

**SAP enhancement package 6 for SAP ERP
6.0
Release Notes**



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11 MM Materials Management

11.1 FIN_LOC_CI_14: Business Function FI, LO, Localization Topics for Russia 2 (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the business function *FI, LO, Localization Topics for Russia 2* (FIN_LOC_CI_14) is available.

With this business function, you can meet business requirements in the *Financial Accounting* (FI), *Materials Management* (MM), and *Sales and Distribution* (SD) components for Russia.

For more information, see the following release notes:

- Advance Payment Invoices (New)
- Export Customs Declarations (Enhanced)
- Export Data Analysis for VAT (New)
- Inventory Differences Offsetting (New)
- Posting to Alternative G/L Accounts (Enhanced)
- Printing TORG-12 Form in SD (New)
- Secondary Events Creation (Enhanced)
- Stock on Posting Date (Enhanced)
- VAT Account Analysis (New)
- Workwear Accounting (New)

See also

SAP Library for SAP ERP under *Business Functions* (SAP Enhancement Package 6 for SAP ERP 6.0) -> *Enterprise Business Functions* -> *Accounting* -> *Country-Specific Business Functions* -> *FI, LO, Localization Topics for Russia 2*

11.2 LOG_TRM_INT_1: Logistics-Treasury Integration (new)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (EA-FINSERV 606), the new business function *Logistics-Treasury Integration* (LOG_TRM_INT_1) is available. You can use this business function to enable the integration of SAP logistics applications with SAP Treasury and Risk Management for the management of exposures related to the sale and purchase of specified commodities and the pricing procedures for these commodities.

By automatically reporting commodity exposures from Logistics to Treasury and Risk Management this business function enables you to analyze the corresponding raw exposures in Exposure Management 2.0 regarding the risks involved. Afterwards you can hedge the risks of these exposure positions using the financial instruments of the Transaction Manager.

New commodity exposures are sent to the risk management interface directly and can then be handled by exposure management. Existing raw exposures are updated when changes occur in the related purchase order or sales order items, for example

- Pricing changes related to pricing developments during the relevant quotation period
- Differences between the ordered quantity and the actual quantity received
- Differences in the commodity characteristics (as determined on the basis of batch assays).

11.3 FIN_LOC_CI_14: Inventory Differences Offsetting (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), business function *FI, LO, Localization Topics for Russia 2* (FIN_LOC_CI_14), you can use the following new functions:

- You can use the new *Offset Inventory Differences (Russia)* program, which allows you to offset stock surpluses against stock shortages that are found during physical inventory.
- The *INV-19 Difference List for Stock (Russia)* transaction can create the INV-19 form including the results of the inventory differences offsetting.

Effects on Existing Data

- The area menu has been enhanced by the following new entry:

Logistics -> Materials Management -> Physical Inventory -> Environment -> Country-Specific Reports -> Russia -> Offset Inventory Differences

- The *INV-19 Difference List for Stock (Russia)* transaction has been updated to include the results of inventory differences offsetting in the generated form.

Effects on Customizing

You make the Customizing settings for this function in Customizing for *Materials Management (MM)*, under *Inventory Management and Physical Inventory -> Reporting -> Country Specifics -> Russia -> Inventory Differences Offsetting*, in the following Customizing activities:

- Define Groups for Offsetting Inventory Differences
- Assign Material Groups to Groups for Inventory Differences Offsetting
- BAdI: Algorithm Change for Offsetting Inventory Differences

See also

SAP Library for SAP ERP under *SAP ERP Central Component -> Financials -> Country Versions -> Europe and Africa -> Russia -> Materials Management (MM) -> Business Transactions -> Inventory Differences Offsetting*

11.4 MM-PUR Purchasing

11.4.1 Do Not Translate Please - content to be added

11.4.2 LOG_MM_CI_4: ERP, MM, Procurement (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the business function ERP, MM, Procurement (New) is available. With this business function, you can use this business function to

provide you with an enhanced version of single processing of purchase requisitions (SPPR). This business function also covers enhancements in collective processing of purchase requisitions (CPPR).

Single Processing of Purchase Requisitions (SPPR)

The enhancements are in the following areas:

- User personalization
- Park and hold
- Templates

The template functionality now covers services.

- Integration with catalog
- Selection of services

You can select services from different documents and Manager Self Service.

- Account assignments

The handling of account assignments has been enhanced

- Error handling

Error handling is improved.

- Embedded analytics

Embedded analytics now displays Source of Supply, and is available in the side panel of the user interface.

