Order Engineering Workbench: Processing Order BOMs

CUSTOMER
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Icons in Body Text

<table>
<thead>
<tr>
<th>Icon</th>
<th>Meaning</th>
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<tbody>
<tr>
<td>![Caution Icon]</td>
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<td>![Example Icon]</td>
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<tr>
<td>![Syntax Icon]</td>
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</tbody>
</table>

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

Typographic Conventions

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

Companies that work with make-to-order productions must be able to react quickly and flexibly to different customer requirements. For example, products in plant engineering and construction, as well as in mechanical engineering, are very complex and customer-specific. In response to customer requirements, the BOMs in construction have to be reprocessed.

The changes that the engineering department makes to an assembly to meet the customer's requirements are saved in the order BOM. The material BOMs of the configurable material are not changed. This allows the engineering department the greatest possible freedom with the customer-specific development.

Order engineering workbench provides an clearly defined working environment and easy-to-use functions for you to process order BOMs.

Integration

You can process order BOMs using standard transaction CU51. The advantages of the order engineering workbench are predominantly in its clear definition, user-friendliness, and versioning capabilities.

For more information, see [https://help.sap.com SAP Business Suite] SAP ERP > SAP ERP Central Component > Logistics > Production Planning and Control > Basic Data (PP-BD) > Order BOMs (PP-BD-BOM).

Features

Order engineering workbench provides the following special functions for you to process order BOMs:

- Display of Order BOM in Tree Structure [Page 6]
- Order BOM Processing [Page 6]
- Characteristic Display and Processing [Page 7]
- Saving of Order BOM Version [Page 8]
- Display of Version and Current Order BOM [Page 9]
- Import of Order BOM Version [Page 10]
- Transfer of Data from Version to Current Order BOM [Page 10]
- Deletion of Order BOM Version [Page 11]

Activities

To access the order engineering workbench, call transaction /N/OEWB/MAIN.
Display of Order BOM in Tree Structure

For a summarized display that enables easy-to-use, practical, and manual processing of order BOMs, you can display the order BOMs with their different levels in a tree structure.

Features

The following functions are available for you to display the order BOM:

- You restrict the search for the required order BOM using criteria such as Customer or Sales Organization.
  
The system displays the order BOM in a tree structure. The associated materials are arranged in a hierarchical structure below the top node in the hierarchy.

- You can display information about the order BOM items in the tree structure by choosing Layout. You can select information that you want to view in the tree structure from the column set, for example, Quantity or Material Number.

  Show the Values column at all times since the green checkmark that it contains indicates that a material can be configured. You can therefore display characteristic value assignments for this material.

  For more information, see Characteristic Display and Processing [Page 7].

- You can display the master data for all materials in the order BOM by choosing Display Material from the context menu.

- You can display the details for an item in the order BOM by choosing Order BOM Item Details from the context menu.

- You can display the order BOM as a multilevel BOM. This view provides additional information, such as the material BOMs of lower-level components. You can switch to this view by choosing Multi-Level BOM Display from the context menu.

Activities

To access the order BOM in order engineering workbench, call transaction /N/OEWB/MAIN.

Order BOM Processing

The order engineering workbench provides easy-to-use functions that allow you to process an order BOM.

Features

You can process an order BOM in the following ways:
- You can find materials in the order BOM. This is useful if you are processing complex and extensive order BOMs.

  You can start the search by choosing **Find**.

- You can print the order BOM displayed by choosing **Print**.

- You can add new materials to the order BOM.

  Select the required item from the tree structure of the order BOM and choose **Add New Item** from the context menu. You can restrict the required material using the find function before you select it.

- You can delete materials from the order BOM.

  Select the required material, choose **Cut**, and save the order BOM. The cut material is then deleted.

- You can move materials within the order BOM hierarchy.

  Use the pushbuttons **Copy**, **Cut**, and **Paste** or move the materials by drag & drop.

- You can change the detailed data for materials in the sales order, for example, by increasing the quantity from 2 to 3.

  Select the required material and choose **Change** from the context menu.

- You can change the characteristic values of configurable materials.

  Select the required material and choose **Configure Material** from the context menu.

  For more information, see **Characteristic Display and Processing [Page 7]**.

  ![](image)

  Configurable materials are indicated by a green checkmark in the **Values** column.

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**Characteristic Display and Processing**

Order engineering workbench allows you to display an overview of a material's characteristic values and process these values easily.

**Prerequisites**

The required material can be configured. Configurable materials are indicated in the tree structure by a green checkmark in the **Values** column.

For more information about displaying columns, see **Order BOM Display in Tree Structure [Page 6]**.
**Features**

**Displaying Characteristic Values for Material**

To display characteristic values for a material, double-click the green checkmark in the *Values* column in the tree structure.

The system displays the characteristic values defined for the material. You cannot change these settings.

