Release Notes
SAP for Telecommunications
SAP enhancement package 4 for SAP ERP 6.0

Copyright

Business Function Telco: Enhanced Billing and Invoicing

TEL_BI_INV_1: Business Function Telco, Enhanced Billing & Invoicing

- **Use**

As of ***SAP ECC 6.0 Industry Extension Telecommunications, Enhancement Package 4***, the ***Business Function Telco, Enhanced Billing & Invoicing*** is available. You can use this business function to access additional functions for billing and invoicing in Contract Accounts Receivable and Payable. You can use these functions to implement specialist billing and invoicing procedures.

Examples of specialist billing procedures are:

- Top up a customer account with an amount that is subsequently cleared against receivables (from consumption).
- Periodic down payment requests that are cleared against receivables from a subsequent billing run.

- **Features**

- **EDRs for Payment, Receivables and Credit Memo Amounts**
  You can use the EDR type AMOUNT for any amounts from payments, receivables or credit memos that you want to process during billing in Contract Accounts Receivable and Payable. In the case of amounts from payments, you can also specify information about the payment method in EDR with the amount. This means that you can for example process the amount from a credit card payment using an EDR of the type AMOUNT. Billing and invoicing this amount produces a receivable that can be cleared using the credit card specified with the corresponding credit card company.
  This means that you can implement a top-up scenario in which your customer can top-up their account with an amount by specifying their credit card details.

- **Billing Account Details**
  You can use the operand types AMOUNT, AMOUNTT and AMOUNTP during billing in Contract Accounts Receivable and Payable to define amounts for billing a billing account independently of EDRs.
  This means that you can define an amount for the billing account that is to be observed periodically during billing (AMOUNTP). You can implement a basic charge scenario in which you bill the customer a fixed amount in each bill.

- **Billing Procedure**
  You can perform billing in Contract Accounts Receivable and Payable in conjunction with a billing procedure. The billing procedure is produced from the billing cycle assigned to the billing account and is part of the main billing procedure.
  You can define different frequencies for billing for each billing procedure in a main billing procedure. This means that for a main billing procedure with annual billing, you can for example define an additional billing procedure with monthly billing. The system allows you to use monthly billing to generate down payment requests for a billing account and create annual billing of the actual receivables for the same billing account.

- **Calculation in Invoicing**
  You can use the new invoicing function OFFSET_REQ to flag amounts from down payments for a contract account for subsequent calculation during invoicing. You can use the invoicing function OFFSET to calculate amounts from receivables for a contract account during invoicing against amounts you have flagged.
  Both amounts that you flag for calculation and those that you instruct the system to calculate can reference specific items in the billing documents to be invoiced.

In a billing document to be invoiced you can process both standard receivable items and items that are to be flagged or that are to be calculated.
You can use various calculation reference keys for a contract account to control this calculation in great detail. You can for example flag the amounts for a down payment request generated during billing as a billing account for calculation. You can also calculate the actual subsequent receivables for the billing account.
If you are using several billing accounts for a contract account, the system performs calculation for each billing account.

- **Billing and Invoicing for Event-Based Deferred Revenues**
  You can use the new invoicing function DEF_REV_BY_E to perform event-based posting for deferred revenues. You can post invoiced services that are only to affect the revenue when an event occurs to a separate revenue account. These services are posted to the actual revenue account once the revenue-relevant event occurs.
  You can also trigger the event that triggers this posting by billing a corresponding EDR.

- **Billing and Invoicing for Amounts With Different Original Currencies**
  You can process EDRs with different amount currencies in a billing document and convert and post these to an invoicing currency during invoicing.

- **Billing and Invoicing of Gross Amounts**
  You can receive amounts to be billed as gross amounts in EDRs. When the system invoices the gross amounts, it calculates the tax amount they contain and posts this to a corresponding tax account as tax.

- **Extraction of EDRs**
  This business function provides you with an extraction process that you can use to extract EDRs to SAP Netweaver BI.

- **Contract Account-Specific Invoicing**
  You can use contract account-specific invoicing to perform periodic processing of contract accounts by invoicing (invoicing process) independently of source documents (such as billing documents). You can for example convert periodic interest calculation for open items in a contract account.

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- **See also**

For more information, including information about changes to the user interface, see the following release note:

- **EDR Transfer and Demand-Driven Billing Orders**

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Deferred Revenue Postings

- **Use**

Revenues are posted when a receivables document is posted. These revenues become effective in the posting period in which they are actually posted. This means that these revenues are assigned to the posting period in which they are posted. The regulations in some countries are that revenue accruals/deferrals have to be entered in the general ledger for revenues that do not become effective until some time in the future. Revenues become effective in the future, if the service upon which the revenue is based is actually performed in the future. Recognition of revenues is therefore independent of invoicing. Revenues and accrued/deferred revenues must be posted to separate general ledger accounts.

SAP provides functions for **time-based deferred revenues** as of release 4.51. For time-based deferred revenues, the time of revenue recognition, including the amounts to be transferred, are already known at the time of invoicing. Therefore, this information can be noted already at the time of invoicing. The G/L transfer postings are created by a mass activity.

As of SAP ECC 6.0, Enhancement Package 4, Contract Accounts Receivable and Payable provides functions for posting event-based deferred revenues. For event-based deferred revenues, neither the time nor amount for revenue recognition is known at the time of invoicing. This means that each event that triggers revenue recognition must be reported to the SAP system, along with the date and amount.

The functions for event-based deferred revenue use the following four, new database tables, belonging to three different categories:

- The header table ***DFKKDEFREV_HEAD*** contains an entry for each G/L posting for which the functions for event-based deferred revenue should be used.
- The item table ***DFKKDEFREV_POS*** contains the information for the initial transfer from the revenue account to the G/L account for deferred revenue.
- The trigger tables ***DFKKDEFREV_TRIG*** and ***DFKKDEFREV_TRIGE*** contain the information about the reported events (DFKKDEFREV_TRIG: revenue recognition/DFKKDEFREV_TRIGE: check date) that is processed by the transfer run for deferred revenues.

Interface

SAP provides the following function modules that you can use to implement the functions for event-based deferred revenues:

- ***FKK_DEFREV_BY_EVENT_CREATE***
  The module registers the desired G/L items when an FI-CA document is posted, and thereby activates further processing of these G/L items in the context of event-based deferred revenues.
- ***FKK_DEFREV_BY_EVENT_RAISE***
  The module reports the events (with date and amount).

In the standard system, these function modules are called from invoicing. Invoicing documents arise from billing documents, which in turn can be created using event detail records (EDRs).

Reporting Events

When an event is reported to the SAP system, the system generates a trigger table entry (***DFKKDEFREV_TRIG***/***DFKKDEFREV_TRIGE***).

The transfer run for deferred revenues processes these entries.

Note

It is possible that an event could be reported for an assignment key, although no related assignment key exists in the SAP system. In that case, the event is not processed by the transfer run until the related header entry is available.

Transfer Posting Run

There is a mass activity in Contract Accounts Receivable and Payable that makes the transfer postings for deferred revenue in the general ledger (on the SAP Easy Access screen, choose ***Periodic Processing -> Closing Preparation -> Receivable/Revenue Adjustment -> Event-Based Deferred Revenues -> Transfer Posting Run***).

The mass activity executes the following steps:

1. The system converts the reported events (entries in tables ***DFKKDEFREV_TRIG*** and ***DFKKDEFREV_TRIGE***) into item entries (***DFKKDEFREV_POS***). At the same time, the system adjusts the relevant fields in the table containing the header entries (***BETRA***, ***BETRO***, ***ENDIN***, ***CHCKD*** in table ***DFKKDEFREV_HEAD***).
2. Then the system processes the entries in the item table (***DFKKDEFREV_POS***) and generates transfer documents. The following transfers are possible:

- Posting from the revenue account to the account for deferred revenues (for example, initial transfer, which transfers the entire revenue from the revenue account to the account for deferred revenues)
- Posting from the account for deferred revenues to the revenue account (for example, at revenue recognition)

Adjustment Run

You report already recognized revenues using the adjustment run - assuming the feeder system did not already do so. On the SAP Easy Access screen, choose ***Periodic Processing -> Closing Preparation -> Receivable/Revenue Adjustment -> Event-Based Deferred Revenues -> Adjustment Run***.

Example

- The end of a header entry for an assignment key (DFKKDEFREV_HEAD-ENDIN = 'X') is reached or the check date (DFKKDEFREV_HEAD-CHCKD) is past.
- The remaining amount that is still to be transferred (DFKKDEFREV_HEAD-BETRA) is not zero.
  The adjustment run offers the following options at event 1146 for each selected header entry:
  - Report the amount still to be transferred
    The system creates an entry in table ***DFKKDEFREV_TRIG***.
  - Adjust the check date
    The system creates an entry in table ***DFKKDEFREV_TRIGE***.
  - Process manually
    The user decides, for each header entry, if a new check date is set or if the amount still to be transferred is reported.
    You should use this function only for test purposes, since it is not suitable for processing mass data.

The adjustment run generates the events that are processed by the next transfer posting run. We recommend that you execute the adjustment run immediately after processing the transfer posting run.

Additional Functions

In the document display transaction, you can display the most important attributes of deferred revenue postings by choosing ***Extras -> Deferred Revenues***.

Write-Off

If you want to write off documents (SAP Easy Access screen: ***Account -> Write-Off Items***) for which event-based deferred revenues were posted, you first have to take the following steps:

- Register function module ***FKK_DEFREV_BY_EVENT_WOFF_0020*** at event 0020.
- Register function module ***FKK_DEFREV_BY_EVENT_WOFF_0030*** at event 0030.

If you register these function modules, then, when you write off amounts, events (***DFKKDEFREV_TRIG***) are automatically reported to the SAP system. These events contain, as information, the write-off document that was created at the time of the write-off. Using these events, the system reports the write-off amount proportionally to the relevant assignment keys.

If you do not want the write-off process to influence the processing of event-based deferred revenues, then do **not** register these two function modules at events 0020 and 0030. These function modules are not registered in the standard system.

Test of the Function

You can use the report ***TEST_DEFREV_TABLE_ENTRIES*** to test the processing of event-based deferred revenues. Using this report, you can create a list of all DFKKDEFREV* table entries for an assignment key. To test the reporting of an event (revenue recognition), you can use report ***TEST_DEFREV_RAISE_EVENT***.

- **Effects on Customizing**

Make the following settings in Customizing for Contract Accounts Receivable and Payable:

- Define account determination for deferred revenue under ***Business Transactions -> Deferred Revenue Postings ->*** **Maintain Account Determination for Deferred Revenue Postings**.
- Specify the document type for the documents created by the transfer posting run by choosing ***Business Transactions -> Deferred Revenue Postings ->*** **Maintain Default Values for Transfer Posting Run**.
- Enter an alternate cost center under ***Business Transactions -> Deferred Revenue Postings -> Exchange of No Longer Valid Account Assignments ->*** **Assign New Cost Center**.
- Enter an alternate profit center under ***Business Transactions -> Deferred Revenue Postings -> Exchange of No Longer Valid Account Assignments ->*** **Assign New Profit Center**.

EDR Transfer and Demand-Driven Billing Orders (New)

- **Use**

As of SAP ECC 6.0, Enhancement Package 4, you can create **demand driven billing orders** during the transfer of EDRs.

- **Effects on Existing Data**

There are no changes for existing EDRs.

- **Effects on Data Transfer**

For the EDR categories provided by SAP, the BAPIs for transfer have been enhanced so that they can generate demand-driven billing orders. If you have defined customer-specific EDR categories, you also have to adjust the corresponding function module. To do this, you can use the samples provided by SAP - for example, BAPI BAPI_EDR_TCOLL_CREATEMULTIPLE and the class used there CL_FKKBI_EDR_TC_BAPI. In this class, the following methods have been enhanced for demand-driven billing:

- New instance attribute T_BILLTASK of category FKKBIBILLTASK_TAB.
- New component T_DFKKBIBILLTASK of category DFKKBIBILLTASK_TAB in local category TY_UPDATE_DATA.
- In method MAP_EDRS, when method GET_BILLACCOUNT_LOADTIME is called from class CL_FKKBI_EDR_HELP_LOAD, the import parameter IM_EDRTYPE is filled. Any generated billing orders (export parameter EX_BILLTASK_TAB) are copied to instance attribute T_BILLTASK.
- In method UPDATE_PREPARE, duplicates are avoided by calling method CL_FKKBI_BILLTASK=>REDUCE_BY_EXISTING and exported using parameter EX_UPDATE_DATA. The key of the new billing orders are exported using the new parameter EX_BILLTASKKEY_TAB.
- The method SAVE calls the function module FKK_BI_BILLTASK_CREATE to update billing orders. The method exports the key of the new billing orders using the new export parameter EX_BILLTASKKEY_TAB.
- The function module BAPI_EDR_TCOLL_CREATEMULTIPLE receives the key of the billing orders from method SAVE and exports it.

- **Effects on Customizing**

You activate the generation of demand-driven billing order during the transfer of EDRs in Customizing for Contract Accounts Receivable and Payable under Integration –> Billing in Contract Accounts Receivable and Payable –> Billing –> Settings for Demand-Driven Billing –> Define Demand-Driven Billing for EDRs.

If you do not use this table, demand-driven billing orders are not generated during the transfer of EDRs. You do not have to change the functions for transferring customer-specific EDR categories.

If you do edit this table, demand-driven billing orders can be generated during the transfer of EDRs. In this case, you have to change all functions for transferring customer-specific EDR categories.

Business Function Telco, Contract Accounts Receivable and Payable 2

TEL_CA_2: Telco, Contract Accounts Receivable and Payable 2 (New)

Use

As of *SAP ECC 6.0, Industry Extension Telecommunications, Enhancement Package 4 (IS-T 604)*, the business function ***Telco, Contract Accounts Receivable and Payable 2 (TEL_CA_2)*** is available.

This business function contains enhancements to Contract Accounts Receivable and Payable for installment plans, revenue distribution, processing locks, credit card payments, and automatic clearing. In the mass activities, you can make preselections, create generic variants, and define log classes. You can use ledger groups for doubtful entries or individual value adjustments, and new archiving objects have been created for revenue distribution, as well as for doubtful entries or individual value adjustments. Event-based revenue recognition is also possible. The addition of the payment and returns history to the data extraction process improves system support for decision-making based on SAP NetWeaver Business Intelligence (SAP NetWeaver BI). The enterprise service for connecting to external cash desks has been enhanced and an additional enterprise service has been created for connecting to legal dunning. Additional functions are also available in SAP Collections Management.

Effects on Existing Data

The business function includes new and changed functions in the following automatic roles (PFCG roles):

- IS-T-CA - Receivable and Payment Processing (SAP_EP_IST_FICA_ACC)
- IS-T-CA - Credit and Collections Management (SAP_EP_IST_FICA_COLL)
- IS-T-CA - Administrative Processing (SAP_EP_IST_FICA_ADM)
- IS-T-CA - Closing Operations and Check (SAP_EP_IST_FICA_CLS)

Automatic Clearing

Use

Automatic Clearing: Grouping and Iterative Clearing

As of SAP ECC 6.0, Enhancement Package 4, you can summarize the items selected for a business partner or contract account in groups in the new event **0591**. The system then calls the clearing control per group and can then, when there are suitable postings, post several clearing documents.

Items that can only be partially cleared or not cleared after grouping and assignment, you can group again in an iterative process so that, in a subsequent call, clearing control has the opportunity to assign the items again. This means that you can define a series of groupings with a decreasing level of detail and clear an item in a single run in several steps with several partial clearings.

You can return messages for the grouping logic and these are written in the application log.

