IS-U SAP Utilities

SAP ERP Central Component
Release 6.0

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40 IS-U  SAP Utilities

40.1 Changes to Implementation Guide (IMG) for SAP ECC Industry Extension Utilities, Waste & Recycling 6.0

Use

Changes have been made to the structure in the SAP Utilities (IS-U) areas mentioned below.

To adopt these changes in your project IMGs, you must regenerate these areas.

- Basic Settings/Enterprise Structure
  The Deregulation: Define Enhanced Authorization Check activity is new.

- Energy Data Management
  In the Profile Management section, under the Profile Allocation node, a new maintenance object has been allocated to the Define Roles for Profile Allocation activity, and the Allocate Roles to Operand activity has been added.

- Waste Management
  - In the Basic Settings section, the Preassign Processing Mode for Single-Screen Transactions activity has been added.
  - In the Master Data section, under the Service Frequency node, the Define Service Grouping activity has been added.
  - In the Master Data section, under the Container node, the Allocate Material Type to (Container) Group Type activity has been added.
  - In the Master Data Section, under the Container Location, the Define Checks for Allocation of Objects to Container Location has been added.
  - In the Master Data Section, under the Billing node, the Define Processes for Automatic Adjustment Reversal activity has been added.
  - In the Waste Disposal Facility section, under the Basic Data node, the Define Number Ranges for Procedures Within Facility and Define Allocation of Maintenance Notifications to Operations Log activities have been added.
  - In the Waste Disposal Facility section, under the Weighing Connection node, the Define Number Range for Offline Weighing Documents activity has been added.

- Intercompany Data Exchange
  - The Payment Control section was moved behind the Bill and Payment Advice Note Processing section.
  - In the Data Exchange Processes section, the Define Sending Type for IDoc has been added.
  - In the Process Management section, the Define Usage of Process Variants for Identification of Points of Delivery activity has been added.
- In the Change of Supplier section, the Define Usage of Required Field Check and Define Cancellation Conditions for Checking Minimum Duration of Contract activities have been added.

- The Bill Creation (Aggregated) section, with the Outgoing Bills and Incoming Bills nodes, is new. Existing activities have been reassigned to this section, and the new Define Grouping Characteristic for Aggregated Contract Account activity has been added.

- Tools

- In the Archiving segment, activities have been renamed to meet SAP standard terminology requirements:
  Define Retention Period for Archiving Objects
  Define Retention Period for Bill/Payment Advice Note Data

- In the System Modifications section, under the Customer-Specific Function Enhancement for Billing, you can now find the new subnode Framework for Simplified Document Line Correction, along with the following two new activities:
  Basic Settings (Activate Function)
  Define Individual Correction Methods

40.2 IS-U-MD  Master Data

40.2.1 IS-U-MD-BP  Business Partner

40.2.1.1 Support of XI Inbox and Outbox for Business Partner

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 and SAP ECC Industry Extension Telecommunications 6.0, identification numbers are mapped to driver's license number, welfare number, and social insurance number for the XI interface. An optional role mapping from contract partner to credit manager is also possible. This is particularly advantageous for an existing connection to a credit management system.

In an exit in the inbox, you can determine a sample customer for the creation of a corresponding SD customer.
40.2.2 IS-U-MD-IN  

Installation

40.2.2.1 Industry Field Changed in Utility Installation Tables (Changed)

Use

For *SAP ECC Industry Extension Utilities, Waste & Recycling 6.0*, the industry field in database table EANLH has been replaced by a combination of industry and industry system. This change applies to database table EANLH as well as to all tables and structures that use include EANLHDATASAP.

As a result, the utility installation follows the industry conversion of the business partner for ABA Release 50A.

The *BRANCH* field for check table TB023 has changed to table TB038A. Note 727205 describes how to transfer the old values from check table TB023 to table TB038A.

Effects on Existing Data

This change applies to database table EANLH as well as to all tables and structures that use include EANLHDATASAP.

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40.2.3 IS-U-MD-POD  

Point of delivery

40.2.3.1 Update of Change Documents for Point of Delivery (New)

Use

As of *SAP ECC Industry Extension Utilities, Waste & Recycling 6.0* changes to the *point of delivery* object are logged. You can have the system display the changes. You do this from the point of...
delivery transaction menu, under Extras -> Change Documents.

As well as the header data, changes to the following dependent data are taken into account for a point of delivery:

- Point of delivery ID
- Grid
- Installation allocation
- Register allocation

40.3 IS-U-DM  Device Management

40.3.1 IS-U-DM-DI  Device installation

40.3.1.1 Reversal of installation/removal/replacement with goods movement (enhanced)

Use


If the settings you made in Customizing mean that goods movements are possible within an installation/removal/replacement, you can enter goods movement data for the installation/removal/replacement when you access the reversal transaction (the same applies for device installation/removal/replacement).

You can also use an existing customer enhancement to preassign the goods movement data on a project-specific basis.

Effects on Customizing
By following the Customizing path SAP Utilities -> Device Management -> Installation -> Basic Settings -> Define System Parameters for Installation/Removal/Replacement you can make the following setting:

GOODSMVMT: Goods movement during installation, removal, and replacement

40.4 IS-U-EDM Energy Data Management

40.4.1 Formula Profile (Enhanced)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, the following functions have been added to the formula profiles:

Archiving Formula Profiles

You can now also archive profiles that belong to the Formula Profile category. The existing archiving object ISU_PROFV has been modified accordingly.

Archiving allows you to reduce the load on your database by archiving formula profile values that you no longer need online. The profile values are deleted from the database and written to archive files. You can display archived files in the Display Profile Values transaction.

You can find the Archive EDM Profile Values in the Utilities Industry menu under Tools -> Data Archiving -> Energy Data Management -> Archive Profile Values.

A check takes place during formula profile calculation to determine whether the period for calculation (from-date of the calculation trigger) falls before or on the same day as the archive-to date in the profile header of the input and output profiles.

If this is the case, the calculation of the formula allocation is canceled.

Analysis and Deletion Function for Calculation Runs

For the asynchronous calculation runs, control and administration data is written to tables EFORMULAINSTCALC, EFORMULAHIER, and EFORMULAINTERVAL. As the number of entries can rise relatively quickly, it is necessary to delete data. Report REEDMFICALC_DEL_RUN_CONTR_DATA is provided for this purpose. This report can be executed in analysis or in deletion mode. You can define project-specific selection criteria for the status flags in enhancement ISU_EDM_FORMPROF (method: CHANGE_STATUS_FLAGS).

New Formula for Generating Profiles for Interruptible Supply

With the new formula OPSH_HZ01 (FuMo: ISU_EDM_FORMULA_0020), you can calculate a profile
(HZ0), a second profile (measured temperature value), and a factor profile (equivalent day average temperature) from a temperature-dependent profile group, the day average temperature, and the standard temperature.

**Effects on Customizing**

**Activating the Archive Info Structures**

Before the first start of an archiving run, you have to activate the archive info structures: Customizing for *SAP Utilities* -> *Tools* -> *Archiving* -> *Activate Info Structure for Archiving*.

**Define Retention Period for Archiving Objects**

You use the retention period to define which objects to archive: Customizing for *SAP Utilities* -> *Tools* -> *Archiving* -> *Define Retention Period for Archiving Objects*.

**Formula for Generating Profiles for Interruptible Supply**

You define this formula in Customizing for *SAP Utilities* under *Tools* -> *System Modifications* -> *User-Defined Enhancements for Energy Data Management* -> *Formulas*.

**40.4.2 Settlement (Changed)**

**Use**

As of *SAP ECC Industry Extension Utilities, Waste & Recycling 6.0*, new reports are available for settlement. You can use these reports to execute synthetic settlement for specific customer groups and to determine overtake and undertake amounts.

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<td>Customer group-specific determination overtake and undertake amounts</td>
<td>REEDMSETTLPROC_FINSETTL_GRP</td>
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The new report REEDMSETTLPROC_VV2_SYNTH_GRP is mostly the same as report REEDMSETTLPROC_VV2_SYNTH. In addition, a load profile (settlement parameter
PrLoadSupGrp01) is made available as a result parameter of the settlement run for each settlement unit and non-interval customer group. In contrast to REEDMSETTLPROC_VV2_SYNTH (where settlement parameter PrLoadSupGrp01 is only an interim result), the result profile is filled with initial values for customers who have points of delivery that are not relevant for settlement.

The new report REEDMSETTLPROC_FINSETTL_GRP is mostly the same as report REEDMSETTLPROC_FINSETTL, except that settlement step DIFFGRPSU is called instead of DIFFSU. As a result, the overtake and undertake amounts for each customer group of each settlement unit (settlement parameter PrDiffLoadSupGrp) are made available as result parameters. For customer groups with points of delivery that are not relevant for settlement, the result profile is filled with initial values.