Collective Processing of Purchase Requisitions (CPPR)

The user interface has been enhanced to include a new Edit button. In previous releases, after the Refresh button had been pressed the screen went into display mode. To make changes you had to close the CPPR application and relaunch it. The new Edit button removes the requirement to close and relaunch the CPPR application.

See also

For more information, see SAP Library for SAP ERP under SAP ERP Central Component -> Logistics -> Materials Management (MM).

11.4.3 LOG_MM_P2PSE_3: Business Function ERP, MM, Procurement and SRM

Integration (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the business function ERP, MM, Procurement and SRM Integration (New) is available. With this business function, you are provided with complete catalog support for single processing of purchase requisition (SPPR). It provides enhancements to central contract management between SAP SRM and SAP ERP.

These enhancements include the provision of updating of infocord and source list in ERP from SRM central contract.

For more information about the individual functions, see the release notes on SAP Service Marketplace at <http://service.sap.com/releasenotes> under Release Notes -> SAP Solutions -> SAP SRM -> SAP SRM 7.02 EHP 2:

SRM_SOURCING_2: SRM, Strategic Sourcing Innovations 2

Effects on Customizing

If you want to use these functions, you must activate the business function SRM, SRM_SOURCING_2: SRM, Strategic Sourcing Innovations 2 in the SAP SRM system and perform Customizing activity Define Status for Purchase Orders in Back-End System in Customizing for SAP Supplier Relationship Management under SRM Server -> Cross-Application Basic Settings -> Service Procurement.

You can integrate the park and hold functions and invoices with contract references in SAP SRM Contract Management if you activate the business function Materials Management - Enhancements in Procurement (LOG_MM_CI_3).

11.4.4 LOG_MM_ANALYTICS_01: ERP Procurement Analytics 01

Use

As of SAP enhancement package 6 for SAP ERP 6.0 the business function *ERP Procurement Analytics 01* is available. With this business function, you can enable real-time reporting in purchasing and inventory. Real-time reporting is possible with new direct-access DataSources in purchasing analysis and inventory analysis and Operational Data Providers (ODP) built on these DataSources.

Real-time reporting in MM analytics is most suitable for low volumes of data or with appropriate selection criteria. For reporting involving high volumes of data, it is recommended that you use BWA (SAP NetWeaver Business Warehouse Accelerator).

Direct Access Data Provisioning and ODP for Purchasing Analysis

This functionality allows real-time reporting of purchasing information. ODP are developed similar to the existing BW InfoProviders for purchasing analysis, and the new queries on top of these ODP provide the real-time reports.

Direct Access Data Provisioning and ODP for Inventory Analysis

This functionality allows real-time reporting of inventory information. ODP are developed similar to the existing BW InfoProviders for inventory analysis, and the new queries on top of these ODPs provide the real-time reports.

You can also use this business function for embedded analytics in Single Processing of Purchase Requisition (SPPR) and Collective Processing of Purchase Requisition (CPPR) for vendor evaluation.

For more information on this, see the following release note:

- LOG_MM_CL_4: ERP, MM, Procurement (New)

Effects on Customizing

The following new Business Add-Ins (BAdI) are available in Customizing as of this release:

Purchasing Analysis

Materials Management -> Purchasing -> Business Add Ins for Purchasing -> Business Add-Ins for Operational Reporting

- MMDA_PUR_HDR - Purchasing Document (Header level)
- MMDA_PUR_ITM - Purchasing Document (Item level)
- MMDA_PUR_SCL - Purchasing Document (Schedule line level)
- MMDA_PUR_CGR - Produced Activity (Delivery of Confirmations)
- MMDA_PUR_SGR - Produced Activity (Delivery of Schedule Lines)
- MMDA_PUR_SCN - Produced Activity (Confirmation of Schedule Lines)
- MMDA_PUR_PURCH_DATA - Purchasing Data
- MMDA_PUR_PURCH_GROUPS - Purchasing Groups
- MMDA_PUR_SRV_LEVEL - Service level

Inventory Analysis

Materials Management -> Inventory Management and Physical Inventory -> Maintain Customer Exits and BAdI -> Business Add-Ins for Operational Reporting

- MMDA_IM_REVALUATION - Price Change Documents
- MMDA_IM_MAT_MVMTS - Material Movement Documents
- MMDA_IM_STOCK_INT - Stock Initialization in Inventory Analysis

See also

For more information, see SAP Library for SAP ERP under *SAP ERP Central Component -> Logistics -> Materials Management (MM)*.

11.4.5 LOG_MM_COMMODITY: Business Function Procurement Process for Commodities (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the new business function Procurement Process for Commodities (LOG_MM_COMMODITY) provides differential invoicing as a process in the logistics applications Purchasing, Inventory Management, and Logistics Invoice Verification.

