

**SAP Manufacturing Execution  
How-To Guide**



# **How To Set Up and Use the SAP ME Pack and Unpack Feature**

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# SAP ME How-To-Guide for Pack and Unpack

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**Document History**

<b>Document Version</b>	<b>Description</b>	<b>Author</b>
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## 1 Introduction

### 1.1 Purpose

The SAP ME How-To-Guide for the Pack and Unpack feature is intended to provide sufficient information to enable packing and unpacking to be easily configured and readily utilized to meet business needs, making use of available best practices.

### 1.2 Scope

This document covers all aspects of the pack and unpack feature in SAP ME.

### 1.3 Glossary

Activity	An executable software unit in SAP ME
Activity Hook	See Hook Activity and Hook Point
Child Container	A container packed in another container
Container	A receptacle, such as a box, carton, or pallet, in/on which manufactured goods are held or carried (similar to a Handling Unit in SAP ERP)
Container (name)	An SAP ME container name identifies the master definition of a container
Container Number	An SAP ME container number, along with the container name, identifies a specific instance of a container
Hook Activity	An SAP ME activity that can be executed automatically at a hook point
Hook Point	A processing point in SAP ME where the execution of an activity can be configured to occur automatically (e.g. at Pre-Complete for an operation)
Material	A unique manufactured or purchased part that is processed or consumed on the shop floor
Parent Container	A container that contains another container
POD	Production Operator Dashboard - configurable SAP ME module designed for use by factory floor operators
SFC	Shop Floor Control unit - a single material or a batch of materials being processed on the shop floor

## 2 Overview of Setting up Packing and Unpacking

### 2.1 Description and Applicability

You can use the Pack/Unpack feature to track the work of operators who pack or unpack your manufactured goods into or from containers. In the system, operators record the SFCs and containers that they pack into or unpack from a parent container.

#### 2.1.1 Decisions to Make

When you work with Pack/Unpack, you decide:

- How you want Pack/Unpack to run
- What data you want collected during the packing process
- What numbering pattern is used when container numbers are assigned
- Whether operators pack SFCs or containers into a container
- What are the acceptable statuses for the SFCs being packed
- What documents are printed during the packing or unpacking process
- The dimensions and weight of the container
- What user-defined activities you want to run during the packing or unpacking process

#### 2.1.2 Running Pack / Unpack

Pack / Unpack can be set up to run standalone or as a plug-in in the Production Operator Dashboard (POD). You use POD Maintenance to define how Pack/Unpack runs.

### 2.2 Business Purposes / Functions

The packing and unpacking functions include the following:

- Define the data you want collected during the packing process
- Create the numbering pattern for container numbers
- Using activity hooks with Pack and Unpack
- Create a container definition
- Pack a container instance
- Unpack a container instance
- Packing Report

## 3 Functions for Pack and Unpack

### 3.1 Create the Numbering Pattern for Container Numbers

A numbering pattern is necessary when you want the system to uniquely identify each container instance using a specific format or pattern. A container number is generated for each container instance if the user does not supply a container number. You define the container numbering pattern in Next Number Maintenance. By default, the system will generate a container number that is unique across all container instances regardless of the container definition (container name). For more information, see [Next Number Maintenance](#) in this document and in the SAP ME online help.

## 3.2 Define a Container

The Container Maintenance activity (PK010) enables a user to create a container master (a container definition). Then at the start of packing, the container definition is used to create a container instance identified by a container number. The container definition can specify the data types to use, the materials that are allowed to be packed and the minimum and maximum quantities to be packed. For more information, see below and [Container Maintenance](#) in this document.

### 3.2.1 Define the Data You Want Collected During the Packing Process

Data types allow you to specify which type of data you want to collect. The packing data types that you define in Data Field Assignment Maintenance can be selected in the following fields of the Main tab of Container Maintenance:

- Container Data Type - when you want the operator to collect information about the containers being packed into a container
- SFC Data Type - when you want the operator to collect information about SFCs being packed into a container

Pack/Unpack checks the packing data type to determine the fields to display for data collection. For more information regarding creating data types, see [Data Field Assignment Maintenance](#) and [Data Field Definition Maintenance](#) in this document and in the SAP ME online help.

### 3.2.2 Control Which Objects can be Packed and Unpacked

Containers can include materials, containers or process lots. The objects operators can pack into or unpack from a container can be defined in Container Maintenance. For example, one container (a box) could contain a quantity of a material and a quantity of those boxes could be loaded on another container (a pallet), along with other containers (boxes).

You can control how the Pack/Unpack activity (PK020) behaves with activity rules. See [Activity Rules](#) below.

### 3.2.3 Identify the Documents for Packing or Unpacking

When a container is being defined, you can specify the documents you want printed during the packing or unpacking process. The documents that you define in Document Maintenance appear as options in the Documents tab of Container Maintenance when you click **Insert New** and browse for documents using the Document browse button.

You can use the Document Print activity (SY520) or the ADS Document Print activity (SY521) as an activity hook to print information about packed or unpacked containers. You can print documents you have set up both in the system and a third-party printing program. For more information about activity hooks, see the SAP ME How-To-Guide – Setting up Activity Hooks. For more information about printing, see the “Setting Up Printing” section of the SAP ME How-To-Guide – Setting up Production Lines.

Pack/Unpack checks the Documents tab of Container Maintenance to determine the documents to print during the packing or unpacking process.

## 3.2.4 Define the Dimensions and Weight of the Container

When a container is being defined, you can define its dimensions and weight. You define the height, width, length, maximum fill weight, and weight of a container in the Dimensions tab of Container Maintenance. These values are not used by SAP ME in any calculations. They are available for informational purposes and for use by customer developed hook activities.

## 3.3 Using Activity Hooks with Pack/Unpack

You can use activity hooks with Pack/Unpack to automatically perform user-defined activities for tasks. For example, you can use the REOPEN\_CONTAINER site level hook point to automatically execute an activity when a container is opened. For more information about site-level activity hook points, see [Activity Hooks](#) below and the SAP ME How-To-Guide – Setting up Activity Hooks.

## 3.4 Pack a Container Instance

The Pack/Unpack activity (PK020) can be executed directly from the Activity Manager, as a standalone activity, or as a plug-in in a POD. For information on setting it up as a plug-in, see POD Maintenance in the SAP ME online help.

The following screenshot shows the Pack/Unpack screen.

**Pack/Unpack**

\* Site: BOBJ

Pack Level: Min Qty: Max Qty: Current Qty:  
Total: 0 0 0

\* Container:

\* Container Number:

Create Container Number Retrieve Unpack

Container Data		Received				
Pack Value And Data		<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty
* Pack Value: SFC <input type="text"/>						
Add						

Done Done and Close Clear

To create a container instance, the user specifies a container, defined in Container Maintenance, optionally enters or scans a container number, and selects the Create Container Number button. To use an existing container instance, the user specifies a container, specifies the container number and selects the Retrieve button. The container number must be unique across all container instances.

