Release Notes

for

Corporate Services

SAP enhancement package 5 for SAP ERP 6.0



Copyright

© 2010 SAP AG. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Excel, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, System z9, z10, z9, iSeries, pSeries, xSeries, zSeries, eServer, z/VM, z/OS, i5/OS, S/390, OS/390, OS/400, AS/400, S/390 Parallel Enterprise Server, PowerVM, Power Architecture, POWER6+, POWER6, POWER5+, POWER5, POWER, OpenPower, PowerPC, BatchPipes, BladeCenter, System Storage, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, Parallel Sysplex, MVS/ESA, AIX, Intelligent Miner, WebSphere, Netfinity, Tivoli and Informix are trademarks or registered trademarks of IBM Corporation.

Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.

Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Oracle is a registered trademark of Oracle Corporation.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.

HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Java is a registered trademark of Sun Microsystems, Inc.

JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.

SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, Clear Enterprise, SAP BusinessObjects Explorer and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP France in the United States and in other countries.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

These materials are subject to change without notice. These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

Real Estate Management 6
Business Function RE-FX, Localization for Czech Rep., Hungary, Netherlands 6
FIN_LOC_CI_6: Business Function RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia (New) 6
FIN_LOC_CI_6: Property Tax Calculation for the Czech Republic (New) 7
FIN_LOC_CI_6: Localization Topics for Hungary (New) 9
FIN_LOC_CI_6: Rent Adjustment and Subsidizable Rent Calculation for the Netherlands (New) 12
FIN_LOC_CI_6: Property Tax Calculation for Slovakia (New) 15
Business Function RE-FX, Parallel Adjustment of Conditions for the Netherlands 17
FIN_LOC_CI_21: Business Function RE-FX, Parallel Adjustment of Conditions for the Netherlands (New) 17
Business Function RE-FX, Localization of Cadastral Master Data for Italy 18
FIN_LOC_CI_22: Business Function RE-FX, Localization of Cadastral Master Data for Italy (New) 18
Travel Management 19
Business Function Travel Management 3 19
FIN_TRAVEL_3: BF Travel Management 3 (New) 19
Business Function FI-TV, Travel Management Loc. for Poland, Russia, Ukraine 24
FIN_TRAVEL_LOC_1: Business Function FI-TV, Travel Management Loc. for Poland, Russia, Ukraine (New) 24
FIN_TRAVEL_LOC_1: Travel Management for Poland (New) 25
FIN_TRAVEL_LOC_1: Travel Management for Russia (New) 27
FIN_TRAVEL_LOC_1: Travel Management for Ukraine (New) 28
Enterprise Asset Management 30
Business Function EAM, Linear Asset Management 1 30
LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New) 30
LOG_EAM_LINEAR_1: Linear Data in Master Data (New) 32
LOG_EAM_LINEAR_1: Linear Data in Maintenance Documents (New) 35
LOG_EAM_LINEAR_1: Linear Data in Reports (SAP_APPL) (New) 37
LOG_EAM_LINEAR_1: Linear Data in Reports (EA-APPL) (New) 40
LOG_EAM_LINEAR_1: Enterprise Services for Linear Data, Process Component Product Data Maintenance (Enhanced) 42
LOG_EAM_LINEAR_1: Enterprise Services for Linear Data, Process Component Installed Base Data Processing (Enhanced) 43
Business Function Enterprise Asset Management Part 4 44
LOG_EAM_CI_4: Business Function Enterprise Asset Management Part 4 (New) 44
LOG_EAM_CI_4: Inspection Rounds (Enhanced) 45
Enhancements to Maintenance Plan Scheduling (New) 46
LOG_EAM_CI_4: BAPIs for Installation and Removal of Non-Serialized BOM Items (New) 47
LOG_EAM_CI_4: Maintenance Cost Budgeting (New) 48

Enhancements to Maintenance Plan Scheduling (New) 49
Enhancements to Measurement Documents and Measuring Points (New) 50
LOG_EAM_CI_4: Change Documents for Maintenance Plan Scheduling (New) 51
Business Function Operation Account Assignment 52
LOG_EAM_OLC: Business Function Operation Account Assignment (New) 52
LOG_EAM_OLC: Maintenance/Service Order: Order Operation as Account Assignment Object (New) 53
Business Function Refurbishment and Subcontracting Improvements 57
LOG_EAM_ROTSUB_2: Refurbishment and Subcontracting 2 57
LOG_EAM_ROTSUB_2: Refurbishment and Subcontracting Integration (New) 58
LOG_EAM_ROTSUB_2: Improvements to Conversion of Planned Order (New) 61
LOG_EAM_ROTSUB_2: Stock Determination in Maintenance Order (New) 62
Business Function EAM: Shift Factors for Multiple Counter Plans 63
LOG_EAM_SHIFTFACTORS: Shift Factors for Multiple Counter Plans (New) 63
Business Function Simplified Management of EAM Functions 64
LOG_EAM_SIMPLICITY: Business Function Simplified Management of EAM Functions (New) 64
LOG_EAM_SIMPLICITY: Business Package for Maintenance Worker (New) 65
LOG_EAM_SIMPLICITY: Business Package for Generic EAM Functions (New) 67
Business Function Takeover/Handover of Technical Objects Cont. Improvements 69
LOG_EAM_TOHO_2: Business Function Takeover/Handover Improvements (New) 69
LOG_EAM_TOHO_2: Update of Non-BOM Header Equipment (New) 71
LOG_EAM_TOHO_2: Material Number Update (New) 72
LOG_EAM_TOHO_2: Business Function Takeover/Handover Improvements (New) 73
LOG_EAM_TOHO_2: Additional Customer Checks (New) 74
LOG_EAM_TOHO_2: Status Management Improvements (New) 75
LOG_EAM_TOHO_2: Enhancements for Measuring Points (New) 76
LOG_EAM_TOHO_2: Specify Technical Objects Using Multiple Serial Numbers (New) 77
LOG_EAM_TOHO_2: Improvements in BAPI Message Handling 78
Business Function EAM: Time Zone Support (Part 2) 79
LOG_EAM_TZS_2: Business Function EAM: Time Zone Support (Enhanced) 79
Business Function WCM: Stepwise Tagging and Usage of Work Permits 80
LOG_EAM_WCM_1: Stepwise Tagging and Work Permit Management (New) 80
EH&S Compliance Management 82
EH&S Continuous Improvement 82
LOG_EHS_CI_2: Business Function EH&S Continuous Improvement (New) 82
Occupational Health (New) 83
Product Safety (New) 84
Substance Volume Tracking (New) 88
Quality Management 89
Business Function Quality Management: Extensions in FMEA and Q-Notifications 89
OPS_QM_EXTENSION_2: Quality Management: Enhancements in FMEA and QM Notifications (Enhanced) 89
OPS_QM_EXTENSION_2: Integration of FMEA and QM Notifications (Enhanced) 90

OPS_QM_EXTENSION_2: User-Specific Settings for FMEA Type (New) 91
OPS_QM_EXTENSION_2: Digital Signature in FMEA (New) 92
OPS_QM_EXTENSION_2: Processing of System FMEAs (Enhanced) 93
OPS_QM_EXTENSION_2: Other Functions in the FMEA (Enhanced) 95
OPS_QM_EXTENSION_2: Integration of Quality Notification Processing in SAP SNC (New) 96
OPS_QM_EXTENSION_2: Print Notification Without Saving (New) 99
OPS_QM_EXTENSION_2: Display Related Notifications (Enhanced) 100
Business Function Quality Management: Integration of Inspection Plans. 101
OPS_QM_PLAN_INTEGRAT: Quality Management: Inspection Plan Integration (New) 101
OPS_QM_PLAN_INTEGRAT: Integration of Inspection Plans in EH&S (New) 102
OPS_QM_PLAN_INTEGRAT: Improved Integration of QM with Variant Configuration (Enhanced) 103
General 104
Business Function REA, Environmental Product Reporting and Lean Data Entry 104
J_7L_REA_SUSTAIN: REA, Environmental Product Reporting and Lean Data 104
Entry (New) 104
J_7L_REA_SUSTAIN: Packaging Sustainability Reporting (New) 105
J_7L_REA_SUSTAIN: Lean Data Entry (New) 107
J_7L_REA_SUSTAIN: Legal Enhancements for North America (New) 108
Additional Release Notes 109
Dangerous Goods Management (Changed) 109
Global Label Management (Changed) 110
Structure changes in Customizing for EH&S 111
Substance Volume Tracking (Changed) 112
Waste Management (Changed) 115

Real Estate Management

Business Function RE-FX, Localization for Czech Rep., Hungary, Netherlands

FIN_LOC_CI_6: Business Function RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), the business function *RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia* is available. You can use this business function to meet business requirements in the *Flexible Real Estate Management* (RE-FX) component for the Czech Republic, Hungary, the Netherlands, and Slovakia.

For more information, see the following release notes:

- **Property Tax Calculation (Czech Republic)**
- **Localization Topics for Hungary**
- **Rent Adjustment and Subsidizable Rent Calculation (Netherlands)**
- **Property Tax Calculation (Slovakia)**

Note:

To use this business function, you have to activate the *Financials Extension* (EA-FIN) Enterprise Extension.

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> *SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> Business Functions -> Business Functions in SAP ERP -> Enterprise Business Functions -> Accounting -> Country-Specific Business Functions -> RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia.*

FIN_LOC_CI_6: Property Tax Calculation for the Czech Republic (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function *RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia* (FIN_LOC_CI_6), you can apply new country-specific functions in addition to the standard *Flexible Real Estate Management* (RE-FX) solution. The new function enables you to administrate the property tax for all your real estate objects, and to fulfill the legal requirements for property tax payment in the Czech Republic on a yearly basis.

Property tax consists of the land tax and the building tax. The real estate objects that are subject to property tax are represented as land, building, or rental object in the system.

The new solution offers you the following functions:

- You can download a large amount of data from the Web site of the Ministry of Finance with a special report that contain data for the necessary settings for the property tax calculation.
- A new screen *(Property Tax (Czech Rep.))* enables you to enter all the relevant parameters of the real estate objects for every calendar year. It includes your buildings, lands, and rental objects.
- All your real estate objects are listed in a *Property Tax Cockpit* which calculates the property tax (land tax, building tax separately, and it sums the two amounts if required). The program enables you to generate your tax return in an XML format, and it offers you to download a control program from the Web site of the Ministry of Finance, which checks the correctness of your tax return.
- The calculated property tax is accrued and posted for every month with a new program.
- You can post the liable property tax values in four installments depending on the property tax amount with the same program.
- An additional program enables you to close the current fiscal year, or re-open the previous year and generate a correction- or supplementary tax return.
  If the change affects the property tax amount, the system automatically recalculates it and corrects the postings on the following month accordingly.

Effects on Existing Data

To define the parameters for the calculation of property tax, the existing Customizing has been enhanced by new entries in Customizing for *Flexible Real Estate Management* (RE-FX) under *Country-Specific Settings -> Czech Republic*.

The area menu has been enhanced by new entries under *Flexible Real Estate Management -> Country Specifics -> Czech Republic.*

You maintain the required data for the property tax calculation in the master data of land, building, and rental object, on the *Property Tax (Czech Rep.)* tab page.

Effects on Customizing

You make the Customizing settings for this function in Customizing for *Flexible Real Estate Management* (RE-FX) under *Country-Specific Settings -> Czech Republic:*

- **Define Property Categories and Property Types**
- **Define Settings for Property Tax Posting**

- **Assign Area Types to Measurement Types**
- **Define Coefficients for Property Tax**
- **Define Tax Offices**
- **Define Counties**

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> *SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP ERP Central Component -> Financials -> Flexible Real Estate Management (RE-FX) -> Country-Specifics -> Czech Republic*.

FIN_LOC_CI_6: Localization Topics for Hungary (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function *RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia* (FIN_LOC_CI_6), you can apply new country-specific functions in addition to the standard *Flexible Real Estate Management* (RE-FX) solution. The new functions enable you in Hungary to fulfill the legal requirements for:

- Creation of **correction invoices** and **reversal invoices**
- Determination of the fulfillment date in posting and invoicing
- Copy numbering of invoices
- Processing of one-time business transactions
- Processing of service charge settlement

When you need to make a correction on an invoice, or you need to reverse it, you are required to create a correction invoice or a reversal invoice. The correction invoice contains the withdrawn original amount, the corrected amount, and a reference to the original invoice item which was corrected. The reversal invoice contains the reversed amount and a reference to the original invoice. A new transaction enables you to determine if you want to create a correction invoice or a reversal invoice for the financial documents created via periodic postings. The print form template of these invoices in accordance with the Hungarian requirements for correction and reversal invoices. You can also create a correction/reversal invoice for a correction invoice. The correction/reversal invoicing function is extensible for further countries

For Hungarian companies, the fulfillment date of financial documents created with periodic postings depends on the continuity of the service of your individual real estate contract conditions. In case of continuous services, the fulfillment date is the same as the payment due date, and in case of noncontinuous services, it can be different. In Hungary, the business practice is to use the document date entered at the time of the periodic posting.

The system determines the fulfillment date at the time of the periodic posting and stores it as the tax reporting date (and historically, as the document date) of the document header. It also splits the financial documents if multiple fulfillment dates were determined. The fulfillment date on the header data of an invoice is read from the tax reporting date of the financial documents. You can determine the fulfillment date for the correction invoices and reversal invoices as well.

When you print your original, correction, and reversal invoices for Hungarian companies, the system identifies each copy with a unique consecutive number as defined by law. You can apply the copy numbering for non-preprinted invoices for printing with separate copies or with carbon copies.

You can process and invoice one-time business transactions to your business partners in the system by creating and posting one-time conditions for the relevant contract. You can then invoice the one-time business transactions and if required, you can make a correction on the invoice, or you can reverse it and create a correction or a reversal invoice. Users who are not authorized to make changes in a contract can also create new one-time conditions or change existing ones with the new programs.

During the service charge settlement process, the system first transfers the third party-related service charge costs to a stock account and then to a revenue account. You can use this function to meet legal and business requirements that specify the entry of third party-related service charge costs on the balance sheet, in the *Stocks* row.

Effects on Customizing

You make the Customizing settings for copy numbering in Customizing for *Flexible Real Estate Management* (RE-FX) under *Correspondence -> PDF-Based Forms ->:*

- **Basic Settings** to enter the supported language
- *Forms->* **Form Builder for Smart Forms and Text Modules**
- *Forms ->***Define Forms**
- *Correspondence Activities and Applications ->* **Define Correspondence Activities**
- *Correspondence Activities and Applications ->* **Define Correspondence Applications and Correspondence Activities**

You make the following Customizing settings to be able to use the fulfillment date:

- In Customizing for *Financial Accounting (New)* (FI) under *Financial Accounting Global Settings (New) ->*
  - *Global Parameters for Company Code ->* **Enter Global Parameters**
  - *Tax on Sales/Purchases-> Calculation ->* **Assign Company Code to Document Date for Tax Determination**
  - *Tax on Sales/Purchases -> Basic Settings ->* **Define and Check Tax Reporting Date**
- In Customizing for *Flexible Real Estate Management* (RE-FX) under
  - *Conditions and Flows -> Flow Types->* **Define Flow Types**
  - *Country-Specific Settings ->Hungary ->* **Assign Service Continuity to Flow Types**

You make the following Customizing settings to be able to create correction and reversal invoices:

- In Customizing for *Flexible Real Estate Management* (RE-FX) under
  - *Country-Specific Settings ->* **Specify Countries for Correction/Reversal Invoices**
  - *Conditions and Flows -> Reason for Change ->* **Define Reason for Change**
  - *Correspondence -> PDF-Based Forms ->***Basic Settings**
- In Customizing for *Financial Accounting (New)* (FI) under *General Ledger Accounting (New) -> Business Transactions -> Adjustment Posting/Reversal ->* **Define Reasons for Reversal**

You make the following Customizing settings to be able to process one-time business transactions:

- In Customizing for *Flexible Real Estate Management* (RE-FX) under *Conditions and Flows -> Condition Types and Condition Groups ->* **Define Condition Purpose**

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** *-> SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP*

ERP Central Component -> Financials -> Flexible Real Estate Management (RE-FX) -> Country-Specifics -> Hungary.

FIN_LOC_CI_6: Rent Adjustment and Subsidizable Rent Calculation for the Netherlands (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA_APPL 605), business function *RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia* (FIN_LOC_CI_6), social housing companies in the Netherlands can apply new country-specific functions in addition to the standard *Flexible Real Estate Management* (RE-FX) solution. Residential and commercial companies can use the standard RE-FX function without the need of any additional country-specific functions.

The new localization for the social housing sector enables the use of the following additional country-specific functions to the standard:

- Flexible maintenance of fixture/fitting points
- Calculation and adjustment of the average in rent adjustments according to the Dutch regulations (Huurbeleid)
- Automatic calculation of **subsidizable rent** (Huurtoeslag)
- Reporting of the subsidizable rent

Maintenance of Fixture/Fitting Points

Companies in the Netherlands calculate the rent adjustment on the basis of representative list of rents for rental objects that are measured with points. The points are measurement units that are calculated for each rental object on the basis of the predefined fixture/fitting characteristics.

This solution enables you a more flexible definition of the following:

- Fixture/fitting characteristics, permitting decimal values in points
- Common fixtures/fittings for more than one rental object
- Individual rounding rules per characteristic

It also provides the automatic calculation of the total number of points per rental object.

Calculation of the Average of Rent Adjustment

Social housing companies need to have an overview of all their rent adjustments as well as the average of these rent adjustments. The average of rent adjustment cannot exceed the maximum limit that is defined and regulated by the Dutch authorities. A special report shows all the rent adjustments of the company, regardless of the adjustment procedure and allows you to correct the individual rent adjustments either in absolute value or in percentage manually to keep the average below the rent adjustment limit as defined by law.

The function of this report is to handle the rent adjustments for a high amount of tenants. This can also optionally calculate the subsidizable rent.

Automatic Calculation of Subsidizable Rent

Tenants of social housing companies with low income have the possibility to receive a subsidy for their rental costs. This subsidy includes the basic rent and the service charges up to certain limits of certain subsidizable service charge categories as defined by the Dutch authorities.

The new localization enables the following functions for the social housing companies:

- Customizing of subsidy categories with their limits
- Specification of the subsidizable condition types

- Automatic calculation of subsidizable rents in the contracts
- Recalculation of subsidizable rents in case of changes in the conditions

Reporting of Subsidizable Rent

Social housing companies are required to report the amount of subsidizable rents of all their tenants periodically to the tax authorities. A special report presents the subsidizable rent per contract and business partner, identified by their BSN numbers.

Effects on Existing Data

To define the parameters for the calculation of rent adjustment and subsidizable rent, the existing Customizing has been enhanced by new entries in Customizing for *Flexible Real Estate Management* (RE-FX) under *Country-Specific Settings -> Netherlands -> Rent Adjustment/Subsidizable Rent*.

The area menu has been enhanced by the *Calculate Average of Rent Adjustment* and *Subsidizable Rent* entries.

You maintain the factor of fixtures/fittings parameters in the rental object master data on the *Fixtures/Fittings* tab page, on the *Enhancements* subscreen.

You create a statistical condition in the contract and the amount of subsidizabe rent is calculated and displayed on the *Conditions* tab page, *Conditions* subscreen.