You can use the new settlement steps:

<table>
<thead>
<tr>
<th>Settlement step</th>
<th>Description</th>
<th>Implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMRES08SU</td>
<td>Determination of customer group load profiles</td>
<td>CL_ISU_EDM_SETTLESTEP_0027</td>
</tr>
<tr>
<td>CL_ISU_EDM_SETTLESTEP_0027 DIFFGRPSU</td>
<td>Determination of customer group specific overtake and undertake amounts</td>
<td>CL_ISU_EDM_SETTLESTEP_0028</td>
</tr>
</tbody>
</table>

You can use the new settlement parameters:

<table>
<thead>
<tr>
<th>Settlement parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PrLoadSupGrpSet</td>
<td>Settled total load shape for each customer group of the settlement unit</td>
</tr>
<tr>
<td>PrDiffLoadSupGrp</td>
<td>Overtake and undertake amounts for each customer group of the settlement unit</td>
</tr>
</tbody>
</table>

**Effects on System Administration**

To determine overtake and undertake amounts for specific customer groups, you can use the reports provided or you can incorporate the new settlement steps in already implemented workflows or settlement reports. Only settlement step SUMRES08SU guarantees that all permanently saved customer group-specific result profiles are filled with initial values if no points of delivery are selected for the customer group and settlement unit.

**Effects on Customizing**

The following table contains the parameters for settlement procedures

<table>
<thead>
<tr>
<th>Settlement procedure</th>
<th>Parameter type</th>
<th>Parameter number</th>
</tr>
</thead>
</table>
**Parameter/Description**

Customer group-specific synthetic settlement  
Output parameter  
1  PrLoadSupAll - Total load shape for each settlement unit including sub-settlement unit (same as VV2_SYNTH)  
2  PrLoadSupGrp01 - Load profile of non-interval customer group of settlement unit  
Customer group-specific determination of overtake and undertake amounts  
Input parameter  
1  PrLoadSupGrpSet - Settled total load shape for each customer group of settlement unit (corresponds to planned consumption)  
Interim result  
1  PrLoadSupGrp01 - Load profile of non-interval customer group of settlement unit (corresponds to actual consumption)  
Output parameter  
1  PrDiffLoadSupGrp - Overtake and undertake amount for each customer group of settlement unit

In Customizing for the settlement procedure for determining overtake and undertake amounts for specific customer groups, you must ensure that a synthetic procedure that provides customer group-specific results is entered as an upstream settlement procedure. If the standard settlement procedure VV2_SYNTH is used as an upstream settlement procedure, the overtake and undertake amounts may not always be correct. Only settlement step SUMRES08SU guarantees that all permanently saved customer group-specific result profiles are filled with initial values if no points of delivery are selected for the customer group and settlement unit.

### 40.4.3 Mapping Interruptible Supply (New)

**Use**

As of **SAP ECC Industry Extension Utilities, Waste & Recycling 6.0** you can map interruptible supply in the system.

**Formula for Generating Load Profiles**

The new formula OPSH_HZ01 Formula Profiles now exists for determining a synthetic profile (HZ0), a measured temperature value (MTV), and a factor profile (equivalent day average temperature - EDA) from a temperature-dependent profile group, the day average temperature, and the standard temperature.

**Profile Allocation**

Additional consistency checks have been added to the dialog for allocating a profile to an installation:
- You can only create a dependent profile allocation if a unique and complete source profile allocation exists for the allocation period.
- You can not change the usage factor of a dependent profile allocation manually. Any manual changes to the usage factor of a profile allocation with a source role are copied automatically to the target role.

- You cannot delete a profile allocation if a dependent load profile allocation exists for the allocation period.

**Determination of the Usage Factor**

The following functions have been added to the function for determining usage factors for billing:

- You can use the Allocate Operand Role activity to control which of a usage factor's roles are updated with regards to an operand.

- When updating the usage factors, you can determine the usage factor of target role R1 taking into account the usage of the profile allocated to source role R2. You allocate source roles to target roles in Customizing under Define Roles for Profile Allocation.

**Effects on Existing Data**

If you do not change the existing Customizing settings, existing data constructs are not affected by the further development.

**Effects on Customizing**

You allocate source roles to target roles in Customizing for SAP Utilities under Define Roles for Profile Allocation.

**40.5 IS-U-BI Contract Billing**

**40.5.1 IS-U-BI-PC Billing Execution**

**40.5.1.1 IS-U-BI-PC-MA Manual Billing**

**40.5.1.1.1 Framework for Easy Bill Correction (New)**

**Use**

As of *SAP ECC Industry Extensions Utilities, Waste & Recycling 6.0*, the new easy bill correction framework provides you with a flexible option for correcting billing documents at line item level. You can then further process the resulting manual correction documents using existing standard functions (such as invoicing, printing).
This new form of document line item correction is intended for billing documents that have been migrated from a source system, or for billing document line items that were created in IS-U but that have already been archived. It is similar to an adjustment reversal in that the original document is not reversed.

The new function consists of the following elements:

- **Data pool**
  The data pool is a logical view of the correctable billing documents, whose header data exists in operational table ERCH.
  For migrated billing documents, it is now also possible to define a specific storage location outside of the operational database table. Only read-only access to these reduced billing document line items is granted. Corrections can only be made using the new correction framework.
  You can configure the application area to specify whether the new correction function can only be used for migrated billing document line items or whether it can also be used for line items that have already been archived.

- **Correction framework**
  The correction framework enables you to correct the document line items of a billing document from the data pool using correction methods, which you can define individually. The result of the correction process is a manual billing document, which you can further process using the normal standard functions.
  You can use *business add-ins* (BAdIs) to completely automate the correction process.

**Effects on Existing Data**

The correction framework is a new tool and is therefore completely independent of the existing billing function. Therefore, it is not necessary to change any existing processes.

Billing document line items have already been archived, can be corrected in the Customizing as soon as the framework has been activated, as long as billing document header still exists in the operational system.

**Effects on Data Transfer**

If you want to use the new function to correct documents from the legacy system, use the new migration object BILLDOCEBF to transfer the data. This object has a simplified interface with reduced document data and it saves the data in the defined storage location in the data pool.

As a result, the efforts of migration are reduced and less memory is required in the database compared to a full migration. The alternative migration object BILLDOC is still available without restrictions in is used in particular for backbilling and dynamic period control.

**Effects on Customizing**

You must execute the following activities before you can use the framework:

- Activate Framework
- Define Correction Methods
40.6 IS-U-IN  Invoicing

40.6.1 IS-U-IN-PC  Invoice Processing

40.6.1.1 Invoicing Document for Budget Billing Changes (New)

Use

As of SAP ECC Industry Extensions Utilities, Waste & Recycling 6.0, you can create an invoicing document for changes to budget billing plans.

Previously, changes to budget billing amounts were only sent to end customers for information purposes. The new development meets new legal requirements that state that such procedures must now be treated as bills.

The new function allows you to create documents for changes to budget billing amounts for all customers or for selected customers. In the process, a print document is created, which is specially marked and which provides the following benefits:

1. Tracability by means of a unique document number
2. Archiving
3. Connection to the extraction of GdPDU (German Principles of Data Access and Verifiability) data

It is still possible to print out changes to budget billing amounts as an information notice.

Effects on Customizing

You can make the settings for the new budget billing amount change documents in the System Parameters for Budget Billing Plan activity in the Budget Billing Request for Debtor and Budget Billing Request for Cash Payer fields. These settings are valid for all clients.

You can also control the use of the documents for changes to budget billing amounts individually. Therefore, the same fields are also available in the contract account.

40.6.2 IS-U-IN-BB  Budget Billing Plan

40.6.2.1 Joint Processing of Payment Plans (New)

Use

You can now carry out joint processing for payment plans that are invoiced together. Up until now it has only been possible to process payment plans individually.

You can use the two new transactions EK93C and EK94C to display or change payment plans together.
40.6.2.2 Determine Change Date in Budget Billing Plan at Move-In (New)

Use
As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can use the new R925 event to determine for yourself the date, from which due dates can be requested, if a budget billing plan is added to an existing budget billing plan within the move-in.

Effects on Customizing
In Customizing, you can define a customer-specific function module for event R925, if the standard is not sufficient.

See also
For more detailed information, see the documentation for the function module ISU_SAMPLE_R925.

