

Release Notes
Corporate Services
SAP enhancement package 4 for SAP ERP 6.0



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EH&S Compliance Management

Business Function REA, SAP Recycling Administration

J_7L_REA_CORE: REA, Recycling Administration (New)

Use

The business function *REA Recycling Administration* (J_7L_REA_CORE) is available as of *SAP ECC 6.0, Enhancement Package 4 (EA-APPL 604)*.

You can use it to settle your recycling processes with any recycling partner within and outside of Europe. Recycling Administration (REA) enables precise financial reporting and supports your company by providing multiple cost analysis functions. The focus of Recycling Administration is on item or weight-based fee calculation for specific materials, as well as end-to-end traceability and the implementation of legally defined reporting procedures to the environment authorities. In addition, other areas of implementation (for example, calculating copyright fees) are possible using custom implementations.

The central process of Recycling Administration is declaration administration. REA creates declarations for reporting incurred costs for a recycling partner with whom you work according to individual requirements. REA then forwards these declarations to Financial Accounting (FI) for further processing.

REA builds on a separate master data concept of articles, packaging, and fractions, which allows you to create a more precise settlement basis. An REA article is a material that is used as the main value in declaration administration on the basis of the contract between the user (for example, a manufacturing company) and the recycling partner.

REA-specific recycling contracts enable you to organize the contract data defined in the licensing agreements (for example, conditions or price lists) for each of your recycling partners.

REA provides extensive reporting functions to analyze the costs of the recycling process and to support cost reductions.

Effects on Existing Data

When you integrate REA into the SAP ERP standard system, there is no change in functional scope. The functions are identical to those in the add-on version. Minor adjustments have, however, been made to the interface.

Note

The functions of the *REA, Recycling Administration* (J_7L_REA_CORE) business function are available with the shipment of *SAP ECC 6.0, Enhancement Package 4 (EA-APPL 604)*. Customers who have already implemented REA as an add-on in previous SAP releases must consider the processes of the business function concept when upgrading to the current release and activate the *REA, Recycling Administration* business function manually.

See also

For more information, see SAP Library at *SAP ERP Central Component -> Logistics -> Sales and Distribution -> Billing -> Recycling Administration*.

Enterprise Asset Management

Business Function Enterprise Asset Management - Configuration Control

LOG_EAM_CC: Configuration Control Innovations

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4** (EA-PLM 604), business function ***Configuration Control Innovations*** (LOG_EAM_CC), the following enhancements have been made to the Configuration Control function:

- o **MPL checks during installation**
- o Specify behavior of the configuration check in the Configuration Control Workbench
You can now specify whether a full check or a filtered check is carried out. With the filtered check, you can filter out actual and allowed objects from the configuration.
A new dropdown box appears in the ***Configuration Check*** area of the Configuration Control Workbench (CCM2) when you implement the new Business Add-In BADI_CCM_CHECK_SCOPE in Customizing under ***Plant Maintenance and Customer Service -> Maintenance and Service Processing -> System Enhancements and Data Transfer -> Business Add-Ins -> Configuration Control -> BAdI: Define Customer-Specific Scope of Configuration Check***.
- o Simultaneous usage of MPLs at different installation locations
You can now assign an MPL to several installation locations simultaneously and all MPLs are checked against their corresponding actual elements during the configuration check. All the MPLs are displayed in the allowed configuration area of the Configuration Control Workbench. Previously only one instance of the MPL was considered in the configuration check.
- o Archiving enhancement of iPPE/MPL nodes
The system now prevents the archiving of MPL nodes with an access link. This ensures that no MPL nodes are archived unless it is certain that the MPL structure to which the node belongs is not connected to an actual configuration (technical object structure).
- o Simultaneous material usage in BoM and MPL node
New MPL node types are available which enable you to use the same materials in iPPE variants and in material BOMs. This was not possible with the standard iPPE node types.
- o Report for conversion of standard iPPE (PVS) structures to MPL structures
There is a new conversion report which you can use to convert your iPPE/PVS structures to MPL structures, enabling you to use the same materials simultaneously in the MPL structures and in material BOMs. There is a new standard MPL user profile available.

Effects on Existing Data

The following user interface elements are new:

- o Transaction CCM2, in screen area *Configuration Check*, new dropdown box
- o Program SAPLIE4N_CGP, screen 200, new screen area *Extra Settings for Installation*

Effects on Customizing

You must activate the business function **Configuration Control Innovations** (LOG_EAM_CC), **Enterprise Asset Mgmt Part 1** (LOG_EAM_CI_1), and **Enterprise Asset Mgmt Part 2** (LOG_EAM_SIMP).

The IMG activity **Make General Settings for**

Installation/Dismantling (*Plant Maintenance and Customer Service -> Maintenance and Service Processing -> Configuration Control -> Make General Settings for Installation/Dismantling*) has been enhanced with an extra area *Extra Settings for Installation*.

There is a new BAdI BADI_CCM_CHECK_SCOPE for defining the scope of the configuration check.

See also

For more information, see SAP Library under **ERP Central Component -> Logistics Plant Maintenance (PM) -> Technical Objects(CS-BD/PM-EQM) -> Configuration Control**.

LOG_EAM_CC: MPL Checks During Installation (New)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4** (EA-PLM 604), business function **Configuration Control Innovations** (LOG_EAM_CC), the following enhancements have been made to the MPL checks during installation (with the exception of installation mode 'goods movement out of stock without PM integration').

Previously, if you had a multiple MPL structure, during the MPL check, the check was run on the very top MPL of the structure. Therefore, you could only install a technical object into an assembly if the assembly was not installed into a superior assembly. Now in addition to this check (**Check Top MPL**) there are two further check options:

- o **Check MPL of Installed Object**
In this check, the MPL of the installed object is checked, even if the assembly of the technical object is installed in a superordinate assembly (actual configuration).
- o **No MPL Check**
No MPL-related checks are run.

You make the setting for the MPL check in Customizing under **Plant Maintenance and Customer Service -> Maintenance and Service Processing -> Configuration Control -> Make General Settings for Installation/Dismantling**. This IMG activity has been enhanced with an extra area **Extra Settings for Installation**.

Effects on Customizing

To use this function, you must activate the business function **Configuration Control Innovations** (LOG_EAM_CC).

Business Function Enterprise Asset Management: Continuous Improvement EhP4

LOG_EAM_CI_3: EAM: Continuous Improvements

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604)**, the business function **LOG_EAM_CI_3** is available. This business function allows you to use various enhancements for processes in plant maintenance.

For more information, see the following release notes:

- o **Generic Object Services in Plant Maintenance Order**
- o **Requirement Date in Plant Maintenance Order**
- o **Do Not Release Maintenance Plan Immediately**
- o **Action Log in Maintenance Task Lists**
- o **Fleet Management**
- o **Inspection Rounds**
- o **Work Clearance Management**
- o **BAdI for Synchronization of Work Center in Order/Notification**
- o **Pool Asset Management: Archiving**
- o **Archiving Equipment: Customer-Specific Check**
- o **Multilevel Lists for Technical Objects**
- o **Authorization Check for Order Transactions**

See also

For more information, see the SAP Library under **Business Function Sets and Business Functions -> Enterprise Business Functions -> Plant Maintenance**.

LOG_EAM_CI_3: Generic Object Services in Order (New)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604)**, **Business Function LOG_EAM_CI_3**, the following new features are available:

If you have used **generic object services** to assign one or more facilities to an order, this is displayed by a symbol. The facilities can be called up directly by using this symbol.

Effects on Existing Data

Existing data is not affected.

LOG_EAM_CI_3: Required Date in Order (New)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604)**, **Business Function LOG_EAM_CI_3**, the following new features are available:

You can manually enter or change the required date (date and time) in an order on the detail screen for the component. A checkbox is automatically set and the system does not recalculate the required date if the order is rescheduled.

Effects on Existing Data

Existing data is not affected.

LOG_EAM_CI_3: Do Not Release Maintenance Plan Immediately (New)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604)**, **Business Function LOG_EAM_CI_3**, the following new features are available in the maintenance plan:

You can use an **indicator** in the maintenance plan item when scheduling the maintenance plan to control that orders created from the maintenance plan are **not released immediately**.

You can use this to control the **"Set Release Immediately"** indicator. from Customizing for the order type, providing that this indicator is set in Customizing.

Effects on Existing Data

Existing data is not affected.

LOG_EAM_CI_3: Action Log in Maintenance Task List (New)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3**, the following new features are available in the maintenance task lists:

Changes to task lists for equipment and functional locations, and changes to general maintenance task lists are recorded in an action log. This enables you to track who has made which status or data changes to which fields, and when. Changes to task lists with change numbers are also recorded in the action log.

The action log can be called from the task list in the following places:

- o Task list header
- o Task list overview
- o Operation overview
- o Maintenance package for operation
- o Component overview
- o Relationships
- o Production resources/tools

Changes to the following fields are recorded in the action log:

Task list header

- Use
- Plan group
- Status
- Facility status
- Maintenance strategy
- Deletion flag
- Inspection points
- **Operation**
- Operation number
- Suboperation
- Work center
- Plant
- Control key
- Operation description
- Work for operation
- Unit of work
- Capacity required
- Normal duration of operation
- Unit of normal duration
- Calculation key
- Work percentage

- Distribution of capacity requirements
- Functional location
- Equipment
- **Maintenance package**
- Cycles
- **Production resources/tools**
- Item
- Control key for administration of production resources/tools
- Quantity
- **Components**
- Material number (create/delete)
- Unit of measure for component
- Relevance to materials planning/BANF creation
- **Relationships**
- Relationship (create/delete)
- Factory calendar
- Relationship offset
- Unit for relationship offset
- Work center
- Plant

Effects on Existing Data

Existing data is not affected.

LOG_EAM_CI_3: Fleet Management (Enhanced)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3**, the following new features are available in fleet management:

Enhanced Display of Reference Object

If you choose the **Equipment and Assembly** or **Only Equipment** entries as the **Reference Object View** in notifications and orders, a field is added to the displayed reference object. You specify this field in Customizing.

U.S. Units in Vehicle Consumption Analysis

You can use U.S. units in the vehicle consumption analysis (MCIZ).

4-Character Output Length for Gas Station

The output length of the gas station in transaction for creating consumption-relevant measurement documents (IFCU) has been increased from 3 to 4 characters.

Cancellation of Measurement Points and Goods Movement

By activating the business function, you can cancel measurement points and good movements that you recorded using consumption-relevant measurement documents (transaction IFCU).

Note

Note: You can only delete all documents created for one point in time all at once. You can only cancel documents that were created after the switch was activated. The document creation date is the decisive factor.

Customer-Specific Checks

When you save measurement values (measurement documents), you can perform your own checks using Business Add-In **IMRC_CHECK_RDGS**.