Effects on Customizing

You make the Customizing settings for this function in Customizing for *Flexible Real Estate Management* (RE-FX) under *Country-Specific Settings -> Netherlands -> Rent Adjustment/Subsidizable Rent:*

- **Define Fixtures and Fittings Characteristics**
- **Define Special Rounding Rules for Categories** (available as of SAP enhancement package 5 SP06)
- **Define Subsidy Categories**
- **Define Subsidizable Condition Types**
- **Define Identification Types for Subsidizable Tenants**

You additionally need to make the following Customizing settings for the rent adjustment calculation:

- In Customizing for *SAP NetWeaver* under -> *General Settings* -> **Check Units of Measurement**
- In Customizing for *Flexible Real Estate Management* (RE-FX) under:
  - *Master Data -> Basic Settings -> Measurements* -> **Define Measurement Types**
  - *Adjustment of Conditions -> Representative List of Rents* -> **Define Representative List of Rents**
  - *Adjustment of Conditions -> Representative List of Rents* -> **Specify Basic Values for Representative List of Rents**
  - *Adjustment of Conditions -> Adjustment Rules - Cross-Method* -> **Define Adjustment Parameters (Capping Provisions) Dependent on Term**

You additionally need to make the following settings for the subsidizable rent

calculation in Customizing for *Flexible Real Estate Management* (RE-FX) under:

- *Business Partner -> General Settings for Business Partner -> Business Partner -> Basic Settings -> Identification Numbers ->*
  - **Define Identification Categories**
  - **Define Identification Types**
- *Conditions and Flows ->*
  - *Calculation and Distribution Formulas ->* **Calculation Formulas**
  - *Condition Types and Condition Groups ->* **Define Condition Types**
  - *Flow Types ->* **Define Flow Types**
  - *Flow Types ->* **Assign Flow Type to Condition Type**
  - *Condition Types and Condition Groups ->* **Define Condition Purpose**
  - *Condition Types and Condition Groups -> Condition Groups ->* **Define Condition Groups and Assign Condition Types**
  - *Condition Types and Condition Groups -> Condition Groups ->* **Assign Condition Group to Contract per Contract Type**

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** *-> SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP ERP Central Component -> Financials -> Flexible Real Estate Management (RE-FX) -> Country-Specifics -> Netherlands.*

FIN_LOC_CI_6: Property Tax Calculation for Slovakia (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function *RE-FX, Loc. for Czech Rep., Hungary, Netherlands, Slovakia* (FIN_LOC_CI_6), you can apply new country-specific functions in addition to the standard *Flexible Real Estate Management* (RE-FX) solution. The new function enables you to administrate the property tax for all your real estate objects, and to fulfill the legal requirements for property tax payment in Slovakia.

Property tax consists of the land tax, building tax, and apartment tax. The real estate objects that are subject to property tax are represented as land, building, or rental object in the system.

The new solution offers you the following functions:

- A new screen *(Property Tax (Slovakia))* enables you to enter all the relevant parameters of the real estate objects for every calendar year. It includes your buildings, lands, and rental objects.
- All your real estate objects are listed in a *Property Tax Cockpit* which calculates the property tax. The program enables you to print your tax return.
- The calculated property tax (costs and liabilities) is posted with a new program on a regular basis in accordance with the local municipal regulations.
- An additional program enables you to close the current fiscal year, or re-open the previous year and generate a correction- or supplementary tax return.
  If the change affects the property tax amount, the system automatically recalculates it and corrects the postings on the following month accordingly.

Effects on Existing Data

To define the parameters for the calculation of property tax, the existing Customizing has been enhanced by new entries in Customizing for *Flexible Real Estate Management* (RE-FX) under *Country-Specific Settings -> Slovakia ->Property Tax*.

The area menu has been enhanced by new entries under *Flexible Real Estate Management -> Country Specifics -> Slovakia -> Property Tax*.

You maintain the required data for the property tax calculation in the master data of land, building, and rental object, on the *Property Tax (Slovakia)* tab page.

Effects on Customizing

You make the Customizing settings for this function in Customizing for *Flexible Real Estate Management* (RE-FX) under *Country-Specific Settings -> Slovakia -> Property Tax*:

- **Enter Taxpayer Data**
- **Assign Property Types to Real Estate Object Types**
- **Define Municipalities and Cadastral Districts**
- **Define Technical Settings for Tax Return**
- **Define Posting Period Control**
- **Define Property Tax Posting Data**
- **Define Fiscal Year**

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> *SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP ERP Central Component -> Financials -> Flexible Real Estate Management (RE-FX) -> Country-Specifics -> Slovakia.*

Business Function RE-FX, Parallel Adjustment of Conditions for the Netherlands

FIN_LOC_CI_21: Business Function RE-FX, Parallel Adjustment of Conditions for the Netherlands (New)

Use

As of SAP enhancement package 5 SP07 for SAP ERP 6.0 (EA-APPL 605), the business function *RE-FX, Parallel Adjustment of Conditions for the Netherlands* is available. You can use this business function to meet business requirements in the *Flexible Real Estate Management* (RE-FX) component for the Netherlands.

You can use new functions that enable you to meet the requirements as follows:

- You can create parallel adjustment runs to adjust the conditions of a wide range of contracts and the rental objects simultaneously with the *Create Parallel Adjustment Runs* transaction.
- You can display, activate, or reverse the adjustment runs simultaneously with the *Process Parallel Adjustment Runs*, or you can create correspondence for them.
- You can execute the activation, reversal, or the correspondence creation as a background job that enables you to schedule the start date and time for running the job.

Note:

To use this business function, you have to activate the *Financials Extension* (EA-FIN) Enterprise Extension.

Effects on Existing Data

The area menu has been enhanced by the following new entries under *Flexible Real Estate Management -> Country Specifics -> Netherlands*:

- *Create Parallel Adjustment Runs*
- *Process Parallel Adjustment Runs*

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> *SAP ERP Central Component -> SAP Enhancement Package 5 for SAP ERP 6.0 -> Application Help -> Business Functions (SAP Enhancement Package 5 for SAP ERP 6.0) -> Enterprise Business Functions -> Accounting -> Country-Specific Business Functions -> RE-FX, Parallel Adjustment of Conditions for the Netherlands.*

Business Function RE-FX, Localization of Cadastral Master Data for Italy

FIN_LOC_CI_22: Business Function RE-FX, Localization of Cadastral Master Data for Italy (New)

Use

As of SAP enhancement package 5 SP07 for SAP ERP 6.0 (EA-APPL 605), the business function *RE-FX, Localization of Cadastral Master Data for Italy* is available. You can use this business function to meet business requirements in the *Flexible Real Estate Management* (RE-FX) component for Italy.

You can enter specific master data for cadastral objects (buildings and land) that are represented in the system by architectural objects. You can specify the city code, division, sheet, and parcel information; and additionally specify denominator, subordinate, and class information for buildings and quality information for land.

In addition to entering specific master data, you can monitor all the changes that relate to a cadastral object. Changes, for example, in the taxable amount, category ID, in the values that modify the city tax, or in case of the acquisition of the cadastral object must all be reported to the public registration office. The office registers the change and assigns a protocol number to it. You can use the *Cadastral Data (Italy)* tab page in the master data of architectural objects (transaction REBDAO) to manually enter all these changes identifying them with the protocol number.

Note:

To use this business function, you have to activate the *Financials Extension* (EA-FIN) Enterprise Extension.

Effects on Existing Data

The *Architectural Object* (transaction REBDAO) master data has been enhanced by the addition of a new tab page, called *Cadastral Data (Italy).*

Effects on Customizing

You make the following settings in Customizing for *Flexible Real Estate Management* (RE-FX) under *Country-Specific Settings -> Italy -> Tax Calculation for Italy -> Master Data ->*

- **Define City Codes**
- **Define Activity Types**

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> *SAP ERP Central Component -> SAP Enhancement Package 5 for SAP ERP 6.0 -> Application Help -> Business Functions (SAP Enhancement Package 5 for SAP ERP 6.0) -> Enterprise Business Functions -> Accounting -> Country-Specific Business Functions -> RE-FX, Localization of Cadastral Master Data for Italy.*

Travel Management

Business Function Travel Management 3

FIN_TRAVEL_3: BF Travel Management 3 (New)

Use

As of SAP enhancement package 5 for SAP ECC 6.0 (EA-HRGXX 605), Enterprise Extension ***Travel Management Extension (EA-TRV 605)***, the business function ***Travel Management 3 (FIN_TRAVEL_3)*** is available. With this business function, you can use the new and extended functions of the Travel Management (FI-TV) component described below.

Unless specified otherwise, the new functions are available in the following user interfaces:

- Web Dynpro ABAP-based user interface
- SAP GUI Transactions

Extended History and Archiving of Forms

The history function was extended to log information about reimbursement amount, estimated costs, number of receipts, and other data. If you activate logging of history, the system logs the changes to travel requests and expense reports. Users can display the history in the following user interfaces:

- Work centers for travelers, assistants, and approving managers on the Web Dynpro ABAP-based user interface of Travel Management
- Transactions of the travel expense report in SAP GUI; for example, in the Travel Expense Manager (PR05) or in the Travel Calendar (PR02)

If you do **not** activate logging of history, the system automatically logs the changes made to travel expense reports (as in earlier releases). Users can display the change history only in the transactions of the travel expense report in SAP GUI.

If you activate logging of history, you also can define that the travel request forms and expense report forms are to be automatically archived when certain events occur. For example, whenever a user changes data of a travel request or an expense report, a version document (copy of the form) will be saved in the archive using **ArchiveLink**. In Customizing activity **Define History and Archiving of Forms**, you can configure the rules when a version is archived.

Access to versions is linked to the history function, which records all changes by person-related as well as batch users.

You can use the Business Add-In **BAdI: Adjust Archiving Settings** to override or supplement the standard Customizing settings for the archiving.

Storage for Attachments

In the Web Dynpro ABAP-based user interface, users can attach travel documents and receipts as so-called "business documents". This function has long been available in the Travel Expense Manager (PR05) by means of Generic Object Services (GOS).

Users can attach a file to a travel request or expense report either as a plain attachment or as a business document. The system treats business documents and plain attachments differently:

- The system stores business documents in an archive using **ArchiveLink**. The system stores plain attachments in the content repository, which is assigned to content category SOFFDB (see **Define Content Repositories**).
- Business documents are classified by document types, for example, travel document or receipt. You define the document types in Customizing for Archive Link under **Edit Document Types**. When a user attaches a file as a business document, he or she has to select the document type.

Trip Breaks and Reimbursement of Multiple Trips per Day

Users can add trip breaks in travel requests and expense reports, which are **not** to be considered for per diem calculations. Users have the possibility to copy trip breaks in order to quickly create an expense report for trips with daily or weekly returns (for example, a training course).

In compliance with the German tax code, employees are properly reimbursed also for multiple trips per day.

Integration of Budget Periods in Cost Assignment

If the business function ***PSM, Budget Period 2*** (PSM_GEN_BUDPER_2) is activated, budget periods are available in all travel management functions that use cost assignments. You can control the visibility of the budget period fields in Customizing activity **Set Up Variable Layout for Account Assignment Objects**.

For more information, see the release note for **Business Function PSM, Budget Period 2**.

Integration of Third-Party Travel Planning Tools

If the business function ***Third-Party Travel Planning*** (FIN_TRAVEL_PLANNING_EXTERNAL) is activated, you can use a third-party travel planning tool for booking travel services instead of SAP Travel Planning. For more information, see the release note for **Business Function Third-Party Travel Planning**.

Integration with the Shared Services Framework

If the business function ***Travel Management, Enablement for SSC*** (FIN_SSC_TIC_1) is activated, your users are able to create service requests in several applications of Travel Management. For more information, see the release note for **Business Function Travel Management, Enablement for SSC**.

New Functions in Expense Reports

You can implement the following new functions in expense reports:

Limitting Expenses for Business Partners

You can track expenses that occurred for certain business partners. In some industries this is mandatory and needs to be tracked by the system.

In Customizing activity **Field Control for Additional Receipt Information**, you can define that the users can choose business partners as participants. The Business Add-In **BAdI: Check If Maximum Amount Exceeded for Business Partner** allows you to check whether the expenses for a business partner exceed the maximum amount.

The BAdI ensures compliance with statutory rules, such as those prescribed for expense reporting in the United States by the Sarbanes-Oxley Act. One application of these rules is the limitation of entertainment expenses of a pharmaceutical company for business partners that are health care providers.

Paper Receipt Needed

You can define expense type-specific thresholds to trigger when users are required to submit a paper receipt. If a receipt exceeds the threshold, the system issues a warning message telling the user that he or she has to submit a paper receipt. If the user ignores the warning message, the system adds a comment regarding the missing paper receipt to the PDF form of the expense report.

The PDF form for expense reports now shows a summary of the receipts causing violations:

- Missing paper receipts that are required
- Amounts that exceed the maximum

You can define the thresholds in Customizing activity **Define Maximum Rates and Default Values for Expense Types**. This Customizing activity provides the following new amount types:

- Warning message if paper receipt is missing (manual receipt)
- Warning message if paper receipt is missing (credit card receipt)

These amount types allow you to define different thresholds for manual receipts and credit card receipts.

You can define the default settings for the ***Paper Receipt Exists*** indicator in the different user interfaces of the expense report in the Customizing activities **Define Schema and Individual Field Control** and **Schema and Single Field Control for Web Dynpro**.

Cost Comparison

You can activate cost comparisons between expense reports and their related travel requests or travel plans. When a user saves an expense report in transaction PR05 or in the Web Dynpro ABAP-based application, the system performs the following comparisons:

- The system compares the total costs in the expense report to the estimated total costs of the travel request or travel plan. If the difference exceeds a customer-defined limit, the user has to enter a comment. Subsequently, the PDF form for expense reports informs about the exceeding and shows the user's comment.
- If the expense report is compared to the travel plan, the system also compares

the receipts to the bookings. If the difference exceeds a customer-defined limit, the system issues a warning or an error message. If the message is an error, the user has to enter a comment. Subsequently, the PDF form for expense reports informs about the exceeding and shows the user's comment.

You activate the cost comparison function in the Customizing activity **Activate Cost Comparisons**. In this activity, you also define whether the system compares expense reports to travel requests or travel plans.

You define the limits in the following Customizing activities:

- For comparisons on trip level (total costs): **Define Maximum Rates for Cost Comparisons of Trip Costs**
- For comparisons on receipt level: **Define Maximum Rates and Default Values for Expense Types**

Cost Assignment for Mileage and Receipts

In the cost assignment dialog boxes for mileage and receipts, a user can use existing cost assignments that he or she created for additional destinations.

Trip Abroad in Express Expense Sheet

In the express expense sheet, users can enter trips abroad (after you have activated the function in Customizing). When a user enters a foreign destination in the express expense sheet, the system prompts the user to enter additional information that is required for trips abroad. Users can also edit this additional information by choosing ***More Details***. The PDF form also includes the additional information.

If you activate trip abroad in the express expense sheet, you can **no** longer use the Travel Calendar (PR02).

Country Versions for Czech Republic and Slovakia

For the Czech Republic and Slovakia, travel expenses provides new standard country versions to accommodate future legal and regulatory changes. These will be delivered via support packages.

The following new trip provision variants are available:

- ***18*** Czech Republic (CZ)
- ***31*** Slovakia (SK)

Several new functions are available in both country versions, including the following:

- Reimbursement of pocket money; see **Define Pocket Money Per Diems**
- Reimbursement for use of private cars; see **Define Fuel Types and Prices**
- Rounding for cash reimbursements; see **Define Country-specific Rounding Rules for Currencies**

For more information, see SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages*** -> ***ERP Central Component Enhancement Package 5*** -> ***SAP ERP Central Component*** ->

Financials -> ***Financial Accounting*** -> ***Travel Management (FI-TV)*** -> ***Travel Expenses*** -> ***Country and Industry Versions of Travel Expense Accounting*** -> ***Country Version for Czech Republic*** and ***Country Version for Slovakia***.

Effects on Existing Data

You can continue using existing travel data without restrictions.

Effects on System Administration

If business function ***PSM, Budget Period 2*** (PSM_GEN_BUDPER_2) is activated, the Funds Management (FM) component provides a budget period element for cost assignments in Travel Management applications. You can control the visibility of the budget period fields by Customizing activity **Set Up Variable Layout for Account Assignment Objects**.

Effects on Customizing

To customize the extended history and archiving of forms, perform the following Customizing activities:

- **Define History and Archiving of Forms**
- **BAdI: Adjust Archiving Settings**

To control the visibility of the budget period fields, perform Customizing activity **Set Up Variable Layout for Account Assignment Objects**.

To configure electronic ticketing, perform Customizing activity **Define Enterprise-Wide Control Parameters** using the NO_ETIXPOPUP attribute.

To enable the insertion of trip breaks for a trip schema, perform the following Customizing activities:

- **Define Schema and Individual Field Control**
- **Schema and Single Field Control for Web Dynpro**

To limit the expenses for business partners, perform the following Customizing activities:

- **Field Control for Additional Receipt Information**
- **BAdI: Check If Maximum Amount Exceeded for Business Partner**

To define thresholds for when a paper receipt is required, perform Customizing activity **Define Maximum Rates and Default Values for Expense Types**.

To customize the cost comparison, perform the following Customizing activities:

- **Activate Cost Comparisons**
- **Define Maximum Rates for Cost Comparisons of Trip Costs**
- **Define Maximum Rates and Default Values for Expense Types**

To customize the new functions for Czech Republic and Slovakia, perform at least the following Customizing activities:

- **Define Pocket Money Per Diems**
- **Define Fuel Types and Prices**
- **Define Country-specific Rounding Rules for Currencies**

See also

SAP Library for SAP ERP on SAP Help Portal at **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*** -> ***Financial Accounting (FI)*** -> ***Travel Management*** -> ***Travel Management 3***.

SAP enhancement package 5 for SAP ECC 6.0 includes several new functions that are also available in lower releases via SAP notes or support packages:

- See **Advanced Treatment of Value Added Tax**.
- You can use the programm RFTP_CHECK_MEAL_CODE to check whether the Flight Preferences infotype (IT 471) of an employee contains obsolete meal codes. You also can use this program to delete the obsolete meal codes in infotype 471 of the employees and notify them by e-mail about the change in their flight preferences. For more information, see **Identification of Invalid Meal Codes in Infotype 471 After IATA Change**.
- Automated Support of Electronic Tickets
  You can define that all tickets are requested as electronic tickets. In this case, the system creates a corresponding Remark element in the Passenger Name Record (PNR). When a user books a flight, the system informs the user that his or her ticket is being requested as an electronic ticket and the user only needs to select the form of identification. You can configure the system behavior in Customizing activity **Define Enterprise-Wide Control Parameters** using the NO_ETIXPOPUP attribute.

Business Function FI-TV, Travel Management Loc. for Poland, Russia, Ukraine

FIN_TRAVEL_LOC_1: Business Function FI-TV, Travel Management Loc. for Poland, Russia, Ukraine (New)

Use

As of SAP enhancement package 5 SP05 for SAP ERP 6.0 (EA-HRGXX 605), the business function *FI-TV, Travel Management Loc. for Poland, Russia, Ukraine* is available. You can use this business function to meet business requirements in the *Travel Management* (FI-TV) component for Poland, Russia, and Ukraine.

For more information, see the following release notes:

- **FIN_TRAVEL_LOC_1: Travel Management for Poland (New)**
- **FIN_TRAVEL_LOC_1: Travel Management for Russia (New)**
- **FIN_TRAVEL_LOC_1: Travel Management for Ukraine (New)**

Note:

To use this business function, you have to activate the *Travel Management Extension* (EA-TRV) Enterprise Extension.