40.6.2.3 Partial bills with multilevel tax procedures (new)

Use
If you use the 'partial bill' budget billing plan procedure, you can now also use multilevel tax procedures, such as the tax jurisdiction code. Previously it was not possible to use multilevel tax procedures together with partial bills.

Effects on Customizing
With this new function, the tax determination for partial bills always takes place at the time of invoicing. For this reason, you can specify a date type for the tax determination for partial bills. You do this in Customizing in the TE503 table (basic settings for invoicing). When you upgrade your IS-U system, the previous value from the "Date type for tax determination in invoicing" field is automatically entered in this field.

40.6.2.4 Invoicing Document for Budget Billing Changes (New)

Use
As of SAP ECC Industry Extensions Utilities, Waste & Recycling 6.0, you can create an invoicing document for changes to budget billing plans.

Previously, changes to budget billing amounts were only sent to end customers for information purposes. The new development meets new legal requirements that state that such procedures must now be treated as bills.

The new function allows you to create documents for changes to budget billing amounts for all customers or for selected customers. In the process, a print document is created, which is specially marked and which provides the following benefits:

1. Tracability by means of a unique document number
2. Archiving

3. Connection to the extraction of GdPDU (German Principles of Data Access and Verifiability) data
It is still possible to print out changes to budget billing amounts as an information notice.

Effects on Customizing

You can make the settings for the new budget billing amount change documents in the System Parameters for Budget Billing Plan activity in the Budget Billing Request for Debtor and Budget Billing Request for Cash Payer fields. These settings are valid for all clients.

You can also control the use of the documents for changes to budget billing amounts individually. Therefore, the same fields are also available in the contract account.

40.7 IS-U-CA Contract Accounts Receivable and Payable

40.7.1 Account balance display

Use

Account balance display for large accounts by means of snapshots.

For individual business partners with lots of items, you can create the account balance display from a preselected set of items. You should update this set at regular intervals.

You manage the business partners for whom this dataset is to be created in the new table TFK021_SNAP. Changes to this table are current settings, which means that you can also make entries in the productive system. The new report RFKKSNAP (SAP menu: Account -> Account Balance Snapshot) creates the current dataset for all business partners or selected business partners in this table and saves it as a data cluster in the database in the form of a snapshot.

When you call up the account balance display, the system checks whether a unique business partner can be determined from the selection conditions. If you select by contract account or contract, you can use the new event 1219 here to determine a business partner. If you use account balance roles or event 1210 such that several selections are derived from one selection, the system does not evaluate the snapshot.

If the system has determined a business partner and a snapshot exists for this business partner, this snapshot is imported. The system checks the current selection conditions and displays the result in the list with corresponding information that the data is not up-to-date and with the date of the snapshot.

For installment plans, the snapshot contains the installment plan items and not the original item for these installment plan items. Therefore, when the original items for installment plans are desired in the list category, the snapshot is not used for the display.

If you are in a snapshot display, you can deactivate the snapshot from the menu via Account Balance -> Current Status. The system then reads the current data.
Effects on Customizing

Account balance display for large accounts by means of snapshots.

In the Implementation Guide for Contract Accounts Receivable and Payable under Basic Functions -> Account Balance Display -> Define Business Partner for Creation of Snapshots, you can enter business partners with large numbers of items.

This setting is one of the current system settings and, therefore, you can access it in the menu under current settings (Business Partner for Snapshots).

40.7.2 Archiving

Use

New Archiving Object: Convergent Billing

You can use the new archiving object FI_MKKTHP to archive the transfer records for convergent billing. The prerequisites for the archiving are described in the documentation of report RFKKTHPAR01.

New Archiving Object: Collection Agency

With the new archiving object FI_MKKCOLL you can archive data that is saved in connection with the submission of receivables and credits to a collection agency. The prerequisites for the archiving are described in the documentation of report RFKKCOLLAR01.

New Archiving Object: Cash Journal

With the new archiving object FI_MKKCJ you can archive cash journal data. The prerequisites for the archiving are described in the documentation of report RFKKCIAR01.

New Archiving Object: Sample Documents

You can archive sample documents with the new archiving object FI_MKKMDOC. Only sample documents that are not archived with the IS-U budget billing plan or that are created and deleted within installment plans are considered. The prerequisites for the archiving are described in the documentation of report RFKKMDOCAR01. For sample documents with a certain origin, such as sample documents created manually, you have to run a preprocessing program. For more information, see the documentation of the relevant industry component and the documentation of report RFKKMDOCAR04.

New Archiving Object: Item List in Cases

You can use the new archiving object FI_MKKCASE to archive the data from the item list for (dispute) cases. The prerequisites for the archiving are described in the documentation of report RFKKCASEAR01.

New Archiving Object: Payments Subject to Stamp Tax

With the new archiving object FI_MKKSTPY you can archive data that is saved in connection with the posting of payments subject to stamp tax. The prerequisites for the archiving are described in the documentation of report RFKKSTPYAR01.

New Archiving Object: Tax Information for Commercial Operations

You can use the new archiving object FI_MKKBGA to archive tax information for commercial operations.
posted in FI-CA. The prerequisites for the archiving are described in the documentation of report RFKKBGAAR01.

**New Archiving Object: Debit Memo Notifications**

With the new archiving object **FI_MKKPNBK** you can archive the history of debit memo notifications. If the business partner has already been archived, the current debit memo notifications for this business partner are archived. The prerequisites for the archiving are described in the documentation of report RFKKBPNBKAR01.

**New Archiving Object: Payment Specifications**

With the new archiving object **FI_MKKIP** you can archive data for payment specifications. The prerequisites for the archiving are described in the documentation of report RFKINDPAYAR01.

**Enhancement of Document Archiving**

With Release 6.00, the workflow parameters for FI-CA documents are also archived (table **DFKKKO_WF**). There are no additional checks. See the documentation for Document Archiving Device. The deletion program of the document archiving device is now started automatically.

**Enhancement of Business Partner Archiving**

You can also archive the data of the write-off history (table **DFKKWOH**). The data extract of the business partner data (table **FKK_GPSHAD**) and the corresponding business partner are deleted. There are no additional checks.

**Enhancement of Dunning History Archiving**

The new table **FKKMAREDUCT** is archived with the corresponding data object with no further checks.

**Log Changeover**

With Release 6.00, the log output of all Contract Accounts Receivable and Payable archiving objects has been changed. You can now select the output either as classic list or application log. Additional information that was previously displayed in the log is still available in the application log.

- Previously, the number of entries for each table was specified for each data object written. This information now appears as detail information for each success message of the data object.

- In the case of document archiving, you were previously able to display additional information. This is output as detailed information for each error message.

**System Variants for Deletion Job**

The system variants delivered by SAP that are used in the deletion programs have been adjusted for the new program. Output in the application log is supported. Depending on whether you choose test or update mode, a detailed or minimal log is written.

To archive the master data, you have to adjust the variants that you have created yourself manually.

**Effects on Customizing**

Maintain the archiving terms for the following archiving objects in the Implementation Guide for Contract
Accounts Receivable and Payable:

- Collection agency (FI_MKKCOLL)
  Choose Business Transactions -> Submission of Receivables to Collection Agency -> Archiving

- Cash journal (FI_MKKCJ)
  Choose Business Transactions -> Payments -> Archiving

- Sample documents (FI_MKKMDOC)
  You maintain the life of sample documents under Business Transactions -> Postings and Documents -> Archiving.

- Item list in cases (FI_MKKCASE)
  Choose Integration -> Financial Supply Chain Management > Dispute Management -> Archiving.

- Payments subject to stamp tax (FI_MKKSTPY)
  Choose Basic Functions -> Special Features of Tax Processing -> Archiving.

- Tax information for commercial operations (FI_MKKBGA)
  Choose Basic Functions -> Special Features of Tax Processing -> Archiving.

- Debit memo notification (FI_MKKPNBK)
  Choose Business Transactions -> Payments -> Archiving

- Payment specification (FI_MKKIP)
  Choose Business Transactions -> Payments -> Archiving

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40.7.3 Authorization objects

Use

*Authorization checks in search helps for contract account*

In search helps for the contract account, the system checks the authorization for displaying master data for the authorization group in the master record (F_KKVK_BEG). Contract accounts where the authorization is missing do not appear in the search help.

If the new indicator Check Contract Account Category Authorization in Search Help is set in the contract account category, the system also checks the authorization object F_KKVK_VKT with the activity Display.

*Authorization checks for Funds Management account assignments*

When you post, process, and display documents and requests and in the account balance display, the system checks the Funds Management account assignments. It does this if Funds Management is active and in Customizing for Funds Management, the check for old activities (FMISPS-AUTHACT_OLD) has not been activated. The system checks the authorizations objects for the account assignment elements for Funds Management (commitment item, funds center, fund).

