Plant Maintenance and Customer Service (PM/CS)

Release 4.6C
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<td>![Example Icon]</td>
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<td>![Note Icon]</td>
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<td>Residence Time (PM-SMA-SC)</td>
<td>81</td>
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<tr>
<td>Authorizations (PM-SMA-SC)</td>
<td>82</td>
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<td>Calling Up Archiving for Service Notifications (PM-SMA-SC)</td>
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<td>Initial Run Log for Service Notifications (PM-SMA-SC)</td>
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<tr>
<td>Archiving Log for Service Notifications (PM-SMA-SC)</td>
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### Plant Maintenance and Customer Service (PM/CS)

The following table shows the available archiving objects:

<table>
<thead>
<tr>
<th>Objects</th>
<th>Archiving Object</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pieces of equipment</td>
<td>PM_EQUI [Page 8]</td>
</tr>
<tr>
<td>Functional locations</td>
<td>PM_IFLOT [Page 23]</td>
</tr>
<tr>
<td>Serial number history</td>
<td>PM_OBJLIST [Page 39]</td>
</tr>
<tr>
<td>Measurement documents</td>
<td>PM_IMRG [Page 47]</td>
</tr>
<tr>
<td>Maintenance notifications</td>
<td>PM_QMEL [Page 61]</td>
</tr>
<tr>
<td>Service notifications</td>
<td>SM_QMEL [Page 74]</td>
</tr>
<tr>
<td>Maintenance and service orders</td>
<td>PM_ORDER [Page 87]</td>
</tr>
<tr>
<td>Task lists</td>
<td>PM_PLAN [Page 103]</td>
</tr>
<tr>
<td>Maintenance plans</td>
<td>PM_MPLAN [Page 117]</td>
</tr>
</tbody>
</table>
Archiving of Equipment (CS-BD/PM-EQM-EQ)

Definition

Archiving object [Ext.] with which you can archive equipment in the Plant Maintenance application component.

Structure

The archiving object PM_EQUI for equipment comprises the following tables:

<table>
<thead>
<tr>
<th>Table</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQUI</td>
<td>Equipment master data</td>
</tr>
<tr>
<td>EQKT</td>
<td>Multilingual equipment short texts, long texts, and internal remarks</td>
</tr>
<tr>
<td>EQUZ</td>
<td>Equipment time segments</td>
</tr>
<tr>
<td>ILOA</td>
<td>Location and account assignment data for the maintenance object</td>
</tr>
<tr>
<td>IHSG</td>
<td>Table of permits for Plant Maintenance with long texts</td>
</tr>
<tr>
<td>IHPA</td>
<td>Partners</td>
</tr>
<tr>
<td>FLEET</td>
<td>Fleet object-specific data for technical objects</td>
</tr>
</tbody>
</table>
Application-Specific Features (CS-BD/PM-EQM-EQ)

Use
You can archive equipment master data that you no longer need to access directly in the system using the archiving program. The data is written to the archive files and then deleted from the system if the operation was successful.

You can archive and delete equipment master data using the archiving object [Ext.] PM_EQUI.

You can archive equipment while the online operation is in process.

Features

Initial Run
The initial run program prepares the data in the database for archiving. The deletion flags, with which you flagged the equipment you want to archive are also assigned the system status Deletion indicator in the initial run program. However, note that processing can only take place if the system determines equipment is not being used elsewhere in the system.

The initial run generates a log [Page 20].

Archiving
The archiving program writes the database tables of the pieces of equipment listed under the object definition [Page 8] to the archive.

When Start automatically is set for the deletion program in Customizing of Archiving [Ext.], and a productive variant is selected for the archiving program, the system starts the deletion program in connection with its productive variant. This means that the system deletes the archived data from the database.

The archiving program generates a log [Page 21].

Deleting
The deletion program deletes all database records for the pieces of equipment which were successfully archived.

If the deletion program is not called up automatically after the activity Archive has been completed successfully, you must wait until all the archiving is completed. You can process an entire archiving session with all the archive files generated or you can select individual archive files for processing.

To avoid problems caused by data inconsistency, you should run the deletion program as near as possible to the archiving program.

The deletion program generates a log [Page 22].

Displaying

- You can display archived equipments using the Archiving Information System (see Displaying Archived Equipment [Page 19]).
You can display statistical data for the archive file. Choose *Evaluate* in the initial screen for archiving equipment.
Checks (CS-BD/PM-EQM-EQ)

Use

Before archiving, the system must determine whether the equipment is in use elsewhere in the system (for example, in a task list). For this purpose, usage checks are made for the individual pieces of equipment.

Prerequisites

The equipment master record must have the status Deletion flag set before it can be archived.

For more information about setting deletion flags, see Setting Deletion Flags for Equipment [Ext.] (Plant Maintenance - Structuring Technical Systems).

Features

The section ‘Checks for equipment’ describes the chronological sequence the system uses to check for usage. As soon as the system determines that the equipment is being used, the status DLT (Deletion indicator, to be archived) cannot be set for that piece of equipment.

The system checks the following information for individual pieces of equipment:

- Usage as equipment number
- Usage as superior equipment
- Usage as equipment affected

You can use report RIARCEQ1 to display a where-used list for pieces of equipment which are still used in the system.

For more information about the exact procedure, see Displaying Where-Used Lists - Equipment (PM-EQM-EQ) [Page 18].

The following tables describe the chronological order in which the system checks for equipment usage. As soon as the system determines that the equipment is being used, the status DLT (Deletion indicator, to be archived) cannot be set for that piece of equipment.

Usage as equipment number

<table>
<thead>
<tr>
<th>Check Criteria</th>
<th>The system cannot set the deletion indicator if</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment master data</td>
<td>it is configured.</td>
</tr>
<tr>
<td>Task list</td>
<td>a task list is assigned.</td>
</tr>
<tr>
<td>Bill of material</td>
<td>it is included in a bill of material.</td>
</tr>
<tr>
<td>Order header</td>
<td>it is included in an order header.</td>
</tr>
<tr>
<td>Notification</td>
<td>It is entered as the reference object in a notification (for example, maintenance notification, or quality notification).</td>
</tr>
</tbody>
</table>
Checks (CS-BD/PM-EQM-EQ)

<table>
<thead>
<tr>
<th>Maintenance item</th>
<th>It is included in a maintenance item.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Object list</td>
<td>It is included in an object list.</td>
</tr>
<tr>
<td>Object link</td>
<td>It is included in an object network.</td>
</tr>
<tr>
<td>Measuring point</td>
<td>A measuring point is assigned to it.</td>
</tr>
<tr>
<td>Document link</td>
<td>A document is assigned to it.</td>
</tr>
<tr>
<td>Historical order master data</td>
<td>It is included in a historical order.</td>
</tr>
<tr>
<td>WBS element (work breakdown structure element) master data</td>
<td>It is included in the master data of a WBS element.</td>
</tr>
<tr>
<td>Sampling table</td>
<td>It is integrated in a sampling table.</td>
</tr>
</tbody>
</table>

Usage as superior equipment

<table>
<thead>
<tr>
<th>Check Criteria</th>
<th>The system cannot set the deletion indicator if</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment time segment</td>
<td>It is a <strong>superior piece of equipment</strong> in an equipment hierarchy containing superior and sub-pieces of equipment.</td>
</tr>
</tbody>
</table>

Usage as equipment affected

<table>
<thead>
<tr>
<th>Check Criteria</th>
<th>The system cannot set the deletion indicator if</th>
</tr>
</thead>
<tbody>
<tr>
<td>Notification</td>
<td>It is included in a notification (for example, maintenance notification, quality notification) as an <strong>affected</strong> equipment.</td>
</tr>
<tr>
<td></td>
<td>(For example, a notification is entered owing to a defective PC, although the CPU is the affected equipment.)</td>
</tr>
</tbody>
</table>

For more detailed information on how to remove found usages, see the message long text in which the usages found in the system are displayed.
Application Customizing (CS-BD/PM-EQM-EQ)

Use

In the Customizing of Archiving, you can adjust the settings for archiving sessions specifically for individual archiving objects.

Cross-client archiving cannot be performed.

You can run the archiving program either in test mode or in productive mode. In test mode, no data is archived or deleted.

⚠️

In the Customizing of Archiving, the standard SAP setting for the deletion program is Start automatically. This means that all the data is automatically deleted once it has been successfully archived.

See also:

Customizing [Ext.]
Dependencies (CS-BD/PM-EQM-EQ)

Note the dependencies between archiving objects before you archive equipments using the archiving object `PM_EQUI`. Generally, you cannot archive data until dependent objects have been archived.

The table describes the objects that you must archive before you archive pieces of equipment:

<table>
<thead>
<tr>
<th>Archiving Object</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM_MPLAN</td>
<td>Maintenance plans</td>
</tr>
<tr>
<td>PM_OBJLIST</td>
<td>Serial number history</td>
</tr>
<tr>
<td>PM_ORDER</td>
<td>Service and maintenance orders</td>
</tr>
<tr>
<td>PMPLAN</td>
<td>Task lists</td>
</tr>
<tr>
<td>PM_QMEL</td>
<td>Maintenance notifications</td>
</tr>
</tbody>
</table>

For more information about the network graphic which shows the dependencies between archiving objects, see [The Network Graphic [Ext.]](#).
Residence Time (CS-BD/PM-EQM-EQ)

Some data must reside in the system for a specified length of time even if it is no longer being used (for example, for legal reasons). This is called the residence time. The data cannot be archived until it has been in the system for at least this length of time.

Since the residence time deals with a typical characteristic of movement data, master data in Plant Maintenance and Customer Service does not require a residence time.

Once the system establishes that a piece of equipment meets the requirements for archiving, it can archive the data **immediately**.

See also:

Residence/Retention Period [Ext.]
Authorizations (CS-BD/PM-EQM-EQ)

To archive equipment master data, you only require general archiving authorization.

See also:

Authorization Check [Ext.]
Calling Up Equipment Archiving (CS-BD/PM-EQM-EQ)

1. Choose *Tools → Administration → Administration → Archiving.*
   
   You reach the initial screen for archive management.

2. Enter the name of the archiving object (PM_EQUI for equipment) and choose *Continue.*
   
   The system displays the available activities belonging to the object.

3. You can now select and execute the required activities, for example, “Initial run”, “Archive”. 
Displaying Where-Used Lists for Equipment (CS-BD/PM-EQM-EQ)

Use
You can use the analysis report RIARCEQ1 (where-used lists for pieces of equipment) to display a verification list of the pieces of equipment still being used in the system and which therefore cannot be archived.

Procedure
2. Enter the report name RIARCEQ1 in the field Program.
3. Then choose one of the following options:
   - Program → Execute
   - Program → Execute with variant
   The system displays a list that shows exactly where each selected piece of equipment is used.

   ![Next Step]

   If you do not select the field Status check, the system displays equipment usage regardless of whether or not the equipment has a deletion flag.

   If you do mark the field Status check, the system checks whether the equipment has a deletion flag. The existing usages are only displayed if it does.

   If the selection is performed without delimitation of Equipment no., Equipment category, or Equipment type, the system only selects equipment for which the status DFLAG (Deletion flag) is set.
Displaying Archived Equipment (CS-BD/PM-EQM-EQ)

Use
You can display archived equipment using the Archiving Information System.