Effects on Existing Data

The output length for the gas station has increased from 3 to 4 characters.

Existing data is not affected.

Effects on Customizing

Specify the additional field that is to be displayed for the reference object for vehicles, by choosing **Set Up Reference Object Screen for Vehicles**.

If you want to make your own checks when saving measurement values, implement the **Check Validity of Measurement Values BAdI**.

LOG_EAM_CI_3: Inspection Rounds (New)

Use

As of SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3, new functions are provided in the **general task lists, maintenance orders, and service orders** that you can use for the inspection rounds.

In general task lists and orders, you can now specify functional locations and/or equipment at the operation level. You can also link measuring points and counters to the operations. For technical reasons, they are linked using production resources/tools.

Note

The standard system only allows measuring points and counters that are assigned directly to the technical object or to a technical object that is below the technical object in the hierarchy.

You can override this standard setting using the **BAdI: Perform Measuring Point Checks in PRT Environment** BAdI.

You can use the general task list in maintenance planning or in preventative plant maintenance.

- o If you create a maintenance plan based on the general task list and maintenance orders are then created from this maintenance plan during scheduling, the details for the technical objects are copied into the order.
- o If you link the general tasks list in a plant maintenance order, the details for the technical object are copied into the order.

In the overall completion confirmation (IW42), you can have the system suggest planned measuring points as production resources/tools.

Effects on Data Transfer

Existing data is not affected.

Effects on Customizing

The technical objects are only copied to the order when the enhanced **object list functions (OPROL)** are inactive.

The following Business Add-Ins are available:

- o **BAdI: Perform Checks when Changing Technical Objects**
- o **BAdI: Perform Measuring Point Checks in PRT Environment**

See also

For more information, refer to the SAP documentation for ***Inspection Rounds***.

LOG_EAM_CI_3: Work Clearance Management (Enhanced)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3**, the following new features are available in work clearance management:

- o **Lineup**
A lineup is comprised of one or more verification lists.
- o **Verification lists**
A verification list groups several **technical objects** to check the current operational conditions compared to the expected operational conditions.

Effects on Existing Data

This is a new development with new Customizing activities. This development does not affect existing user interfaces.

Effects on Customizing

Make settings in Customizing for work clearance management by choosing **Lineups**.

See also

For more information, refer to the SAP documentation under **Lineup**.

LOG_EAM_CI_3: BAdI: Work Center Synchronization in Order/Notification (New)

Use

As of SAP **ECC 6.0, Enterprise Extension PLM, Enhancement Package 3 (EA-PLM 604)**, business function **Enterprise Asset Management (LOG_EAM_CI_3)**, a Business Add-In (BAdI) is provided that you can use to synchronize the responsible work center for a plant maintenance or service order with the corresponding **header notification** (plant maintenance or service notification).

If the responsible work center for a maintenance or service order is changed, the responsible work center in the related header notification (maintenance or service notification) is adjusted automatically.

If the responsible work center for a maintenance or service notification is changed (header notification of an order), the responsible work center for the related maintenance or service notification order is adjusted automatically.

Effects on Existing Data

This is a new development with a new BAdI and a new, related Customizing activity.

Effects on Customizing

The BAdI is provided as a new Customizing activity under **Plant Maintenance and Customer Service -> System Enhancements and Data Transfer -> Business Add-Ins -> BAdI: Set Up Synchronization of Work Center in Order/Notification**.

LOG_EAM_CI_2: Pool Asset Management: Archiving (New)

Use

As of SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3, you can archive two tables from the **Pool Asset Management (PAM)** application. For this purpose, the following two PAM tables have been added to the existing archiving object, PM_QMEL: *Requirements (Objects to be Scheduled)* (technical name: PAMS_NEED) and *Splits (Objects to be Scheduled)* (technical name: PAMS_SPLIT).

Effects on Existing Data

The existing archiving object for plant maintenance notifications, PM_QMEL, has been enhanced.

LOG_EAM_CI_3: Archiving Equipment: Customer-Specific Check (New)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3**, three new Business Add-Ins (BAdIs) are available for equipment archiving. You can use these BAdIs to make your own checks when archiving equipment.

Effects on Existing Data

Existing data is not affected.

Effects on Customizing

If you want to make your own checks when archiving equipment, create BAdI implementations.

LOG_EAM_CI_3: Multilevel Lists for Technical Objects (Enhanced)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3**, you can display maintenance plan data in multilevel lists for equipment and function locations.

Effects on Existing Data

Existing data is not affected.

LOG_EAM_CI_3: Authorization Check for Order Transactions (Enhanced)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function LOG_EAM_CI_3**, the following transactions have been added to the authorization checks in the standard system:

- o IW32 - Change Order
- o IW33 - Display Order
- o IW41 - Enter Order Confirmation
- o IW42 - Overall Completion Confirmation
- o IW43 - Display Order Confirmation
- o IW44 - Collective Confirmation
- o IW45 - Cancel Order Confirmation
- o IW47 - Display Confirmations (List Display)
- o IW37 - Change Operations: Selection of Order Operations
- o IW48 - Confirmation Using Operation List: Selection of Order Operations
- o IW49 - Display Operations: Selection of Order Operations
- o IW70 - Maintenance Order: Total Network Scheduling

This development is realized using a BAdI implementation for BAdI **BADI_EAM_AUTHORITY_CHECK_ORDER**.

Effects on Existing Data

Existing data is not affected.

Effects on Customizing

You can use your own implementations for BAdI

BADI_EAM_AUTHORITY_CHECK_ORDER to perform your own checks.

Business Function EAM - Project-Oriented Maintenance EhP4

LOG_EAM_POM_2: MEB and Logbook Innovations (new)

- o **Use**

As of **SAP ECC 6.0, Industry Extension Discrete Industries and Mill Products, Enhancement Package 4** (ECC-DIMP 604), business function **MEB and Logbook Innovations** (LOG_EAM_POM_2), the following enhancements have been made to logbook and the Maintenance Event Builder (MEB).

For more information, see:

- o **Logbook Innovations**

- o **MEB Innovations**

- o **Note**

- o If you activate business function LOG_EAM_POM_2 and import Support Packages for the software components SAP-APPL or EA-APPL, you must also import the ECC-DIMP Support Packages.

- o Before activating enterprise extensions, see SAP Note 933963 for possible restrictions.

- o **Effects on Customizing**

You must activate the business functions **MEB and Logbook Innovations** (LOG_EAM_POM_2) and **Project Oriented Maintenance** (LOG_EAM_POM).

- o **See also**

For more information, see SAP Library under **Business Functions Sets and Business Functions -> Business Functions in SAP ERP -> Logistics -> Plant Maintenance -> MEB and Logbook Innovations**.

LOG_EAM_POM_2: Maintenance Event Builder (MEB) Enhancements (new)

- o **Use**

As of **SAP ECC 6.0, Industry Extension Discrete Industries & Mill Products, Enhancement Package 4**, business function **MEB and Logbook Innovations** (LOG_EAM_POM_2), the following functions are available for the MEB:

- o **Update maintenance work order with project information**

In the MEB, when orders are created for a revision with WBS elements, the WBS element is updated in the **Location** tab page as well as the **Additional Data** tab page. Previously, you could only see the updated WBS element on the **Additional Data** tab page and you had to manually enter the WBS element on the **Location** tab page. This information is required during order confirmation.

To enable the WBS element information to be copied to the **Location** tab page, you use user parameter DIWPS_WBS_LOC. This parameter must be defined in the user profile as 'X'. If you do not want to enable this function, do not define this parameter in the profile.

- o **Authorization object check for PM technical objects in the MEB**

Users with no authorizations for an authority group in a technical object (authorization object I_BEGRP) are restricted access to that technical object. This is done to restrict user access to some 'sensitive' technical objects, for example, a part inside a nuclear engine. These restrictions are also inherited by objects such as notifications and orders which are created for these technical objects. In core transactions for the maintenance of notifications and orders such as **IW22/ IW32** these checks were already in place, but were not previously available in the MEB.

Authorization checks are now run on revisions, notifications and order objects in MEB and an authorization error is displayed on further processing of these objects. The checks are implemented in all the three work areas in the MEB.

In the notification work area, if the notification selection involves notifications for which a user has insufficient authorizations, then these notifications are removed from the selection.

In the revision work area, if the revision selection involves revisions for which the user has insufficient authorization, then such revisions are removed from the selection.

If a revision has one or more notifications assigned to it and the user does not have authorization to view all the notifications then those notifications are not shown below the revision. The same happens for orders below a revision. Such revisions which have partial data are always seen in display mode. No further planning can be done by the user on these revisions.

In the planning board, the unauthorized revisions and technical objects cannot be seen.

- o **Note**

- o If you activate business function LOG_EAM_POM_2 and import Support Packages for the software components SAP-APPL or EA-APPL, you must also import the ECC-DIMP Support Packages.
- o Before activating enterprise extensions, see SAP Note 933963 for possible restrictions.

- o **Effects on Customizing**

You must activate the business functions *MEB and Logbook Innovations* LOG_EAM_POM_2 and *Project Oriented Maintenance* LOG_EAM_POM.

- o **See also**

For more information, see the SAP Library under *ERP Central Component -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance Planning -> Work Packaging and Sequencing -> Maintenance Event Builder*.

LOG_EAM_POM_2: Logbook Innovations (new)

o Use

As of **SAP ECC 6.0, Industry Extension Discrete Industries and Mill Products, enhancement package 4** (ECC-DIMP 604), business function **MEB and Logbook Innovations** (LOG_EAM_POM_2), the following enhancements have been made to logbook.

From now on, the logbook technical object hierarchy is synchronized with the actual technical object hierarchy. If a change is made to the technical object structure, this change is reflected immediately in the Logbook application when the logbooks are reselected.

At present, a logbook for a technical object is always seen at the top level irrespective of the hierarchy, unless you have moved it manually to a functional location using the **Sub-Logbook** option. Using this function, it was possible to see the logbooks in a hierarchical form. However, this hierarchy was not in sync with the technical object hierarchy. Also moving sub-logbooks permanently stores the node levels in the database, so if there is any change in the technical object hierarchy, this change was not reflected automatically in the logbook hierarchy for the same technical object.

There are two possible modes for running the logbook application.

- o Logbook with sub-logbooks without synchronization of the technical object structure.
- o Logbook without the function for manually moving sub-logbooks and with synchronization of the technical object structure (synchronous logbooks)

If you want to use the synchronous logbook object, you must run report DIACL_CUST_LBK_SYNC_MODE. This clears the relations set for the sub-logbook nodes in the database. You access this report in Customizing under *Plant Maintenance and Customer Service -> Maintenance and Service Processing -> Logbook -> Display Synchronized Logbooks*.