*Authorization object for reconciliation key and posting totals*
With the authorization object \textit{F\_KKSU}, you can now protect the reversal in the general ledger (FI-GL) and profitability analysis (CO-PA) with activity \textit{85}.

\textit{Authorization object for special functions}

With authorization object \textit{F\_KK\_SOND}, you can now protect the new evaluations for open items with activity \textit{112}.

### 40.7.4 BAPIs

\textit{Use}

\texttt{BAPI\_CTRACDOCUMENT\_CREATE: Methode CtrAcDocument.Create}

The method \texttt{CtrAcDocument.Create} of the BAPI \texttt{BAPI\_CTRACDOCUMENT\_CREATE} now contains the parameter \texttt{RecKeyInfo}. Using the information in this parameter, the system searches for an open reconciliation key or creates a new reconciliation key if no reconciliation key is transferred to the document.

### 40.7.5 BEPDTA Payment Medium Format for Belgium (New)

\textit{Use}

A new payment medium format is available for Belgium in \textit{Contract Accounts Receivable and Payable} (FI-CA). The format, BEPDTA, is based on the format version 3.1 and corresponds to the format specifications published by the Belgian Bankers' Association in April 2003.

You use the BEPDTA format in conjunction with the payment program and payment media program to generate a file for foreign payment orders.
40.7.6 Black Lists

Use

*Prevention of payment transactions*

After the terrorist attacks of September 11, measures to prevent foreign transactions of terrorist forces were considerably increased (for example, through instructions from the German Federal Ministry of Economics and Labor (BMWA), and regulations of the Council of the European Union and the European Commission).

Supervisory authorities no longer accepted manual monitoring of payment transactions as practised by many financial service providers. Insurance companies and banks are now required to prevent payment transactions with persons named in sanctioned party lists (SPL) and embargo countries.

From Release 6.00, SAP supports you in implementing these legal regulations in payment transactions. The relevant functions of the component Global Trade Services (SAP GTS) have been integrated into Contract Accounts Receivable and Payable (FI-CA). You can now compare master data automatically with the regularly published sanctioned party lists, such as that from the Office of Foreign Asset Control (OFAC) in the USA, lists from BMWA, or the EU, and apply the results in the payment program in Contract Accounts Receivable and Payable.

You can obtain sanctioned party lists from data providers and import them to the relevant system via the XML interface. You can also create your own lists and use them for the check. To do this you have to create *internal sanctioned party lists* in SAP GTS.

You define which lists are used for the check in SAP GTS in Customizing. You create legal regulations in SAP GTS for this. Each legal regulation determines which sanctioned party lists are relevant for you.

The comparison with the sanctioned party lists takes place by means of the Sanctioned Party List Check (SPL) of the SAP component SAP GTS. This determines the relevant organizations or persons so that you can prevent payment transactions with them.

You can run the component SAP GTS as follows:

- In the same system as Contract Accounts Receivable and Payable, in the same or different clients
- In a separate system

If you run SAP GTS and Contract Accounts Receivable and Payable in the same system and client, you do not have to replicate the business partner data to SAP GTS, that is, the data does not have to be retained in duplicate.

If you run SAP GTS and Contract Accounts Receivable and Payable in different clients or systems, the business partner data is replicated to SAP GTS via an ALE scenario. You also have to configure the ALE standard scenario for master data distribution and check it periodically. The first time you use SAP GTS you have to carry out a legacy data transfer. This means that you have to transmit all business partners to
SAP GTS and check them there. You also communicate new business partners or changes to business partners via this scenario. For more information, see SAP note 831743.

When you activate the functions of SAP GTS, you define check-relevant role categories where you have to add the role category MKK. In the Business Data Toolset (BDT), you have to add the corresponding tab page in the role category MKK and thus make it visible in the transactions of the SAP Business Partner. For more information, see SAP note 831743.

The business partners created in SAP GTS receive the status Not Checked. The comparison with the sanctioned party lists takes place via a comparison of the addresses. Depending on the result of the check, a business partner receives the status Locked or Released.

SAP customers and vendors that you always access, for example, from Financial Accounting (FI), are always transferred to SAP GTS and created there separately as an SAP business partner with a GTS role. SAP GTS saves some additional data for each business partner with this role.

Contract Accounts Receivable and Payable supports the following checks:
- Comparison of business partner master data, including account holder, with sanctioned party lists
- Evaluation of the results of the check in the payment program
- Check in the payment program as to whether the country of the payee or payer is subject to an embargo
- Check of the note to payee by SAP GTS in the payment program

For both incoming and outgoing payments, the payment program determines whether a business partner is included in a sanctioned party list and therefore whether payment is to be prevented.

Each business partner can have one or more sets of bank details. Each of these sets of bank details can have an account holder. This account holder is also compared with the sanctioned party lists and, if necessary, the payment program prevents payment transactions.

The banks (in particular, all correspondence banks in the USA) check the text of the note to payee in the payment media and react accordingly depending on the result of the check (for example, by locking a payment). The text in the text field can also be compared with the sanctioned party lists. To do this, use the sample module FKK_BLACKLIST_0655 to define an own function module and define it for event 0655 in Customizing.

In order to enable the payment program to have swift access to current check data, you should run the report #Get Locked Partners and Countries# (determines the locked data from SAP GTS) at periodic intervals (see menu: Periodic Processing -> Data Transfer).

From the menu of Contract Accounts Receivable and Payable, you can access the transaction for transferring data of critical business partners and embargo countries under Periodic Processing -> Transfer Data -> Sanctioned Party Lists.

You access the component SAP GTS from the menu using the transaction /SAPSLL/MENU_LEGAL_R3.
40.7.7 Cash desk

Use

With Release 6.00, the layout of the cash desk has been revised and new functions have been added. With immediate effect, you can now process payments with several payment categories in the cash desk. This means that a customer can make a payment with a combination of cash, check payment(s), payment card(s), and postal orders.

The initial screen is divided into three parts:

- **Header data**
  The header area contains the static data of a payment, such as the payment date and the company code. You can display or hide this screen area using a pushbutton.

- **Simple selection / G/L account posting**
  The middle area contains two tab pages: one for entering selection criteria for the payment and one for entering the data for general ledger account postings. In both cases the cash desk supports multiple entries.

- **Details of payment category**
  In the area for payment categories, there is a separate tab page for each payment category supported: **Cash, Check, Payment Card, Postal Order**. With the exception of cash payments, multiple entries are possible. The system displays the payment categories and amounts entered in a totals table.

You can create individual documents in the general ledger (FI-GL) and payments on account by setting the corresponding indicator.

Payment lots are supported as before.

Effects on Customizing


**Short account assignment**

Up until now, you have defined the short account assignments for the cash desk and cash journal in a separate Customizing table. From Release 6.00, the cash desk uses the standard table. In the Implementation Guide for Contract Accounts Receivable and Payable choose: Business Transactions <Object> -> <Object> Payments <Object> -> <Object> Incoming/Outgoing Payment Processing <Object> -> Define Short Account Assignments for Transfer Postings.
Document types

You maintain the document type of a payment category in posting area 0161 per company code and payment category. Since four payment categories are supported: cash payment, check payment, payment card, and postal order, this means that you can define a maximum of four document types per company code. In the Implementation Guide for Contract Accounts Receivable and Payable choose: Business Transactions -> Payments -> Incoming/Outgoing Payment Processing -> Cash Desk/Cash Journal -> Define Document Type for Payment Category.

40.7.8 Cash journal

Use

Name of currency unit in currency sheet

In the activity Cash Journal: Define Currency Units of Currency Sheet in the Implementation Guide for Contract Accounts Receivable and Payable under Business Transactions -> Payments -> Processing Incoming/Outgoing Payments -> Cash Desk/Cash Journal, you can now maintain the name for the currency units of the currency sheet in more than one language for cash desk closing. A separate text table has been added to the table, and this enables you to maintain the names for each language.

Cash desk clearing account

The cash desk clearing account is hidden in the cash journal dialog. If the system can automatically determine a unique cash desk clearing account, no cash desk clearing account is displayed. If the system cannot determine a unique cash desk clearing account, you can specify one.

Posting deposits

The dialog for posting deposits has been revised. The screen is divided into two areas. You can hide the header data. The fields that you always need to post a deposit are permanently visible.

Posting differences

The dialog for posting differences has been revised. The screen is divided into two areas, as for posting deposits. You can also hide the header data. The area that is permanently visible shows the balance for each payment category, provided you can post difference for all payment categories. If a difference occurs in one or more balances, you can select and activate these and enter the respective actual balance. For each activated item, the system posts one document for differences.