The new event also enables you to define a clearing document type for the current clearing; this overrides the clearing document type entered in the parameters.

Effects on Customizing

Register your function module for event 0591 in Customizing for Contract Accounts Receivable and Payable under ***Program Enhancements* -> Define Customer-Specific Function Modules**.

Information Container

Use

As of SAP ECC 6.0, Enhancement Package 4, you can use the following enhancements for information containers:

- If the receivers of information container entries are already known when the entries are created, then you can enter these using event **3701**. Until now, the a maximum length of receiver values was three characters. Now you can return receivers with a length of up to 60 characters. Implementations that have the old structure remain valid; however, there are the following changes:
  - In event 3701, for the reference type for the export parameter ***ET_RECEIVERS***, you can also use ***INFCOREC_KK_T*** instead of ***R CVER_KK_T.***
  - In events **3702**, **3703** and **3704**, for the reference type for the import parameter ***IV_RECEIVER***, you can now use ***INFCOREC_KK_T*** instead of ***RCVER_KK_T.***
  - In interface ***IF_FKK_INFCO_TYPE***, which you use when creating your own information container categories, the methods ***GET_DATA_SEND*** and ***SEND_VIA_XI*** each now also contain the new, optional import parameter ***IV_RECEIVER_LONG***.
  - The existing import parameter ***IV_RECEIVER*** remains unchanged, for reasons of compatibility.
- The method ***GET_DATA_STORE*** of interface ***IF_FKK_INFCO_TYPE***, which you use when creating your own information container categories, was enhanced by adding export parameter ***ET_DATA_RECEIVER***. Using this parameter, you can enter the receiver of information container entries. You can now thereby enter the receivers for your own information container categories directly in the method ***GET_DATA_STORE*** instead of in event 3701.

Installment Plan

Use

Installment Plan Enhancement for Surcharges/Interest

As of SAP ECC 6.0, Enhancement Package 4, you can use the following installment plan enhancements for surcharges and interest:

- When creating an installment plan, you have the option of calculating inflation surcharges and/or installment plan surcharges (either manually or automatically). (See the IMG activities **Define Categories for Installment Plan** and **Define Charge Categories for Installment Plan Surcharges**.)
  At event **3033**, you can influence the main transaction and subtransaction, as well as the charge amount, dependent on the surcharge category.
- When creating an installment plan, you have the option of having the system calculate interest on original items up to the start date of the installment plan (default value) or up to any point in time you choose.
- When creating an installment plan, you can specify the percentage amount of the total amount that is used for the first installment, thereby specifying the amount of first installment. The remaining amount is then distributed accordingly over the remaining installments. (See the IMG activity **Define Categories for Installment Plan**.)

The following functions are also available for processing installment plans:

- When creating an installment plan, you can include partial amounts.
- In addition to the installment plan interest calculation (from the start date to the due dates of the installment plan), you can trigger an interest calculation on original items up to the start date of the installment plan. (See the IMG activity ***Define Categories for Installment Plan***.)
- You can specify a clearing type for clearing original installment plan items (see the IMG activity ***Define Categories for Installment Plan***). The system uses this clearing type for distributing a clearing amount to the original items of this installment plan.

Effects on Customizing

You can make the following settings in Customizing for Contract Accounts Receivable and Payable under ***Business Transactions -> Deferral and Installment Plan***:

- **Define Categories for Installment Plan**
  In this activity, for each installment plan category you define whether:
  - There should be an additional item interest calculation up to the start date
  - A special clearing type is to be used for clearing installment plan original items
  - The first installment is to be determined on a percentage basis
  - The charges categories defined are to be used for installment plan surcharges and whether these are to be triggered manually or automatically
- **Define Charge Categories for Installment Plan Surcharges**
  In this activity you define the charge categories for the installment plan surcharges.

Integration

Use

Disputes with External Processing

As of SAP ECC 6.0, Enhancement Package 4, when you create dispute cases in Contract Accounts Receivable and Payable, you can specify that the dispute cases are not processed in ***SAP Dispute Management***, but are processed instead in an external component.

The dispute cases can be created in the external component and sent to Contract Accounts Receivable and Payable.

You can also create these dispute cases in Contract Accounts Receivable and Payable or in ***SAP Biller Direct*** and then send them to the external component using a report you schedule to run on a periodic basis.

The dispute cases are processed in the external component. (This processing includes changes to amounts, addition of further documents, changes of attributes or status).

With ECC 6.0, Enhancement Package 4, SAP provides integration with ***CRM Dispute*** of ***SAP Customer Relationship Management*** 7.0 as an external component.

Funds Management

As of SAP ECC 6.0, Enhancement Package 4, if you subsequently want to integrate the ***Funds Management*** (PSM-FM) component of ***Public Sector Management*** with Contract Accounts Receivable and Payable (FI-CA), or if you want to post to further company codes that were previously not assigned to an FM area with active FM integration, you can write the required FM account assignments to all documents created before the integration with FM.

For detailed information about the conversion of existing documents, see the IMG activity **Define FM Account Assignment for Subsequent FM Activation**.

Effects on Customizing

Dispute Management

Processing by an external component requires new case types in ***FSCM Dispute Management***, since the ID of the external object (the CRM dispute case) must be recorded in the case record.

You define new case types in Customizing for Contract Accounts Receivable and Payable under ***Integration -> Financial Supply Chain Management -> Dispute Management -> Basic Settings for Dispute Management*** in the ***Definition of Own Case Types with External Processing*** group box.

Funds Management

You enter FM account assignment for a **subsequent FM activation** in Customizing for Contract Accounts Receivable and Payable under ***Integration -> Funds Management (PSM-FM)***.

Country-Specific Development: Italy

Use

As of SAP ECC 6.0, Enhancement Package 4, you can levy Bollo for customers with a tax exception.

The system always posts Bollo if the total of the items excluded from tax and the Bollo-relevant items exceeds the amount of EUR 77.47. It is irrelevant whether it is a debit or credit item. Only the absolute amount is decisive. The bollo amount is EUR 1.29.

Bollo is can be levied for the following items that are excluded from tax.

- Cash security deposits
- Interest
- Items that would otherwise be taxed but that are excluded from tax for a specific customer group (tax exception)

Bollo cannot be reversed. This also means that the reversal of a Bollo-relevant posting does not reverse the Bollo posting.

Bollo is only posted from the FI-CA programs if function module ***FKK_CHECK_CALC_BOLLO_INTERN*** is registered for event 0100 (see Customizing for Contract Accounts Receivable and Payable: ***Program Enhancements -> Define Customer-Specific Function Modules***).

Effects on Customizing

You define the system settings for posting stamp tax (Bollo) in the Implementation Guide for Contract Accounts Receivable and Payable under ***Basic Functions -> Special Features of Tax Processing -> Stamp Tax (Bollo) (Italy)***.

Locks

Use

As of SAP ECC 6.0, enhancement package 4, for processing locks, you can:

- Define default values for the duration of a lock in Customizing
  The system uses the values you enter as the default date if you create a processing lock without specifying the length of its validity period.
- Use the new authorization object ***F_KKLCK_BG*** to check authorization at the lock reason level
  In Customizing, you define an authorization group for the desired lock reasons.
- Perform a customer-specific plausibility check at event **1804** when creating and changing processing locks

Effects on Customizing

Define the appropriate settings in the Implementation Guide for Contract Accounts Receivable and Payable as follows:

- ***Basic Functions -> Postings and Documents -> Basic Settings ->*** **Define Lock Reasons for Posting Locks**
- ***Business Transactions -> Payments -> Incoming/Outgoing Payment Creation ->*** **Define Payment Lock Reasons**
- ***Business Transactions -> Interest Calculation -> Item Interest Calculation ->*** **Define Interest Lock Reasons**
- ***Business Transactions -> Dunning ->*** **Define Dunning Lock Reasons**
- ***Business Transactions -> Inbound Correspondence Dunning ->*** **Define Correspondence Dunning Lock Reasons**
- ***Integration -> Invoicing in Contract Accounts Receivable and Payable -> Invoicing -> Invoicing Processes ->*** **Define Lock Reasons for Invoicing**

Mass Activities

Use

Categorization of Messages in Mass Activities

As of SAP ECC 6.0, Enhancement Package 4, you can now configure the problem class of messages in the application log of mass activities in Customizing.

This means, for example, that you can classify messages that are issued for problem class “medium” in the standard system so that they are only issued for problem class “additional log”. In this way, you can influence the level of detail of the application log.

Messages that the standard system sends as "very important" are nonetheless always sent as "very important."

Additional Characteristics

You can use an additional characteristic to classify a run of a mass activity beginning in SAP ECC 6.0, Enhancement Package 4. The interpretation of the additional characteristic takes place exclusively in customer-specific event modules of the given mass activity. This makes it possible to have your own specific procedures for runs that you have assigned certain attributes.

Effects on Customizing

Categorization of Messages in Mass Activities

You set the problem class of messages in Customizing for Contract Accounts Receivable and Payable under ***Technical Settings -> Specifications for Problem Classes of Messages ->*** **Assign Problem Classes to Messages**. For each mass activity and message, you can define the required problem class.

To ensure that the maintenance of this table contains a list of the messages appearing, in the activity **Activate Recording of Messages** in the same section, you can define that the system writes a trace of the messages appearing for a specific mass activity up to a specific date.

The messages recorded here are available in the input help in the activity ***Assign Problem Classes to Messages***. However, if you know the message number, you can also make entries directly without having activated the trace.

Additional Characteristics

You can enter additional characteristics for each mass activity in Customizing for Contract Accounts Receivable and Payable under ***Technical Settings -> Define Additional Characteristics for Mass Activities***.

Master Data

Use

Changing the Bank Data of a Business Partner

Determining Follow-Up Actions

The system determines the set of rules to be used based on your settings in Customizing for Contract Accounts Receivable and Payable under ***Basic Functions -> Contract Partner -> Changes to Payment Transactions -> Settings for Follow-Up Actions -> Define Set of Rules for Follow-Up Actions***. For determining the set of rules, the system uses the standard company code of the contract accounts and contracts that are affected by the change to the payment data.

Once the set of rules is determined, then the system determines the rules dependent on the current operating mode (display, change, delete).

Displaying Follow-Up Actions

As of SAP ECC 6.0, Enhancement Package 4, the system no longer displays the follow-up actions in the hierarchy under ***Company Code Group*** and ***Set of Rules***, but instead lists them directly under ***Company Code***. If a follow-up action is assigned to several sets of rules, and these sets of rules are active in the same company code, then the system displays the follow-up action only once in each company code.

The system now lists the objects affected by a follow-up action (such as, locks, dunning notices, or returns) directly under the follow-up action, and independently of the set of rules.

If you execute a follow-up action, then the system performs the activities for all affected objects (that are displayed in the dialog).

The system lists a follow-up action only if it can determine at least one affected object for it.

Processing Incoming and Outgoing Payments

Use

As of SAP ERP 6.0, Enhancement Package 4 (Release 6.04), you can now use BIC and IBAN both in payment lots and in transfer programs for creating payment lots. You can use BIC and IBAN, which are commonly used in international payment transactions, rather than the bank number and bank account number.

When you search for payments in the payment lot, you can use the IBAN as a search criterion in addition to the bank account number.

Payment Transactions

Use

Payment Run: Use of Preselections for Business Partners or Contract Accounts

As of SAP ECC 6.0, Enhancement Package 4, you can now also use preselections for master data in the payment run to select business partners or contract accounts.

Up to now you could use these selections in the items list, for example (see ***Periodic Processing -> Open Item Evaluations -> Execute Evaluation***).

To create preselections, on the SAP Easy Access screen, choose ***Technical Preparation -> Define Preselection*** and create a set of master data using any master record attributes, for example, all business partners with an address in Chicago.

The system then checks the master records specified in the preselection against the interval limits of the mass activity as if they had been entered as individual values for business partner/contract account so that in each interval, only those master records are processed that are in the interval limits and the preselection.

Payment Run: Set Paying Contract Account

At event 0663, you can override the paying contract account from the master record of the contract account. For detailed information, see the documentation of the **sample function module** .

Effects on Customizing

Define event 0633 to meet your needs in Customizing for Contract Accounts Receivable and Payable under ***Program Enhancements*** **-> Define Customer-Specific Function Modules**.

Payment Cards

Use

Payment Card Billing: Parallel Online Billing

Until now, the billing of payment card payments always took place using report ***RFKKPCDS*** (on the SAP Easy Access screen under ***Periodic Processing -> Data for Externals -> Payment Card Organizations -> Settle***). This report does not use parallel processing. It creates a file with the selected payments.

As of SAP ECC 6.0, Enhancement Package 4, you also have the option of using parallel processing for billing payment card payments (as a mass activity). On the SAP Easy Access screen, choose ***Periodic Processing -> Data for Externals -> Payment Card Organizations -> Parallel Billing by Direct Call***. The system does not create a file when you use this variant. Instead a new event (1421) is made available for the payments being settled. The payments are grouped by card institute, company code, agent ID, currency and value date. The new event allows online billing with immediate return of the result (that is, billing was successful or unsuccessful, with the appropriate error message). The system stores any errors that occur. The errors are displayed in the document display for the payment document. The mass activity can select payments with errors, in addition to the payments for billing. These payments with errors are payments for which billing was unsuccessful during the last attempt.

The system stores the results of the billing run in the existing log tables under the ID of the mass activity.

The parallel processing object for this mass activity is the ***Subarea*** (KEYPP) field. You have to add this field to the table of payment card data (DFKKOPKC) beforehand using a prepared enhancement using report ***RFKK_ENH_CCARD***.

Effects on Customizing

Include the ***Subarea*** (KEYPP) field in the table of payment card data (DFKKOPKC) in Customizing for Accounts Receivable and Payable by choosing ***Program Enhancements -> Prepared Enhancements ->*** **Prepare Parallel Processing for Payment Card Data**.

Posting and Clearing

Use

Postings and Documents: Withholding Tax Supplements with Negative Percentage Rate

As of SAP ECC 6.0, Enhancement Package 4, you can also define negative percentage rates for withholding tax supplements. This enables you to reflect reductions in the actual withholding tax to be withheld. However, you cannot use negative percentage rates if you enter the values directly in the document. (For information on direct entry, see the next section.)

Postings and Documents: Variable Specifications for Withholding Tax/1099

As of SAP ECC 6.0, Enhancement Package 4, you can specify the percentage rate, base amount, and tax amount directly in the line item for withholding taxes. These specifications are always at the level of a withholding tax supplement.

The enhancement enables you to effect withholdings at the level of the business partner item.

Functions of the Previous Versions

Currently you can already reflect several withholding tax deductions in parallel. To do this you use the withholding tax supplements. On payment, you can post one withholding for the withholding tax code, and a further withholding for each combination of withholding tax code/withholding tax supplement. The amounts are determined exclusively using the gross or net amount of the open item and the calculation rules defined in Customizing.

Detailed Functions As of EhP4

As of SAP ECC 6.0, Enhancement Package 4, for each combination of withholding tax code/withholding tax supplement, you can define in Customizing whether:

- The percentage rate is specified individually for each line item
- The base amount is specified individually for each line item
- The tax amount is specified individually for each line item

You can also select whether the withholding tax supplement must be specified for a line item, or whether this specification is optional.

For all details that are not marked for individual specification, the system calculates, as before, using the existing rules.

The remaining details are stored as a supplement to the line item and used when the withholding tax is calculated at the time of payment.

Withholdings Only with Directly Defined Values

You can only define the withholdings for a withholding tax supplement directly; the system calculates the withholding for the withholding tax code using the rules in Customizing. If you want to work exclusively with variable withholdings, you have to make sure that nothing is withheld for the withholding tax code itself. You can do this by defining a tax rate of 0% or by defining the portion subject to tax as 0%.