Features
The archiving information structure SAP_PM_EQUI has been created for display purposes in the Standard System. The information structure is based on the field catalog SAP_PM_EQUI and displays the following fields in the archived equipment:

- Equipment

You can also create your own information structures and define which fields the system should display. The following options are available in the field catalog SAP_PM_EQUI for this purpose:

- Year of construction
- Serial number
- Acquisition value
- Measuring point
- Location
- Cost center

If the fields in the catalog are insufficient, you can define your own field catalogs.

For more information on the Archiving Information System in general, as well as on creating new information structures and field catalogs, see Archiving Information System (SAP AS) [Ext.].
**Initial Run Log for Equipment (CS-BD/PM-EQM-EQ)**

**Definition**

The system creates a log when you perform the initial run program for archiving equipment as a background job. The log uses separate lists, defined according to **equipment category** and **equipment type**, to show how many pieces of equipment with deletion flags have been set with deletion indicators.

**Structure**

It contains the following information in detail:

- Selection criteria and parameter settings used
- Each piece of equipment processed
  - With the confirmation “System status DLT (Deletion indicator) set”
  - Exception messages
    - For example, if you executed the program in “test mode”, the where-used lists for each piece of equipment can be listed.
- Statistics regarding equipment master records processed

**See also:**

*Archive Management [Ext.]*
Archiving Log for Equipment (CS-BD/PM-EQM-EQ)

Definition
The system creates a log when you run the archiving program as a background job.

Structure
The log contains the following data:

- Selection criteria and parameter settings used
- Each piece of equipment processed, with exception messages if necessary
  For example, if you executed the program in "test mode", the where-used lists for each piece of equipment can be listed.
- Statistics for archived objects
- Number of archive files generated
- All administrative data
- Associated tables
- Number of table entries processed

If you make the settings for the archiving object PM_EQUI in Customizing according to the SAP standard, the deletion program will be run in a later job step automatically. This also generates a log [Page 22].

See also:
Archive Management [Ext.]
Deletion Program Log for Equipment (CS-BD/PM-EQM-EQ)

Definition
If you make the settings for the archiving object PM_EQUI in Customizing according to the SAP standard, the deletion program will be run in a later job step automatically. This also generates a log.

Structure
The deletion program contains the following data:

- Selection criteria and parameter settings used
- Statistics for the objects processed for each archiving session

See also:
Archive Management [Ext.]
Archiving of Functional Locations (CS-BD/PM-EQM-FL)

Definition

Archiving object [Ext.] with which you can archive functional locations in the Plant Maintenance and Customer Service application components.

Structure

The archiving object PM_IFLOT for functional locations consists of the following tables:

<table>
<thead>
<tr>
<th>Table</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFLOT</td>
<td>Functional location master data</td>
</tr>
<tr>
<td>IFLOS</td>
<td>Functional location labeling</td>
</tr>
<tr>
<td>IFLOTX</td>
<td>Multilingual short texts and long texts for the functional location</td>
</tr>
<tr>
<td>ILOA</td>
<td>Location and account assignment data for the maintenance object</td>
</tr>
<tr>
<td>IHPA</td>
<td>Partner</td>
</tr>
<tr>
<td>IHSG</td>
<td>Table of permits for Plant Maintenance with long texts</td>
</tr>
</tbody>
</table>
Application-Specific Features (CS-BD/PM-EQM-FL)

Use
You can archive functional location master data that you no longer need to access directly in the system by using the archiving program. The data is written to the archive files and then deleted from the system if the operation was successful.

You can archive and delete functional location master data using the archiving object [Ext.] PM_IFLOT.

You can archive functional locations while the online operation is in process.

Features

Initial Run
The initial run program prepares the data in the database for archiving. The deletion flags, with which you flagged the functional locations you want to archive are also assigned the system status Deletion indicator in the initial run program. However, note that processing can only take place if the system determines that these functional locations are not being used elsewhere.

The initial run generates a log [Page 36].

Archiving
The archiving program writes the database tables of the functional locations listed under the object definition [Page 23] to the archive.

If you have used alternative labels for functional locations, these will be archived but not deleted from the system.

⚠️

In the Customizing of Archiving, the standard SAP setting for the deletion program is Start automatically. This means that all the data is automatically deleted once it has been successfully archived.

The archiving program generates a log [Page 37].

Deleting
The deletion program deletes all database records for the functional locations which were successfully archived.

If the deletion program is not called up automatically after the activity Archive has been completed successfully, you must wait until all the archiving is completed. You can process an entire archiving session with all the archive files generated or you can select individual archive files for processing.

To avoid problems caused by data inconsistency, you should run the deletion program as near as possible to the archiving program.

The deletion program generates a log [Page 38].
Displaying

- You can display archived functional location using the Archiving Information System (see Displaying Archived Functional Locations (CS-BD/PM-EQM-FL) [Page 35]).

- You can display statistical data for the archive file. Choose *Evaluate* in the initial screen for archiving functional locations.
Checks (CS-BD/PM-EQM-FL)

Use

Before you can archive functional locations, the system must determine whether functional locations are being used elsewhere (for example, in a task list). For this purpose, the system performs usage checks for the individual functional locations.

Prerequisites

The status Deletion flag must be set for the functional location before archiving can be performed.

For more information about setting deletion flags, see Setting Deletion Flags for Functional Locations [Ext.] (Plant Maintenance - Structuring Technical Systems).

Features

The section Checks for Functional Locations describes the chronological sequence in which the possible usages in the system are checked. As soon as the system determines that the functional location is being used, you cannot set the status DLT (Deletion indicator, to be archived) for that functional location.

The system checks the following information for functional locations:

- Usage as functional location
- Usage as superior functional location:
- Usage as affected functional location

You can use the analysis report RIARCTP1, Where-Used Lists for a Functional Location [Page 33], to display a where-used list for functional locations that are still used in the system and therefore cannot be archived.

The following tables describe the chronological order in which the system checks for usage of functional locations. As soon as the system determines that the functional location is being used, the status DLT (Deletion indicator, to be archived) cannot be set for that functional location.

<table>
<thead>
<tr>
<th>Usage as Functional Location Check Criteria</th>
<th>The system can set the deletion indicator if</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location and account assignment for the maintenance object</td>
<td>an address is assigned to it.</td>
</tr>
<tr>
<td>Task list</td>
<td>a task list is assigned.</td>
</tr>
<tr>
<td>Bill of material</td>
<td>it is included in a bill of material.</td>
</tr>
<tr>
<td>Location and account assignment for the maintenance object</td>
<td>it is included in other account assignments for the maintenance object.</td>
</tr>
<tr>
<td>Measuring point</td>
<td>a measuring point is assigned to it.</td>
</tr>
<tr>
<td>Document link</td>
<td>a document is assigned to it.</td>
</tr>
</tbody>
</table>
Object link | it is included in an object network.
---|---
Order header | it is included in an order.
Historical order | it is included in a historical order.
Maintenance notification | it is included in a maintenance notification.
Object list | it is included in an object list.
WBS element (work breakdown structure element) | it is included in the master data of a WBS element.
Capital investment program | it is included in the item of a capital investment program.
Maintenance plan item | it is included in a maintenance plan item.

Usage as Superior Functional Location

Check Criteria | A functional location cannot be archived if
---|---
Functional location, master data | it is contained in a location hierarchy as a superior functional location.

Usage as Affected Functional Location

Check Criteria | A functional location cannot be archived if
---|---
Maintenance notification | it is contained in a maintenance notification as an affected functional location.

For more detailed information on how to remove found usages, see the message long text in which the usages found in the system are displayed.
Dependencies (CS-BD/PM-EQM-FL)

Note the dependencies between archiving objects before you archive functional locations using the archiving object **PM_IFLOT**. Generally, you cannot archive data until dependent objects have been archived.

The table describes the objects that you must archive before you archive pieces of equipment:

<table>
<thead>
<tr>
<th>Archiving Object</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM_EQUI</td>
<td>Pieces of equipment</td>
</tr>
<tr>
<td>PM_MPLAN</td>
<td>Maintenance plans</td>
</tr>
<tr>
<td>PM_ORDER</td>
<td>Service and maintenance orders</td>
</tr>
<tr>
<td>PM_PLAN</td>
<td>Task lists</td>
</tr>
<tr>
<td>PM_QMEL</td>
<td>Maintenance notifications</td>
</tr>
</tbody>
</table>

For more information about the network graphic which shows the dependencies between archiving objects, see [The Network Graphic [Ext.]](Ext.).
Residence Time (CS-BD/PM-EQM-FL)

Some data must reside in the system for a specified length of time even if it is no longer being used (for example, for legal reasons). This is called the residence time. The data cannot be archived until it has been in the system for at least this length of time.

Since the residence time deals with a typical characteristic of movement data, master data in Plant Maintenance and Customer Service does not require a residence time.

Once the system establishes that a functional location meets the requirements for archiving, it can archive the data immediately.

See also:

Residence/Retention Period [Ext.]
Application Customizing (CS-BD/PM-EQM-FL)

Use

In the Customizing of Archiving, you can adjust the settings for archiving sessions specifically for individual archiving objects.

Cross-client archiving cannot be performed.

You can run the archiving program either in test mode or in productive mode. In test mode, no data is archived or deleted.

⚠️

In the Customizing of Archiving, the standard SAP setting for the deletion program is Start automatically. This means that all the data is automatically deleted once it has been successfully archived.

See also:

Customizing: Overview [Ext.]
Authorizations (CS-BD/PM-EQM-FL)

To archive master data for functional locations, you only require general archiving authorization.

See also:

Authorization Check [Ext.]
Calling Up Functional Location Archiving (CS-BD/PM-EQM-FL)

1. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for archive management.

2. Enter the name of the object name (PM_EQUI for functional locations) and choose Continue.
   The system displays the available activities belonging to the object.

4. You can now select and execute the required activities, for example, “Initial run”, “Archive”.
Displaying Where-Used Lists for Functional Locations (CS-BD/PM-EQM-FL)

Use

You can use the analysis report RIIARCTP1 (where-used lists for functional locations) to display a verification list of the functional locations still being used in the system and which therefore cannot be archived.

Procedure

1. Choose Tools → ABAP Workbench → Development → ABAP Editor.
   
   You reach the ABAP Execute Program screen.
2. Enter the report name RIIARCTP1 in the field Program.
3. Choose one of the following options:
   
   *Program → Execute
   Program → Execute with variant

   The system displays a list that shows exactly where each functional location is used.

   If you do not mark the field Status check, the system displays usages regardless of whether or not the technical object has a deletion flag.

   If you do mark the field Status check, the system checks whether the technical object has a deletion flag. The existing usages are only displayed if it does.

   If the selection is performed without delimitation of Functional location, Functional location category, or Structure indicator, the system only selects functional locations for which the status DLT (Deletion indicator) is set.
Performing Matchcode Setup - Functional Locations (CS-BD/PM-EQM-FL)

   You reach the initial screen of the dictionary.

2. Enter the name of the matchcode object in the field Object name (IFLM for functional locations).

3. In the Dictionary objects section, select the field Matchcode objects.

4. Then choose one of the following options:

   Dictionary object → Change
   Dictionary object → Display

See also:
Customizing: Matchcode Setup
Displaying Archived Functional Locations (CS-BD/PM-EQM-FL)

Use
You can display archived functional locations using the Archiving Information System.

