly used to store containerized goods. It's an economical form of storage because it doesn't require setting up racks and other infrastructure. Putaway can be done directly on the warehouse floor. The pallets or containers are usually stackable and can be stored on top of one another. Putaway and retrieval is mostly done using a forklift.

Make the following configurations in the storage type settings:

- Set Storage Behavior to Bulk Storage.
- Set Putaway Rules to Addition to Existing Stock/Empty Bin.
- Set Addn. Stock Forbidden to Addition to Existing Stock Permitted.
- Don't activate HU Type Check and Capacity Check.

You can store different HU types in bulk storage. However, each bulk bin can have only a single HU type. Bulk storage is created by dividing the warehouse floor into rows. Each row is classified as a storage bin based on the storage bin type. The pallets can be stacked on top of one another, which should also take the warehouse height into account. To define the capacity of a bulk bin, define a bulk structure using a bulk storage indicator.

The bulk storage indicator is used to classify products according to their stacking requirements. You can create the bulk structure by following IMG path SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Putaway Rules • Storage Behavior: Bulk Storage • Define Bulk Storage Indicators. Click on New Entries, and add a combination of bin type, HU type, and bulk storage indicator to define a bulk structure for a bulk storage type in a warehouse, as shown in Figure 7.44. The product of stack and stack height can be used to determine the number of HUs contained in a bulk bin.

The number of HUs in a bulk bin and maximum number of allowed HUs can be seen in the Bin Sectioning tab of the bin master in Transaction /SCWM/LSO3. Bulk storage directly violates the FIFO principle due to the stacking of products. You can control it via settings available at SCM Extended Warehouse Management • Extended Warehouse Management • Goods Receipt Process • Strategies • Putaway Rules • Storage Behavior: Bulk Storage • Storage Type Control for Bulk Storage, as shown in Figure 7.45.



Figure 7.44 Defining the Bulk Structure



Figure 7.45 Control for Bulk Storage

The **Putaway Blocked** indicator is used to block putaway in bulk bins after the first stock removal has taken place. This prevents a product from being left in the bulk bin for a significantly long time due to continuous putaway. The **Time Limit** field is used to specify the amount of time in days for which putaway is allowed in the bulk bin. Because the stock in the bulk bin takes the goods receipt date of the first goods receipt in the bin, it's a good idea to block putaway after a certain number of days so that FIFO principles aren't violated. Bulk storage only allows full pallets in the warehouse. You can set the **Part. Qty** indicator if you want to store partial pallets in bulk bins.

7.7 Summary

In this chapter, we covered the goods receipt process in embedded EWM. We discussed the concept of warehouse requests and the document- and item-level settings required to map deliveries from SAP S/4HANA in embedded EWM. We also discussed various processes that occur in the warehouse during inbound processing, such as unloading, storage process control, yard management, and so on. We discussed how packing items can be added in an inbound delivery after goods receipt and the latest changes in HU processing using RF devices. Finally, we discussed various putaway strategies and how the destination storage bin for putaway is determined in embedded EWM. In the next chapter, we'll move on to outbound processing in embedded EWM.

Contents

			25 27
1	War	ehouse Management in SAP	35
1.1	What	Is Warehouse Management?	35
1.2	Wareh	nouse Management with SAP	37
1.3	SAP S/	4HANA Conversion and Migration	40
	1.3.1	Migration Objects for the SAP EWM to Decentralized	42
	1.3.2	EWM ScenarioApplication Link Enabling Configuration for Master Data Distribution	43
1.4	Deplo	yment Options for EWM in SAP S/4HANA	46
	1.4.1	Embedded EWM in SAP S/4HANA	46
	1.4.2	Decentralized EWM in SAP S/4HANA	47
	1.4.3	Stock Room Management	48
	1.4.4	Connection of Multiple ERPs with Non-Harmonized Business Partners to an EWM System	50
1.5	Basic a	and Extended Warehouse Management	50
1.6		ary	51
2	Orga	anizational Structures	53
2.1	Client		54
2.2		any	55
2.3	_	any Code	56
2.4	•	,	57
2.5		ge Location	59
2.6	_	nouse	60
	2.6.1	Creating a Warehouse in SAP S/4HANA	60
	2.6.2	Creating a Warehouse in Embedded EWM	61

	2.6.3	Linking Embedded EWM and Decentralized SAP S/4HANA Warehouses	62
	2.6.4	Activating Logistics Execution Warehouse for Embedded EWM in SAP S/4HANA	63
	2.6.5	Linking Decentralized EWM in SAP S/4HANA with SAP ERP	65
	2.6.6	Mapping Warehouses	70
	2.6.7	Assignment of Business Partners	70
	2.6.8	Delivery Split	71
2.7	Summ	ary	73
3		Steps in Implementing Embedded EWM AP S/4HANA	75
3.1	Basic S	System Setup	76
3.2	Maste	r Data Integration	80
3.3	Delive	ry Settings and Integration	80
	3.3.1	Distribution Model	81
	3.3.2	Delivery Mapping in Embedded Extended Warehouse	
		Management	82
	3.3.3	Mapping Plant and Storage Location in Embedded EWM	84
3.4	Migra	tion from Third-Party Systems	84
3.5	Migra	tion from WM to Embedded EWM	87
	3.5.1	Migration of Warehouse Product Data	88
	3.5.2	Storage Bin Migration	90
	3.5.3	Stock Migration	90
	3.5.4	Physical Inventory Completeness	91
3.6	•	tion of Objects from SAP EWM to Decentralized EWM in	
	SAP S/	4HANA	92
3.7	Summ	ary	93
4	War	ehouse Structures	95
4.1	Storag	ge Type	97
	4.1.1	General Settings	98
	4.1.2	Putaway Control	105

	4.1.3	Stock Removal Control	117
	4.1.4	Goods Movement Control	120
	4.1.5	Replenishment Control	122
4.2	Storag	e Section	123
4.3	Storag	e Bins	124
	4.3.1	Storage Bin Master	124
	4.3.2	Storage Bin Types	128
	4.3.3	Bin Access Type	128
	4.3.4	Storage Bin Structure	129
	4.3.5	Creating Storage Bins	132
	4.3.6	Modifying Storage Bins	134
	4.3.7	Change Documents for Storage Bins	134
	4.3.8	Executing Storage Bin Sorting	136
	4.3.9	Assignment of Fixed Bins to Product	137
	4.3.10	Change Log for Fixed Storage Bin Assignments	138
	4.3.11	Bin Verification Field	140
	4.3.12	Printing Storage Bin Labels	141
4.4	Stagin	g Area and Warehouse Door	142
	4.4.1	Staging Area	142
	4.4.2	Warehouse Door	143
	4.4.3	Assigning the Staging Area to the Door	144
4.5	Activit	y Area	144
4.6	Work (Center	148
	4.6.1	Work Center Layout	148
	4.6.2	Define Work Center	149
	4.6.3	Optimizing Work Center Determination	153
4.7	Summ	ary	154
5	Mast	ter Data	155
F 1	Cummly	Chain Hait	156
5.1		Chain Unit	156
5.2	Busine	ss Partners	157
5.3	Produc	t Master	160
	5.3.1	Material Master in SAP S/4HANA	160
	5.3.2	Product Master in Embedded EWM	165
5.4	Packag	ging Material	190
5.5	Packag	ging Specifications	192

	5.5.1	Number Range Object and Interval for Serial Shipping	
		Container Codes	192
	5.5.2	Packaging Specification Structure	193
	5.5.3	Creation of Packaging Specification	
	5.5.4	Determination of Packaging Specification	
	5.5.5	Distribution of Packing Instructions as Packaging Specifications	
	5.5.6	Mass Changes of Packaging Specification	201
5.6	Routes	i	203
5.7	Summ	ary	204
_	Cuas	a Dua casa Cattinas	
6	Cros	s-Process Settings	205
6.1	Wareh	ouse Requests	205
 _	6.1.1	What Are Warehouse Requests?	
	6.1.2	Process Code Profile	
	6.1.3	Status Profile	
	6.1.4	Quantity Offsetting Profile	
	6.1.5	Text Profile	
	6.1.6	Field Control Profile	
	6.1.7	Incompleteness Check Profile	
	6.1.8	Action Profile	
	6.1.9	Partner Profile	
	6.1.10	Reference Document Profile	216
	6.1.11	Date Profile	217
	6.1.12	Process Profile	218
6.2	Handli	ng Units	219
	6.2.1	What Are Handling Units?	
	6.2.2	Configuring Handling Units	223
	6.2.3	Using Global Transport Label Number	
	6.2.4	Printing Handling Units	227
	6.2.5	Packing Enhancements Using Unified Package Building	228
6.3	Wareh	ouse Tasks	231
	6.3.1	What Are Warehouse Tasks?	231
	6.3.2	Warehouse Process Type	232
	6.3.3	Product Warehouse Task	236
	6.3.4	Handling Unit Warehouse Task	237
6.4	Wareh	ouse Order	237
	6.4.1	What Are Warehouse Orders?	238

	6.4.2	Configuring Warehouse Orders	240
	6.4.3	Printing Warehouse Orders	247
	6.4.4	Manual Assembly of Warehouse Orders	248
6.5	Storage	e Control	249
	6.5.1	What Is Storage Control?	250
	6.5.2	Storage Control in the Outbound Process	251
	6.5.3	Storage Control in Internal Process	253
	6.5.4	Process-Oriented Storage Control	254
	6.5.5	Layout-Oriented Storage Control	256
6.6	Excepti	ion Handling	258
	6.6.1	What Is Exception Handling?	259
	6.6.2	Configuration Elements of Exception Codes	260
	6.6.3	Define New Exception Code	262
	6.6.4	Exception Code Usage	265
6.7	Batch <i>I</i>	Management	266
	6.7.1	What Is Batch Management?	267
	6.7.2	Configuring Batch Management	268
	6.7.3	Batches in Goods Movement	273
	6.7.4	Documentary Batch	275
	6.7.5	Plant-Specific Batch Handling	276
	6.7.6	Product Genealogy for Batch-Managed Materials	277
	6.7.7	Stock Consolidation for Different Batches	278
	6.7.8	Batches in Decentralized EWM	279
6.8	Stock I	dentification	279
	6.8.1	What Is Stock Identification?	280
	6.8.2	Using Stock Identification	282
	6.8.3	Using Stock Identification for Splitting Stock	283
6.9	Catch V	Neight Management	285
	6.9.1	What Is Catch Weight Management?	285
	6.9.2	Master Data Changes for Catch Weight	286
	6.9.3	Using Catch Weight	288
6.10	Post Pr	ocessing Framework	290
	6.10.1	Configuring the Post Processing Framework	291
	6.10.2	Post Processing Framework Execution	298
6.11	Travel	Distance Calculation	298
	6.11.1	What Is Travel Distance Management?	298
	6.11.2	Settings for Travel Distance Calculation	301
	6.11.3	Travel Distance Calculation	302
6.12	Serial N	Number Management	304
	6.12.1	What Is Serial Number Management?	304