Differential invoicing is a multi-level invoicing process in which a provisional invoice is first issued, then one or more differential invoices, and ultimately a final invoice.

Differential invoicing facilitates the consideration of differences in price determination, for example, due to the price history during a defined calculation period or due to the measured batch quality of an item, in the differential invoicing process. Price determination for relevant items can be performed using the standard price determination and using the connection to the further developed commodity pricing engine (CPE).

This business function affects various places in the applications for Purchasing, Inventory Management, and Logistics Invoice Verification.

1) Purchasing

Transaction MEPO (create purchase order) contains the new field *Differential Invoicing* (on the *Invoice* tab), which is used to indicate purchase order items as *Relevant* for differential invoicing. You can use a BAdI to determine if purchase order items are relevant. The BAdI enables you to tailor the relevance determination to meet your requirements.

2) Inventory Management

In Inventory Management, when goods are received, the batch characteristics are updated based on batch samples and a new price determination is then performed for all relevant items that are defined with goods-receipt-based invoice verification, for example, if one of the following is true:

- CPE conditions are used
- Price-relevant differences are determined in the batch characteristics

3) Logistics Invoice Verification

In transaction MIRO (enter invoice), the selection list *Operation* has been enhanced with the invoice operations of differential invoicing (*Provisional Invoice*, *Differential Invoice*, *Final Invoice*).

The price update of the various items in an invoice can cause the invoice amount to be corrected so that it is either higher or lower. For this, the new field *Difference Posting* is available, which you can set to be higher or lower for differential invoices and final invoices, depending on the correction of the invoice amount: If the correction amount is higher, the difference is to be posted *as an invoice*, if the correction amount is lower, the difference is to be posted *as a credit memo*.

In the relevant invoice items, the batch used for the goods receipt is displayed in a new field that also permits navigation to the batch cockpit, and the difference amount of the item (the calculated difference value between the preceding document and the current invoice) is displayed in an additional field. In the condition display of the relevant items, a difference display at condition level is also available (as for differential invoices in the outgoing invoice in SD).

To display the new invoice operations clearly, there is also a separate layout variant *Differential Invoicing*.

Effects on Customizing

The following Business Add-Ins are available for this business function:

- *BAdI: Relevance Determination at Document Item Level*. You use this BAdI to perform and adapt the determination of relevant items for differential invoicing. For the BAdI, see Customizing for Materials Management and choose *Purchasing -> Business Add-Ins for Purchasing*. You use this business function to install and activate the BAdI implementation LOG_PO_COMMODITY_RELEVANCE as the default implementation.
- *BAdI: Invoice Validation*. You use this BAdI to define and check the criteria according to which an invoice item relevant for a differential invoice can be posted. For the BAdI, see Customizing for Materials Management and choose *Logistics Invoice Verification -> Maintain Customer Exits and Business Add-Ins*.

See also

For notes on existing restrictions to this business function in the current release version (EHP6), see SAP Note 1584025. The restrictions are described in the constraints documentation attached to this SAP Note.

11.4.6 Changed Roles (Changed)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the following roles are new, changed, or have been deleted:

- SAP_IN_STORE_MERCH_INV_MAN_ALL, Mass Maintenance in Purchasing
This role has been deleted.
- SAP_MM_PUR_MASS_CHANGE, Mass Maintenance in Purchasing
This role has been deleted and replaced by the following new roles:

- SAP_MM_PUR_MASS_PO_CHANGE, Mass Maintenance of Purchase Orders in Purchasing
- SAP_MM_PUR_MASS_IN_CHANGE, Mass Maintenance of Purchasing Info Records
- SAP_MM_PUR_MASS_RQ_CHANGE, Mass Maintenance of Purchase Requisitions in Purchasing

See also

For more information about these roles, see the documentation in SAP Library.

11.4.7 MM-PUR-GF Basic Functions**11.4.7.1 MM-PUR-GF-CPE CPE in MM****11.4.7.1.1 LOG_CPE_FA_FE: CPE: BAdI-Based Formula Handling (New)****Use**

As of SAP enhancement package 5 SP 05 for SAP ERP 6.0, the business function *Commodity Pricing Engine: BAdI-Based Formula Handling* (LOG_CPE_FA_FE) is available.