See also

SAP Library for SAP ERP under *Business Functions (SAP Enhancement Package 5 for*

SAP ERP 6.0) -> Enterprise Business Functions -> Accounting -> Country-Specific Business Functions -> FI-TV, Travel Management Loc. for Poland, Russia, Ukraine.

FIN_TRAVEL_LOC_1: Travel Management for Poland (New)

Use

As of SAP enhancement package 5 SP05 for SAP ERP 6.0 (EA-HRGXX 605), business function *FI-TV, Travel Management Loc. for Poland, Russia, Ukraine* (FIN_TRAVEL_LOC_1), you can use new functions that enable you to meet legal and business requirements in Poland as follows:

- You can enter the reimbursement amount per kilometers with 4 decimal places. The system uses this reimbursement amount to calculate the total mileage reimbursement amount when employees use private cars on business trips.
- You can calculate the meal reimbursement amounts by taking into account the deduction rules in accordance with legal requirements.
- Your employees can enter the travel costs they spend on local or public transport on a business trip on the *Transport* tab page in the *Travel Expense Manager* program. Based on the settings you make in Customizing and the trip data the employees enter in the *Travel Expense Manager* program, the system calculates the reimbursement amounts for travel costs. Employees can either enter the exact amount of the costs and provide receipts for the journey or they can request a reimbursement amount for local or public transport.
- You can define cost categories and distribute the travel expenses among the cost categories in the *Travel Expense Manager* program.
- You can enter a reference date as a default date in the trip schema. You can use the reference date to translate any reimbursement amounts the system calculates or any trip-related costs that the employees enter in the *Travel Expense Manager* program from foreign currency to local currency. This is required if you must post and reimburse all the travel expenses in local currency. You can also use the reference date as a posting date to post the travel expenses in the *Financial Accounting* (FI) component.
- You can enable your employees to insert trip breaks in their travel expense settlement. The trip breaks indicate that the employee interrupted the business trip for private purposes and the system must exclude these time periods from the calculation of the meal reimbursement amounts.

Effects on Existing Data

The *Travel Expense Manager* has been enhanced by the addition of the following:

- *Transport* tab page for the settlement of travel costs the employee spent on local transport or public transport
- *New Trip Break* pushbutton and *Exclude Meal Per Diems from Calculation* column on the *Additional Destinations* tab page to include trip breaks and to exclude the time period of trip breaks from the calculation of meal reimbursement amounts
- *New Cost Category* field in *Cost Distribution* for the distribution and posting of travel expenses

The *Expense Report* and *Express Expense Sheet* programs have been enhanced by the addition of the following on the Web Dynpro ABAP-based user interface:

- *Transport* tab page for the settlement of travel costs the employee spent on local

transport or public transport.
The *Summary Overview* screen contains the total reimbursement amount of local transport and public transport.
If you want to delete trip data in the *Traveler Work Center* program with the *Delete* function, you can also check the transport-related summary overview on the *Delete Expense Report* screen.

- *Cost Category* field for the distribution and posting of travel expenses
- *Exclude Meal Per Diem from Calculation* checkbox to exclude the time period of trip breaks from the calculation of meal reimbursement amount

The **Define Schema and Individual Field Control** Customizing activity has been enhanced by the addition of the following new fields:

- *Trip Break*
- *Transport*
- *Reference Date*

Effects on Customizing

You make settings for mileage reimbursement in the following Customizing activities:

- In Customizing for *Travel Expenses* under *Trip Reimbursement Amounts -> Reimbursement Amounts Travel Costs ->* **Define Flat Rates for Travel Costs**
- In Customizing for *SAP NetWeaver* under *General Settings -> Currencies* and you make all the necessary settings

You make settings for meal reimbursement and deductions in Customizing for *Travel Expenses* under:

- *Trip Reimbursement Amounts -> Reimbursement Amounts for Meals* and you make all the necessary settings
- *Trip Reimbursement Amounts -> Deductions ->* **Define Deductions**
- *Master Data ->* **Check Travel Expense Constants**

You make settings for travel cost reimbursement in Customizing for *Travel Expenses* under:

- *Trip Reimbursement Amounts -> Reimbursement Amounts Travel Costs -> Reimbursement Amounts for Local Transport* and/or *Reimbursement Amounts for Public Transport* and you make all the necessary settings
- *Dialog and Travel Expenses Control -> Dialog Control ->* **Define Schema and Individual Field Control**

You make settings for cost distribution among cost categories in Customizing for *Travel Expenses* under *Transfer to Accounting ->*

- **Define Cost Categories (Poland)**
- **BAdI: Account Det. Adjustment for Cost Categories (Poland)**
- **Define Assignment of Wage Type to Symbolic Account**

You make settings to use the reference date and activate the trip break in Customizing for *Travel Expenses* under *Dialog and Travel Expenses Control -> Dialog Control ->* **Define Schema and Individual Field Control**.

See also

Release Note **FIN_TRAVEL_LOC_1: Business Function FI-TV, Travel Management Loc. for Poland, Russia, Ukraine (New)**

SAP Library for SAP ERP under *SAP ERP Central Component -> Financial Accounting (FI) -> Travel Management (FI-TV) -> Travel Expenses -> Country and Industry Versions of Travel Expense Accounting -> Country Version for Poland.*

FIN_TRAVEL_LOC_1: Travel Management for Russia (New)

Use

As of SAP enhancement package 5 SP05 for SAP ERP 6.0 (EA-HRGXX 605), business function *FI-TV, Travel Management Loc. for Poland, Russia, Ukraine* (FIN_TRAVEL_LOC_1), you can use new functions that enable you to meet legal and business requirements in Russia as follows:

- You can calculate the meal reimbursement amounts in accordance with legal requirements.
- You can manually enter in the system the tax amount written on the receipts the employees provided, as required by law.
- You can enter the trip approval date as a default reference date in the trip schema. You can use the reference date to translate either any trip-related costs that your employees enter in the *Travel Expense Manager* program or the reimbursement amounts the system calculates from foreign currency to local currency. This is required if you must post and reimburse the travel expenses in local currency.
  You can also use the reference date to post travel expenses.

Effects on Existing Data

The **Define Schema and Individual Field Control** Customizing activity has been enhanced by the addition of the *Reference Date* field.

Effects on Customizing

You make settings for meal reimbursement calculation in Customizing for *Travel Expenses* under *Trip Reimbursement Amounts -> Reimbursement Amounts for Meals -> Reimbursement Amounts for Meals/Hours -> Per Diems for Meals (MPD) ->* **Define Per Diems for Meals**.

You make settings to be able to manually enter tax amounts in Customizing for *Travel Expenses* under:

- *Master Data -> Control Parameters for Travel Expenses ->* **Define Global Settings**
- *Master Data -> Advance Treatment of Value Added Tax ->* **Define Processing of VAT Amount in Receipts per Country**
- *Master Data -> Advance Treatment of Value Added Tax ->* **Country-Dependent Field Control for VAT Details**

You make settings to use a reference date in Customizing for *Travel Expenses* under *Dialog and Travel Expenses Control -> Dialog Control ->* **Define Schema and Individual Field Control**.

See also

Release Note **FIN_TRAVEL_LOC_1: Business Function FI-TV, Travel Management Loc. for Poland, Russia, Ukraine (New)**

SAP Library for SAP ERP under *SAP ERP Central Component -> Financial Accounting (FI) -> Travel Management (FI-TV) -> Travel Expenses -> Country and Industry Versions of Travel Expense Accounting -> Country Version for Russia.*

FIN_TRAVEL_LOC_1: Travel Management for Ukraine (New)

Use

As of SAP enhancement package 5 SP05 for SAP ERP 6.0 (EA-HRGXX 605), business function *FI-TV, Travel Management Loc. for Poland, Russia, Ukraine* (FIN_TRAVEL_LOC_1), you can use new functions that enable you to meet legal and business requirements in Ukraine as follows:

- You can calculate the meal reimbursement amounts by taking into account the deduction rules in accordance with legal requirements.
- You can manually enter in the system the tax amounts written on the receipts the employees provided, as required by law.
- You can generate trip journals for auditing purposes.
  The **Trip Journal** program collects the trip data according to your needs and inserts the trip order and trip certificate numbers and dates the employees enter in the *Travel Expense Manager* program, as required by law.
- You can transfer datasets to data medium exchange (DME) with the preliminary DME program for Ukraine.
- You can enter a reference date as a default date in the trip schema. You can use the reference date to translate either any trip-related costs that your employees enter in the *Travel Expense Manager* program or the reimbursement amounts the system calculates from foreign currency to local currency. This is required if you must post and reimburse travel expenses in local currency.
  You can also use the reference date as a posting date to post travel expenses.

Effects on Existing Data

The **Define Schema and Individual Field Control** Customizing activity has been enhanced by the addition of the *Reference Date* field.

The area menu has been enhanced by the addition of the *Trip Journal* program under *Accounting -> Travel Management -> Travel Expenses -> Information System ->* **Trip Journal (Ukraine)**.

The *Data Medium Exchange: Travel Expenses* program is enhanced with the preliminary program for Ukraine.

Effects on Customizing

You make settings for meal reimbursement calculation in Customizing for *Travel Expenses* under *Trip Reimbursement Amounts -> Reimbursement Amounts for Meals/Hours -> Per Diems for Meals (MPD) ->* **Define Per Diems for Meals**.

You make settings to be able to manually enter tax amounts in Customizing for *Travel Expenses* under:

- *Master Data -> Control Parameters for Travel Expenses ->* **Define Global Settings**

- *Master Data -> Advance Treatment of Value Added Tax ->* **Define Processing of VAT Amount in Receipts per Country**
- *Master Data -> Advance Treatment of Value Added Tax ->* **Country-Dependent Field Control for VAT Details**

You make settings to use a reference date in Customizing for *Travel Expenses* under *Dialog and Travel Expenses Control -> Dialog Control ->* **Define Schema and Individual Field Control**.

See also

Release Note **FIN_TRAVEL_LOC_1: Business Function FI-TV, Travel Management Loc. for Poland, Russia, Ukraine (New)**

SAP Library for SAP ERP under *SAP ERP Central Component -> Financial Accounting (FI) -> Travel Management (FI-TV) -> Travel Expenses -> Country and Industry Versions of Travel Expense Accounting -> Country Version for Ukraine.*

Enterprise Asset Management

Business Function EAM, Linear Asset Management 1

LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), the *EAM, Linear Asset Management 1* business function (LOG_EAM_LINEAR_1) is available.

This business function enables you to describe, display, and manage linear assets. Linear assets are technical systems with a linear infrastructure whose condition and properties can vary from section to section (dynamic segmentation).

Examples of linear assets include:

- Pipelines
- Roads and railway tracks
- Overhead power lines / cables

You can create linear assets as technical objects (such as functional locations and equipment) and store linear data. You can carry out maintenance tasks for these technical objects, which result in notifications, maintenance orders, and measurement documents, for example. This enables you to monitor what condition your linear assets are in, identify where there is damage or a defect (using the start point, end point, and offset), and manage all types of maintenance tasks (planned, unplanned, and preventive).

You can enter the following information as linear data for displaying, managing, and maintaining your linear assets:

- Start and end points, length, and unit of measurement (such as kilometers or miles)
- Information on markers (such as start and end points, the distance between a marker and the start point, the distance betweeen a marker and the end point), and unit of measurement
- Information on the offset (for example, horizontal or vertical offset), and units of measurement

For more information, see the following release notes:

- **LOG_EAM_LINEAR_1: Linear Data in Master Data (New)**
- **LOG_EAM_LINEAR_1: Linear Data in Maintenance Documents (New)**
- **LOG_EAM_LINEAR_1: Linear Data in Reports (SAP_APPL) (New)**
- **LOG_EAM_LINEAR_1: Linear Data in Reports (EA-APPL) (New)**
- **LOG_EAM_LINEAR_1: Enterprise Services for Linear Data, Process Component Product Data Maintenance (Enhanced)**
- **LOG_EAM_LINEAR_1: Enterprise Services for Linear Data,**

Process Component Installed Base Data Processing (Enhanced)

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages*** -> ***ERP Central Component Enhancement Package 5*** -> ***Business Functions*** -> ***Business Functions in SAP ERP*** -> ***Enterprise Business Functions*** -> ***Logistics*** ->***Plant Maintenance*** -> ***EAM, Linear Asset Management 1***

LOG_EAM_LINEAR_1: Linear Data in Master Data (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (SAP_APPL 605), business function *EAM, Linear Asset Management 1* (LOG_EAM_LINEAR_1), you can create and manage linear data for your company's linear assets in the master data of the following technical objects:

- Functional location
- Equipment
- Measuring point

To define inspections and maintenance tasks that must be carried out in your linear assets, you can create and manage the maintenance items in maintenance plans with linear data.

Linear Reference Patterns

You can create linear reference patterns as master data. In linear reference patterns, you can group **markers** that are on or alongside a linear asset. The linear reference pattern refers to technical objects (such as functional locations). You can create linear data for each marker (for example, start point, end point, length, and unit of measurement). When you process linear data for functional locations, equipment, measuring points, or maintenance plans, for example, you can use the markers as input help.

Linear reference patterns are also available as Portal content. If you want to use this content, you must install the *Business Package for Generic EAM Functions* and activate the *Simplified Management of EAM Functions* business function (LOG_EAM_SIMPLICITY). For more information, see **LOG_EAM_SIMPLICITY: Simplified Management of EAM Functions (New)**.

Linear Data in Technical Object Classification

You can classify technical objects for which you have created a master record and the necessary classes and characteristics. You can create linear data for the characteristic values. This enables you to define the subsections of the linear technical object in which a specific characteristic value is valid.

If you use characteristics with linear data as well as characteristics for which you have activated Engineering Change Management (LO-ECH), you must create two classes with different class types. You cannot create linear data for characteristic values if Engineering Change Management is activated for the corresponding class type.

Effects on Existing Data

New Fields

The following fields are new in the master data for the functional location, equipment, measuring point, maintenance plan, and maintenance plan item:

- **LRPID** (functional location, equipment)
- **START_POINT**
- **END_POINT**
- **LINEAR_LENGTH**

- **LINEAR_UNIT**
- **MARKER_START**
- **MARKER_END**
- **MARKER_DIST_STA**
- **MARKER_DIST_END**
- **MARKER_DIST_UNIT**
- **OFFSET1_TYPE**
- **OFFSET1_VALUE**
- **OFFSET1_UNIT**
- **OFFSET2_TYPE**
- **OFFSET2_VALUE**
- **OFFSET2_UNIT**

These fields are integrated in the following transactions:

Master Data	Transaction	Program
Functional Location	IL01, IL02, IL03	SAPMILO0
Equipment	IE01, IE02, IE03	SAPMIEQ0
Measuring point	IK01, IK02, IK03, IK04, IK05, IK06	SAPLIMR0
Maintenance plan	IP01, IP02, IP03, IP41, IP42, IP43, IP50	SAPLIWP3
Maintenance plan item	IP04, IP05, IP06	SAPLIWP3

In addition, the LFE_IND field is new in the master data for the functional location and equipment. This field is integrated in the following transactions:

Master Data	Transaction	Program
Functional Location	IL01, IL02	SAPMILO0
Equipment	IE01, IE02	SAPMIEQ0

New Transactions

The following transactions for the linear reference pattern are new:

- IK81
- IK82
- IK83

You can call these transactions from the ***SAP Easy Access*** screen by choosing:

- ***Logistics -> Plant Maintenance -> Management of Technical Objects -> Functional Location -> Linear Asset Management***

- ***Logistics -> Plant Maintenance -> Management of Technical Objects -> Equipment -> Linear Asset Management***

Effects on Customizing

To be able to use these functions, you must activate the *EAM, Linear Asset Management 1* business function (LOG_EAM_LINEAR_1), which belongs to the software component version EA-APPL 605.

Customizing for *Classification System*

- **Maintain Object Types and Class Types**
  For the class types *Equipment* and *Functional Location* you have created an organizational area that you use in the Customizing actvity **Define Organizational Area for Characteristics with Linear Data**, for identifying characteristics as relevant for Linear Asset Management.

Customizing for *Linear Asset Management*

- **Define Offset Types**
- **Define Organizational Area for Characteristics with Linear Data**

Customizing for *Plant Maintenance and Customer Service*

- **Define Measuring Point Categories**
  To be able to create linear data for a measuring point, you must first set the **Linear Asset** indicator for the measuring point category.
  In the standard system, the measuring point category ***L - Linear Data*** is available in client 000 and can be copied to the relevant clients.
- **Set View Profiles for Technical Objects**
  You have created view profiles for linear data.
- **Define Category of Functional Location**
  To be able to create linear data for a functional location, you must first set the **Linear Asset** indicator for the functional location category. You have assigned the view profile for linear data to the functional location category.
  In the standard system, the functional location category ***L - Linear Data*** is available in client 000 and can be copied to the relevant clients.
- **Maintain Equipment Category**
  To be able to create linear data for equipment, you must first set the **Linear Asset** indicator for the equipment category. You have assigned the view profile for linear data to the equipment category.
  In the standard system, the equipment category ***L - Linear Data*** is available in client 000 and can be copied to the relevant clients.

See also

Release Note **LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New)**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP ERP Central Component-> Logistics -> Plant Maintenance -> Technical Objects -> Linear Asset Management***

LOG_EAM_LINEAR_1: Linear Data in Maintenance Documents (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (SAP_APPL 605), business function *EAM, Linear Asset Management 1* (LOG_EAM_LINEAR_1), you can carry out maintenance tasks for keeping your technical linear assets in operating order. You can create and manage linear data in the following maintenance documents:

- In the **maintenance notification** or **service notification**, you can describe the condition your linear asset is in, or report a malfunction and request that the damage be repaired.
- In the **maintenance order** or **service order**, you can plan maintenance tasks in detail that are to be carried out in the linear asset and monitor the progress.
- In the **operation** (maintenance order, service order), you can describe each maintenance task that is to be carried out in your linear asset.
- In the **confirmation** (individual time confirmation, collective time confirmation), you can record the processing status of a maintenance order.
- In the **measurement document**, you can enter data that you measured at a measuring point or read on a counter.

Effects on Existing Data

New Fields

The following fields are new:

- **START_POINT**
- **END_POINT**
- **LINEAR_LENGTH**
- **LINEAR_UNIT**
- **MARKER_START**
- **MARKER_END**
- **MARKER_DIST_STA**
- **MARKER_DIST_END**
- **MARKER_DIST_UNIT**
- **OFFSET1_TYPE**
- **OFFSET1_VALUE**
- **OFFSET1_UNIT**
- **OFFSET2_TYPE**
- **OFFSET2_VALUE**
- **OFFSET2_UNIT**

These fields are integrated in the following transactions:

Maintenance Document	Transaction	Program
Maintenance notification	IW21, IW22, IW23, IW25, IW26	SAPLIQS0
Notification item	IW21, IW22, IW23, IW25, IW26	SAPLIQS0
Service notification	IW51, IW52, IW53, IW55, IW56	SAPLIQS0
Maintenance order	IW31, IW32, IW33, IW34, IW36	SAPLCOIH
Operation	IW31, IW32, IW33, IW34, IW36	SAPLCOIH
Confirmation	IW41, IW43, IW45	SAPLCORU
Collective time confirmation	IW42, IW44, IW48	SAPLCMFU
Measurement document	IK11, IK12, IK13, IK21	SAPLIMR0

Effects on Customizing

To be able to use these functions, you must activate the *EAM, Linear Asset Management 1* business function (LOG_EAM_LINEAR_1), which belongs to the software component version EA-APPL 605.