Features
The archiving information structure SAP_PM_FUNCLOC has been created for display purposes in the Standard System. The information structure is based on the field catalog SAP_PM_FUNCLOC and displays the following fields in the archived equipment:

- Functional location

You can also create your own information structures and define which fields the system should display. The following fields are available in the field catalog SAP_PM_FUNCLOC for this purpose:

- Inventory number
- Acquisition date
- Year of construction
- Category labeling
- Location
- Cost center

If the fields in the catalog are insufficient, you can define your own field catalogs.

For more information on the Archiving Information System in general, as well as on creating new information structures and field catalogs, see Archiving Information System (SAP AS) [Ext.].
Initial Run Log for Functional Locations (CS-BD/PM-EQM-FL)

Definition
The system creates a log when you perform the initial run program for archiving functional locations as a background job. The log lists, according to functional location category and structure indicator, how many functional locations with deletion flags were also assigned a deletion indicator by the system.

Structure
It contains the following information in detail:

- Selection criteria and parameter settings used
- Each functional location processed
  - With the confirmation “System status DLT (Deletion indicator) set”
  - Exception messages
    For example, if you executed the program in “test mode”, the where-used lists for each functional location can be listed.
- Statistics for functional locations processed

See also:
Archive Management [Ext.]
Archiving Log for Functional Locations (CS-BD/PM-EQM-FL)

Definition
The system creates a log when you run the archiving program as a background job.

Structure
The log contains the following data:

- Selection criteria and parameter settings used
- Each processed functional location with exception messages if necessary
  
  For example, if you executed the program in “test mode”, the where-used lists for each functional location will be listed

- Statistics for archived objects
- Number of archive files generated
- All administrative data
- Associated tables
- Number of table entries processed

If you set the archiving object PM_IFLOT to Start automatically in Customizing, the deletion program will start automatically after archiving and delete all successfully archived files. This also generates a log [Page 38].

See also:
Archive Management [Ext.]
Deletion Program Log for Functional Locations (CS-BD/PM-EQM-FL)

Definition
If you set the option *Start automatically* for the archiving object `PM_IFLOT` in Customizing, the deletion program starts **automatically** after archiving and deletes all successfully archived data. This also generates a log.

Structure
The deletion program contains the following data:

- Selection criteria and parameter settings used
- Statistics for the objects processed for each archiving session

See also:
[Archive Management [Ext.]]
Archiving of Serial Number History (LO-MD-SN)

Definition
Archiving object [Ext.] with which you can archive the serial number history.

Use
If serial numbers are available in business operations for a material (for example, for deliveries, goods movements, and physical inventories), the system saves history-relevant document data together with the serial numbers. You can archive this serial number history using the archiving object **PM_OBJLIST**.

Structure
The archiving object **PM_OBJLIST** uses the archiving class **PM_OBJLIST** which archives and deletes data from the following tables:

### Tables Which Are Archived and Deleted

<table>
<thead>
<tr>
<th>Table</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>OBJK</td>
<td>Object list for Plant Maintenance</td>
</tr>
<tr>
<td>SER01</td>
<td>Document header for serial numbers for delivery</td>
</tr>
<tr>
<td>SER02</td>
<td>Document header for serial numbers for maintenance contract (SD order)</td>
</tr>
<tr>
<td>SER03</td>
<td>Document header for serial numbers for delivery</td>
</tr>
<tr>
<td>SER04</td>
<td>Document header for serial numbers for inspection lot</td>
</tr>
<tr>
<td>SER05</td>
<td>Document header for serial numbers for PP order</td>
</tr>
<tr>
<td>SER06</td>
<td>Document number for serial numbers for handling unit - contents</td>
</tr>
<tr>
<td>SER07</td>
<td>Document header for serial numbers in physical inventory</td>
</tr>
</tbody>
</table>

### Tables from Which Data is Only Deleted

<table>
<thead>
<tr>
<th>Table</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>SER00</td>
<td>General header table for serial number management</td>
</tr>
</tbody>
</table>
Application-Specific Features (LO-MD-SN)

Use
You can use the archiving object [Ext.] PM_OBJLIST to archive and delete serial number histories which do not need to be accessed directly in the system.

You archive the serial numbers themselves together with the equipment (see Archiving Object PM_EQUI [Page 8]). You archive the documents for business operations together with the respective archiving objects.

Prerequisites
In Customizing, configure the residence times of the serial number history for the documents (for example, for deliveries or physical inventories). In this way, you define how long the serial number history must be available in the system based on verification obligations of different duration. For more information, see Archiving Object-Specific Customizing (LO-MD-SN) [Page 43].

You have archived the documents belonging to the serial number. For more information about the objects which you must archive before the serial number history, see Dependencies (LO-MD-SN) [Page 44].

Features

Initial Run
There is no initial run program for archiving the serial number history. It is not necessary to set a deletion flag for the history.

Archiving
You select the data that you want to archive in the archiving program (for example, serial number histories for particular deliveries or physical inventories).

Before the system writes the database tables to the archive, it performs checks to determine whether a serial number history may already be archived. For more information, see Checks [Page 42].

If these conditions are not met, the system cannot archive the serial number history. Since a large number of histories are frequently archived for serial numbers, for performance reasons, you do not receive a message if a history could not be archived.

You can use the following archiving options:

- Test run
- Archiving productively
- Archiving and deleting

Deleting
You can use this option to delete serial number histories that were previously only archived.
Displaying

You can display the archived serial number histories using the Archiving Information System (see Displaying Archived Serial Numbers (LO-MD-SN) [Page 46]).
Checks (LO-MD-SN)

The system performs checks before archiving serial number histories:

- It checks whether the following documents, for which a serial number history exists, have already been archived:
  - Deliveries
  - Sales documents
  - Goods movements
  - Inspection lots
  - Production or refurbishment orders
  - Handling units
  - Physical inventory documents

- It checks whether the residence times for documents in the serial number history has already elapsed.

If these conditions are not met, the system cannot archive the serial number history. As a large number of histories are frequently archived in the area of serial numbers, for reasons of performance you will not receive a message that a history cannot be archived.

See also:
Dependencies (LO-MD-SN) [Page 44]
Application Customizing (LO-MD-SN)

Use
It may happen that materials with serial numbers, a verification obligation exists for all business operations of a material. In such cases, you must be able to present a comprehensive history for the material (for example, using deliveries, goods movements, or physical inventories).

Using the residence/retention period [Ext.], you can define how long documents to which the serial number history refers must be active in the system, in other words, how long the serial number history must exist.

Features
You can configure the residence times for different document types in Customizing for the archiving object PM_OBJLIST.

Activities

<table>
<thead>
<tr>
<th>Function</th>
<th>Menu Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configure residence time for document type</td>
<td>Plant Maintenance and Customer Service → Master Data in Plant Maintenance and Customer Service → Technical Objects → Serial Number Management → Archive Serial Number History</td>
</tr>
</tbody>
</table>
Dependencies (LO-MD-SN)

Note the dependencies between archiving objects before you archive the serial number history using the archiving object PM_OBJLIST. Generally, you cannot archive data until dependent objects have been archived.

The table describes the objects that you must archive before you archive the serial number history:

<table>
<thead>
<tr>
<th>Archiving Object</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>LE_HU</td>
<td>Handling units</td>
</tr>
<tr>
<td>MM_INVBEL</td>
<td>Physical inventory documents in Materials Management</td>
</tr>
<tr>
<td>MM_MATBEL</td>
<td>Material documents in Materials Management</td>
</tr>
<tr>
<td>PM_ORDER</td>
<td>Orders</td>
</tr>
<tr>
<td>PP_ORDER</td>
<td>Production orders</td>
</tr>
<tr>
<td>QM_CONTROL</td>
<td>Movement data of quality inspection</td>
</tr>
<tr>
<td>RV_LIKP</td>
<td>Deliveries</td>
</tr>
<tr>
<td>SD_VBAK</td>
<td>Sales documents</td>
</tr>
</tbody>
</table>

For more information about the network graphic which shows the dependencies between archiving objects, see Network Graphic [Ext.].
Calling up Serial Number History Archiving (LO-MD-SN)

5. Choose **Tools → Administration → Administration → Archiving.**
   
   You reach the initial screen for archive management.

6. Enter the name of the archiving object (**PM_OBJLIST** for serial number history) and choose **Continue.**
   
   The system displays the available activities belonging to the object.

7. You can now select and execute the required activities, for example, “Archive”, “Delete” and so on.
Displaying Archived Serial Number Histories (LO-MD-SN)

Use
You can display archived serial number histories using the Archiving Information System.

Features
The archiving information structure SAP_PM_OBJK has been created for display purposes in the Standard System. The information structure is based on the field catalog SAP_PM_OBJK and displays the following fields in the serial number history:

- Material number
- Serial number

You can also create your own information structures and define which fields the system should display. The following fields are available in the field catalog SAP_PM_OBJK for this purpose:

<table>
<thead>
<tr>
<th>Field</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATNR</td>
<td>Material number</td>
</tr>
<tr>
<td>SERNR</td>
<td>Serial number</td>
</tr>
<tr>
<td>EQUNR</td>
<td>Equipment number</td>
</tr>
<tr>
<td>LIEF_NR</td>
<td>Delivery number</td>
</tr>
<tr>
<td>SDAUFNR</td>
<td>Sales document number</td>
</tr>
<tr>
<td>MBLNR</td>
<td>Material document number</td>
</tr>
<tr>
<td>MJAHR</td>
<td>Material document year</td>
</tr>
<tr>
<td>PRUEFLOS</td>
<td>Inspection lot</td>
</tr>
<tr>
<td>PPAUFNR</td>
<td>Production/refurbishment order</td>
</tr>
<tr>
<td>EXIDV</td>
<td>Handling unit</td>
</tr>
<tr>
<td>IBLNR</td>
<td>Physical inventory document</td>
</tr>
<tr>
<td>GJAHR</td>
<td>Physical inventory document year</td>
</tr>
</tbody>
</table>

For more information about the Archiving Information System in general, and creating new information structures and field catalogs, see Archiving Information System (SAP AS) [Ext].
Archiving of Measurement Documents (CS-IB-MC/PM-EQM-SF-MPC)

Definition

Archiving object [Ext.] with which you can archive measurement documents in the Plant Maintenance and Customer Service application components.

Structure

The archiving object PM_IMRG for measurement documents comprises the following tables:

<table>
<thead>
<tr>
<th>Table</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDHDR</td>
<td>Change document header</td>
</tr>
<tr>
<td>CDPOS</td>
<td>Change document item</td>
</tr>
<tr>
<td>IMRG</td>
<td>Measurement document</td>
</tr>
<tr>
<td>THEAD</td>
<td>Long text</td>
</tr>
</tbody>
</table>
Application-Specific Features (CS-IB-MC/PM-EQM-SF-MPC)

Use

You can use the archiving object [Ext.] PM_IMRG to archive and delete measurement documents which do not need to be accessed directly in the system.

Features

You can only delete complete measurement document areas, this means, from the first measurement document entered until a key date. You cannot archive and delete individual measurement documents.

At least one measurement document is usually retained when archiving. This is the latest non-canceled measurement document. However, in the following cases, more than one measurement document is retained:

- If there are canceled measurement documents after the latest measurement document, then the latest measurement document and all subsequent canceled measurement documents are retained.
- If there are several measurement documents with the same entry date and the same (exact to the second) entry time, then all of the "latest" measurement documents are retained. This can occur, for example, when you enter test data.

You can also archive and delete all the measurement documents for a measuring point or counter, as required. For more information, see Variant Settings for the Initial Run (PM-EQM-SF-MPC) [Page 52].