With this business function, you can use commodity pricing to calculate prices for commodities. Commodity pricing is a calculation that uses price quotations from the stock market (such as those published by Platts, Reuters, and others) to determine the price of a material or product. Commodity pricing is performed with the commodity pricing engine (CPE), based on a set of business rules that decide how price quotation data is used to get the final price for commodities. Commodity pricing contains different methods for determining price quotations, such as fixed price quotations, price quotations for a fixed day, or average price quotations.

The business information about how commodities can be priced is captured using formulas, known as commodity pricing formulas (CPE formulas). The price quotations are stored as master data and are used to evaluate these CPE formulas.

The prerequisite business function, *Logistics, Commodity Pricing Engine in SD and MM* (LOG_CPE_SD_MM), is available as of SAP enhancement package 3 for SAP ERP 6.0.

As of SAP enhancement package 3 for SAP ERP 6.0, CPE was integrated into SD documents and MM documents without mandatory use of a SAP CRM system. The finding and evaluation of the CPE formulas in the CPE was executed in a Java-based run-time environment.

As of SAP enhancement package 5 SP05 for SAP ERP 6.0, the following enhancements are available:

- The finding ("Formula Assembly") and evaluation of CPE formulas is based on a pure ABAP-based run-time environment. The configurable CPE formula evaluation routines are ported from Java-based user exits to ABAP-based implementations of Business Add-Ins (BAdIs). There are new BAdIs for all the CPE formula evaluation routines. They belong to the enhancement spot ES_CPE_FE.
- With the new BAdIs you can either adopt the existing logic for the CPE formula evaluation and modify it, or implement your own customer-specific logic. You can use BADI_CPE_FE_EVALUATION_ROUTINE to change the entire formula evaluation logic or replace it with your own logic.
- If you only want to change parts of the formula evaluation, you can use the following BAdIs independently from one another:
 - BADI_CPE_FE_ROUNDING_ROUTINE
 - BADI_CPE_FE_QTY_CONV_ROUTINE
 - BADI_CPE_FE_CONVERSION_ROUTINE
 - BADI_CPE_FE_PERIOD_DET_ROUTINE
 - BADI_CPE_FE_CALCULATION_ROUTINE
 - BADI_CPE_FE_SURCHARGE_ROUTINE
 - BADI_CPE_FE_TERM_TYPE
 - BADI_CPE_FE_QTY_SPLIT_ROUTINE
 - BADI_CPE_FE_COMBINATION_ROUTINE
- The following BAdIs are called within the standard implementation for BADI_CPE_FE_PERIOD_DET_ROUTINE:
 - BADI_CPE_FE_REF_DATE_ROUTINE
 - BADI_CPE_FE_DATEOFFSET_ROUTINE
 - BADI_CPE_FE_TIME_UOM_ROUTINE
 - BADI_CPE_FE_DATE_LIST_ROUTINE
 - BADI_CPE_FE_DATE_SUBST_ROUTINE
 - BADI_CPE_FE_READ_UNTIL_ROUTINE
 - BADI_CPE_FE_SOURCE_ROUTINE

As of SAP enhancement package 6 for SAP ERP 6.0, the following further enhancements are available:

- For the finding of CPE formulas ("Formula Assembly"):

- You can bundle the condition tables and condition types for entry in the following condition maintenance groups: CPE_MM (for application purchasing) and CPE_SD (for application sales).
- You can flexibly control the priority of certain attributes when assembling a CPE formula. The condition technique finds the parts of the formula. Each condition is related to one or more business attributes. These business attributes are considered when it comes to formula assembly. By prioritizing attributes, you can control how the formula is assembled.
- You can ensure that customer-required attributes are considered by the system when the formula is assembled. This happens when you assign customer-added fields in the condition tables (part of the condition technique) to customer-added fields in the commodity pricing engine tables/objects for formula and term.

Effects on Existing Data

If you used your own CPE formula evaluation routines in JAVA, you have to recode this logic as an ABAP BAdI implementation.

Effects on Customizing

To implement the BAdIs for CPE formula evaluation, do the following:

- In Customizing for Materials Management choose Purchasing --> Commodity Pricing --> Commodity Pricing Engine --> General CPE Settings --> Define Partner- or Customer-Specific CPE Routine.
- In Customizing for Sales and Distribution choose Basic Functions --> Commodity Pricing --> Commodity Pricing Engine --> General CPE Settings --> Define Partner- or Customer-Specific CPE Routine.

As of SAP enhancement package 6 for SAP ERP 6.0, to implement these new functions for formula assembly, do the following:

- In Customizing for Materials Management choose Purchasing --> Commodity Pricing --> Settings for Formula Assembly.
- In Customizing for Sales and Distribution choose Basic Functions --> Commodity Pricing --> Settings for Formula Assembly.