See also

Release Note **LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New)**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP ERP Central Component-> Logistics -> Plant Maintenance -> Technical Objects -> Linear Asset Management***

LOG_EAM_LINEAR_1: Linear Data in Reports (SAP_APPL) (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (SAP_APPL 605), business function *EAM, Linear Asset Management 1* (LOG_EAM_LINEAR_1), you can enter linear data as selection criteria on the selection screens of various plant maintenance reports. From the result list, you can then call and process master data or maintenance documents with linear data.

The SAP List Viewer is available for displaying and formatting the lists with linear data. You can store information on the column setup, sort criteria, and filter conditions in layouts.

Graphical Display of Linear Data

In some reports (transactions IL07, IE07, IW30, and IW40), you can display a graphic for linear data from the results list. The system displays the start and end points for each highest level object and its lower-level objects as horizontal bars. Depending on the list view, you can go from the graphic view to the display version of the respective object.

Effects on Existing Data

New Fields

The following fields are new on the selection screen:

- **RANGE**
- **START_POINT**
- **END_POINT**
- **LINEAR_LENGTH**
- **LINEAR_UNIT**
- **LRPID**

These fields are integrated in the following transactions:

Report	Transaction	Program
Functional location	IH06, IH11, IL05, IL20	RIIFLO20
Functional location (multilevel)	IL07	RIIFLO30
Functional location (structural display)	IH01	RIIFLO10
Equipment	IE05, IE06, IH08, IH10	RIEQUI20
Equipment (multilevel)	IE07	RIEQUI30
Equipment (structural display)	IH03	RIEQUI10
Serial number	IQ08, IQ09	RIEQUI21
Serial number/Unique Item Identifier (UII)	IQ10, IQ11	RIEQUI22
Measurement Document	IK17, IK18	RIIMR020
Notification	IW28, IW29, IW58, IW59	RIQMEL20

Notification (multilevel)	IW30	RIQMEL10
Notification item	IW68, IW69	RIQMEL40
Maintenance order	IW38, IW39, IW72, IW73	RIAUFK20
Maintenance order (multilevel)	IW40	RIAUFK10
Order operation	IW37, IW49	RIAFVC20
Maintenance item	IP17, IP18	RIMPOS00
Confirmation	IW47	RIAFRU20

The following fields are new in the results list. You can show or hide these fields:

- **START_POINT**
- **END_POINT**
- **LINEAR_LENGTH**
- **LINEAR_UNIT**
- **LRPID**
- **MARKER_START**
- **MARKER_DIST_STA**
- **MARKER_END**
- **MARKER_DIST_END**
- **MARKER_DIST_UNIT**
- **OFFSET1_TYPE**
- **OFFSET1_VALUE**
- **OFFSET1_UNIT**
- **OFFSET2_TYPE**
- **OFFSET2_VALUE**
- **OFFSET2_UNIT**

These fields are integrated in the transactions and programs mentioned above.

Graphical Display of Linear Data

By choosing the new ***Linear Data*** pushbutton, you can call graphics for linear data from the results list of the following reports:

Report	Transaction
Functional location (multilevel)	IL07
Equipment (multilevel)	IE07
Maintenance order (multilevel)	IW40
Notification (multilevel)	IW30

Effects on Customizing

To be able to use these functions, you must activate the *EAM, Linear Asset Management 1* business function (LOG_EAM_LINEAR_1), which belongs to the software component version EA-APPL 605.

See also

Release Note **LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New)**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP ERP Central Component-> Logistics -> Plant Maintenance -> Technical Objects -> Linear Asset Management***

LOG_EAM_LINEAR_1: Linear Data in Reports (EA-APPL) (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function *EAM, Linear Asset Management 1* (LOG_EAM_LINEAR_1), you can enter linear data as selection criteria on the selection screens of various plant maintenance reports. From the results list, you can then call and process master data or maintenance documents with linear data.

The SAP List Viewer is available for displaying and formatting the lists with linear data. You can store information on the column setup, sort criteria, and filter conditions in layouts.

Effects on Existing Data

New Fields

The following fields are new on the selection screen:

- **RANGE**
- **START_POINT**
- **END_POINT**
- **LINEAR_LENGTH**
- **LINEAR_UNIT**
- **LRPID**

These fields are integrated in the following transactions:

Report	Transaction	Program
Maintenance Order and Operation	IW37N, IW49N	
		RI_ORDER_OPERATION_LIST

The following fields are new in the results list. You can show or hide these fields:

- **START_POINT**
- **END_POINT**
- **LINEAR_LENGTH**
- **LINEAR_UNIT**
- **LRPID**
- **MARKER_START**
- **MARKER_DIST_STA**
- **MARKER_END**
- **MARKER_DIST_END**
- **MARKER_DIST_UNIT**
- **OFFSET1_TYPE**

- **OFFSET1_VALUE**
- **OFFSET1_UNIT**
- **OFFSET2_TYPE**
- **OFFSET2_VALUE**
- **OFFSET2_UNIT**

These fields are integrated in the transactions and programs mentioned above.

See also

Release Note **LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New)**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> SAP ERP Central Component-> Logistics -> Plant Maintenance -> Technical Objects -> Linear Asset Management***

LOG_EAM_LINEAR_1: Enterprise Services for Linear Data, Process Component Product Data Maintenance (Enhanced)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (SAP_APPL 605), business function *EAM, Linear Asset Management 1* (LOG_EAM_LINEAR_1), the following enhanced operations are available for processing linear data in the process component *Product Data Maintenance*.

- *IndividualMaterialERPChangeRequestConfirmation_In_V1*
- *IndividualMaterialERPCreateRequestConfirmation_In_V1*
- *IndividualMaterialByIDQueryResponse_In_V1*
- *IndividualMaterialERPCreateCheckQueryResponse_In_V1*

Effects on Customizing

To be able to use these enhanced operations, you must activate the *EAM, Linear Asset Management 1* business function (LOG_EAM_LINEAR_1), which belongs to the software component version EA-APPL 605.

See also

Release Note **LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New)**

LOG_EAM_LINEAR_1: Enterprise Services for Linear Data, Process Component Installed Base Data Processing (Enhanced)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (ECC-SE 605), business function *EAM, Linear Asset Management 1* (LOG_EAM_LINEAR_1), the following enhanced operations are available for processing linear data in the process component *Installed Base Data Processing*.

- *InstallationPointERPCreateRequestConfirmation_In_V1*
- *InstallationPointERPCreateCheckQueryResponse_In_V1*
- *InstallationPointERPChangeRequestConfirmation_In_V1*
- *InstallationPointERPChangeCheckQueryResponse_In_V1*
- *InstallationPointERPByIDQueryResponse_In_V1*

Effects on Customizing

To be able to use these enhanced operations, you must activate the *EAM, Linear Asset Management 1* business function (LOG_EAM_LINEAR_1), which belongs to the software component version EA-APPL 605.

See also

Release Note **LOG_EAM_LINEAR_1: Business Function EAM, Linear Asset Management 1 (New)**

Business Function Enterprise Asset Management Part 4

LOG_EAM_CI_4: Business Function Enterprise Asset Management Part 4 (New)

Use

As of ***SAP Enhancement Package 5 for SAP ERP 6.0 (EA_APPL 605)***, you can use the business function LOG_EAM_CI_4. This business function allows you to use various enhancements for processes in plant maintenance.

For more information, see the following release notes:

- **Inspection Rounds**
- **Enhancements to Maintenance Order BAPIs (Changed)**
- **BAPIs for Installation and Removal of Non-Serialized BOM Items with or Without Goods Movement (New)**
- **Maintenance Cost Budgeting**
- **Enhancements to Maintenance Plan Scheduling**
- **Enhancements to Measurement Documents and Measuring Points**
- **Change Documents for Maintenance Plan Scheduling**

See also

SAP Library at **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Plant Maintenance***.

LOG_EAM_CI_4: Inspection Rounds (Enhanced)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function LOG_EAM_CI_4***, the overall completion confirmation process has been enhanced. These enhancements mainly affect inspection rounds.

When you perform an overall completion confirmation at the end of an inspection round, you can create a notification for a technical object that is assigned to an operation directly from the overall completion confirmation. You can also change a notification that already exists for a technical object.

There is an example implementation of the IMRC_CHECK_RDGS Business Add-In (BAdI). This shows how an error message is issued when the tolerance limits for measurement readings are exceeded.

Effects on Data Transfer

Existing data is not affected.

See also

For more information, see SAP Library under ***Inspection Rounds***.

Enhancements to Maintenance Plan Scheduling (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0, Enterprise Extension PLM*** (EA-PLM 605), the following enhancements have been made for maintenance plan scheduling

- API functions have been developed for scheduling maintenance plans. The APIs provide the same functions as transaction IP10, namely the creation of maintenance plan calls or changing of already existing calls:
  - MPLAN_START - sets the given start date to the plan and starts the scheduling of the plan.
  - MPLAN_RESTART - sets the given start date to the plan, deletes or holds the existing open calls and starts the scheduling of the plan
  - MPLAN_START_CYCLE - starts scheduling of the maintenance plan cycle
  - MPLAN_MANUAL_CALL - creates a manual call with a call object
  - MPLAN_COMPLETE_CALL - marks the given call as completed
  - MPLAN_RELEASE_CALL - creates call objects for scheduling items with status 'on hold'
  - MPLAN_SKIP_CALL - skips the call
  - MPLAN_FIX_CALL - fixes the call
  - MPLAN_UPDATE_SCHEDULING - updates the existing scheduling.
- The following new BAdIs are available which enhance the functions available with the already-existing homonymous customer exits:
  - **BADI_EAM_EXIT_IPRM0002**
  - **BADI_EAM_EXIT_IPRM0003**
  - **BADI_EAM_EXIT_IPRM0005**
  - **BADI_EAM_EXIT_DUE_DATE_TIME**

See also

Release note **Enterprise Asset Management 4**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM).***

LOG_EAM_CI_4: BAPIs for Installation and Removal of Non-Serialized BOM Items (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0, Enterprise Extension PLM (EA-PLM 605), Business Function LOG_EAM_CI_4***, the BAPIs BAPI_IE4N_BOM_REMOVE and BAPI_IE4N_BOM_INSTALL are available. With these BAPIs you can remove a non-serialized material from the BOM header of a piece of equipment and install a non-serialized material into the BOM header of a piece of equipment without any user interaction required in transaction IE4N.

See also

For more information, refer to the BAPI documentation in the BAPI Explorer (transaction BAPI).

LOG_EAM_CI_4: Maintenance Cost Budgeting (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, Enterprise Extension *PLM (EA-PLM 605),* business function *Enterprise Asset Management Part 4* (LOG_EAM_CI_4), you can use the new features available in Maintenance Cost Budgeting (MCB).

Following are the features available from the perspective of the type of master data that the extractor can handle:

- Extracting maintenance plans that creates notification as call object
- Extracting details from hierarchical task list as well as maintenance plans that use hierarchical task list

Apart form the above mentioned improvements, the following feature is also available:

Retracting the approved budget back to the ERP system, and allow the planner to review these details along with cost incurred to maintain the technical object, while planning and processing the order. With this the planner gets a better visibility for budget utilization.

The following additional details also get extracted and these changes are also available in the lower releases:

- The extractor for simulated cost extracts details of maintenance cost at operation level. It can also extract simulated material requirement including the period in which they may be required.
- The extractor includes service master, work center along with its plant, controlling activities as well as the efforts needed to perform the task. These extra features allow the planner to get more detailed view of zero based cost budget. The planner also gets information from the simulated requirement of resources.

Effects on Customizing

To use this function, you must activate the business function *Enterprise Asset Management Part 4* (LOG_EAM_CI_4).

You make the Customizing settings for this function in Customizing for *PM* under *Plant Maintenance and Customer Service -> Information Systems for Plant Maintenance and Customer Service -> Maintenance Cost Budgeting* for the following activities:

- Extraction Parameters:Task List/Maintenance Plan
- Define Budget Check for Order Types

See Also

For more information on the changes in the lower releases, refer to SAP Notes 1285238 and 1312783.

Release note **LOG_EAM_CI_4: Business Function Enterprise Asset Management Part 4 (New)** .

Enhancements to Maintenance Plan Scheduling (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0, Enterprise Extension PLM*** (EA-PLM 605), the following enhancements have been made for maintenance plan scheduling

- API functions have been developed for scheduling maintenance plans. The APIs provide the same functions as transaction IP10, namely the creation of maintenance plan calls or changing of already existing calls:
  - MPLAN_START - sets the given start date to the plan and starts the scheduling of the plan.
  - MPLAN_RESTART - sets the given start date to the plan, deletes or holds the existing open calls and starts the scheduling of the plan
  - MPLAN_START_CYCLE - starts scheduling of the maintenance plan cycle
  - MPLAN_MANUAL_CALL - creates a manual call with a call object
  - MPLAN_COMPLETE_CALL - marks the given call as completed
  - MPLAN_RELEASE_CALL - creates call objects for scheduling items with status 'on hold'
  - MPLAN_SKIP_CALL - skips the call
  - MPLAN_FIX_CALL - fixes the call
  - MPLAN_UPDATE_SCHEDULING - updates the existing scheduling.
- The following new BAdIs are available which enhance the functions available with the already-existing homonymous customer exits:
  - **BADI_EAM_EXIT_IPRM0002**
  - **BADI_EAM_EXIT_IPRM0003**
  - **BADI_EAM_EXIT_IPRM0005**
  - **BADI_EAM_EXIT_DUE_DATE_TIME**

See also

Release note **Enterprise Asset Management 4**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM).***

Enhancements to Measurement Documents and Measuring Points (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0***, (SAP-APPL 605), the following enhancements have been made to measurement documents:

- New API MEASUREM_DOCUM_RFC_CANCEL to reverse measurement documents
  This API allows partners and customers to reverse measurement documents in their own developments. The API performs the same checks and calculations as those performed when setting the ***Reversal*** indicator in transaction **IK12** (***Change Measurement Document***). There is no API available for reactivating a reversed measurement document (as is possible in **IK12**). If you want to do so, the best solution is to create a new measurement document.
- Customer enhancements converted to BAdIs
  To enable partners to enhance the existing solution and provide default implementations, the following customer enhancements have been converted to BAdIs. The BAdIs perform the same functions as the existing customer enhancements:
  IMRC0001: MeasPoint/MeasDoc: Exit before update (after COMMIT WORK) --> BAdI **MEAS_CUST_FIELDS_FILL**
  IMRC0002: MeasPoint: Menu exit for customer-specific function --> BAdI **MEAS_POINT_FCODE_CUST**
  IMRC0003: MeasDoc: Menu exit for customer-specific function --> BAdI **MEAS_DOC_FCODE_CUST**
  IMRC0005: Measure point: Exit in AUTHORITY_CHECK_IMPT --> BAdI **MEAS_POINT_AUTH_CHECK**
- There is a new BAdI available for disabling the ability to reset the reversal indicator for measurement documents in **IK12**.**DISABLE_RESET_REVERS_IND**

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Measuring Points and Counters (CS-IB-MC / PM-EQM-SF-MPC)***.

LOG_EAM_CI_4: Change Documents for Maintenance Plan Scheduling (New)

Use

As of SAP enhancement package 5 for ERP 6.0 (SAP_APPL 605), business function ***Enterprise Asset Management Part 4*** (LOG_EAM_CI_4), change documents for scheduling maintenance plans have been enhanced. In the airline industry, for example, it is important to be able to trace the changes made in the handling of maintenance plans, especially in the scheduling of them.

You can trace and document the following actions using change documents for maintenance plan scheduling:

- Start/restart/start in cycle
- Release call
- Manual call
- Fix call
- Skip call
- Confirm call

Note, that you can activate the function to write change documents for the release of an appointment in scheduling using a second indicator.

Effects on Existing Data

New interface elements:

New data element MP_CHDOC_RCAL(indicator for change documents for releasing calls). The new field CHDOC_RCAL (***DocumentRelease***) of table T399W (Customizing table ***Maintenance Plan Scheduling Type***) is used to specify that the release of scheduling for a maintenance plan is also documented with a change document.

Already existing change documents are not changed.

Effects on Customizing

Activate the write function for change documents in Customizing by setting the indicator ***DocumentRelease*** under ***Plant Maintenance and Customer Service -> Maintenance Plans, Work Centers, Task Lists and PRTs -> Maintenance Plans -> Set Maintenance Plan Categories***.

See also

Release note **Enterprise Asset Management Part 4**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Preventive Maintenance (PM-PRM) -> Maintenance Planning (CS-AG/PM-PRM-MP) -> Change Documents***.

Business Function Operation Account Assignment

LOG_EAM_OLC: Business Function Operation Account Assignment (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0*** (SAP_APPL 605), the business function ***Operation Account Assignment*** is available. With this business function, you can have cost objects at the operation level.

More granular cost collection allows for reduced order quantities, better backlog management, and improved asset costing for regulatory reporting. Extending the number of cost collectors on the order results in a reduced number of orders which, in turn, reduces backlog.

WBS element allocation at the operation level enhances integration with Project System reporting.

Different account assignment values for a single order allow accurate capital and operational costs at the same time.

The Operation Account Assignment solution permits a single plant maintenance (PM) or customer service (CS) order to have cost objects at the operation level. The solution significantly reduces the creation of orders, increases the ease of use of the PM and CS orders, and allows you to benchmark maintenance tasks.

In addition, this solution allows the detailed planning and collection of costs for work management activities, especially in the Utilities industry. Each of the account assignment functions available for the header is now possible at the operation level, delivering more flexibility in task costing. This is relevant for the following customers:

- Customers in asset-intensive industries, such as Utilities, Oil and Gas, Transportation, Public Sector, and Mining
- Customers in industries requiring detailed maintenance costs for regulatory reporting
- Customers working on multiple assets with different accounting requirements for the same work order

For more information, see the following release notes:

- **Maintenance/Service Order: Order Operation as Account Assignment Object**

Effects on Customizing

Define the cost settings in Customizing under **Define Cost Settings**.

LOG_EAM_OLC: Maintenance/Service Order: Order Operation as Account Assignment Object (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0*** (SAP_APPL 605), the business function ***Operation Account Assignment*** is available. With this business function, you are now also able to assign costs at the transaction level with the order types for maintenance/service orders. This enables you to enter, plan, and post estimated costs, plan costs, and actual costs at the operation level. The new function can only be used with order types for maintenance/service orders.

The system considers these order operations as account assignment objects in the postings for Financial Accounting (FI), Controlling (CO), Materials Management (MM), and Sales and Distribution (SD).

With the new ***Order Operation as Account Assignment Object*** function, the following account assignment information, for example, is also available at the level of the order operation:

- Costing sheet
- Overhead structure
- Profit center
- Maintenance activity type
- Work breakdown structure element (WBS element)

The following adjustments have been made to the way orders are processed with the automatic creation of reservations or purchase requisitions for materials and services:

- In the case of orders assigned at operation level, the order operation is the assignment object in the documents created by the system.
- For order confirmation in the case of orders assigned at the operation level, the system updates the actual costs to the cost objects of the order operations in the background as opposed to updating them to cost object of the order header.

The following functions are not available for the account assignment object Order Operation:

- The system cannot post revenue to an order operation.
- The system cannot use an order operation as a settlement receiver. The system consequently does not accept any order operations as receiver objects in the settlement rules.

Effects on Existing Data

The new function Order Operation as Account Assignment Object is available in various transactions for processing maintenance and service orders.