Posting withdrawals

The dialog for posting withdrawals has been revised. The screen is divided into two areas, as for posting deposits. You can hide the header data. The area that is permanently visible shows the actual balance per payment category. You can select and activate the balances for withdrawal. You can also post a partial withdrawal for the cash balance. Regardless of the setting for the cash journal, the balances per payment card are displayed and offered for withdrawal. If you select and activate a cash balance and enter a partial withdrawal amount, you can only post the remaining amount as a new deposit. This does not change the cash desk balance, but the performance for determining the current cash desk balance improves considerably.
SAP recommends that you post the remaining amount of the cash withdrawal as a new deposit (for example, change that stays in the cash desk permanently) at regular intervals, or, for example, before or after closing at the end of the day. For each activated item, the system posts one withdrawal document and, if necessary, a deposit.

**Reversal of special posting documents**

The *Reversal of Special Posting Documents* function has been enhanced. You can now reverse a deposit or difference as well as a withdrawal, provided the deposit or difference has not been partially or completely withdrawn.

**Transfer of items**

The dialog for transferring items has been adjusted to the new layout.

**Event 6120**

The interface of the function module FKK_SAMPLE_6120 has been revised. If you replace standard functions in the cash journal with your own applications, you have to call these in event 6120. The return of a transaction code or report name is no longer necessary. In addition, you no longer have to default a date for selecting items for a withdrawal or difference posting. The system automatically determines all relevant items for posting a withdrawal or difference.

**Event 6140**

The interface of the function module FKK_SAMPLE_6140 has been revised. The transfer parameter 
*TX_DFKKCJT* has been included as an optional table. The table contains the special posting documents (deposit, difference, withdrawal, and cash discount) that were changed by the respective action, for example, by the posting of a withdrawal in the database table *DFKKCJT*.

**Create lot**

The function *Create Lot* under *Cash Desk* in the menu has been removed from the scope of functions of the cash journal. The cash journal now creates lots automatically. You can influence the assignment of the lot ID at event 6170.

**Effects on Customizing**

**Name for currency units in currency sheet**

A language-specific name field has been added to the table for currency units of the currency sheet for cash desk closing. The names maintained to date are no longer displayed. You have to maintain the name again; however, this maintenance can be language-specific.

**Cash desk clearing account**

40.7.9 Conversion of Swiss Bank Statement to MultiCash (New)

Use

You can use report RFKKCHINC00 to convert into MultiCash format feedback files from your bank or PostFinance that contain information about the following types of payments you requested:

- Inpayment slips with reference number (ISR)
- Outpayment orders (OSR)
- Electronic payment orders (EPO)
  This is a return file in XML format from PostFinance that contains errors from the processing of the EPO file.

You can also specify further processing of the converted file with the FI-CA MultiCash report, RFKKKA00.

40.7.10 Closing operations

Use

Postings for Year-End Closing

For year-end closing, you can now post posting documents for closing and opening the balance sheet accounts for Contract Accounts Receivable and Payable (FI-CA) in accordance with legal requirements.

In the SAP menu, choose Periodic Processing -> Closing Operations -> Postings for Year-End Closing.

Document Type for Reclassifications

To post reclassifications in the transaction Post Reclassification (FPRECL), you can define a default value for the document type in Customizing.

Adjustment of Posting Material after Change to Percentages of Ownership

In accordance with German reporting requirements, receivables and payables from associated, participating and external companies have to be displayed separately in the financial statements. You can use different reconciliation accounts for the associated companies, the non-associated companies, and the participating companies. The company ID (VBUND) is defined in the contract accounts of a business partner and is transferred to the documents during posting. The G/L accounts can be determined in a customer-specific account determination using the Company ID field.
The German Federal Financial Supervisory Authority (Bafin) also requires that revenues for bonuses, provisions, reserves, and losses are to be displayed separately according to associated and participating companies. If the assignment is to be controlled using accounts, you also have to use the **Company ID (VBUND)** field in the G/L account determination for revenue and expense accounts.

Reserves, that is payables where the usage is known but not the amount and due date, are also to be displayed separately.

If a company purchases another company, the company purchased becomes an associated or participating company. All open receivables and payables at the key date must be corrected in the correct receivables account and all revenue and expense postings in the period in question must be determined. The relevant period results from the purchase or sales contracts and can, for example, start with the purchase date or the start of the current fiscal year.

The following cases can all occur if the value in the **Company ID (VBUND)** field changes in the contract account of the business partner:

- The **Company ID** field contains no value and is now filled (for example, with 000001), or the **Company ID** field was filled and is now empty.
  A company was purchased or sold. A new entry must be created in company table T880 for the company purchased with specification 000001. You define or delete this entry in the **Company ID** field in the contract account or in the business partner when using the component SAP FS-RI. The system adjusts the **Company ID** automatically in the contract account. In the account determination, you can create a new entry with specification 000001 or * in the **Company ID** field and the corresponding account. You also have to write an entry, with specification of the valid from date and the relevant period for the revenue consolidation in the table of percentages of ownership DFKKVBUND. If there is no specification for the start of revenue consolidation the system sets the start to the general valid from date.

- The value in the **Company ID** field changes (for example, from 000001 to 000002).
  The status of a company changes, for example, from participating to associated. In this case you have to create a new company and assign it in the contract account or business partner. The system adjusts the **Contract Account** field automatically. In the account determination, you create a new entry with specification 000002 in the **Company ID** field and the corresponding account. You also have to make an entry in the history table (DFKKVBUND) for 000002 specifying the valid from date and the relevant period for the revenue consolidation.

You perform the postings required due to the change of percentages of ownership in closing preparations using the programs for foreign currency valuation (transaction FPW1), reclassifications, evaluation of open items for key date (transaction FPO1P) and the new report **Adjustment Postings for Percentages of Ownership** in the SAP menu under *Periodic Processing -> Closing Preparation*. You should run the report for the adjustment before the foreign currency valuation and the reclassification.

Using the new report **Adjustment Postings for Percentages of Ownership** you can adjust the **company ID (VBUND)** in the document in the individual company codes if the change of trading partner is retroactive. The report determines the adjustment requirement after the percentages of ownership of the trading partner has changed (for example, change of status of a customer from business partner to an associated company) separately for:

- Receivables and payables
- Revenues and expenses
- Reserve postings

The report displays the adjustments.

The report considers the reserves, receivables, and payables at the key date, revenues and expenses for the period.

The report can also post the adjustment requirement; if necessary by business partner and/or company code. For test purposes, you can select by segment and business area.

For receivables and payables, the adjustment is done using separate adjustment accounts that the report determines per reconciliation account using posting area 1350. The posting is performed for the key date in local currency. The inverse posting is for key date plus 1.

For revenues, expenses, and reserve postings, the adjustment is made to the general ledger accounts with no inverse posting.

In the industry component Insurance, you can determine the accounts at event V040 if you use customer-specific account determination for the revenue accounts.

You cannot reverse adjustment documents for receivables and payables and reserve postings. However, you can run the key date-related adjustments for different key dates.

You cannot adjust revenues that have already been adjusted. To make an adjustment, you first have to reverse the adjustment documents of the revenues.

**Example**

1. In reporting year 2004, receivables and payables with business partner XY were posted as follows.
   a) Receivable EUR 1000, posting date 01/01/2004 (date of document entry 01/01/2004)
   b) Receivable EUR 200, posting date 02/01/2004 (date of document entry 02/01/2004, cleared on 03/05/2004)
   c) Receivable EUR 300, posting date 08/01/2004 (date of document entry 08/01/2004)
   d) Receivable EUR 400, posting date 09/01/2004 (date of document entry 09/01/2004, cleared on 09/05/2004)

2. Notification on 10/15/2004 that company XY is an associated company from 07/01/2004.

3. Change to the value in the Company ID field in all contract accounts of the business partner from SPACE to, for example, 1000 (day of change 10/15/2004).

4. Change to the account determination for receivables/payables, new entry for company ID 1000 to other receivables/payables account (date of change 10/15/2004).

5. Entry in the table for the trading partner T880 and corresponding history table (DFKKVBUND).

6. Further receivables posting for EUR 500, posting date 11/01/2004 (date of entry of document 11/01/2004), where the new account is determined.

Closing preparations at year-end for creation of financial statements for 2004.

Subledger accounting reports that all payments have been assigned. In addition to the foreign currency valuation, reclassification, and sorting, the adjustment with regard to the changed value in the Company
ID field must be carried out for business partner XY; key date for receivables/payables is 12/31/2004, the period for revenues/expenses is 07/01/2004 - 12/31/2004.