If you only define a tax rate of 0%, no line item is created, but an entry is made in the table with the reporting data for the withholding tax (***DFKKQSR***). If you define a portion subject to tax of 0%, the system does not create an entry.

Manual Entry of Documents

When you enter a line item for a contract account and the following prerequisites are met, after you enter the line item, the withholding tax code from the contract account is set automatically and, following the withholding tax code, a pushbutton appears that you can use to enter the details of the withholding tax supplements:

- A withholding tax code is defined in the contract account for own withholdings.
- The main/subtransaction used permits withholding tax withholdings.
- The withholding tax code defined in the contract account permits variable specifications per item.

Supplements for 1099 Reporting (USA)

For withholdings for outgoing payments that have to be declared in a form 1099, you have access to relevant data in table ***DFKK1099***. The recording of the data is controlled by function modules that you have to register for events **1970** and **1971**.

Event 1970 has been enhanced such that the new return parameter ***E_SPLIT_SUPPLEMENTS*** specifies whether separate records are to be recorded for each withholding tax supplement. You should select this option if you create withholding tax codes and withholding tax supplements such that

- Each 1099 form corresponds to a withholding tax code
- Each amount field on the form corresponds to a withholding tax supplement

- In this case, in Customizing you can specify an explanation for the combination of withholding tax code/withholding tax supplement that identifies the form and the field on the form. As of SAP ECC 6.0, Enhancement Package 4, the following information is added to the data recorded in table ***DFKK1099*** (the system stores this information for each withholding tax supplement separately):
- ***QSSEW*** - Key of the withholding tax supplement
- ***STPRZ*** - Withholding tax percentage rate
- ***SBASH*** - Withholding tax base amount

Irrespective of the type of recording, the new field ***AUGBD Posting Date of Clearing or Clearing Reset*** is always set.

Open Item Processing – Subtotals when Filtering

In the user-specific settings, you can define that a subtotal is displayed after the items determined when you filter items.

Example: If you filter using the reference number, and search for all items with reference number 4711, the total is displayed beneath the items found.

By double clicking the gross amount in the totals line, you can activate or deactivate all filtered items. By double clicking on the cash discount amount, you can activate or deactivate the cash discount for all filtered items.

Effects on Customizing

Postings and Documents: Variable Specifications for Withholding Tax

You can specify withholding tax supplements so that you can make variable specifications for each line item. In Customizing for Contract Accounts Receivable and Payable, choose ***Basic Functions -> Withholding Tax ->*** **Define Withholding**

Tax Supplement.

Extended Use of the Profit Center in Contract Accounts Receivable and Payable

Use

As of SAP ERP 6.0, Enhancement Package 4 (Release 6.04), you can make account assignment to profit centers not only for expense and revenues, but also for other line items. The enhancements affect:

- Postings to bank account, bank clearing accounts, cash accounts
- Postings to receivables accounts, liabilities accounts, and down payment accounts
- Postings to tax accounts

Detailed information for each of these three groups is provided below. In all cases it is important to note that account assignment to a profit center is only possible if the field status group of the G/L account allows account assignment of this type. The field status group is entered in the G/L account master record.

Profit Centers in Postings to Bank Accounts and Bank Clearing Accounts

If the enhancements for Enhancement Package 4 for Contract Accounts Receivable and Payable are activated, then it is possible to post account assignments to profit centers in bank posting or cash journal posting in the following processes:

- Payments and debit memos resulting from the payment program
- Payments using payment lot, check lot, credit card lot
- Payments using the cash desk or cash journal
- Payments using external cash desks
- Returns

This text describes below how you can enter a profit center in the processes mentioned. In all cases, you must assign the profit center directly to the item on the bank account or cash account, regardless of which profit centers are posted in the paid items or in the payments on account.

From the viewpoint of the general ledger, this results in related receivables and payables on the affected profit centers. If you made the appropriate settings for the new general ledger, then the system automatically creates clearing items for these receivables and payables on the affected profit centers during the general ledger transfer.

Payment Program

The bank clearing account is determined using **posting area 1061**. There you can now enter a profit center in Customizing, in addition to the account number and the business area.

Payment Lot, Check Lot, Credit Card Lot

The ***Profit Center*** field is now available in the lot header, as well as in each lot item. During posting, an entry in an item takes precedence over an entry in the header.

If you enter or change a lot manually, you can enter the profit center directly.

If you are using sequential files to generate the lots, you can enter the profit center in the corresponding structures - BFKKZK for the header of the lot and BFKKZP for the lot item.

If you generate payment lots from the electronic bank statement, then the system copies the profit center from the items of the bank statement (table FEBEP). The events **0953** and **0954** allow you to set the profit center for the payment lot header or payment lot item to a different value.

The profit center that was entered on the payment lot is also used for a posting to a clarification account.

Cash Desk, Cash Journal

When payments are entered, the system can propose a default profit center in the same way that it proposes a company code or business area.

What is new is that you can now enter default values for the business area and for the profit center in Customizing. You make these entries in table TFK100K. You can enter default values there at the level of the cash desk, the office, or the company code.

External Cash Desks

For payments using external cash desks, you can set the profit center using events **6200** or ***6210***. The new sample module **FKK_SAMPLE_6210_TFK100K** is provided for event 6210. If you register this module, then the values stored in Customizing in table TFK100K are copied. (See also the section for Cash Desk.)

Returns

If you enter the returns lot manually, you can enter profit centers both at the header level and at the item level. Just as in the payment lot, the entry in the item takes precedence.

If you are using sequential files to generate the lots, you can enter the profit center in the corresponding structures - BFKKRK for the header of the lot and BFKKRP for the lot item.

If you generate returns lots from the electronic bank statement, then the system copies the profit center from the items of the bank statement (table FEBEP). The events **0963** and **0964** allow you to set the profit center for the returns lot header or returns lot item to a different value.

The profit center entered in the returns lot is used for posting to a clarification account, and is also used as a standard value for receivables for charges, along with expense and revenue from charges.

Profit Center for Payables, Receivables, and Down Payments

The profit center can now be used for account assignment in line items that post to a business partner. The same applies here as stated above - namely that this account assignment is not possible unless the field status group of the assigned G/L account does not suppress the ***Profit Center*** field.

Since the ***Profit Center*** field did not exist in the business partner items before Enhancement Package 4, the setting for it in the field status group (profit center allowed or not) was not relevant. Accordingly, it is not safe to assume, based on the current setting in your system, whether or not you want account assignment to profit centers in the future.

Therefore, a new Customizing setting was introduced at the level of the company code, where you can specify if you want to allow account assignments to profit centers for business partner items. You make this setting in table TFK001B. Only if you allow the account assignment using this setting is there a resulting check of the field status group. This also makes it possible to have potentially different treatment of different receivables accounts, liabilities accounts, and down payments accounts.

We would also like to point out that there are differences between FI-CA and classic Acounts Receivable (FI-AR) and Accounts Payable (FI-AP). In classic Acounts Receivable and Accounts Payable, it is not possible to post account assignment to a profit center on customers or vendors. Instead, if you made the appropriate settings for the new general ledger, the system assigns profit centers and distributes amounts to profit centers automatically in related subsequent items that are used for updatin the general ledger.

The following section describes some typical business transactions where business partner items are posted, with an explanation of how the system determines the profit center that is posted.

Invoices and Credit Memos

Normally profit centers are derived or defaulted for revenue and expense items. What is new here is that the profit center that was determined in this way is inherited by the receivable or payable. If revenue or expense items occur for different profit centers, the result can be that more business partner items arise in total, because there is no merging of multiple business partner items with different profit centers.

Inheritance of the profit center from the offsetting items applies for posting using requests and for all current invoicing programs (invoicing in Contract Accounts Receivable and Payable, invoicing using SD interface, IS-U invoicing, payment plan interface of the Industry Solution Insurance).

Down Payment Requests and Budget Billing Requests

When you enter requests manually, you can enter the profit center directly. You can enter default values and values for automatic creation (such as budget billing requests in the industry component Utilities) in the new posting area 0310.

Payments on Account and Down Payments (Without Down Payment Request)

The profit center is set using a module for event **event 0114**. If you do not register your own function module, the system processes the standard function module ***FKK_SAMPLE_0114***. This module adopts the profit center from the first G/L item of the document. This is the line item on the bank account, bank clearing account, or cash account.

Down Payments, Budget Billing Payments, Cash Security Deposits (with Request)

Down payments, budget billing payments, and cash security deposits that arise due to clearing of requests adopt their profit center from those requests.

Charges Receivable (Returns)

The system determines the profit center for a charges receivable from the paid items and the items on account of the payment document. For each profit center concerned, the system calculates the total amount that arises for it (absolute amount without positive/negative sign). The profit center with the highest total amount is then adopted by the charges receivable.

If the system is not able to determine a profit center in this way, then the profit center from the bank posting/bank clearing posting of the payment document is used.

If that line item also does not contain a profit center, then the system adopts the profit center entered in the item of the returns lot.

Charges Receivable (Dunning)

For dunning charges, the system determines the profit center using event **Zeitpunkt 0363**. If you use standard function module ***FKK_SAMPLE_0363***, then the dunned items are grouped by profit center, and the profit center is determined from the group with the highest amount.

Transfer Open Items

In the case of the transfer of open items, the profit center is inherited from the item being transferred.

Open Items from Clearing Reset

For clearing reset, there are different options:

- If only one new open item is generated due to a reset, then the system adopts its account assignments, including the profit center, from one of the items that was previously cleared.
- If the distribution to accounts is kept, and there are different profit centers in the previously cleared items, this results in various new items, each of which contains the profit center of the item cleared previously.
- If (in the case of a payment document) the amount is returned to the clarification account, then this posting receives the profit center from the related payment lot item.

Derived Posting Items

When open items are cleared, additional postings are generated. These additional postings can include cash discounts, payment surcharges, exchange rate differences, interest on arrears. For these postings, it was already possible for you to enter account assignments in Customizing.

If items that were involved in the clearing already have account assignment to a profit center, then that profit center also takes precedence in the future over a profit center that the system determines from Customizing. However, the derivation from Customizing remains in effect for those cases where the open items themselves do not have account assignment to a profit center.

The system normally derives the account assignments from table TFKCOD using an account assignment key. Up to now, you could enter cost centers, orders, profit centers, and project numbers in that table, dependent on the company code, business area, and segment.

You can enter those elements as also being dependent on a profit center that were already determined elsewhere. This ensures, for example, that when a cost center is determined, it agrees with the profit center that was already adopted from an open item.

Profit Centers in Postings to Tax Accounts

In this context, tax accounts are considered to be accounts to which tax on sales/purchases or withholding tax is posted. The functions described here are not available for other types of taxes (such as, insurance taxes).

Profit Centers with Sales/Purchases Tax

The system supports distributing tax items based on various account assignments (business area, segment, profit center, account assignments from Funds Management). For more information, see the release note **Enhanced Account Assignment of Tax Items**.

Profit Centers with Withholding Tax

When you post withholding tax, the system adopts the profit center from the related business partner item. The data you are required to report is recorded in table DFKKQSR. The profit center is also contained in the table, and sample report RFKKQST00 for evaluating the withholding tax data also displays the profit center.

Effects on Customizing

Settings for Enhanced Use of Profit Center

The relevant Customizing settings for the enhanced use of profit centers in Contract Accounts Receivable and Payable are:

- **Activation of profit center for business partner items**
  This activation is made per company code. In Customizing for Contract Accounts Receivable and Payable, choose ***Organizational Units ->*** **Set Up Company Codes for Contract Accounts Receivable and Payable**

- **Field status groups check**
  The field status group is in the G/L account master records of the receivables accounts, payables accounts, down payment accounts, bank accounts, cash accounts, and tax accounts (on the Entry/Bank/Interest tab page). You can double-click to display the group attributes. The ***Profit Center*** field should be available as an optional entry.
  If you need to change the attribute of a field status group, choose ***Financial Accounting (New) -> Financial Accounting Global Settings (New) -> Ledgers -> Fields ->*** **Define Field Status Variants**. On the next screen, select the field status variants relevant for the company code in question and then navigate to maintenance of the field status groups.

- **Define default values for the cash desk**
  You define default values for the profit center and the business area in Customizing for Contract Accounts Receivable and Payable under ***Business Transactions -> Payments -> Processing Incoming/Outgoing Payments -> Cash Desk/Cash Journal ->*** **Define Default Account Assignments**

- **Adjust the account assignment keys for CO objects**
  If you have defined account assignment keys for which you derive CO objects dependent on company code, business area, or segment, check whether you now need to make the settings for each profit center. For example, this is necessary if you derive a cost center and a profit center is defined in the cost center. In this case, the profit center in the derived cost center should agree with

the profit center previously transferred from a business partner item.
To make the settings in Customizing for Contract Accounts Receivable and Payable, choose ***Basic Functions -> Postings and Documents -> Document -> Define Account Assignments for Automatic Postings ->*** **Define CO Account Assignment Keys**.

Distribution of Revenues

Use

Mass Activity for Distribution Posting

As of SAP ECC 6.0, Enhancement Package 4, you can use the ***Post Distribution Documents*** transaction in the SAP menu under ***Periodic Processing -> For Contract Accounts -> Revenue Distribution*** as a mass activity. If you are using Contract Accounts Receivable and Payable with Enhancement Package 4, as standard the system automatically calls up transaction FP60PM when you run the ***Post Distribution Documents*** transaction.

Report RFKKRD00 ***Revenue Distribution: Create and Post Documents***, which was used up to now, continues to be available in transaction FP60P_OLD. Note however, that you can no longer use report RFKKRD00 for enhanced revenue distribution. The only report that now supports this function is the mass activity ***Post Distribution Documents***.

Enhanced Revenue Distribution

You can use the **enhanced revenue distribution** in parallel with **classic revenue distribution**.

In the standard system, with enhanced revenue distribution, you distribute assigned payments (receivables items cleared by payment). However, you can also distribute unassigned payments (payments on account with a subtransaction designated as payment-relevant) and expected revenues (still open line items but not including assigned payments). For expected revenues and unassigned payments, the system runs an estimated distribution. The user estimates the distribution ratios of the final recipients in advance. In contrast, the system always distributes assigned payments as final, since the user can determine the distribution ratios uniquely in advance.

The system supports distribution of each receivables item to several final recipients.

Using report **RFKKRDI_AGGR**, you can create aggregated distribution information (see SAP menu: ***Periodic Processing -> For Contract Accounts -> Revenue Distribution -> Create Aggregated Distribution Information***). For more information, see the report documentation.

You can also extract distribution information for ***Business Intelligence*** (BI) (see SAP menu: ***Periodic Processing -> Extraction for Business Intelligence -> Extract Revenue Distribution Items***). Report **RFKKRDI_BW** executes the delta extraction to BI.

Technical Basics

Enhanced revenue distribution is based on a different technical concept than classic revenue distribution. For example, in enhanced revenue distribution, the final recipients and their respective distribution portions for receivables items must already be created and exist in the table of distribution information (DFKKRDI_RATE) before you can start the revenue distribution process in Contract Accounts Receivable and Payable. The distribution information is linked to the line items (DFKKOP) using the **distribution key** - a GUID that is contained in the table of distribution information and in the line items. For event 5440, you define which line items are distributed using enhanced revenue distribution.

The following applies to the information for the final recipient and the corresponding distribution ratios:

For assigned payments and expected revenues, you have to define the final recipient and distribution ratios before the revenue distribution process and write them to the table of distribution information (DFKKRDI_RATE) together with the distribution keys created. The distribution key must be inherited by the receivables items (field DISKEY in table DFKKOP). You have to create an implementation for this in a customer project. To add the distribution information, you can use function module FKK_RDI_RATE_INSERT.