The function Operation Cost Overview (transaction `IW40N`) has been added to the SAP Easy Access menu. You access this function in the SAP Easy Access menu by choosing ***Logistics*** -> ***Plant Maintenance*** -> ***Maintenance Processing*** -> ***Order*** -> ***Order and Operation List*** -> ***Display***.

Furthermore, the new function is available in the following transactions:

Function	Transaction
Create (General)	IW31
Change Order	IW32
Display Order	IW33
Create Suborder	IW36
Change Operations: Order Operation Selection	IW37
Display Operations: Order Operation Selection	IW49
Change Orders and Operations: Selection of Orders and Operations	IW37N
Display Orders and Operations: Selection of Orders and Operations	IW49N

In the above transactions, tab pages and fields have been either added especially for assignment at operation level or restricted to assignment at order level.

Here is an overview of all new features:

- On the ***Operations*** tab page, you use the ***Account Assignment*** pushbutton to navigate from an operation to the new ***Account Assignment/Costs*** screen. In this screen, you can edit the account assignment information and the estimated costs for the operation.
  Once you have planned or posted an order with costs, the plan costs/quantities and the actual costs/quantities are also displayed in this screen.
  Note that the system determines the plan costs at the header level from the total of plan costs for ***all*** operations.
- On the ***Costs*** tab page at the header level and the ***Account Assignment*** tab page at the operation level, you can display the aggregated costs for all operations (***Report Planned/Actual*** pushbutton) and the commitments report (***Budget/Commitments Report*** pushbutton).
- On the ***Header Data*** tab page for the order, you can now copy plan costs manually to estimated costs by using the new ***Copy Estimated Costs from Planned Costs*** pushbutton. If you perform this transfer before releasing the order, you can document the status of the plan costs at the time when the order is released.
- On the ***Account Assignment*** tab page for order operations, the ***Settlement Rule*** pushbutton is available. You can use this pushbutton to create settlement rules for the related operation. You can choose whether the system applies the settlement rules stored in the existing master data or whether you want to edit the settlement rules manually.
- At the order header level, you cannot edit settlement rules for orders assigned at the operation level. The relevant pushbutton is not active.
- At the order header level, you can centrally generate settlement rules for all operations that do not yet have a settlement rule. For this, you use the menu entry ***Order*** -> ***Functions*** -> ***Settlement Rules***. The system then determines a settlement rule from the master data in the order and enters this rule in the relevant operations.
- In the Change Order function (transaction `IW32`), you find the new menu entry ***Operation Settlement Rule*** (***Goto*** -> ***Logs*** -> ***Operation Settlement Rule***). The operation settlement rule displays the errors logs created when the settlement rules were created.

- When you create a maintenance/service order, you can use a new checkbox ***Settlement Rule***. You use this checkbox to specify whether you want to copy existing settlement rules at the operation level from the specified reference order to the new order. The system issues a message if the desired settlement rule differs from that of the reference order. You can then decide which settlement rule is applied thereafter.
  This new function is available independently of the order type used.
- With an order assigned at the operation level, you can apply a WBS element in the order header (as before) as well as in the order operation. Note that, for such an order, the system does not consider the assignment at the header level for cost evaluations and availability checks. The assignment can only be used for scheduling purposes.
- You cannot assign an order to an investment program if one or more order operations is assigned to a WBS element. On the other hand, the assignment at the operation level is not permitted once the order is assigned to an investment program.
- The Currency field has been added to the transactions ***Change Operations: Order Operation Selection*** (transaction `IW37`) and ***Display Operations: Order Operation Selection*** (transaction `IW49`). You can use this field to specify the currency in which the costs for the order operations are displayed.

Archiving

Archiving has been adjusted for account assignments at the operation level as follows:

In archiving of service and maintenance orders, the fields ***PMCO_OP*** (Cost Structure and Overview of the Order [Order Item]) and ***PMCOQT_OP*** (Quantity Structure of the Maintenance Order [Order Item]) have been added to the archiving object ***PM_ORDER***. The archiving process of archiving object ***PM_ORDER*** is not affected by whether an order has an account assignment at the order header level or at the order item level.

Basic Settings for Account Assignments at the Operation Level

- If you want to use maintenance and service orders with an account assignment at the operation level, you need to specify the necessary combination of order type and maintenance planning plant in Customizing.
  You make the settings for this function in Customizing for ***Plant Maintenance and Customer Service*** under ***Define Cost Settings***.
- Note that a maintenance and service order with an account assignment at the operation level cannot be used as an investment order. You make the settings for this function in Customizing for Plant Maintenance and Customer Service under Indicate Order Types for Investment Measures, but only in the case of order types without an account assignment at the operation level.
- Note that a maintenance and service order with an account assignment at the operation level cannot be used as a refurbishment order. You make the settings for this function in Customizing for ***Plant Maintenance and Customer Service*** under ***Indicate Order Types for Refurbishment Processing***, but only in the case of order types without an account assignment at the operation level.
- If you want to perform resource-related billing and create quotations, you need to have made the appropriate settings for the dynamic item processor (DIP) profile

for quotation creation and billing. You need to ensure that the system can process the items for each cost object. For this, select the object number in the DIP profile as a criterion that is not relevant for summarization.
You make the settings for this function in Customizing for ***Plant Maintenance and Customer Service*** under ***Profiles for Quotation Creation, Billing, Results Analysis***.

- If the parameters for the assignment of cost elements to value categories have changed for an order, you can trigger the restructuring of tables PMCO and PMCO_OP manually. The system then adjusts the order costs at the operation level.
  You make the settings for this function in Customizing for ***Plant Maintenance and Customer Service*** under ***Restructure Order Costs: PMCO and PMCO_OP***.

New Business Add-Ins (BAdIs)

Three new BAdIs are available:

- **BAdI: Maintenance/Service Order: Settlement Rule for Operation** (BADI_OLC_SETTL_RULE_DET_OPR)
- **BAdI: Define Default Values for Operation Account Assignment** (EAM_OAA_DEFAULT)
  A default implementation is delivered for all fields, but not for any WBS elements. With the default implementation, the header data is copied to the operations.
- ***BAdI: IS-U/FERC: Extension for Regulator Reporting*** (EAM_FERC_DEFAULT)
  You use this BAdI to set an alternative indicator value for the regulator report at the order operation level.

BAPI Adjustment for an Account Assignment at the Operation Level

The BAPI ***BAPI_ALM_ORDER_MAINTAIN*** has been adjusted so that orders that have been created automatically from compatible unit designs with planning elements can also be created as maintenance/service orders with an account assignment at operation level. This is controlled by the Customizing settings at the level ***Order Type – Maintenance Planning Plant.***

See also

For more information, see the following sections of the SAP Library:

- The business function documentation under ***Business Functions (Enhancement Package 5 for SAP ERP 6.0)*** -> ***Business Functions in SAP ERP*** -> ***Enterprise Business Functions*** -> ***Logistics*** -> ***Plant Maintenance***.
- The application documentation under ***ERP Central Component*** -> ***Logistics*** -> ***Plant Maintenance (PM)*** -> ***Maintenance Processing (PM-WOC)*** -> ***Orders (CS-SE/PM-WOC-MO)***.

Business Function Refurbishment and Subcontracting Improvements

LOG_EAM_ROTSUB_2: Refurbishment and Subcontracting 2

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0, Industry Extension Discrete Industries and Mill Products*** (ECC-DIMP 605), the business function ***Refurbishment and Subcontracting 2*** (LOG_EAM_ROTSUB_2) is available with new functions in the following areas:

- **Refurbishment and Subcontracting Integration**
- **Improvements in Conversion of Planned Order**
- **Stock Determination in Maintenance Order**

Effects on System Administration

- If you activate business function LOG_EAM_ROTSUB_2 and import Support Packages for the software components SAP-APPL or EA-APPL, you must also import the ECC-DIMP Support Packages.
- Before activating enterprise extensions, see SAP Note 933963 for possible restrictions.
- You cannot use this business function if you are working with catch weight materials.
- The A&D subcontracting process should only be used with maintenance orders/refurbishment orders. Its usage with other order types is not recommended.

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp -> *SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> Industries in SAP ERP -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance, Repair, and Overhaul -> Maintenance and Service Processing -> Subcontracting for MRO Processes.***

LOG_EAM_ROTSUB_2: Refurbishment and Subcontracting Integration (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, Industry Extension ***Discrete Industries and Mill Products*** (ECC-DIMP 605), business function ***Refurbishment and Subcontracting 2*** (LOG_EAM_ROTSUB_2), you can now use refurbishment orders in the subcontracting process. Until now, an integrated refurbishment process, that is, one that integrates refurbishment orders with subcontracting purchase requisitions and subcontracting purchase orders, was not supported. Now, to enable a business process in which internal and external repair tasks can be combined if necessary, the refurbishment order has been enhanced. The refurbishment order corresponds to the standard maintenance order type PM04.

- The ***Subcontracting*** indicator can now be set at external operation level for refurbishment orders.
- Material provision indicator (MPI) for components of external and internal operations in refurbishment orders has been enabled.
  You can set the value of the MPI for components of external and internal operations in refurbishment orders to one of the following values on the ***Component*** detail screen.
  - ***Rework Material to Subcontractor (S)***
  - ***Rework Material from Subcontractor (X)***
  - ***Subcontracting*** (Provided to the subcontractor as consumables) (Initial in the SAP standard system)
- Maintenance task lists with external operations in refurbishment orders are now supported.
  You can import maintenance task lists with external operations into refurbishment orders.
- Automatic creation of subcontracting purchase requisitions from refurbishment order with serial numbers and with additional/consumable components.
  - Later changes made to refurbishment orders are synchronized in the linked subcontracting purchase requisition automatically and instantly.
  - If the header part of the refurbishment order is serialized, and if serial number information has been entered in the refurbishment header, it is copied into the subcontracting purchasing requisition. It refers to the serial number list that can be accessed from the order header screen, not the serial numbers that could previously be entered on the ***Objects*** tab page in the A&D solution. This tab page is no longer visible
  - Component quantities can be changed during the process in the same way as a normal refurbishment process.
  - Valuation type and batch may change only in the last operation.
- Consistency checks have been introduced for reservation data in the partial subcontracting scenario.
- In **IW8W**, the ***Delivery Completed*** indicator behaves differently in a refurbishment order with partial subcontracting. In the standard, only one goods receipt is possible, while in refurbishment orders with partial subcontracting, there can be multiple goods receipts for internal and external processes. In both the standard and in the refurbishment order with partial subcontracting scenario,

the ***Final Delivery*** indicator and delivered quantity are set in the refurbishment order.
In a refurbishment order with partial subcontracting, these values are only set upon the last goods receipt (for an external or internal operation). During goods receipt, if the ***Delivery Completed*** indicator is set, and the material and/or quantity of the goods receipt differs from the material and/or quantity in the refurbishment order header, then the header of the refurbishment order is updated with the new material and/or quantity of the goods receipt (updated with follow-on reservations and follow-on purchase requisitions of external subcontracting processes; workflow is started).
If the ***Delivery Completed*** indicator is set, then no more goods receipts are possible for this maintenance activity.

- There is a new posting for goods receipts for subcontracting operations in the refurbishment order (goods movement 101, previously it was 262). When special stock is used, no additional movement is necessary. When special stock is not used and the last operation within the refurbishment order is an external subcontracting operation, the additional goods movement 101 is posted to close the refurbishment order.

Effects on Customizing

The following new Business Add-Ins (BAdI) are available:

- BAdI ***Allow Serial No. Change for Subcon. Goods Receipt in Refurb*** Orders **BADI_ROTSUB_SERNO_CHG_AT_GR** which you can use to allow serial number changes for subcontracting goods receipts in refurbishment orders. You can assign subcontracting operations to refurbishment orders. If the main rework item is serialized, the subcontracting functions allow you to change the serial numbers upon goods receipt. However, this means the serial numbers assigned to the refurbishment order will no longer be consistent with the actual stock status of the serialized materials. This may cause confusion when there are follow-on operations with movements for the main rework material after the subcontracting operation that requires the serial number assignment during the goods movements as well. This is not allowed by default by the system so you can override this logic using this BAdI.
- BAdI ***Copy Customer-Specific Data to Purchase Requisition Text*** **BADI_DIAD_SUBCON_1** which you use to add further information to the item text in the purchase requisition has been enhanced to handle refurbishment orders.
- BAdI ***Trigger Workflows During Unplanned Material Exchange*** **BADI_ROTSUB_WF** which you can use to trigger workflows in a customer-specific way in unplanned material exchange (UME) scenarios. The BAdI is called in the following cases:
  - If there is an unplanned material exchange for an item of a subcontracting purchase order.
  - If there is an unplanned material exchange at the goods receipt for a refurbishment order which has got at least one external operation.

See also

Release Note **Refurbishment and Subcontracting 2**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** ***Industries in SAP ERP -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance, Repair, and Overhaul -> Maintenance and Service Processing -> Subcontracting for MRO Processes.***

LOG_EAM_ROTSUB_2: Improvements to Conversion of Planned Order (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, Industry Extension ***Discrete Industries and Mill Products*** (ECC-DIMP 605), business function ***Refurbishment and Subcontracting 2*** (LOG_EAM_ROTSUB_2), improvements have been made to the conversion of planned orders.

- Converting planned order to refurbishment order (**MD04**)
  Spare parts can be repaired or refurbished in an inhouse workshop by creating a refurbishment order. It was already possible to create a refurbishment order from the stock requirement list. It has been enhanced so you can:
  - Select serial numbers during the conversion and transfer them to the refurbishment order.
    Note, that you cannot transfer serial numbers to upgrade orders.
  - Select stock information for a non-serialized part that is transferred to the repairable part of the component.

  There are new screen elements ***Stock*** and ***SerNo.*** on screen SAPLM61R (9000) .
- Converting planned order to purchase requisition for subcontracted repairs (**MD14**)
  Spare parts can be repaired or refurbished by a subcontractor. The subcontracting purchase requisition for a repair can already be used during the conversion. It has been enhanced so you can:
  - Select stock information for a non-serialized part that is transferred to the purchase requisition document.
  - Select serial numbers during the conversion and transfer them to the subcontracting purchase requisition.
- Creating purchase requisitions from material requirements planning (MRP)
  Now, subcontracting purchase requisitions for repair can now be created during the MRP run.

Effects on Customizing

The new BAdI: Stock Information for converting planned orders **BADI_ROTSUB_STOCK** is available

See also

Release Note

Refurbishment and Subcontracting 2

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp -> *SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> Industries in SAP ERP -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance, Repair, and Overhaul -> Maintenance and Service Processing -> Subcontracting for MRO Processes.***

LOG_EAM_ROTSUB_2: Stock Determination in Maintenance Order (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, Industry Extension ***Discrete Industries and Mill Products*** (ECC-DIMP 605), business function ***Refurbishment and Subcontracting 2*** (LOG_EAM_ROTSUB_2), new improved stock determination functions are available that allow the planner to reexamine the stock situation between order creation and order release, if necessary. Previously, the stock determination function worked only during the creation of the maintenance or service order.

Effects on Existing Data

There is a new button ***Carry Out Stock Det.*** (BTN_STDE) on the ***Component Overview*** screen.

Effects on Customizing

You must create a stock determination group and rule and stock determination strategies in Customizing for ***Plant Maintenance and Customer Service*** under ***Maintenance and Service Processing -> Maintenance and Service Orders -> Stock Determination in PM/CS Orders -> Maintain Strategies for PM/CS Stock Determination***.

See also

Release Note **Refurbishment and Subcontracting 2**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp -> *SAP ERP Enhancement Packages -> ERP Central Component Enhancement Package 5 -> Industries in SAP ERP -> SAP Discrete Industries and Mill Products -> SAP for Aerospace & Defense -> Maintenance, Repair, and Overhaul -> Maintenance and Service Processing -> Subcontracting for MRO Processes.***

Business Function EAM: Shift Factors for Multiple Counter Plans

LOG_EAM_SHIFTFACTORS: Shift Factors for Multiple Counter Plans (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (SAP-APPL 605), business function ***Shift Factors for Multiple Counter Plans*** (LOG_EAM_SHIFTFACTORS), multiple counter plans have been enhanced by shift factors and tolerance functions. Previously, they were only available for single cycle plans and strategy plans.

Effects on Customizing

The BAdI **IPRM_MCP_SCHE_CHANGE** has been enhanced with the methods CHECK_SHIFT_ALLOWED and INIT_SHIFT_FACTORS.

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Customer Service (CS) -> Service Agreements -> Maintenance Planning (CS-AG/PM-PRM-MP) -> Scheduling -> Scheduling Parameters -> Shift Factor*** and ***Tolerance***

Business Function Simplified Management of EAM Functions

LOG_EAM_SIMPLICITY: Business Function Simplified Management of EAM Functions (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA_APPL 605)***, you can use the business function ***Simplified Management of EAM Functions***. This business function allows you to use two business packages for the daily work of maintenance workers. This gives you the flexibility to tailor your maintenance processes to suit the planned and unplanned activities of maintenance workers, making it easier for them to access and process stock data.

For more information, see the following release notes:

- **Business Package for Maintenance Worker**
- **Business Package for Generic EAM Functions**

See also

SAP Library at **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Plant Maintenance***.

LOG_EAM_SIMPLICITY: Business Package for Maintenance Worker (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function LOG_EAM_SIMPLICITY***, you can use the ***Business Package for Maintenance Worker*** with the "maintenance worker" role. This gives you the flexibility to tailor your maintenance processes to suit the planned and unplanned activities of maintenance workers, making it easier for them to access stock data and carry out their daily work.

You can use the functions of the business package in different ways:

- SAP NetWeaver Portal (with portal role)
- SAP NetWeaver Business Client for HTML (with PFCG role)
- SAP NetWeaver Business Client (with portal role and PFCG role)

The following worksets are available:

- The ***Overview*** workset
  The overview enables the maintenance worker to access the job list, confirmations, information center, and useful links.
- The ***Job List*** workset
  In the job list, maintenance workers can display a list of the jobs for which they are responsible. You can display the job card for the job, display additional information, or start processing of the job. The person responsible for an area can display all the jobs to be performed in his or her team, and can distribute these jobs to the available employees.
- The ***Confirmation*** workset
  When a job is completed, maintenance workers can confirm the time spent and material consumed, and enter counter readings if required. If further jobs arise from the processing of jobs, they can create a notification for this directly. They can also react to unforeseen problems by using the confirmation for unplanned jobs.
- The ***Information Center*** workset
  The information center is a central point of access for all asset-related information. Here, you can display your list of favorites and the objects that you last accessed. In addition, an easy to use search function is available, and you have direct access to Asset Viewer, a display tool that enables simple navigation through complex object relationships.

Under ***Additional Services***, this business package contains further functions that maintenance workers can use in their daily work, such as display, create, and change notifications, display technical objects, display measurement documents, and display measuring points. Some of these functions can also be called directly from other applications, for example, from the job list or Asset Viewer. Under ***Useful Links***, you can insert links that are useful for the maintenance worker.

Business Context Viewer (BCV) is integrated in this business package. For more information, see **/BCV/MAIN: Business Function FND, Business Context Viewer – Main Application (New)**.

NOTE

BCV is licensed as part of the SAP Collaborative Product Development license. You need this license in order to use BCV content with this business package.

Effects on Customizing

Define your settings in Customizing for ***Plant Maintenance and Customer Service*** -> ***Maintenance Roles*** -> ***Maintenance Worker***.

See also

SAP Library at **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Plant Maintenance***.