The report finds seven documents among the receivables and payables. The first six documents (a to d) are different to the current account determination, two of them (a and c) are open. Both of these documents are displayed and you can adjust them by means of an adjustment posting.

With regard to the revenues, the report determines that in two documents (c and d), revenues were posted with an incorrect value in the Company ID field. An adjustment requirement of EUR 700 is displayed and transferred.

Reserves are not affected.

For reserve postings you can use report FPRES_CON (Summarization of Reserve Postings) to summarize the table of reserve postings (DFKKRES). Here you can also compare the amounts of the table with the original line items after a currency changeover, for example.

**Effects on Customizing**

**Document type for reclassifications**


**Maintenance of percentages of ownership**


For each business partner, you can enter from when which value is valid, and from when this entry is valid for the revenue consolidation.

**Document types for adjustment posting**

In the Implementation Guide for Contract Accounts Receivable and Payable under Closing Operations -> Adjustment Postings for Percentages of Ownership -> Define Document Types for Adjustment Postings, you maintain the document types to be used for adjustment postings. For each document category you have to define a document type for:

- Receivables and payables
- Revenues and expenses
- Reserve postings
40.7.11 Specification of receivables to collection agencies

Use

Follow-on activities after submission

With the new event 5057, you can now carry out follow-on activities after submission to collection agencies.

Information for collection agencies

With the mass run Information for Collection Agencies (menu: Periodic Processing -> For Contract Accounts -> Submission to Collection Agency), you can forward additional information to the collection agencies you use. You can always create the information files for receivables submitted for collection when you have carried out one of the following activities:
- Receivables submitted for collection have been reversed
- Receivables released by dunning and submitted for collection have been reversed in the dunning history
- Receivables submitted for collection have been written off

Effects on Customizing

Information for collection agencies

For the transaction Information for Collection Agencies (FPCI), you can assign default values for the selection of the information to be sent to a collection agency. To do this, in the Implementation Guide for Contract Accounts Receivable and Payable, choose Business Transactions -> Submission of Receivables to Collection Agencies -> Specifications for Sending Information to Collection Agencies.

The system no longer accesses posting area 1059 for this purpose.

40.7.12 Correspondence

Use

Balance confirmation

The scope of functions of the balance confirmation has been extended. From Release 6.00, you can decide which of the following confirmation procedures you want to use:
- Balance notification (negative request)
- Balance request (open method, request procedure)
- Balance confirmation (positive request)
The application form *FI_CA_BALANOTE_SAMPLE* has been enhanced accordingly, but is only available in German. As standard, you should use the application form *FI_CA_BALANOTE_SAMPLE_SF*.

You can restrict balances and receivables volume of the accounts for which balance confirmations are to be created using additional parameters.

You can postprocess the data saved in the system for the balance confirmations created later using transaction *FPBN* in the menu under *Periodic Processing -> For Contract Accounts -> Correspondence*. Here, for example, you can indicator whether a reply has been received, or determine the balance confirmations that have led to no response.

**Effects on Customizing**

In the activity *Process Change Document Display* in the Implementation Guide for Contract Accounts Receivable and Payable under *Basic Functions -> Correspondence*, you can define whether and in which order the individual attributes of a change document are displayed on the screen *Display Change Documents* and define the standard settings for the selection criteria.

**40.7.13 Data transfer**

**Use**

*File editors*

With Release 6.00, the file editors of the programs for the file transfer have been summarized in the transaction *FILEEDIT* (see menu *Periodic Processing -> Transfer Data -> Process Transfer File*). The transaction replaces all file editors previously provided. You can continue to use the existing editors, but SAP will no longer maintain them.

**40.7.14 Integration with SAP Dispute Management**

**Use**
The dunning proposal run now considers dunning reductions resulting from dispute cases from *Dispute Management*. See the release information for Dunning.

### 40.7.15 Dunning

**Use**

*Execution variant*

In the dunning proposal run, you can now use the dunning parameter Execution Variant.

Using execution variants, you can postprocess the dunning proposal on the basis of any company-specific criteria in event 300.

*Consideration of dunning reductions*

The dunning proposal run now considers dunning reductions, for example, that come from dispute cases. The dunning reductions are distributed to the dunning groups in the new event 0335. The amount is deducted from the dunning balance. SAP provides the sample function module *FKK_SAMPLE_0335_DISPUTE* for the deduction of amounts from dispute cases. You should define this as an installation-specific function module for event 0335.

*Revise dunning activities*

In the dunning activity run, you can revise the dunning activities from Customizing. In event 0351, you can add or delete dunning activities dependent on information from the dunning header (for example, business partner).

*Dun interest and charges documents immediately*

Using the new *Dun New Documents Immediately* indicator, you can configure the Customizing of the dunning levels such that documents posted by the dunning activity run (interest and charges) are immediately dunning with the dunning level of the dunning header. The dunning history for these documents is created by the dunning activity run.

*Field enhancements in the dunning history*

For the dunning history, you can include additional data fields in the display of the dunning headers and dunning items. For the enhanced display of the dunning headers, you define the customer include of structure *FKKMAKO_PLUS* with the additional fields required. You then make entries in your additional fields using a customer module for event 391. For the enhanced display of the dunning items, you define the customer include of the structure *FKKMAZE_STRUC* with the additional fields required. You then fill your additional fields using a customer module for event 392.

*Check dunning group against limit percentage rate*
You can now exclude dunning groups from dunning if the open percentage proportion of the items assigned is below the limit percentage rate. You define the limit percentage rate (field MINPZ_KK) per dunning level in the dunning procedure.

**New form class FI_CA_DUNNING_NEW**

The form class FI_CA_DUNNING has been replaced by the new form class FI_CA_DUNNING_NEW (example form: FI_CA_DUNNING_SAMPLE_SF). SAP is no longer developing the old form class FI_CA_DUNNING further; however, it will be retained in the system. This means that you can continue to use all of the application forms that you have previously created.

**Effects on Customizing**

**Execution variant**


**Dun interest and charges documents immediately**

The Dun New Documents Immediately indicator (V_TFK047B-NEWDC) in Customizing for dunning levels replaces the SETDL indicator in Customizing for additional receivables. See also SAP Note 745322.

**Check dunning group against limit percentage rate**


Select a dunning procedure and the related dunning level for which you want to maintain the limit percentage rate.

**40.7.16 Enhanced Message Management**

**Use**

**Solution processes**

Calls of BOR methods or workflow processes have been added as solution processes to the action box calls previously used on their own.

In contracts to the action box calls, the new solution processes are completely integrated in the
maintenance transaction for the clarification case category. This has the following advantages:

- The data flow can be defined within the transaction for maintaining the case category and is specific for exactly this case category.
- The input help (F4) is supported for both sender and receiver in the data flow definition.
- Different case categories with different container element names can call the same solution process.
- You can use both BOR objects and their attributes as input parameters for the solution processes.
- The complete data flow is now checked when it is defined.
- The performance is better because the solution processes are called directly.

**Effects on Customizing**

*Solution processes*

On the **Processes** tab page in the transaction for maintaining clarification case categories, you can now define both BOR methods and workflows as solution processes (see Implementation Guide for Contract Accounts Receivable and Payable, *Basic Functions -> Enhanced Message Management -> Specifications for Generating Clarification Cases -> Maintain Clarification Case Categories*).

However, you can only define the data flow for both of the new solution process categories. You can therefore continue to use existing action box calls. However, SAP recommends that you create BOR methods or workflows for new solution processes.

**40.7.17 New Events**

*Use*

*New Events*

- 0064
- 0073
- 0081
- 0208
- 0262
- 0296
- 0335
- 0336
- 0351
- 0375
- 0376
- 0391
- 0392
- 0606
- 0607
- 0608
- 0609
- 0616
- 0617
- 0618
- 0655
- 0803
- 0804
- 0870
- 1085
- 1086
- 1087
- 1129
- 1132
- 1219
- 1220
- 1255
- 1256
- 1784
- 1802
- 1844
- 1845
- 1850
- 1851
- 2418
- 2419
- Changed Eventes

- At event 0505, you can carry out further checks on the archivability of documents in addition to the standard checks provided by SAP.
From Release 6.00, during document archiving, the system also archives the entries of table \textit{DFKKKO\_WF} (workflows for checks and approvals). These entries are also transferred to function module FKK\_SAMPLE\_0505 that is processed for event 0505, and can thus also be subjected to customer-specific checks.