Initial Run

The initial run program prepares the data in the database for archiving. In the initial run variant, you enter the selection criteria for the measurement documents which you want to archive and delete. The system sets a deletion flag (DFLAG) internally for all measurement documents selected.

You cannot reset deletion flags which have been set for measurement documents.

The initial run generates a log [Page 59].

Archiving

The archiving program writes the database tables of the measurement documents listed under the object definition [Page 47] to the archive.

You can:

- Perform archiving in a test run
- Only archive measurement documents
- Archive and delete measurement documents

The archiving program generates a log [Page 60].
Deleting

If you have selected *Archive and delete documents* in the archiving variant, the deletion program deletes all the measurement documents which the system has archived successfully.

If the deletion program is not called up automatically after the activity *Archive* has been completed successfully, you must wait until all the archiving is completed. You can process an entire archiving session with all the archive files generated or you can select individual archive files for processing.

To avoid problems caused by data inconsistency, you should run the deletion program as near as possible to the archiving program.

Displaying

- You can display the archived measurement documents using the Archiving Information System (see Displaying Archived Measurement Documents (CS-IB-MC/PM-EQM-SF-MPC) [Page 57]).

- You can display statistical data for the archive file. Choose *Evaluate* in the initial screen for archiving measurement documents.
Application Customizing (CS-IB-MC/PM-EQM-SF-MPC)

Use
You set parameters for Archiving in the application-specific Customizing.

Features
In the application-specific Customizing, you can define the maximum number of data objects per archive. For the archiving of measurement documents, the SAP System creates a new data object when one of the following conditions is fulfilled:

- A new measuring point or counter begins.
- 500 measurement documents have already been archived for a measuring point or counter.

The system archives measurement documents in sequence for each measuring point or counter. For more information about Customizing settings, see General Customizing of Archiving [Ext.].

Activities
To call up the application-specific Customizing, choose Goto → Customizing and then Technical settings in the initial archiving screen.
Dependencies (CS-BD/PM-EQM-SF-MPC)

Note the dependencies between archiving objects before you archive measurement documents using the archiving object **PM_IMRG**. Generally, you cannot archive data until dependent objects have been archived.

The table describes the objects that you must archive before you archive measurement documents:

<table>
<thead>
<tr>
<th>Archiving Object</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>PM_ORDER</td>
<td>Service and maintenance orders</td>
</tr>
<tr>
<td>PM_QMEL</td>
<td>Maintenance notifications</td>
</tr>
<tr>
<td>PP_ORDER</td>
<td>Production order</td>
</tr>
</tbody>
</table>

For more information about the network graphic which shows the dependencies between archiving objects, see [The Network Graphic [Ext.]](Ext.).
Variant Settings for the Initial Run (CS-IB-MC/PM-EQM-SF-MPC)

Use
For the archiving object PM.IMRG, you can enter selection criteria in the variant for the initial run. For the selected measurement document area, the system sets a deletion flag (DFLAG) in the initial run and thereby selects the measurement documents for archiving and deleting. You cannot archive and delete individual measurement documents.

⚠️
You cannot reset deletion flags.

Features
In the variant maintenance for the initial run, the selection criteria available include:

- Measuring point (all measurement documents for a measuring point or counter)
- Equipment (all measurement documents for a piece of equipment)
- Until measuring time (all measurement documents from the start until the stated measuring time [key date])

You can perform archiving in a test run, only archive measurement documents, or archive and delete measurement documents.

To ensure that at least one measurement document is retained for each measuring point or counter, the field Retain 1 measurement document per measuring point is selected in the standard system.

Do not select this field if you want to archive and delete collective measurement documents. This can be advisable in the following cases:

- You have only previously entered test data, which you want to delete, for a measuring point or counter, in order to restart the measuring point or counter.
- You want to delete all the measurement documents for a measuring point or counter, in order to then delete the measuring point or counter.
Variant Settings for Archiving (CS-IB-MC/PM-EQM-SF-MPC)

Use

For the archiving object PM_IMRG, you can enter selection criteria in the variant for the archiving program. For the selected measurement document area, the archiving program writes the database tables for the measurement documents listed under object definition [Page 47] to the archive. From the selected measurement document area, the system only archives measurement documents which have retained a deletion flag in the initial run.

Features

As in the initial run variant, the selection criteria available in the variant maintenance for archiving include:

- **Measuring point** (all measurement documents for a measuring point or counter)
- **Equipment** (all measurement documents for a piece of equipment)
- **Until measuring time** (all measurement documents from the start until the stated measuring time [key date])

You can perform archiving in a test run, only archive measurement documents, or archive and delete measurement documents.

The archiving program generates a log [Page 60].
Authorizations (CS-IB-MC/PM-EQM-SF-MPC)

To archive measurement documents, you only require general archiving authorization.

See also:

Authorization Check [Ext.]
Calling up Measurement Document Archiving (CS-IB-MC/PM-EQM-SF-MPC)

1. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for archive management.

2. Enter the name of the archiving object (PM_IMRG for measurement documents) and choose Continue.
   The system displays the available activities belonging to the object.

3. You can now select and execute the required activities, for example, "Initial run", "Archive".
Displaying Deletion Flags (CS-IB-MC/PM-EQM-SF-MPC)

Prerequisites
You have performed the initial run productively.

Procedure
1. Display the measurement documents using the list variant. To do this, choose Logistics → Plant Maintenance → Technical Objects and then Equipment → Measurement Documents → List Editing → Display.
   
   You reach the Measurement Document Selection screen.

2. Enter the required data.

3. In the measurement document list, you can expand the current display variant with the field Deletion flag. To do this, choose Settings → Display variant → Current.

For more information about working with lists and list variants, see Working with Lists [Ext.].
### Displaying Archived Measurement Documents (CS-IB-MC/PM-EQM-SF-MPC)

<table>
<thead>
<tr>
<th>Function</th>
<th>Menu Path</th>
<th>What You Should Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>Displaying archived measurement documents from the application</td>
<td><strong>Logistics</strong> → <strong>Plant Maintenance</strong> → <strong>Technical Objects</strong> → <strong>&lt;Equipment/Functional Location&gt;</strong> → <strong>Measurement Documents</strong> → <strong>List Editing</strong> → <strong>Display Archive</strong></td>
<td>You use this function if you are simply editing measurement documents.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The system displays the measurement documents in list form, as if they were still available in the SAP System.</td>
</tr>
<tr>
<td>Displaying archived measurement documents from archive management</td>
<td>In the initial archiving screen, choose <strong>Evaluate</strong>. Then choose the report <strong>RIARCRM1</strong>.</td>
<td>You use this function if you are simply working in archiving management.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>You can choose between batch or dialog processing.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The report displays all the data for the measurement documents in list form, as if they were still available in the SAP System.</td>
</tr>
</tbody>
</table>
Displaying Archived Measurement Documents (CS-IB-MC/PM-EQM-SF-MPC)

| Displaying archived measurement documents using the model report | In the initial archiving screen, choose *Evaluate*. Then choose the report RIAACRMS. | You use this function if you only want to display the most important measurement document data in tabular form. You can choose between batch or dialog processing. The report displays the most important measurement document data:  
- Measuring point  
- Measurement documents  
- Document number  
- Date and time  
- Measurement reading entered with unit  
- Valuation codes (code catalog, code group, valuation catalog) You can use the model report as a template for customer-specific reports. Essentially, it contains the function modules for procuring and selecting measurement documents from the archive. |
Initial Run Log for Measurement Documents (CS-IB-MC/PM-EQM-SF-MPC)

**Definition**
The initial run for the archiving of measurement documents generates a log.

**Structure**
It contains the following data in detail:
- Start and end of the initial run
- Statistics
  - Number of measurement documents selected
  - Number of measuring points selected
  - Number of deletion flags set
Archiving Log for Measurement Documents (CS-IB-MC/PM-EQM-SF-MPC)

Definition
The system generates a log when archiving measurement documents.

Structure
It contains the following data in detail:

- Number of data objects
- Size of data objects
- Statistics
  - Number of archived change documents
  - Number of archived document items
  - Number of archived measurement documents
Archiving of Maintenance Notifications (PM-WOC-MN)

Definition

Archiving object [Ext.] with which you can archive maintenance notifications (PM notifications) in the Plant Maintenance application component.

Structure

The archiving object PM_QMEL for maintenance notifications consists of the following tables:

Tables that are archived:

<table>
<thead>
<tr>
<th>Table Name</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>QMEL</td>
<td>Notification header data</td>
</tr>
<tr>
<td>QMFE</td>
<td>Items</td>
</tr>
<tr>
<td>QMMA</td>
<td>Activities</td>
</tr>
<tr>
<td>QMSM</td>
<td>Tasks</td>
</tr>
<tr>
<td>QMUR</td>
<td>Causes</td>
</tr>
<tr>
<td>QMIH</td>
<td>Maintenance data</td>
</tr>
<tr>
<td>ILOA</td>
<td>Location data</td>
</tr>
<tr>
<td>IHPA</td>
<td>Partners</td>
</tr>
<tr>
<td>PMLP</td>
<td>Print log</td>
</tr>
<tr>
<td>MCIPMIS</td>
<td>PMIS update, ‘Before Image’ table, object data</td>
</tr>
<tr>
<td>CDHDR, CDPOS</td>
<td>Change documents</td>
</tr>
<tr>
<td>KSSK</td>
<td>Classification</td>
</tr>
<tr>
<td>JEST, JESTO</td>
<td>Status</td>
</tr>
<tr>
<td>SWW_CONTOB</td>
<td>Workflow, work item</td>
</tr>
<tr>
<td>THEAD</td>
<td>Long text</td>
</tr>
</tbody>
</table>

The workflow is only archived and not deleted. However, you can archive the workflow using the archiving object WORKITEM.

For more information, see BC - Archiving of Application Data: BC - Basis.
Application-Specific Features (PM-WOC-MN)

Use
You can archive maintenance notifications that you no longer need to access directly in the system using the archiving program. The data is written to the archive files and then deleted from the system if the operation was successful.

You can archive and delete maintenance notifications using the archiving object [Ext.] PM_QMEL.

Features

Initial Run
The initial run program prepares the data in the database for archiving. The deletion flags, with which you flagged the objects you want to archive are also assigned the system status MARC (Flagged for archiving) in the initial run program.

The initial run generates a log [Page 71].

Archiving
The archiving program writes the database tables of the maintenance notifications listed under the object definition [Page 61] to the archive.

⚠️ When Start automatically is set for the deletion program in the Archiving of Customizing [Ext.], and a productive mode is selected for the archiving program, the system starts the deletion program in connection with its productive mode. This means that all the data is automatically deleted once it has been successfully archived.

The archiving program generates a log [Page 72].

Deleting
The deletion program deletes all database records for the maintenance notifications which were successfully archived.

If the deletion program is not called up automatically after the activity Archive has been completed successfully, you must wait until all the archiving is completed. You can process an entire archiving session with all the archive files created or you can select individual archive files for processing.

To avoid problems caused by data inconsistency, you should run the deletion program as near as possible to the archiving program.

The deletion program generates a log [Page 73].

Displaying
You can display statistical data for the archive file. Choose Evaluate in the initial screen for archiving maintenance notifications.
Presets (PM-WOC-MN)

Presets (PM-WOC-MN)

The status DFLAG (Deletion flag) must be set in the maintenance notification before archiving can be performed.