## SAP ME How-To-Guide for Pack and Unpack

To pack an SFC into the container instance, the user ensures that SFC is selected in the Pack Value drop-down field, specifies the SFC number in the Pack Value browse field and selects the Add button. The information for the SFC is then displayed in the Received table.

Similarly to pack some other container into this container instance, the user selects Container in the Pack Value drop-down field, specifies a container number in the Pack Value browse field and selects the Add button. The information for the container is then displayed in the Received table.

After packing an item into the container (or after retrieving an existing container), the information in the upper right corner of the screen will show the number of containers and/or the number of SFCs that have been packed into the container.

The user can use the Done button to stop packing the container, but leave the container open so that additional items can be packed into it. By using the Done and Close button, the user can stop packing the container and close the container so that nothing more can be packed into it.

The screenshot shows the SAP ME Pack/Unpack activity interface. At the top, the title bar reads "Pack/Unpack". Below the title bar, there are several input fields and buttons:

- \* Site: BOBJ
- \* Container: BOX\_1
- \* Container Number: CN4
- Buttons: Create Container Number, Retrieve, Unpack

On the right side, there is a summary table:

Pack Level:	Min Qty:	Max Qty:	Current Qty:
Material:	1	1	0
Total:	2	2	1

The interface is divided into two main sections: "Container Data" and "Received".

**Container Data:**

- Pack Value And Data
- \* Pack Value: SFC (dropdown) [Browse]
- Add button

**Received:**

<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty
<input type="checkbox"/>	AUX_GEAR_L-000003	AUX_GEAR_L	AUX_GEAR_L-000001	1

Remove button

### 3.5 Unpack a Container

The Pack/Unpack activity can be set up for packing only, packing and unpacking or both. The following screenshot shows a Pack/Unpack activity set up only for unpacking containers.

# SAP ME How-To-Guide for Pack and Unpack

The screenshot shows the SAP ME Pack/Unpack interface. At the top, the title is "Pack/Unpack". Below the title, there are input fields for "Site" (BOBJ), "Container" (empty), and "Container Number" (empty). There are "Retrieve" and "Open" buttons next to the "Container Number" field. To the right, there are labels for "Current Packed Qty:", "New Packed Qty:", and "Status:". Below these, there is an "SFC:" field and a link for "SFC Step Status". At the bottom, there are two main sections: "Packed" and "Unpacked". Each section has a table with columns for "SFC/Container", "Material", and "Shop Order". Below these sections are buttons for "Done", "Done and Close", "Clear", and "Exit".

After specifying the container name and number, the user can retrieve and/or open the container instance. The screen will then display the contents of the container, as shown in the following screenshot.

The screenshot shows the SAP ME Pack/Unpack interface after the container has been retrieved. The "Site" is still BOBJ. The "Container" field now contains "PALLET\_1" and the "Container Number" field contains "CN6". The "Retrieve" and "Open" buttons are still present. The "Current Packed Qty:" is now 4, and the "Status:" is "Reopen". The "SFC:" field and "SFC Step Status" link are still there. In the "Packed" section, the table now contains four rows with checkboxes and container numbers: CN4, CN5, CN7, and CN8. An "Unpack" button is located below this table. The "Unpacked" section remains empty. The bottom buttons "Done", "Done and Close", "Clear", and "Exit" are still present.

The user can then select one or more items packed in the container and select the unpack button to unpack them. These items will then be displayed in the Unpacked table, as shown in the screenshot below.

# SAP ME How-To-Guide for Pack and Unpack

**Pack/Unpack**

\* Site: BOBJ  
\* Container: PALLET\_1  
\* Container Number: CN6  
SFC:

Current Packed Qty: 4  
New Packed Qty: 3  
Status: REOPEN

[SFC Step Status](#)

Packed			Unpacked				
<input type="checkbox"/>	SFC/Container	Material	Shop Order	<input type="checkbox"/>	SFC/Container	Material	Shop Order
<input type="checkbox"/>	CN4			<input type="checkbox"/>	CN5		
<input type="checkbox"/>	CN7						
<input type="checkbox"/>	CN8						

Unpack      Repack

Done   Done and Close   Clear   Exit

After unpacking an item from the container, the user can use the Repack button to pack an unpacked item back into the container. The information in the upper right corner of the screen displays the original quantity packed into the container and the current quantity packed into the container following any unpack and repack actions.

The user can use the Done button to stop unpacking the container, but leave the container open so that additional items can be unpacked from it or packed into it. By using the Done and Close button, the user can stop unpacking the container and close the container so that nothing more can be unpacked from it or packed into it. The Exit button clears the screen without saving the results of the actions taken.

Unpack can also be performed from a Pack/Unpack activity set up for both pack and unpack, as shown in the screenshot below.

# SAP ME How-To-Guide for Pack and Unpack

**Pack/Unpack**

\* Site: BOBJ

Pack Level: Min Qty: Max Qty: Current Qty:  
Total: 0 0 0

\* Container:

\* Container Number:

Create Container Number Retrieve Unpack

Container Data

Received

<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty
--------------------------	---------------	----------	------------	-----

Pack Value And Data

\* Pack Value: SFC

Add

Done Done and Close Clear

In this situation, the user can specify the container name and number for a closed container and then select the Unpack button. This will result in the same Unpack screen as shown and described earlier in this section of the document.

## 3.6 Packing Report

The Packing Report (PK070) provides information regarding the contents of a container (or containers) and identifies the parent container, if there is one. The containers for the report can be specified by container number, or they can be determined from a specified SFC or Shop Order.

The following screenshot shows the packing report search header, using Container Number for the search.

PACKING REPORT Show Results in New Window

\* Site: BOBJ

Container Number

Search

If no container number is specified, the report will include all non-empty containers that have been defined.

# SAP ME How-To-Guide for Pack and Unpack

The following table describes how the search header drop-down field values are used.

Drop-down Value	Adjacent Field Value	Description of what the Results Table will Contain
Container	Container number	A row for each item in the specified container
	blank	A row for each item in each existing non-empty container
SFC	SFC number	A row for each for each container that directly contains the SFC
	blank	A row for each item in each existing non-empty container
Shop Order	Shop order number	A row for each container that directly contains an SFC for the shop order
	Blank	A row for each item in each existing non-empty container

The following screenshot shows the results of a packing report.