**Effects on Customizing**


**40.7.18 Foreign Currency Valuation**

**Use**

\textit{Update of General Ledger Account Transaction Figures}

Up to and including Release 4.72, certain general ledger accounts used in Contract Accounts Receivable and Payable (FI-CA) had to have the attribute \textit{Balances in Local Currency}. The following were affected:

- Receivables accounts and other reconciliation accounts
- Down payment accounts and accounts for tax clearing for down payments
- Exchange rate difference accounts

This meant that it was not possible to determine the portions of individual currencies from the transaction figures of the accounts alone.

This restriction has been removed with Release 6.00. You can change over the accounts in current operations. For transactions posted before the changeover, the transaction figures do not change; they are only recorded in local currency. For receivables, down payments, and tax clearing of down payments, clearing postings are also updated only in local currency provided the open item was posted before the changeover.

From a currency point of view, the account balances are deemed to be correct after the changeover if the following conditions are fulfilled:

- Profit and loss accounts: The changeover took place before postings in the current fiscal year.
- Receivables accounts (down payments, tax clearing): All items posted before the changeover have since been cleared.

**Restrictions**
When you post tax-relevant down payments, the down payment account and the tax clearing account must have the same settings, that is, *Balances in Local Currency* must be active or not active in both accounts.

If there is a reversal, return, or clearing reset for a clearing posting in a third currency, that is, if part of the item(s) to be cleared was/were posted in a different currency to the clearing currency, you cannot reverse this reset posting again.

**Tools for the Interim Phase**

After the changeover of the receivables accounts, their transaction figures are not correct as long as there are still open items in foreign currency that were posted before the changeover. As part of year-end closing, additional postings are therefore necessary to display currencies correctly using the receivables adjustment accounts.

With the open item list for the key date, you can determine the values that would have been recorded in the receivables account if all postings had been updated correctly with regard to currencies. Run the evaluation in a variant where the following parameters are selected:

- Update Currency instead of Transaction Currency
- Simulate Update Currency

You post the difference between the result of the open item evaluation and the balance of the receivable account in a currency to be considered using an adjustment account.

**Example**

Local currency EUR, foreign currency being considered USD.

The receivables account has a balance of 400,000 USD, with a current value in local currency of 320,000 EUR. According to the open item list, the correct value would be 480,000 USD with a value of 380,000 EUR.

The receivables adjustment account is managed in the correct currency. You also need an interim account for which balances are only managed in local currency. The following adjustment postings are necessary:

- Receivables adjustment to interim account 80,000 USD (60,000 EUR).
- Interim account to receivables adjustment 60,000 USD (60,000 EUR).

For the first posting, you have to specify the foreign currency amount and local currency amount explicitly.

**Enhancements in Reporting**

In the evaluations of open items for the key date, you can display totals in transaction currency or in update currency. For clearing in alternative currency, this leads to different results. In simulation mode, the results are displayed as if currency-justified update had been active in the receivables account from the very beginning.

Lists output by reports for reconciling the general ledger enable you to also display the new fields *PSWSL* (Update Currency) and *PSWBT* (Update Amount).

**Deferred Inverse Posting for Foreign Currency Valuation**
You can configure the foreign currency valuation in different ways:

- With a financial statement view
- With several financial statement views (since 4.72)
- With several financial statement views and deferred inverse posting (with 6.00)

If you do not need the automatic inverse posting for key date + 1 in transaction FPW1, you can configure the system with the last setting mentioned such that the inverse postings are not created until one of the following events:

- Clearing
- Reversal
- Clearing reset
- Next valuation run (FPW1)

In the first three cases, you have to run the new transaction FPW3 in regular intervals. This ensures that the document manipulations lead to the corresponding inverse postings.

To select correctly for the periods, you also need a valuation plan variant (Customizing) that contains the key dates when a revaluation of foreign currency documents is necessary.

You can find the transactions specified in the menu under Periodic Processing -> Closing Preparation.

Effects on Customizing

Deferred Inverse Posting for Foreign Currency Valuation

You have to first make the basic settings in the Implementation Guide for Contract Accounts Receivable and Payable under Closing Preparations -> Foreign Currency Valuation. If you select the setting Valuation Based on Several Financial Statement Views with Deferred Inverse Posting, you first have to create a valuation plan variant.

40.7.19 Integration with Funds Management

Use

Activating Funds Management

With Release 6.00, you activate Funds Management by activating the FICA_FM switch (FI-CA Core, Funds Management). The FM table fields are then activated automatically by the structures
SI_FKKFMOP and SI_FKKFMOPK. These structures replace the customer includes CI_FKKFMOP and CI_FKKFMOPK.

Note that even if you already use FI-CA integrated with Funds Management, when you upgrade to Release 6.00, the switch FICA_FM (FI-CA Core, Funds Management) is activated. This causes activation errors during the upgrade, since the FM table fields are inserted again and are therefore duplicated. You have to delete the duplicates from the customer includes CI_FKKFMOP and CI_FKKFMOPK after the upgrade. Proceed as described in SAP Note 834815.

Effects on Customizing

Activating Funds Management

You carry out further steps for activating Funds Management in the IMG for Contract Accounts Receivable and Payable under Integration -> Funds Management (PSM-FM).

40.7.20 IDoc Interfaces for Contract Accounts Receivable and Payable

Use

Document Transfer with General Ledger Items

You can now use a new, separate interface to transfer documents with general ledger items. Using this new interface, the data is transferred from the XI message to the corresponding IDoc segments. If you add new fields to the XI message, you have to define event 2425, where the XI message is converted to IDocs.

The following IDoc basic types have been created for the new interface:
- FKK_EBS_DOC_TREE for posting documents whose tax items and general ledger items are to be uniquely assigned to a business partner item (hierarchical structure)
- FKK_EBS_DOC for posting documents for which assignment of tax items and general ledger items is not necessary (flat structure)

The function module FKK_EBS_DOC_INPUT processes the new basic types. You can use it to transfer and post the following objects:
- Invoices
- Credit memos
- Write-off documents
- Down payment requests

In addition to the new IDoc basic types, you can also use the following new IDoc segments:
- The new segment for the document header \textit{E1FKK\_EBS\_DOC\_HEADER} contains (among other things) the object relationship between credit memos and invoices or dispute cases, the external payment for reference number and the external document type. The specification of an external payment form reference number means that the business partner items are assigned to a payment form. The external document type specifies which document is to be transferred and assigns an origin key and the document type to the document.

- The business partner item is specified by means of the segment \textit{E1FKK\_EBS\_DOC\_BPITEM}. In event 2419, the item data is transferred in the internal structures. This means that you can extend the transfer in the customer-defined function module. In event 2424 you can make the enhancements to the account determination for the business partner items.

- Segment \textit{E1FKK\_EBS\_DOC\_GLITEM} transfers the revenue items. In event 2421, the corresponding date is transferred from the IDoc and then, in event 2418, the relevant account assignments are added to complete the data. In addition to this segment, you can add the optional segments \textit{E1FKK\_EBS\_DOC\_COPAITEM} and \textit{E1FKK\_EBS\_DOC\_DEFREVITEM} to a general ledger item.
  - Segment \textit{E1FKK\_EBS\_DOC\_COPAITEM} transfers the external characteristics and characteristic values. However, an internal characteristic transfer is not possible, as in the interface without revenue items. You can make a customer-defined enhancement at event 2423.
  - For deferred revenue postings, use segment \textit{E1FKK\_EBS\_DOC\_DEFREVITEM}.

- The new segment \textit{E1FKK\_EBS\_DOC\_TAXITEM} is used to create the tax item. You can extend the transfer using event 2422.

- You use the optional segment \textit{E1FKK\_EBS\_DOC\_WRITEOFFITEM} to transfer write-off documents and to write off a general ledger item that has already been posted. Business partner items, deferred revenue postings, and payment form items are not transferred.

- You have to use the segment \textit{E1FKK\_EBS\_DOC\_PAYFORMITEM} if you want to add business partner items that have already been posted to a payment form.

Note for Event 1100

The new interface does not call event 1100. The account assignment for \textit{Funds Management} is therefore not derived. However, you can transfer the account assignment data by defining customer-defined segments for the business partner and general ledger items. However, SAP recommends that you use the standard interface.

**Effects on Customizing**

You make the settings for the interpretation of the external tax ID, the general ledger account determination of the revenue items, and the posting transactions of the business partner items in the Implementation Guide for Contract Accounts Receivable and Payable (FI-CA) under \textit{Data Transfer -> Communication with External Billing Systems -> Transfer of Invoice Documents} in the following activities:
- Translation of External Tax ID with Internal Handling
Here you have to assign the external tax ID to an internal tax ID and you can also assign a condition type to the internal tax ID.