	6.12.2	Serial Number Profile	305
	6.12.3	Serial Number Requirements	308
	6.12.4	Provisional Serial Numbers	311
	6.12.5	Using Serial Numbers	311
	6.12.6	Item Unique Identification (US Department of Defense)	315
	6.12.7	Harmonized Serial Number Profile	316
6.13	Quality	y Management	319
	6.13.1	What Are Quality Inspections?	320
	6.13.2	Configuring Quality Management	321
	6.13.3	Master Data in Quality Management	326
	6.13.4	Quality Inspection Process	330
	6.13.5	Quality Inspection Scenarios	333
	6.13.6	Defect Processing (Post to Block/Unrestricted Stock and to	
		Cost Center)	344
	6.13.7	First Article Inspection	346
	6.13.8	Moving Sample Stock to Quality Inspection	347
6.14	Attach	ments Service for Embedded EWM Objects	349
6.15	License	Auditing in Embedded EWM	350
6.16		ary	
		und Processing	351
6.16	Inbo		353
6.16 7	Inbo	und Processing	353
6.16 7	Inbo What I	und Processing Happens During Inbound Processing?	353 354
6.16 7	What I 7.1.1 7.1.2	und Processing Happens During Inbound Processing? Business Process	353 354 354 357
6.16 7 7.1	What I 7.1.1 7.1.2	und Processing Happens During Inbound Processing? Business Process System Process	353 354 357 359
6.16 7 7.1	What I 7.1.1 7.1.2 Config	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing	353 354 357 359 359
6.16 7 7.1	What I 7.1.1 7.1.2 Config 7.2.1	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types	353 354 357 359 359
6.16 7 7.1	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types	353 354 357 359 360
6.16 7 7.1	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2 7.2.3	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types Mapping the Inbound Delivery	353 354 357 359 360 360
6.16 7 7.1	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types Mapping the Inbound Delivery Stock Type Determination in Inbound Delivery	353 354 357 359 360 360 362
6.16 7 7.1 7.2	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 Inbour	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types Mapping the Inbound Delivery Stock Type Determination in Inbound Delivery Stock Type Enhancement	353 354 357 359 360 362 366 366
6.16 7 7.1 7.2	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 Inbour Check-	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types Mapping the Inbound Delivery Stock Type Determination in Inbound Delivery Stock Type Enhancement	353 354 357 359 360 362 366 366
6.16 7 7.1 7.2 7.3 7.4	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 Inbour Check-Unload 7.5.1	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types Mapping the Inbound Delivery Stock Type Determination in Inbound Delivery Stock Type Enhancement and Delivery In Hing and Goods Receipt Process Unloading	353 354 357 359 360 360 366 366 368 370
6.16 7 7.1 7.2 7.3 7.4	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 Inbour Check- Unload	Und Processing Happens During Inbound Processing? Business Process System Process Uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types Mapping the Inbound Delivery Stock Type Determination in Inbound Delivery Stock Type Enhancement In Delivery In Unloading Packing Proposal in Inbound Delivery	353 354 357 359 360 366 366 366 370 370
6.16 7 7.1 7.2 7.3 7.4	What I 7.1.1 7.1.2 Config 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 Inbour Check-Unload 7.5.1	und Processing Happens During Inbound Processing? Business Process System Process uring Inbound Delivery Processing Document Category and Document Types Item Category and Item Types Mapping the Inbound Delivery Stock Type Determination in Inbound Delivery Stock Type Enhancement and Delivery In Hing and Goods Receipt Process Unloading	353 354 357 359 360 366 366 366 368 370 372

	7.5.5	Automatic Packing Item Generation in Inbound Delivery
	7.5.6	Additional Features for Handling Unit Receipt
7.6	Putaw	ay
	7.6.1	Deconsolidation
	7.6.2	Putaway in Embedded EWM
	7.6.3	Putaway Strategies
7.7	Summ	ary
8	Outl	bound Processing
8.1	What	Happens during Outbound Processing?
	8.1.1	Business Process
	8.1.2	System Process
8.2	Config	guring Outbound Delivery Processing
	8.2.1	Document Type and Item Type in the Outbound Process
	8.2.2	Mapping Outbound Deliveries
	8.2.3	Assigning Item Types to Document Types
	8.2.4	Configuring and Using Consolidation Groups
	8.2.5	Reuse of the Logistics Execution Delivery Number in
		Warehouse Requests
8.3	Outbo	und Delivery
	8.3.1	Outbound Delivery Order
	8.3.2	Outbound Delivery Creation
	8.3.3	Delivery Creation Using References
	8.3.4	Direct Outbound Delivery Process
	8.3.5	Changing Order Quantity
8.4	Stock	Removal
	8.4.1	Warehouse Tasks
	8.4.2	Storage Type Determination
	8.4.3	Stock Removal Strategies
8.5	Pickin	g and Packing
	8.5.1	Stock Removal Execution
	8.5.2	Handling Denials during Picking
	8.5.3	Picking Cancellations
	8.5.4	Handling Differences while Picking
	8.5.5	Use of Pick Handling Units in Picking
	8.5.6	Packing in the Outbound Process
	8.5.7	Advanced Packing for Outbound Deliveries
	8.5.8	Creation of a Batch Subitem during Warehouse Task Confirmation

8.6	Loadir	ng	448
	8.6.1	Door and Staging Area Determination	448
	8.6.2	Integration with Yard Management	449
8.7	Goods	s Issue Posting and Partial Goods Issue Using Delivery Splits	450
	8.7.1	Goods Issue Posting	
	8.7.2	Partial Goods Issue Using Delivery Splits	
	8.7.3	Post Goods Issue to Cost Center, Order, or Project	
	8.7.4	Automatic Packing Item Generation in Outbound Delivery	
	8.7.5	Shipping Cockpit and Background Processing	460
	8.7.6	Item Conversion to Zero Report	46
8.8	Summ	nary	462
^	مادرا	wall Marchausa Drassess	
9	inte	rnal Warehouse Processes	463
9.1	Replei	nishment	46
	9.1.1	What Is Replenishment?	464
	9.1.2	Basic Settings	460
	9.1.3	Planned Replenishment	47
	9.1.4	Order-Related Replenishment	47
	9.1.5	Crate Part Replenishment	47
	9.1.6	Direct Replenishment	47
	9.1.7	Automatic Replenishment	479
	9.1.8	Process Preallocated Stock	48
9.2	Ad Ho	c Warehouse Movement	48
9.3	Stock	Consolidation	48
9.4	Postin	ng Change	48
	9.4.1	What Is Posting Change?	49
	9.4.2	Basic Settings	49
	9.4.3	Posting Change Process	49
	9.4.4	Synchronous Goods Movement	49
	9.4.5	Change Stock Type Using Report	49
	9.4.6	Automatic Posting of Consignment to Your Own Stock	49
9.5	Stock	Transfer	49
	9.5.1	What Is Stock Transfer?	49
	9.5.2	Warehouse Request for Stock Transfer	50
	9.5.3	Internal Stock Transfer Process	50
	9.5.4	Consolidation Group Determination for Stock Transfer	
9.6	Summ	nary	50

TO	rnys	ical inventory	505
10.1	What I	s Physical Inventory?	505
LU.I	10.1.1	Business Process	505
	10.1.1	System Process	508
10.2			
10.2	-	al Inventory Processes	509
	10.2.1 10.2.2	Periodic Physical Inventory	510 510
	10.2.2	Continuous Physical Inventory Cycle Counting	510
	10.2.3	Sample-Based Inventory	513
10.3	10.3.1	uring Physical Inventory	514
	10.3.1	Settings Specific to the Physical Inventory Area	514 517
	10.3.2	Settings Specific to the Warehouse Number Define Tolerance Group	517
	10.3.4	Define Reasons and Priority	520
	10.3.5	Printing for the Physical Inventory Process	523
10.4		al Inventory Documents	525
10.4	10.4.1	•	525
	10.4.1	Create a Physical Inventory Document Process a Physical Inventory Document	529
	10.4.3	Difference Analyzer	534
	10.4.4	Stock Comparison with SAP S/4HANA	535
	10.4.5	Post Differences Automatically to SAP S/4HANA	536
10.5	Physica	al Inventory Using Paper-Driven Counting	537
10.6			540
	_	Radio Frequency in Physical Inventory Processes	
10.7	Physica	al Inventory on Production Supply Area	542
10.8	Summa	ary	543
11	Reso	urce Management	545
11.1	What I	s Resource Management?	546
	11.1.1	Business Process	546
	11.1.2	System Process	547
11.2	Config	uring Resource Management	548
	11.2.1	Define Queue Types	548
	11.2.2	Define Queues	548
	11.2.3	Define Resource Types	551
	11.2.4	Maintain Execution Priorities for Resource Types	552

	11.2.5	Define the Resource Group	55
	11.2.6	Define Resource	55
11.3		requency	55
	11.3.1	System-Guided Processing	55
	11.3.2	Semi-System-Guided Processing	55
11.4		terleaving	56
11.5	•	ack, and Pass	56
	11.5.1 11.5.2	Configuration	56 56
		<u> </u>	
11.6	Resour 11.6.1	ce Execution Constraint Configuration	56 56
	11.6.1	Task Execution	56
11.7		ation with Warehouse Insights	56
	_	•	
11.8	Summa	ary	56
12	\A/~ #	ahawa Manitarina and Danartina	
12	vvar	ehouse Monitoring and Reporting	57
12.1	What I	s Warehouse Monitoring and Reporting?	57
12.1	12.1.1	Business Process	57
	12.1.2	System Process	57
12.2	Wareh	ouse Monitor	57
	12.2.1	Warehouse Monitor Layout and Features	57
	12.2.2	Personalizing the Warehouse Monitor	57
	12.2.3	Message Queue Monitoring	58
	12.2.4	Process Execution via the Warehouse Monitor	58
12.3	Graphi	cal Warehouse Layout	60
12.4	Measu	rement Services	60
12.5	Wareh	ouse Key Performance Indicators	60
12.6	Core D	ata Services Views for Warehouse Processes	60
12.7			60
/	Summ	arv	
	Summa	ary	00
	Summa	ary	Ю
12			
13		anced Production Integration	
13	Adva		60