Note for the industry component Public Sector Contract Accounts Receivable and Payable

To add the distribution information, you can use the ***Business Rules Framework*** (BRF). SAP provides the BRF object TRM_TEMPLATE_OBJECT with the implementing class **0TRMRD001**. With an appropriate implementation of this class, you can determine the distribution information required.

For unassigned payments, the final recipient and distribution ratios are defined at event 5420, which is called by the revenue distribution mass activity (FP60M). The corresponding distribution key is **not** inherited by the payables items (in table DFKKOP), it is only noted in the distribution table (DFKKRDI).

Note that an original line item can only be distributed in one way - either with classic revenue distribution or enhanced revenue distribution. If, for one original line item, data is defined for both classic and enhanced revenue distribution, the classic revenue distribution overrides the enhanced revenue distribution. Therefore, make sure that in the classic revenue distribution, you do not automatically derive the final recipient for the line items that you want to distribute with enhanced revenue distribution.

Enhanced revenue distribution is based on **distribution** groups and **distribution periods**. A current distribution period must be assigned to each distribution group.

Prerequisites

If you want to use enhanced revenue distribution, the following **prerequisites** must be fulfilled.

Events

Using event 5440 you can define whether an item is distributed. The system calls the event when you post a document.

Using event 5420, you can estimate the distribution ratios for unassigned payments. The event is called in the mass activity ***Revenue Distribution***.

Evaluation of Revenue Distribution

You can analyze revenue distributions using the following evaluation reports with their different output options:

- Report **RFKKRDI_REPORT** (transaction FP60R_NEW) for the analysis of revenue distribution based on original documents (see SAP menu: ***Account -> Further Information -> Evaluation of Revenue Distribution (Original Document)***). Note that if you use Contract Accounts Receivable and Payable with Enhancement Package 4, transaction FP60R calls up transaction FP60R_NEW as standard automatically. Report RFKKRD01 ***List of Distributed Revenues*** is still available using transaction FP60R_OLD.
- Report **RFKKRDI_REPORT_DIS** for the analysis of revenue distribution based on distribution documents (transaction FP60R1) (see SAP menu: ***Account -> Further Information -> Evaluation of Revenue Distribution (Distribution Document)***).

Simulated Assigned Payments for Classic Revenue Distribution

Using the ***Revenue Distribution*** (FP60M) transaction, you can use the **Simulate Assigned Payments** option. This means that open receivables items are simulated as assigned payments (cleared by payment) and corresponding simulation entries are written to table DFKKRDI (see SAP menu: ***Periodic Processing -> For Contract Accounts -> Revenue Distribution -> Distribute Revenues***). You can then use the analysis report **RFKKRDI_REPORT** to select and evaluate simulated assigned payments.

Activation of Distribution Documents for Invoicing

The system now supports an activation of distribution documents for ***Invoicing in Contract Accounts Receivable and Payable***. This means that distribution documents can be cleared with other documents during invoicing and corresponding invoices can be created for the recipient.

Effects on Customizing

You make the system settings in Customizing for Contract Accounts Receivable and Payable under ***Business Transactions -> Distribution of Revenues -> Enhanced Revenue Distribution*** in the following activities:

- **Make Settings for Enhanced Revenue Distribution**
- **Define Distribution Groups**
- **Define Transaction Determination for Distribution Groups**
- **Define Distribution Periods**
- **Define Distribution Periods for Distribution Groups**
- **Define Specifications for Invoicing**

Activate enhanced revenue distribution in Customizing for Contract Accounts Receivable and Payable under ***Program Enhancements -> Prepared Enhancements*** **-> Enhanced Revenue Distribution**.

Standing Requests

Use

As of SAP ECC 6.00, Enhancement Package 4 earmarked fund documents are statistically consumed as soon as you create a request. When the FI-CA document is created from the request, the system replaces the statistic consumption by the consumption through the FI-CA document. In case a request is deleted or rejected, the system automatically releases the earmarked funds document that was created for this request.

Note

You can create earmarked fund documents either via a request or via a separate transaction. The automatic release only happens for earmarked funds documents that were created via requests.

When you change the amount or account assignment for a request line item, the system automatically adjusts the earmarked funds document that was created for this request. Technically, the system releases the old earmarked funds document and creates a new one based on the new amount and account assignment. This, too, is only done for earmarked funds documents that were created via requests.

With the improved request features you now can:

- edit requests that are on the approval worklist
- close earmarked fund document directly from within the request

Furthermore, you can use a new year end report that allows creation of earmarked funds documents for standing requests. (see SAP menu: ***Periodic Processing -> Closing Preparation -> Create Earmarked Funds Documents for Standing Requests***)

Extended Account Assignment for Tax Items

Use

As of SAP ERP 6.0 Enhancement Package 4 (Release 6.04), an enhanced account assignment of postings to accounts for tax on sales/purchases is available. This also includes the option of splitting the tax amounts and tax base amounts to different account assignments.

The Account Assignment Principle and the Splitting of Tax Items

The enhanced account assignment option applies to the following fields:

- Business area
- Segment
- Profit center
- Commitment item
- Funds center
- Fund
- Functional area
- Funded program
- Grant

If you want to use enhanced account assignment for tax items, you have to activate this option in Customizing for each company code. If the new function is active, the system determines for each tax item all other related G/L items that have the same tax code. These items can contain various combinations of the account assignments mentioned above. The system determines the total amount for each combination.

The tax item is then mathematically split into subitems and the appropriate account assignment combination is assigned to each subitem.

The subitems are relevant for updating totals records for the reconciliation keys and therefore also for updating the general ledger.

Example

You post an invoice with two revenue items and a tax item:

Account	Profit Center	Tax Code	Amount	Base Amount
Revenue	P001	A1	400	
Revenue	P002	A1	200	
Tax		A1	114	600

For the tax item, the system generates two distribution items, as follows:

Account	Profit Center	Tax Code	Amount	Base Amount
Tax	P001	A1	76	400
Tax	P002	A1	38	200

When updating the general ledger, these two distribution items appear in the place of the one tax item.

Restrictions

For cross-company code postings, it is possible that the tax-relevant items (expense, revenue) and the tax items are posted in different company codes. In this case, account assignments are only inherited if the company codes involved are not assigned to different controlling areas or to different FM areas.

Special features and technical details

If the account assignment is not unique, then the system saves the account assignment information for a tax item in the new table DFKKOPAA.

If the account assignment is unique, then the system transfers the account assignment information for a tax item directly to table DFKKOPK.

There is a special feature for tax-relevant down payments. The account for tax on sales/purchases and a related clearing account are updated, even though there are no separate tax items in the document. The tax information (tax code, tax amount, tax account, clearing account) is only included as additional attributes in the down payment item posted to the contract account. In that case, the system adopts the account assignment of the down payment item directly for updating the tax.

Displaying account assignment data for a tax item

In the document display, the tax items are initially displayed as usual. In the case of a unique account assignment, the tax item is displayed in the same way as other general ledger items.

If there are differing account assignments, you can display the split using the new ***Account Assignment*** pushbutton.

Effects on Customizing

For enhanced account assignment of tax items in Contract Accounts Receivable and Payable, make the following settings in Customizing:

- **Activating the Functionality**
  This activation is made per company code. In Customizing for Contract Accounts Receivable and Payable, choose ***Organizational Units ->*** **Set Up Company Codes for Contract Accounts Receivable and Payable**

- **Field Status Groups Check**
  The field status group is in the G/L account master records of the tax accounts (on the tab page ***Entry/Bank/Interest***). You can double-click here to display the group attributes. Set the account assignment fields mentioned at the start to optional (at least those account assignments that are used in your installation). If you need to change the setting of a field status group, in Customizing choose ***Financial Accounting (New) -> Financial Accounting Global Settings (New) -> Ledgers -> Fields ->*** **Define Field Status Variants**. On the next screen, select the field status variants relevant for the company code and then navigate to maintenance of the field status groups.

New Web Dynpro Applications

Use

As of SAP ECC 6.0, Enhancement Package 4, you can use Web Dynpro applications for creating customer contacts and manual correspondence and for Document Management Service in Contract Accounts Receivable and Payable.

Clerks are guided through the following new Web Dynpro applications using a user-friendly default/confirmation principle:

- Business Partner Contact (***FKK_WDY_BP_CONTACT***)
  You can use this Web Dynpro application to log customer contacts. This includes contact initiated by the customer, such as telephone calls, as well as contact initiated by you, for example, letters or dunning notices.
  You can use the note function to enter notes for a customer contact, such as the reason for a budget billing amount adjustment.

- Correspondence Creation (***FKK_WDY_CORR_MANUAL***)
  This Web Dynpro application provides a framework that you can use to:

  - Create correspondence manually and send it to recipients
  - Request inbound correspondence

  You enter the tasks necessary for creating and requesting correspondence as part of a guided procedure. You can have the correspondence checked and approved based on workflow procedures by configuring the appropriate ISR scenario. In the correspondence history. You print using the Print Workbench. SAP provides correspondence type 0400 for creating and for printing correspondence.
  You can load both outbound and inbound correspondence to the Document Management Service.

- Document Management Service (***FKK_WDY_DMS***)

  You can add documents to the Document Management Service:

  - From local PCs
  - From correspondence containers
  - From storage systems, such as the optical archive

  The ***Document Management Service*** (DMS) archives documents and links the archived documents with application objects of Contract Accounts Receivable and Payable (FI-CA).
  You can link application objects with documents. From an application object, where required you can display and process these documents.

- Interaction History (***FKK_WDY_INT_HIST***)
  The interaction history provides a complete overview of the correspondence history, customer interactions and notes from various sources. You can extend this overview as needed. For the following objects, SAP provides Customizing for displaying information in the interaction history:

  - Outbound correspondence
  - Customer contact
  - Notes on execution work items

- Notes on master data groups

In ***Financial Customer Care*** (FCC), you can manually generate correspondence in the document view. You access this view from the navigation bar or from processing of collection work items.

Effects on Customizing

You can create **correspondence templates** for creating correspondence manually in Customizing for Contract Accounts Receivable and Payable under ***Basic Functions -> Correspondence***.

You make settings for the contact history in Customizing for Contract Accounts Receivable and Payable under ***Basic Functions -> Interaction History***.

Write Off

Use

As of SAP ECC 6.0, Enhancement Package 4, with the mass write-off, you can write off or prevent the write off of individual items by age and amount grid. When doing so, you can also influence whether this is to be visible in the application log.

The system determines the write-off variant in event 2957, which you can define in accordance with your requirements.

For each age and amount structure, the write-off variant defines whether the current receivable can be written off. You can display the procedure in the application log for information purposes (optional).

Example:

Document 4711 was posted 200 days ago with the amount EUR 1000.

There is a write-off variant VARI with the following settings:

Days after Due Date		Sequential Number		Amount
	Automatic W/O	. Log		
50	1	500	X	
100	1	500	X	
100	2	1000	X	X
100	3	5000	X	

From these settings, the system derives the following procedure:

1. The document is older than 50 and 100 days. The system therefore checks all four entries, but it first checks the rule for which the number of days after the due date is the highest number of days, and then the rule for which it is the smallest.
2. The system checks line 2 first. The amount of 1000 is more than 500 and, therefore, does not qualify.
3. The system then checks line 3. The amount of 1000 is within the range up to 1000 and therefore qualifies for the write-off.
4. The system writes off the item automatically and makes a note in the log.

Effects on Customizing

In the Implementation Guide for Contract Accounts Receivable and Payable under ***Business Transactions -> Write-Offs***:

- ***Maintain Write-Off Variants***, you define the write-off variants that the write-off run (transaction ***FP04M***) uses to check whether line items may be written off. **Note**: Always create at least one age and amount grid for a write-off variant.
- ***Maintain Age and Amount Grid for Write-Off Variants***, define an age and amount grid for the write-off variants defined in the previous activity. The write-off run uses these to check whether the line items can be written off.

For each currency, from a specific age, and up to a maximum amount, you can define whether

- The write-off is permitted
- There should be a note in the log

Prerequisite for the settings mentioned is:

- You have defined write-off variants.
- You have defined event 2957. This event uses different criteria of the item, such as business partner, contract account, company code, account determination ID, business area, and segment to determine the write-off variants defined.
- In the write-off run (transaction ***FP04M***), on the tab page ***Posting Parameters***, you have set the indicator ***Write-Off by Age and Amount***. By setting this indicator you activate this function.

Enterprise Services

Use

As of SAP ERP 6.0, Enhancement Package 4, in Contract Accounts Receivables and Payable, you have access to new Enterprise Services as XI interfaces.

The ***Enterprise Service Repository*** contains the following XI interfaces for software component ***FI-CA*** under ***FI-CA 604 -> http://sap.com/xi/FICA/Global2 -> Service Interfaces***:

- **Dunning:**
  - ContractAccountReceivablesPayablesDunningNoticeERPByBusinessPartnerQueryResponseIn
  - ContractAccountReceivablesPayablesDunningNoticeERPByIDQueryResponse_In
- **Subscription/Clearing Notification:**
  - ContractAccountReceivablesPayablesRegisterERPReferenceSubscriptionRequest_In
  - ContractAccountReceivablesPayablesRegisterERPSubscribedItemBulkNotification_Out
- **ReceivablesPayablesRegister:** ContrAcctRblsPyblsRegERPItemBusTransacDocRefByBaseBusinessTransactionDocumentReferenceQueryResponse_In
  At the moment you can only use this service if you use the ***Insurance industry-specific component***.
- **Account balance : ContractAccountERPSplitItemGroupByElementsQueryResponse_In**
- **PaymentReturn : PaymentReturnERPOccuredBulkNotification_Out**
- **Contract Account:**
  - ***ContractAccountERPSplitItemGroupbyElementsQueryResponse_In***
  - ***Contract Account Down Payment Request***
  - ***ContractAccountDownPaymentRequestERPCreateRequestConfirmation_In***

You also have access to Enterprise Services as part of the External Cash Desk Services (see Release Note for **External Cash Desk Services**) and Submissions for External Collection (see Release Note for **Submissions for Collection**).

Changed Interfaces

In the ***Enterprise Service Repository*** for software component ***FI-CA*** under ***FI-CA 604 -> http://sap.com/xi/FICA/Global2 -> Service Interfaces the following XI interfaces have been changed***:

ContractAccount

The XI interfaces ***ContractAccountERPReceivablesPayablesRegisterItemByIDQueryResponse_In*** and ***ContractAccountERPSplitItemGroupByBusinessPartnerIDQueryResponse_In*** have been changed as follows: Addition of a selection option by posting date and the possibility to restrict the results set.

Doubtful Entries and Individual Value Adjustment

Use

Predefined Value Adjustment Amount

Until now, you could use the transaction ***Adjust Receivables*** (in the SAP menu under ***Account***) only to specify a percentage rate for the system to use in individually adjusting a receivable. As of SAP ECC 6.0, Enhancement Package 4, you can also predefine an explicit **value adjustment amount** instead of the percentage rate.

In the ***Adjust Receivables According to Age*** transaction in the SAP menu under ***Closing Preparation -> Receivable/Revenue Adjustment***, you can also predefine a value adjustment amount in event 2950. If there is both a percentage rate and a predefined value adjustment amount for an item after this event, for further processing, the system takes the value that leads to a higher individual value adjustment amount.

Note

The predefined value adjustment amount is currently not supported for calculation types where value adjustments are reset to separate accounts.