Note that this program acts like a switch. Once you have run the program for synchronizing logbooks, it cannot be reversed.

- Logbook Options

There are two new indicators **Logbook Duty** and **Hide Logbook** for creating and hiding logbooks in the master data for equipment and functional locations:

- o On the **Structure** tab page within the functional location master data
- o On the **General** tab page within the equipment master data

To view the new subscreen containing these options, in the view profile for technical objects, you must add screen 141. You do this in Customizing under **Plant Maintenance and Customer Service -> Master Data in Plant Maintenance and Customer Service -> Technical Objects -> General Data -> Set View Profiles for Technical Objects**.

o Logbook duty

If you set this indicator, a logbook is created simultaneously when you create a technical object. If the indicator is set in change mode, it indicates that a logbook exists for that technical object. Previously, you manually created logbooks for a technical object in the logbook application by choosing **Logbook -> Create**.

Once you have run the report DIACL_CUST_LBK_SYNC_MODE for synchronized logbooks, you can no longer create technical objects with logbooks in this way.

- o **Hide Logbook**

If you set this indicator, you can hide logbooks in the logbook hierarchy. If you choose to hide a particular sub-logbook folder, all the application objects (for example, sub-logbooks, log entries, log notifications, measurement documents) below it will be assigned to its superior logbook nodes. Note, that this function will not work if the technical object in the logbook hierarchy is at the top-most level.

- o **Effects on Existing Data**

The following user interface elements are new:

Transaction IE01/IE02/IE03/IL01/IL02/IL03, program SAPLDIACL_GUI_ITOB screen 1200, new subscreen 141 *Logbook* has two new indicators **Logbook Duty** and **Hide Logbook**

- o **Note**

- o If you activate business function LOG_EAM_POM_2 and import Support Packages for the software components SAP-APPL or EA-APPL, you must also import the ECC-DIMP Support Packages.
- o Before activating enterprise extensions, see SAP Note 933963 for possible restrictions.

- o **Effects on Customizing**

You must activate the business functions **MEB and Logbook Innovations** (LOG_EAM_POM_2) and **Project Oriented Maintenance** (LOG_EAM_POM).

- **See also**

For more information, see the SAP Library under *ERP Central Component -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance, Repair, and Overhaul (MRO) -> Maintenance and Service Processing -> Logbook*.

Business Function EAM - Management of Rotables and Repairables

LOG_EAM_ROTSub: Refurbishment & Subcontracting

- Use

As of SAP ECC 6.0, *Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, the business function *Refurbishment & Subcontracting* (LOG_EAM_ROTSub) is available:

This business function provides the following functions for subcontracting, refurbishment orders and stock determination:

Subcontracting

- o **Serialization of Subcontract Purchase Orders and Purchase Requisitions**
- o **Archiving in A&D Subcontracting**
- o **Forward Exchange**
- o **Goods Movement Transaction MIGO**
- o **Special Stocks**
- o **Return Material Authorization (RMA) Orders**
- o **Partial Delivery**
- o **Enhancements to Purchasing in Subcontracting**

Stock Determination

Stock determination in PM/CS orders enables you to define how and from where to withdraw material for goods issues and stock transfers in PM/CS orders based on the material requirements entered.

Refurbishment Orders

- o Support of the following special stock types for refurbishment orders:
 - Sales order stock (special stock indicator E)
 - Project stock (special stock indicator Q)
- o Conversion of planned orders into refurbishment orders from the MRP list or the stock/requirements list.
- o Assignment of one or more notifications to a refurbishment order.
- o Assignment of a refurbishment order to one or more notifications in cases where the material number is the same.
- o Visibility of work in progress by means of a field showing the quantity of rotatable parts still undergoing the refurbishment process. This is supported by movement types 313 and 315 for two-step stock transfer.
- o Assignment of serial numbers and equipment to refurbishment orders
- o Support of the material upgrade and exchange process by means of a material number change from within the goods receipt for the refurbishment order, including possibility to create a new material from within the goods receipt as well as a check of the new material via the serial number profile.

- **Note**

- o If you activate business function LOG_EAM_ROTSub and import Support Packages for the software components SAP-APPL or EA-APPL, you must also import the ECC-DIMP Support Packages.
- o Before activating enterprise extensions, see SAP Note 933963 for possible restrictions.
- o You cannot use this business function if you are working with catch weight materials.

- **Effects on Customizing**

You have installed DIMP 6.0 and activated the business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub). See individual release notes for additional requirements.

AD_MRO_CI_3/LOG_EAM_ROTSub: Serialization of Subcontract Purchase Orders and Purchase Requisitions (New)

- Use

As of SAP ECC 6.0, *Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, you can now serialize stock transport items and subcontracting items within purchase orders and purchase requisitions. Previously, serialization was not possible at all for purchase requisitions. The serialization takes place at component level.

You can now "fine-tune" the Customizing settings for serialization. You can define for document types and item categories if the item could, should, or should not be serialized for serial number profiles with new profiles for purchase orders and purchase requisitions.

The serial number assignment function for purchase requisitions appears on the *Material Data* tab page. The serial number assignment function for purchase orders appears on the *Delivery Schedule* tab page.

- Effects on Existing Data

The function is only possible in 'Enjoy' purchase requisitions and 'Enjoy' purchase order transactions. The 'pre-Enjoy' transactions will issue an error message if a serialized purchase order or purchase requisition is changed.

Note that DIMP 6.0 customers who implement the enterprise business function LOG_MM_SERNO will notice interface changes.

If LOG_EAM_ROTSub is ON, the *Spec 2000/SC* tab page is replaced by the tab *Subcontracting* tab page.

If AD_MRO_CI_3 is ON, the *Spec 2000/SC* tab page remains.

Removed interface elements

<u>Transaction</u>	<u>Program/Dynpro</u>
	<u>Element</u>
ME21N, ME22N, ME23N	SAPLMEGUI 1339
	'Spec 2000/SC' tab
	page:Button 'Serial Nos', fields 'Serial no. profile' and 'No. serial numbers'

New Interface elements:

<u>Transaction</u>	<u>Program/Dynpro</u>
	<u>Element</u>
ME21N/ME22N/ME23N/ME29N	SAPLMEGUI/1211
	Button 'Display
Serial Number List'	
ME21N/ME22N/ME23N/ME29N	SAPLMEGUI/1212

Serial Number List'	Button 'Display
ME21N/ME22N/ME23N/ME29N	SAPLMEGUI/1320
	Buttons 'Display
Serial Number List' and 'Assign Serial Numbers'	
ME51N/ME52N/ME53N/ME54N/ME57	
	SAPLMEGUI/3211
	Button
'Display Serial Number List'	
ME51N/ME52N/ME53N/ME54N/ME57	
	SAPLMEGUI/3212
	Button
'Display Serial Number List'	
ME51N/ME52N/ME53N/ME54N/ME57	
	SAPLMEGUI/3319
	Buttons
'Display Serial Number List' and 'Assign Serial Numbers'	

- Effects on Customizing

You must install DIMP 6.0 and activated one of the following, depending on your requirements:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub)
- o Business function set *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

In addition, for both LOG_EAM_ROTSub and AD_MRO_CI_3, you must activate the business function *Serial Numbers in Purchasing* (LOG_MM_SERNO).

You must now make extra Customizing settings for serial number profiles with new profiles for purchase orders and purchase requisitions. You do this in Customizing for *Materials Management -> Purchasing -> Purchasing Documents -> Purchase Order/Purchase Requisition -> Define Document Types*.

For example, you can select a document type NB by double clicking on *Allowed Item Categories*, choosing item category L, then double-clicking on the maintenance view for serial numbers in purchasing documents.

- See also

For more information, see SAP Library under *ERP Central Component -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance and Service Processing -> Subcontracting for MRO Processes -> MRO Subcontracting in Purchasing -> Serial Number Management in Subcontract Purchase Orders and Purchase Requisitions*.

AD_MRO_CI_3/LOG_EAM_ROTSub: Archiving in A&D Subcontracting

- Use

As of *SAP ECC 6.0, Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, you can archive the following:

- o A&D serial number data together with the purchase order data.
- o A&D purchase order item serialization data during standard serialization data archiving.
- o A&D serialized equipment after A&D serialization data archiving.
- o A&D special stock data - A&D special stocks data shall be archived with the standard special stock archiving object.

- Effects on Customizing

You must install DIMP 6.0 and activated one of the following, depending on your requirements:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub)
- o Business function set *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

AD_MRO_CI_3/LOG_EAM_ROTSub: Forward Exchange (Subcontracting)

- Use

As of SAP ECC 6.0, Industry Extension Discrete Industries & Mill Products, Enhancement Package 4, the forward exchange function is available.

If a service provider urgently needs to get a repaired part from the subcontractor and is not able to send the unserviceable parts to the subcontractor before he needs/receives the replacement part, the subcontractor sends a serviceable part from his own stock directly to the service provider. The unserviceable part is sent to the subcontractor at a later point in time, who then repairs it and adds it to his own stock.

You can monitor forward exchange using the A&D subcontracting monitor (transaction **ADSUBCON**).

- o You can start the forward exchange process in the maintenance phase in the following ways:
- o In the master data:
 - Bill of material
 - Task list (create with subcontracting item and maintain forward exchange information in component overview)

You would start the forward exchange process at this point if, for example, you know that certain components always use forward exchange.

- o Directly in the maintenance order
- o During purchasing, you can change purchase order items to include forward exchange information using the *Forward Exchange* button in the A&D subcontracting monitor.

In forward exchange, serialization and A&D-specific special stocks are supported.

- Effects on Existing Data

New interface elements:

<u>Transaction</u>	<u>Program/Dynpro</u>	<u>Element</u>
ADSUBCON		
	DI_SUBCON_MONITOR_2/0050	New button
<i>Forward Exchange</i>		
ADSUBCON		
	DI_SUBCON_MONITOR_2/0050	Icon +
additional information in the table tree for forward exchange items		
ADSUBCON		
	DI_SUBCON_MONITOR_2/0101	New
indicator <i>Returns Item</i> (EKPO-RETPO)		
ADSUBCON		

DI_SUBCON_MONITOR_2/0101 New field
Higher level Item (EKPO-UEBPO)

ADSUBCON

DI_SUBCON_MONITOR_2/0101 New field
Subitem Category (EKPO-UPTYP)

- **Effects on Customizing**

You must install DIMP 6.0 and have activated one of the following options, depending on your requirements:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub).
- o Business function set *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

AD_MRO_CI_3/LOG_EAM_ROTSub: New Functions in Goods Movement Transaction MIGO for A&D Subcontracting (New)

- Use

As of SAP ECC 6.0, *Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, you can use the goods movement transaction **MIGO** for A&D subcontracting goods movements. At present, transactions **MB1B** (for goods issues) and **MB01** (for goods receipts) are used for A&D subcontracting goods movements.