See also

Release note for business function *Logistics, Commodity Pricing Engine in SD and MM* (*LOG_CPE_SD_MM*) available as of SAP enhancement package 3 for SAP ERP 6.0.

11.4.7.2 MM-PUR-GF-REL Release (Approval)

11.4.7.2.1 MM-PUR-GF-REL-REQ Release of Requisitions

11.4.7.2.1.1 BF_LOG_MM_EXT_REL: External Release for Purchase Requisition (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0, business function **External Release for Purchase Requisition** is available. You can use this business function to pass release procedures for purchase requisitions in ERP systems to an external system, so that you can maintain your entire release procedure in one system.

Effects on Existing Data

The Customizing activities under *SAP Reference IMG -> SAP Implementation Guide (IMG) -> Materials Management -> Purchasing -> Purchase Requisition -> Release Procedure -> Procedure with Classification -> Set Up Procedure with Classification -> Release Strategies* have a new checkbox, *External Release*. This enables the user to set a release strategy to external release.

Transactions for processing purchase requisitions (ME51N, ME52N, ME53N, ME54N, and SPPR) contain a corresponding checkbox, showing whether the purchase requisition is subject to external release.

Effects on System Administration

You can use transaction *ME_EXT_REL_PR* to analyze purchase requisitions for external release and manually send release requests to the external system.

Effects on Customizing

You make the Customizing settings for this function in Customizing for Materials Management by choosing *Purchasing -> Purchase Requisition -> Release Procedure -> Set Up Procedure with Classification -> Release Strategies*.

In transaction SWETYPV, you activate the entry for BOR object BUS2105 and event RELEASEREQUESTED.

If you activate the business function, the ERP system sends documents that are to be released to an external system. The external system sends its confirmation and the result of the release procedure to the ERP system in messages.

For this purpose, the following new enterprise services are available:

- *PurchaseRequestERPReleaseRequest_Out*
- *PurchaseRequestERPReleaseConfirmation_In*

See also

SAP Library for SAP ERP under *Business Functions (SAP Enhancement Package 6 for SAP ERP 6.0) -> Enterprise Business Functions -> Logistics -> Materials Management -> External Release for Purchase Requisition*

11.4.8 MM-PUR-SSP Self-Service Procurement

11.4.8.1 LOG_MM_SSP_1:MM, Self-Service Procurement in SAP ERP (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the business function *MM, Self-Service Procurement in SAP ERP* is available. With this business function, you can use Self-Service Procurement in SAP ERP to enable your employees to create and manage shopping carts for their own requisitions. Self-Service Procurement is a self-service application for occasional users and their typical requisitions.

This application simplifies and accelerates your purchasing processes because employees can enter their requisitions directly in this application. After adding the items to shopping cart, the employees have the option to Save or Order. Once the shopping cart has been ordered, an employee can no longer edit the shopping cart.

Self-Service Procurement in ERP allows for both a paperless and fast processing of the requisitions, and reduces the workload of the purchasing department. Purchase orders, for example, can be created automatically based on the shopping cart data.

Employees can use a cross-catalog search to order products. You can connect internal and external catalogs to the application so that employees have immediate access to product details and price information. Note that for the delivery address, the account assignment can be edited at shopping cart level only.

If enabled in Customizing, the search function also includes the option to search for a material master. In addition, users can describe the required product and add an attachment.

To ensure secure processes, a workflow for approving shopping carts is in place. Approval processes are implemented using BRFPplus. Approvers receive work items for approval in their inbox. Approval is facilitated by features such as approval notes, approval of individual products or shopping carts, and an overview of recently ordered products of the employee.

Self-Service Procurement is part of the *Purchasing* component of Materials Management in SAP ERP. It ensures full access to SAP ERP data such as cost centers. Shopping carts created by employees result in follow-on processes in SAP ERP, for example, the creation of purchase requisitions or reservations.

Note that services and print functionality are not supported.

Effects on Customizing

You define the Customizing settings for this function in Customizing for *Materials Management* under *Purchasing --> Shopping Cart*. All Customizing activities under this path are relevant.

See also

For more information see <http://help.sap.com> -> SAP Business Suite -> SAP ERP.

11.5 MM-IM Inventory Management

11.5.1 FIN_LOC_CI_14: Stock on Posting Date (Enhanced)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), business function *FI, LO, Localization Topics for Russia 2* (FIN_LOC_CI_14), you can use a new enhancement for the *Stock on Posting Date* report (transaction MB5B).

In Russia, the law requires you to create a report that confirms the beginning and closing stock balance for each stock account. It is also a business requirement to analyze the data of stock based on stock accounts.