Adjust Promises to Pay

In the ***Adjust Receivables According to Age transaction*** (SAP menu: ***Closing Preparation -> Receivable/Revenue Adjustment***), when adjusting items that are in promises to pay, you can use the due date of the payment dates as the comparison date for determining the age of the receivable (but not the due date in the original items). To do this define event **2950.**

Dynamic Value Adjustment Variant

Using the new event **2957**, in the ***Adjust Receivables According to Age*** transaction (***FPRW***) (SAP menu: ***Periodic Processing -> Closing Preparation -> Receivable/Revenue Adjustment***), you can determine the value adjustment variant dynamically. In this event you define a value adjustment variant whose age structure is used to perform the value adjustment of the current receivable.

Valuation Areas

You can now designate an item as doubtful or individually adjust its value differently in different ledger groups. To do this, you use **valuation areas** that each map to a ledger group. In the transactions ***Adjust Receivables*** (***FPZW***), ***Adjust Receivables According to Age*** (***FPRW***), and ***Transfer Adjusted Receivables*** (***FPRV***), you can now perform actions dependent on valuation areas.

Prepare Valuation Areas

Once you have activated and defined valuation areas, you have to prepare the doubtful entry data in the database tables for the valuation areas and company codes. This also applies for company codes for which there are no doubtful receivables or individual value adjustments.

For this preparation, SAP provides sample report **RFKK_ZWFEWB_BWBER_INIT**. Note that you should not deactivate valuation areas for doubtful entries/individual value adjustments once you have successfully prepared at least one company code for valuation areas.

Reconciliation with General Ledger

In all ledger groups affected by the valuation areas used for a given company code, the doubtful entry accounts and individual value adjustment accounts must each have the **same account balance** as the company code during the preparation of the valuation areas.

If you want to use a further valuation area for a company code **after the preparation**, then the doubtful entry and individual value adjustment accounts must have no entries for the company code in the corresponding ledger group.

Once you have prepared valuation areas for doubtful entries/individual value adjustments, input fields with the following meanings appear in the following transactions for valuation areas:

- ***Adjust Receivables*** (FPZW), Adjust Receivables According to Age (FPRW), Display Receivables Adjustments Transferred (FPRA), and ***Open Item Lists (FPO1, FPO4)***
  The ***Valuation Area*** field is optional. If the field remains empty, only company codes are selected for which valuation areas are not (yet) defined. If the field contains a specific valuation area, only company codes are selected that have been adjusted to valuation areas and to which this specific valuation area has been assigned in Customizing.
- ***Transfer Adjusted Receivables (FPRV)***
  The ***Valuation Area*** field appears as selection criterion. There is also a dropdown box where you can choose one of the following: all company codes; only company codes with valuation areas; only company codes without valuation areas.

Example

Before the introduction of valuation areas, an item had been classified as a doubtful entry and had an individual value adjustment of 50%. Now you defined the valuation areas HGB and US GAAP in Customizing and you activated (and prepared) valuation areas for doubtful entry/individual value adjustment. Then you use the ***Adjust Receivables*** transaction (FPZW), to make an individual value adjustment of 100% for valuation area HGB for this item. In the valuation area US GAAP, the valuation adjustment of the item does not change. This means that the item still has an individual value adjustment of 50% there.

A different item previously had the same adjustment for both valuation areas HGB and US GAAP. Now you enter valuation area HGB in the ***Transfer Adjusted Receivables*** transaction (FPRV) and execute a transfer run. In this case, the transfers of the general ledger items only refer to the ledger group assigned to valuation area HGB. The system makes no transfers for the valuation area US GAAP or its ledger group.

Effects on Customizing

Adjust Promises to Pay

Under ***Business Transactions -> Doubtful Entries and Individual Value Adjustments***, in the **Maintain Value Adjustment Variants for Automatic Adjustments** activity, you can specify whether, for the adjustment of items in promises to pay, the due date in the payment dates is to be used as the comparison date for determining the age of the receivable instead of the due date in the original items. You define this for each value adjustment variant.

Valuation Areas

Under ***Business Transactions -> Doubtful Entries and Individual Value Adjustments*** -> ***Valuation Areas***, first define your valuation areas. Assign a ledger group to each valuation area.

Assign these valuation areas to the desired company codes by choosing ***Business Transactions*** -> ***Doubtful Entries and Individual Value Adjustments*** -> ***Valuation Areas*** -> **Define Valuation Areas for Receivables Adjustments**.

In the **Activate Valuation Areas for Receivables Adjustments** activity, you activate the use of valuation areas for doubtful entries and individual value adjustments. This enables you to adjust an item differently in different ledger groups.

Note

All transactions for doubtful entry/individual value adjustment are **locked** after the activation and remain locked until all data has been prepared for the valuation areas.

In the **Prepare Valuation Areas for Receivables Adjustments** activity, you adjust the desired company codes to the assigned valuation areas.

Enhancements to Account Determination

Use

As of SAP ERP 6.0, Enhancement Package 4 (Release 6.04), you can select by specific entries in the list of displayed entries in Customizing transactions for account determination by choosing ***Selection -> By Contents***.

In addition, you can now execute a transport for subareas of the posting area by choosing ***Account Determination -> Transport -> Partial Transport***. There you can select, in dialog mode, which data should be transported from the existing key combinations (for example, only all entries for a given company code).

For an example of putting this function into practice, see Customizing for Contract Accounts Receivable and Payable under ***Basic Functions -> Postings and Documents -> Define Account Assignments for Automatic Postings -> Automatic G/L Account Determination -> Define Accounts for Sales/Purchase Tax***.

Account Balance Display

Use

Enhanced Selection

As of SAP ECC 6.0, Enhancement Package 4, you can enter value ranges for the selection of business partners, contract accounts, and company codes. You can select relationships between master data, such as business partner relationships, in dialog mode. For business partner relationships, you can limit the number of relationship types that are offered by making settings in Customizing.

Saving the Selection

You can save selection parameters for master data and company code with a name. This can be user-independent or user-specific.

New Balances

In Customizing, you can configure balances categories that contain all items with certain main and subtransactions.

Effects on Customizing

You specify the business partner relationship types, which you do not want offered for selection, in Customizing for Contract Accounts Receivable and Payable under ***Basic Functions -> Account Balance Display ->*** **Exclude Business Partner Relationship Types**.

You can enter main and subtransactions that you want to assign to a balances category that you define. In Customizing choose ***Basic Functions -> Account Balance Display -> Balances Variants ->*** **Define Balances Categories**.

Archiving

Use

As of SAP ECC 6.0, Enhancement Package 4, the enhancements listed below related to archiving are available in Contract Accounts Receivable and Payable.

New Archiving Object: Recording of Installment Plan Data for Key Date

Using the new archiving object ***FI_MKKIPL***, you can archive installment plan data that you stored for a key date. The prerequisites for archiving are described in the documentation of report **RFKKIPLAR01** (see SAP Easy Access screen: ***Periodic Processing -> Archive Data)***.

New Archiving Object: Event-Based Deferred Revenues

With the new archiving object ***FI_MKKDRE*** you can archive data for event-based deferred revenues. The prerequisites for archiving are described in the documentation of report **RFKKDREAR01** (see SAP Easy Access screen: ***Periodic Processing -> Archive Data***).

New Archiving Object: Submission to External Collection Agencies

Using the archiving object ***FI_MKKCOLD***, you can archive data that you stored in conjunction with submissions of receivables to external collection agencies. The data meant here is the data that arises due to exchanges with an external collection agency or due to legal dunning procedures. The prerequisites for archiving are described in the documentation of report **RFKKCOLDAR01** (see SAP Easy Access screen: ***Periodic Processing -> Archive Data***).

New Archiving Object: Inbound Data from External Cash Desks (Inbound Services)

You can archive inbound data from external cash desks with the new archiving object ***FI_MKKEXCJ. The prerequisites for archiving are described in the documentation of report*** **RFKKEXCJAR01** ***(see SAP Easy Access screen: Periodic Processing -> Archive Data).***

*Enhancement to Document Archiving (Archiving Object **FI_MKKDOC**)*

When archiving documents, the system now automatically archives table ***DFKKOPAA*** (distribution items with account assignment).

*Enhancement to Check Archiving (Archiving Object **FI_MKKCREG**)*

When archiving checks, the system now also automatically archives escheatment data for check management in database tables

DFKKCRESCH and ***DFKKCRESCHA***.

*Enhancement to Archiving of Revenue Distribution (Archiving Object **FI_MKKREVD**)*

When archiving data for revenue distribution, the system now also automatically archives database tables ***DFKKRDI_RATE*** and ***DFKKRDI_AGGRF***.

*Enhancement to Archiving of Convergent Invoicing (Archiving Object **FI_MKKTHI**)*

When archiving data for convergent invoicing, the system now also automatically archives database table ***DFKKTHI_HIST2***. For table ***DFKKTHI_HIST2***, also create a database index during archiving, as described in the documentation for **RFKKTHPAR01**.

*Enhancement to Archiving of Collection Items (Archiving Object **FI_MKKCOLL**)*

When archiving collection items, the system now also automatically archives database table ***DFKKCOLLEXTH***.

Effects on Customizing

You enter the archiving lives and activate the respective archive information structure for the following archiving objects in Customizing for Contract Accounts Receivable and Payable by choosing the paths below:

- Storing installment plan data for a key date (***FI_MKKIPL***)
  Choose ***Closing Operations -> Archiving***
- Event-based deferred revenues (***FI_MKKDRE***)
  Choose ***Business Transactions -> Deferred Revenue Postings -> Archiving***
- Submission to external collection agencies (***FI_MKKCOLD***)
  Choose ***Business Transactions -> Submit to Collection Agency -> Archiving***
- Inbound data from external cash desks (Inbound Services) (***FI_MKKEXCJ***)
  Choose ***Business Transactions -> Payments -> Processing of Incoming/Outgoing Payments -> External Cash Desk Services -> Archiving***

Enhancements to Billing and Invoicing

Use

SAP ECC 6.0, Enhancement Package 4 provides you with additional functions for billing and invoicing in Contract Accounts Receivable and Payable. These functions allow you to realize special billing and invoicing procedures. Examples of special billing procedures are:

- Topping up a customer account with an amount that will be cleared against later receivables (from consumption)
- Periodic down payment requests that are cleared against the receivables from later billing

Features

- **EDRs for Payment Amounts, Receivables Amounts, and Credit Memo Amounts**
  You can use the EDR type AMOUNT for any amounts from payments, receivables or credit memos that you want to process during billing in Contract Accounts Receivable and Payable. In the case of amounts from payments, you can also specify information about the payment method in EDR with the amount. This means that you can for example process the amount from a credit card payment using an EDR of the type AMOUNT. Billing and invoicing this amount produces a receivable that can be cleared using the credit card specified with the corresponding credit card company.
  This means that you can implement a top-up scenario in which your customer can top-up their account with an amount by specifying their credit card details.
- **Billing Account Facts**
  You can use the operand types AMOUNT, AMOUNTT and AMOUNTP during billing in Contract Accounts Receivable and Payable to define amounts for billing a billing account independently of EDRs.
  This means that you can define an amount for the billing account that is to be observed periodically during billing (AMOUNTP). You can realize a basic charge scenario in which you bill the customer a fixed amount in each bill.
- **Billing Procedure**
  You can perform billing in Contract Accounts Receivable and Payable in conjunction with a billing procedure. The billing procedure is produced from the billing cycle assigned to the billing account and is part of the main billing procedure.
  You can define different frequencies for billing for each billing procedure in a main billing procedure. This means that for a main billing procedure with annual billing, you can for example define an additional billing procedure with monthly billing. The system allows you to use monthly billing to generate down payment requests for a billing account and create annual billing of the actual receivables for the same billing account.
- **Offsetting in Invoicing**
  You can use the new invoicing function OFFSET_REQ to flag amounts from down payments for a contract account for subsequent offsetting during invoicing. You can use the invoicing function OFFSET to offset amounts from receivables for a contract account during invoicing against amounts you have flagged.
  Both amounts that you flag for offsetting and those that you instruct the system to offset can reference specific items in the billing documents to be invoiced. In a billing document to be invoiced you can process both standard receivable items and items that are to be flagged or that are to be offset.
  You can use various offsetting reference keys for a contract account to control this offsetting in great detail. You can for example flag the amounts for a down

payment request generated during billing as a billing account for offsetting. You can also offset the actual subsequent receivables for the billing account.
If you are using several billing accounts for a contract account, the system performs offsetting for each billing account.

- Billing and Invoicing for Event-Based Deferred Revenues
  You can use the new invoicing function DEF_REV_BY_E to perform event-based posting for deferred revenues. You can post invoiced services that are only to affect the revenue when an event occurs to a separate revenue account. These services are posted to the actual revenue account once the revenue-relevant event occurs.
  You can also trigger the event that triggers this posting by billing a corresponding EDR.

- **Billing and Invoicing for Amounts With Different Original Currencies**
  You can process EDRs with different amount currencies in a billing document and convert and post these to an invoicing currency during invoicing.

- **Billing and Invoicing of Gross Amounts**
  You can receive amounts to be billed as gross amounts in EDRs. When the system invoices the gross amounts, it calculates the tax amount they contain and posts this to a corresponding tax account as tax.

- **Extraction of EDRs**
  This business function provides you with an extraction process that you can use to extract EDRs to SAP Netweaver BI.

- **Contract Account-Specific Invoicing**
  You can use contract account-specific invoicing to perform periodic processing of contract accounts by invoicing (invoicing process) independently of source documents (such as billing documents). You can for example convert periodic interest calculation for open items in a contract account.

See also

For more information about changes to the user interface, see the following release note: **EDR Transfer and Demand-Driven Billing Orders**

EDR Transfer and Demand-Driven Billing Orders (New)

Use

As of SAP ECC 6.0, Enhancement Package 4, you can create **demand driven billing orders** during the transfer of EDRs.

Effects on Existing Data

There are no changes for existing EDRs.

Effects on Data Transfer

For the EDR categories provided by SAP, the BAPIs for transfer have been enhanced so that they can generate demand-driven billing orders. If you have defined customer-specific EDR categories, you also have to adjust the corresponding function module. To do this, you can use the samples provided by SAP - for example, BAPI BAPI_EDR_TCOLL_CREATEMULTIPLE and the class used there CL_FKKBI_EDR_TC_BAPI. In this class, the following methods have been enhanced for demand-driven billing:

- New instance attribute T_BILLTASK of category FKKBIBILLTASK_TAB.
- New component T_DFKKBIBILLTASK of category DFKKBIBILLTASK_TAB in local category TY_UPDATE_DATA.
- In method MAP_EDRS, when method GET_BILLACCOUNT_LOADTIME is called from class CL_FKKBI_EDR_HELP_LOAD, the import parameter IM_EDRTYPE is filled. Any generated billing orders (export parameter EX_BILLTASK_TAB) are copied to instance attribute T_BILLTASK.
- In method UPDATE_PREPARE, duplicates are avoided by calling method CL_FKKBI_BILLTASK=>REDUCE_BY_EXISTING and exported using parameter EX_UPDATE_DATA. The key of the new billing orders are exported using the new parameter EX_BILLTASKKEY_TAB.
- The method SAVE calls the function module FKK_BI_BILLTASK_CREATE to update billing orders. The method exports the key of the new billing orders using the new export parameter EX_BILLTASKKEY_TAB.
- The function module BAPI_EDR_TCOLL_CREATEMULTIPLE receives the key of the billing orders from method SAVE and exports it.

Effects on Customizing

You activate the generation of demand-driven billing order during the transfer of EDRs in Customizing for Contract Accounts Receivable and Payable under Integration –> Billing in Contract Accounts Receivable and Payable –> Billing –> Settings for Demand-Driven Billing –> Define Demand-Driven Billing for EDRs.

