

PM Plant Maintenance

SAP ERP Central Component

Release 6.0

Release Notes



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16 PM Plant Maintenance

16.1 Structural Changes to the IMG for Plant Maintenance/Customer Service

Use

As of *SAP ECC 6.0 (SAP_APPL 600)*, the structure of the Implementation Guide (IMG) for the component *Plant Maintenance and Customer Service* has changed. To transfer these changes to the project IMGs, you must regenerate the project IMGs.

New IMG Activities

- *Area Maintenance and Service Processing*
 - *Maintenance and Service Orders -> Functions and Settings for Order Types -> Basic Order View*: All IMG activities in this area are new.
 - *Mobile Asset Management -> Define Triggers for Push Messages*
- *Area Work Clearance Management -> Lockout/Tagout -> Mobile Processing*: All IMG activities in this area are new.
- *Area System Enhancements and Data Transfer -> Business-Add Ins -> Change of Equipment History*: All BAdIs in this area are new.

In addition, the following changes to other components affect the *Plant Maintenance (PM)* component:

- *Role Maintenance Technician*
Area Integration with Other SAP Components -> Business Packages / Functional Packages -> Maintenance Technician: All IMG activities in this area are new.
- *Search Engine Service*
Area SAP Web Application Server -> System Administration -> Search Engine Service: All IMG activities in this area are new.

16.2 Maintenance Technician Role (New)

Use

As of *SAP ECC 6.0, PLM Extension (EA-APPL 600)*, the role *Maintenance Technician* is available in the portal. This role, which includes the workset *Maintenance Technology* contains numerous functions related to the daily tasks of a maintenance technician. The technicians can find the information relevant to their tasks quickly and easily, as well as confirm their work.

Overview

- The **work overview** provides a personal worklist for maintenance/service notifications, and maintenance/service orders. It allows direct access to the confirmation transaction. From the overview, you can also create new notifications and orders, as well as call up after-event order recording.
- The **technical structure view** allows you to display the structure of technical objects, and remove, install or exchange equipment. The technical structure view also displays the next maintenance date for a technical object and the number of spare parts that are currently available in the plant.

Reports

You can use this workset to evaluate your plant maintenance data and create reports.

Service Map

Applications that are required by a maintenance technician are grouped together in the Service Map. The following functions are available:

- **Confirmation**
 - Create confirmation
You can confirm your working time, create goods movements, or add details to notifications.
 - After-event order recording
Using after-event order recording, you can document unplanned and urgent maintenance tasks by creating an order and confirming it in the same work step.
- **Notifications**
You can create, change and display notifications. This function is supplied with the example notification types "malfunction report" and "maintenance request".
- **Orders**
You can create, change and display orders. This function is supplied with the example order types "maintenance order" and "maintenance plan order".

In addition, you can call several relevant transactions in the ERP system from the Service Map.

- Display equipment or functional location
- Change and display notification
- Process and display task
- Create measurement document

Effects on Existing Data

This role provides maintenance technicians with access to the data that is relevant for them. This data comes from the underlying ERP systems, for example maintenance/service orders, maintenance/service notifications, pieces of equipment, and functional locations.

Effects on System Administration

System administrators can make predefined settings for worklists. The users can also make further selection restrictions.

Effects on Customizing

Make the settings for the LaunchPad in Customizing under *Integration with Other SAP Components* -> *Business Packages / Functional Packages* -> *Maintenance Technician*.

Make the settings for your personalized worklist in Customizing under *Cross-Application Components* -> *General Application Functions* -> *Generic Functions of mySAP Suite* -> *Personal Object Worklist*.

Make the personalization settings in Customizing under *Cross-Application Components* -> *General Application Functions* -> *Generic Functions of mySAP Suite* -> *Personalization*.

See also

For more information, see the *Business Package for Maintenance Technician* under the *Plant Maintenance (PM)* component in the SAP Library.

16.3 PM-EQM Technical Objects

16.3.1 New Functions in the Structure List (Enhanced)

Use

As of *SAP ECC 6.0 (SAP_APPL 600)*, the structure list for technical objects has the following new functions:

- You can decide whether or not to also display technical objects that are flagged for deletion in the structure list.
- You can refresh the structure displayed. The following restrictions apply to a refresh:
 - If under a technical object in the structure, there is a BOM with identical substructures, the system cannot distinguish between these when you refresh. Thus, when you refresh, the identical substructures are expanded in the same way, even if they were expanded differently before you refreshed.
 - The same applies for identical substructures in an installation for a piece of equipment.
 - If refreshing changes the structure, then only the nodes that were already expanded are expanded again. New objects are not expanded any further.

16.3.2 PM-EQM-EQ Equipment

16.3.2.1 Enhancements in BAPI for Business Object PieceOfEquipment (Enhanced)

Use

As of *SAP ECC 6.0 (SAP_APPL 600)*, you can use the BAPI for the PieceOfEquipment business object to process vehicle data. The BAPI methods *Create*, *Change* and *GetDetail* were enhanced to allow the processing of vehicle-specific data.