You have the following options for setting the deletion flag:

- You can flag the maintenance notifications for deletion manually (see Deletion of Maintenance Notifications [Ext.]).
- You can flag completed maintenance notifications for deletion using the report RIARCMQM3:
  
  To do this, choose Logistics → Plant Maintenance → Maintenance Processing → Notification → Set Deletion Flag.
  
  - If you execute the report in test mode, you can determine which maintenance notifications have already been completed and for which notifications the completion date is n days in the past (check for <=). For example, where n=200, the system checks all completed maintenance notifications whose completion date is more than 200 days in the past.
  
  - If you execute the report in active mode, the system sets the status DFLAG (Deletion flag) for the maintenance notifications found.

See also:

Application Customizing (PM-WOC-MN) [Page 66]
Checks (PM-WOC-MN)

Use

Before archiving, the system checks whether the maintenance notification is still being used in a maintenance order. For this purpose, **usage checks** are performed for the individual maintenance notifications.

As soon as a maintenance notification is used in a maintenance order, the system status **ARNB (Notif. blocked by archiving)** can be set. However, the system only archives the maintenance notification if the maintenance order and the historical order have already been deleted.

You can display a verification list of the maintenance notifications that are still being used in the system and that are flagged for deletion using the initial run. To do this, execute the initial run in **Test mode**.
Application Customizing (PM-WOC-MN)

Use

In the Customizing of Archiving, you can adjust the settings for archiving sessions specifically for individual archiving objects.

Plant Maintenance archiving cannot be performed for all clients.

You can run the archiving program either in test mode or in productive mode. In test mode, no data is archived or deleted.

⚠️

In the Customizing of Archiving, the standard SAP setting for the deletion program is Start automatically. This means that all the data is automatically deleted once it has been successfully archived.

See also:

Customizing: Overview [Ext.]
Dependencies (PM-WOC-MN)

When archiving, you must consider dependencies between archiving objects, for example, between maintenance notifications and maintenance orders. Generally, you cannot archive data until dependent objects have been archived.

As soon as a maintenance notification is used in a maintenance order, the system status MARC (Flagged for archiving) can be set. However, the system only archives the maintenance notification if the maintenance order and the historical order have already been deleted.

For more information about the network graphic which shows the dependencies between archiving objects, see The Network Graphic [Ext].
Residence Time (PM-WOC-MN)

Some data must reside in the system for a specified length of time even if it is no longer being used (for example, for legal reasons). This is called the residence time. The data cannot be archived until it has been in the system for at least this length of time.

You can control this residence time for completed maintenance notifications using a report. You can define how long a completed maintenance notification remains in the system before being flagged for deletion using the report RIARCM3 [Page 64].

If the system establishes that a maintenance notification meets the requirements for archiving, it can archive the data immediately.

See also:
Residence/Retention Period [Ext.]
Authorizations (PM-WOC-MN)

The system uses the authorization object I_VORG_MEL to check whether the following authorizations are available for:

- Setting the status DLFL (Deletion flag)
- Setting the status ARNB (Notif. blocked by archiving)

If these authorizations are not available, the system terminates processing.

See also:
Authorization Check [Ext.]
Calling Up Archiving for Maintenance Notifications (PM-WOC-MN)

4. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for archive management.

5. Enter the name of the archiving object (PM_QMEL for maintenance notifications) and choose Continue.
   The system displays the available activities belonging to the object.

6. You can now select and execute the required activities, for example, "Initial run", "Archive".
Initial Run Log for Maintenance Notifications (PM-WOC-MN)

**Definition**

The system creates a log when you perform the initial run program for archiving maintenance notifications as a background job.

**Structure**

It contains the following information in detail:

- Each maintenance notification processed
  - With the confirmation “System status MARC (Flagged for archiving) set”
  - Exception messages
    For example, if you executed the program using the parameter *test mode*, the where-used lists for each maintenance notification can be listed.

- Statistics regarding maintenance notifications processed

See also:

[Archive Management [Ext.]]
Archiving Log for Maintenance Notifications (PM-WOC-MN)

Definition
The system creates a log when you run the archiving program as a background job.

Structure
The log contains the following data:

- Each archived maintenance notification with exception messages if necessary
  For example, if you executed the program using the parameter test mode, the where-used lists for each maintenance notification will be listed.

- Statistics for archived maintenance notifications

- Number of archive files generated

- All administrative data

- Associated tables

- Number of table entries processed

If you set the option Start automatically for the deletion program in Customizing, the deletion program will be executed automatically after archiving. This also generates a log [Page 73].

See also:
Archive Management [Ext.]
Deletion Log for Maintenance Notifications (PM-WOC-MN)

Definition
If you set the option Start automatically for the deletion program in Customizing, the deletion program will be executed automatically after archiving. This also generates a log.

Structure
The log contains statistics for the maintenance notifications processed for each archiving session.

See also:
Archive Management [Ext.]
Archiving of Service Notifications (PM-SMA-SC)

Definition

Archiving object [Ext.] with which you can archive service notifications in the application component Customer Service.

Structure

The archiving object SM_QMEL for service notifications includes the following tables:

<table>
<thead>
<tr>
<th>Table Name</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>QMEL</td>
<td>Notification header data</td>
</tr>
<tr>
<td>QMFE</td>
<td>Items</td>
</tr>
<tr>
<td>QMMA</td>
<td>Activities</td>
</tr>
<tr>
<td>QMSM</td>
<td>Tasks</td>
</tr>
<tr>
<td>QMUR</td>
<td>Causes</td>
</tr>
<tr>
<td>QMIH</td>
<td>Maintenance data</td>
</tr>
<tr>
<td>ILOA</td>
<td>Location data</td>
</tr>
<tr>
<td>IHPA</td>
<td>Partner</td>
</tr>
<tr>
<td>PMLP</td>
<td>Print log</td>
</tr>
<tr>
<td>MCIPMIS</td>
<td>PMIS update, ‘Before Image’ table, object data</td>
</tr>
<tr>
<td>CDHDR, CDPOS</td>
<td>Change documents</td>
</tr>
<tr>
<td>KSSK</td>
<td>Classification</td>
</tr>
<tr>
<td>JEST, JESTO</td>
<td>Status</td>
</tr>
<tr>
<td>SWW_CONTOB</td>
<td>Workflow, work item</td>
</tr>
<tr>
<td>THEAD</td>
<td>Long text</td>
</tr>
</tbody>
</table>

Workflow can only be archived, and not deleted. You can archive workflow using the archiving object WORKITEM.

For more information, see BC - Archiving of Application Data: BC - Basis.
Application-Specific Features (PM-SMA-SC/PM-WOC-MO)

Use

You can archive service notifications which you no longer need to access directly in the system using the archiving program. The data is written to the archive files and then deleted from the system if the operation was successful.

You can archive and delete service notifications using the archiving object [Ext.] SM_QMEL.

Features

Initial Run

The initial run program prepares the data in the database for archiving. The deletion flags, with which you flagged the objects you want to archive are also assigned the system status MARC (Flagged for archiving).

The initial run generates a log [Page 84].

Archiving

The archiving program writes the database tables of the service notifications listed under the object definition [Page 74] to the archive.

⚠️

In the Customizing of Archiving, the standard SAP setting for the deletion program is Start automatically. This means that all the data is automatically deleted once it has been successfully archived.

The archiving program generates a log [Page 85].

Deleting

The deletion program deletes all database records for the service notifications which were successfully archived.

If the deletion program is not called up automatically after the activity Archive has been completed successfully (see Customizing of Archiving), you must wait until all the archiving is completed. You can process an entire archiving session with all the archive files created or you can select individual archive files for processing.

To avoid problems caused by data inconsistency, you should run the deletion program as near as possible to the archiving program.

The deletion program generates a log [Page 86].

Displaying

You can display statistical data for the archive file. Choose Evaluate in the initial screen for archiving service notifications.
Presets (PM-SMA-SC)

The status Deletion flag must be set in the service notification before archiving can be performed.

You have the following options for setting the deletion flag:

- You can flag the service notifications for deletion manually (see Deletion of Maintenance Notifications [Ext.]).
- You can flag completed service notifications for deletion using the report RIARCSM3:
  
  To do this, choose Logistics → Customer Service → Service Processing → Notification → Set Deletion Flag.
  
  - If you execute the report in test mode, you can determine which service notifications have already been completed, and for which notifications the completion date is n days in the past (check for <=). For example, where n=200, the system checks all completed service notifications whose completion date is more than 200 days in the past.
  
  - If you execute the report in active mode, the system sets the status DFLAG (Deletion flag) for the service notifications found.

See also:

Application Customizing (PM-SMA-SC) [Page 79]
Checks (PM-SMA-SC)

Use

Before archiving, the system checks whether the service notification is still being used in a service order. For this purpose, usage checks are performed for the individual service notifications.

⚠️

As soon as a service notification is used in a service order, the system status DLT (Deleted) can be set. However, the system only archives the service notification if the maintenance order, the historical order, and the sales order have already been deleted.

👉

You can display a verification list of the service notifications that are still in use in the system and that are flagged for deletion using the initial run [Page 84]. To do this, execute the initial run in Test mode.
Application Customizing (PM-SMA-SC)

Use
In the Customizing of Archiving, you can adjust settings for archiving sessions specifically for individual archiving objects.

You cannot perform cross-client archiving in Customer Service.

You can run the archiving program either in test mode or in productive mode. In test mode, no data is archived or deleted.

⚠️
In the Customizing of Archiving, the standard SAP setting for the deletion program is Start automatically. This means that all the data is automatically deleted once it has been successfully archived.

See also:
Customizing: Overview [Ext.]
Dependencies (PM-SMA-SC)

When archiving service notifications, you must consider dependencies between archiving objects, for example, between service notifications and service orders. Generally, you cannot archive data until dependent objects have been archived.

⚠️

As soon as a service notification is used in a service order, the status **DLT (Deletion indicator, to be archived)** can be set. However, the system only archives the service notification if the maintenance order, the historical order, and the sales order have already been deleted.

For more information about the network graphic which shows the dependencies between archiving objects, see [The Network Graphic [Ext.]](#).
Residence Time (PM-SMA-SC)

Some data must reside in the system for a specified length of time even if it is no longer being used (for example, for legal reasons). This is called the residence time. The data cannot be archived until it has been in the system for at least this length of time.

You can control this residence time for completed service notifications using a report. You can define how long a completed service notification remains in the system before being flagged for deletion using the report RIARCSM3 [Page 77].

If the system determines that a service notification meets the requirements for archiving, it can archive the data immediately.

See also:
Residence/Retention Period [Ext.]
Authorizations (PM-SMA-SC)

The system uses the authorization object I_VORG_MEL to check whether the following authorizations are available for:

- Setting the status DLFL (Deletion flag)
- Setting the status ARNB (Notif. blocked by archiving)

If these authorizations are not available, the systems terminates processing.

See also:
Authorization Check [Ext.]
Calling Up Archiving for Service Notifications (PM-SMA-SC)

1. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for archive management.

2. Enter the name of the archiving object (SM_QMEL for service notifications) and choose Continue.
   The system displays the available activities belonging to the object.

3. You can now select and execute the required activities, for example, “Initial run”, “Archive”.
Initial Run Log for Service Notifications (PM-SMA-SC)

Definition
The system creates a list in log form when you perform the initial run program for archiving service notifications as a background job.

Structure
It contains the following information in detail:

- Each service notification processed
  - With the confirmation “System status MARC (Flagged for archiving) set”
  - Exception messages
    For example, if you executed the program using the parameter test mode, the where-used lists for each service notification can be listed.
- Statistics regarding service notifications processed

See also:
Archive Management [Ext.]
Archiving Log for Service Notifications (PM-SMA-SC)

Definition
When you run the archiving program as a background job, the system creates a log in list form.