This enhancement allows you to reflect the stock balance for a stock account in the report.

Note

Use of this enhanced program has the following restrictions:

- Postings during the runtime of the program may lead to incorrect results.
- If you activate FI document summarization, the results may be incorrect.
If you activate FI document summarization, the program cannot determine the link between the document item in *Materials Management* and the accounting document item; consequently, it determines the G/L account based on the current account determination settings. If you restrict your selection based on the G/L account, the results in the output of the program may be incorrect if valuation data in the material master records or the customizing settings for account determination have been changed since the document was posted.

Effects on Existing Data

The Stock on Posting Date report has been enhanced as follows:

- The *G/L Account* field has been added to the selection screen of the report.
- The *G/L Account* field has been added to the output (ALV list) of the report.

To restrict the selection based on the stock account, you must do the following:

- Enter the relevant stock accounts in the *G/L Account* field

- Enter either the company code or the plant
- Select *Valuated Stock*

11.5.2 LOG_MM_COMMODITY: Business Function Procurement Process for Commodities (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the new business function Procurement Process for Commodities (LOG_MM_COMMODITY) provides differential invoicing as a process in the logistics applications Purchasing, Inventory Management, and Logistics Invoice Verification.

Differential invoicing is a multi-level invoicing process in which a provisional invoice is first issued, then one or more differential invoices, and ultimately a final invoice.

Differential invoicing facilitates the consideration of differences in price determination, for example, due to the price history during a defined calculation period or due to the measured batch quality of an item, in the differential invoicing process. Price determination for relevant items can be performed using the standard price determination and using the connection to the further developed commodity pricing engine (CPE).

This business function affects various places in the applications for Purchasing, Inventory Management, and Logistics Invoice Verification.

1) Purchasing

Transaction MEPO (create purchase order) contains the new field *Differential Invoicing* (on the *Invoice* tab), which is used to indicate purchase order items as *Relevant* for differential invoicing. You can use a BAdI to determine if purchase order items are relevant. The BAdI enables you to tailor the relevance determination to meet your requirements.

2) Inventory Management

In Inventory Management, when goods are received, the batch characteristics are updated based on batch samples and a new price determination is then performed for all relevant items that are defined with goods-receipt-based invoice verification, for example, if one of the following is true:

- CPE conditions are used
- Price-relevant differences are determined in the batch characteristics

3) Logistics Invoice Verification

In transaction MIRO (enter invoice), the selection list *Operation* has been enhanced with the invoice operations of differential invoicing (*Provisional Invoice, Differential Invoice, Final Invoice*).

The price update of the various items in an invoice can cause the invoice amount to be corrected so that it is either higher or lower. For this, the new field *Difference Posting* is available, which you can set to be higher or lower for differential invoices and final invoices, depending on the correction of the invoice amount: If the correction amount is higher, the difference is to be posted *as an invoice*, if the correction amount is lower, the difference is to be posted *as a credit memo*.

In the relevant invoice items, the batch used for the goods receipt is displayed in a new field that also permits navigation to the batch cockpit, and the difference amount of the item (the calculated difference value between the preceding document and the current invoice) is displayed in an additional field. In the condition display of the relevant items, a difference display at condition level is also available (as for differential invoices in the outgoing invoice in SD).

To display the new invoice operations clearly, there is also a separate layout variant *Differential Invoicing*.

Effects on Customizing

The following Business Add-Ins are available for this business function:

- *BAdI: Relevance Determination at Document Item Level*. You use this BAdI to perform and adapt the determination of relevant items for differential invoicing. For the BAdI, see Customizing for Materials Management and choose *Purchasing -> Business Add-Ins for Purchasing*. You use this business function to install and activate the BAdI implementation LOG_PO_COMMODITY_RELEVANCE as the default implementation.
- *BAdI: Invoice Validation*. You use this BAdI to define and check the criteria according to which an invoice item relevant for a differential invoice can be posted. For the BAdI, see Customizing for Materials Management and choose *Logistics Invoice Verification -> Maintain Customer Exits and Business Add-Ins*.

See also

For notes on existing restrictions to this business function in the current release version (EHP6), see SAP Note 1584025. The restrictions are described in the constraints documentation attached to this SAP Note.

11.5.3 MM-IM-ED Excise Duty

11.5.3.1 Legal Enhancements: EMCS for Excise Duty

Use

As of 2010, the EU Council Directive 2008/118/EG comes into force in the European Union in a phased approach. This directive regulates the movement of specific excise goods, such as spirits, sparkling wines, and beer, between vendors and customers under suspension of excise duty.