If you do not use this table, demand-driven billing orders are not generated during the transfer of EDRs. You do not have to change the functions for transferring customer-specific EDR categories.

If you do edit this table, demand-driven billing orders can be generated during the transfer of EDRs. In this case, you have to change all functions for transferring customer-specific EDR categories.

Extract Payments

Use

As of Release 6.04, you can extract all payments data to Business Intelligence (BI). You can run the extraction as a full upload, as a delta initialization with or without data, or as a delta update.

Extract Structure

The extract structure FKKPAYBW_DELTA contains all fields that could be relevant for evaluation in BI. The DataSource delivered with BI Content extracts all relevant fields.

Full upload/Delta init with or without data

The extractor FKK_BW_PAY supports selection of entered data in full upload or delta-init modes, which transfer payments data from the ERP system to the BW system.

Delta update

Transactions that create or change payments data (that is, FPY1, FP05, FP25, FP35, FP45, FP08, FPCD, external payment and external reverse services and so on) will set the trigger in trigger-table DFKKPAYBW. Run mass activity (transaction FPBW_EXTRACT) to extract data to the delta queue.

You must execute Delta Initialization once for the delta update function to work. The delta procedure After Image via Delta Queue (AIM) is used.

Effects on Customizing

Before using Extraction of Payments, you first need to activate extraction in Customizing for *Financial Accounting (New)* under *Contracts Accounts Receivable and Payable* -> *Integration* -> *Business Intelligence* -> *Make Central Settings.*

Link to **Customizing**.

Extract Returns

Use

As of Release 6.04, you can extract all returns data to Business Intelligence (BI). You can run the extraction as a full upload, as a delta initialization with or without data, and as a delta update.

Extraction structure

The extraction structure FKKRETBW_DELTA contains all fields that could be relevant for evaluation in BI. The DataSource delivered with BI content extracts only the most important of these fields. If you require additional fields for your evaluation, you must adjust the DataSource accordingly and then replicate it in your BI system.

Full upload and Delta initialization with or without data

The extractor FKK_BW_RET supports the selection of entered data in full upload and delta-init modes, which transfer returns data from the ERP system to the BW system.

Delta update

Transactions that create or change returns data (FP09 and FPCRL) set the trigger in the trigger-table DFKKRETBW. Run report RFKKBI_RET (transaction FPRETBW) to extract data to the delta queue. You must execute Delta initialization for the delta update function to work. The delta procedure After Image via Delta Queue (AIM) is used.

Note:

During extraction, if more than one business partner is assigned to a return, the return charge and the tax amount on the return charge are assigned to the business partner with the highest partial return amount.

If a business partner has more than one contract account for a single return, the return amounts for this business partner are aggregated.

Effects on Customizing

You must activate the returns extraction before using it. Do this in Customizing for *Financial Accounting (New)* under *Contract Accounts Receivable and Payable -> Integration -> Business Intelligence -> Make Central Settings.*

Link to **Customizing**.

Extract Revenue Distributions

Use

As of Release 6.04, you can now extract all revenue distribution and aggregated distribution groups, both real and statistical, for evaluation in Business Intelligence (BI). You can run the extraction as a full upload, as a delta initialization with or without data, and as a delta update.

Extraction structure

The extraction structure FKKRDIBW_DELTA contains all fields that could be relevant for evaluation in BI. DataSources delivered with BI content may extract only the most important of these fields. If you need additional fields for your evaluation, you must adjust the DataSource accordingly and then replicate it in your BI system.

Full upload and delta initialization with or without data

The extractor FKK_BW_RD supports selection of a CPU date and distribution group (multi or single value) in full upload and delta initialization modes, which transfer revenue distribution data and aggregated distribution group data from the ERP system to the BW system.

Delta update

Transactions that create or change revenue distribution (FP60M and FP60P) call function modules to update the delta queue. You must execute delta initialization for the delta update function to work. The delta procedure After Image via Delta Queue (AIM) is used.

Effects on Customizing

You must activate the extraction before you can extract data for revenue distribution and aggregated distribution groups. Do this in Customizing for *Financial Accounting (New)* under *Contract Accounts Receivable and Payable* -> *Integration* -> *Business Intelligence* -> *Make Central Settings.*

Link to **Customizing**.

Extract Work Items

Use

As of Release 6.04, you can now extract all work items data to Business Intelligence (BI). You can run the extraction as a full upload, a delta initialization with or without data, and as a delta update.

Extraction structure

The extraction structure FKKWLIBW_DELTA contains all fields that could be relevant for evaluation in BI. The DataSource delivered with BI content only extracts the most important of these fields. If you require additional fields for your evaluation, you must update the DataSource accordingly and then replicate it in your BI system.

Full upload and delta initialization with or without data

The extractor FKK_BW_WLI supports selection of entered data in full upload or delta-init modes, which transfer work items data from the ERP system to the BW system.

Delta update

Transactions that create, change or delete work items (that is, FPVA, FPVB, and FPWLM) set the trigger in trigger-table DFKKWLIBW. Run mass activity (transaction FPBW_EXTRACT) to extract the data to the delta queue. You must execute delta initialization once for the delta update function to work.

The delta procedure *After Image with Deletion Flag Via Delta Queue* (AIMD) is used.

Effects on Customizing

Before using work items data, you must first activate the extraction in Customizing for Financial Accounting (New) under Contract Accounts Receivable and Payable -> Integration -> Business Intelligence -> Make Central Settin*gs.*

Link to **Customizing**.

Cash Desk

Use

Payments by Payment Slip in the Cash Desk

As of SAP ECC 6.0, Enhancement Package 4, in the cash desk you can use a two-level procedure for incoming and outgoing payments.

In the first step, you can identify the items to be paid by the customer or to be paid out by your company and summarize them in a payment slip. In the second step the payment is processed in the cash desk.

Effects on Customizing

You can define codes for the clerks who issue payment slips. In Customizing for Contract Accounts Receivable and Payable, choose ***Business Transactions -> Payments -> Processing Incoming and Outgoing Payments -> Cash Desk/Cash Journal ->*** **Define Codes of Issuer**.

Escheatment for Checks

Use

As of SAP ECC 6.0, Enhancement Package 4, Contract Accounts Receivable and Payable supports the process of check escheatment for checks that were not cashed by the recipient within a specified time period.

Example

In the United States, uncashed checks and money orders must be escheated to the state government after a specified amount of time has expired, when, according to federal law, they then become property of the given state. Insurance companies are required to undertake reasonable measures to find the check recipient and to determine if a check has been lost or needs to be re-issued. The last known address of the lawful check recipient determines which U.S. state laws are applicable.

Escheatment can either be processed automatically, or manually in clarification processing. In the standard system, escheatment is handled automatically. However, you can also select checks for manual processing by defining event 0431 (for instance, based on the amount of the check and/or the address of the recipient).

Check escheatment has the following steps:

- Check creation
- Selection of checks for escheatment
- Escheatment
- Payment

Check creation

At the time the check is created, the system determines the receiver code and the earliest possible start date for the escheatment process, based on the current standard address (region) of the recipient. This information is stored in the check. At event 0430, you can change the receiver code and specify one of the following for the check:

- No escheatment should take place.
- No escheatment should take place if the check recipient lives outside of the country.

Selection of checks for escheatment

On the SAP Easy Access screen, select all checks that are eligible for escheatment by choosing ***Periodic Processing -> Data for Externals -> Tax Authorities -> Check Escheatment -> Start Escheatment Process***. The checks that are eligible are all checks:

- That have open status and were not yet cashed
- That are older than the number of days you specified in Customizing
- That are above the amount you specified in Customizing

The program generates a persistent worklist containing the checks that can be escheated and sets the escheatment date and receiver code for these checks based on the last known address of the payee.

You can also change the receiver code in event 0431.

After that you create the notification letters. On the SAP Easy Access screen, choose ***Periodic Processing -> For Contract Accounts -> Correspondence -> Print*** (correspondence type 0046 - check escheatment letter).

The program generates notification letters that inform payees that they are in possession of an uncashed check, which will be escheated after a certain time period expires. The letter is addressed to the last known address of the business partner. If the check is included in automatic processing, then the system sends the letter automatically. Otherwise, you decide if the letter should be sent.

In event 0431, you can prevent correspondence from being created.

If you are using manual processing, you can decide if correspondence is sent or not.

SAP provides the PDF form ***Check Escheatment Letter (FI_CA_CHECK_ESCHEATMENT_PDF)***.

If the recipient does not respond, then the check is escheated automatically on the escheatment date. If the recipient does respond, then you can transfer the check over to manual processing. Manual processing takes place in the clarification worklist for check escheatment, on the SAP Easy Access screen choose ***Periodic Processing -> Data for Externals -> Tax Authorities -> Check Escheatment -> Clarification***. There you can respond to the following reactions of the recipient:

- Cashing the check in 'n' days
- Postponement of the escheatment date, for example, because the check needs further clarification
- Notification that the check was lost

You can:

- Issue a replacement check
- Search for the current address of the payee in the business partner data
- Create a notification letter
- Set the check for resubmission
- Specify an escheatment date that overwrites the escheatment date set by the program
- Change the receiver code in accordance with the last known address of the payee
- Specify the address to which the notification letter is sent
- Transfer a check to automatic processing
  The check is escheated only in the case of automatic processing (when the escheatment date is reached).
  For example, if a user enters a new address, you can transfer the check to automatic processing. The check escheatment is then automatic when the escheatment date is reached. If a notification letter was not yet created, then the system informs you of that.
  Note
  If a check has been specified for manual processing, then the check cannot be escheated, even if the escheatment date has been reached.

Escheatment

On the SAP Easy Access screen, choose ***Periodic Processing -> Data for Externals -> Tax Authorities -> Check Escheatment -> Execute Escheatment*** to select all checks from automatic processing that were not yet cashed and where the escheatment date has been reached. The program voids these checks and sets the voiding reason and escheatment date. The system derives the specifications for creating the document from posting area 1042. You can post the G/L items for the voided checks either as individual or collective documents.

- **Payment**
  The payment program creates a payment advice for the recipient (the U.S. state).

Display

You can display all escheated checks. On the SAP Easy Access screen, choose ***Periodic Processing -> Data for Externals -> Tax Authorities -> Check Escheatment -> Display Escheatment Data***. You can select the checks by the payment document.

Effects on Customizing

You activate check escheatment per company code in Customizing for Contract Accounts Receivable and Payable under ***Organizational Units ->*** **Set Up Company Codes for Contract Accounts Receivable and Payable**.

You make system settings for check escheatment in Customizing for Contract Accounts Receivable and Payable under ***Basic Functions -> Check Management*** in the following activities:

- **Enter Receiver Codes for Check Escheatment**
- **Enter Specifications for Check Escheatment**

Closing Preparations

Use

As of SAP ECC 6.0, Enhancement Package 4, you can run reports for installment plans in Contract Accounts Receivable and Payable for a certain key date, creating a snapshot of the installment plan due dates on this key date, as well as ensuring the assignment of these due dates to the original items. On the SAP Easy Access screen, choose ***Periodic Processing -> Closing Preparations -> Record Status of Installment Plans for Key Date***.

The open item list takes this report into account if the appropriate setting is made (see SAP Easy Access screen: ***Periodic Processing -> Closing Preparation -> Open Items at Key Date)***.

You can run the report either as a simulation or an update run. In an update run, the report always runs using at least one company code. For simulation runs, you can limit the selection to individual business partners.

The system stores the installment plan due dates starting from the date entered in the selection criteria. The system does not store installments that are older than that.

If you want to make your own assignment of due dates to the original items, you can use event **1882**.

Collections Management

Use

As of SAP ECC 6.0, Enhancement Package 4, the following new functions are available in Collections Management.

Simulation of Responsibilities

In the context of dunning by collection strategy, you can use the dunning program to generate work items. These work items are automatically assigned to the responsible department, and you also have the option of assigning them to a responsible unit (team) or responsible collections specialist.

When configuring the derivation of responsibilities in Customizing, you could previously only test your settings for each of the three levels. Using the new transaction ***Simulate Responsibilities***, you can simulate the derivation of the three levels in one step using data from dunning. This means that the test directly follows the flow of the dunning program (see SAP Easy Access screen: ***Periodic Processing -> For Contract Accounts -> Dunning -> Areas of Responsibility***).

No additional Customizing settings are necessary.

Champion and Challenger Strategies

For dunning by collection strategy, you can define challenger strategies that can replace the collection strategies (champion strategies) defined on the master data.

To do so, you have to create a test series. On the SAP Easy Access screen, choose ***Periodic Processing -> For Contract Accounts -> Dunning -> By Collection Strategy -> Process Test Series for Strategy Replacement***. There you can specify the percentage of master data that you want to be affected by the replacement. You can evaluate the valid test series and thereby specify the master data that is actually affected. On the SAP Easy Access screen, choose ***Periodic Processing -> For Contract Accounts -> Dunning -> By Collection Strategy -> Determine Master Data for Test Series***.

At event 1038 you can exclude certain master data from challenger strategies. You can also choose to implement your own logic for determining the affected master data. In that case, enter your test series without entering percentages. Instead of the of the transaction for determining the master data, use your own report to fill database table ***DFKKCCMD***.

The dunning proposal run considers the entries in table ***DFKKCCMD*** and makes the strategy replacement. The system stores one replacement in the dunning history.

Create Additional Users for Collections Management

You can create (external) employees, who are not assigned to any collections department in organizational management, as additional managers of a collections department or collections unit. To do so, on the SAP Easy Access screen, choose ***Periodic Processing -> For Contract Accounts -> Dunning -> Areas of Responsibility -> Define Additional Department or Group Head***.

You can create (external) employees, who are not assigned to any collections department in organizational management, as additional collection specialists. To do so, on the SAP Easy Access screen, choose ***Periodic Processing -> For Contract Accounts -> Dunning -> Areas of Responsibility -> Define Additional Collection Specialist***.

The transactions for managing worklists in Collections Management and in ***Financial Customer Care*** (FCC) are processed in events 2857 and 2858. In the standard system these events determine the data that was entered in the transactions mentioned.

Standing Worklists

Standing worklists are available as a new type of worklist. With this type of worklist, the system can automatically add new work items, as long as certain criteria, such as the collections unit or work item category are filled. Standing worklists always remain open and do not have an end date.

You can implement customer-specific classification criteria for worklists in event 1037. In addition, you can implement default settings for certain worklist attributes in event 1036.

The transaction for managing worklists in Collections Management (SAP Easy Access screen: ***Periodic Processing -> For Contract Accounts -> Dunning***) was modified for managing standing worklists and a new organizational view was added.

Effects on Customizing

To enable the dunning run to create standing worklists, you have do define the creation of worklists with the attribute ***Automatically As Standing Worklist***. In Customizing for Contract Accounts Receivable and Payable, choose ***Business Transactions -> Dunning -> Worklists and Work Items ->*** **Define Work Item Categories**.

Submit for Collection

Use

Enterprise Services for Submit for Collection

As of SAP ECC 6.0, Enhancement Package 4, SAP provides enterprise services for the business process ***Submit for Collection***. When activated, this service-oriented interface replaces the previous file interface and offers the following additional functions as part of the business process:

- Groupings of collection items for submission, along with external grouping information (external collection cases or court cases), are supported by the application in the form of collection units.
- External status information on the progress of processing is integrated in the submitting company's own status information.
- Payments reported by the collection agency result in the posting of receivables which are credited to the collection agency.