	13.1.2	System Process	63	
13.2	Config	uring Advanced Production Integration	63	
13.3	Production Material Request			
13.4	Produc	tion Supply Area	6	
	13.4.1	Managing Production Supply Area Stock in a Warehouse	6	
	13.4.2	Define the Production Supply Area	6	
	13.4.3	Change Documents for the Control Cycle	6	
	13.4.4	Automatic Replication of a Production Supply Area	6	
	13.4.5	Plant Maintenance Supply	6	
13.5	Staging	g and Consumption	6	
	13.5.1	Process Execution	6	
	13.5.2	Distribution Equipment during Staging in a Production Supply Area	6	
	13.5.3	Confirming Pick Warehouse Tasks with HU Positions on a Desktop	6	
	13.5.4	Release Partial Quantity of Staged Product for Production Material Request	6	
	13.5.5	Expected Goods Receipt Integration with Decentralized EWM	6	
13.6	Receipt	from Production	6	
13.7	Kanbar	n Replenishment Strategy	6	
13.8	Synchr	onous Goods Movements	6	
	13.8.1	Repetitive Manufacturing	6	
	13.8.2	Post Goods Movement in Production Process	6	
	13.8.3	Confirmations from Discrete and Process Manufacturing	6	
	13.8.4	Goods Receipt of HUs from Repetitive, Discrete, and Process		
		Manufacturing	6	
	13.8.5	Re-Creation of Consumed Handling Units with		
		Description of Constitution of Constitution	6	
		Document-Specific Cancellation of Consumption		
	13.8.6	Goods Receipt for Kanban	6	
	13.8.6 13.8.7	· · · · · · · · · · · · · · · · · · ·		
13.9	13.8.7	Goods Receipt for Kanban		
13.9	13.8.7 Post Co	Goods Receipt for Kanban	6	
	13.8.7 Post Co	Goods Receipt for Kanban BAPIs and APIs for Goods Movement Insumption with Backflush for Products Supplied with tion Material Request	6	
	13.8.7 Post Co Produc Just-in-	Goods Receipt for Kanban BAPIs and APIs for Goods Movement Insumption with Backflush for Products Supplied with	6	
13.10	Post Co Produc Just-in- Just-in-	Goods Receipt for Kanban BAPIs and APIs for Goods Movement Insumption with Backflush for Products Supplied with tion Material Request Time Supply to Production with Stock Transfer for	6	

14	Radi	o Frequency Framework	649		
14.1	What Is the Radio Frequency Framework?				
	14.1.1	Business Process			
	14.1.2	System Process			
14.2	Config	uring the Radio Frequency Framework	652		
	14.2.1	Logon and Logoff			
	14.2.2	Menu Manager			
	14.2.3	Screen Manager			
	14.2.4	Push Buttons on a Radio Frequency Screen			
	14.2.5	Modifying Radio Frequency Transactions			
	14.2.6	Verification Profile			
	14.2.7	Enhancements in Screen Display and Logging Transaction in			
		Radio Frequency Framework	663		
14.3	Naviga	ition in Radio Frequency	664		
14.4	Process	s Execution Using Radio Frequency	666		
	14.4.1	Process Overview			
	14.4.2	Skipping Warehouse Orders			
	14.4.3	Enhancements to the Radio Frequency Framework			
	14.4.4	SAP GUI for HTML for Browser-Based Radio Frequency Devices			
14.5	Summ	ary			
14.5	Jannin	ury	070		
15	Cros	s-Docking	673		
		8			
15.1	What I	s Cross-Docking?	672		
	15.1.1	Business Process	672		
	15.1.2	System Process	672		
15.2	Mercha	andise Distribution	673		
	15.2.1	Merchandise Distribution Cross-Docking	674		
	15.2.2	Merchandise Distribution Flow-Through	675		
15.3	Opport	tunistic Cross-Docking	678		
	15.3.1	Triggered in Embedded Extended Warehouse Management	678		
	15.3.2	Push Deployment and Pick from Goods Receipt	682		
15.4	Summa	ary	682		

16	Wave Management	68				
16.1	What is Wave Management?					
	16.1.1 Business Process	68				
	16.1.2 System Process	6				
16.2	Configuring Wave Management	6				
	16.2.1 Wave Types	6				
	16.2.2 Wave Categories	6				
	16.2.3 Set Automatic Wave Generation for the Warehouse Process Type	6				
	16.2.4 Maintain Wave Capacity Profile	6				
	16.2.5 Wave Templates	6				
	16.2.6 Wave Template Determination	6				
	16.2.7 Business Add-In for Checking Wave Capacity	6				
16.3	Wave Creation Process	6				
16.4	Two-Step Picking	6				
	16.4.1 Configuration	7				
	16.4.2 Execution of Two-Step Picking	7				
	Wave Simulation					
16.5	Wave Simulation	7				
16.5 16.6	Summary					
	Slotting and Rearrangement	7				
16.6 17	Slotting and Rearrangement What Are Slotting and Rearrangement?	7(
16.6 17	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process	7 7 7				
16.6	Slotting and Rearrangement What Are Slotting and Rearrangement?	7 7 7				
16.6 17 17.1	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting	7 7 7 7				
16.6 17 17.1	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting	7 7 7 7 7				
16.6 17	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting	7 7 7 7 7				
16.6 17 17.1 17.2	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting	7 7 7 7 7				
16.6 17 17.1 17.2	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting 17.2.2 Condition Technique	7 7 7 7 7 7 7				
16.6 17 17.1	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting 17.2.2 Condition Technique Slotting Process Steps	7 7 7 7 7 7 7 7 7				
16.6 17 17.1	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting 17.2.2 Condition Technique Slotting Process Steps 17.3.1 Simulate Slotting	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
16.6 17 17.1 17.2	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting 17.2.2 Condition Technique Slotting Process Steps 17.3.1 Simulate Slotting 17.3.2 Perform Slotting	7 7 7 7 7 7 7 7 7 7 7				
16.6 17 17.1 17.2 17.3	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting 17.2.2 Condition Technique Slotting Process Steps 17.3.1 Simulate Slotting 17.3.2 Perform Slotting 17.3.3 Activate Planned Values	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
16.6 17 17.1 17.2	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting 17.2.2 Condition Technique Slotting Process Steps 17.3.1 Simulate Slotting 17.3.2 Perform Slotting 17.3.3 Activate Planned Values ABC Analysis Rearrangement	7				
16.6 17 17.1 17.2 17.3	Slotting and Rearrangement What Are Slotting and Rearrangement? 17.1.1 Business Process 17.1.2 System Process Configuring Slotting 17.2.1 Storage Parameters Determined Using Slotting 17.2.2 Condition Technique Slotting Process Steps 17.3.1 Simulate Slotting 17.3.2 Perform Slotting 17.3.3 Activate Planned Values ABC Analysis Rearrangement	70 70 70 70 70 70 70 70 70 70 70 70 70 7				

Ship	ping and Receiving	725
What I 18.1.1 18.1.2	726	
Config 18.2.1 18.2.2 18.2.3	General Settings Transportation Unit and Vehicles	728 732
Yard M 18.3.1 18.3.2 18.3.3 18.3.4 18.3.5 18.3.6 18.3.7	Configuring Yard Management	
Shippii	ng Cockpit	747
Summa	ary	748
Labo	r Management	749
What I 19.1.1 19.1.2	•	750
Setting	System Process	13.
19.2.1 19.2.2 19.2.3 19.2.4 19.2.5	System Process	
19.2.1 19.2.2 19.2.3 19.2.4 19.2.5	Activating Labor Management	
	What I 18.1.1 18.1.2 Config 18.2.1 18.2.2 18.2.3 Yard N 18.3.1 18.3.2 18.3.4 18.3.5 18.3.6 18.3.7 Shippii Summ Labo What I	Configuring Shipping and Receiving 18.2.1 General Settings 18.2.2 Transportation Unit and Vehicles 18.2.3 Loading and Unloading Yard Management 18.3.1 Configuring Yard Management 18.3.2 Yard Structure 18.3.3 Check-In and Check-Out 18.3.4 Internal Yard Movements 18.3.5 Executing Yard Management 18.3.6 Monitoring in Yard Management 18.3.7 Change Documents for Transportation Units Shipping Cockpit Summary Labor Management? 19.1.1 Business Process

19.6	Employee Performance			
19.7	Summary			
20	Valu	e-Added Services	773	
20.1	What A	Are Value-Added Services?	773	
	20.1.1	Business Process	774	
	20.1.2	System Process	775	
20.2	Structu	re and Execution of VAS Orders	776	
	20.2.1	Structure of a VAS Order	776	
	20.2.2	Execution of a VAS Order in a VAS Work Center	777	
20.3	Config	uring VAS	779	
	20.3.1	Product Group Type and Product Group	779	
	20.3.2	Number Range for VAS Order	780	
	20.3.3	Activate Order Management for VAS	780	
	20.3.4	Define Relevance for VAS	781	
	20.3.5	Warehouse-Number-Dependent VAS Settings	782	
	20.3.6	Planned Times for VAS Activities	783	
	20.3.7	VAS Effort	784	
	20.3.8	Packaging Specification for VAS	785	
20.4	Proces	s Variants for VAS	786	
	20.4.1	VAS with Process-Oriented Storage Control	787	
	20.4.2	VAS with Process Steps	787	
	20.4.3	VAS without Process-Oriented Storage Control or Process Steps	788	
20.5	Auxilia	ry Products in VAS	789	
20.6	Printin	g VAS Documents	791	
20.7	Summ	ary	793	
21	Kitti	ng	795	
21.1	What I	s Kitting?	795	
	21.1.1	Business Process	795	
	21.1.2	System Process	798	
21.2	Kit to 9	Stock	799	
	21.2.1	Kit to Stock Using a Production Order	799	
	21.2.2	Kit to Stock Using a VAS Order	800	

21.3	Kit to 0	Order	801
	21.3.1	Kitting during Picking	802
	21.3.2	Kitting at a Kit-Specific Work Center	803
	21.3.3	Kitting at the Packing Work Center	808
21.4	Revers	e Kitting	809
21.5	Summ	ary	811
22	Cart	onization Planning	813
22.1	What I	s Cartonization Planning?	813
	22.1.1	Business Process	
	22.1.2	System Process	
22.2	Config	uring Cartonization Planning	
22.3		on of Planned Shipping Handling Units	
	22.3.1	Creation of Planned Shipping Handling Units for Outbound	
		Delivery Orders	822
	22.3.2	Creation of Planned Shipping Handling Units for Waves	823
	22.3.3	Creation of Planned Shipping Handling Units during Warehouse Order Creation	824
22.4	Manag	ring Planned Shipping Handling Units in the Warehouse	825
22.5	Summ	ary	828
23	SAP	Dock Appointment Scheduling	829
23.1	What I	s SAP Dock Appointment Scheduling?	829
	23.1.1	Business Process	830
	23.1.2	System Process	831
23.2	Config	uring SAP Dock Appointment Scheduling	832
	23.2.1	Docking Location	832
	23.2.2	Loading Points	833
	23.2.3	Appointment Management	836
	23.2.4	Integration with Embedded EWM	837
23.3	Planni	ng for Carriers	840
23.4	Summ	ary	841

24	Material Flow System	843
24.1	What Is the Material Flow System? 24.1.1 Business Process 24.1.2 System Process	844 844 845
24.2	Configuring the Material Flow System 24.2.1 Building Blocks	847 847 853
24.3	Reprocessing Telegrams Using the Material Flow System Actions	855
24.4	Summary	858
25	Integration with Other SAP Solutions	859
25.1 25.2	Integration with SAP Transportation Management and Embedded TM 25.1.1 Configuring Integration with SAP Transportation Management	860 860 862 864 865 867 877 878 879 881
	25.2.4 Safekeeping	882
25.3	Integration with SAP Manufacturing Execution	883
25.4	Summary	887
App	endices	889
A B	SAP Fiori Applications The Authors	889 903
Index		905