Below is an overview of the functions of the *Excise Movement and Control System* (EMCS). These functions are an integral part of the Excise Duty component and are based on the legal requirements of the German customs authorities and European tax law.

Up to now, you could format and group the relevant data for the tax authorities in Excise Duty. This data was transmitted to the customs authorities in paper format, using the *Accompanying Administrative Document* (AAD).

You can now use the new EMCS functions for the automatic exchange of electronic data with the customs authorities when you create material documents. The customs authorities require this data for the control of goods movement under suspension of excise duty between vendors (consignors) and customers (consignees).

The following functions are provided for EMCS:

- *Goods Movement* (transaction MIGO)
Enhanced transaction that lets you automatically start the actions required by EMCS for the movement of goods, for instance when a vendor (consignor) requests a specific reference code from the customs authorities for a shipment.
- *EMCS Cockpit* (transaction /BEV2/CS_COCKPIT)
New transaction that lets you execute all the necessary processing steps and controls of EMCS, such as controlling reports of receipt of customers (consignees).
- *Delete EMCS Data* (transaction /BEV2/CS_ARCHIVE)
New transaction that lets you clean up the database for completed EMCS sequences.
- *BAdI: Enhancement for EMCS Process* (/BEV2/CS_EMCS)
New Business Add-In (BAdI) that provides methods to let you manipulate the communication data exchanged between the ERP and GTS systems in an EMCS sequence.

Effects on Existing Data

EMCS-specific data has been added to the material master, customer master, vendor master, and tax types.

Effects on System Administration

For communication with the customs authorities, you require an *SAP Global Trade Services* (SAP GTS) system as well as an ERP system.

The ERP and GTS systems must be able to communicate with each other by Remote Function Call (RFC). For more information on SAP GTS, see the SAP Library under *SAP BusinessObjects -> GRC Solutions -> Global Trade Services*.

Effects on Customizing

In Customizing for the ERP system, you make the required settings for EMCS under *Materials Management -> Excise Duty*:

- *Excise Movement and Control System (EMCS)*

- *Excise Duty Basic Data -> Maintain Tax Types*

See also

For more information, see the SAP Library under *Materials Management (MM) -> Inventory Management (MM-IM) -> Inventory Management and Physical Inventory (MM-IM) -> Excise Duty (MM-IM-ED)*.

See also SAP Note 889400 on the release restriction of Excise Duty.

11.6 MM-IV Invoice Verification

11.6.1 LOG_MM_COMMODITY: Business Function Procurement Process for Commodities (New)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), the new business function Procurement Process for Commodities (LOG_MM_COMMODITY) provides differential invoicing as a process in the logistics applications Purchasing, Inventory Management, and Logistics Invoice Verification.

Differential invoicing is a multi-level invoicing process in which a provisional invoice is first issued, then one or more differential invoices, and ultimately a final invoice.

Differential invoicing facilitates the consideration of differences in price determination, for example, due to the price history during a defined calculation period or due to the measured batch quality of an item, in the differential invoicing process. Price determination for relevant items can be performed using the standard price determination and using the connection to the further developed commodity pricing engine (CPE).

This business function affects various places in the applications for Purchasing, Inventory Management, and Logistics Invoice Verification.

1) Purchasing

Transaction MEPO (create purchase order) contains the new field *Differential Invoicing* (on the *Invoice* tab), which is used to indicate purchase order items as *Relevant* for differential invoicing. You can use a BAdI to determine if purchase order items are relevant. The BAdI enables you to tailor the relevance determination to meet your requirements.

2) Inventory Management

In Inventory Management, when goods are received, the batch characteristics are updated based on batch samples and a new price determination is then performed for all relevant items that are defined with goods-receipt-based invoice verification, for example, if one of the following is true:

- CPE conditions are used

- Price-relevant differences are determined in the batch characteristics

3) Logistics Invoice Verification

In transaction MIRO (enter invoice), the selection list *Operation* has been enhanced with the invoice operations of differential invoicing (*Provisional Invoice, Differential Invoice, Final Invoice*).

The price update of the various items in an invoice can cause the invoice amount to be corrected so that it is either higher or lower. For this, the new field *Difference Posting* is available, which you can set to be higher or lower for differential invoices and final invoices, depending on the correction of the invoice amount: If the correction amount is higher, the difference is to be posted *as an invoice*, if the correction amount is lower, the difference is to be posted *as a credit memo*.