PACKING REPORT						
Site: BOBJ						
PARENT CONTAINER	CONTAINER	CONTENTS	QTY	CONTAINER NAME/MATERIAL	SHOP ORDER	MORE INFO
CN3	CN1	DRIVE_GEAR-000002	1	DRIVE_GEAR	DRIVE_GEAR-000001	<a href="#">Container Member</a>
CN9	CN10	DRIVE_GEAR-000004	1	DRIVE_GEAR	DRIVE_GEAR-000001	<a href="#">Container Member</a>
	CN12	<a href="#">CN6</a>		PALLET_1		<a href="#">Container</a>
CN3	CN2	AUX_GEAR_L-000002	1	AUX_GEAR_L	AUX_GEAR_L-000001	<a href="#">Container Member</a>
CN3	CN2	AUX_GEAR_R-000002	1	AUX_GEAR_R	AUX_GEAR_R-000001	<a href="#">Container Member</a>
	CN3	<a href="#">CN1</a>		BOX_2		<a href="#">Container</a>
	CN3	<a href="#">CN2</a>		BOX_1		<a href="#">Container</a>
CN6	CN4	AUX_GEAR_L-000003	1	AUX_GEAR_L	AUX_GEAR_L-000001	<a href="#">Container Member</a>
CN6	CN4	AUX_GEAR_R-000003	1	AUX_GEAR_R	AUX_GEAR_R-000001	<a href="#">Container Member</a>
CN6	CN5	DRIVE_GEAR-000003	1	DRIVE_GEAR	DRIVE_GEAR-000001	<a href="#">Container Member</a>
CN12	CN6	<a href="#">CN4</a>		BOX_1		<a href="#">Container</a>
CN12	CN6	<a href="#">CN5</a>		BOX_2		<a href="#">Container</a>
CN12	CN6	<a href="#">CN7</a>		BOX_1		<a href="#">Container</a>
CN12	CN6	<a href="#">CN8</a>		BOX_2		<a href="#">Container</a>
CN6	CN7	AUX_GEAR_L-000012	1	AUX_GEAR_L	AUX_GEAR_L-000002	<a href="#">Container Member</a>
CN6	CN7	AUX_GEAR_R-000012	1	AUX_GEAR_R	AUX_GEAR_R-000002	<a href="#">Container Member</a>
CN6	CN8	DRIVE_GEAR-000012	1	DRIVE_GEAR	20111110-1	<a href="#">Container Member</a>
	CN9	<a href="#">CN10</a>		BOX_2		<a href="#">Container</a>
<b>End of Data</b>						

The following table describes the columns in the Packing Report results.

Column	Description
Parent Container	The container number for the parent container. It provides a hyperlink to the Packing Report for the parent container.
Container	The container number for the container.
Contents	The identifier of an item in the container - either the SFC number for a material or the container number for a container. The container number provides a hyperlink to the Packing Report for the child container.
Qty	The quantity of pieces in the SFC directly packed in the container.
Container Name / Material	If the contents item is a container, this is the container name; if the contents item is an SFC, this is the name of the material.
Shop Order	The shop order that owns the SFC.
More Info	If the item in the container is an SFC, a hyperlink to the Container Member Detail Report; if it is a child container, a hyperlink to the Container Detail Report.

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Selecting a container number hyperlink, in either the Parent Container or Contents column, will display the packing report for that container number. Selecting a Container Member hyperlink will display the Container Member Detail Report for that container, as shown in the following screenshot.

**CONTAINER MEMBER DETAIL REPORT**

**Container Number : CN1**

Site: BOBJ

SFC: DRIVE\_GEAR-000002

Shop Order: DRIVE\_GEAR-000001

Customer:

Container Member Data

Selecting a Container hyperlink will display the Container Detail Report for that container, as shown in the following screenshot.

**CONTAINER DETAIL REPORT**

Container Number: CN6			
Site:	BOBJ	Container Number:	CN6
Container:	PALLET_1		
Pack Level:	CONTAINER	Max Quantity:	20
Height:		Container Weight:	
Width:		Max Fill Weight:	
Length:			
Container Number: CN4			
Site:	BOBJ	Container Number:	CN4
Container:	BOX_1		
Pack Level:	ITEM	Max Quantity:	2
Height:	1000	Container Weight:	2
Width:	1200	Max Fill Weight:	25
Length:	1200		
Container Number: CN5			
Site:	BOBJ	Container Number:	CN5
Container:	BOX_2		
Pack Level:	ITEM	Max Quantity:	1
Height:		Container Weight:	
Width:		Max Fill Weight:	
Length:			
Container Number: CN7			
Site:	BOBJ	Container Number:	CN7
Container:	BOX_1		
Pack Level:	ITEM	Max Quantity:	2
Height:	1000	Container Weight:	2
Width:	1200	Max Fill Weight:	25
Length:	1200		
Container Number: CN8			
Site:	BOBJ	Container Number:	CN8
Container:	BOX_2		
Pack Level:	ITEM	Max Quantity:	1
Height:		Container Weight:	
Width:		Max Fill Weight:	
Length:			

This report shows definition information about the container itself and about the containers that are packed in it.

## 4 Integration

If SAP ME is integrated with SAP ERP, the following transactions can be used for outbound communication to ERP when containers are closed:

- ERP\_CONTAINER\_CLOSED\_CONFIRMATION
- ERP\_CONTAINER\_CLOSED\_BACKFLUSHING

The transactions are only sent for the materials specified in the ERP\_MATERIAL\_FILTER activity rule for the Pack/Unpack activity (PK020). For more information, see [Activity Rules](#) below. For more information regarding ERP Integration, see SAP ME ERP Integration in the SAP ME online help.

## 5 Setting up Packing and Unpacking

To set up packing and unpacking:

1. If you want to collect information about SFCs and/or containers that are being packed into containers
  - Define the **Packing SFC** data type in [Data Field Assignment Maintenance](#)
  - Define the **Packing Container** data type in [Data Field Assignment Maintenance](#)
2. Define the numbering pattern for the container number in [Next Number Maintenance](#)
3. If you want to print labels or other documents for containers
  - Define the documents you want available to print in [Document Maintenance](#)
  - Attach the documents to containers on the Documents tab of [Container Maintenance](#)
  - Set up the Document Print activity (SY520) or the ADS Document Print activity (SY521) as an activity hook where you want the documents to print

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**Note:** For more information about printing, see the SAP ME How-To-Guide - Printing. For more information about activity hooks, see the SAP ME How-To-Guide - Setting up Activity Hooks.

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4. Define containers in [Container Maintenance](#). For more information, see the SAP ME online help for Container Maintenance.

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**Note:** If you want to collect information about SFCs and/or containers that are being packed into containers, specify the Container Data Type and the SFC Data Type on the Main tab in [Container Maintenance](#).

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5. If you want to run user-defined activities during the packing or unpacking process, set up the desired activities as activity hooks to automatically execute during the packing or unpacking process.

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**Note:** For more information about activity hooks, see the SAP ME How-To-Guide - Setting up Activity Hooks.

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## 5.1 Maintenance Activities

### 5.1.1 System Rules

#### 5.1.1.1 Unit of Measurement for Distance

The specified unit of measurement for distance is used for the Height, Width and Length of the container in [Container Maintenance](#).

#### 5.1.1.2 Unit of Measurement for Mass

The specified unit of measurement for mass is used for the weight of the Max Fill Weight and the Container Weight in [Container Maintenance](#).