Structure
The log contains the following data:

- Each processed service notification with exception messages if necessary
  For example, if you executed the program using the parameter **test mode**, the where-used lists for each service notification will be listed.
- Statistics for archived objects
- Number of archive files generated
- All administrative data
- Associated tables
- Number of table entries processed

If you use the standard SAP settings for the archiving object SM_QMEL in Customizing, the deletion program is executed **automatically** in a further step. This also generates a log [Page 86].

See also:
Archive Management [Ext.]
Deletion Log for Service Notifications (PM-SMA-SC)

Definition
If you use the standard SAP settings for the archiving object SM_QMEL in Customizing, the deletion program is executed automatically in a further step. This also generates a log.

Structure
The log contains statistics for the objects processed for each archiving session.

See also:
Archive Management [Ext.]
Archiving of Maintenance and Service Orders (PM-SMA-SC/PM-WOC-MO)

Definition

Archiving object [Ext.] with which you can archive maintenance orders and service orders in the Plant Maintenance application component.

Structure

The archiving object PR_ORDER contains all the order data:

<table>
<thead>
<tr>
<th>Table</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFIH</td>
<td>Order header</td>
</tr>
<tr>
<td>AFAB</td>
<td>Network - Relationships</td>
</tr>
<tr>
<td>IHPA</td>
<td>Partners</td>
</tr>
<tr>
<td>IHSG, IHGNS</td>
<td>Permits</td>
</tr>
<tr>
<td>ILOA</td>
<td>Location and account assignment for the maintenance object</td>
</tr>
<tr>
<td>OPROL</td>
<td>Operation link to object list entry</td>
</tr>
<tr>
<td>MSM_COMM_LOG_1</td>
<td>Communications log for MSM for paging</td>
</tr>
<tr>
<td>MSM_COMM_LOG_2</td>
<td>Communications log for MSM for paging status</td>
</tr>
<tr>
<td>PMCO</td>
<td>Cost structure and overview of the order</td>
</tr>
<tr>
<td>MCIPMIS</td>
<td>Order data for PMIS</td>
</tr>
<tr>
<td>PMCOQT</td>
<td>Quantity structure for the maintenance order</td>
</tr>
<tr>
<td>PMPL</td>
<td>Print data for the order</td>
</tr>
<tr>
<td>PMSDO</td>
<td>PM organizational data for SD documents</td>
</tr>
<tr>
<td>SER00 (see note)</td>
<td>General header table for serial number management</td>
</tr>
<tr>
<td>SER05 (see note)</td>
<td>Document header for serial numbers for the refurbishment order</td>
</tr>
<tr>
<td>OBJK (see note)</td>
<td>Object list</td>
</tr>
<tr>
<td>AFPO (see note)</td>
<td>Order item</td>
</tr>
</tbody>
</table>

If the order in question is a refurbishment order, the system archives the tables SER00, SER05, and OBJK: However, these tables are not deleted. You can archive these tables together with the serial number history (Archiving Object PM_OBJLIST [Page 39]).

Table AFPO is only available for refurbishment orders and is therefore only archived for these orders.
By including the archiving classes (*P_Order* and *Text*), the following data is also archived:

- Order header overall (table AUFK, AFKO)
- Cost report
- Settlement rule
- Operations
- Material components
- Production resources/tools
- Completion confirmations
- Status of order header and operation
- Long text for order header and operation
- Purchase requisition for operation and components
- Completion confirmation for operation and components
- Goods movement

Since Release 3.0F, it has been possible during an archiving session to generate a historical order simultaneously from a maintenance order.

If you set the indicator *Historical orders* on the initial screen for the archiving run, the deletion program deletes the order from the SAP online database and at the same time, creates a historical order in aggregated form from the database. The order number remains the same.

**See also:**

Archiving Object: Overview [Ext.]
Application-Specific Features (PM-SMA-SC/PM-WOC-MO)

Use

You can archive data from maintenance orders and service orders that are no longer needed using the archiving program. The data is written to the archive files and then deleted from the system if the operation was successful.

You can archive maintenance orders and service orders using the archiving object [Page 87] PM_ORDER.

Features

Initial Run

The initial run program prepares the data in the database for archiving. Maintenance and service orders with deletion flags are assigned the system status Deletion indicator in the initial run program. However, processing can only take place if one of the deletion criteria described under Checks (PM-WOC-MO, PM-SMA-SC) [Page 97] is fulfilled.

Archiving and Deleting

The archiving program writes the database tables of the maintenance and service orders listed under the object definition [Page 87] to the archive.

Normally, the system creates archive files and then deletes them automatically as the SAP standard setting Start automatically is set. The deletion program deletes all database records for the orders which have been successfully archived. However, you can perform these steps individually.

To avoid problems caused by data inconsistency, you should run the deletion program as near as possible to the archiving program.

For more information, see Deleting Archived Data from the Database [Ext.]

Historical Orders

Since Release 3.0F, you can trigger the simultaneous creation of a historical order from an order in the archiving run.

If you set the indicator Generate historical orders on the initial screen for the archiving run, the deletion program deletes the maintenance or service order from the SAP online database and at the same time creates a historical order in aggregated form from the database. The order number remains the same.

Refurbishment orders are the exceptions to this rule. Even if you have set the indicator, the system does not generate a historical order for the refurbishment order.

For more information in deleting historical orders, see Deleting Historical Orders [Page 102].

Selection Criteria

You can select orders for archiving according to the following criteria:
Orders are only archived if they satisfy the following criteria:

- Deletion indicator is set
- Residence time 2 has elapsed

**Displaying**

- You can display archived orders using the Archiving Information System (see Displaying Archived Orders (PM-SMA-SC/PM-WOC-MO) [Page 101]).
- You can display statistical data for the archive file. Choose Evaluate in the initial screen for archiving maintenance and service orders.
Dependencies (PM-SMA-SC/PM-WOC-MO)

Note the dependencies between archiving objects before you archive orders using the archiving object **PM_ORDER**. Generally, you cannot archive data until dependent objects have been archived.

For more information about the network graphic which shows the dependencies between archiving objects, see The Network Graphic [Ext.].
Technical Data (PM-SMA-SC/PM-WOC-MO)

Since the size of maintenance orders or service orders can vary greatly between different companies, it is difficult to give a general estimate for the program runtime. SAP therefore recommends that you archive a limited number of orders in a test run. This will enable you to make your own estimates, based on the runtime and the number of orders.
Application Customizing (PM-SMA-SC/PM-WOC-MO)

Before you can archive maintenance orders (PM orders) or service orders, the system performs different checks [Page 97].

One of the checks concerns the residence times. Residence times are part of the order type. You can configure residence times in Customizing under Plant Maintenance and Customer Service → Maintenance and Service Processing → Maintenance and Service Orders → Functions and Settings for Order Types → Configure Order Types.
Setting Deletion Flags/Indicators in the Background - Orders (PM-SMA-SC/PM-WOC-MO)

Use

You can set deletion flags and indicators not only online [Page 96], but also for areas that meet the same selection criteria.

For each selection area, you have the following options:

- Set deletion flag only
- Set deletion indicator only
- Set deletion flag and deletion indicator simultaneously

However, the system can only set the status when the deletion criteria described in Checks [Page 97] are met.

For performance reasons, we recommend that you use the initial run either to set the deletion flag or to set the deletion indicator.

Procedure

1. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for archive management.

2. Enter the name of the object (PM_ORDER for orders) and choose Continue.
   The system displays the available activities belonging to the object.

3. Choose Initial run.
   You reach the initial archive management screen where you can schedule a background job for the program.

4. Use a report variant. If no variants are available, choose Maintain to maintain the required variant.

   You can only use a variant in one job. As long as a job with this variant exists, this variant cannot be used in another job - even if it has already run successfully.

   If you want to create a new variant, enter a name for the variant and choose Maintain.
   You reach the variant maintenance screen for archiving orders. The variant contains the selection criteria used to select the orders.

5. Maintain the selection criteria and choose Continue. Enter attributes for the variant.
   You can also maintain the following attributes in the section Activities:

   - Setting a deletion flag
     Select Set deletion flag.

   - Setting a deletion indicator
Setting Deletion Flags/Indicators in the Background - Orders (PM-SMA-SC/PM-WOC-MO)

Select Set deletion indicator.

- Set deletion flag and deletion indicator simultaneously
  
  Select Set deletion flag and Set deletion indicator. Save your variant.

6. Define the start date.

7. Define the spool parameters.

8. Choose Edit → Generate job.

The deletion flags and indicators are set in the background.

See also:

Maintenance of the Start Date and Spool Parameters [Ext.]
Setting Deletion Flags Online - Orders (PM-SMA-SC/PM-WOC-MO)

Setting Deletion Flags in the Maintenance Order
2. Enter the corresponding order number and choose Continue.
   You reach the order header.
3. Choose Order → Functions → Deletion flag → Set.
   The system sets the status DFLAG.
4. Save the maintenance order.

Setting Deletion Flags in the Service Order
2. Enter the corresponding order number and choose Continue.
   You reach the order header.
3. Choose Order → Functions → Deletion flag → Set.
   The system sets the status DFLAG.
4. Save the service order.
Checks (PM-SMA-SC/PM-WOC-MO)

Use
A maintenance order (PM order) or service order can only be archived after a deletion flag and deletion indicator have been set for it:
You can set the deletion flag in two ways:

- Setting Deletion Flags Online - Orders (PM-WOC-MO, PM-SMA-SC) [Page 96]
- Setting Deletion Flags/Indicators in the Background - Orders (PM-WOC-MO, PM-SMA-SC) [Page 94]

Residence Times
An order can only be archived after the residence times have elapsed. There are two different residence times:

- **Residence time 1** is the time between the activation of the deletion flag and the activation of the deletion indicator.
  
  If the duration of residence time 1 is zero, the deletion flag and the deletion indicator can be set at the same time.

- **Residence time 2** is the time between the activation of the deletion indicator and the time at which the order can be archived and deleted from the database.
  
  After the second residence time has elapsed, the orders are archived and simultaneously deleted from the database.

For more information about the setting of residence times, see Application Customizing (PM-WOC-MO, PM-SMA-SC) [Page 93].

Check Criteria for Setting the Deletion Flag
Before a deletion flag is set in the initial run, the following requirements must be met:

- Any manually added purchase requisitions or purchase orders for the order must be deleted first.
  
  The balance of the actual costs for the order must be zero. This means that the deletion flag can only be activated if the order has already been settled, or if no actual costs were incurred for the order.

- Commitments relating to the order must be deleted.

- Unprocessed and incorrect goods movements must be processed.

  When the deletion flag is activated, all remaining capacity requirements are deleted. A deletion indicator is also set in any open material reservations.

  An order that has been flagged for deletion cannot be changed. However, you can cancel the deletion flag.
Check Criteria for Archiving

If an order is included in an order hierarchy or order network, a deletion indicator must be set for all orders in the hierarchy or network. Only then can the system archive the order.
Authorizations (PM-SMA-SC/PM-WOC-MO)

Definition
Authorization object for archiving and deleting maintenance orders and service orders.