Service Interfaces

The following service interfaces are implemented in SAP Contract Accounts Receivable and Payable:

- **CommissionedOutstandingCollectionsERPBulkRequest_Out**
  The service interface is used for sending information from the submitting company to collection agencies, and it determines the following data:
  - Information for submitting collection items, including business partner data and correspondence (such as original invoices), as well as grouping information (such as, assignment of interest and charges to the main receivable at the time of submission)
  - Clearing information due to (partial) payments or (partial) write-offs of submitted collection items
  - Information for callback of submitted collection items

- **CommissionedOutstandingCollectionsERPBulkConfirmation_In**
  The service interface is used by the submitting company to receive information from collection agencies, and it accepts the following data:
  - Information for assigning collection items to external collection cases/court cases
  - Status information on the progress of processing the collection items
  - Payment information

  Note
  Currently, Contract Accounts Receivable and Payable does **not** support processing of called back or reversed payment information that was reported by collection agencies.

  - Information on uncollectible amounts
  - Information on interest and charges that were successfully collected by the collection agency on behalf of the submitting company

Once the enterprise services are activated for the business process ***Submit for Collection***, the file interface (creation of submission and information files, import of collection agency files) is no longer supported. For more information on dependencies related to activating the services, see the **documentation** for the indicator you use to activate them.

Monitor for Collection Services

There is a ***Collection Services Monitor*** for the outbound and inbound information that is sent or received using services (see SAP Easy Access screen: ***Account -> Submit for Collection -> Collection Services Monitor***). You can use this transaction to monitor the processing status of individual messages.

Preparing Collection Agency Information

There are two transactions for processing the inbound collection agency information:

- Process Collection Agency Information (see SAP Easy Access screen: ***Account -> Submit for Collection -> Process Collection Agency Information***)
  Here you can clear (or partially clear) collection items by payments, or you can write-off (or partially write off) amounts that are uncollectible. The system posts interest and charges statistically and immediately clears them. The system uses the clearing account of the collection agency as the offsetting account for the clearing payments.
- Post Collection Agency Receivables (see SAP Easy Access screen: ***Account -> Submit for Collection -> Post Collection Agency Receivables***)
  You post collection payments reported by the collection agency as receivables on the contract account of the collection agency. The system uses the clearing account of the collection agency as the offsetting account. The collection agency must assign a **grouping key** to each collection payment to enable reconciliation with the SAP system.

Collection History

You can display status information for collection items (both those reported internally and externally) in the collection history. (See SAP Easy Access screen: ***Account -> Other Information -> Collection History***). This transaction provides an overview of how processing of the collection item is progressing.

External Number of Collection Case/Court Case

In the ***Management of Submitted Items*** transaction (see SAP Easy Access screen: ***Account -> Submit for Collection -> Process Collection Items***), the system displays the external number of the collection case or court case (if there is one) that belongs to the collection item. In addition, the external case number is available as a selection criterion.

Events

At event **6260**, you can group collection items before submitting them to the collection agency. For instance, you could assign interest and charge items to the appropriate main receivable item, thereby grouping them together in a submission group.

At event **6261**, you can change or add to outbound information for collection payments. Also you can change the distribution of outbound payment amount information (assignment between collection payments and collection units).

At event **6262**, you can determine the business partner data for the outbound service when submitting to a collection agency. In the standard system, the standard address is determined, along with telephone and fax numbers, e-mail address, and URI address.

At event **6263**, you can determine documents to be used as attachments to collection units when they are submitted. These documents can be transferred in the outbound service. For instance, you can determine the original invoices in the form of PDF documents for the submitted collection items.

At event **6264**, you can display industry-specific and customer-specific fields of a collection case in the ***Management of Submitted Items transaction (see SAP Easy Access screen: Account -> Submit for Collection -> Process Collection Items***).

At event **6265**, you can add certain contents to the message for the outbound service interface.

At event **6267**, you can transfer data from customer-specific fields from the enhanced message of the inbound service to the application.

At event **6268**, you can distribute inbound amount information from external collection cases or court cases (or other groupings) to the individual collection items.

At event **6269**, you can distribute outbound amount information from individual collection items to already existing groupings.

Debt Recovery Score

As of SAP ECC 6.0, Enhancement Package 4, you can use the **debt recovery score** of a business partner to determine the chances of successfully collecting outstanding payments using external collection or a legal dunning proceedings.

Determining the Debt Recovery Score

The debt recovery score is determined using the following Enterprise Services from ***SAP Credit Management*** (FIN-FSCM-CR) and is available to you for checks before submission to collections.

- ***CreditAgencyReportERPDebtRecoveryScoreByDebtorPartyQuery_Out***
- ***CreditAgencyReportERPDebtRecoveryScoreByDebtorPartyQuery_In***
- ***CreditAgencyReportERPDebtRecoveryScoreByDebtorPartyResponse_Out***
- ***CreditAgencyReportERPDebtRecoveryScoreByDebtorPartyResponse_In***

You can request the debt recovery score of a business partner using these options:

- Manually, using the transactions for releasing and processing collection items (on the SAP Easy Access screen, choose ***Account -> Submit for Collection -> Release Items for Collection and Process Collection Items).***
  For a manual request, the system calls the enterprise service ***CreditAgencyReportERPDebtRecoveryScoreByDebtorPartyQuery_Out*** directly.
- Using the release run for collections (on the SAP Easy Access screen, choose ***Periodic Processing -> For Contract Accounts -> Submit for Collection -> Release Run***)
- Using function module **FKK_SAMPLE_0350_GET_DRS** for dunning activities in the dunning run
- In the last two cases, the system does not call the enterprise service ***CreditAgencyReportERPDebtRecoveryScoreByDebtorPartyQuery_Out*** directly. Instead, it determines the value in a two-step procedure as follows:
  a) The system stores the corresponding trigger entries in table ***DFKKMDC_BP*** with the source ***CR*** (Credit Management) and type ***006*** (request debt recovery score) using the release run for collections or the

dunning run.

b) You execute the mass run to prepare for master data changes from external systems (on the SAP Easy Access screen: ***Forward Data to SAP Credit Management -> Prepare Master Data Changes from External System***) with source ***CR*** (Credit Management) and type ***006*** (request debt recovery score).
When the mass run is executed, the system processes the entries of the trigger table and calls the Enterprise Service ***CreditAgencyReportERPDebtRecoveryScoreByDebtorPartyQuery_Out.***

- Using function module **FKK_DEBT_RECOVERY_SCORE_QUERY**
Using this function module, you can request the debt recovery score from other processes, such as final billing.

Events

At event **6250**, you can determine if the debt recovery score for a business partner with open items should be requested.

At event **5058**, you can use the debt recovery score for additional checks, before you submit items to collections manually or in a mass run. (On the SAP Easy Access screen: ***Account -> Submit for Collection -> Submit Items for Collection*** or ***Periodic Processing -> For Contract Accounts -> Submit for Collection -> Submission Run***.)

At event **6251**, you can define postprocessing for items that were not submitted to collections.

At event **6252**, you can fill customer-specific fields in the outbound message of the enterprise service for requesting the debt recovery score. These are fields which were included in the message type using a data type enhancement.

At event **6253**, you can transfer data to your application from customer-specific fields (that were included in the message type using a data type enhancement) from the inbound message of the enterprise service for the debt recovery score response.

Displaying the Debt Recovery Score

You can display the debt recovery score in the following transactions:

- ***Release Items for Collection*** (SAP Easy Access screen: ***Account -> Submit for Collection -> Process Collection Items***)
- ***Management of Submitted Items*** (SAP Easy Access screen: ***Account -> Submit for Collection -> Release Items for Collection***)
- ***Write Off Items*** (SAP Easy Access screen: ***Account -> Write Off Items***)

Effects on Customizing

Enterprise Services for Submit for Collection

First activate the service-oriented interface for the business process ***Submit for Collection*** in Customizing for Contract Accounts Receivable and Payable under ***Integration -> Enterprise Services ->*** **Make Central Settings for Enterprise Services**.

Then you make the necessary settings for collection agency postings in Customizing for Contract Accounts Receivable and Payable in the activities

Define Specifications for Processing Collection Agency Information and **Define Specifications for Collection Agency Postings** under ***Business Transactions -> Submit to Collection Agency***.

You enter the allowed status information for processing at external collection agencies under ***Business Transactions -> Submit to Collection Agency ->*** **Maintain Status of Collection Units**.

You can classify collection units when you submit to collections; you enter the allowed categories under ***Business Transactions -> Submit to Collection Agency ->*** **Define Categories of Collection Units**.

To display status information in the collection history, select the ***Coll.Hist.*** checkbox under ***Business Transactions -> Submit to Collection Agency ->*** **Define Submission Status**

and under ***Maintain Status of Collection Units***. In addition, define a variant for the collection history with the event ***0007 Submit for Collection*** under ***Business Transactions -> Dunning -> Collection History -> Define Variants***.

Debt Recovery Score

First activate the evaluation of the **debt recovery score**. In Customizing for Contract Accounts Receivable and Payable, choose ***Business Transactions -> Submit to Collection Agency ->*** **Define Specifications for Debt Recovery Score**.

In the next activity, you can define **variants for checking the debt recovery score**.

Inbound Correspondence Dunning

Use

As of SAP ECC 6.0, Enhancement Package 4, there is a new dunning activity for creating collection work items that you can use for inbound correspondence dunning. The master data group contains the contract account or the contract. You cannot create enforcement work items using this dunning activity.

SAP provides the dunning activities ***FKK_0746_WLI_CREATE_AND_CLOSE*** and ***FKK_0746_WLI_CLOSE***.

Deferred Revenue Postings

Use

Revenues are posted when a receivables document is posted. These revenues become effective in the posting period in which they are actually posted. This means that these revenues are assigned to the posting period in which they are posted. The regulations in some countries are that revenue accruals/deferrals have to be entered in the general ledger for revenues that do not become effective until some time in the future. Revenues become effective in the future, if the service upon which the revenue is based is actually performed in the future. Recognition of revenues is therefore independent of invoicing. Revenues and accrued/deferred revenues must be posted to separate general ledger accounts.

SAP provides functions for **time-based deferred revenues** as of release 4.51. For time-based deferred revenues, the time of revenue recognition, including the amounts to be transferred, are already known at the time of invoicing. Therefore, this information can be noted already at the time of invoicing. The G/L transfer postings are created by a mass activity.

As of SAP ECC 6.0, Enhancement Package 4, Contract Accounts Receivable and Payable provides functions for posting event-based deferred revenues. For event-based deferred revenues, neither the time nor amount for revenue recognition is known at the time of invoicing. This means that each event that triggers revenue recognition must be reported to the SAP system, along with the date and amount.

Use

The functions for event-based deferred revenue use the following four, new database tables, belonging to three different categories:

- The header table ***DFKKDEFREV_HEAD*** contains an entry for each G/L posting for which the functions for event-based deferred revenue should be used.
- The item table ***DFKKDEFREV_POS*** contains the information for the initial transfer from the revenue account to the G/L account for deferred revenue.
- The trigger tables ***DFKKDEFREV_TRIG*** and ***DFKKDEFREV_TRIGE*** contain the information about the reported events (DFKKDEFREV_TRIG: revenue recognition/DFKKDEFREV_TRIGE: check date) that is processed by the transfer run for deferred revenues.

Interface

SAP provides the following function modules that you can use to implement the functions for event-based deferred revenues:

- ***FKK_DEFREV_BY_EVENT_CREATE***
  The module registers the desired G/L items when an FI-CA document is posted, and thereby activates further processing of these G/L items in the context of event-based deferred revenues.
- ***FKK_DEFREV_BY_EVENT_RAISE***
  The module reports the events (with date and amount).

In the standard system, these function modules are called from invoicing. Invoicing documents arise from billing documents, which in turn can be created using event detail records (EDRs).

Reporting Events

When an event is reported to the SAP system, the system generates a trigger table entry (***DFKKDEFREV_TRIG***/***DFKKDEFREV_TRIGE***).

The transfer run for deferred revenues processes these entries.

Note

It is possible that an event could be reported for an assignment key, although no related assignment key exists in the SAP system. In that case, the event is not processed by the transfer run until the related header entry is available.

Transfer Posting Run

There is a mass activity in Contract Accounts Receivable and Payable that makes the transfer postings for deferred revenue in the general ledger (on the SAP Easy Access screen, choose ***Periodic Processing -> Closing Preparation -> Receivable/Revenue Adjustment -> Event-Based Deferred Revenues -> Transfer Posting Run***).

The mass activity executes the following steps:

1. The system converts the reported events (entries in tables ***DFKKDEFREV_TRIG*** and ***DFKKDEFREV_TRIGE***) into item entries (***DFKKDEFREV_POS***). At the same time, the system adjusts the relevant fields in the table containing the header entries (***BETRA***, ***BETRO***, ***ENDIN***, ***CHCKD*** in table ***DFKKDEFREV_HEAD***).
2. Then the system processes the entries in the item table (***DFKKDEFREV_POS***) and generates transfer documents. The following transfers are possible:

- Posting from the revenue account to the account for deferred revenues (for example, initial transfer, which transfers the entire revenue from the revenue account to the account for deferred revenues)
- Posting from the account for deferred revenues to the revenue account (for example, at revenue recognition)

Adjustment Run

You report already recognized revenues using the adjustment run - assuming the feeder system did not already do so. On the SAP Easy Access screen, choose ***Periodic Processing -> Closing Preparation -> Receivable/Revenue Adjustment -> Event-Based Deferred Revenues -> Adjustment Run***.

Example

- The end of a header entry for an assignment key (DFKKDEFREV_HEAD-ENDIN = 'X') is reached or the check date (DFKKDEFREV_HEAD-CHCKD) is past.
- The remaining amount that is still to be transferred (DFKKDEFREV_HEAD-BETRA) is not zero.
  The adjustment run offers the following options at event 1146 for each selected header entry:
  - Report the amount still to be transferred
    The system creates an entry in table ***DFKKDEFREV_TRIG***.
  - Adjust the check date
    The system creates an entry in table ***DFKKDEFREV_TRIGE***.
  - Process manually
    The user decides, for each header entry, if a new check date is set or if the amount still to be transferred is reported.
    You should use this function only for test purposes, since it is not suitable for processing mass data.

The adjustment run generates the events that are processed by the next transfer posting run. We recommend that you execute the adjustment run immediately after processing the transfer posting run.

Additional Functions

In the document display transaction, you can display the most important attributes of deferred revenue postings by choosing ***Extras -> Deferred Revenues***.

Write-Off

If you want to write off documents (SAP Easy Access screen: ***Account -> Write-Off Items***) for which event-based deferred revenues were posted, you first have to take the following steps:

- Register function module ***FKK_DEFREV_BY_EVENT_WOFF_0020*** at event 0020.
- Register function module ***FKK_DEFREV_BY_EVENT_WOFF_0030*** at event 0030.

If you register these function modules, then, when you write off amounts, events (***DFKKDEFREV_TRIG***) are automatically reported to the SAP system. These events contain, as information, the write-off document that was created at the time of the write-off. Using these events, the system reports the write-off amount proportionally to the relevant assignment keys.

If you do not want the write-off process to influence the processing of event-based deferred revenues, then do **not** register these two function modules at events 0020 and 0030. These function modules are not registered in the standard system.

Test of the Function

You can use the report ***TEST_DEFREV_TABLE_ENTRIES*** to test the processing of event-based deferred revenues. Using this report, you can create a list of all DFKKDEFREV* table entries for an assignment key. To test the reporting of an event (revenue recognition), you can use report ***TEST_DEFREV_RAISE_EVENT***.