- Create
Now vehicle-specific data can also be included when equipment is created.
- Change
Now the vehicle-specific data of a piece of equipment can also be changed.
- GetDetail
If vehicle-specific data exists, it is made available.

16.3.2.2 Change of Equipment History (New)

Use

As of *SAP ECC 6.0 (SAP_APPL 600)*, you can make back-dated changes to the equipment history. In the process, the following data is taken into consideration and corrected:

- Equipment master data and equipment history
- Definition of the measurement reading transfer and adjustment of the corresponding measurement documents
- Notifications that affect installation, removal, and exchange

Effects on Customizing

A Business Add-In is available in Customizing.

See also

For more information, see the SAP Library for the component *Plant Maintenance (PM)* and *Customer Service (CS)*.

16.3.2.3 Change of Equipment History: BAdIs (New)

Use

As of *SAP ECC 6.0, PLM Extension (EA-APPL 600)*, you can make back-dated changes to the equipment history.

Effects on Customizing

Business Add-Ins (BAdIs) are available in Customizing.

See also

For more information, see the release note *Change of Equipment History (New)*.

16.3.2.4 Connection of Objects to a Search Engine (New)

Use

As of *SAP ECC 6.0, SAP_APPL 600*, you can use enhanced search functionality for a range of master data. This includes a quick search and an advanced search. To implement this, the affected objects are connected to TREX, SAP's search engine.

- In the **quick search** you enter a search term. An object is found if the word occurs in the object, regardless of which field of the object the word occurs in. The search also includes texts that are assigned to the object.
- The **advanced search** is the same as the quick search, but offers some additional fields (attributes) on the selection screen, which you can use to filter the hit list according to your requirements.

The search is not case sensitive. The search term "SEARCH" finds the same hits as the term "search". Both terms also find "Search" and "seaRCh". You can activate fuzzy search for both searches. If fuzzy search is active, similar terms are also found, for example, typing errors that have been created in the system. If you enter "Search" and activate fuzzy search, the system also finds the term "Saerch".

Starting the search

1. Call an object for which the search engine service is already active (for example, functional location).

2. On the initial screen, choose the possible entries for the object, then you see the matchcode selection.

When the search engine service is active, you see two new matchcodes, in this case:

- Quick Search of Functional Location via Search Engine
- Advanced Search of Functional Location via Search Engine

Effects on System Administration

In transaction COM_SE_ADMIN you can display a list of existing indexes for objects. In other words, you see the objects for which the search engine service has already been activated.

To display all the other objects for which the search engine service is available and can be activated, choose *Index -> Create/Activate Indexes*.

Note that the search engine service **cannot** search some fields in some accounting objects. For information about the objects and fields that are affected, see SAP Note 853064.

Effects on Customizing

Make the settings in Customizing under *SAP NetWeaver -> Application Server -> System Administration -> Search Engine Service*.

See also

For more information, see SAP Library under SAP Search Engine TREX.

16.3.3 PM-EQM-FL Functional Locations

16.3.3.1 Connection of Objects to a Search Engine (New)

Use

As of *SAP ECC 6.0*, *SAP_APPL 600*, you can use enhanced search functionality for a range of master data. This includes a quick search and an advanced search. To implement this, the affected objects are connected to TREX, SAP's search engine.

- In the **quick search** you enter a search term. An object is found if the word occurs in the object, regardless of which field of the object the word occurs in. The search also includes texts that are assigned to the object.
- The **advanced search** is the same as the quick search, but offers some additional fields (attributes) on the selection screen, which you can use to filter the hit list according to your requirements.

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Starting the search

1. Call an object for which the search engine service is already active (for example, functional location).
2. On the initial screen, choose the possible entries for the object, then you see the matchcode selection.

When the search engine service is active, you see two new matchcodes, in this case:

- Quick Search of Functional Location via Search Engine
- Advanced Search of Functional Location via Search Engine

Effects on System Administration

In transaction COM_SE_ADMIN you can display a list of existing indexes for objects. In other words, you see the objects for which the search engine service has already been activated.

To display all the other objects for which the search engine service is available and can be activated, choose *Index -> Create/Activate Indexes*.

Note that the search engine service **cannot** search some fields in some accounting objects. For information about the objects and fields that are affected, see SAP Note 853064.

Effects on Customizing

Make the settings in Customizing under *SAP NetWeaver -> Application Server -> System Administration -> Search Engine Service*.

See also

For more information, see SAP Library under SAP Search Engine TREX.

16.4 PM-PRM**Preventive Maintenance****16.4.1 PM-PRM-MP****Maintenance Plans****16.4.1.1 Graphical Maintenance Scheduling Overview and Simulation (Changed)****Use**

As of *SAP ECC 6.0 (SAP_APPL 600)*, you can use the tabular display and the tabular display with navigation tree for the maintenance plan scheduling overview and simulation (transaction IPI9) as an alternative to the graphical display.

On the selection screen for the maintenance plan scheduling overview, in the area for *Display of Maintenance Plan Scheduling Overview* you can choose between the three forms of display

mentioned above.