Additionally, the following new serial number functions are available in **MIGO**:

- o During transfer postings to the subcontractor, the system now proposes serial numbers from the purchase order item in case of recursive repairs (subcontracting types 1 and 2).
- o During goods issue from subcontractor stock, the system proposes serial numbers if it is a recursive repair (subcontracting types 1 and 2).

New interface elements

<u>Transaction</u>	<u>Program/Dynpro</u>
	<u>Element</u>
MIGO	SAPLMIGO/0360
	Field 'SNo Equal'

- Effects on Customizing

You must install DIMP 6.0 and have activated one of the following options, depending on your requirements:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub)
- o Business function set *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

AD_MRO_CI_3/LOG_EAM_ROTSub: Special Stock Valuation for Special Stocks (New)

- Use

As of SAP ECC 6.0, *Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, the special stocks **project stock** and **sales order stock** can be valued. Previously this was only possible in the standard system.

- Effects on Customizing

You must have activated one of the following options:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub)
- o Business function set *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

AD_MRO_CI_3/LOG_EAM_ROTSub: Return Material Authorization in A&D Subcontracting (New)

- Use

As of SAP ECC 6.0, *Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, the standard returns and repairs process has been adapted for A&D subcontracting.

- Effects on Existing Data

A service order is generated when the service provider has received the return delivery and the goods receipt has been posted. The subcontracting process then takes place as the service provider sends the returned part to the subcontractor for repair.

The following applies only to sales order stock (E).

- o The system automatically copies the special stock indicator from the PM/CS order to the A&D subcontracting purchase order.
- o The system automatically copies serial numbers from the PM/CS order or the RMA order to the purchase order.
- o The system automatically copies the material provision indicator *Rework Material to Subcontr.* from the PM/CS order to the purchase order.

- Effects on Customizing

You must have activated one of the following options:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub).
- o Business function set *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

For more information, see SAP Library under *ERP Central Component -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance and Service Processing -> Subcontracting for MRO Processes -> RMA Orders in A&D Subcontracting*.

AD_MRO_CI_3/LOG_EAM_ROTSub: Partial Deliveries (New)

- Use

As of SAP ECC 6.0, *Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, it is possible to have multiple goods issues (partial deliveries) with or without outbound deliveries.

- Effects on Existing Data

Multiple Goods Issue with Outbound Deliveries

The components of a subcontracting purchase order (including the forward exchange variant) can be issued in multiple outbound deliveries and their goods movements. The transaction **ADSUBCON** supports the process by proposing (remaining) quantities and serial numbers.

Multiple Goods Issue Without Outbound Deliveries

The components of a subcontracting purchase order (including the forward exchange variant) can be issued in multiple goods movements. The transaction **ADSUBCON** supports the process by proposing (remaining) quantities and serial numbers.

For forward exchange, note that all possible serial numbers appear in the serial number popup, even those that have already been assigned to outbound deliveries. You must check which serial numbers have already been assigned and manually remove them from the selection list.

-

- Effects on Customizing

You must install DIMP 6.0 and activated one of the following, depending on your requirements:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub)
- o *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

- See also

For more information, see SAP Library under *ERP Central Component -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance and Service Processing -> Subcontracting for MRO Processes -> MRO Subcontracting in Outbound Deliveries*.

AD_MRO_CI_3/LOG_EAM_ROTSub: Enhancements to Purchasing in Subcontracting (New)

- Use

As of SAP ECC 6.0, *Industry Extension Discrete Industries & Mill Products, Enhancement Package 4*, the following enhancements have been made to purchasing in subcontracting:

- o Purchase requisition update after changes in PM/CS order
Changes in PM/CS order are now reflected in the corresponding purchase requisition. All changes must be applied while the purchase order is not created (purchase order created from the purchase requisition).
- o Synchronization of purchase order item account assignments and special stock indicator
Purchase order item account assignments in project or sales orders are now automatically synchronized with the special stock indicator for sales order stock and project stock on the *SPEC2000/SC* tab page (if AD_MRO_CI_3 is on) or the *Subcontracting* tab page (if LOG_EAM_ROTSub is on).

- Effects on Customizing

You must install DIMP 6.0 and activate one of the following, depending on your requirements:

- o Business function *Refurbishment and Subcontracting* (LOG_EAM_ROTSub)
- o Business function set *Discrete Industries and Mill Products* (DIMP_SDUD) and business function *Rot/SSP, Subcon Innovations* (AD_MRO_CI_3).

- See also

For more information, see SAP Library under *ERP Central Component -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance and Service Processing -> Subcontracting for MRO Processes -> MRO Subcontracting in Purchasing*.

Business Function Enterprise Asset Management - Time Zone Support in EhP4

LOG_EAM_TZS_1: EAM Time Zone Support

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604)**, the business function LOG_EAM_TZS_1 is available.

You can use this business function to implement functions for time-zone support. This enables you to process certain objects in any time zone. This is advisable if you run processes that cross different time zones.

This function can be used for the following objects:

- o Order
- o Notification
- o Confirmation
- o Measuring point
- o Measurement document

Effects on Existing Data

When you activate this function in Customizing, all previously saved times are interpreted as system time-zone times. They are converted into the user's reference time zone. This means that the times shown on the interface could change by up to 24 hours. The data is not converted; only the interface data is converted.

Effects on Customizing

To use time zone support, you must activate the function for the relevant work area in Customizing.

See also

For more information, see the SAP Library under ***Business Function Sets and Business Functions -> Enterprise Business Functions -> Plant Maintenance.***

Business Function Warranty for Customer Service

LOG_EAM_WTY: Warranty for Customer Service Business Function (New)

Use

As of **SAP ECC 6.0, Industry Extension Discrete Industries & Mill Products (ECC-DIMP 604), Enhancement Package 4** the **Warranty for Customer Service** (LOG_EAM_WTY) business function is available.

With this business function you can use Service Processing with Warranty Claims without having to activate the **Discrete Industries & Mill Products** business function set. This function allows you to process equipment repairs and start subsequent processes if necessary.

In addition, you can create and edit warranty claims in maintenance orders and maintenance notifications. Up to now, these functions were only available for service documents.

Effects on System Administration

When you activate the **Warranty for Customer Service (LOG_EAM_WTY)** business function and import support packages for the SAP_APPL or EA-APPL software components, you must also import the ECC-DIMP support packages.

Effects on Customizing

You make the settings for warranty claims in Customizing for **Plant Maintenance and Customer Service** under **Maintenance and Service Processing -> Integration of Service Processing with Warranty Claims**.

See also

For more information, see the SAP Library under **SAP Discrete Industries & Mill Products -> SAP for Aerospace & Defense -> Maintenance, Repair, and Overhaul (MRO) -> Maintenance and Service Processing -> Integration of Service Processing with Warranty Claims**.

Project and Portfolio Management

Business Function Handling Large Projects - Master Data

OPS_PS_HLP_1: Project System Business Function (New)

Use

As of **SAP ECC 6.0, Enterprise Extension EA-APPL 604, Enhancement Package 4**, the Business Function ***Project System: Handling Large Projects - Master Data*** is available. You can use this Business Function to handle very large projects more effectively. The new cache mechanism enables you to access and change project data more quickly.

This Business Function provides the following new transactions:

<u>Name</u>	<u>Transaction Code</u>
Project Worklist	PSHLP10
Project Editor	PSHLP20
Draft Workbench	PSHLP30
Administrator Workbench	PSHLP90

Effects on Customizing

Make the following setting for this function in Customizing for Project System under ***Handling Large Projects***:

Define Notification Threshold

Set Automatic Deletion of Messages

Define Data Set Profile

See also

For more information, see the following Release Notes:

OPS_PS_HLP_1: Project Worklist

OPS_PS_HLP_1: Project Editor

OPS_PS_HLP_1: Draft Workbench

OPS_PS_HLP_1: Administrator Workbench

OPS_PS_HLP_1: Project Worklist

Use

As of AP ECC 6.0, Enhancement Package 4, Business Function **Project System: Handling Large Projects - Master Data**, you can call and edit projects using the Project Worklist.

The Project Worklist provides you with a user-specific worklist of projects, work breakdown structures, and networks, for which authorizations have been assigned to you using access control lists. The system displays the authorizations you have received via the access control lists for each object. You can go from the Project Worklist to the Project Editor and edit the project with the selected data sets.

See also

For more information, see the release note for the Business Function **Project System: Handling Large Projects** and the SAP Library under **Project System -> Handling Large Projects -> Project Worklist**.

OPS_PS_HLP_1: Project Editor

Use

As of SAP ECC 6.0, Enhancement Package 4, Business Function **Project System: Handling Large Projects - Master Data**, you can edit projects using the new Project Editor. When you call the Project Editor, you can decide which data or data sets you want to see and edit. If required, you can even edit specific data sets in the Project Editor in an unlocked mode, meaning without locking the project / network while editing. When you save changed project data, you have the following save options:

- o The system saves the data directly to the database.
- o The system saves the data as a draft. You can decide if you want the draft to be saved locally or on the database.
- o The system saves the data using a background job. If an error occurs, the system automatically saves a draft, notifies the user, and creates a log.

Effects on Existing Data

You can call the **Project Editor** as follows:

- o In the Project System menu under Handling Large Projects -> Project Editor (transaction code PSHLP20).
- o Via the Project Worklist
- o Via the Draft Workbench, for editing drafts.

The Project Editor user interface is similar to the Project Builder.

Effects on Customizing

Make the following setting for this function in Customizing for Project System under **Handling Large Projects -> Data Selection**:

Define Data Set Profiles

You can use the following Business Add-Ins:

If you want to exclude the option of editing projects in unlocked mode, implement the Business Add-In **BADI_PS_HLP_MD_ENTRY**.

If you want the system to update the cache immediately when you make changes to projects in the Project Editor, implement the Business Add-In **BADI_PS_HLP_CACHE_SAVE**.

You can use the Business Add-In **BADI_PS_HLP_CUST** to include your own customer-specific fields on an additional tab page.

See also

For more information, see the central release note for the Business Function **Project System: Handling Large Projects** and the SAP Library under **Project System -> Handling Large Projects -> Project Editor**.

OPS_PS_HLP_1: Draft Workbench

Use

As of SAP ECC 6.0, Enhancement Package 4, Business Function **Project System: Handling Large Projects - Master Data**, you can edit projects or networks using the Project Editor and save them as drafts. You can then compare these drafts in the Draft Workbench with data from the database or with other drafts, you can open them for further editing in the Project Editor, or even delete them from the database.