LOG_EAM_SIMPLICITY: Business Package for Generic EAM Functions (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function ***Simplified Management of EAM Functions*** (LOG_EAM_SIMPLICITY), new portal content is available for managing master data in the Plant Maintenance (PM) application component. If you want to access this content, you must install the Business Package for Generic EAM Functions.

The Business Package for EAM Generic Functions is based on the standards of SAP NetWeaver Business Client and SAP NetWeaver Portal. Object Instance Floorplans (OIFs) provide a standardized user interface that supports user activities in relation to master data management and can be used as the basis for creating customer-specific roles.

OIFs are available for the following business objects:

- Technical objects (change, create, display)
- Object networks (change, create, display)
- Measuring points (change, create, display)
- Measurement documents (create, display)
- Maintenance task lists (display)
- Maintenance notifications (change, create, display)
- Maintenance plans (display)
- Maintenance items (display)
- Maintenance orders (display)
- Linear reference patterns (change, create, display)

Additional display functions are also available for objects:

- View object in the Asset Viewer (possible for all object types except maintenance plan and linear reference pattern)
  The Asset Viewer is a display tool that enables simple navigation through complex object relationships.
- View additional business content and analytical information from Business Context Viewer (BCV)
  Business content is available for technical objects, maintenance order, and maintenance notifications.
  For this function, the business function ***FND, Business Context Viewer Main Application*** (/BCV/Main) must be activated. For more information, see release note**/BCV/MAIN: FND, Business Context Viewer Main Application (New)**.
  Note
  BCV is licensed as part of the SAP Collaborative Product Development license. You need this license in order to use BCV content with this business package.

The Business Package for EAM Generic Functions also delivers two sets of personal object worklists (POWLs) for accessing favorite, recently accessed, and recently changed objects.

The ***My Objects*** set of POWLs contains all available object types (excluding linear reference patterns and object networks). From these POWLs, you have various

navigation options depending on the selected object. You can navigate to the Asset Viewer, and the relevant Web Dynpro application and backend transaction (in display mode). Users can also create personalized lists based on these POWLs by filtering by object type, for example "My Notifications".

The ***Object Networks*** set of POWLs contains the object type "object network" only. From these POWLs, you can navigate to the corresponding Web Dynpro application in both display and edit mode.

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages*** -> ***ERP Central Component Enhancement Package 5*** -> ***SAP ERP Cross-Application Functions*** -> ***Roles*** > ***Worksets for Reuse in Roles*** -> ***Business Package for Generic EAM Functions***.

Business Function Takeover/Handover of Technical Objects Cont. Improvements

LOG_EAM_TOHO_2: Business Function Takeover/Handover Improvements (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0***, (EA-APPL 605), business function ***Takeover/Handover Improvements*** (LOG_EAM_TOHO_2), the following new functions are available:

- **Update of Non-BOM Header Equipment**
- **Improvements for Material Number Update**
- **Long Material Numbers**
- **Additional Customer Checks**
- **Improvements in Status Management**
- **Improvements for Measuring Points**
- **Multiple Serial Numbers**
- **Improvements in BAPI Message Handling**
- Enhanced functions for expanding/collapsing the technical object hierarchy
  You can now expand and collapse the hierarchy either by one level at a time or completely. Note, that you may encounter performance problems if the hierarchy contains a large number of objects.
- Possibility to select the maintenance plans to be copied when using copy references to create maintenance plans. On the ***Create Maintenance Plan*** tab page, when you choose ***Create*** a popup appears where you can select the maintenance plans you want to copy. Previously, all the maintenance plans for a copy reference object were copied.
- Restart of maintenance plans
  Previously you could only activate, deactivate, and schedule maintenance plans. You can now also restart them. There is additional button ***Restart MP*** on the ***Schedule MP*** tab page.
- Enablement of unique item identifiers (UII) to uniquely identify technical objects through integration of IUID.
- New program 'RIDELPHIN' for reorganizing of application data (relevant for system administrators). You can reorganize the data created:
  - During takeover in table PHINH ,PHINT and PHIN_MSG.
  - During handover in table PHINH
- Data inheritance
  During technical object creation, particular fields of the technical object are filled by one of the following, depending on the data origin flag:
  - Parent object
  - Copy reference object
  - Individual (field to be filled manually)

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

LOG_EAM_TOHO_2: Update of Non-BOM Header Equipment (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0***, (EA-APPL 605), business function ***Takeover/Handover Improvements*** (LOG_EAM_TOHO_2), you can update equipment that are not BOM headers.

Previously, existing equipment for which equipment BOM header data was not entered in database tables EQST and STKO could not be converted into equipment BOM headers using the update function within the takeover update process, even if BOM items were assigned to the equipment. This led to the situation that the subordinate BOM items (either inserted manually or coming from the XML file) could not be created.

Existing equipment which are not BOM headers can now be converted into equipment BOM headers by choosing ***Update*** during the takeover update process, even if BOM items are assigned to the equipment in the working area. For example, if a new BOM item is manually inserted beneath a piece of equipment which is not a BOM header, the superordinate equipment becomes the BOM header upon its creation or update.

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

LOG_EAM_TOHO_2: Material Number Update (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (EA-APPL 605), business function *Takeover/Handover Improvements* (LOG_EAM_TOHO_2), the following new function is available for material number update. In a subcontracting scenario, a subcontractor may exchange the material number of a serial number for an existing piece of equipment (a material number upgrade), but the equipment (physical equipment) remains the same. During the takeover process, the application can now recognize that only the material number has been exchanged and triggers an update of the piece of equipment instead of identifying the object as a new piece of equipment which is to be created. To do this, the takeover file must contain the information about the previous material number. For example:

1. Handover of equipment ‘123’, material ‘A’, serial number ‘S1’
2. Subcontractor changes material number from ‘A’ to ‘B’
3. Handover at subcontractor's site: handover file (XML file) contains the information equipment ‘888’ (subcontractor’s own ID), previous material number ‘A’, ‘external’ material number ‘B’, serial number ‘S1’
4. Takeover identifies equipment ‘123’ by searching with material ‘A’ and serial number ‘S1’, so no new equipment is created.

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

LOG_EAM_TOHO_2: Business Function Takeover/Handover Improvements (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (EA-APPL 605), business function *Takeover/Handover Improvements* (LOG_EAM_TOHO_2), long material numbers are supported.

- During handover, you can now send 40-digit material numbers in the XML file.
- The takeover application can now handle 40-digit material numbers in the XML file.
- The takeover application enables you to do the mapping during upload using customer own logic by implementing BAdI BADI_PHIN_DATA_PREPARE, or by manual maintenance of this data after uploading the XML file.

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

LOG_EAM_TOHO_2: Additional Customer Checks (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (EA-APPL 605), business function *Takeover/Handover Improvements* (LOG_EAM_TOHO_2), there is a new BAdI 'BADI_PHIN_CHECK_TOP_OBJECT' that enables you to implement further additional checks to guarantee the technical object is ready for handover or takeover. When an existing technical object is specified for handover or takeover (when loading current state/template), the system performs some checks, for example if the technical object is the top hierarchy node.

Effects on Customizing

The new BAdI **BADI_PHIN_CHECK_TOP_OBJECT** is available.

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

LOG_EAM_TOHO_2: Status Management Improvements (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (EA-APPL 605), business function *Takeover/Handover Improvements* (LOG_EAM_TOHO_2), status management has been simplified:

- The column ***Object Status*** is replaced by a column called ***User Action***. This has five possible statuses.
- The ***Status*** buttons that were formerly on the ***Object Status*** column are now on the new ***Consistency*** column.
- By choosing the ***Status*** button on the new ***Consistency*** column (displayed by default), you come to the ***Detailed Technical Object Status Overview*** popup. Handling of detailed status has been simplified for the user (only two statuses for the technical object; 'consistency' and 'object in system')
- The column ***Hierarchical Status*** has been moved to the main navigation hierarchy on the left hand side.
- A new column ***Type*** contains an icon displaying the technical object type.

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

LOG_EAM_TOHO_2: Enhancements for Measuring Points (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (EA-APPL 605), business function *Takeover/Handover Improvements* (LOG_EAM_TOHO_2), there are new enhancements for measuring points. When technical objects are deactivated during handover or re(activated) during takeover, you can now simultaneously activate/deactivate the measuring points assigned to the technical objects (functional locations and equipment).

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

.

LOG_EAM_TOHO_2: Specify Technical Objects Using Multiple Serial Numbers (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (EA-APPL 605), business function *Takeover/Handover Improvements* (LOG_EAM_TOHO_2), you can specify technical objects using multiple serial numbers. You can now use multiple serial numbers to specify technical objects on the handover/takeover (current state) selection screen in the same way as equipment. Until now, you could only specify a single serial number.

There are new fields ***Serial Number***, ***Material*** and ***UII*** in the ***Specify Technical Object*** screen area of the handover/takeover selection screen.

On the screens for selecting takeover/handover profiles, there are now only two choices under ***Basic Settings***:

- ***Functional Location***
- ***Equipment/Serial Numbers***

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

LOG_EAM_TOHO_2: Improvements in BAPI Message Handling

Use

As of SAP enhancement package 5 for SAP ERP 6.0, (EA-APPL 605), business function *Takeover/Handover Improvements* (LOG_EAM_TOHO_2), the handling of BAPI messages has been improved. Previously, even if a BAPI ran successfully, it would still return many information messages. You now have more options for handling these messages. There is a new indicator ***Basic Log Detail Level*** in the ***Select Takeover Profile*** area of the takeover selection screen. If you set this indicator the messages are handled as follows:

- If a BAPI ran successfully, only one message is returned stating that the BAPI has run successfully.
- If the BAPI did not run successfully, only error messages coming from the BAPI (without success or information messages) are returned.

See also

Release note **Takeover/Handover of Technical Objects Improvements**

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com** under ***SAP ERP Central Component -> Logistics -> Plant Maintenance (PM) -> Equipment and Technical Objects (PM-EQM) -> Technical Objects (CS-BD/PM-EQM) -> Takeover/Handover of Technical Objects***.

Business Function EAM: Time Zone Support (Part 2)

LOG_EAM_TZS_2: Business Function EAM: Time Zone Support (Enhanced)

Use

As of ***SAP Enhancement Package 5 for SAP ERP 6.0 (EA_APPL 605)***, you can use the business function LOG_EAM_TZS_2.

This enables you to implement time zone support for additional objects and process these objects in any time zone you want. This is useful if you have processes that run across time zones.

Time zone support is now possible for the following additional objects:

- Pieces of equipment
- Functional locations
- Revisions
- Structure lists
- Multilevel lists
- Serial number history

Effects on Existing Data

When you activate this function in Customizing, all existing times are interpreted as times in the system time zone, and converted to the reference time zone of the user. This means that the times on the user interface may change by up to 24 hours. There is no conversion of data. The conversion takes place only on the user interface.

Effects on Customizing

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

See also

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

Business Function WCM: Stepwise Tagging and Usage of Work Permits

LOG_EAM_WCM_1: Stepwise Tagging and Work Permit Management (New)

Use

As of ***SAP Enhancement Package 5 for SAP ERP 6.0 (EA_APPL 605)***, you can use the business function LOG_EAM_WCM_1. This business function allows you to use new features for processes in work clearance management.

Stepwise Tagging

- You can assign an **Operational WCD** to a **WCM-relevant operation**.
- You can assign an operational step to a WCM-relevant operation.
- You can split a work clearance document into operational steps. The status of these operational steps is set in the same way as for the work clearance document header. You therefore have the option of stepwise tagging for a work clearance document.

Work Permit Management

- The user interface is now more flexible, enabling easy adaptation of the screens for different industry sectors and customers:
  - Free choice of terms for individual WCM objects
  - Open layout of screen for individual WCM objects
- Additional screen elements, such as ***Work***, ***Requirements***, and ***Validity*** are provided.
- List processing has been enhanced with additional functions, so that you can execute a range of work steps from list processing, such as creating, changing, or copying work permits.

See also

SAP Library at **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Plant Maintenance***.

EH&S Compliance Management

EH&S Continuous Improvement

LOG_EHS_CI_2: Business Function EH&S Continuous Improvement (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605)***, the Business Function ***EH&S Continuous Improvement*** is available. This business function contains changes and enhancements for the ***Environment, Health and Safety*** component.

For more information, refer to the following release notes:

Occupational Health (New)

Product Safety (New)

Substance Volume Tracking (New)

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Occupational Health (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), Business Function EH&S Continuous Improvement (LOG_EHS_CI_2)***, the following new functions are available in the ***Occupational Health*** component:

- You can assign questionnaires to specific examination types.
  In the transaction **Edit Health Surveillance Protocols**, you can specify the questionnaires relevant to each health surveillance protocol for each examination type.
  In the transactions **Edit Medical Services** and **Planning Cockpit**, exactly those questionnaires are determined that were assigned to the corresponding health surveillance protocols based on the examination type.
- There are many ways to display the list of the last called appointment calendars in the planning cockpit. For this purpose, the environment parameter **OH_MEDCAL_FAV_AMOUNT** is provided. If the environment parameter does not contain an entry, the five most recently opened calendars are displayed. Otherwise, the value of the environment parameter applies.
- In the transaction **Planning Cockpit**, you can specify an external or internal person as physician for an appointment in the medical service.
- You can assign a physician to an appointment calendar. To do this, the new transaction **Assignment of Physician to Appointment Calendar** is provided. If such an assignment exists, the corresponding physician is automatically entered as the practicing physician for a newly scheduled appointment in the planning cockpit.
- In the medical service, an improved import option is available, which makes it easier than before to import examination results from the laboratory or from an examination device.
  The Customizing activity **Specify Examination Categories** provides the fields **DB Table for Import**, **Table Type for Imp.**, **Import Struct. Name**, and **Separator**. You can use these fields to enter the generic import data for each examination category. To obtain customer-specific examination results, you have to create your own objects and enter these here.
  The new BAdI BAdI_EHSH_EXAM_RES_IMPORT allows you to make additional functions (such as conversion routines) available for importing examination results.

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Product Safety (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), Business Function EH&S Continuous Improvement (LOG_EHS_CI_2),*** the following new functions are available in the ***Product Safety*** component:

- If you navigate from the workbench to report management to display specification reports, reports with the status ***Historical***, ***Archived***, or ***Archiving Is Running*** are not displayed.
- The standard property tree STANDARD contains the following new value assignment types:
  - SAP_EHS_1012_025 Exact Composition Based on Starting Material.
  - SAP_EHS_1013_058 Oxidation/Reduction Potential
  - SAP_EHS_1013_059 Refractive Index
  - SAP_EHS_1013_061 Odor Threshold
  - SAP_EHS_1017_021 Assessment PBT
  - SAP_EHS_1018_013 Assessment Ecotoxicity
  - SAP_EHS_1018_014 Sediment Toxicity
  - SAP_EHS_1019_028 Assessment Toxicology
  - SAP_EHS_1023_077 Predicted No-Effect Concentration (PNEC)
  - SAP_EHS_1023_078 Derived No-Effect Level (DNEL)

  GHS Regulation
  - SAP_EHS_1019_029 Assessment STOT - Single Exposure
  - SAP_EHS_1019_029 Assessment STOT - Single Exposure
  - SAP_EHS_1019_030 Assessment STOT - Repeated Exposure
  - SAP_EHS_1019_030 Assessment STOT - Repeated Exposure
  - SAP_EHS_1023_076 Specific Concentration Limits (GHS)
  - SAP_EHS_1023_088 GHS Classification (General)
  - SAP_EHS_1023_089 GHS Classification (EU)
  - SAP_EHS_1023_090 GHS Classification (NA)
  - SAP_EHS_1023_091 GHS Classification (A/P)
  - SAP_EHS_1023_092 GHS Classification (LA)
  - SAP_EHS_1023_093 GHS Labeling (General)
  - SAP_EHS_1023_094 GHS Labeling (EU)
  - SAP_EHS_1023_095 GHS Labeling (NA)
  - SAP_EHS_1023_096 GHS Labeling (A/P)
  - SAP_EHS_1023_097 GHS Labeling (LA)

  EU REACH Regulation
  - SAP_EHS_1011_012 Specific Use(s) of End Products

- SAP_EHS_1012_024 Legal Composition
- SAP_EHS_1023_080 REACH Candidate List
- SAP_EHS_1023_080 REACH Candidate List
- SAP_EHS_1023_083 REACH Chemical Safety Assessment
- SAP_EHS_1023_083 REACH Chemical Safety Assessment

EU REACH Regulation – REACH eSDS Annex

- SAP_EHS_REACH_ESDS_ANNEX REACH: eSDS Annex
- SAP_EHS_1027_001 Use and Exposure Scenario
- SAP_EHS_1027_002 Operational Conditions: Human
- SAP_EHS_1027_004 Operational Conditions: General
- SAP_EHS_1027_005 Physical Form (Application)
- SAP_EHS_1027_006 Application Form (Value)
- SAP_EHS_1027_007 Conc. Substance in Preparation/Article
- SAP_EHS_1027_008 Amount Used
- SAP_EHS_1027_009 Other Operational Conditions
- SAP_EHS_1027_012 RMM: Environment
- SAP_EHS_1027_013 Waste-Related Measures
- SAP_EHS_1027_014 Method and Parameters
- SAP_EHS_1027_015 Guidance to Downstream Users
- SAP_EHS_1027_016 Critical Substances (REACH eSDS Annex)

Legal Regulation for Air Protection

- SAP_EHS_1023_081 Ozone-Depleting Potential
- SAP_EHS_1023_082 Clean Air Act (US)
- SAP_EHS_1023_082 Clean Air Act (US)

EU Detergents Regulation

- SAP_EHS_1012_023 Ingredients f. Detergents Datasheet (EU)
- SAP_EHS_1023_079 Detergents Labeling (EU)

o The following value assignment types contain additional or modified characteristics:

- SAP_EHS_1011_002 Other Information
- SAP_EHS_1011_010 Use of Substance/Preparation
- SAP_EHS_1013_006 Relative Density
- SAP_EHS_1013_016 Solubility in Water
- SAP_EHS_1013_019 pH
- SAP_EHS_1013_026 Partition Coefficient n-Octanol/Water
- SAP_EHS_1013_032 Evaporation Rate
- SAP_EHS_1013_037 Molar Mass
- SAP_EHS_1013_061 Odor Threshold
- SAP_EHS_1014_012 Upper Explosion/Ignition Limit

- SAP_EHS_1014_013 Lower Explosion/Ignition Limit
- SAP_EHS_1014_032 Minimum Ignition Energy
- SAP_EHS_1014_032 Minimum Ignition Energy
- SAP_EHS_1015_011 Occupational Disease
- SAP_EHS_1016_006 Environmental Precautions
- SAP_EHS_1016_012 Respiratory Protection
- SAP_EHS_1016_013 Hand Protection
- SAP_EHS_1017_004 Biodegradation
- SAP_EHS_1017_007 Biological Oxygen Demand (BOD)
- SAP_EHS_1017_008 Chemical Oxygen Demand (COD)
- SAP_EHS_1017_012 Dissolved Organic Carbon (DOC)
- SAP_EHS_1017_015 Bioaccumulation
- SAP_EHS_1017_017 Transport Between Environm. Compartments
- SAP_EHS_1017_020 Adsorption Organ. Bound Halogen (AOX)
- SAP_EHS_1018_001 Acute and Prolonged Toxicity to Fish
- SAP_EHS_1018_002 Acute Toxicity to Aquatic Invertebrates
- SAP_EHS_1018_003 Toxicity to Aquatic Plants
- SAP_EHS_1018_004 Toxicity to Microorganisms
- SAP_EHS_1018_005 Chronic Toxicity to Fish
- SAP_EHS_1018_006 Chronic Toxicity to Aquat. Invertebrates
- SAP_EHS_1018_007 Toxicity to Soil-Dwelling Organisms
- SAP_EHS_1018_008 Toxicity to Terrestrial Plants
- SAP_EHS_1018_009 Toxicity to Above-Ground Organisms
- SAP_EHS_1019_001 Acute Oral Toxicity
- SAP_EHS_1019_002 Acute Inhalation Toxicity
- SAP_EHS_1019_003 Acute Dermal Toxicity
- SAP_EHS_1019_004 Acute Toxicity Other Routes
- SAP_EHS_1019_008 Repeated Dose Toxicity
- SAP_EHS_1019_008 Repeated Dose Toxicity
- SAP_EHS_1023_007 CMR Classification (EU)
- SAP_EHS_1023_007 CMR Classification (EU)
- SAP_EHS_1023_027 Hazard Information Reporting (RTK) (US)

GHS Regulation

- SAP_EHS_1023_075 M-Factor

EU REACH Regulation

- SAP_EHS_1017_021 Assessment PBT

Substance Volume Tracking

- SAP_EHS_1023_057 Registration (Company-Specific)
- SAP_EHS_1026_002 Produced Quantities

- SAP_EHS_1026_003 Consumed Quantities
- SAP_EHS_1026_004 Purchased Quantities
- SAP_EHS_1026_005 Sold Quantities

o The property name of the following value assignment types has changed:

- SAP_EHS_1027_001 Use and Exposure Scenario
- SAP_EHS_1023_043 GHS Classification (List Data)
- SAP_EHS_1023_044 GHS Labeling (List Data)

EU REACH Regulation – REACH eSDS Annex

- SAP_EHS_1027_003 Frequency and Duration of Use: Environ.
- SAP_EHS_1027_010 RMM: Worker
- SAP_EHS_1027_011 RMM: Consumer

o The help text for the following value assignment type has changed:

- SAP_EHS_1023_065 Fire Service Law (JP)

o The following value assignment type now has the value assignment category C (composition):

- SAP_EHS_1023_011 Major Accident Hazards (EU)

o The following value assignment type has been moved within the STANDARD property tree:

- SAP_EHS_1023_041 VOC (from the ***Europe*** node to the ***International*** node)

o The following value assignment type has been moved to the OBSOLETE property tree:

- SAP_EHS_1023_013 Poison List Switzerland (CH)

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Substance Volume Tracking (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), Business Function EH&S Continuous Improvement (LOG_EHS_CI_2)***, a test function for confirmed quantities is available in the ***Substance Volume Tracking*** component.