### 5.1.2 Activity Rules

The following activity rules are available for the Pack/Unpack activity (PK020):

Rule	Setting
ACCESS_CLOSED_CONTAINERS	<b>YES</b> (default): Allows users retrieve closed containers. <b>NO</b> : Prevents users from retrieving closed containers.
ACCESS_OPEN_CONTAINERS	<b>YES</b> (default): Allows users to retrieve containers. <b>NO</b> : Prevents users from retrieving open containers.
ALLOW_ACTIVE_SFC	<b>YES</b> (default): Allows SFCs with a status of Active to be packed into or unpacked from a container. <b>NO</b> : Prevents SFCs with a status of Active from being packed into or unpacked from a container.
ALLOW_DONE_SFC	<b>YES</b> (default): Allows SFCs with a status of Done to be packed into or unpacked from a container. <b>NO</b> : Prevents SFCs with a status of Done from being packed into or unpacked from a container.
ALLOW_INQUE_SFC	<b>YES</b> (default): Allows SFCs with a status of In Queue (or New) to be packed into or unpacked from a container. Note: SFCs with a status of New will have their status changed to In Queue when they are packed into a container. <b>NO</b> : Prevents SFCs with a status of In Queue (or New) from being packed into or unpacked from a container.
ALLOW_PACK	<b>YES</b> (default): Allows users to pack containers. <b>NO</b> : Prevents users from packing containers.
ALLOW_UNPACK	<b>YES</b> (default): Allows users to unpack containers. <b>NO</b> : Prevents users from unpacking containers.
ERP_MATERIAL_FILTER	Related to SAP ERP integration. Defines which messages are sent to SAP ERP. The system will send confirmations and corresponding Goods Issued messages to SAP ERP if the SFC that is packed in the container meets one of the filters. Filters are separated by comma (,) and allow the use of wildcard (*). For example, *; <b>MATERIAL1*</b> , <b>Material1*</b> , <b>TOP*</b> . When the value is blank, no message is sent to SAP ERP.
ERP_OPERATION	Related to SAP ERP integration. Defines the <b>Operation</b> field in the confirmation message that is sent to SAP ERP when a container is closed. For example, <b>ASSY,OPER1</b>

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Rule	Setting
ERP_REPORTING_STEP	Related to SAP ERP integration. Defines the <b>Reporting Step</b> field in the confirmation message that is sent to SAP ERP when a container is closed. For example, <b>0010,0020</b>
ERP_SEQUENCE	Related to SAP ERP integration. Defines the <b>Sequence</b> field in the confirmation message that is sent to SAP ERP when a container is closed. For example, <b>0</b> .

## 5.1.3 Activity Hooks

The following table identifies the hook points that are specific to Pack/Unpack (PK020).

Hook Point	When the Hook Activity Executes
CALC_DIMENSIONS	After the user chooses Close Container in Pack/Unpack
PACKING_VALIDATION	After the user chooses Add in Pack/Unpack, before the system adds the SFC number to the container
POST_CONTAINER_CLOSE	After the user chooses Close Container in Pack/Unpack
POST_CONTAINER_SAVE	After the user chooses Save in Pack/Unpack
PRE_PACKING_SFC	After the user chooses Add in Pack/Unpack, before the system adds the SFC number to the container
REOPEN_CONTAINER	After the user chooses Unpack in Pack/Unpack

## 5.1.4 Product Configuration

### 5.1.4.1 Document Maintenance

In Document Maintenance you can define the documents that you want to print during packing and unpacking. Document types of Label, Document and Traveler are available. For more information, see Document Maintenance in the SAP ME online help.

## 5.1.5 System Configuration

### 5.1.5.1 Data Field Assignment Maintenance

The Data Field Assignment Maintenance activity is used to create data types for collecting information for the assigned activity or task in SAP ME. It uses one or more data fields defined in Data Field Definition Maintenance. For more information, see Data Field Assignment Maintenance in the SAP ME online help.

### 5.1.5.2 Data Field Definition Maintenance

The Data Field Definition Maintenance activity is used to create data fields that are used by Data Field Assignment Maintenance for collecting information. For more information, see Data Field Definition Maintenance in the SAP ME online help.

### 5.1.5.3 Next Number Maintenance

The Next Number Maintenance activity is used to set up the numbering scheme for the container numbers. For more information, see Next Number Maintenance in the SAP ME help.

## 5.1.6 Other Maintenance Activities

### 5.1.6.1 Container Maintenance (PK010)

#### 5.1.6.1.1 Purpose / Effects

The Container Maintenance activity (PK010) is generally found in the Genealogy Maintenance group in the Activity Manager. It provides the capability to define the master data for containers. This master data is then used in the Pack/Unpack activity (PK020) where individual containers, each with a system generated container number, are created. The container numbers must be unique across all container master definitions.

You can use this activity to create and change container records by defining the following:

- Objects to be packed into the container
- Data types used to collect data for the container and the SFC numbers being packed into the container
- Documents to be printed during the packing process
- Dimensions of the container

The following table describes the Main Tab Page fields requiring explanation:

Field	Description
Container	The unique name of the container master definition
Status	<p><b>Releasable:</b> Allows users to use this container when setting up packing</p> <p><b>Frozen:</b> Allows users to use this container when setting up packing; indicates that users should not change this container record</p> <p><b>Obsolete:</b> Prevents users from using this container when setting up packing; indicates that this container is no longer used</p> <p><b>Hold:</b> Prevents users from using this container when setting up packing; indicates that this status is temporary. When the hold issue is resolved, users can change the status of this record.</p> <p><b>New:</b> Prevents users from using this container when setting up packing, but allows users to change this container record; indicates that this container record is new and not ready for production</p> <p><b>Hold Consec NC:</b> Prevents operators and machines from working on SFC numbers with consecutive nonconformances logged against them using this container</p> <p><b>Hold SPC Viol:</b> Prevents operators and machines from working on SFC numbers with SPC violations using this container</p> <p><b>Hold SPC Warn:</b> Prevents operators and machines from working on SFC numbers with SPC warnings using this container</p> <p><b>Hold Yield Rate:</b> Prevents operators and machines from working on SFC numbers with yield rates below defined values using this container</p>
Container Data Type	The data type that is used to collect data for the container during the packing process
SFC Data Type	The data type that is used to collect data for the SFC number during the packing process
SFC Pack Order	<p>Specifies how SFC numbers in a process lot are packed:</p> <p><b>SFC:</b> SFC numbers in the process lot are packed into the container in SFC order.</p> <p><b>FIFO in Process Lot:</b> SFC numbers in a process lot are packed by the time stamp (first in,</p>

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Field	Description
	first out) they were added to the process lot.
Total Min Qty	The total minimum number of SFC numbers, containers, or process lots that can be packed into the container
Pack Level	Specifies what is packed into the container: <b>Material:</b> SFC numbers are packed in the container. <b>Container:</b> Containers are packed in the container. <b>Process Lot:</b> Process lots are packed in the container.
Pack Level Value	<b>Blank:</b> The first SFC placed in the container specifies the value of the material, version, and shop order for all subsequent SFC numbers * : Any value of a material, container, or process lot <b>Specific value:</b> The identifier of a specific material, container master definition, or process lot
Version	<b>Blank:</b> The current version of the material * : Any version of the material <b>Specific value:</b> The specific version of the material
Shop Order	<b>Blank:</b> The first SFC number placed in the container specifies the shop order for all subsequent SFC numbers. * : Any shop order of the material and version of the first SFC number placed in the container can be packed. <b>Specific value:</b> The identifier of the specific shop order for the SFC numbers to be packed
Min Qty	The minimum quantity of the pack level value that must be packed into the container before it can be closed. A value of zero indicates that the item specified in the Pack Level Value field is optional (does not have to be packed).
Max Qty	The maximum quantity of the pack level value that can be packed into the container before it is closed.