Structure
You require the following authorization for archiving maintenance orders:

<table>
<thead>
<tr>
<th>Authorization Object</th>
<th>Activity</th>
<th>Order Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_AFKO_ATY</td>
<td>06</td>
<td>30</td>
</tr>
</tbody>
</table>

See also:
Authorization Check [Ext.]
Calling up Order Archiving (PM-SMA-SC/PM-WOC-MO)

8. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for archive management.

9. Enter the name of the object (PM_ORDER for service and maintenance orders) and choose Continue.
   The system displays the available activities belonging to the object.

10. You can now select and execute the required activities, for example, “Initial run”, “Archive”.
Displaying Archived Orders (PM-SMA-SC/PM-WOC-MO)

Use
If the summarized form of the historical order does not provide enough information for you, you can display the detail data of the original order. You can display orders either from the historical order or using the Archiving Information System.

Features

Displaying from the Historical Order
In the historical order, choose Environment → Display archive data.

Displaying with the Archiving Information System
The archiving information structure SAP_PM_ORDER has been created for display purposes in the Standard System. The information structure is based on the field catalog SAP_PM_ORDER and displays the following fields in the archived orders:

- Order
- Equipment
- Maintenance planning plant
- Planner group
- Reference date

You can also create your own information structures and define which fields the system should display. The following options are available in the field catalog SAP_PM_ORDER for this purpose:

- Priority
- Notification
- Device data
- Location
- Business area
- Cost center
- Asset

If the fields in the catalog are insufficient, you can define your own field catalogs.

For more information on the Archiving Information System in general, as well as on creating new information structures and field catalogs, see Archiving Information System (SAP AS) [Ext].
Deleting Historical Orders

Use

You can use list editing for orders to delete historical orders from the system online. It is not significant whether the historical orders have been created manually or generated from archiving. For more information about archiving orders, see Archiving of Service and Maintenance Orders (PM-SMA-SC/PM-WOC-MO) [Page 87].

Procedure

1. Depending on the application component in which you are working, choose one of the following menu paths:
   - Logistics → Plant Maintenance → Maintenance Processing → Order → Order List → Change
   - Logistics → Customer Service → Service Processing → Order → Service Order List → Change
   The selection screen for list editing appears.

2. Select Historical and choose Program → Execute.
   The order list appears.

3. Select the historical orders to be deleted and choose Order → Completion → Delete historical order.
   The system deletes the historical orders from the system.

   If you have inadvertently selected non-historical orders, the system nevertheless still only deletes the historical orders from the system.
Archiving of Task Lists (CS-AG/PM-PRM-TL)

Object

Archiving object [Ext.] with which you can archive maintenance task lists in the Plant Maintenance application component.

Use

You archive and delete maintenance task lists with the archiving object **PM_PLAN**. The archiving object comprises individual task lists which are identified uniquely by task list group and group counter, but not entire task list groups, so that you can archive and delete individual task lists at any time. As before, you can archive and delete entire task list groups.

You cannot import task list data.

Displaying archived task lists will only be possible from a later release.

Structure

The archiving object **PM_PLAN** contains the following data:

- Task list header
- Operations and sub-operations
- Material components
- Production resources/tools
- Classification data
- Service packages
- Inspection characteristics and their values
- Texts

The archiving of object dependencies is only planned for a later release.

Relevant Tables

The following tables are relevant for Archiving:

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLKO</td>
<td>Task list header</td>
</tr>
<tr>
<td>PLKZ</td>
<td>Time-independent header data (for example, administrative data)</td>
</tr>
<tr>
<td>MAPL</td>
<td>Material-task list assignments</td>
</tr>
<tr>
<td>KALC</td>
<td>Formulas for material quantity calculation</td>
</tr>
</tbody>
</table>
Archiving of Task Lists (CS-AG/PM-PRM-TL)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KALT</td>
<td>Texts for the formulas</td>
</tr>
<tr>
<td>EAFL</td>
<td>Equipment assignments</td>
</tr>
<tr>
<td>TAFL</td>
<td>Assignments of functional locations</td>
</tr>
<tr>
<td>PLFL</td>
<td>Task list sequences</td>
</tr>
<tr>
<td>PLPO</td>
<td>Operations</td>
</tr>
<tr>
<td>PLAS</td>
<td>Assignments of operations to sequences</td>
</tr>
<tr>
<td>PLMZ</td>
<td>Material component assignments</td>
</tr>
<tr>
<td>PLWP</td>
<td>Maintenance package assignments</td>
</tr>
<tr>
<td>PLFH</td>
<td>Production resources/tool assignments</td>
</tr>
<tr>
<td>PLMK</td>
<td>Inspection plan characteristics</td>
</tr>
<tr>
<td>PLMW</td>
<td>Inspection plan characteristic values</td>
</tr>
<tr>
<td>PLAB</td>
<td>Task list relationships</td>
</tr>
<tr>
<td>PLTX</td>
<td>PMS texts</td>
</tr>
<tr>
<td>PLPH</td>
<td>Phases and partial operations for CAP</td>
</tr>
<tr>
<td>PLFT</td>
<td>Process instructions</td>
</tr>
<tr>
<td>PLFV</td>
<td>Process instruction characteristics and partial operation parameters</td>
</tr>
<tr>
<td>MLST</td>
<td>Milestones</td>
</tr>
<tr>
<td>EINA</td>
<td>Purchasing info record (general data)</td>
</tr>
<tr>
<td>EINE</td>
<td>Purchasing info record (data for purchasing organization)</td>
</tr>
<tr>
<td>ESLL</td>
<td>Lines for service package</td>
</tr>
<tr>
<td>ESLH</td>
<td>Service package header data</td>
</tr>
</tbody>
</table>
Application-Specific Features (CS-AG/PM-PRM-TL)

Use
You can archive maintenance task lists (PM task lists) that you no longer need to access directly in the system using the archiving program. The data is written to the archive files and then deleted from the system if the operation was successful.

You can archive and delete maintenance task lists using the archiving object [Ext.] PM_PLAN.

Features

Change Statuses from Previous SAP Releases

Task lists from previous SAP releases may only have one deletion flag for individual change statuses.

You can use the report RCPREDEL [Page 111] to release existing deletion flags to all change statuses of the maintenance task list. You use this report once after the data transfer from a previous release in order to create the same prerequisites for both old and new maintenance task list data.

Customizing

You use the SAP enhancement (user exit) CPRE0001 in Customizing to define criteria which the system should check before a maintenance task list can be archived. Note that the standard system already performs several usage checks [Page 103].

For more information about Customizing, see Customizing of Archiving [Ext.].

Selection Criteria

You can select maintenance task lists for archiving according to the following criteria:

- Task list type, task list group and group counter
- Plant
- Status
- Task list usage
- Planner group
- Maintenance strategy
- Assembly
- Time of last planned call
  - All task lists whose usage is before the key date are selected.
- Date when last used
  - Date on which the task list was last used in an order for Plant Maintenance or Customer Service.
- Deletion flag
If you enter the deletion flag as a criterion for the archiving session using the deletion program, you can only choose *Delete over whole time period*.

You can also delete maintenance task lists which do not have a deletion flag. Deletion flags are not a prerequisite.

If you archive task lists from previous releases (selection criterion *Deletion flags*), without previously having used the report RCPREDEL [Page 111], only those task lists which have a deletion flag on all change statuses are archived. Task lists which have deletion flags on individual change statuses are not selected if you enter deletion flags as a criterion.

**Activities**

If the selection criteria in the standard program are not sufficient, or if you want different criteria, you can define your own **customer-specific selection criteria**.

1. Define your own archiving object. Use the archiving object PM_PLAN as a template.
2. Write your own selection report. Use the report RPMREWR1 as a template. Only change:
   - RCPPMSEL for *Selection parameters*
   - RCPPMF01 for *Selections*
Technical Data (CS-AG/PM-PRM-TL)

Memory Requirement
A maintenance task list with twelve operations, four material components and two production resources/tools requires approximately 40 kilobytes of memory for archiving.
You can check the maximum length of the individual data records in the Data Dictionary Information System.

Program Runtime
There is currently no information about the runtime for archiving maintenance task lists.

See also:
Memory Increase [Ext.]
Checks (CS-AG/PM-PRM-TL)

Use
If you change maintenance task lists (PM task lists) or task list objects using a change number, the task list consists of several change statuses. If you never change with a change number, the task list and all its task list objects have only one change status.

You can delete your data in the following ways:

- Over the entire time period
- On the key date

Deleting Over the Entire Period
If you delete over the entire period of time, all task lists which meet your selection criteria are deleted (for example, for equipment and status).

You can also enter existing deletion flags as a selection criterion. If you do not enter deletion flags explicitly as a criterion, task lists are deleted regardless of whether or not they have a deletion flag.

Deleting on the Key Date
Deleting on the key date is advisable above all if you have accumulated historical data statuses which you no longer need.

The subsequent checks only concern maintenance task lists which you have created with a change number.

If you delete on a key date, all change statuses [Page 109] ending before this key date are deleted. For the periods before the key date, it is not important whether inspection plans or inspection plan objects have deletion flags or if you have previously deleted them online.

In addition, the system checks change statuses that lie on or after the key date. In this case, the deciding factor is whether you have already deleted these change statuses online. The system deletes these change statuses from the database even though they lie on or after the key date. For this, there are no time gaps. This means that if a change status does not have an online deletion indicator, the following change statuses are not deleted from the database, even if you already have an online indicator.

See also:
Maintenance Task Lists with Several Change Statuses (PM-PRM-TL) [Page 110]
Change Statuses of Task Lists (CS-AG/PM-PRM-TL)

If you change maintenance task lists (PM task lists) or maintenance task list objects with a change number, the task list consists of several change statuses. If you never change with a change number, the task list and all its task list objects have only one individual change status.
Task Lists with Several Change Statuses (CS-AG/PM-PRM-TL)

If you change maintenance task lists or maintenance task list objects with a change number, the task list consists of several change statuses. If you never change with a change number, the task list and all its task list objects have only one change status.

Deleting a Task List Online

If you delete a change status online in a maintenance task list with several change statuses, a change status for further processing will only be blocked for this one, together with all lower-level objects. You can still access any other change statuses.

Deletion Flag with Several Change Statuses

If you set a deletion flag for a change status in a maintenance task list with several change statuses, the deletion flag is set simultaneously in the entire maintenance task list. If you enter deletion flags as a criterion for an archiving session, the entire task list with all the task list objects will be archived and deleted. Similarly, if you cancel a deletion flag, this always applies to the entire task list.

To delete a task list with several release statuses completely from the database, choose one of the following options:

- Set a deletion flag in the task list header. For the archiving session with the deletion program, choose Deletion flags as a selection criterion. For more information on setting a deletion flag in the task list, see PM - Maintenance Task Lists.

- Specify the task list completely in the selection criteria for the archiving session and delete Over the entire time period.
Maintenance Task Lists from Previous SAP Releases (CS-AG/PM-PRM-TL)

Use

Since Release 3.0D, deletion flags always refer to all change statuses [Page 109] of a maintenance task list. If you set a deletion flag for a change status, the deletion flag is set simultaneously in the entire task list.

In previous SAP releases, deletion flags were handled differently. For this reason, there is report RCPREDEL.

Use this report once after the data transfer from a previous release to create the same prerequisites for old and new maintenance task list data. You do not need this report for data which you create in releases from 3.0D onwards.

Report RCPREDEL

Task lists from previous SAP releases may only have one deletion flag for individual change statuses.

You can release existing deletion flags to all change statuses of the task list using the report RCPREDEL. This is important if you want to enter deletion flags as a criterion for your archiving session with a deletion program.