Index

A		Analyze Differences app	535, 539
		Application link enabling (ALE)	
ABC analysis	717	distribution model	44
execution report	719	enhanced settings	45
indicator update	720	Appointment management	830
report	718	Arrival and Departure app	74
Acceptance sampling	336	Arrival lead time	83
Access Loading Appointment app	830	Assign Bin to PSA - Warehouse app	88
Access sequence	692, 730	Assign Storage Bin to Door app	869
Accessibility	96	Asynchronous packing	44
Action definition	292	Attachments service	349
condition technique	296	Automated storage and retrieval sys	tem 84
schedule and start conditions	294	automated conveyor segment	
Action merging	293	Automated warehouse	843, 844
Action profile14	3, 214, 291	Automatic item generation	370
printing physical inventory docume	ent 524	inbound delivery	378
sample	292	inbound delivery setup	377, 378
Activity area	144, 517	outbound delivery setup	458
assign consolidation group	146	Automatic number plate reading	83
assign storage bins	146	Automatic packing generation	458
create sort sequence	146, 148	outbound delivery	459
defining	145	Automatic replenishment	466, 479
prerequisite	145	executing	480
Ad hoc counting	541	Automatic wave generation	68
Ad hoc physical inventory	510	Auxiliary packaging material	789
Ad hoc warehouse movement	482	Auxiliary product	789
Adjustment profile	179, 183	Availability group 1	20, 235, 362
Advanced production integration	609	assign	61
availability group	613	assign to storage type	
business process	610	assigning to plant/storage location	on 36
configure	613	define	
consumption	611	Available-to-promise (ATP) check	682
delivery type	613		
staging	611	В	
storage type	613		
system process	611	Backflush	182
Advanced shipping and receiving	867	BAdI	85
activate	868	Basic warehouse management	50
configure synchronization	870	Batch	260
consignment orders		change	
processing status	874, 876	characteristics	
shipping readiness		determination	
Advanced warehouse management .	50	goods movement	
Algorithm profile	818	Batch management	
access sequence	819	batch settings in EWM	
characteristics	818	configuring	
Allocation		determination in EWM	
ALV grid	574	inbound delivery	27

Batch management (Cont.)	Ca
level20	
outbound delivery2	74
restricted batch2	
Batch-neutral 10	03
Batch-specific 10	03
Bill of materials (BOM) 80	00
Bin	Ca
access type 128, 5	52 Ca
assign 50	63
capacity 1	14
denial4	78
label14	41
maximum number10	01
sorting10	06
type 18	
verification field14	
Blocking indicator	
Bonded warehouse	
stock8'	
Branch	
Buffer interval	
Bulk storage	
behavior	
indicator 3	
structure	
Business context 20	
Business partner	
customer	
deleting1	
role	
supplier	
Business system definition	
Business system group	78 Co
С	Co
Cancel Production Order Confirmation	
app64	
Capacity check indicator 1	
Capacity check, early 1	15 Co
Capacity key figure 1	
Carrier 84	
Carton42	
Cartonization planning	13 Co
automatic82	
business process8	14 Co
configuring8	17 Co
define82	
outbound delivery order item82	
outbound delivery order item	Co
grouping82	21 Co
J [J	

Cartonization planning (Cont.)
packaging specification819
pick point824
picking824
process815
process profile817
two-step picking824
Cartonization profile825
Catch weight 163, 285
inbound/outbound delivery288
master data changes286
physical inventory289
product in EWM287
profile288
tolerance163
unit of measure285
use288
Change Batch app279
Change document 328, 620
activate134
Change log
Change stock type498
Change Storage Bins app136
Checkpoints740
Class type172
Clear from PSA app631
Client
Code set
assign to plant324
Collective counting541
Collective purchase order
Communication channel
Communication point 847, 850
Company
define56
Company code
copy57
create
Compatibility packs
Completion flag (DWM)
Complex kit
Complex loading737
performing
Complex outbound process
Complex unloading
Compliance check
Compliance management
Condition
Condition determination procedure 713
Condition maintenance group
Condition record
Condition record
Contraction ration by 2 / 12

Data upload tool	Condition technique	. 296, 7	710	D	
Solotting	packaging specification				
Conditional operator 762 packaging specification 85 Confirm Repetitive Manufacturing for Handling Units app 641 storage bin sorting 86 Confirm Warehouse Task app 630 Date tyre 217 Confirmation correction 390 Date type 217 Consignment stock 20 Deatheading 546,560 Consolidation group 380, 406 batches 279 define 407 Consciling multiple ERPs 50 manually adding 408 Decision code 322 consumption 624 configuration 381 consumption bin 789 define station 381 control Cycle 620 621 define station 382 Control Cycle 621 define station 382 Control Cycle app 645 post 346 Control Key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 gorup 851<	determination	1	98	Data upload tool	85
Confirm Repetitive Manufacturing for Handling Units app storage bin sorting 86 Confirm Warehouse Task app 630 Log per pofile 217 Confirmation correction 390 bundling date types 217 Consignment stock automatic posting 499 Decentralized EWM 47, 65, 77, 80, 199, 204 Consolidation group 380, 406 batches 279 define 407 connecting multiple ERPs 50 manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption in 624 configuration 381 Consumption bin 789 define attributes 381 Control cycle 620, 621 define attributes 381 Control cycle app 647 analyze 345 Control Cycle app 645 post sexample Control Cycle app 645 post sexample Control key 334 Delivery document determination 500 Control key 34,850	slotting	7	712	initial stock data transfer	85
Handling Units app	Conditional operator	7	762	packaging specification	85
Handling Units app	Confirm Repetitive Manufacturing for			storage bin	86
Confirm Warehouse Task app 630 Date profile 217 Confirmation correction 390 bundling date types 217 Consignment stock 390 Date type 217 Consignment stock 499 Decentralized EWM 47, 65, 77, 80, 199, 204 Consolidation group 380, 406 batches 279 define 407 connecting multiple ERPs 50 manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption 624 configuration 381 raw material 626 define attributes 381 Consumption bin 789 define attributes 381 Control Cycle 620, 621 Decert processing 344 Control Cycle app 647 analyze 345 Control Cycle app 647 analyze 345 Control Cycle app 647 post 346 Control Rey segment 847, 850 Delivery mapping 82 </td <td></td> <td></td> <td>541</td> <td></td> <td></td>			541		
Confirmation correction 390 bundling date types 217 Confirmation delay 390 Date type 217 Consignment stock peadheading 546, 560 automatic posting 499 Decentralized EWM 47, 65, 77, 80, 199, 204 define 407 connecting multiple ERPs 50 manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption 624 configuration 381 raw material 626 define attributes 381 Control cycle 620,621 define station 382 Control cycle 620,621 befect processing 344 Control Cycle app 645 analyze 345 Control key 334 belivery document determination 50 Conveyer segment 847, 850 belivery document integration 82 group 851 belivery document determination 50 Core data services (CDS) 607 control message processing					
Confirmation delay 390 Date type 217 Consignment stock automatic posting 499 Decentralized EWM 47, 65, 77, 80, 199, 204 Consolidation group 380, 406 batches 279 define 407 connecting multiple ERPs 50 manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption 624 configuration 381 consumption bin 789 define attributes 381 Control Cycle 620, 621 befene station 382 Contriol Cycle app 647 analyze 344 Control Cycle app 645 post 344 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery document integration 82 Core data services (CDS) 607 control message processing 83 Core tate face (CIF) 80, 155				=	
Consignment stock automatic posting 499 499 499 Consolidation group 546,560 Decentralized EWM 47,65,77,80, 199, 279 define 407 407 connecting multiple ERPs 50 manually adding 408 408 Decision code 322 consumption 624 40 configuration 381 Consumption bin 626 620 define attributes 381 Control cycle 620,621 Defect processing 344 Control cycle - IIT app 647 647 analyze 345 Control Cycle - IIT app 647 647 analyze 345 Control key 334 Delivery document determination 500 Control key 334 Delivery document determination 500 Core data services (CDS) 607 control message processing 33 Core ata services (CDS) 607 control message processing 32 Count list 533 define number range 82 Count list 533 decument type 82 Count list 533 decument type 82	Confirmation delay	3	390		
automatic posting 499 Decentralized EWM 47, 65, 77, 80, 199, 204 Consolidation group 380, 406 batches 279 define 407 connecting multiple ERPs 50 manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption 624 configuration 381 consumption bin 789 define attributes 381 Control cycle 620, 621 Defect processing 344 Control cycle - ITI app 647 analyze 345 Control Cycle app 645 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery mapping 82 Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 <	Consignment stock				
Consolidation group 380, 406 batches 279 define 407 connecting multiple ERPs 50 manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption 624 configuration 381 consumption bin 789 define attributes 381 Control cycle 620, 621 define station 382 Control cycle potrol cycle 620, 621 Defect processing 344 Control Cycle app 645 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery document determination 500 Core data services (CDS) 607 control message processing 83 Core data services (CDS) 607 control message processing 83 Count lata 532 define number range 82 Count list 533 do		4	199		
define 407 connecting multiple ERPs 50 manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption 624 configuration 381 consumption bin 626 define attributes 381 Control cycle 620, 621 eemple 382 Control cycle 620, 621 Defect processing 344 Control Cycle app 647 analyze 345 Control Cycle app 645 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 Gore data services (CDS) 607 control message processing 83 Core data services (CIF)					
manually adding 408 Decision code 322 rule 106 Deconsolidation 380 Consumption 624 configuration 381 raw material 626 define attributes 381 Consumption bin 789 define station 382 Control cycle 620, 621 Example 382 Control cycle - JIT app 647 analyze 345 Control Cycle app 645 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 post 346 Control key 334 Delivery document integration 82 Conveyer segment 847, 850 post 346 Control key 334 Delivery document integration 82 Control flexit 360 36 36 Control messag	~ -				
rule 106 Deconsolidation 380 Consumption 624 configuration 381 raw material 626 define attributes 381 Consumption bin 789 define station 382 Control cycle 620, 621 Defect processing 344 Control Cycle - JIT app 647 analyze 345 Control Cycle app 645 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery document integration 82 Core data services (CDS) 607 control message processing 83 Core data services (CDS) 607 control message processing 82 Count data 532 define number range 82 Count data 533 document type 82 Count physical Inventory app 537, 538, 540 titem type 82 Counting 68 partner role <td>-</td> <td></td> <td></td> <td></td> <td></td>	-				
Consumption 624 configuration 381 raw material 626 define attributes 381 Consumption bin 789 define attributes 381 Continuous physical inventory 510 example 382 Control cycle 620, 621 Defect processing 344 Control Cycle app 645 post 345 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery document integration 82 Gore data services (CDS) 607 control message processing 83 Core late face (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537,538,540 item type 82 Counting 68 partner role 83 executing 476 plust and storage location					
raw material 626 define attributes 381 Consumption bin 789 define station 382 Continuous physical inventory 510 example 382 Control Cycle 620 621 Defect processing 344 Control Cycle app 645 analyze 345 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery mapping 82 Core data services (CDS) 607 control message processing 83 Core data services (CDS) 607 control message processing 83 Count data 532 define number range 82 Count bis 533 document type 82 Count list 533 document type 82 Count physical Inventory app 537,538,540 item type 82 Counting 68 partner role 83 Crate part replenishment 475					
Consumption bin 789 define station 382 Continuous physical inventory 510 example 382 Control cycle 620, 621 Defect processing 344 Control Cycle app 647 analyze 345 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery mapping 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count list 533 document type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 rexe 408	-				
Continuous physical inventory 510 example 382 Control cycle 620, 621 Defect processing 344 Control Cycle app 645 post 345 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery document integration 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537, 538, 540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Eocking Location app 833 <					
Control cycle 620, 621 Defect processing 344 Control Cycle - JIT app 647 analyze 345 Control key 334 Delivery document determination 500 Conveyer segment 847, 850 Delivery document integration 82 group 851 Delivery document integration 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537, 538, 540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 37 Create Storage Bins app 133 <td>-</td> <td></td> <td></td> <td>-</td> <td></td>	-			-	
Control Cycle - JIT app 647 analyze 345 Control Cycle app 645 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847,850 Delivery document integration 82 group 851 Delivery mapping 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537,538,540 item type 82 Count Physical Inventory app 537,538,540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 ruse 408 Create Docking Location app 833 Delivery qu					
Control cycle app 645 post 346 Control key 334 Delivery document determination 500 Conveyer segment 847,850 Delivery document integration 82 group 851 Delivery mapping 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80,155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537,538,540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split </td <td></td> <td></td> <td></td> <td></td> <td></td>					
Control key 334 Delivery document determination 500 Conveyer segment 847,850 Delivery document integration 82 group 851 Delivery mapping 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80,155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537,538,540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 polivery split 71, 452 business process 672 man					
Conveyer segment 847,850 Delivery document integration 82 group 851 Delivery mapping 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80,155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537, 538, 540 item type 82 Counting 68 partner role 83 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Storage Bins app 133 Delivery quantity 374 Create Storage Bins app 133 Delivery split 71, 452 business process 672 manual	, 11				
group 851 Delivery mapping 82 Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537, 538, 540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery quantity 374 Create Storage Bins app 133 Delivery split 71 system process 672 manual 72 work center 677 quantity 4					
Core data services (CDS) 607 control message processing 83 Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537, 538, 540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery settings 80 Cross-docking 672 ronfigure 71 system process 672 manual 72 work center 677 quantity 455					
Core Interface (CIF) 80, 155 data type 82 Count data 532 define number range 82 Count list 533 document type 82 Counting 68 partner role 83 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery split 453 C					
Count data 532 define number range 82 Count list 533 document type 82 Count Physical Inventory app 537,538,540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery split 453 Custom warehouse procedure 881 determination 613					
Count list 533 document type 82 Count Physical Inventory app 537, 538, 540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613	• •				
Count Physical Inventory app 537,538,540 item type 82 Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customs handling 879 outbound delivery 862, 864 <td></td> <td></td> <td></td> <td></td> <td></td>					
Counting 68 partner role 83 Crate part replenishment 475 plant and storage location 84 executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573				* *	
Crate part replenishment475plant and storage location84executing476Delivery number409Create Batch app279reuse408Create Docking Location app833Delivery quantity374Create Loading Appointments app830process code453Create Storage Bins app133Delivery settings80Cross-docking671Delivery split71, 452business process672configure71system process672manual72work center677quantity455Cross-process definitions205Delivery typeCross-process settings205delivery split453Custom warehouse procedure881determination613Customer profile206Delivery-based integration862Customs handling879outbound delivery862, 864Cycle counting182, 512Demo data573indicator512Deployment46parameters513Determination procedure692preprocessing766Difference analyzer534					
executing 476 Delivery number 409 Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customs handling 879 outbound delivery 862 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 pre					
Create Batch app 279 reuse 408 Create Docking Location app 833 Delivery quantity 374 Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692					
Create Docking Location app833Delivery quantity374Create Loading Appointments app830process code453Create Storage Bins app133Delivery settings80Cross-docking671Delivery split71, 452business process672configure71system process672manual72work center677quantity455Cross-process definitions205Delivery typeCross-process settings205delivery split453Custom warehouse procedure881determination613Customer profile206Delivery-based integration862Customs handling879outbound delivery862, 864Cycle counting182, 512Demo data573indicator512Deployment46parameters513Determination procedure692preprocessing766Difference analyzer534					
Create Loading Appointments app 830 process code 453 Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
Create Storage Bins app 133 Delivery settings 80 Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
Cross-docking 671 Delivery split 71, 452 business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
business process 672 configure 71 system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
system process 672 manual 72 work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
work center 677 quantity 455 Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
Cross-process definitions 205 Delivery type Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
Cross-process settings 205 delivery split 453 Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534				-	455
Custom warehouse procedure 881 determination 613 Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534	=				
Customer profile 206 Delivery-based integration 862 Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
Customs handling 879 outbound delivery 862, 864 Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
Cycle counting 182, 512 Demo data 573 indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534	=				
indicator 512 Deployment 46 parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534				outbound delivery	862, 864
parameters 513 Determination procedure 692 preprocessing 766 Difference analyzer 534					
preprocessing					
	parameters	5	513	Determination procedure	692
	preprocessing	7	766	Difference analyzer	534
warehouse level518 reason for differences	warehouse level	5	518	reason for differences	522