In **Substance Volume Tracking: Monitoring** transaction, you can display detailed data for confirmed quantities with a reference to the corresponding material documents or production and process orders. By doing so, you can carry out a more accurate check of the quantities tracked in substance volume tracking during the implementation phase.

To ensure that system performance is adequate and prevent the database tables from overflowing, the detailed data is deleted automatically after 90 days.

You can implement the extensive test functions for confirmed quantities by means of an active enhancement implementation for the enhancement spot EHSPS_SPOT_SVT_TRACK_PROC or of the BAdI **Substance Volume Tracking (Tracking Process Enhancement)**. The BAdI BADI_EHSRC_TRACK_PROC is **not** shipped with an active implementation. However, it does have the corresponding example class CL_EXM_IM_EHSRC_TRACK_PROC, which implements the functions for the detailed data.

Once the BAdI implementation has been activated, you can use the following functions:

- Individual processing of confirmed quantities during data transfer
- Data transfer to the monitoring tables
- Call menu exit during volume monitoring

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Quality Management

Business Function Quality Management: Extensions in FMEA and Q-Notifications

OPS_QM_EXTENSION_2: Quality Management: Enhancements in FMEA and QM Notifications (Enhanced)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605)*** the business function OPS_QM_EXTENSION_2 is available.

For more information, see the following release notes:

- **Integration of FMEA and Quality Notifications**
- **User-Specific Settings for FMEA Type**
- **Digital Signature in FMEA**
- **Processing of System FMEAs**
- **Other Functions in the FMEA**
- **Integration of Quality Notification Processing in SAP SNC**
- **Print Notification Without Saving**
- **Display Related Notifications**

See also

SAP Library at **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Quality Management***.

OPS_QM_EXTENSION_2: Integration of FMEA and QM Notifications (Enhanced)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_EXTENSION_2***, Failure Mode and Effects Analysis (FMEA) is integrated with quality notifications. When you display a quality notification from the individual display or list display, you can check if there are any Failure Mode and Effects Analyses for the material for which a quality notification has been created:

- In the individual display, this option is in the action box.
- In the results list of the list display, there is a pushbutton for this function.

You can copy defect items, causes, and actions from a quality notification to an FMEA as defects, causes, and detection actions or preventive actions.

In the FMEA, the number of the quality notification from which the lower-level objects were copied is displayed as the reference on the ***Basic Data*** tab page.

Effects on Existing Data

There are no fundamental effects on the dataset.

Effects on Customizing

If you copy actions from a notification to the FMEA, they are copied in the standard system as detection actions. You can use the BADI_FMEA_ASSIGN_SUBOBJQN BAdI to override this.

OPS_QM_EXTENSION_2: User-Specific Settings for FMEA Type (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_EXTENSION_2***, you can predefine an FMEA type in the FMEA cockpit under user-specific settings. The system always proposes this FMEA type when you create an FMEA in the FMEA cockpit. You can change the proposed FMEA type. Once you have changed the FMEA type, you cannot change it again.

Effects on Existing Data

There are no fundamental effects on the dataset.

OPS_QM_EXTENSION_2: Digital Signature in FMEA (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_EXTENSION_2***, you can use the individual signature and **signature strategies** in Failure Mode and Effects Analysis (FMEA).

In the SAP system, the digital signature is supported by the Basis component ***Secure Store and Forward (SSF)***.

Effects on Customizing

Make the digital signature setting in Customizing for Failure Mode and Effects Analysis.

See also

SAP Library on SAP Help Portal **http://help.sap.com/erp** under ***Digital Signature in Failure Mode and Effects Analysis***

OPS_QM_EXTENSION_2: Processing of System FMEAs (Enhanced)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_EXTENSION_2***, the processing of system FMEAs is improved. The following improvements have been made:

Consistency Checks

The consistency checks in Failure Mode and Effects Analysis (FMEA) have been enhanced. You call the consistency checks for an FMEA via the context menu in the FMEA cockpit:

- When you choose ***Check Consistency***, the system now also checks whether the references from and to higher-level and lower-level FMEAs are consistent. If the system finds any inconsistencies, they are displayed in the application log. Also, you now have the option of displaying messages about inconsistencies with respect to references in the hierarchy view. From here, you can now also navigate forward and jump directly to the cause of the problem. To visualize the hierarchy view, the implementation of the BAdI BADI_PLM_AUDIT_STRUCTURE was enhanced.
- When you choose ***Check and Update***, the system checks inconsistencies and updates the FMEA on the basis of the results. This means, for example, that the system adds functions and defects for a higher-level or lower-level FMEA that were not yet included in the checked FMEA; or it deletes functions or defects that no longer exist. Then the system displays the changes it made in the application log.
- The background job PLM_FMEA_REMINDER_01 that you can schedule in the FMEA cockpit via ***Extras -> Schedule Notification*** was enhanced. It now also takes into account incomplete FMEA references in FMEAs and sends appropriate reminders to the selected persons.
  A new group box was introduced for this, which is only visible when you have selected FMEAs. This group box includes the radio button ***Check Consistency***. When you choose this button, another new group box appears with selection criteria to select the FMEAs you want to check. The job determines the persons to be notified as it did previously using selection criteria and now also directly using a user name, which you can specify in addition to partner roles, created by, and changed by.

Functions and Defects: "Not Relevant" Indicator

In the FMEA cockpit on the ***Basic Data*** tab page, there is a new indicator for functions and defects. It is only visible for functions and defects of higher-level or lower-level elements. It can be set only in the following situations:

- If the FMEA is in change mode
- If the function or defect is not yet referenced in the FMEA itself by a cause or an effect
- If a defect is not yet assigned an action

Setting the indicator has the following effects:

- The function or defect is not taken into account when calculating the risk priority number and the valuation fields are initialized and can no longer be changed.
- When the ***Check and Update*** function is executed, only those functions and

defects are considered for automatic deletion. Accordingly, only those functions and defects are viewed as inconsistent by the consistency check.

- It is not possible to use these functions and defects within the FMEA in causes or effects.

New Field "Valuation Decoupled from Reference"

By setting this indicator, you can specify that the valuation from the reference object is not taken into account but instead the local valuation, for example, from locally assigned actions. Using this indicator, it is also possible to toggle as required between a local valuation and a valuation resulting from a reference. This means, for example, you can toggle in a cause between the valuation originally taken from the reference and the valuation resulting from any assigned actions because the actions are retained even when the indicator is deselected. The indicator can be set for:

- Effects with a reference that result from the defect of a higher-level element
- Causes with a reference that result from the defect of a lower-level element

The following restrictions apply for the indicator:

- The indicator can only be set in change mode.
- The indicator is only visible for causes and effects that have a reference object.

Visualization Adapted in FMEA Cockpit

In the tree structure, higher-level elements are now displayed above the FMEA function list and lower-level elements are displayed below the FMEA function list.

Effects on Existing Data

There are no fundamental effects on the dataset.

You call the new function ***Check and Update*** via the context menu in the FMEA cockpit.

See also

SAP Library on SAP Help Portal **http://help.sap.com/erp** under ***Failure Mode and Effects Analysis***

OPS_QM_EXTENSION_2: Other Functions in the FMEA (Enhanced)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_EXTENSION_2***, Failure Mode and Effects Analysis (FMEA) has been enhanced to include a number of other functions:

Calculation of Risk Priority Number (RPN)

It is now possible to specify a flexible default value for the minimum result for the RPN of an FMEA in Customizing for the FMEA type.

Status Texts in Forms

In the FMEA print form ***System Form FMEA VDA 96*** the status texts for actions are now displayed in a VDA-compliant format (for the German automotive industry association).

Create FMEA with Template

If you create an FMEA with a template, you can now decide whether you want to copy the existing actions from the template to the new FMEA.

Effects on Existing Data

There are no fundamental effects on the dataset.

Effects on Customizing

You specify the default value for the minimum result for the calculation of the risk priority number in Customizing under **FMEA Types**.

See also

SAP Library on SAP Help Portal **http://help.sap.com/erp** under ***Failure Mode and Effects Analysis***

OPS_QM_EXTENSION_2: Integration of Quality Notification Processing in SAP SNC (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_EXTENSION_2***, there are two new notification types available for the integration of quality notifications in SAP SNC. Only these types of quality notifications are transferred between SAP SNC and SAP ERP:

- Q8 – Complaint Against the Vendor from Customer (Ext.)
  When a customer saves a new or changed quality notification in SAP ERP, the notification is automatically transferred to SAP SNC.
- Q9 – Complaint from the Vendor (Ext.)
  If a vendor publishes a new or changed quality notification in SAP SNC, it is transferred to SAP ERP and the system creates a quality notification of this type.

The service operations ***Maintain Notification Based on Quality Issue Notification*** and ***Notify of Quality Issue Notification*** are available for this. You can also use these service operations to ensure the data exchange between systems.

Note: The service only starts for a quality notification that has been created if the notification has been saved with status ***Outstanding***.

Effects on Existing Data

If you already use notification types Q8 and Q9 in your system, you must rename and adjust them accordingly before you activate the business function OPS_QM_EXTENSION2 ***Enhancements in FMEA and QM Notifications***. Otherwise the existing data is overwritten.

Effects on Customizing

So that the data can be transferred, the **number ranges**, **required fields**, and **codes** for notification types Q8 and Q9 in your SAP ERP back-end system must match those in the SAP Supply Network Collaboration (SNC) system. Make the respective settings in Customizing for ***Quality Management*** under ***Quality Notification -> Notification Creation***:

- To define the **number ranges**, choose ***Notification Creation*** -> ***Notification Type ->*** **Define Number Ranges**:
  Create an internal number range interval (group) that does not overlap with other number ranges for notification type Q8 and another for Q9. Do not set the ***Indicator for Internal or External Number Range***.
  Assign the respective notification type to the specified group.
  Under **Define Notification Types** make sure that the number range (group) is entered in the detailed data for notification types Q8 and Q9.
- To define the **required fields**, choose ***Notification Creation*** -> ***Notification Type ->*** **Define Screen Templates**:
  - Choose ***Field Selection: Reference Object Screens***.
    Under ***Goto -> Influencing***, choose the notification type for field name VIQMEL-QMART as the ***Influencing Field***.
    Choose ***Goto -> Influencing*** and enter Q8 in the ***Influencing Value*** field.
    Flag the following modifiable fields as required fields:
    - ***Material*** (RQM00-MATNR)
    - ***Plant for Material*** (RQM00-MAWERK)

Note: ***Plant*** is a required field for notification type Q8. SAP recommends that you define ***Plant*** as a required field for notification type Q9 as well.
Save your entries.

- Choose ***Field Selection: General Screens***.
  Under ***Goto -> Influencing***, choose the notification type for field name VIQMEL-QMART as the ***Influencing Field***.
  Choose ***Goto -> Influencing*** and enter Q8 in the ***Influencing Value*** field.
  Flag the following modifiable fields as required fields:
  - ***Description*** RIWO00-HEADKTXT
  - ***Priority*** VIQMEL-PRIOK
  Save your entries.
- Repeat the entire process for notification type Q9.

o In Customizing for ***Quality Notification***, choose the activity **Overview of Notification Type**.

- Select notification type Q8 and choose ***Notification Type -> Long Text Formatting*** in the dialog structure.
- Set the indicator for ***Log Row*** and for ***No Text Change***.
- Save your entries.
- Repeat the entire process for long text formatting for notification type Q9.

o To configure the mandatory partner for notification type Q8, in Customizing choose ***Notification Creation -> Partners ->*** **Define Partner Determination Procedures**:

- Choose ***Define Partner Determination Procedures*** and select ***Quality Management***.
- Choose ***Partner -> Change***.
- Create a partner determination procedure for the complaint and choose ***Functions in Determination Procedure***. Enter the following data:
  - ***Partner Function***: **VN** (vendor)
  - ***Partner mandat.***: yes
  - ***Unique***: yes
- Save your entries.
- In the same Customizing activity, ***Define Partner Determination Procedure***, choose activity ***Assign Partner Determination Procedure to Notification Type***.
- Assign the partner determination procedure you created to notification types Q8 and Q9.
- Save your entries.

o To define the **codes**, choose ***Notification Creation*** ->

- ***Notification Content ->*** **Maintain Catalogs**:
  Check if the existing catalogs meet your requirements, such as catalog 9 (defect types) and catalog D (coding) with the respective code groups and their codes.
- ***Notification Content ->*** **Define Catalog Profile**:
  In this activity you define, for example, which catalogs and code groups from each notification catalog are available for a catalog profile.
- ***Notification Content ->*** **Catalogs and Catalog Profiles for**

Notification Type :
You assign the catalog profile and catalogs in detail for notification type Q8 and Q9.

See also

For more information, see SAP Note 1323484 and SAP Library on SAP Help Portal at **http://help.sap.com/** -> ***SOA*** (Documentation Service Oriented Architecture).

OPS_QM_EXTENSION_2: Print Notification Without Saving (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (SAP_APPL 605), business function OPS_QM_EXTENSION_2***, you can print a quality notification without having to exit the change or display transaction.

This saves time because information is often sent out to customers or vendors directly from the notification, and you can use a test printout to check that the content and layout of the information is correct before sending it.

Effects on Existing Data

Existing data is not affected.

You can activate this function by means of the user default value ***Print Notification Shop Papers Without Saving*** under ***Extras -> Settings -> Ctrl/Default Values***.

If you activate the user default value, the ***Print Without Saving*** pushbutton is also displayed in the ***Select Shop Papers*** dialog box. This allows you to print the notification immediately without having to exit the change or display transaction.

Also if you print the notification using the ***Print*** pushbutton in the toolbar, the notification is printed immediately without you having to exit the transaction.

See also

SAP Library on SAP Help Portal **http://help.sap.com/erp** under ***Printing a Quality Notification*** and ***Printing a Quality Notification Item***

OPS_QM_EXTENSION_2: Display Related Notifications (Enhanced)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (SAP-APPL 605), business function OPS_QM_EXTENSION_2***, the search for related notifications was enhanced to include additional reference objects:

- Batch, defect type, and defect location when processing a notification
- Batch when editing the usage decision for the inspection lot, when recording defects, and recording results

Effects on Existing Data

There are no fundamental effects on the dataset.

The key figures determined in the ***Related Notifications*** dialog box are now displayed as an ALV Grid Control.

The ***Choose Items*** pushbutton is new and allows you to select notification items individually.

You can display the details of the notifications or notification items by double-clicking a key figure. These details are now displayed in the worklists for the notification or item.

Effects on Customizing

In Customizing, specify which selection criteria you want to search with under ***Quality Notifications -> Information System -> Activate Reference to Related Notifications***. The following selection criteria are new:

- Notifications for Material/Batch
- Notifications for Material/Batch/Customer or Notifications for Material/Batch/Vendor
- Notifications for Defect Type Code Group and Notifications for Defect Type Code
- Notifications for Defect Location Code Group and Notifications for Defect Location Code

With the BAdI BADI_QQM_QM08_SALV_DISPLAY, you can determine and display other key figures for any criteria of a quality notification.

See also

SAP Library on SAP Help Portal **http://help.sap.com/erp** under ***Displaying Related Notifications***

Business Function Quality Management: Integration of Inspection Plans

OPS_QM_PLAN_INTEGRAT: Quality Management: Inspection Plan Integration (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605)*** the business function OPS_QM_PLAN_INTEGRAT is available. With this business function you can use enhancements for processes in Quality Management. For more information, see the following release notes:

- **Integration of Inspection Plans in EH&S**
- **Improved Integration of QM with Variant Configuration**

See also

SAP Library at **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Quality Management***.

OPS_QM_PLAN_INTEGRAT: Integration of Inspection Plans in EH&S (New)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_PLAN_INTEGRAT***, the creation and synchronization of inspection plans from the specification database in the component ***Environment, Health and Safety (EHS)*** is possible. Other external data sources can be determined and added.

The following new transactions are available:

- Create Master Inspection Characteristics from External Source (QS21S)
- Create Inspection Plan from External Source (QP21S)
- Update Inspection Plan with Data from External Source (QPCG)

Effects on Existing Data

There are no fundamental effects on the dataset.

See also

SAP Library on SAP Help Portal **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Quality Management***.

OPS_QM_PLAN_INTEGRAT: Improved Integration of QM with Variant Configuration (Enhanced)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605), business function OPS_QM_PLAN_INTEGRAT***, the integration of QM with Variant Configuration is improved.

If a sales order or production order contains a variant configuration with quality-related values without a value range, the inspection characteristic inherits the upper and lower tolerance value from the characteristic value in the variant configuration. As a result, even small differences can lead to the inspection characteristic being rejected.

To be able to work with realistic tolerance values, you can use the specification determination rules supplied by SAP in the master inspection characteristic. With the BAdI BADI_QASDR_MASTERCHAR_TO_INSP, you can implement and use your own calculation logic for upper and lower tolerance limits, depending on the characteristic values of the variant configuration.