The following table describes the Documents Tab fields:

Field	Description
Sequence	The order in which the documents are printed
Document	Documents that are printed during the packing process

The following table describes the Dimensions Tab fields:

Field	Description
Height	The height of the container (in units specified by the system rule, Unit of Measurement for Distance)
Width	The width of the container (in units specified by the system rule, Unit of Measurement for Distance)
Length	The length of the container (in units specified by the system rule, Unit of Measurement for Distance)
Max Fill Weight	The maximum weight of the contents of the container (in units specified by the system rule, Unit of Measurement for Mass)
Container Weight	The maximum weight of the container itself (in units specified by the system rule, Unit of Measurement for Mass)

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The following activity rules are available for Container Maintenance:

Rule	Description
MAXIMUM_QTY	YES (default): Requires the user to enter a value in the Max Qty field in Container Maintenance NO: Does not require the user to enter a value in the Max Qty field in Container Maintenance
MINIMUM_QTY	YES (default): Requires the user to enter a value in the Min Qty field in Container Maintenance NO: Does not require the user to enter a value in the Min Qty field in Container Maintenance

## 5.1.6.1.2 Settings / Example

The following screenshot shows a container master definition.

The screenshot displays the SAP Container Maintenance interface. At the top, there are navigation buttons: Retrieve, Save, Clear, and Delete. The main area shows the container details for 'BOBJ' and 'BOX\_1'. The 'Main' tab is active, showing the following fields:

- Description: Box 1
- Status: Releasable
- Container Data Type: NONE
- SFC Data Type: NONE
- SFC Pack Order: SFC
- Total Min Qty: 2
- Total Max Qty: 2

Below the main fields, there is a table with 'Insert New' and 'Remove Selected' buttons. The table contains the following data:

Pack Level	Pack Level Value	Version	Shop Order	Min Qty	* Max Qty
Material	AUX_GEAR_L	A		1	1
Material	AUX_GEAR_R	A		1	1

## 6 Usage Scenario Examples

### 6.1 Scenario 1 - Boxes on a Pallet

#### 6.1.1 Purpose / Goal

The following scenario illustrates setting up for, and loading two boxes containing gears, onto a pallet.

#### 6.1.2 Scenario Specific Prerequisites

- Three materials (AUX\_GEAR\_L, AUX\_GEAR\_R and DRIVE\_GEAR) have been defined
- SFCs have been created and processed for the materials

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## 6.1.3 Scenario Steps

1. Select Container Maintenance
2. Enter a name (e.g. BOX\_1) and description for the auxiliary gears box
3. Enter AUX\_GEAR\_L as the first material
4. Insert another row
5. Enter AUX\_GEAR\_R as the second material
6. Enter 1 for the Min Qty and 1 for the Max Qty for each material
7. Select Save

**Container Maintenance**

Retrieve Save Clear Delete

\* Site: BOBJ

\* Container:

Main Documents Dimensions Custom Data

Description:

Status: Releasable

Container Data Type:

SFC Data Type:

SFC Pack Order:

Total Min Qty:

Total Max Qty:

**Insert New Remove Selected**

Pack Level	Pack Level Value	Version	Shop Order	Min Qty	* Max Qty
Material	<input type="text" value="AUX_GEAR_L"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text" value="1"/>	<input type="text" value="1"/>
Material	<input type="text" value="AUX_GEAR_R"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text" value="1"/>	<input type="text" value="1"/>

8. Create a container for the drive gear

**Container Maintenance**

Retrieve Save Clear Delete

\* Site: BOBJ

\* Container:

Main Documents Dimensions Custom Data

Description:

Status: Releasable

Container Data Type:

SFC Data Type:

SFC Pack Order:

Total Min Qty:

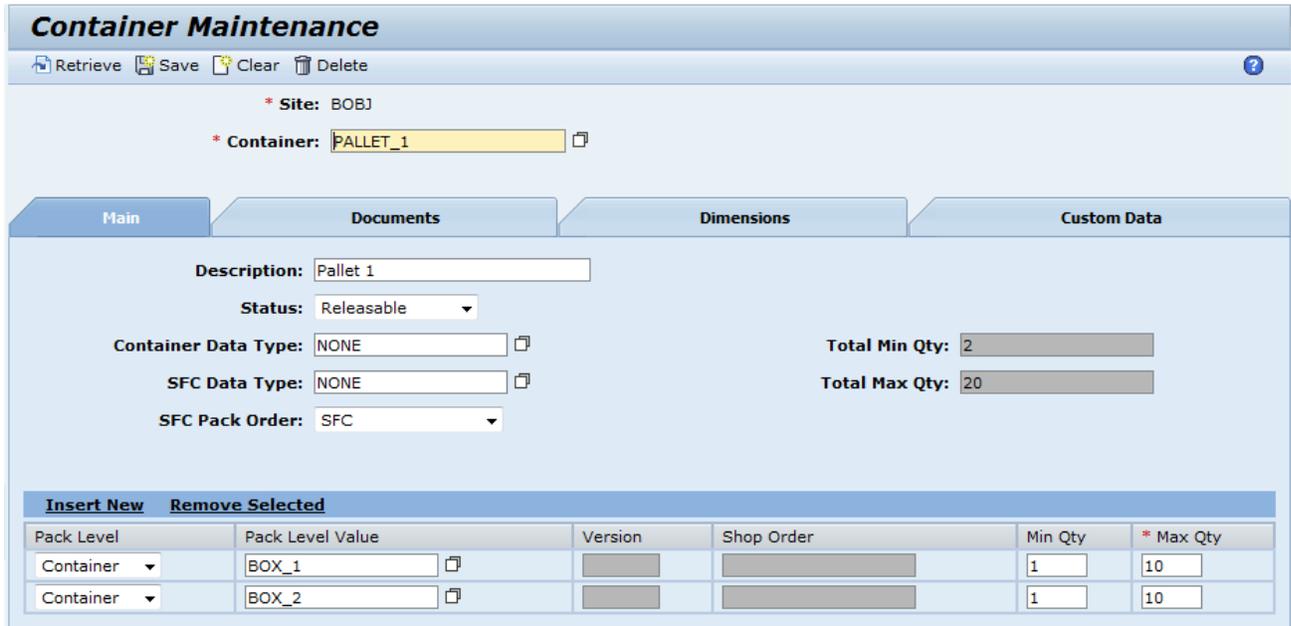
Total Max Qty:

**Insert New Remove Selected**

Pack Level	Pack Level Value	Version	Shop Order	Min Qty	* Max Qty
Material	<input type="text" value="DRIVE_GEAR"/>	<input type="text" value="A"/>	<input type="text"/>	<input type="text" value="1"/>	<input type="text" value="1"/>

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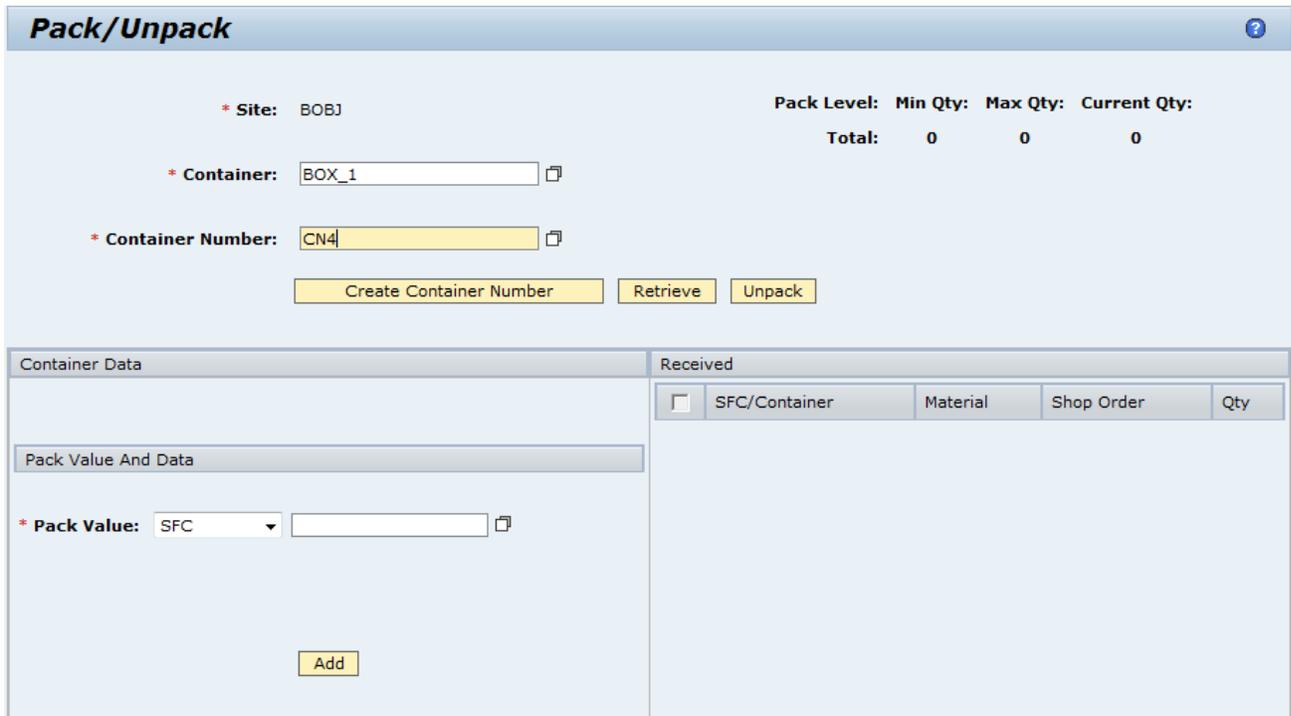
9. Create a container for the pallet



The screenshot shows the SAP Container Maintenance interface. At the top, there are navigation buttons: Retrieve, Save, Clear, and Delete. The site is set to BOBJ. The container is identified as PALLET\_1. Below this, there are four tabs: Main, Documents, Dimensions, and Custom Data. The Main tab is active, showing fields for Description (Pallet 1), Status (Releasable), Container Data Type (NONE), SFC Data Type (NONE), and SFC Pack Order (SFC). On the right side, Total Min Qty is 2 and Total Max Qty is 20. At the bottom, there is a table with columns for Pack Level, Pack Level Value, Version, Shop Order, Min Qty, and Max Qty. Two rows are visible, both for Container level, with values BOX\_1 and BOX\_2, and Min Qty of 1 and Max Qty of 10.

Pack Level	Pack Level Value	Version	Shop Order	Min Qty	* Max Qty
Container	BOX_1			1	10
Container	BOX_2			1	10

10. Open the Pack/Unpack activity
11. Select the BOX\_1 container
12. Select the Create Container Number button



The screenshot shows the SAP Pack/Unpack interface. The site is BOBJ. The container is BOX\_1. The container number is CN4. There are buttons for Create Container Number, Retrieve, and Unpack. Below this, there are two main sections: Container Data and Received. The Container Data section has a Pack Value field set to SFC and an Add button. The Received section has a table with columns for SFC/Container, Material, Shop Order, and Qty.

SFC/Container	Material	Shop Order	Qty
---------------	----------	------------	-----

13. Select an SFC for AUX\_GEAR\_L
14. Select the Add button

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**Pack/Unpack** ?

\* Site: BOBJ

\* Container: BOX\_1

\* Container Number: CN4

Buttons: Create Container Number, Retrieve, Unpack

Pack Level:	Min Qty:	Max Qty:	Current Qty:
Material:	1	1	0
Total:	2	2	1

Container Data		Received			
SFC/Container	Material	Shop Order	Qty		
<input type="checkbox"/>	AUX_GEAR_L-000003	AUX_GEAR_L	AUX_GEAR_L-000001	1	

Pack Value And Data

\* Pack Value: SFC

Buttons: Add

- 15. Select an SFC for AUX\_GEAR\_L
- 16. Select the Add button

**Pack/Unpack** ?

\* Site: BOBJ

\* Container: BOX\_1

\* Container Number: CN4

Buttons: Create Container Number, Retrieve, Unpack

Pack Level:	Min Qty:	Max Qty:	Current Qty:
Material:	1	1	1
Total:	2	2	2

Container Data		Received			
SFC/Container	Material	Shop Order	Qty		
<input type="checkbox"/>	AUX_GEAR_L-000003	AUX_GEAR_L	AUX_GEAR_L-000001	1	
<input type="checkbox"/>	AUX_GEAR_R-000003	AUX_GEAR_R	AUX_GEAR_R-000001	1	

Pack Value And Data

\* Pack Value: SFC

Buttons: Add

Buttons: Done, Done and Close, Clear

- 17. Select the Done and Close button

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18. Pack a drive gear in BOX\_2

The screenshot shows the SAP ME Pack/Unpack interface. At the top, the title is "Pack/Unpack". Below the title, there are input fields for "Site" (BOBJ), "Container" (BOX\_2), and "Container Number" (CN5). To the right, a summary table shows the pack level and current quantities for the material.

Pack Level:	Min Qty:	Max Qty:	Current Qty:
Material:	1	1	1
Total:	1	1	1

Below the input fields are buttons for "Create Container Number", "Retrieve", and "Unpack".

The interface is divided into two main sections: "Container Data" and "Received".