Effects on Customizing

Make the following setting for this function in Customizing for Project System under **Handling Large Projects**:

Make Settings for Draft Workbench

See also

For more information, see the release note for the Business Function **Project System: Handling Large Projects** and the SAP Library under **Project System -> Handling Large Projects -> Draft Workbench**.

OPS_PS_HLP_1: Administrator Workbench

Use

As of SAP ECC 6.0, Enhancement Package 4, Business Function **Project System: Handling Large Projects - Master Data**, you can load large projects and networks to a cache, thus making it possible to edit them more quickly in the Project Editor. You can use the Administrator Workbench to manage and monitor this upload process.

With the Administrator Workbench, you can load data for large projects and/or data for project-independent networks either directly to the cache or in the background. If errors occur when loading the data to the cache, the system saves a log that you can then analyze.

By using the Administrator Workbench, you can also analyze log entries for all users that the system saved when data was changed and saved in the Project Editor.

Effects on Customizing

Make the following setting for this function in Customizing for Project System under **Handling Large Projects -> Data Selection** (optional):

Trigger Immediate Database Synchronization

See also

For more information, see the release note for the Business Function **Project System: Handling Large Projects** and the SAP Library under **Project System -> Handling Large Projects -> Administrator Workbench**.

Real Estate Management

Business Function RE, Space and Room Management - New Functionalities

RE_CRE_MISC: Corporate Real Estate (New)

Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604)**, you can use the **Corporate Real Estate** business function. Using this business function, you can enter move planning at an individual level, as well as enter detailed information and run reports for continuous occupancy. This business function also includes new transactions for posting and reversing postings for reservations and continuous occupancy.

For more information, see the following Release Notes:

- o **Individual Move Data (New)**
- o **Degree of Occupancy for Continuous Occupancy (New)**
- o **Reports for Continuous Occupancy (New)**
- o **New Posting Transactions (New)**

See also

For more information, see the SAP Library under Business Function Sets and Business Functions -> Enterprise Business Functions -> Accounting -> **Real Estate -> Corporate Real Estate**.

RE_CRE_MISC: Individual Move Dates (New)

Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Corporate Real Estate**, you can enter individual move dates in the move plan for each person moving.

This means that individual persons who are part of a move can move (to or from their desk assignment) earlier or later than others in the move.

In addition to entering the move-in or move-out date for the entire move directly in the move plan, you can also enter an individual move-in or move-out date for each person affected by the move. If you enter an individual move-in or move-out date for a person, this entry takes precedence over the entry for the move as a whole.

Effects on System Administration

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

- o **ORPO (Seating/Move Planning)**

The prerequisite for this is that you activated the business function **Real Estate Management (RE_GEN_CI_1)**.

See also

For more information, see the **central Release Note** for the business function **Corporate Real Estate** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

RE_CRE_MISC: Degree of Occupancy for Continuous Occupancy (New)

Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Corporate Real Estate**, in the functions for continuous occupancy, you can specify to what degree a person occupies a desk assignment.

When defining continuous occupancy for a person, you can enter a degree of occupancy.

Using the degree of occupancy, you can specify, for example, that a person sits at a certain desk for half-days only.

You can specify standard and maximum values for the degree of occupancy using the Business Add-In (BAI) **Determine/Check Degrees of Occupancy** (BADI_REOR_PO_OCCQUOTE). By entering an appropriate maximum value in the BAI, you can specify that an occupant is able to occupy more than one desk assignment (that is, a degree of occupancy greater than 100%).

The degree of occupancy has a direct effect on the values reflecting the utilization of the reservation objects. It is also considered during the calculation of prices for billing the costs involved.

Effects on System Administration

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

- o **ORPO (Seating/Move Planning)**

The prerequisite for this is that you activated the business function **Real Estate Management (RE_GEN_CI_1)**.

See also

For more information, see the **central Release Note** for the business function **Corporate Real Estate** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

RE_CRE_MISC: Reports for Continuous Occupancy (New)

Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Corporate Real Estate** the program **Information System: Continuous Occupancy - Utilization** (RFREISPOCAP) is available for reporting on continuous occupancy.

You can use this program to get detailed information on current and historical occupancy, on the utilization of capacity, and on vacancies.

See also

For more information, see the **central Release Note** for the business function **Corporate Real Estate** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

RE_CRE_MISC: New Posting Transactions (New)

Use

As of **SAP ECC 6.0**, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Corporate Real Estate, the existing transaction for posting reservations and continuous occupancy was replaced by two new transactions: Posting of Continuous Occupancy (REORCOSTPOSTPO) and **Posting of Reservations** (REORCOSTPOSTRS).

The new posting transactions bring the following changes:

The postings can be reversed using two new transactions: **Reverse Costs of Continuous Occupancy** (REORCOSTPOSTPORV) and **Reverse Costs of Reservations** (REORCOSTPOSTRSRV).

- o In the case of continuous occupancy, the items for the selected posting period are **no longer** generated for each billing. Instead they are generated based on the posting frequency that is entered in Customizing for the reservation object type.
- o The new posting transactions can be called for multiple reservation object types at the same time.

Effects on System Administration

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

- o **ORPO (Seating/Move Planning)**
- or
- o **ORRS (Room Reservations)**

Effects on Customizing

Enter the posting frequency for the reservation object types in Customizing for **Flexible Real Estate Management** in the **Define Reservation Object Type** IMG activity. A posting frequency of 1 month, for example, means that a separate line item is generated for each month in the settlement period entered in the settlement.

See also

For more information, see the **central Release Note** for the business function **Corporate Real Estate** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

Business Function Real Estate Management - Continuous Improvements

RE_GEN_CI_2: Real Estate 2 (New)

o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604)**, you can use the **Real Estate 2** business function. This business function includes new functions for processing parcels, for rental objects, in posting and settlement, as well as for general use of the RE Navigator. For Germany, it also enables input tax correction. And there is a mass change for the current expenses for a cost efficiency analysis. With this business function, a modified extraction for Business Intelligence (BI) is also available.

For more information, see the following Release Notes:

- o Function for Parcels (New, Country-Specific)**
- o Simplified Key for Parcels (New, Country-Specific)**
- o Possession Dates for Rental Objects (New)**
- o Requested Notice Date (New)**
- o Selection by Cond. Type/Purpose in Prd Posting (New)**
- o Enhancements for Service Charge Settlement (New)**
- o Reports for Sales-Based Settlement (New)**
- o Additional Functions of the RE Navigator (New)**
- o Input Tax Correction (New, Country-Specific)**
- o Report on Option Rate Relationships (New)**
- o Mass Change of Current Expenses for CEA (New)**
- o Reports for Cost Efficiency Analysis (New)**
- o Reports for Land Use Management (New, Country-Specific)**
- o Enhancement of BI Extraction (New)**

o See also

For more information, see the SAP Library under Business Function Sets and Business Functions -> Enterprise Business Functions -> Accounting -> **Real Estate -> Real Estate 2.**

RE_GEN_CI_2: Function for Parcels (New)

- o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can store a function in the master data of the parcel. This function - similar to the function for usage objects - makes it possible for you assign additional attributes to parcels. You can define these attributes to suit your own needs. You can define the allowed values for the function in Customizing.

Seen in the context of business function **Real Estate 2**, the **Function** field serves informational purposes only. However, if you are using the business function **Tax and Revenue Management Including Property Tax** (PSCD_TRM_ & PROPERTY_TAX), then you need this field to be able to use processes for property tax in the system.

Note

The function for parcels is country-specific and is intended only for Germany.

- o Effects on System Administration

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

- o Function on Parcel (LM01)

- o Effects on Customizing

To enter the allowed values for the function for parcels, in Customizing for **Flexible Real Estate Management**, choose **Country-Specific Settings -> Germany -> Land Use Management -> Parcel of Land -> Define Function for Parcels**.

- o See also

For more information, see the **central Release Note** for the business function **Real Estate 2** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

RE_GEN_CI_2: Simplified Key for Parcels (New)

o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can use a simplified key for parcels.

If you activate this function, when you enter a parcel, you only need to enter the **Parcel Number**. You do **not** have to make entries in the **Location Key** and **Tract Number** fields.

Note

This function is only relevant if you are using the new property tax functions in Tax and Revenue Management. For more information, see the documentation of business function **Tax and Revenue Management Including Property Tax** (PSCD_TRM_ &_PROPERTY_TAX).

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Do **not** use this function if you are using Land Use Management in accordance with the laws in Germany.

o Effects on Existing Data

This function does **not** affect the processing of existing parcels that have a complete key definition.

o Effects on Customizing

To activate this function, set the **Use Simplified Parcel Number** indicator in Customizing for **Flexible Real Estate Management** under **Country-Specific Settings -> Germany -> Land Use Management -> Central Settings for Land Use Management -> Make General Settings for Land Use Management**.

RE_GEN_CI_2: Possession Dates for Rental Objects (New)

- o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can enter possession dates when you define the term of contracts and contract offers, as well as during object assignment.

Possession dates define a period of time during which the object has been released to be used. The "possession date from" can be before the start of the contract, and the "possession date to" can be after the end of the contract.

Using the **Fixed Amount - Possession Dates** calculation formula, you can also define conditions that begin before the contract start date and end after the contract end date.

Entering possession dates makes it possible to create postings using the cash flow that are before the contract start date or after the contract end date.

- o Effects on Customizing

You activate this function for each contract type in Customizing under **Define Contract Types**.

- o See also

For more information, see the HyperLink: RELN.RE_604_GEN_M central Release Note for the business function Real Estate 2 and the SAP Library under SAP ERP Central Component -> Accounting -> Flexible Real Estate **Management**.

RE_GEN_CI_2: Requested Notice Date (New)

- o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can enter a requested notice date in contracts that is taken into consideration in the real estate search.

In certain circumstances, you need to end the lease before the normal notice period expires, when you are able to find a suitable next tenant. This is the case for notice given at either the contract or object level. Until now, the requested notice date entered in the **Notice request** field was for informational purposes only. This date was not considered in the functions of the real estate search.

Now, if you set the **Consider Request** indicator when creating a notice, the real estate search considers the **Notice request** date. This means that the real estate search considers the affected objects to be available as of this date, and the objects can be used in creating contract offers. If a new tenant is found, and the contract offer is converted to a contract, then the system automatically ends the old contract when the new contract begins (regardless of the notice period). In some cases, giving notice at the contract level affects multiple objects, but a new tenant cannot be found for all of the objects before the end of the notice period. In that case, the notice is converted from contract notice to object notice.

- o See also

For more information, see the HyperLink: RELN.RE_604_GEN_M central Release Note for the business function Real Estate 2 and the SAP Library under SAP ERP Central Component -> Accounting -> **Flexible Real Estate Management**.