Data upload tool 85 initial stock data transfer 85 packaging specification 85 storage bin 86 Date profile 217 bundling date types 217 Date type 217 Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 define number range 82 partner ro	D
packaging specification 85 storage bin 86 storage bin sorting 86 Date profile 217 bundling date types 217 Date type 217 Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define attributes 381 define station 382 example 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type	Data upload tool85
packaging specification 85 storage bin 86 storage bin sorting 86 Date profile 217 bundling date types 217 Date type 217 Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define attributes 381 define station 382 example 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type	initial stock data transfer 85
storage bin sorting 86 Date profile 217 bundling date types 217 Date type 217 Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery quantity	
Date profile 217 bundling date types 217 Date type 217 Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 decourage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery split 71,	
Date profile 217 bundling date types 217 Date type 217 Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 decourage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery split 71,	
bundling date types 217 Date type 217 Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 381 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 jeartner role 83 plant and storage location 84 Delivery quantity 374 process code 453 Delivery split	
Deadheading 546, 560 Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 deciment type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity </td <td></td>	
Decentralized EWM 47, 65, 77, 80, 199, 204 batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 control message processing 83 data type 82 define number range 82 define number range 82 deciment type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72	Date type
batches 279 connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 define number range 82 deciment type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72	Deadheading 546, 560
connecting multiple ERPs 50 Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 deciment type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type 461	
Decision code 322 Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split <t< td=""><td>batches 279</td></t<>	batches 279
Deconsolidation 380 configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	connecting multiple ERPs50
configuration 381 define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	Decision code
define attributes 381 define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery settings 80 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	Deconsolidation
define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	configuration381
define station 382 example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	define attributes 381
example 382 Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
Defect processing 344 analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	•
analyze 345 post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	•
post 346 Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	1 0
Delivery document determination 500 Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	•
Delivery document integration 82 Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	
Delivery mapping 82 control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
control message processing 83 data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
data type 82 define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
define number range 82 document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	
document type 82 item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	
item type 82 partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
partner role 83 plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	item type82
plant and storage location 84 Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split delivery split 453	
Delivery number 409 reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
reuse 408 Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
Delivery quantity 374 process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	•
process code 453 Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
Delivery settings 80 Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
Delivery split 71, 452 configure 71 manual 72 quantity 455 Delivery type delivery split 453	
configure 71 manual 72 quantity 455 Delivery type delivery split 453	, .
manual 72 quantity 455 Delivery type delivery split 453	2 1
quantity 455 Delivery type delivery split 453	
Delivery type delivery split	
delivery split453	. ,
* *	delivery split453
MCCCITICALIOIL	determination
Delivery-based integration	

Difference analyzer tool	519	Exception code (Cont.)	
Dimension indicator	710	maintain process parameters	264
Dimension ratio	187	profile	261
Direct distance	300	usage	265
Direct integration	860	Exception handling	258
Direct labor task		radio frequency	
Direct replenishment 466,	477	Exclusive lock indicator	
executing		Executed workload	768, 769
storage type settings		Execution information	
Display Storage Bins app		Execution priority	552
Distance based on network		Execution step	
Distribution center		Execution time indicator	
Distribution equipment		Expected goods receipt	
external process steps		Extended material number	
Distribution model		Exterior material married	
generating		F	
Docking location		<u>r</u>	
define		Factory calendar	519
supply chain unit		Field catalog	
Document batch		Field catalog	
define process step			
		profile	
settings		Field group	
Document category		Filling level	
Document header		Findings	
Document item		Fire containment section	
Document type 69, 359, 404,		First article inspection	
define		First in, first out (FIFO)	
mapping		Fiscal year variant	
outbound delivery		Fixed bin	
Document type mapping		Fixed bin storage type	
Dynamic modification	68	Fixed correlation	182
		Follow-up action	
E		predefined in SAP S/4HANA	325
		usage decision	
Element group 194	, 195	Formula editor	761
Elements	194	Forwarding order	864
Embargo	878	Freeze book inventory indicator	527
Embedded EWM	46	Freight order	862
attachments addition	601	Freight unit	862
Employee performance	770		
Employee workforce	749	G	
Empty bin			
rule	106	Global network	301
search	188	define using travel distance	301
Engineered labor standards 568,	763	Global trade item number (GTIN) .	
direct		Global transport label (GTL) number	
Enterprise services		Goods issue	
Euclidean metric		automatic posting	614
European Article Number (EAN)		batches	
Exception code			
	. 587	consumption posting	614
configuration elements		consumption postingdetermine work center	
configuration elementsdefine262,	260	consumption postingdetermine work centerkit components	441

Goods issue (Cont.)		Handling unit (HU) (Cont.)	
posting	450	simple	220
reverse		type group	
stock split	284	types	
unplanned posting		warehouse task	
Goods movement		Hazardous substance management	
BAPIs and APIs	645	Hazardous substance master	
synchronous		Human resources (HR)	
Goods Movement app			
Goods movement control		I	
availability group			
mandatory		Identification point	113
posting change bin		Import declaration	
stock type role		Inbound delivery	
Goods receipt		catch weight	
batch		2	
		counting	
block		create document	
control		creating	
expected integration		define delay	
from embedded EWM		goods receipt	
from SAP S/4HANA		header and item	
kanban		mapping	
partial		notification	
posting		predetermined serial number	
stock split	283	serial number	308
synchronous	635	split	
trigger posting		stock type determination	362
Graphical warehouse layout	603	Inbound processing	353, 354
bin	604	check in	368
object category	604	configuring	359
Gross weight	167	predetermined serial number	313
		putaway	380
H		storage control	
		transportation unit	
Handling unit (HU)	190, 219, 412	unloading and goods receipt	
additional features		Inbound sorting	
compartment		Incompleteness check	
configuration settings		Indirect integration	
confirm task		Indirect labor task	
confirming		configure	
execution view		create	
for processing		execute	
header data		Inspection document	
item data		-	
lahels		mixed	
		Inspection lot	
number		create	
number range		inspection rule	
packaging view		internal inspections	
packing enhancements		summary	
printing		Inspection object type	
queue		activate	
re-creation	643-645	aenerate	321