**Container Data:** This section contains a "Pack Value And Data" field with a dropdown menu set to "SFC" and an empty input field. Below this is an "Add" button.

**Received:** This section contains a table with the following data:

<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty
<input type="checkbox"/>	DRIVE_GEAR-000003	DRIVE_GEAR	DRIVE_GEAR-000001	1

Below the table is a "Remove" button.

At the bottom of the interface are buttons for "Done", "Done and Close", and "Clear".

19. Select the Done and Close button

20. Pack containers CN4 and CN5 in PALLET\_1

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**Pack/Unpack** ?

\* Site: BOBJ

\* Container: PALLET\_1

\* Container Number: CN6

Pack Level: Min Qty: Max Qty: Current Qty:  
 Container: 1 10 1  
 Total: 2 20 2

---

Container Data	Received															
Pack Value And Data * Pack Value: Container <input type="text"/> <input type="button" value="Add"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th><input type="checkbox"/></th> <th>SFC/Container</th> <th>Material</th> <th>Shop Order</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>CN4</td> <td></td> <td></td> <td style="text-align: right;">1</td> </tr> <tr> <td><input type="checkbox"/></td> <td>CN5</td> <td></td> <td></td> <td style="text-align: right;">1</td> </tr> </tbody> </table> <p style="text-align: center;"><input type="button" value="Remove"/></p>	<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty	<input type="checkbox"/>	CN4			1	<input type="checkbox"/>	CN5			1
<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty												
<input type="checkbox"/>	CN4			1												
<input type="checkbox"/>	CN5			1												

21. Select the Done button
22. Do not close the container so that more boxes can be added to the pallet
23. Select the Packing Report
24. Enter CN6 for the Container Number
25. Select the Search button

**PACKING REPORT** Show Results in New Window

\*Site: BOBJ

Container Number

---

**PACKING REPORT** Site: BOBJ

Container Number: CN6

PARENT CONTAINER	CONTAINER	CONTENTS	QTY	CONTAINER NAME/MATERIAL	SHOP ORDER	MORE INFO
	CN6	<a href="#">CN4</a>		BOX_1		<a href="#">Container</a>
	CN6	<a href="#">CN5</a>		BOX_2		<a href="#">Container</a>
<b>End of Data</b>						

26. Select the CN4 hyperlink
27. The system displays the packing report for container CN4

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**PACKING REPORT** Show Results in New Window

\*Site: BOBJ

Container Number: CN6

---

**PACKING REPORT**

Container Number: CN4 Site: BOBJ

PARENT CONTAINER	CONTAINER	CONTENTS	QTY	CONTAINER NAME/MATERIAL	SHOP ORDER	MORE INFO
<a href="#">CN6</a>	CN4	AUX_GEAR_L-000003	1	AUX_GEAR_L	AUX_GEAR_L-000001	<a href="#">Container Member</a>
<a href="#">CN6</a>	CN4	AUX_GEAR_R-000003	1	AUX_GEAR_R	AUX_GEAR_R-000001	<a href="#">Container Member</a>

**End of Data**

28. Pack a left auxiliary gear, with a status of New, in BOX\_1 (container number CN7)
29. Pack a right auxiliary gear, with a status of In Queue, in BOX\_1 (container number CN7)
30. Select Close and Done
31. Pack a drive gear, with a status of Active, in BOX\_2 (container number CN8)
32. Select Close and Done
33. Pack containers CN7 and CN8 on Pallet\_1 (container CN6)

**Pack/Unpack**

\* Site: BOBJ

\* Container: PALLET\_1

\* Container Number: CN6

Pack Level: Min Qty: Max Qty: Current Qty:

Container:	1	10	2
Total:	2	20	4

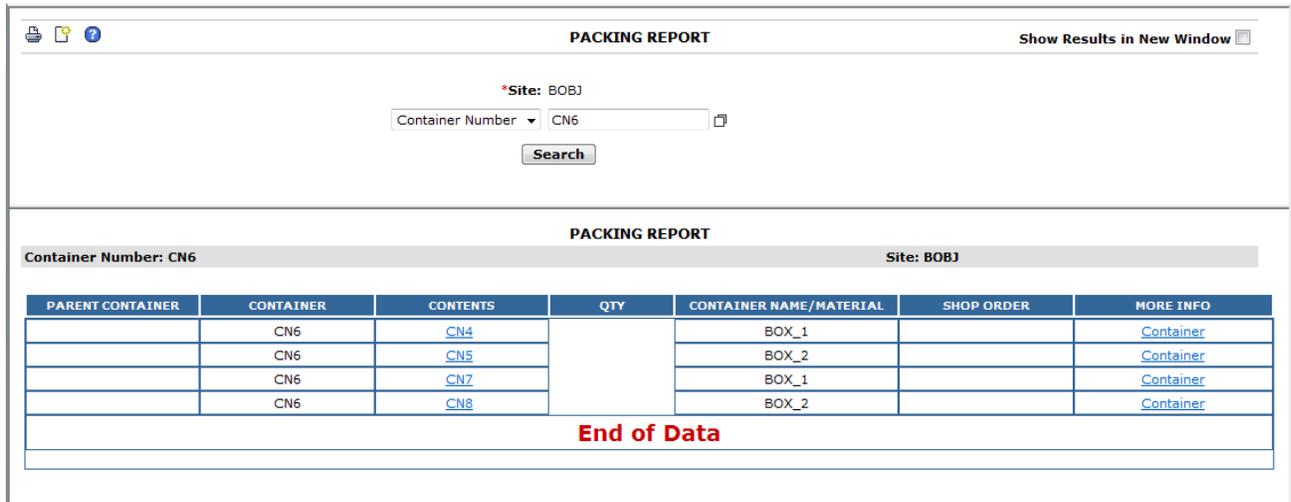
Container Data	Received																									
Pack Value And Data	<table border="1"> <thead> <tr> <th><input type="checkbox"/></th> <th>SFC/Container</th> <th>Material</th> <th>Shop Order</th> <th>Qty</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td>CN4</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td><input type="checkbox"/></td> <td>CN5</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td><input type="checkbox"/></td> <td>CN7</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td><input type="checkbox"/></td> <td>CN8</td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table>	<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty	<input type="checkbox"/>	CN4			1	<input type="checkbox"/>	CN5			1	<input type="checkbox"/>	CN7			1	<input type="checkbox"/>	CN8			1
<input type="checkbox"/>	SFC/Container	Material	Shop Order	Qty																						
<input type="checkbox"/>	CN4			1																						
<input type="checkbox"/>	CN5			1																						
<input type="checkbox"/>	CN7			1																						
<input type="checkbox"/>	CN8			1																						

\* Pack Value: Container

34. Select the Done and Close button
35. Select the Packing Report activity
36. Select container number CN6

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37. Select the Search button