RE_GEN_CI_2: Selection by Cond. Type/Purpose in Prd Posting (New)

- o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can also limit periodic posting by condition type and condition purpose. This means that you can choose to post only conditions with a certain condition type (such as basic rent) or a certain condition purpose (such as actual rent).

- o See also

For more information, see the **central Release Note** for the business function **Real Estate 2** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

RE_GEN_CI_2: Enhancements for Service Charge Settlement (New)

- o **Use**

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can use the following additional functions in service charge settlement:

- o **Rounding of Receivable/Credit Amount**
For service charge settlements, in which receivables and credits from advance payments are balanced against each other and posted in one amount, you can specify if and how the amount is rounded.
For rounding, the system uses the rounding rule that you defined in the calculation formula of the advance payment condition. For any rounding differences that arise, the system transfers them according to the distribution formula specified for the advance payment condition.
- o **New Status Monitor for Settlement Periods of Settlement Units**
Based on your selections, the status monitor creates a list of settlement units and their settlement periods. If a settlement was already started for the settlement period, the list also displays the status of the individual settlement steps. The status monitor thereby supplements the program **Current Settlement Periods per SU** (transaction **RESCSESTATUS** which shows the next settlement period to be settled for each settlement unit.
- o **Service Charge Settlement Reports Over Multiple Settlements**
Using these new reports, you can evaluate multiple settlements while displaying them in list form. This can be useful, for instance, if you have separate settlement runs for internal and external service charge settlements. You can access these new reports in the area menu for Flexible Real Estate Management under **Service Charge Settlement -> Information System -> Report for Multiple Settlements** (RESCISMULTI) or **Report for Multiple Settlements - RO Selection** (RESCISMULTIRO).

- o **Effects on System Administration**

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose **Basic Settings -> Activate Subfunctions**:

- o **SCS: Rounding of Receivable Amount (SC02)**

Note

This prerequisite applies solely to the rounding of the receivable/credit amount. You do **not** have to activate any additional subfunctions in order to use the new status monitor and the new reports for multiple settlements.

- o **Effects on Customizing**

- o **Rounding of Receivable/Credit Amount**
The function described is only available for service charge settlements in which receivables and credits from advance payments are balanced against each other and posted in one amount. Therefore, you have to set the **Post Balance** indicator in the definition of the settlement schema. (In Customizing for Flexible Real Estate Management, choose **Service Charge Settlement -> Settlement Process -> Define Settlement Parameters**.)
In the **Flow Type** field, enter the flow type you want to use for account

determination for the transfer of the rounding differences.

You enter the rounding rule for the calculation formula in Customizing for Flexible Real Estate Management under **Conditions and Flows -> Calculation and Distribution Formulas -> Calculation Formulas**.

RE_GEN_CI_2: Reports for Sales-Based Settlement (New)

- o **Use**

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, the reports for sales-based rent settlement have been adjusted to conform with other reports of the information system for **Flexible Real Estate Management**.

You can adapt the reports to suit your requirements. To do so, implement the Business Add-In (BAI) **Info System: ALV Reporting** (BADI_REIS_LIST).

The original, hierarchical display of sales-based settlement is still available.

- o **See also**

For more information, see:

- o The documentation for Business Add-In (BAI)
- o **Info System: ALV Reporting** (BADI_REIS_LIST).
- o The **central Release Note** for business function **Real Estate 2**
- o SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**

RE_GEN_CI_2: Additional Functions in RE Navigator (New)

- o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can use the following new functions in the RE Navigator:

- o Displaying existing registrations for a real estate object
Up to now, registrations, for instance due to necessary adjustments of measurements, were displayed only in the worklist of the RE Navigator. You are now able to display the registrations for an object in the master data dialog.
- o Copying objects using drag and drop
For example: If you select a rental object in the tree view of RE Navigator, and drag it to another land or building, then the system creates a new rental object for the land or building using the selected rental object as a template.

- o See also

For more information, see the **central Release Note** for the business function **Real Estate 2** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

RE_GEN_CI_2: Input Tax Correction (New)

- o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, input tax correction based on German law for sales/purchases tax is available (Germany only).

If the basic factors for an input tax deduction change after the deduction was already made, then German tax law requires that you correct the originally deducted input tax within a set time period. This is regulated by paragraph 15a of German sales tax law. Input tax correction takes place for the first time after the start of actual use of the asset. The input tax is corrected dependent on the change in the option rate. This means that over a time period of up to ten years, the system posts the proportional difference between the actually deducted input tax and the input tax that is really deductible based on the current option rate.

Note

The **input tax correction** function is country-specific and is intended only for Germany.

- o Effects on System Administration

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

- o Input Tax Correction (IT01)
- o Effects on Customizing

In Customizing for Flexible Real Estate Management (RE-FX), make settings in all activities under **Country-Specific Settings -> Germany -> Input Tax Correction**.

- o See also

For more information, see the HyperLink: RELN.RE_604_GEN_M central Release Note for the business function Real Estate 2 and the SAP Library under SAP ERP Central Component -> Accounting -> Flexible **Real Estate Management**.

RE_GEN_CI_2: Report for Option Rate Relationships (New)

o Use

As of **SAP ERP Central Component 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, a report is available for evaluating option rate relationships of real estate objects.

You can use this report to obtain information about the deduction of input tax.

The report shows the change over time of the option rate of a real estate object. You see the absolute value as well as the change of the option rate in comparison to the previous periods. In addition, you can display and highlight the time periods for which no option rate determination was yet performed.

This data is thereby then available for external audits for reports based on the **German Principles of Data Access and Verifiability of Digital Documentation** (GdPdU).

o See also

For more information, see the HyperLink: RELN.RE_604_GEN_M central Release Note for the business function Real Estate 2 and the SAP Library under SAP ERP Central Component -> Accounting -> Flexible Real Estate **Management**.

RE_GEN_CI_2: Mass Change of Current Expenses for CEA (New)

- o **Use**

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, a new transaction is available for making mass changes to current expenses of adjustment measures for cost efficiency analysis.

According to German law, the flat fees for management costs and maintenance costs are adjusted every three years, based on the same percentage by which the price index for the cost of living (as set by the German government) has changed during the time period since the last change.

To help you in processing active adjustment measures for cost efficiency analysis, you can use the new transaction for sets of adjustment measures to make changes of the following types:

- o Periodic changes due to adjustment to the price index
- o Changes due to the length of time the object has been ready for occupancy
- o Terminations (ending validity)

- o **Effects on System Administration**

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

- o **Cost Efficiency Analysis (AJCE)**

The prerequisite for this is that you activated the business function **Real Estate Management (RE_GEN_CI_1)**.

- o **See also**

For more information, see the central Release Note for the business function Real Estate 2 and the SAP Library under SAP ERP Central Component -> Accounting -> Flexible Real **Estate Management**.

Reports for Cost Efficiency Analysis (New)

- o Use

As of **SAP** ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2, the following new reports are available for adjustment measures for cost efficiency analysis:

- o **Measure Overview (REISAJAT)**
- o **Measure Objects/Measurements (REISAJATOBJ)**
- o **Overview of CEA Costs (REISAJATCOSTSCEA)**
- o **Financing Plan of CEA (REISAJATFINPLAN)**
- o **Current Expenses of CEA (REISAJATEXPENSE)**
- o **Prestage Adjustments of CEA (REISAJATFINPLAN)**

You can also use the reports **Measure Overview** and **Measure Objects/Measurements** for adjustment measures that are not based on cost efficiency analysis.

In the report **Overview of CEA Costs**, you can jump directly to one of the detailed reports for a selected adjustment measure.

- o Effects on System Administration

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

- o **Cost Efficiency Analysis (AJCE)**

The prerequisite for this is that you activated the business function **Real Estate Management (RE_GEN_CI_1)**.

- o Effects on Customizing

For more information, see the **central Release Note** for the business function **Real Estate 2** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

Reports for Land Use Management (New)

- o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, the following new reports are available for land use management (Germany only):

- o **Area Analysis for Possession Areas (REISPLPF)**
This report provides an overview of the holdings of equitable owners of parcels viewed as contract areas, possession areas and ownership areas.
- o **Cadastral Classifications (REISPLSL)**
The report shows cadastral classifications for parcels in the holdings of owners and holders of land lease rights.
- o **Land Registers for Parcel (REISPLLR)**
The report lists the owners entered in the land register, with their ownership shares and updated areas of parcels.
It also shows the encumbrances of parcels in section 2 and section 3 of the land register.
- o **Internal Usages of Parcels (REISPLUS)**
For the parcel holdings of owners and holders of land leases, the report breaks down the areas according to internal usages, other usages, and internal development planning.
- o **Objects for Parcels (REISPLOBJ)**
The report lists the objects assigned to parcels, such as, assets, buildings, functional locations.

- o See also

For more information, see the **central Release Note** for the business function **Real Estate 2** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

RE_GEN_CI_2: Enhancement of BI Extraction (New)

o Use

As of **SAP ECC 6.0, Enterprise Extension Financials, Enhancement Package 4 (EA-FIN 604), Business Function Real Estate 2**, you can use enhancements for the extraction of data from Flexible Real Estate Management to Business Intelligence (BI):

- o New DataSources for extracting master data and flow data for the architectural view:
 - Master data of architectural objects (0ARCHOBJECT_ATTR, 0ARCHOBJECT_TEXT)
 - Hierarchy of architectural objects (0ARCHOBJECT_HIER)
 - Architectural function (0ARCHFUN_ATTR, 0ARCHFUNC_TEXT)
 - Texts for attributes of architectural objects (0ARCHRELSHP_TEXT - type of relationship, 0ARCHTYPE_TEXT - architectural object type, 0ARCHUSAGE_TEXT - common usage)
 - Relationship between architecture and usage views (0REFX_11)
Gets the proportion of measurement amounts used in the assignment of a usage object to an architectural object.
 - Measurements for architectural objects (0REFX_12)
- o Additional new DataSources:
 - Differing measurements (0REFX_13)
Gets differing measurements that were defined in the real estate contract (contract measurements).
 - Occupancy (period view) (0REFX_14)
Gets the occupancy of rental objects by period. For the time period specified in the selection criteria, the number of occupied days and the vacancy data (including vacancy reason) for each month is extracted.
 - Assignment of business partners to real estate objects (0REFX_BPOBJASSIGN)
Gets the business partners assigned to a real estate object, including their roles.
 - Deleted real estate objects (0REOBJECT_DEL_ATTR)
Gets all real estate objects that were deleted without being archived. This information can be used to set an indicator accordingly in the master data of these objects in BI.
 - Vacancy reason (0VACREAS_TEXT)
There is already an InfoObject for the vacancy reason of Classic Real Estate Management (0VACREASON) available in BI Content. This InfoObject is not able to accept the vacancy reasons defined in **Flexible Real Estate Management**, if the data type does not agree with the data type used in **Flexible Real Estate Management**. Therefore, there is a new DataSource available that has the correct data type.
- o Enhancement of Extraction of Master Data Attributes for Usage Objects:
 - The following are no longer provided just for the key date of the extraction, but over the entire validity period selected: Occupancy (field OCCUP) and assignment of the business area (GSBER) and profit center (PRCTR), for the objects **Business Entity**, **Building**, **Land**, **Rental Object** and **Real Estate Contract**.