Inspection object type (Cont.)		Kitting	795
warehouse level	322	assembled	801
Inspection rule	326	availability check	801
change document	328	business process	797
determination	329	create kit automotically	802
master data	326	creation	805
Intercompany stock transfer	59	goods issue	801
Interface messages	290	goods issue zone	808
Intermediate warehouse		goods receipt	801
Internal exception code	261	header	796, 808
Internal goods movement	232	kit header	803
Internal inspection	339	processes	796
quality component configuration	340	production order	799
Internal process		reverse kitting	809
code	260	simple	
steps	254	system process	
Internal stock transfer		work center	
document	499		
process		L	
Internal warehouse process	463		
International Location Number (ILN)		Labor management	749, 751
Interplant stock transfer		activate	
Intracompany stock transfer		attributes	755
Inventory management (IM)		business process	750
Invoice		deactivate	
Item category	360	execute	
Item conversion to zero		formulas and conditions	
Item filter	242	plan	
Item type 360,		settings	
create		system process	
mapping	361, 406	warehouse level	
ITS mobile		Landscape transformation	
		Last in, first out (LIFO)	
I		Layout-oriented storage control	
,		256, 358	•
Just-in-time (JIT)		configure	257
call process	647	Legal control	
•		LE-TRA component	
K		License auditing	
		License plate check	
Kanban	597, 633	Light-based indicator	
Kit component	,	Limit value	
picking		Load or Unload Freight Order app	
Kit to order		872, 874	
during picking		Loading 252, 403	3 448 627
executing		door and staging area determination	
packing work center		yard management	
process		Loading appointment	
specific work center		create number range	
Kit to stock		integration	
production order	,	means of transport	
VAS order		time slot	
Y 210 OTACT	300		

Loading direction	
Loading point 8	
arrival lead time	
maintained data	
restricted planning period	
supply chain unit	83
time slot	83
Loading task	42
Loading warehouse task	42
Logical system	7
assigning to business system group	7
assigning to client	7
dummy	
Logistics execution delivery 3	53, 39
Logistics unit of measure	28
Low-stock check	51
M	
Maintain Docking Location app	83
Maintain Follow-Up Actions app	
Maintain Indirect Labor Tasks app	
Maintain Packaging Specification app	20
Maintain Performance Documents app .	
Maintain Planned Shipping HUs app	
Maintain Resources app	
Maintain Storage Bin app	
Maintain User Settings (Radio Frequency	
app	
Manage Quality Info Records app	
Manhattan metric	
Manufacturing execution system (MES)	
integration	88
MES-driven staging 8	
Manufacturing order	
Manufacturing order status	
Master data 1	
integration	
product master	
Material flow system	
actions	
asynchonous function module	
building blocks	
business process	
communication channel	
communication point	
communication pointcommunication point type	84
communication pointcommunication point type	84 47, 85
communication pointcommunication point type	84 47, 85 85
communication pointcommunication point type	84 47, 85 85 85

Material flov	w system (Cont.)	
integratio	n	853
	n with SAP EWM	
	ented storage control	
maintain	resources	852
putaway		854
•	ypes	
	rpe	
	ocess	
	up	
Material ma	-	
	anagement	326
	4 <i>NA</i>	
	nber	
	nsport860,	
	g material	
	nt service	
	THE BET VICE	
	1	
	ger	
	e distribution 673,	
	king	
	ugh	
	eue	
0 1	S	
Migration		, ,
0	nventory completeness	Q.
	VM	
	v 1 v 1	
	n	
	y system	
	e product data	
	pjectsbjects	
-	ge	
wiixeu stofa	Rc	11(
N		
Negative sto	ock	118
U	lling unit	220
_		
New implem		
_		
	election criteria	
define	CICCLIOII CITICITA	587

910

Node (Cont.)	Outbound delivery order (Cont.)
hierarchy tree574	reference document412
object class581	status411
profile582	tabs411
variant580	Outbound Delivery Orders (Pickup) app 432
Normal time	Outbound processing399
Number range 454, 728	business process400
assign454	complex movements402
create206	document flow 401, 508
intervals407	process-oriented252
setup 408	source bin421
	steps
0	storage control252, 402
	system process401
Object category 581	
Object class method 584	Outbound processing configuration 403
Offsetting rule	assign item type to document type 406
One system concept80	consolidation group406
Opportunistic cross-docking 671, 678	
<i>EWM-triggered</i> 678, 680	item type405
inbound-driven680	Overtime
outbound-driven680	
Optimum destination storage bin 722	
Order reduction417	
Order to cash	11
Order-related replenishment 472	
Organizational structure53	·
client54	1 3
company55	
company code56	· ·
<i>example</i> 53	
plant57	
storage location59	
warehouse60	3
Outbound delivery 400, 402, 410, 455	· ·
catch weight289	
change order quantity417	- ·
creating 401, 414, 804, 846	-
direct 416	5
kit components799	
mapping405	
reference to sales order 415	
SAP S/4HANA mapping416	
split452	•
Outbound delivery order 402, 410	
assign to waves 600	
business partner412	
CDS view	9
create	3
create warehouse task	3
delivery group413	
item 414	product group783

Packaging specification (Cont.)		Physical inventory (Cont.)	
reverse kitting	809	periodic	510
stock removal	426	planning	500
structure	193	posting and reconciliation	500
value-added services	785	printouts	53
Packed goods	674	process	509, 52
Packing 251, 401,	403, 427, 428	processing	529
outbound process		putaway	51
work center		radio frequency	
Packing group	224	sample-based	
Packing instructions		tolerance limits	
distribute from remote ERP		Physical inventory configuration	
remote ERP		area settings	
validate	201	assign procedure	
Packing profile		control settings	
Packing proposal		define reasons/priorities	
process		embedded EWM warehouse set	
Pallet		storage bin check	-
Pallet algorithm		warehouse number settings	
Pallet storage		Physical inventory document	
behavior		create	
Paper-driven counting		difference analyzer	
Parallel inventory management		key fields	
Parking space		number range	
Partial goods issue		printing	
Partial issue		processing	
Partial pick goods		status	
Partial picking		structure	
Partner processing		Physical receipt	
Partner profile		Physical warehouse	
Partner role		Pick denial	
Party entitled to dispose		activate	
Performance amount		configure	
Performance document		example	
create		exception code	
HR system		Pick from goods receipt	
Performing entity		Pick HU	
Periodic physical inventory		automatic creation	
Personal fatigue and delay factor		create	
Physical inventory		kitting	*
adjust quantity		parameters	
area		Pick list	
completeness migration		Pick List app	
continuous		Pick point	
count data		Pick, pack, and pass	
		activity area	
countingcycle counting		assign bins	
document number		configure	
executing		system-controlled	
interval		user-controlled	
migration tool		warehouse order creation rule	
paper-driven counting		Picker-driven replenishment	
paper arrest coulding		directive picinoninicili	ro/, T/.

Picking	251, 403, 427, 627
denial	433
handling differences	439
physical	
Picking cancellation	436
handling unit	
outbound order	
partial	
reserved stock	
stock ID creation	
warehouse process type .	
Pilferable	
Plan Doors (Loading Point) a	
Plan Workload app	
Planned cross-docking	
Planned replenishment	471
item	
Planned shipping HU	
automatic creation	820
create	820
delete	826, 827
deletion	827
managing in warehouse	
number range interval	
outbound delivery order in	
packaging specification .	
prefix	920
search	
selection criteria	
simulate	
warehouse order creation	
wave	
Planned workload	
generate	
simulation	768
Plant	57
assign to company code .	59
assign to warehouse	61
create	58
Plant maintenance supply .	622
Post Consumption - Product	
Post Differences app	
Post goods movement	
automatic putaway	
Post Goods Movement app	
Post Processing Framework	
291, 375, 413, 429, 615, 69	
action profiles	
application area	
assign to freight order	
BAdI call	
configure	291

Post Processing Framework (PPF) (Cont.)
execute in embedded EWM298
handling unit label227
printing290
printing physical inventory document 524
profile743
settings291
Post Unplanned Goods Issue app456
Posting change 364, 489, 589
basic settings
embedded EWM489
exception code492
input values493
process
SAP S/4HANA489
warehouse request settings492
with warehouse request492
without warehouse request
display change documents
Preprocessing
execute
header settings766
Presampling process
quality component configuration
Presentation profile654
Print Inventory List (For Fire Department)
Print Inventory List (For Fire Department) app597
Print Inventory List (For Fire Department) app597 Print Physical Inventory Documents app 524
Print Inventory List (For Fire Department) app
Print Inventory List (For Fire Department) app
Print Inventory List (For Fire Department) 597 app
Print Inventory List (For Fire Department) 597 app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208
Print Inventory List (For Fire Department) 597 app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453
Print Inventory List (For Fire Department) 597 app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution
Print Inventory List (For Fire Department) 597 app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 568
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 568 Process indicator 668
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 Process indicator 668 Process indicator 621 header level 218
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 Process indicator 668 Process indicator 621 header level 218 item level 218
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 Process indicator 668 Process indicator 218 item level 218 Process Loading Appointment app 831
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 Process indicator 668 Process indicator 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 Process indicator 668 Process indicator 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents app 533
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 Process indicator 668 header level 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents app 533 Process profile 218, 817
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 skipping warehouse orders 668 Process indicator 668 header level 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents 39 app 533 Process profile 218, 817 create for document item 218
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution skipping warehouse orders 668 Process indicator header level 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents app 533 Process profile 218, 817 create for document item 218 define 817
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 skipping warehouse orders 668 Process indicator header level 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents app 533 Process profile 218, 817 create for document item 218 define 817 determine 817
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 skipping warehouse orders 668 Process indicator 218 header level 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents 3pp app 533 Process profile 218, 817 create for document item 218 define 817 Process Warehouse Task app 633
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 skipping warehouse orders 668 Process indicator header level 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents app 533 Process profile 218, 817 create for document item 218 define 817 Process Warehouse Task app 633 Process Warehouse Tasks – Picking app 432
Print Inventory List (For Fire Department) app 597 Print Physical Inventory Documents app 524 Print Storage Bins Labels app 142 Priority 520 Process code 208, 375 parameters 208 profile 208, 209 profiles 453 Process execution 668 skipping warehouse orders 668 Process indicator 218 header level 218 item level 218 Process Loading Appointment app 831 Process Physical Inventory Documents 3pp app 533 Process profile 218, 817 create for document item 218 define 817 Process Warehouse Task app 633

Processor 754
settings755
Process-oriented storage control 249, 254,
358, 787
define255
external process steps254
internal stock movement253
outbound process steps251
storage process definition255
warehouse process256
Product group 177, 779
type
Product in location indicator 521
Product master
additional GTINs/EANs view
classification view
packaging data view173
Properties view173
-
slotting view
storage type data view187
storage view
unit of measure view169
view 165
warehouse data view181
Product migration tool89
important fields88
Product putaway profile 107
Product safety and stewardship 180
Product task
Product valuation data 520
Product verification 444
Product-driven flow-through 676
Production material request 611, 615
document type616
item type 616
Production Order Confirmation app 639
Production receipt
Production staging area 357, 401, 846
Production supply area 542, 616, 618
assign bin
assign storage bin
automatic replication
creating475
_
define
in SAP S/4HANA
replicate
warehouse stock
Programmable logic controller
<i>fields</i> 848