**Editing Characteristic Values for Material**

To edit characteristic values, select the required material and choose *Configure Material* from the context menu.

The system displays the table of existing characteristics and the characteristic values defined.

You can then edit the characteristic values. By choosing *Display Object Dependency*, you can display information about the mutual dependencies of characteristics and characteristic values.

Functions for easy processing are also available, such as the find function or the pushbutton for navigating directly to other characteristics.

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**Saving of Order BOM Version**

While you are processing the order BOMs, you can save the order BOM processing status as a separate version at any time. A version contains the multilevel hierarchy of order BOM materials and all existing characteristic value assignments, including those from configurable materials at lower levels. You cannot change the data of a version.

**Prerequisites**

- You have defined milestones that describe the time at which you create the order BOM version.
  
  You use transaction `/N/OEWB/TMST`.

- For each plant, you can create a milestone that is used by default when you save a version.
  
  You use transaction `/N/OEWB/TMSD`.

**Features**

To save versions of an order BOM, note the following:

- To save an order BOM, choose *Create Version*. You create a milestone for the version to be saved. This milestone describes the time of save within the project flow, for example *Initial Version*.

- You can save any number of order BOM versions.

- Once you have saved an order BOM version, you cannot change it. However, you can use the following functions for the order BOM version:
To compare statuses, you can display the version of an order BOM along with the order BOM that is currently to be processed.

For more information, see Display of Version and Order BOM [Page 9].

To reinstate a previous status of an order BOM, you can import a version of an order BOM to the order BOM that is currently to be processed.

For more information, see Import of Order BOM Version [Page 10].

If you do not want to overwrite the entire order BOM with a previous version, but you only want to transfer parts, you can transfer data from the order BOM version to the current BOM.

For more information, see Transfer of Data from Version to Current Order BOM [Page 10].

At the end of a project phase, you can delete the interim statuses of an order BOM.

For more information, see Delete of Order BOM Version [Page 11].

Display of Version and Current Order BOM

You can display your current order BOM and a version of this order BOM at the same time if, for example, you want to compare the contents. You can also display the version of another order BOM, such as a similar sales order in the past.

Prerequisites
You have saved at least one version of the order BOM.

For more information, see Saving of Order BOM Version [Page 8].

Activities
1. To access the order engineering workbench, call transaction /N/OEWB/MAIN.
2. To select the current order BOM, enter the relevant criteria in the Order BOM group box.
3. You can display the version of an order BOM alongside the current order BOM in the following ways:
   - In the Version group box, enter the number of the required order BOM version.
   - If you want to display the version of your current BOM that you last saved, choose Last Version.

The system displays your current order BOM and the version alongside one another. The current order BOM is displayed on the left and the version is displayed on the right.
**Import of Order BOM Version**

You can import a saved version of the order BOM in full to the order BOM that is currently to be processed. This is useful if you want to discard all of your changes. The system overwrites the current order BOM with the earlier version.

You should import an order BOM in full only in exceptional cases. It is more usual for you to copy parts of an order BOM version to the current order BOM.

For more information, see Transfer of Data from Version to Current Order BOM [Page 10].

**Prerequisites**

You have saved at least one version of your order BOM.

For more information, see Save Version of Order BOM [Page 8].

**Activities**

1. To import a version of the order BOM, choose Order BOM Functions Import Version.

2. Choose the required version using the search criteria such as Sales Document and Item.

The system overwrites the current order BOM with the selected version.

**Transfer of Data from Version to Current Order BOM**

You can display the order BOM that is currently to be processed alongside a saved version of an order BOM. If, for example, you want to undo changes that you made to a material, you can quickly and easily copy data from the order BOM version to the current order BOM.

**Prerequisites**

You have a version of the order BOM open alongside the current version of the order BOM.

For more information, see Display of Version and Current Order BOM [Page 9].

**Features**

- You can transfer materials from the order BOM version to the current BOM using drag & drop. You can also use the Copy and Paste functions.

- When you copy material, the system copies both the selected material and its characteristic values.
• If you want to transfer a material, the system checks whether an item can be added to the location you specified in the current order BOM. If an item cannot be added to this location, the system issues a message.

Deletion of Order BOM Version

Once a sales order has been completed, you use this report to delete any intermediate statuses of the order BOM that you saved but no longer require. The report deletes all saved versions of the order BOM except the version that you last saved.

Prerequisites

There are at least two versions of an order BOM.

For more information, see Saving of Order BOM Version [Page 8].

Activities

1. To execute the report, call transaction /N/OEWB/VRSD.

2. Enter your criteria in the Sales Order and Sales Order Item group boxes.

   To delete only those versions to which you assigned a specific milestone, enter the required milestone.

3. Execute the report.

   The system deletes all versions that meet your search criteria.