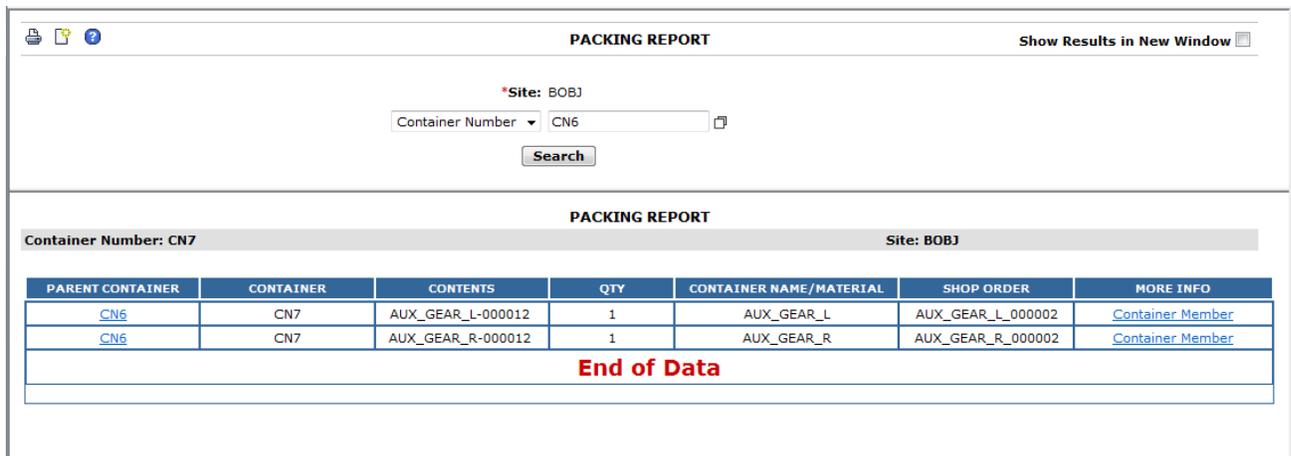
The screenshot shows the SAP Packing Report interface. At the top, it says "PACKING REPORT" and "Show Results in New Window". Below that, the site is set to "BOBJ". The "Container Number" is set to "CN6". A "Search" button is visible. The report header shows "Container Number: CN6" and "Site: BOBJ". The table below has columns: PARENT CONTAINER, CONTAINER, CONTENTS, QTY, CONTAINER NAME/MATERIAL, SHOP ORDER, and MORE INFO. The data rows are:

PARENT CONTAINER	CONTAINER	CONTENTS	QTY	CONTAINER NAME/MATERIAL	SHOP ORDER	MORE INFO
	CN6	<a href="#">CN4</a>		BOX_1		<a href="#">Container</a>
	CN6	<a href="#">CN5</a>		BOX_2		<a href="#">Container</a>
	CN6	<a href="#">CN7</a>		BOX_1		<a href="#">Container</a>
	CN6	<a href="#">CN8</a>		BOX_2		<a href="#">Container</a>

End of Data

38. Select the hyperlink for container number CN7

39. The system displays the packing report for container CN7



The screenshot shows the SAP Packing Report interface. At the top, it says "PACKING REPORT" and "Show Results in New Window". Below that, the site is set to "BOBJ". The "Container Number" is set to "CN6". A "Search" button is visible. The report header shows "Container Number: CN7" and "Site: BOBJ". The table below has columns: PARENT CONTAINER, CONTAINER, CONTENTS, QTY, CONTAINER NAME/MATERIAL, SHOP ORDER, and MORE INFO. The data rows are:

PARENT CONTAINER	CONTAINER	CONTENTS	QTY	CONTAINER NAME/MATERIAL	SHOP ORDER	MORE INFO
<a href="#">CN6</a>	CN7	AUX_GEAR_L-000012	1	AUX_GEAR_L	AUX_GEAR_L_000002	<a href="#">Container Member</a>
<a href="#">CN6</a>	CN7	AUX_GEAR_R-000012	1	AUX_GEAR_R	AUX_GEAR_R_000002	<a href="#">Container Member</a>

End of Data

40. Select the hyperlink for parent container number CN6

41. Select the hyperlink for container number CN8

42. The system displays the packing report for container CN8

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**PACKING REPORT** Show Results in New Window

\*Site: BOBJ

Container Number: CN6

---

**PACKING REPORT** Site: BOBJ

Container Number: CN8

PARENT CONTAINER	CONTAINER	CONTENTS	QTY	CONTAINER NAME/MATERIAL	SHOP ORDER	MORE INFO
CN6	CN8	DRIVE_GEAR-000012	1	DRIVE_GEAR	20111110-1	<a href="#">Container Member</a>
<b>End of Data</b>						

43. Run the SFC Report for SFC AUX\_GEAR\_L-000012

**SFC REPORT**

Site: BOBJ      SFC Status: All      SFC: AUX\_GEAR\_L-000012  
Order Type: Production      Work Center Category: All

SFC	STATUS	MATERIAL/VERS.	ORDER TYPE	OPERATION	SHOP ORDER	QTY	MORE INFO
<a href="#">AUX_GEAR_L-000012</a>	In Queue	AUX_GEAR_L/A	Production	MILL_GEAR	AUX_GEAR_L_000002	1	<a href="#">SFC Step Detail</a> , <a href="#">As-Built</a> , <a href="#">NC Log</a>
<b>End of Data</b>							

44. The report shows that this SFC went from a status of New to a status of In Queue

45. Run the SFC Report for SFC AUX\_GEAR\_R-000012

**SFC REPORT**

Site: BOBJ      SFC Status: All      SFC: AUX\_GEAR\_R-000012  
Order Type: Production      Work Center Category: All

SFC	STATUS	MATERIAL/VERS.	ORDER TYPE	OPERATION	SHOP ORDER	QTY	MORE INFO
<a href="#">AUX_GEAR_R-000012</a>	In Queue	AUX_GEAR_R/A	Production	MILL_GEAR	AUX_GEAR_R_000002	1	<a href="#">SFC Step Detail</a> , <a href="#">As-Built</a> , <a href="#">NC Log</a>
<b>End of Data</b>							

46. The report shows that this SFC remained in a status of In Queue

47. Run the SFC Report for SFC DRIVE\_GEAR-000014

**SFC REPORT**

Site: BOBJ      SFC Status: All      SFC: DRIVE\_GEAR-000014  
Order Type: Production      Work Center Category: All

SFC	STATUS	MATERIAL/VERS.	ORDER TYPE	OPERATION	SHOP ORDER	QTY	MORE INFO
<a href="#">DRIVE_GEAR-000014</a>	Active	DRIVE_GEAR/A	Production	MILL_GEAR	20111202-3	1	<a href="#">SFC Step Detail</a> , <a href="#">As-Built</a> , <a href="#">NC Log</a>
<b>End of Data</b>							

48. The report shows that this SFC remained in a status of Active

## 7 Links to Additional Information

[SAP ME online Help](#)

## 8 Other Reference Material

SAP ME How-To-Guide – Setting up Activity Hooks

SAP ME How-To-Guide – Setting up Activity Rules

SAP ME How-To-Guide – Setting up Production Lines

## 9 Overview of Changes

Not Applicable