Properties view	166
fields	166
Propose indicator	527
Purchase order	354
Push deployment	682
Putaway 380, 560,	769
blocked	398
complex	
control indicator	384
delay	
delay window	682
embedded EWM	383
physical inventory	511
rules	106
warehouse task231,	383
Putaway control	105
additional stock forbidden	107
check maximum quantity	113
confirm putaway	105
handling unit (HU) type check	106
ID point	
indicator	709
mixed storage	110
quant	
search rule empty bin	113
split during putaway	108
stock level	114
storage section check	107
threshold addition	109
warehouse task generic	109
Putaway storage control indicator	109
Putaway strategy	391
addition to existing stock	393
bulk storage	397
empty storage bin	394
fixed storage bin	392
general storage	393
manual entry	392
near fixed picking bin	394
pallet storage	395
-	
Q	
-	

QIN scheduler	77
QM integration	67, 68
QOUT scheduler	77
qRFC monitor	585
Qualified entry	154
Quality adjustment	374

Quality inspection 320	Radio frequency (RF) fra
after goods receipt 337, 339	business process
engine 344	configure
externally procured goods 334	create screens
group 163, 178	define presentation de
in-house produced goods338	direct navigation
internal 339	enhancements
process 330, 347	GUI
recurring 340	log off
returns 342	logon
scenarios 333	menu manager
warehouse task creation 337	modifing transaction
without inspection rules 343	navigation
Quality management	personalization profil
basic settings 321	process execution
default work center325	screen manager
inspection process	system process
master data 326	virtual navigation
SAP S/4HANA integration	Rearrange Stock app
Ouant	Rearrangement
alternative unit of measure 112	configuring
goods receipt date110	document type
shelf-life expiration111	optimum destination
stock certificate number111	process
Quantity adjustment 208, 374	warehouse process ty
Quantity adjustment profile	Reason
Quantity classification 103, 189	differences
Quantity determination rule	physical inventory
Quantity offsetting profile	physical inventory pro
Quantity offsetting profile210 Quantity role	settings
Quarantine stock	Receiving
Queue	Recipient-driven flow-th
	Record Warehouse Defe
access sequence550	
assign sequence555	Recount
assign to resource group553	change assignment
define	queue
defining	Recurring inspection
determination	quality component co
determination criteria549	Reference document
type548	Reference document cat
type reasoning549	Reference document pro
type sequence	Repair serial number
Queued remote function call (qRFC)	Repetitive manufacturin
control settings79	Replenishment
	activate for storage ty
R	basic settings
	minimum and maxim
Radio frequency (RF) 540, 545, 556	quantity
predetermined serial number 314	request
serial numbers 314	storage type level sett
Radio frequency (RF) framework 649	strategy
assign presentation device 653	warehouse request

uency (RF) framework (Cont.)	Replenishment control	122
process651	level	122
e652	tolerance	123
rreens657	Reprocess Goods Movement app	639
resentation device653	Reprocessing telegram	
ıvigation664	retry status	
ments669	trigger	
650	Request document	
	Reserve storage type	
	Resource	
anager654	control parameters	
g transaction 657, 658, 663	define	
on	execution priority	
lization profile654	horizontal velocity	
execution666	position management	
nanager655	resource group	
process	type	
avigation666	vertical velocity	
Stock app723	Resource execution constraint	,
ment 707, 720	activate	567
ing720	assign	567
nt type721	configure	566
n destination storage bin722	control	566, 568
722	define	566
ise process types720	Resource management	237, 545
520	business process	546
ces522	configure	548
inventory521	system process	547
inventory procedure522	Resource type, bin access	129
	Restricted planning period	
611	Returns delivery	
driven flow-through675	Returns inspection	
rehouse Defect app344	warehouse scenarios	
530	Returns order	
assignment530	Reverse kitting	
531	prerequisites	
inspection	steps	
_	Role	010
component configuration	I I	
	Automatic Storage Retrieval	100
document categories880	(Material Flow Control)	
document profile216	Doors	
al number	Identification point	
manufacturing634	Pick point	
ment 122, 189, 463	Rough-bin determination	
for storage type 467	Rounding rule	168
tings466	Route	203
m and maximum quantities 469	scheduling	203
<i>'</i> 189, 474, 712		
253	S	
type level settings468		
464	Safekeeping	882
ıse request470	configure	

l		Sales order	
	122	creating	
	123	outbound delivery	
ement app	639	Sample-based inventory	
	855	create physical inventory document	
	857	download results	
	856	download sample	
	330	Samples and items	
		Sanctioned party list	878
	545, 852	SAP Advanced Planning and Optimization	
	554	(SAP APO)	
	554	SAP Business Client	838
	552	SAP Customer Relationship Management	
		(SAP CRM) 681,	
nt	551	SAP Dock Appointment Scheduling	726,
	553	734, 747, 829	
	551	business process	830
		configure	
nstraint	126, 565	integration with embedded EWM 837,	
	567	planning for carriers	
		reference document category	
	566	system process	
	566, 568	warehouse door	838
		SAP Global Trade Services (SAP GTS)	416
t	237, 545	SAP Global Trade Services (SAP GTS)	
	546	integration	
	548	approval	881
	547	blocked delivery	878
ess	129	compliance check setup	
riod	835	export control check	878
	376	lock	879
	342	scrapping	
s	342	transit procedure	879
	342	SAP GUI for HTML	669
	809	SAP Manufacturing Execution	883
	809	SAP Process Integration (SAP PI)	860
	810	SAP S/4HANA	
		conversion and migration	
Retrieval		Customizing206,	
ntrol)	100	implementing embedded EWM	75
	100	inbound processing	354
	99	integration	859
	99	master data	160
ion	473	simplifications	402
	168	SAP S/4HANA Retail	673
	203	SAP S/4HANA Supply Chain for extended	
	203	warehouse management	38
		SAP Supply Chain Management	
		(SAP SCM)	
		route	203
	882		

SAP Transportation Management	
(SAP TM)	 726
agreement	
integration with SAP EWM	 859
transportation planning	
SAP Transportation Management	
(SAP TM) integration	 860
configuration in SAP EWM	
configuration in SAP TM	 860
configure	
SAP Warehouse Insights	
SAPConsole	
Schedule condition	
schedule automatically	
Scrapping	
Screen manager	
customization UI	
define sizes	
SD route	
Search scope	
Section key	
Serial number	
delivery	
document item level	
embedded EWM vs. SAP S/4HANA	
harmonized profile	
inventory management	
management	
management in embedded EWM	 311
predetermined	
provisional	
radio frequency (RF)	
requirement level	
requirements	
warehouse monitor	
warehouse number level	
warehouse task	
warehouse-dependent	
work center	
Serial number profile	
warehouse-dependent	
warehouse-independent	 305
Serialized Shipping Container Code	
(SSCC)	
define number range	
Service profile	
Set Kanban Container Status app	 634
Shift	 758
Shift factor	 757
Shift management	 757
breaks	
creating shifts	 757

Shift management (Cont.)
master data757
shift sequence758
Shipping and receiving725
business process726
compatibility731
configure728
control parameters729
deactivating732
door activity728
,
goods issue posting450
goods movement730
loading/unloading736
settings728
system process727
TU activity727
vehicle activity727
Shipping cockpit 729, 747
executing yard operations748
monitoring838
planning yard operations747
Shipping Cockpit app460
Shipping Cockpit Execution app748
Shipping Cockpit Planning app747
Shipping handling unit (HU)813
Ship-to party215
Simple loading736
Simple unloading 370, 737
Simulation
Skip request 65
Slotting 185, 707
activating planned values717
bin type determination187
condition element713
configuring709
index721
index zero 723
,
indicator716
performing715
process
process screen715
process steps714
run statuses715
simulating714
Slotting view
fields 185
status185
Smart form
handling unit227
warehouse order247
Snapshot management865
Sort rule240

Special activity indicator	691	Stock removal control (Cont.)
Special stock	116	stock on resource	117
Split delivery		stock removal rule	119
item	818	Stock removal control indica	tor 711
Split quantity		Stock removal execution	429
rounding	115	pick list	429
Stage for Production app	631	RF	431
Staging 252, 40	3, 624, 627	SAP Fiori	432
crate parts	625	Stock removal strategies	679
pick parts	624	Stock removal strategy	423
release order parts	624	customer-specific strategy	427
schedule	625	example	426
Staging area	142	first in, first out (FIFO)	423
assign to door	144	fixed bins	
defining	142	large/small quantities	426
determine	448	last in, first out (LIFO)	425
Staging area group	143	partial quantities first	426
Standard Carrier Alpha Code (SCAC) .	733	shelf-life expiration date	
Standard counting	541	strict FIFO	424
Standard time	763	Stock room management	48
Standard warehouse		Stock transfer	. 401, 499, 634, 846
storage behavior	102	just-in-time call	601
Start condition	296	warehouse request	500
Status management	209	Stock transport order	59
Status profile	209	Stock type	
Stock	362, 505	change	
counting	506	configure	363, 613
Stock comparison	535	create new	882
post differences	536	description	366
Stock determination		mixed indicator	116
Stock identification	113, 279	nondependent	121
number	282	non-location-specific	363
options	281	Stock usage	589
splitting stock	283	Stocking	96
utilizing in EWM	282	Storage	180
Stock migration	90	Storage bin	86, 124
Stock migration tool	90	access type	128
Stock movement	57	assign fixed bins	137, 138
Stock removal	251, 418	assignment change log	595
control indicator	422	bin definition	131
rules	119, 423	bin type rule	710
search sequence	421	change document	139
sort rule	424	change documents	134
strategy	423	change log	138, 595
warehouse task	419, 420	copy and print	598
Stock removal control	117	embedded EWM	125
confirm removal	117	executing sorting	
HU (HU) picking control	118	geographical coordinates	
negative stock	118	identifier	129
pick point active		increment	131
rough bin determination		manual creation	
round whole unit	119	mass creation	132

Storage bin (Cont.)	Storage type (Cont
master 124	goods movemei
migration90	handling unit (F
modifying 134	level
parameters 126	level of availabl
printing labels141	number of bins
search 388	product movem
sections	putaway contro
settings 124	replenishment c
sorting 136, 592	role
storage bin upload133	search sequence
structure 124, 129, 130	stock removal c
structure example 131, 132	Storage type data
template 131	fields
<i>type</i> 128, 388, 389	Storage type deter
type determination	inbound process
verification127	outbound proces
verification field140	Storage type group
Storage conditions 162, 177	Storage type-speci
Storage control	define using rep
	, ,
internal process	define using tra Storage view
outbound process	
Storage group	fields
Storage indicator	Strict FIFO
Storage location	Subtotal filter
assign to warehouse61	Supply chain unit
define60	Synchronous good
map614	assign remote f
mapping364	destination .
options	create
Storage parameters	errors
Storage process	new additions
external step controls255	System conversion
Storage quantity711	System profile
key settings711	System-guided by
minimum/maximum711	System-guided pio
Storage section	System-guided pro
check 387	queue
<i>create</i> 123	selection
inbound processing 386	semi-system-gu
indicator 709, 717	
section search387	T
Storage type 97, 124, 629	
available quantity103	Table
behavior 102	/SCWM/DB ITE
capacity update102	Task execution
default distance 104	Task interleaving
define 98, 393	queue type sequ
example97	Telegram
external process steps 104	custom processi
fixed bins 101	reprocessing
general settings98	resending
J	. cocuiiig