If you archive task lists from previous releases (selection criterion Deletion flags) without previously having used the report RCPREDEL, only those task lists which have a deletion flag on all change statuses are archived. Task lists which have deletion flags on individual change statuses are not selected if you enter deletion flags as a criterion.
You archive your inspection lots (archiving object QM_CONTROL) before you archive maintenance task lists. Before deleting, the system checks whether the maintenance task lists (PM task lists) are used in the following objects:

- Maintenance item
- Inspection lot
  - This criterion is only relevant if you use the Quality Management (QM) application component. The system can only archive the maintenance task list if it is no longer being used in an inspection lot.
- Maintenance and service orders
  - Is the maintenance task list used to create service orders automatically?
- Other uses
  - You can use the SAP enhancement CPRE0001 to define criteria that the system should check before a maintenance task list can be archived.

What happens if a task list is still being used?
If a usage check finds a task list which is still being used and meets your customer-specific check criteria (SAP enhancement CPRE0001), the following scenarios can occur:

- The archiving session is terminated. You receive a message with information about the task list which is still being used. If you want to use this option, do not select the indicator Log in the variant maintenance.
- The archiving session finishes completely. At the end, you receive a log [Ext.] which lists all the task lists which have not been archived or deleted owing to the usage check. If you want to use this option, set the Log indicator in variant maintenance.

See also:
The Network Graphic [Ext.]
Authorizations (CS-AG/PM-PRM-TL)

To archive task lists, you need authorization for the object I_ROUT in addition to general archiving authorization [Ext].

To delete with Archiving for:

- Activity 24: Generate archive files
- Activity 41: Delete from the database

To delete without Archiving for:

- Activity 25: Delete from the database
Calling Up Task List Archiving (CS-AG/PM-PRM-TL)

1. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for Archiving.

2. Enter the archiving object (PM_PLAN for task lists) and choose Archive.

3. Enter a variant.
   If you want to create a new variant, enter the name of the variant and choose Maintain.
   You reach the variant maintenance for archiving task lists. The variant contains the
   selection criteria for archiving and deleting task lists.
   Maintain the selection criteria and note the deletion criteria [Page 108]. Choose
   Continue.

4. Define the start date.

5. Define the spool parameters.

6. Choose Generate job.
   The archive files are generated for the start date in the background. After the archiving
   session, you receive a log [Ext.].

   If Start automatically is selected for the deletion program in archiving object
   Customizing [Ext.], the deletion program is called up automatically as soon as the
   first archive file is generated. Note that this indicator is set as standard.

See also:
The Data Archiving Procedure [Ext.]
Deleting Task Lists (CS-AG/PM-PRM-TL)

Prerequisites

You have generated an archive file. If the deletion program is not called up automatically after the first archive file is generated, (see Customizing of Archiving [Ext.]), you must start the deletion program manually, once the system has generated all the archive files.

You can also delete maintenance task lists which do not have a deletion flag. Deletion flags are not a prerequisite.

You can either:

- Process an entire archiving session with all the archive files generated
- Choose individual archive files for processing

Procedure

1. Choose Tools → Administration → Administration → Archiving.
2. Enter the archiving object (PM_PLAN for task lists) and choose Delete.
   The screen Archive Management: Execute Deletion Program appears.
3. Choose Archive selection.
   A dialog box shows you all the archiving sessions which are available for the archiving object selected.
4. If you want to process a complete archiving session, select the archiving session and choose Continue.
   If you only want to process certain archive files, choose Display files.
   All archiving sessions which have not yet been processed are displayed, together with your archive files. Select the required archive files and choose Continue.
5. Define the start date.
6. Define the spool parameters.
7. Choose Generate job.
   The task lists selected are deleted for the start date in the background. At the end of the deletion program, you receive a standard log [Ext.].

See also:
Deleting Archived Data from the Database [Ext.]
Deleting Task Lists Without Archiving (CS-AG/PM-PRM-TL)

Procedure


   You reach the Deletion of Task Lists Without Archiving screen.

2. Maintain the selection criteria for deleting task lists or task list objects and note the deletion criteria [Page 108].

3. Choose Execute.

   The task lists or task list objects selected are deleted completely from the database. You obtain a standard log [Ext].
Archiving of Maintenance Plans (CS-AG/PM-PRM-MP)

Definition
You can use the archiving object [Ext.] PM_MPLAN to archive maintenance plans in the Plant Maintenance application component.

Use
The system archives the maintenance plans using the archiving class PM_MPLAN. It comprises the following tables:

<table>
<thead>
<tr>
<th>Table</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPLA</td>
<td>Maintenance plan</td>
</tr>
<tr>
<td>MMPT</td>
<td>Cycle definitions and measuring points for the maintenance plan</td>
</tr>
<tr>
<td>MHIS</td>
<td>Maintenance plan calls</td>
</tr>
<tr>
<td>MHIO</td>
<td>Call objects, call object history</td>
</tr>
<tr>
<td>ONR00</td>
<td>Object number</td>
</tr>
</tbody>
</table>

The system archives the maintenance item(s) for a maintenance plan using the archiving class PM_MPOS. It comprises the following tables:

<table>
<thead>
<tr>
<th>Table</th>
<th>Short Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPOS</td>
<td>Maintenance item</td>
</tr>
<tr>
<td>ILOA</td>
<td>Location and account assignment for maintenance object (PM object)</td>
</tr>
<tr>
<td>OBJK</td>
<td>Object list for Plant Maintenance</td>
</tr>
<tr>
<td>ONR00</td>
<td>Object number</td>
</tr>
</tbody>
</table>

Status objects are archived using the archiving class STATUS, texts using the archiving class TEXT, and the settlement rule for the maintenance item using the archiving class K_SRULE.

The separate archiving of maintenance items, that is, maintenance items not assigned to a maintenance plan, is currently not possible. You can only archive and delete maintenance items together with the assigned maintenance plan. You therefore assign individual maintenance items to a maintenance plan (for example, a “dummy maintenance plan”) and archive the maintenance item(s) using this maintenance plan.
Application-Specific Features (CS-AG/PM-PRM-MP)

Use

You can use the archiving object [Ext.] PM_MPLAN to archive and delete maintenance plans which do not need to be accessed directly in the system.

The separate archiving of maintenance items, that is, maintenance items not assigned to a maintenance plan, is currently not possible. You can only archive and delete maintenance items together with the assigned maintenance plan. You therefore assign individual maintenance items to a maintenance plan (for example, a “dummy maintenance plan”) and archive the maintenance item(s) using this maintenance plan.

 Archived maintenance plans cannot be displayed.

Prerequisites

The following prerequisites must be fulfilled so that the system can set the status DLT (deletion indicator, to be archived) for a maintenance plan in the initial run:

- The maintenance plan has the status Deletion flag.
- All maintenance calls called up for the maintenance plan have the status Completed.
- If you use maintenance plans for pieces of equipment of category Production resources/tools (PRT equipment) in your company and set the indicator Use in PRT equipment in the variant for the initial run, then the maintenance plan can also no longer be used in a piece of PRT equipment. For more information, see Variant Settings for the Initial Run (PM-PRM-MP) [Page 120].

Features

Two functions are available for flagging maintenance plans for deletion:

- Setting a Deletion Flag for a Maintenance Plan [Ext.]
- Setting a Deletion Flag for Several Maintenance Plans Simultaneously [Ext.]

You can use this function to select several maintenance plans, and to set the status Deletion flag for all the maintenance plans selected.

When the system sets a deletion flag, it does not perform any checks.

Initial Run

The initial run program prepares the data in the database for archiving. In the initial run variant, you enter the selection criteria for the maintenance plans which you want to archive and delete (see Variant Settings for the Initial Run [Page 120]). If all the prerequisites have been fulfilled, the system also sets the status Deletion indicator, to be archived for all maintenance plans selected with the status Deletion flag.

When the system sets a deletion indicator for a maintenance plan, all the calls still on hold for this maintenance plan are deleted.

The initial run generates a log [Page 124].
Archiving

The archiving program writes the database tables of the maintenance plans listed under the object definition [Page 117] to the archive.

⚠️

When *Start automatically* is set for the deletion program in Customizing of Archiving [Ext.], and a productive variant is selected for the archiving program, the system starts the deletion program in connection with its productive variant. This means that the system deletes the archived data from the database.

The archiving program generates a log [Page 21].

Deleting

The deletion program deletes all the database records for the maintenance plans and the maintenance items assigned to them, as well as the dependent database records (for example, text, status, settlement rule) which have been successfully archived.

If the deletion program is not called up automatically after the activity *Archive* has been completed successfully, you must wait until all the archiving is completed. You can process an entire archiving session with all the archive files generated or you can select individual archive files for processing.

The deletion program generates a log [Page 124].
Variant Settings for the Initial Run (CS-AG/PM-PRM-MP)

In the variant maintenance for the initial run, different criteria are available for selecting maintenance plans (for example, maintenance plan category, maintenance plan area, equipment). Note the following features for the selection criteria equipment, functional location and equipment of category Production resources/tools (PRT equipment):

- **Equipment and Functional Location**
  
  Note that the system also selects a maintenance plan if additional maintenance items with other pieces of equipment or functional locations are assigned to it. This also applies for all selection criteria from the maintenance item.

- **Usage in PRT Equipment**
  
  If you use maintenance plans for pieces of PRT equipment in your company, you must set the indicator *Use in PRT equipment* in the initial run. The system thereby checks whether the maintenance plan is used in pieces of equipment. Check whether the equipment should be archived before the maintenance plan is archived, or delete the maintenance plan entered in the PRT equipment.
Dependencies (CS-AG/PM-PRM-MP)

When archiving data, you must consider dependencies between archiving objects, such as those between maintenance plans and pieces of equipment of category *Production resources/tools* (PRT equipment).

Therefore, before you archive maintenance plans, we recommend that you archive PRT equipment or eliminate existing links to PRT equipment.

Generally, you cannot archive data until dependent objects have been archived. For more information about the network graphic which shows the dependencies between archiving objects, see *The Network Graphic [Ext.]*.
The system uses the authorization object I_VORG_MP to check whether the following authorizations are available for a maintenance plan category:

- Setting and resetting the status `DFLAG (Deletion flag)`
- Setting the status `DLT (Deletion indicator, to be archived)`

If these authorizations are not available, the system terminates processing.

See also:

Authorization Check [Ext.]
Calling up Maintenance Plan Archiving (CS-AG/PM-PRM-MP)

7. Choose Tools → Administration → Administration → Archiving.
   You reach the initial screen for archive management.

8. Enter the name of the archiving object (PM_MPLAN for maintenance plans) and choose Continue.
   The system displays the available activities belonging to the object.

9. You can now select and execute the required activities, for example, “Initial run”, “Archive”.
Log (CS-AG/PM-PRM-MP)

Use
In addition to the standard log [Ext.], the different archiving programs generate application-specific logs.

Initial Run
The log for the initial run contains the following data in detail:

- Start and end of the initial run
- Statistics
  - Number of maintenance plans selected
  - Number of deletion indicators set
- Where necessary, reasons why deletion indicators could not be set (for example, calls made which have not yet been completed)
- Information about whether the program was executed in test mode

Archiving
The archiving log contains the following data in detail:

- Start and end of archiving
- Number of maintenance plans archived
- Information about whether the program was executed in test mode

Deleting
The deletion program generates a standard log [Ext.].

See also:
Archive Management [Ext.]