Due to the enhancement of the transaction IP19, the description *Graphical Maintenance Plan Scheduling Overview and Simulation* was changed to *Maintenance Plan Scheduling Overview and Simulation*.

16.5 PM-WOC Maintenance Processing

16.5.1 BAPI: MaintenanceOrderBAPI (Enhanced)

Use

As of *SAP ECC 6.0, PLM Extension (EA-APPL 600)*, you can use the BAPI *MaintenanceOrderBAPI* (method *OrderMaintain*) to execute the following new functions:

- Create orders with notification
- Create order for existing notification
- Create, change, and delete object list entries
- Create, change, and delete settlement rule

The method *OrderGetDetail* now also supports the reading of settlement rules for an order.

16.5.2 Document Flow (Changed)

Use

As of *SAP ECC 6.0 (SAP_APPL 600)*, the document flow uses the SAP List Viewer.

The differences from the classic list are as follows:

- Detailed data for a document is shown in the lower screen area.

- The overview of the individual documents and the detailed data for one document can be printed out separately.

See also

For more information, see the SAP Library in the component *Plant Maintenance (PM)* or *Customer Service (CS)* under *Document Flow*.

16.5.3 Use of the SAP List Viewer (Changed)

Use

As of *SAP ECC 6.0*, *SAP_APPL 600* you have the option of using the *SAP List Viewer* in the following transactions:

- CA70 - Use of PRT in Task Lists
- CA72 - PRT Usage in PM Routings
- CA75 - Replace PRT in Task Lists
- CA77 - PRT Mass Change in PM Routings
- CA80 - Work Center Where-Used
- CA82 - Work Center Where-Used (for plant maintenance or customer service)
- CA85 - Replace Work Center
- CA87 - Replace Work Center (for plant maintenance or customer service)
- CA90 - Use of Reference Operation Set in Task Lists
- CA95 - Replace Reference Operation Set (in task lists)

To do this, choose *System -> User Profile -> Own Data* and set parameter *ACC_MODE* to **X**.

This makes the following changes for **all** transactions:

- On the initial screen, the *Choose overview variant* pushbutton is missing. This means that you cannot influence the display structure.
- You cannot print the display structure.
- To display information in the objects in a task list, choose *Choose* or *Detail*.
- You can no longer display information about the task list header or the sequence (CA70 or CA75) in a task list by using a checkbox. Instead, you choose *Choose* or *Detail*. You see information about the selected object. By choosing *Back*, you display more information about the selected task list.

The following changes apply to mass replacement (CA75, CA85, CA95):

- You can no longer make changes in the overview.

See also

For more information, see the SAP Library for the component.

16.5.4 PM-WOC-MN Maintenance Notifications

16.5.4.1 Mass Changing of Notifications and Orders (New)

Use

As of *SAP ECC 6.0, PLM Extension (EA-APPL 600)*, you can simultaneously make changes to field contents in several notifications or orders in list processing. You can execute the mass changes in the background.

To check if a mass change that ran in the background was successful, call transaction SLG1 and look at the log for the object PM_MASS.

See also

For more information, see *Maintenance Processing* or *Service Processing* under *Performing Mass Changes* in the SAP Library.

16.5.5 PM-WOC-MO Maintenance Orders

16.5.5.1 Basic Order View (New)

Use

As of *SAP ECC 6.0, PLM Extension (EA-PPL 600)*, you can define view profiles for the basic order view. Thus, you yourself can define which fields appear on the tab pages of an order.

Effects on Customizing

You have made the following settings in Customizing:

- You have defined view profiles.
- You have assigned the view profiles to the order types.

16.5.5.2 Mass Changing of Notifications and Orders (New)

Use

As of *SAP ECC 6.0, PLM Extension (EA-APPL 600)*, you can simultaneously make changes to field contents in several notifications or orders in list processing. You can execute the mass changes in the background.

To check if a mass change that ran in the background was successful, call transaction SLG1 and look at the log for the object PM_MASS.

See also

For more information, see *Maintenance Processing* or *Service Processing* under *Performing Mass Changes* in the SAP Library.

16.5.6 PM-WOC-JC Completion Confirmations

16.5.6.1 Mass Cancellation of Confirmations (New)

Use

As of *SAP ECC 6.0 (SAP_APPL 600)*, you can cancel several confirmations at once without having to display the individual confirmations one after the other.

The mass cancellation function is integrated in the confirmation list.

See also

For more information, see *Mass Cancellation* under the component *Maintenance Processing* or *Service Processing* in the SAP Library.

16.6 PM-WCM Work Clearance Management

16.6.1 Mobile Processing of Operational Lists (New)

Use

As of *SAP ECC 6.0, PLM Extension (EA-APPL 600)*, you can use mobile processing for operational lists in Work Clearance Management.

Effects on Customizing

In Customizing for Work Clearance Management, you have made the following settings:

- You have activated mobile processing in the respective use of the Operational WCD:
- You have made both the general and the plant-specific settings for the mobile device.

See also

For more information, see the component *Work Clearance Management (PM-WCM)* in the SAP Library.