- The following new values exist for the characteristic **Occupancy** (InfoObject 0REOCCUP):
Reserved: This is set if the object is assigned to a contract for which there is a renewal option, or if the rental object is assigned to a contract offer.
Intended for Rent: This is set if the object is assigned to a lease-out contract, but this contract is not yet active.
- The **Vacancy Reason** was added to the master data of rental objects (DataSource 0RENTOBJECT_ATTR).

o **Effects on System Administration**

To use this function, you have to ensure that the following subfunctions are set to active in Customizing for *Flexible Real Estate Management (RE-FX)*. Choose *Basic Settings -> Activate Subfunctions*:

o **BI01 (BI Content Extraction)**

Note

This prerequisite applies solely to enhancements for the extraction of master data attributes of usage objects. The other new DataSources are available without your activating a subapplication.

o **See also**

For more information, see the **central Release Note** for the business function **Corporate Real Estate** and the SAP Library under **SAP ERP Central Component -> Accounting -> Flexible Real Estate Management**.

Travel Management

Business Function Travel Management Enhancements 2

FIN_TRAVEL_2: Business Function Travel Management 2 (New)

Use

As of SAP enhancement package 4 for SAP ECC 6.0, Enterprise Extension Travel Management Extension (EA-TRV 604), you can use the ***Travel Management 2 (FIN_TRAVEL_2)*** business function. This business function encompasses the new and extended functions of the ***Travel Management (FI-TV)*** component described below.

Unless specified otherwise, the new functions are available in the Web Dynpro ABAP-based user interface only.

New Functions in Travel Requests

You can implement the following new functions in travel requests:

o Travel Mediums and Estimated Costs to be Approved

In travel requests you can determine the use of individual means of transportation and types of accommodations, thereby explicitly having their use be approved. Similarly, you can have either the traveler, an administrator, or the system, enter various categories of estimated costs. This approach provides more accurate information and transparency of costs, enabling approving managers to make qualified decisions when approving travel requests.

o Standing Approval of Business Trips

In personnel master data, infotype ***Travel Privileges*** (IT 0017), you can configure a standing approval of business trips for certain trips for individual employees.

o Enhancements for the Public Sector of Germany

Travel requests contain a range of new fields for the public sector of Germany. These include fields for official business (Dienstgeschaeft), different kinds of mileage reimbursement, and car pooling.

o Display of the Travel Request Form in *Travel Expense Manager* (Transaction PR05)

In Travel Expense Manager, administrators can display the form for travel requests that have been created, for example, by travelers in the Web Dynpro ABAP-based user interface. This lets administrators reconcile approved facts with travel expense reimbursement data prior to a trip.

o Enhancement of the *Employee Trip* BOR object (BUS2089)

This Business Object Repository (BOR) object is enhanced with additional methods that enable you to control workflows depending on the means of transportation and types of accommodations, or estimated costs. Using the workflow as an aid, approving managers can make decisions about the relevancy of "significant official interest"

without having to go to a different application (public sector Germany only).

o Constraints

If you use the new travel request functions, travel requests that have been created in the Web Dynpro ABAP-based user interface **cannot** be processed in **Travel Manager** (transaction TRIP).

New Functions in Travel Plans

You can implement the following new functions in travel plans:

o Combined Display of Flights and Rail

You can configure flight searches to have the system also query the available rail connections and display these in a combined display of flight and rail connections. This improves comparisons with regards to travel expenses and travel times. When searching flights, employees can choose to do a comparison. Furthermore, you can define that certain routes require the combined display of flights and rail connections.

The combined display of flights and rail connections is supported in the fare-driven flight availability only and requires a connection to the German rail authority Deutsche Bahn (NVS).

o Enhancements for Flight Reservations

New functions for flight reservations are listed below:

- o Grid for Displaying Fare Availability in Travel Plans
You can configure the fare-driven flight availability to have the system display an airfare grid above the available flight combinations. The columns of the grid show the lowest airfares per provider, and the rows show the lowest fares for nonstop flights, flights with one stopover, and flights with two or more stopovers. In the grid, users can filter the available connections by clicking the column and row headings or by clicking individual cells.
- o Alternative Airports
For the fare-driven flight availability, you can define alternative airports which the system then also displays in flight availability queries. This can be done differently for each destination. For example, you can define Stuttgart as an alternative airport for Frankfurt for flights within Europe; or you can define Berlin as an alternative airport for overseas flights to the United States or the Asia-Pacific region.
- o Consideration of Premium Offers When Assigning a Booking Class and Cabin Class
Some airlines have introduced a new booking class called "premium economy class," which is situated between business class and economy class. You can specify the routes and the employees for which the premium economy class should be available. Employees can then choose economy class or premium economy class when selecting flights.
This does **not** apply to fare-driven flight availability queries.
- o Improved Display of Airfare Rate Terms
After a traveler successfully chooses the flight connections, the **Check Selection** step lists the following rate terms in summarized form:
 - Taxes/fees
 - Last ticketing date (that is, the date by which the ticket needs to be issued)

- Fees for rebooking
- Fees for cancellation

If you use the **Amadeus** reservation system with **Master Pricer**, the flight availability display shows the rate terms per price segment when querying best prices with price groups.

A prerequisite for both cases is that the reservation system provides the rate terms in a format that is readable by the system.

New Functions in Expense Reports

You can implement the following new functions in expense reports:

o **Express Expense Sheet**

This new Web Dynpro ABAP-based application simplifies the entry of expenses for employees (for example, sales representatives) who travel daily and settle their expenses once a month, every week, or in other, user-defined intervals. The application is based on the **Travel Calendar** concept (transaction PR02), but has more features and configuration options, and an improved screen layout for the users.

In particular for countries that have reimbursement rules based on per diems/flat rates, you **cannot** use the Web Dynpro ABAP-based application **Create Expense Report** to collectively enter expenses if an employee returns to the office or home after each trip segment. Now, frequent travelers based in countries that use per diem reimbursements can use **Express Expense Sheets** to enter their trips collectively.

The Express Expense Sheet is designed for frequent users with limited knowledge about the taxation and legal aspects of expense reports: For example, you can have the central entry table show the account assignment fields and the mileage fields so that users do **not** need to go to separate screens. The input help history by user improves the efficiency of field input.

o **Enhancement of Expense Reports for the Public Sector of Germany**

The Web Dynpro ABAP-based Expense Report is enhanced to accommodate the statutory and industry-specific requirements for the public sector in Germany.

The requirements for the public sector in Germany were already met in the back-end transactions, such as **Travel Expense Manager** (transaction PR05). All functions needed by casual users are now also available in the Web Dynpro ABAP-based Expense Report. This includes the public sector requirements at federal and state levels in Germany.

The Web Dynpro ABAP-based Expense Report also allows for linking trips to start work and to return from work with related separation allowance events.

o **Externally Created Bar Codes in Travel Expense Data Entry**

If you use optical archiving for receipts in expense reports, you also can use bar codes that are created externally (for example, bar codes preprinted on receipt envelopes). In this case, the system prompts for the bar codes when you save an expense report, upon which the employees manually record the bar codes printed on their receipts. After the save, the system displays the recorded bar codes in the expense report under the scanned receipts.

You can set the conditions for recording bar codes through the use of a Business Add-In (BAI). The BAI also enables you to assign internally generated bar codes to the reference table of the optical archive so that the assignment to the expense report occurs automatically after the receipts and the bar code are scanned.

Other New Functions in Travel Management

o **Adobe PDF Forms**

A new PDF form (PTRV_EES_FORM) exists for Express Expense Sheets. The new fields have been added to the existing PDF forms for travel requests, travel plans, and travel expense reports/expense reports, and these forms have been optimized.

o **Integration of Event Management**

The following new functions support the integration of Event Management systems with Travel Management systems:

- o The Event Management system is able to use a new service interface to read the personnel master data relevant for managing participants from an SAP system - for example, the personnel master data of employees who belong to a particular cost center.
- o The Event Management interface of Travel Management is enhanced with various new URL parameters. You can use these URL parameters when calling the Web Dynpro ABAP-based applications of Travel Management for creating travel requests, travel plans, and expense reports to transfer travel data from the Event Management system.

Effects on Existing Data

You can continue using existing travel data without restrictions.

Effects on System Administration

The back-end roles SAP_FI_TV_WEB_TRAVELER and SAP_FI_TV_WEB_ASSISTANT have been extended with the authorization for Express Expense Sheets.

Effects on Customizing

If you want to implement the approval of travel mediums and estimated costs for travel mediums in travel requests, perform the following Customizing activities:

- o **Define Travel Mediums and Estimated Costs to Be Approved** (new)
- o **BAdI: Determine and Check Estimated Costs for Travel Mediums** (new)

You customize new fields in travel requests or the fields for public sector Germany in expense reports in Customizing activity **Schema and Single Field Control for Web Dynpro** (enhanced). (This includes defining required entry fields, showing/hiding of fields, and setting default values.)

For the combined display of flights and rail connections, perform the following Customizing activities:

- o **Define Behavior for Price and Availability Queries** (enhanced)
- o **Define Mandatory Combined Flight/Rail Display** (new)
- o **Assign Mandatory Combined Flight/Rail Display** (new)

In the **Display Type Fare-driven Flight Availability** field, you can configure the grid for displaying airfare availability in travel plans; see **Define Behavior for Price**

and Availability Queries (enhanced).

To define alternative airports, perform the following Customizing activities:

- o **Extend Query for Additional Airports** (new)
- o **Assign Additional Airports for Availability Queries** (new)

To assign authorization for premium airfares, perform the following Customizing activities:

- o **Exceptions of Airlines for Determining the Cabin Class** (enhanced)
- o **BAdI: Assign Premium Authorization via Travel Profile** (new)

To process bar codes, implement the Business Add-In **BAdI: Processing of Bar Codes** (new).

For the new service interface, you can use the Business Add-In **BAdI: Mapping for TravelPlanningArrangementERPEmployeeByElements** (new) of enhancement spot PTRM_SE_PROXY.

See also

For more information, see SAP Library at Business Function Sets and Business Functions -> Enterprise BusinessFunctions -> Accounting -> Travel Management **2**.