Effects on Customizing

Make the following settings in Customizing for Contract Accounts Receivable and Payable:

- Define account determination for deferred revenue under ***Business Transactions -> Deferred Revenue Postings ->*** **Maintain Account Determination for Deferred Revenue Postings**.
- Specify the document type for the documents created by the transfer posting run by choosing ***Business Transactions -> Deferred Revenue Postings ->*** **Maintain Default Values for Transfer Posting Run**.
- Enter an alternate cost center under ***Business Transactions -> Deferred Revenue Postings -> Exchange of No Longer Valid Account Assignments ->*** **Assign New Cost Center**.
- Enter an alternate profit center under ***Business Transactions -> Deferred Revenue Postings -> Exchange of No Longer Valid Account Assignments ->*** **Assign New Profit Center**.

Document Management Service

Use

Document Management Service: Link with Application Objects

As of ECC 6.0, Enhancement Package 4, storing and accessing links between documents and application objects takes place centrally.

For individual application objects, you can decide if you want to use the application-specific link or the new central function.

You can integrate this central management of links in your individual applications using Application Programming Interfaces (APIs). The following functions are supported:

- Create
  Using function module ***FKKDMS_CONNECTION_INSERT***, you can link documents or unprinted correspondence with an application object. After the correspondence is printed using the print workbench or correspondence history, the system automatically adds the correspondence to the Document Management Service. You can use the function module ***FKKDMS_CONNECTION_INSERT*** to link correspondence with an application object even before it is printed. After the correspondence is printed, and thereby added to the Document Management Service, the system automatically updates the links with the information about the documents.
- Delete
  You can use the function module ***FKKDMS_CONNECTION_DELETE*** to delete links between application objects and documents.
- Selection
  Using the function module ***FKKDMS_CONNECTION_SELECT***, you can select documents that are linked to an application object.

Effects on Customizing

If you do **not** want to use the central function for linking documents, then in Customizing for Contract Accounts Receivable and Payable under ***Program Enhancements*** -> **Define Customer-Specific Function Modules**, enter:

- A function module that checks if a document can be deleted
  For example, if a document is used by an application object, then it cannot be deleted.
- A function module that returns which application objects use a document

No other activities are required in order to use the function.

Dunning

Use

As of SAP ECC 6.0, Enhancement Package 4, you can also use the dunning activity for creating collection work items for dunning by dunning procedure. The master data group contains the contract account (the contract) if the contract account (the contract) is a criterion for the dunning grouping.

New Events in Contract Accounts Receivable and Payable

Use

As of SAP ECC 6.0, Enhancement Package 4, you can use the following new events:

- **0114**:*Profit Center for Payment on Account or Down Payment*
- **0394**:*Dunning History: Check whether FKKMAKO Is a Dunning Notice*
- **0430**:*Escheatment: Escheatment Data for Check Creation*
- **0431**:*Escheatment: Data at Start of Escheatment Process*
- **0591**:*Automatic Clearing: Group Items*
- **0663**:*Payments: Set Paying Contract Account*
- **0761**:*Inbound Correspondence: Reminder Days before Due Date*
- **0781**:*Correspondence: Create Dynamic PDF Form*
- **0782**:*Correspondence: Print Dynamic PDF Form*
- **0787**:*Correspondence: Create/Print General Correspondence*
- **0807**:*Creation Event: Escheatment Letter*
- **0808**:*Print Event: Escheatment Letter*
- **1036**:*Collections: Determine Attributes of a Worklist*
- **1037**:*Collections: Determine Separartion Criteria for Worklists*
- **1038**:*Check of Master Data Group for Challenger Strategies*
- **1056**:*Business Partner: Determine Business Partner*
- **1133**:*Document: Business Partner Item Split in Posting in Dialog*
- **1221**:*Account Balance Display: Master Data Relationships*
- **1258**: *Biller Direct: Create/Change Card Data/Bank Data*
- **1263**:*CRM: Determine FI-CA Documents for Invoice*
- **1421**:*Parallel Billing of Payment Cards*
- **1723**:*Mass Activity: Update of Delta Queue*
- **1725**:*Mass Activity: Coinsurance Reporting (for Insurances)*
- **1727**:*Mass Activity: Coinsurance Reporting, Move Parameters*
- **1786**:*Subsequent FM Activation in FI-CA: Conversion of Documents*
- **1804**:*Processing Locks: Plausibility Checks*
- **1872**:*Mass Activity: Revenue Distribution - Post Distribution Documents*
- **1880**:*Mass Activity: Snapshot of Installment Plan for Key Date*
- **1881**:*Adjuster Module for Installment Plan Analysis for Key Date*
- **1882**:*Distribution Algorithm of Installments to Original Receivables*
- **2720**:*INV: Mapping for External Billing Documents*
- **2721**:*INV: Check for External Billing Documents*

- **2722**:***INV: Before Update for External Billing Documents***
- **2723**:***INV:Update for External Billing Documents***
- **2724**:***INV: Check of Reversal of External Billing Documents***
- **2725**:***INV: Customer-Specific Fields of Reversal Billing Documents***
- **2726**:***INV: Before Update of Reversal of External Billing Documents***
- **2727**:***INV: Update for External Reversal Billing Documents***
- **2728**:***INV: Enrich Invoicing Orders for Billing Documents***
- **2729**:***INV: Determine Business Partner of Collective Bill Account***
- **2780**:***XI_INTF: Inbound XI Mapping for CAStmntByElmts***
- **2781**:***XI_INTF: Outbound XI Mapping for CAStmntByElmts***
- **2782**:***XI_INTF: Inbound XI Mapping for CAStmntByID***
- **2783**:***XI_INTF: Outbound XI Mapping for CAStmntByID***
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- **4608**:***XI: Check Business Partner Relationships***
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- **4620**:***XI: References to Receivables Payables Items***
- **4625**:***XI: Read Dunning Notices***
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- **4634**:***XI: Create Inbound Cash Security Deposit Request***
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- **6250**:***Collection Agency: Request Debt Recovery Score***
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- **6252**:***Collection Agency: Enhance Outbound Message for Debt Recovery Score***
- **6253**:***Collection Agency: Enhance Inbound Message for Debt Recovery Score***
- **6260**:***Collection Agency: Grouping of Collection Items***
- **6261**:***Collection Agency: Outbound Information for Collection Payments***
- **6262**:***Collection Agency: Business Partner Data for Outbound Service***
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- **6264**:***Collection Agency: Display of External Information for Collection Case***
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- **6268**:***Collection Agency: Assignment of Inbound Amount Information***
- **6269**:***Collection Agency: Outbound Information for Collection Units***

- **8026**:***BILL: BI Mass Activity Interval: Extraction of EDRs***
- **8027**:***BILL: BI: Customer-Specific Checks for BI-Relevance of EDRs***
- **8028**:***BILL: BI: Customer-Specific Fields in Extract Structure for EDR_00***
- **8037**:***BILL: Monitoring of Billing Account Facts: Fill Customer Fields***
- **8038**:***BILL: Monitoring of Billing Account: Change Layout***
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- **8040**:***XI_INTF: Inbound XI Mapping: CAINVTSK Create Request Synchronously***
- **8041**:***INTF: Outbound XI Mapping: CAINVTSK Create Request Synchronously***
- **8042**:***XI_INTF: Inbound XI Mapping BSRecord Create Request (EDR)***
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- **8050**:***XI_INTF: Inbound XI Mapping: BSA Create Request Asynchronously***
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- **8052**:***XI_INTF: Inbound XI Mapping: BSA Cancel Request Asynchronously***
- **8053**:***XI_INTF:Outbound XI Mapping: BSA Create Confirmation Asynchronously***
- **8054**:***XI_INTF: Outbound XI Mapping: BSA Change Confirmation Asynchronously***
- **8055**:***XI_INTF: Outbound XI Mapping: BSA Cancel Confirmation Asynchronously***
- **8062**:***XI_INTF: Inbound XI Mapping BSRecordFindByElements***
- **8063**:***XI_INTF: Outbound XI Mapping BSRecordFindByElements***
- **9600**:***RE: Document Split for Billing Document***
- **9601**:***RE: Fill Industry-Specific Fields in Billing Document***
- **9602**:***RE: Determination of Billing Document to Be Adjusted***

Effects on Customizing

You define installation-specific function modules in the Implementation Guide for Contract Accounts Receivable and Payable under ***Program Enhancements ->*** **Define Customer-Specific Function Modules**.

External Cash Desk Services

Use

As of SAP ERP 6.0, Enhancement Package 4 (Release 6.04), you can use the following functions as part of external cash desk services:

- Process deposits, withdrawals and cash desk differences of external cash desks
- Enter G/L postings and down payments to external cash desks or in branches in expanded form
- Check the cash balances of external cash desks and payment collectors (branches)

The functions of the cash journal are not changed by these enhancements. In the cash journal, you can continue to make cash journal entries directly in the SAP system as before. This means that you can enter payments directly in the system and run reports on them, as well as create follow-on postings in the cash balance, such as, deposits, withdrawals, differences and reversals.

The external cash desk services make the following enterprise services available, whereby the transfer of data between the SAP system and the external cash desk system can be synchronous or asynchronous using the ***SAP Exchange Infrastructure (XI)***.

- ***CashPointDepositERPNotification***
  The ***CashPointDepositERPNotification*** service is an asynchronous process that sends deposits to external cash desks to FI-CA.
- ***CashPointDepositERPCancellationNotification***
  The ***CashPointDepositERPCancellationNotification*** service is an asynchronous process that sends reversals of deposits to external cash desks to FI-CA.
- ***CashPointDifferenceERPNotification***
  The ***CashPointDifferenceERPNotification*** service is an asynchronous process that sends difference postings made to an external cash desk to FI-CA.
- ***CashPointDifferenceERPCancellationNotification***
  The ***CashPointDifferenceERPCancellationNotification*** service is an asynchronous process that sends reversals of difference postings made to external cash desks to FI-CA.
- ***CashPointWithdrawalERPNotification***
  The ***CashPointWithdrawalERPNotification*** service is an asynchronous process that sends withdrawals from external cash desks to FI-CA.
- ***CashPointWithdrawalERPCancellationNotification***
  The ***CashPointWithdrawalERPCancellationNotification*** service is an asynchronous process that sends reversals of withdrawals from external cash desks to FI-CA.
- ***CashPointPaymentCreateNotification***
  The ***CashPointPaymentCreateNotification*** service is an asynchronous process that sends G/L account postings made to an external cash desk to FI-CA.
- ***CashPointPaymentReverseNotification***
  The ***CashPointPaymentReverseNotification*** service is an asynchronous process that sends reversals of G/L account postings made to external cash desks to FI-CA.
- ***CashPointERPBalanceByIDQuery***

The ***CashPointERPBalanceByIDQuery*** service is a synchronous process that requests the cash balance of an external cash desk or an external payment collector (branch).

- ***CashPointERPBalanceByCashPointOfficeIDQuery***
  The ***CashPointERPBalanceByCashPointOfficeIDQuery*** service is a synchronous process that requests the cash balance for individual external payment collectors (branches).

For offline branches and agents, SAP makes the following XI messages available for postings to G/L accounts and in the cash journal, as well as for reports on the cash balance.

- G/L account postings: ***CashPointPaymentCreateNotificationService***
- Posting of deposits: ***CashPointDepositERPNotificationService***
- Posting of withdrawals: ***CashPointWithdrawalERPNotificationService***
- Posting of differences: ***CashPointDifferenceERPNotificationService***

For the inbound XI messages, the FI-CA system attempts to generate the postings directly. The FI-CA system assigns status ***R*** to postings that it is not able to generate directly.

For these failed G/L account postings, the system creates a payment lot, which you can then close and post in the monitor. If a lot receives ***Postprocessing*** status after posting has taken place, you later have to clarify the payment lot items involved.

External cash desk services now also support the reversal of postings that were sent using XI. The SAP system receives the XI messages and posts the reversal directly in FI-CA.

Reversals that the system cannot make directly receive status ***D***. The following enterprise services are available:

- Reversal of G/L account postings:
  CashPointPaymentReverseNotificationService
- Reversal of deposits: ***CashPointDepositERPCancellationNotificationService***
- Reversal of withdrawals:
  CashPointWithdrawalERPCancellationNotificationService
- Reversal of difference postings:
  CashPointDifferenceERPCancellationNotification Service

Cash Balance

You can now determine the cash balance of external cash desks using the ***SAP Exchange Infrastructure*** (XI).

Enhancement of Monitor for External Cash Desk Services

Using the monitor for external cash desk services, you can now also manage and track postings and cash balances that you receive by means of the ***SAP Exchange Infrastructure***. On the SAP Easy Access screen, choose ***Payments -> External Cash Desk Services -> Monitor External Cash Desk Services***. The monitor provides you, for instance, with access to deposits, withdrawals and difference postings, G/L account postings, and cash balances for external payments. You can select data at the level of the external cash desk or agent, using the extended selection criteria.

You can process postings in the cash journal and cash balances on the following new tab pages:

- ***Cash Journal Operations***
  Here you can display information on all postings in the cash journal, along with their status. In addition, you can repeat the posting for postings that were not successful, or set their status to ***Manual Postprocessing Required***. After manual posting has taken place, you can set the status ***Manual Clarification*** here. You can also update all postings received using enterprise services.
- ***Cash Balance***
  The tab page shows the cash balance for all postings. You can check the cash balance at two different levels - for the branch or for the cash desk of a branch.

The ***Overview***, ***XI Monitor*** and ***Payments*** tab pages contain the following enhancements:

- ***Overview***
  Here you can select the grouping key and master data by date or by date intervals.
  Selecting by master data returns all payments and G/L account postings with their status when you specify the agent or the cash desk.
  Selecting by grouping key returns the status of all grouping keys.
  If the status is not correct, you can repeat the posting here to correct the error. Then you can display the new status by updating.
- ***XI Monitor***
  Here you can now navigate directly to the XI message for new message categories.
- ***Payments***
  You can now obtain more information on G/L account postings.

Integration with ***Incentive and Commission Management*** (ICM)

As of SAP ERP 6.0, Enhancement Package 4 (Release 6.04), you can implement ***Incentive and Commission Management*** (ICM) for agent postings as part of external cash desk services.

If you have **agents** who process incoming payments, you can benefit from the integration of ***Incentive and Commission Management*** (ICM) with Contract Accounts Receivable and Payable for calculating agent commissions. Commissions can be calculated, for example, on the total value of collected payments or on the number of processed payments.

The prerequisite for using this integration is that you are already using the ***Incentive and Commission Management*** (ICM) component. If you then activate the integration in Customizing of Contract Accounts Receivable and Payable, the system transfers the appropriate payment data to the ICM system automatically. As a result, you can calculate the agent commissions (using the timing that suits you), and transfer the billing data back to the FI-CA system. The FI-CA system then automatically posts a credit to the agent's account.

These are the steps:

1. You post all incoming payments in FI-CA under a grouping key.
2. As part of closing the cash desk in FI-CA, for instance at the end of the business day, you close the grouping key.

3. After closing the cash desk successfully, you use the ***Post Agent Receivable*** transaction (on the SAP Easy Access screen, choose ***Payments -> External Cash Desk Services***) to post the receivables to the agent accounts.
   If integration with ***Incentive and Commission Management*** is active, the system automatically transfers the data entered under the grouping key to the ICM system.

1. In the ICM system, you calculate the commission due to the agents for each grouping key. You can choose how often you want to make this calculation (daily, weekly, monthly).

Effects on Customizing

These options are now available in Customizing for Contract Accounts Receivable and Payable under ***Business Transactions -> Payments -> Processing of Incoming/Outgoing Payments -> External Cash Desk Services***:

Make Specifications for Posting Cash Desk Deposits and Withdrawals

Define Accounts for Expense/Revenue from Cash Desk Differences

Define Specifications for Agent Commissions

You can activate the integration with ***Incentive and Commission Management*** (ICM) in the activity **Define Master Data for External Cash Desk Services** by setting the ***Comm.Act.*** indicator for the affected branches.