Storage type (Cont.)	
goods movement control	120
handling unit (HU) requirement	
level	
level of available quantity	
number of bins	101
product movements	
putaway control	
replenishment control	
role	
search sequence	
stock removal control	
Storage type data	
fields	187
Storage type determination	204
inbound processing	
outbound processing	
Storage type group	
Storage type-specific network	
define using reports	
define using travel distance	301
Storage view	177
fields	177
Strict FIFO	424
Subtotal filter	242
Supply chain unit	70, 156
Synchronous goods movement	495
assign remote function call	
destination	496
create	495, 496
errors	639
new additions	498
System conversion	
System profile	
System-guided by queue	
System-guided picking	
System-guided processing	
queueselection	
selectionseni-system-guided processing	
semi-system-guided processing	558
<u>T</u>	
Table	
/SCWM/DB_ITEMSPL	
Task execution	568
Task interleaving	560
queue type sequence	560
Telegram	
custom processing	
reprocessing	
r	

Telegram (Cont.)	Transaction (Cont.)
simulation 855	
Test RF Environment app668	/SCWM/MIG_PRODUCT 88
Text profile211	/SCWM/MON 314, 339, 370, 419, 494,
Text type211	572, 583, 586, 703, 757, 758, 769, 825, 854,
Third-party logistics provider 865	855, 866
Time slot 834	/SCWM/PACK 282, 428, 442
Tolerance 518	/SCWM/PACKSPEC 196, 201, 223, 785, 819
Tolerance group163	
assigning to users 520	
catch weight287	
define 518	
difference analyzer 519	
posting differences 519	
recounting 520	
Transaction	/SCWM/PRDO 313, 410, 419, 451, 461
/SAP APO/MAT1679	
/SAPAPO/MAT1	
/SCMB/PRR1754	
/SCMB/SCUMAIN156	
/SCMTMS/LOC3868	•
/SCPR20	, ,
/SCTM/RGINT 203	, , -
/SCWM/ADHU237, 483	
/SCWM/ADPROD	
/SCWM/BINMAT 102, 137, 139, 469	
/SCWM/CANPICK437	
/SCWM/CICO	
/SCWM/DCONS	
/SCWM/ERP STOCKCHECK535	
/SCWM/EXCUSERID261	
/SCWM/FBINASN137	
/SCWM/FBINDEL138	
/SCWM/FD 452	
/SCWM/FIXBIN LABEL 141	
/SCWM/GCMC714	
/SCWM/GR375	
/SCWM/GWL603	_
/SCWM/ILT	
/SCWM/IM ST 501	
/SCWM/IPU85	
/SCWM/ISU85 /SCWM/LGNBP71	· · · · · · · =
•	· · · · · · · · · · · · · · · · · · ·
/SCWM/LM_FE761	·
/SCWM/LOAD 450, 736, 737	<u> </u>
/SCWM/LS01 124, 132	
/SCWM/LSO2 132, 134, 257	
/SCWM/LS03	•
/SCWM/LS10	•
/SCWM/LS11	, , , =
/SCWM/LX45	·
/SCWM/MAT1 80, 160, 165, 385, 789	/SCWM/VAS_KTS 800

.. 855

Transaction (Cont.)		Transaction flow (Cont.)	
/SCWM/VASEXEC	778, 807	define presentation profile	658
/SCWM/VEH36	9, 735, 743	define presentation texts	659
/SCWM/WAVE 685, 69	7, 702, 703	define steps	659
/SCWM/WAVETMP	689	define validation objects	659
/SCWM/WM_ADJUST	536	define validation profile	660
/SCWM/WM_BATCH_MAINT	266	logical transaction step flow	
/SCWM/YM_DOOR_BIN		Transit procedure	
/SCWM/YMOVE		assign reference document categories	880
BD54	76	inbound delivery	879
BD97	77	Transit warehousing	864
BP 15	7, 158, 840	Transportation cross-docking	678
BUPA DEL	159	Transportation unit (TU) 402, 44	19,674,
BUPA PRE DA	159	732, 862	
 CFM1	200	control parameters	729
CFM2	201	creating	
CL01	274	header attributes	733
CL02	268	profile	729
CO02	616	sample	
LPK1	621	statuses	735
MB1B	489	tabs	734
MB51	535	Travel distance	299
MIGO	59, 489	Travel distance calculation	298
MM01	160	embedded EWM	302
MSC1N	266	evaluation	300
NWBC	832, 838	horizontal distance	303
PK05	618	planning	
POP1	200	settings	
QA32	331	vertical distance	
QPC1		Trigger communication point	
QPC2	347	Two-step picking1	
SCPR20	738, 739	activate	
SE38		configuration	
SE51	656	process	
SFW5	613	relevance	
SM3682	2, 824, 837	sequence	700
SM37			
SM59	76	U	
SMARTFORM	141	9	
SMQ1	585	Unified package building	
SMQ2		profile	229
SMQS	77	proposals	230
SPPFCADM 291, 29		Unit of measure view	
VCH1	275	Unload Transportation Units app	
VHAR		Unloading3	
VL_MOVE		process-oriented storage control	
VL60		Unpacked goods	
Transaction flow		Unplanned replenishment	
define application parameter	658	Unused stock	
define function code catalog		Usage decision	
define function code profile		follow-up action	
define inter-transaction flow		QM in embedded EWM	
-			

Usage decision (Cont.)	Vehicle	732
quality management in SAP S/4HANA	. 331 <i>create</i>	735
User 54,		829
User status profile, define	. 127 Verification profile6	661
	determination rules6	562
V	VERP material type 1	190
	Version control	. 65
Value-added services (VAS)	. 773	
activate order management	. 780 W	
auxiliary products	. 789	
business process	. 774 Warehouse 60, 61, 2	298
configure	. 779 activate SAP EWM settings	63
define relevance	. 781 assign business partner	. 70
document printing	. 791 assign plant and storage location	. 61
effort	. 784 batch determination	. 64
fixed time		. 64
packaging specification 785,	, 786 configure	. 63
process flow		. 60
process steps 787,		, 62
process variant	•	
process-oriented storage control	. 787 external warehouse management	. 63
storage process steps		
system process		506
warehouse-number-dependent	linking	. 62
settings	5	
without variants		
Value-added services (VAS) order	. 774 reporting5	571
condition record		
creating 800,), 806 stock	. 61
define effort	. 784 task5	575
defining	. 801 unchecked delivery	. 64
executing		
header data	. 776 DWA 3	390
kit to order	. 803 Warehouse billing 8	865
number range	. 780 decentralized SAP EWM 8	867
parameter controls	. 781 features 8	865
printing	. 791 measurement management 8	866
process step duration	. 784 measurement request management 8	866
reverse kitting	. 809 Warehouse billing measurements 8	866
structure	. 776 Warehouse control unit 8	844
type	. 809 Warehouse data 1	181
Value-added services (VAS) relevance	. 781 fields 1	183
existence checks	. 781 general data fields 1	181
kitting	. 808 general view 1	181
Value-added services (VAS) work center	. 773 goods receipt 1	183
auxiliary product consumption	. 790 putaway 1	184
quantity	. 790 Warehouse door 142, 143, 7	742
section		144
sections		
Valve-added services (VAS) work center	Warehouse management	
complex putaway	. 359 challenges	36
Variant node	. 580 embedded	75

.... 511

Warehouse management (Cont.)	
overview	35
process	
SAP	
Warehouse management system 35,	844
Warehouse monitor 139, 555, 571, 745,	758
business process	572
category node	
communication points	
create new node	583
custom 576,	582
display telegram logs	
enhance	
features	
functions	
layout	
material flow system nodes	
message queue	
message queue monitoring	
node	
outbound delivery order	
parent and child data	
personalize	
posting change request	
process execution	
profile node	
serial numbers	
settings	
stock identification	
system process	
transactional object(VAC)	701
value-added services (VAS) orders	
Warehouse Monitor app 592,	
Warehouse operations	
Warehouse order 237, 246, 557,	
automatic assignment	
CDS view	
configure	
create	
creation rule 564,	
execute	
limit value 242,	
manual assembly	
printing247, 429,	
processing	
wave management	
Warehouse order creation rule 233, 239,	628
CAP compatability	
define	
determination	
filter	
review	245

Warehouse process categories145
Warehouse process type 118, 232, 420,
687, 700
general settings233
posting change settings235
putaway/stock removal234
storage process settings234
warehouse request settings235
Warehouse product master101
Warehouse request 205, 207, 360, 610, 672,
686, 696, 726, 786
document
item687
rearrangement
release stock
Warehouse request document type
posting change492
Warehouse request item type
posting change492
Warehouse structure 95
element
owner
parameters
Warehouse task
automatic
CDS view
confirm
confirmation587
confirming105
creation588
display history598
grouping239
HU warehouse task237
loading/unloading737
material document597
posting change592
product warehouse task236
replenishment234
SAP Fiori app432
sorting239
splitting245
status232
yard743
Warehousing881
Wave 240, 418, 684
assign696
capacity BAdI693
capacity profile 687, 688
category 686, 689
completion 694
create
creation

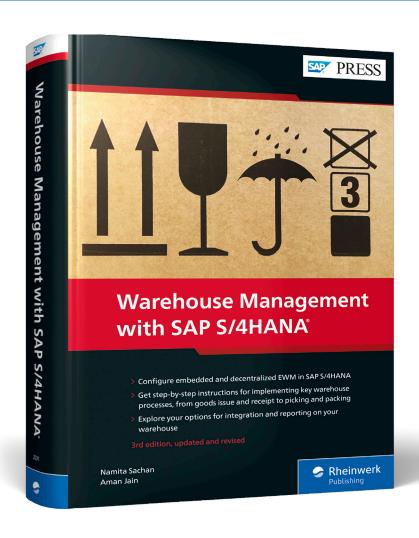
Wave (Cont.)	
header	696
release method	689
replenishment	465
times	694
type 686,	689
Wave management	683
business process	684
configuration	686
logs	697
stock transfer request	502
system process	685
Wave simulation 703,	704
Wave template	688
completion time	695
determination	692
options690,	691
Withdrawal 699,	
WM execution view	161
fields	161
WM packaging view	163
fields	164
Work center	148
capture catch weight	153
check consolidation group	152
check stop on route	152
define	149
determination	441
external process step	150
inspection	325
master data	443
printing labels	151
repack	151
return process	151
sample	150
settings	150

Work center determination	153
goods issue	153
optimizing	153
Work center layout	
settings	
Work schedule	760
Work step	764
sequence	764
Workload data	750
Workload planning	765
Υ	
Yard	368, 726, 738
define	738
door	741
storage type	100
structure	740
Yard management 368, 369, 7	725, 726, 738
activate	738
bin	741
check-in/check-out	742
configuring	738
executing	744
inbound process	745
inbound receipt	744
integration	449
internal yard movement	742
	/43
monitoring	
monitoringSAP Fiori apps	745
-	745 747
SAP Fiori apps	

Zero-stock check







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