Business Function Travel Management, Third-Party Travel Planning

FIN_TRAVEL_PLANNING_EXTERNAL: BF Third-Party Travel Planning (New)

Use

As of SAP enhancement package 4 for SAP ECC 6.0 (EA-HRGxx 604), Enterprise Extension Travel Management Extension (EA-TRV 604), the business function **Travel Management, Third-Party Travel Planning** (FIN_TRAVEL_PLANNING_EXTERNAL) is available. With this business function, you can use a third-party travel planning tool for booking travel services instead of SAP Travel Planning.

Third-party travel planning is available in the Web Dynpro ABAP-based user interface only. You can run the user interface in the following environments:

- o SAP NetWeaver Portal
- o SAP NetWeaver Business Client
- o Web browser

Third-party travel planning is fully integrated in SAP Travel Management. You can book services in a third-party travel planning tool on the basis of the data provided by an SAP travel request, and you can create an SAP expense report on the basis of booking information provided by a third-party travel planning tool.

This business function encompasses the following new and extended functions:

- o Redirection of navigation in the Web Dynpro ABAP-based user interface and data transfer
You need to implement the new **BAdI: Define Exit to Third-Party Travel Planning** to integrate a third-party travel planning tool in SAP Travel Management. The main purpose of the BAdI is to redirect all navigational links that point to SAP Travel Planning to a third-party travel planning tool. The BAdI assembles the URL to the third-party travel planning tool using URL parameters for data transfer.
The example implementation PTRM_EXT_TP_GETTHERE shows how to integrate the *GetThere* online booking system. You can copy the example implementation and adapt it to your requirements. For more information, see **BAdI: Define Exit to Third-Party Travel Planning**.
- o Replication of SAP Travel Management master data to a third-party travel planning tool
You can use the enterprise service **Travel Planning Arrangement Out**, service operation **TravelPlanningArrangementEmployeeNotification_Out**, to supply third-party travel service providers with the Travel Planning Arrangement data from your SAP Travel Management system. Using the **BAdI: Mapping for TravelPlanningArrangementEmployeeNotification** you can control the mapping of the outbound interface.
This business function provides the example implementation PTRM_SE_TPAEE_GETTHERE, which enhances the master data mapping for compliance with *GetThere*-specific requirements. You can copy the example implementation and adapt it to your requirements.
For more information about this enterprise service, see SAP Library for SAP ERP on SAP Help Portal under <http://help.sap.com> -> **SOA** -> **Enterprise Services for SAP ERP Enhancement Package 4 for SAP ERP 6.0** -> **Travel Management** -> **Travel Planning Arrangement Out**.

- o New SAP NetWeaver Portal content
SAP NetWeaver Portal contains a new page and a new iView where a third-party travel planning tool can be started. The ESS role is extended accordingly.
- o Single Sign-On availability
In SAP NetWeaver Portal, you can use the Single Sign-On function to automatically log on SAP Travel Management users to a third-party travel planning tool.
Single Sign-On allows users to authenticate themselves once to SAP NetWeaver Portal, and then log on to all of those systems that operate in the Single Sign-On environment without further intervention.
To use Single Sign-On, you have to provide the public certificate (SAPLogonTicketKeypair-cert.pse) of your SAP NetWeaver Portal to the third-party travel planning tool.

For the online booking system *GetThere*, this business function provides the following features:

- o An example implementation of the **BAdI: Define Exit to Third-Party Travel Planning**, which shows you how to integrate the *GetThere* online booking system
You can copy the example implementation and adapt it to your requirements
- o An example implementation of the **BAdI: Mapping for TravelPlanningArrangementEmployeeNotification**, which enhances the master data mapping complying with *GetThere*-specific requirements
You can copy the example implementation and adapt it to your requirements.
- o A file that provides the mapping in SAP NetWeaver Process Integration (PI) for enterprise service **Travel Planning Arrangement Out** to the corresponding *GetThere* Traveler Profile Synchronization WebService

Effects on Existing Data

You can continue using your existing travel data without restrictions.

Effects on System Administration

The back-end roles SAP_FI_TV_WEB_TRAVELER and SAP_FI_TV_WEB_ASSISTANT have been extended with the authorization for third-party travel planning.

Effects on Customizing

To use third-party travel planning you have to implement the **BAdI: Define Exit to Third-Party Travel Planning**.

To replicate SAP Travel Management master data to a third-party travel planning tool, you can use the service operation

TravelPlanningArrangementEmployeeNotification_Out. You can use the **BAdI: Mapping for TravelPlanningArrangementEmployeeNotification** to control the mapping of the outbound interface.

This business function provides the following additional Customizing settings in the ESS Homepage Framework:

- o New resource object key
EMPLOYEE_TRAVEL_PLANNING_EXTERNAL_SRV_12
This key is defined in Customizing activity **Define Resources**. Its URL points to the PCD page of the new iView in SAP NetWeaver Portal.
- o New service key EMPLOYEE_TRAVEL_PLANNING_EXTERNAL_12

This key is defined in Customizing activity **Define Services**. It defines a service for third-party travel planning including a service link, a service type, and a service description.

- o New service assignment to the travel planning subarea of the area page ***Travel and Expenses*** in SAP NetWeaver Portal
The new service key EMPLOYEE_TRAVEL_PLANNING_EXTERNAL_12 is assigned in Customizing activity **Assign Services to Subareas**.

See also

SAP Library for SAP ERP on SAP Help Portal under <http://help.sap.com/erp> -> ***SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> Business Functions (SAP Enhancement Package 5 for SAP ERP 6.0) -> Business Functions in SAP ERP -> Enterprise Business Functions -> Accounting -> Travel Management, Third-Party Travel Planning***

Quality Management

Business Function Quality Management: Enhancements in Quality Notifications

OPS_QM_NOTIFICATION: QM: Enhanced Functions for Notifications (New)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604)**, the OPS_QM_NOTIFICATION business function is available. This business function enables you to use the enhancements in the **Quality Notifications** (QM-QN) component. These enhancements are only applicable for notification types in Quality Management.

For more information, see the following release information:

- o **Assigned Objects at Level of Notification Item**
- o **Sending Notifications with Attachments by E-Mail**
- o **Partner Selection in Lists**
- o **Single-Level Lists for Quality Notifications**

See also

For more information, see the SAP standard library under **Business Function Sets and Business Functions -> Enterprise Business Functions -> Logistics -> Quality Management**.

OPS_QM_NOTIFICATION: Assigned Objects at Item Level (Enhanced)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function OPS_QM_NOTIFICATION**, you can assign multiple objects to a notification at item level. This enables you better document problems or errors. It also reduces the amount of processing required, and reduces the number of notifications.

In Customizing, you can assign objects for different object categories as reference information in a notification item. The following object categories are already configured and are provided in the standard system:

- o Batch
- o Serial number
- o Inspection lot
- o Delivery item
- o Order (production order and process order)

Effects on Existing Data

Existing notifications with object assignments at the header level are not affected by the new functions.

Effects on Customizing

The standard notification types, F1-F3, Q1-Q3, and QS already contain the standard object categories stated above. You can therefore use them directly in the notification applications.

In addition to the standard object categories, you can define further object categories under: **Quality Management -> Quality Notifications -> Notification Processing -> Assigned Objects:**

- o You can define object types in addition to those already provided in the standard system by choosing, **Define Object Categories**.
- o Implementations for the standard object categories described above are provided in the **BADI_QNAO_OBJCAT** BAdI. You use these to implement screens and functions for each object category. You can also create you own additional implementations for new object categories.
- o By choosing **Assign Object Categories to a Notification Type** you can specify which object categories are permitted for each notification type.

See also

For more information, see the SAP Library under **Assigned Objects**.

OPS_QM_NOTIFICATION: Sending Notifications with Attachments (Enhanced)

Use

As of SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function OPS_QM_NOTIFICATION, you can use a new follow-up function to send a quality notification with attachments as an e-mail.

E-mails are sent using the central SMTP function (Single Mail Transfer Protocol) for sending e-mails from SAP applications.

Effects on Existing Data

As described above, tasks are generated when a notification is sent.

Effects on Customizing

The following were enhanced under **Quality Management -> Quality Notifications -> Notification Processing -> Additional Notification Functions:**

- o New follow-up actions for tasks
The new follow-on action QMMAIL can be found under **Define Follow-Up Actions for Tasks**. This uses function module QM06EA_SEND_PDF_PAPER_STEP3 (after processing, synchronized processing).
- o Adjusted action box
An activity for sending a notification with the following properties is entered for each notification type under **Define Functions for the Action Box**:
 - Executed function module when calling the activity:
QM06EA_FM_TASK_SEND_PDF_PAPER
 - Function module when saving: QM06EA_SEND_PDF_PAPER_STEP2
 - Use in "Every View (Create, Change)" and "Notification"
 - Documentation as task
 - Code group and code for task that is to be created
The new follow-up action QMMAIL must be assigned to the code in Customizing with function module QM06EA_SEND_PDF_PAPER_STEP3.

The function for sending e-mails is set up in the standard Customizing for notification types F1-F3 and Q1-Q3. If you want to use the function for your own notification types, you can copy the settings for the **Send E-Mail with Attachments** activity from the specified notification types.

See also

For more information, see the SAP Library under **Standard Follow-Up Activities (Tasks)**.

OPS_QM_NOTIFICATION: Partner Selection in Lists (Enhanced)

Use

As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604), Business Function OPS_QM_NOTIFICATION**, the partner selection in lists for quality notifications has been enhanced.

A new area on the selection screens is provided where you can specify up to eight different roles and partners. You can link using **AND** or **OR**.

It makes sense to use this function if you want to select notifications for different partner roles and a list of parameters. For example, if you want to evaluate all complaints for a customer that were processed by different users.

Effects on Existing Data

Existing data is not affected.

OPS_QM_NOTIFICATION: Single-Level Lists for Quality Notifications (Enhanced)

Use

*As of **SAP ECC 6.0, Enterprise Extension PLM, Enhancement Package 4 (EA-PLM 604)**, Business Function **OPS_QM_NOTIFICATION**, single-level lists for quality notifications have been enhanced. You can include additional fields in the list display (for example, descriptions for suppliers or customers).*

Business Add-In (BAdI) BADI_EAM_SINGLELEVEL_LIST is provided to add fields to the lists.

To activate the function, you must adjust the relevant data structure and implement the corresponding BAdI methods. An example implementation is provided.

Effects on Existing Data

Existing data is not affected.

Effects on Customizing

The BAdI is provided as a new Customizing activity under: Quality Management -> Environment -> Tools -> Business Add-Ins -> Quality Notification -> Business Add-In for Enhancing Single-Level Lists.