In the relevant invoice items, the batch used for the goods receipt is displayed in a new field that also permits navigation to the batch cockpit, and the difference amount of the item (the calculated difference value between the preceding document and the current invoice) is displayed in an additional field. In the condition display of the relevant items, a difference display at condition level is also available (as for differential invoices in the outgoing invoice in SD).

To display the new invoice operations clearly, there is also a separate layout variant *Differential Invoicing*.

Effects on Customizing

The following Business Add-Ins are available for this business function:

- *BAdI: Relevance Determination at Document Item Level*. You use this BAdI to perform and adapt the determination of relevant items for differential invoicing. For the BAdI, see Customizing for Materials Management and choose *Purchasing -> Business Add-Ins for Purchasing*. You use this business function to install and activate the BAdI implementation LOG_PO_COMMODITY_RELEVANCE as the default implementation.
- *BAdI: Invoice Validation*. You use this BAdI to define and check the criteria according to which an invoice item relevant for a differential invoice can be posted. For the BAdI, see Customizing for Materials Management and choose *Logistics Invoice Verification -> Maintain Customer Exits and Business Add-Ins*.

See also

For notes on existing restrictions to this business function in the current release version (EHP6), see SAP Note 1584025. The restrictions are described in the constraints documentation attached to this SAP Note.

11.6.2 MM-IV-LIV Logistics Invoice Verification

11.6.2.1 FIN_LOC_CI_14: Posting to Alternative G/L Accounts (Enhanced)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), business function *FI, LO, Localization Topics for Russia 2* (FIN_LOC_CI_14), you can use alternative reconciliation accounts when you enter or park invoices in *Logistics Invoice Verification* (MM-IV-LIV).

You can use this enhanced function in the following transactions:

- *Enter Invoice* (MIRO)
- *Park Invoice* (MIR7)
- *Enter Invoices for Invoice Verification in the Background* (MIRA)
- *Display Invoice Document* (MIR4)

These transactions are available on the *SAP Easy Access* screen under *Logistics -> Materials Management -> Logistics Invoice Verification*.

Effects on Existing Data

On the *Details* tab page of the screens for the four previously-mentioned MM-IV-LIV transactions, the G/L field has been updated as follows:

- The field is open for manual input, which allows you to enter alternative reconciliation accounts as required.
- The input help of the field contains only those accounts for which posting to alternative reconciliation accounts is enabled.

To ensure that this function works, you have to make the reconciliation account ready for input when you maintain the G/L account master data. To do so, on the *SAP Easy Access* screen, choose *Accounting -> Financial Accounting -> General Ledger -> Master Records -> G/L Accounts -> Individual Processing -> Centrally*, and on the *Create/bank/interest* tab page, select the *Recon. acct ready for input* checkbox.

Effects on Customizing

You make the Customizing settings for this function in Customizing for *Materials Management* (MM), under *Logistics Invoice Verification -> Incoming Invoice -> Activate Direct Posting to Alternative G/L Accounts*.

In addition, using the standard Customizing activity, you have to define alternative reconciliation accounts in Customizing for *Financial Accounting (New)*, under *Accounts Receivable and Accounts Payable -> Business Transactions -> Postings with Alternative Reconciliation Account -> Define Alternative Reconciliation Accounts*.

See also

SAP Library for SAP ERP under *SAP ERP Central Component -> Logistics -> Materials Management -> Logistics Invoice Verification (MM-IV) -> Logistics Invoice Verification (MM-IV-LIV)*

11.7 MM-FT Foreign trade

11.7.1 FIN_LOC_CI_14: Export Customs Declarations (Enhanced)

Use

As of SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), business function *FI, LO, Localization Topics for Russia 2* (FIN_LOC_CI_14), the following new functions for export customs declarations are available:

- You can create new customs declarations based on customs declaration data from external systems using remote function call (RFC).
- A new check is made for export customs declarations. The check fails in the following cases:
 - The code of the registering customs office and/or the customs declaration registration date are missing.
 - The full 3-part number (code of the registering customs office, registration date, and external document number) already exists in the customs declaration table.

You can define the severity of the error messages (error or warning) in Customizing.

Effects on Existing Data

The new function module External RFC Interface for Customs Declaration (J3RS_CDEC_EXTERNAL) is available, which allows you to create new customs declarations based on customs declaration data from external systems using remote function call (RFC).

Effects on Customizing

You define the severity of error messages (error or warning) in the Customizing activity **Define System Message Attributes for Customs Declarations**

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See also

SAP Library for SAP ERP under *SAP ERP Central Component -> Financials -> Country Versions -> Europe and Africa -> Russia -> Sales and Distribution (SD) -> Business Transactions -> Export Customs Declarations*