Effects on Existing Data

There are no fundamental effects on the dataset.

Effects on Customizing

Make your settings under:

- ***Quality Management -> Quality Planning -> Basic Data -> Inspection Characteristic, Inspection Method -> Define Specification Determination Rule***
- ***Quality Management -> Environment -> Tools -> Business Add-Ins -> Quality Planning -> Business Add-In for Specification Determination Rule***

See also

SAP Library on SAP Help Portal **http://help.sap.com/erp** -> ***ERP Central Component*** -> ***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*** -> ***Logistics*** -> ***Quality Management***.

General

Business Function REA, Environmental Product Reporting and Lean Data Entry

J_7L_REA_SUSTAIN: REA, Environmental Product Reporting and Lean Data

Entry (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA_APPL 605), the business function *Recycling Administration (REA), Environmental Product Reporting and Lean Data Entry* (J_7L_REA_SUSTAIN) is available. With this business function, you can use various new functions for the Recycling Administration process.

For more information, see the following release notes:

- **J_7L_REA_SUSTAIN: Packaging Sustainability Reporting (New)**
  With the new Recycling Administration sustainability report for packaging information, you can create detailed lists of important REA data according to the type and quantity of each of the packaging materials used and the articles delivered, and make them available to third parties.
- **J_7L_REA_SUSTAIN: Lean Data Entry (New)**
  On the basis of a Web-based interface (ABAP Web Dynpro) and four REA-specific portal roles, you can perform the classic tasks for entering master data in REA using optimized work steps.
- **J_7L_REA_SUSTAIN: Legal Enhancements for North America (New)**
  Implementation of the legal requirements for reporting for packaging, batteries, and electrical and electronic devices in the U.S. state of ***California*** and the Canadian provinces ***British Columbia*** and ***Ontario***. In addition, a new recovery document type is available when creating declarations for these regions, which require that you declare recovered recycling quantities.

See also

SAP Library for SAP ERP on SAP Help Portal at **http://help.sap.com/erp** -> ***SAP ERP Enhancement Packages*** -> ***ERP Central Component Enhancement Package 5*** -> ***Business Functions*** -> ***Business Functions in SAP ERP*** -> ***Enterprise Business Functions*** -> ***Logistics*** -> ***Sales and Distribution*** -> ***REA Recycling Administration***.

J_7L_REA_SUSTAIN: Packaging Sustainability Reporting (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA_APPL 605), business function *Recycling Administration (REA), Environmental Product Reporting and Lean Data Entry* (J_7L_REA_SUSTAIN), you can use a sustainability report for packaging data in Recycling Administration (REA) for optimized environmental reporting. This sustainability report relates to packaging and serves mainly to fulfill the environmental obligations imposed by the economy on sustainability reporting in the product life cycle.

With the REA sustainability report, you can create detailed lists of important REA data according to the type and quantity of each of the packaging materials used and the articles delivered, and make them available to third parties. This can be data required by scorecards. Scorecards are relevant when business partners require information from you to compare you to competitors and determine how environmentally friendly the materials used are, and how packaging waste can potentially be reduced or optimized.

With the sustainability report, REA supports the protection of the environment as the reductions in the amount of packaging materials increase the potential savings (for example, costs or storage) throughout the entire supply chain from the producer to the retailer. Packaging sustainability reporting also contributes to environmental protection through the reduction of greenhouse gases by ensuring that targets for reducing packaging materials in certain categories are consistently pursued by all parties in the supply chain.

REA provides a generic sustainability report that contains the information most commonly required. Since the demands on sustainability are subject to constant evolvement, you can add customer-specific fields and adapt this report by using your own implementations.

Generally, you do not need the system to create the sustainability report regularly but only when there are new articles or new or changed packaging or packaging components, which you deliver to your customers, for example.

In contrast to the existing reporting functions, fees or price lists are not relevant for the REA sustainability report.

If you want to run further evaluations on the subject of sustainability, there are a number of BW extractors available that provide SAP NetWeaver Business Warehouse (BW) with the REA data required for the report from SAP ERP.

Note that REA does not provide BW content with SAP enhancement package 5 for SAP ERP 6.0.

The following BW extractors are available:

Extractors for Movement Data

- REA extractor for assortment declarations (0REA_ASSORTMENT_DECL_TD)
  With this extractor, you can extract the REA declarations for an assortment declaration or a sustainability report with the respective contents. The system controls the delta process used for the selection of the current declarations using the created-on or changed-on date.
- REA extractor for cost analysis (0REA_COSTANALYSIS_TD)
  This extractor provides cost information about REA articles, independent of a REA declaration. In contrast to a declaration, the extracted data is not based on saved REA documents, but is determined at runtime by the system depending

on the selection parameters. You can select billing documents, material documents, and their corresponding info structures if necessary as the data sources. If you use the interface for external data, this can also be used as a data source.

- REA extractor for declarations (0REA_DECLARATIONS_TD)
  With this extractor, you can extract REA declarations that are not classified as assortment declarations and are to be taken into account for analysis for sustainability in SAP NetWeaver Business Warehouse. The system controls the delta process used via the created-on or changed-on date.

Extractors for Master Data

With the following extractors, you can extract REA master data in SAP NetWeaver Business Warehouse as attributes, if necessary with the corresponding texts. SAP NetWeaver Business Warehouse loads the complete master data in accordance with the selection criteria.

- REA extractor for fractions (0REA_FRACTIONS_ATTR)
  With this extractor the internal REA fractions are extracted.
- REA extractor for fractions (short text) (0REA_FRACTIONS_TXT)
  With this extractor the texts for the REA fractions are extracted.
- REA extractor for partner fractions (0REA_FRACTIONS_PARTNER_ATTR)
  With this extractor the REA partner fractions are extracted.
- REA extractor for partner fractions (short text) (0REA_FRACTIONS_PARTNER_TXT)
  With this extractor the texts for the REA partner fractions are extracted.
- REA extractor for material characteristic groupings (0REA_GROUP_ATTR)
  With this extractor the internal attributes in REA for the grouping of material characteristics are extracted.
- REA extractor for characteristics groupings (short text) (0REA_GROUP_TXT)
  With this extractor the text elements for the material characteristic groupings are extracted.
- REA extractor for partners (0REA_PARTNERNAME_ATTR)
  With this extractor the names of the partner are extracted as an attribute.
- REA extractor for partners general data (0REA_PARTNER_ATTR)
  With this extractor the country-specific master data for the partner information is extracted.
- REA extractor for partner names (text) (0REA_PARTNER_TXT)
  With this extractor the names of the partner are extracted.

Effects on System Administration

The sustainability report is integrated in *Create Declaration* (transaction J7LMS).

If you want to use the sustainability report, you must have the appropriate authorizations.

J_7L_REA_SUSTAIN: Lean Data Entry (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA_APPL 605), business function *Recycling Administration (REA), Environmental Product Reporting and Lean Data Entry* (J_7L_REA_SUSTAIN), a simplified data entry function for Recycling Administration (REA) reporting is available. This facilitates fast and direct input of REA-relevant master data and execution and evaluation of declarations.

This streamlining is facilitated by a Web-based interface (ABAP Web Dynpro). Enabled by the four predefined roles, each processor has access to exactly those interfaces that contain the fields and functions relevant to him or her.

The following roles and their respective functions are available:

- Superadministrator Master Data
- Person responsible Master Data
- Compliance Manager
- Financial Accountant

In addition to the simplified data entry, you can display the log files for declarations selectively to locate any errors.

The following transactions have now been added to the ***SAP Easy Access*** menu under *Logistics -> Sales and Distribution -> Billing -> Recycling Administration -> Information Systems -> Checks and Analyses*:

- *Article Consistency Check* (transaction J7LKC)
  (the same transaction is also under *Article* in the menu)
- *Packaging Consistency Check* (transaction J7LKCV)
  (the same transaction is also under *Packaging* in the menu)
- *Analysis of Declaration Log File* (transaction J7LLAN)
  (new transaction)

Effects on Existing Data

The following user interface elements are new:

Transaction	Program/Screen	UI Element
J7LLAN	J_7LLOG_ANALYSER	Analysis of

Declaration Log File

Effects on System Administration

Each employee must have the relevant ERP user role assigned.

Effects on Customizing

You make the Customizing settings for this function in Customizing for Sales and Distribution under *Billing -> Recycling Administration -> General Control ->* **Define General Control**.

J_7L_REA_SUSTAIN: Legal Enhancements for North America (New)

Use

As of SAP enhancement package 5 for SAP ERP 6.0 (EA_APPL 605), business function *Recycling Administration (REA), Environmental Product Reporting and Lean Data Entry* (J_7L_REA_SUSTAIN), you can use the updated reporting within the framework of the legal requirements for environmental reporting for packaging, batteries, and electrical and electronic devices for the U.S. state of California and the Canadian provinces British Columbia and Ontario.

REA provides new compliance schemes for California, British Columbia, and Ontario.

In addition, the existing declaration administration for California, British Columbia, and Ontario has been extended to include the recovery document type *R*. The new recovery document type specifies the recovery quantities that users can enter directly in the system. The system uses this recovery document type when creating declarations to determine which declaration result is to be created.

Additional Release Notes

Dangerous Goods Management (Changed)

Use

As of ***SAP Enhancement Package 5 for SAP ERP 6.0 (EA-PLM 605)***, the following new functions are available in the ***Dangerous Goods Management*** component:

- The terms *limited quantity* and *excepted quantity* can no longer be used as synonyms. Instead, an additional data element has been added to the existing data element so that both fields, **Limited Quantity** and **Excepted Quantity**, can now be used separately. Both fields can be edited in UN-listed substances and in the dangerous goods master. Data is available for the *dangerous goods documents*, *dangerous goods checks*, *distribution*, and *filling*. This function was implemented because of a legal change and will be available in Support Packages (also for lower releases). For more information, see SAP Note 1271123.
- The input help for the **Marine Pollutant** field has been enhanced so that substances can now also be identified as *environmentally hazardous*. Data is available for the *dangerous goods documents*, *dangerous goods checks*, *distribution*, and *filling*. This function was implemented because of a legal change and will be available in Support Packages (also for lower releases). For more information, see SAP Note 1265493.
- In the **Specify Danger Labels** Customizing activity, the **Additional Info** field is available. This allows you to differentiate between danger labels and additional information. This function was implemented because of a legal change and will be available in Support Packages (also for lower releases). For more information, see SAP Note 1265494.

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Global Label Management (Changed)

Use

As of ***SAP enhancement package 5 for SAP ERP 6.0 (EA-APPL 605)***, the following new enhancements are available in ***Global Label Management***. These functions were implemented because of a legal change and will be available in Support Packages (also for lower releases).

- Use of labels with a layout in line with the EU Dangerous Substance and Preparations Directive or the GHS regulation.
- Use of an extended logic to determine labels based on hazard pictograms if the ***GHS/DG Hazard Pictogram Suppression*** parameter is selected for a label category.
- If a label based on the GHS regulation contains a features a hazard indicator and a hazard pictogram, you can suppress the output of the pictogram if you wish.
- For a label stock (EU or GHS label), you can specify how many use symbols or hazard pictograms can be output on a label from the label stock.
- You can configure the type of label stock (EU or GHS label) to be used by the system for label determination.
- You can use a special report symbol to black out the area on the label where the hazard pictogram is usually printed if the labeled substance does not require a hazard pictogram or requires fewer pictograms.

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Structure changes in Customizing for EH&S

Use

As of ***SAP Enhancement Package 5 for SAP ERP 6.0 (EA-APPL 605)***, the following changes were made in Customizing for the ***Environment, Health and Safety*** component:

New IMG activities

- Under ***Occupational Health*** -> ***Medical Service*** -> ***Import Medical Data*** -> ***Business Add-Ins (BAdIs)*** -> ***BAdI: Import of Medical Data (Examination Results)***
- Under ***Waste Management*** -> ***Disposal Documents*** -> ***Business Add-Ins (BAdIs)*** -> ***BAdI: Application Logic for Maintain Disposal Note***
  This Customizing activity was implemented because of a legal change and will be available in Support Packages (also for lower releases).
- Under ***Waste Management*** -> ***Disposal Documents*** -> ***Business Add-Ins (BAdIs)*** -> ***BAdI: Disposal Document Check Before Request Disposal Note***
  This Customizing activity was implemented because of a legal change and will be available in Support Packages (also for lower releases).
- Under ***Product Safety*** -> ***Substance Volume Tracking*** -> ***BAdI: Functions for the Only Representative***
- Under ***Product Safety*** -> ***Substance Volume Tracking*** -> ***BAdI: Enhancements for the Output of Customer Lists***
- Under ***Product Safety*** -> ***Substance Volume Tracking*** -> ***BAdI: Substance Volume Tracking (Tracking Process Enhancement)***
- Under ***Product Safety*** -> ***Global Label Management*** -> ***Set Up GHS/Dangerous Goods Phrase Assignment***

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Substance Volume Tracking (Changed)

Use

As of ***SAP Enhancement Package 5 for SAP ERP 6.0 (EA-APPL 605)***, the following new functions are available in the ***Substance Volume Tracking*** component. These functions were implemented because of a legal change and will be available in Support Packages (also for lower releases).

- Entering an only representative is supported.
  You can assign only representatives for external and internal business partners in the transactions **Edit Only Representative Role for External Business Partner** and **Edit Only Representative Role for Internal Business Partner**.
  In the standard system, external business partners are suppliers from which goods are obtained, for example, in the form of an order. By appointing an only representative, you do not have to carry out substance value tracking for those selected cases.
  In the standard system, internal business partners are company codes that deliver goods, for example, in the form of a sales order. If you deliver goods, triggered by a sales order or by an outbound delivery, and use an only representative, the quantities are stored based on the only representative.
  The transaction **Substance Volume Tracking: Monitoring** has been extended to include the fields *Internal Only Representative* and *External Only Representative* to allow the quantities assigned to the only representative to be monitored. In the export scenario (sales orders), the data is stored on the basis of the only representative. With the import scenario (purchase order, purchase requisition), the data is not tracked if an only representative is assigned.
  The program **RREGCH_FILL** (Substance Volume Tracking: Data Transfer from Property Tree) has been extended to include the indicator **Transfer Only Representative Data** in order to transfer only representative roles to another system if necessary.
  The program **RREGCH_VT_CONDENSE_SAVE** (Substance Volume Tracking: Save Tracked Quantities in Property Tree) has been extended in such a way that it transfers the substance quantities of tracked substances to the property tree of tracked substances based on the only representative if necessary.
  The program **RREGCH_OR_DATE_VALIDATE** (Validate the Only Representative Basic Data) enables the data for the only representative roles to be checked. This program can also be used to create an application log. You can view this log with the transaction **Substance Volume Tracking: Logging**. The corresponding subobject is *Validate Only Representative Data* (OR_VALIDATION).
  You can make customer-specific adjustments to the extensive functions that relate to only representative roles using the BAdI **Functions for the Only Representative**.

- Output of a customer list is supported.
  If you have specified an only representative for your imports, you can use the **Substance Volume Tracking: Output Customer List** transaction to create a customer list containing all the customers of the only representative. Active implementations of the BAdIs **Substance Volume Tracking (Tracking Process Enhancement)** and **Enhancement for Output of Customer Lists** are required to use this function. Both BAdIs are shipped with a corresponding example implementation.

- Posting and clearing of bonded warehouses is supported.
  Depending on the legal requirements, certain substances may be under customs supervision. Depending on the case in question, the quantities must be excluded from or included in tracking. You can use this function to specify plants or plants

and storage locations as a bonded warehouse for the *import* and *export* scenarios. You can use bonded warehouses to control if substance volume tracking considers the quantities that are delivered to or sent from a bonded warehouse. Quantities delivered to the bonded warehouse from external locations are not tracked; quantities sent from the bonded warehouse to the validity area of the regulatory list are tracked.

- Import Scenarios
  In the **Edit Importers** transaction, you can assign external business partners to an importer, who is then responsible for importing the goods in the validity area of the regulatory list. In the standard system, the external business partner is a supplier from whom the goods are procured, for example, in the form of a purchase order.

- Calculation of the 3-year average is supported.
  You can calculate and display the 3-year average for the preregistered phase-in substances (existing chemical substances). The annual average for manufactured or imported phase-in substances is calculated based on the quantities manufactured or imported over the last three consecutive years.

- You can exclude substances from substance volume tracking. To do so, the phrase you specified for the environment parameter **SVT_PHR_SPEEXCL_REG** must be specified for the Additional Info characteristic (SAP_EHS_1023_012_INFO) of the Notification Status property (SAP_EHS_1023_012).
  The exclusion is limited to substances for tracking (lowest expanded level of a composition) as well as to corresponding regulatory lists. Specify, therefore, the corresponding regulatory list for the Regulatory List characteristic (SAP_EHS_1023_012_BASE).
  The standard property SAP_EHS_1023_012 as well as the standard characteristics SAP_EHS_1023_012_INFO and SAP_EHS_1023_012_BASE, for which the value assignments must be made in the standard system, can be replaced by customer-specific settings. To do so, specify a customer-specific property and customer-specific characteristics in the IMG activity **Specify Scenarios**. The fields available are **Value Assignment Type for Filtering Out Specifications**, **Characteristic for Filtering Out Specifications**, and **Charact. for Regulatory List for Filtering Specifications**. The standard system contains the default property and the default characteristics for the REACH regulations.

  The corresponding value assignment instance, for which the phrase is entered, must correspond to the rating and validity area that is specified in the Customizing activity ***Specify Scenarios*** for the value assignment type 1.

Effects on Customizing

To use the only representative, it is necessary to make the following entries in Customizing for substance volume tracking in the Customizing activity **Specify Scenarios** under *Data Determination* in the field **Data Separation**:

Scenario	Function module
IMP	CBRC_PUR_DATA_SEP_OR
EXP	CBRC_SO_DATA_SEP_OR

The function module CBRC_PUR_DATA_SEP_OR calls the standard module CBRC_PUR_DATA_SEP_BY_VA, extended to include the only representative role.

The function module CBRC_SO_DATA_SEP_OR calls the standard module CBRC_SO_DATA_SEP_BY_VA, extended to include the function of the only representative role.

See also

For more information, see the SAP Help Portal at **help.sap.com**.

Information about the test function for confirmed quantities is available **Substance Volume Tracking (New)**. This function belongs to the ***Business Function EH&S Continuous Improvement (LOG_EHS_CI_2)***.

Waste Management (Changed)

Use

As of ***SAP Enhancement Package 5 for SAP ERP 6.0 (EA-PLM 605)***, the following new functions are available in the ***Waste Management*** component: These functions were implemented because of a legal change and will be available in Support Packages (also for lower releases). For more information, see SAP Note 939450.

- For the Disposal Documents module, the system provides Enterprise Services that enable disposal document information to be exchanged with other applications.
  You can use the Customizing activity **BAdI: Application Logic for Maintain Disposal Note** to make your own customer-specific adjustments to the inbound processing of Enterprise Service for exchanging disposal document information. The system provides an example implementation as a template that supports the inbound processing for the German waste manifest (Begleitschein).
  In the Customizing activity **Specify Functions**, you can define the pushbuttons for controlling the service operation and assign the function modules.
  The system provides Enterprise Services for the Master Data module to enable the address and the authority-assigned number to be exchanged with other applications. In transaction **WASS108**, you can assign the function code EHSWAT0070_ZUO to control the service operation.

See also

For more information, see the SAP Help Portal at **help.sap.com**.