- Translation of External Tax ID with External Handling
From Release 6.00 you can also assign external tax handling. The tax item transferred is not treated as a tax item in FI-CA; instead, it is forwarded to the general ledger as a revenue item. Here you have to assign the external tax ID to an internal tax ID. You also have to assign a tax item category for the tax ID.

- Define Specifications for the Translation of the External General Ledger Account Determination
In this activity you define how the item IDs for a general ledger item of an external billing system required for the posting of an FI-CA document are to be translated in the internal parameters.

- Define Specifications for Translation of External Document Type
In this activity you assign a document type and an internal object type to the external document type. The object type assigns the corresponding origin key to the processing of the document transfer with revenue items.

- Translation of Item ID into Posting Data
- Translation of Item ID into Posting Transactions

40.7.21 Changed Customizing Activities in Contract Accounts Receivable and Payable

Use

Basic Functions
In the Requests section, the activity Define Specifications for Document Creation and the corresponding structure node Document Creation are no longer required and have therefore been deleted.

Business Transactions
- Payments
You now define short account assignments for transfers that you previously defined in the section Processing of Incoming/Outgoing Payments -> Cash Desk/Cash Journal under Processing Incoming/Outgoing Payments (VC_TFK020).
- Dunning Notices
The activity Define Dunning Grouping Categories has been renamed Define Dunning Groupings.

Integration
- The activity Activate Funds Management Table Fields for Contract Accounts Receivable and Payable in the section Funds Management (PSM-FM) is no longer required and has been deleted.
- The activity **Define Grid for Due/Overdue items** in the section **Business Information Warehouse** has been renamed to **Define Grid for Grouping Items**.

### 40.7.22 New Customizing Activities in Contract Accounts Receivable and Payable

**Use**

**Basic Functions**

- Postings and Documents
  Under **Document -> Maintain Document Account Assignments**, you can make all settings for the **Segment**.
  Under **Define Account Assignments for Automatic Postings -> Automatic G/L Account Determination**, you can define the accounts for other tax postings.
  Under **Preparation of Processing Screens**, you can define the line layout for mass changes in account maintenance.
  Under **Document -> Official Document Numbers**, you can make the specifications for official document numbers in Italy.
  Under **Archiving**, you can define the life for sample documents and activate the archive information structure for the sample document archive.

- Requests
  You can define request categories.

- Account Balance Display
  Here you can define the business partners for whom you want to create snapshots.

- Special Features of Tax Processing
  In the **Archiving** section, you can define the life for payments subject to stamp tax, activate the archive information structure for the archive for payments subject to stamp tax, define the life for tax information for public-owned commercial operations, and activate the archive information structure for the archive for tax information for public-owned commercial operations.

- Print Workbench
  In the Print Workbench you can use two BAdIs: **BAdI: Override and Default Print Parameters**; **BAdI: Set Status of Spool Output Requests**.

- **Correspondence**
  You can edit the change document display.

- **Check Management**
  Here you can define the number range intervals for outgoing checks.
- **Enhanced Message Management**
  For the evaluations in transaction EMMA, in the section Specifications for Logging, you can maintain internal number range intervals for jobs and, in the section Specifications for Generating Clarification Cases, you can maintain number range intervals for clarification cases.

**Business Transactions**

- **Payments**
  In the section Processing of Incoming/Outgoing Payments, you can parameterize the search engine.
  In the same section, under Cash Desk/Cash Journal, for the cash journal you can define document types for the payment category and cash desk clearing accounts.
  In the section Creation of Incoming/Outgoing Payments, you can define screen variants for payment specifications and number ranges for payment specifications.
  In the section Archiving, you can define lives for the transaction data in the cash journal, activate the archive information structure for transaction data in the cash journal, define the life for payment specifications, activate the archive information structure for the payment specification archive, define the life for debit memo notifications, and activate the archive information structure for debit memo notifications.

- **Dunning Notices**
  Here you can define the run variants for the dunning proposal run.

- **Write-Offs**
  You can activate the write-off in an external system.

- **Submit Receivables to Collection Agencies**
  For archiving, you can define the life for collection items here and activate the archive information structure for the archive for submitted collection items.

**Integration**

- In the sections Transfer of Billing Documents, Invoicing Reversal and Program Enhancements, you can make all settings that you need for Invoicing in FI-CA.

- In the section Financial Supply Chain Management, under Dispute Management, you can define the life for the item list in cases for archiving and activate the archive information structure for the archive for the item list in cases.
  In the section Customer Relationship Management, you can define the determination of the clerk responsible for a replication from Customer Relationship Management.
  Under Biller Direct, you can define user profiles.

- In the section Funds Management (PSM-FM), you can change the message control.

**Closing Operations**

- For the activities required in closing operations, in the section Foreign Currency Valuation, you can make basic settings and define valuation plan variants.

- In the section Adjustment Postings for Percentages of Ownership, you make the settings that you need for postings arising from the change of percentages of ownership in companies.

**Data Transfer**

Here you can define an ID for external systems and maintain the caller ID for external interfaces.
- In the subsection Communication with External Billing Systems, under Transfer of Invoice Documents, you can define specifications for the translation of the external document type, define the translation of the external item ID of the business partner item for the transfer with and without revenue items, define the translation of the external tax ID with internal handling or external handling, and define specifications for the translation of the external G/L account determination.

- In the subsection Outbound Interface, you can make all settings for the new outbound interface.

Program Enhancements

- In the section Prepared Enhancements, you can make the relevant settings for including the broker field in the business partner item.

40.7.23 Information System

Use

New and Changed Functions and Parameters in Open Item Reporting

- The key date-related open item list (FPO1) now contains the parameters Update Currency instead of Transaction Currency and No Totals in Transaction Currency. You can use them to control the evaluation of the amounts in update currency.
  The parameter Totals at Level 1:2 controls the totals levels of the report (including segment). The parameters for the grouping levels have been replaced by the new parameter Grouping at Level 1:2.
  You can now export the overall totals (parameter Export Totals) and evaluate them in the transaction Extended Evaluation of Report Totals (FPO6 in the menu under Periodic Processing -> Evaluation of Extracted Data).
  You can also output the items additionally in a dataset in mass activity Open Item List for Key Date (Parallel) (FPO1P).
  The logical file name was changed as follows:

  - FI-CA-OPEN-ITEMS for Key Date-Related Open Item List (FPO1)
  - FI-CA-OPEN-ITEMS-MASS OP List for Key Date (Parallel) (FPO1P)

- Item List FPO4
  You can now group items in the item list. The report can display more than one item in accordance with the rules defined in the transaction Define Preselections (FPSELP).
  At event 9563, you can subject the items to additional authorization checks.
  For the export to a data set, the same applies as for programs FPO1 and FPO1P.

- Open Item Reporting New Evaluations
  With the item list FPO4, you can now alternatively evaluation also cleared items (all item posted in
one period) if you set the indicator Only Open Items/All Items.
For simple evaluations of the items saved in a dataset, you can use the transaction Analysis of Open Items from File (FPO7 in the menu under Periodic Processing -> Evaluation of Extracted Data). Transaction FPO7F in the menu under Periodic Processing -> Evaluation of Extracted Data delivers the output in the form of the foreign trade report Z5a if the dataset contains only items from foreign customers.

- Preparation of Evaluation
  In the selection of contract accounts, previously you could only consider active locks for the current date. You can now select by the period of the validity data for locks.
  You can create the layouts of the open items between systems using an XML file.
  There are two new layout objects that you can use for the field selection and rule definition for item summarization in transaction Item List FPO4.

- Document journal
  In addition to the standard evaluation (productive documents), with effect from Release 6.00, you can also evaluate documents from data extracts in the document journal.
  You can now export the summarized partner items and general ledger items and evaluate them in the transaction Extended Evaluation of Report Totals (FPO6 in the menu under Periodic Processing -> Evaluation of Extracted Data).

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40.7.24 Deferral and Installment Plan

Use

Input Help for Installment Plan Number: Only Active Installment Plans as Default

On the initial screen of the transactions Change Installment Plan and Display Installment Plan, you can use an input help for the Installment Plan Number field. If you select via the installment plan history, as standard the system displays only active installment plans. If you also want to list deactivated installment plans, you have to delete the default value ‘ ’ in the Deactivation Reason field.

Alternative Payer for Installment Plan Items

Previously, it was not possible to define an alternative payer to the business partner for installment plan items. You can now use the new input field Partner for Payment in the transaction Change Installment Plan to do this. There you can maintain an alternative payer for each installment.

Payment Card ID in Installment Plan Items

Previously, you could only define a bank details ID for installment plan items but not a payment card ID. This is now possible using the field Card ID in the transaction Change Installment Plan.

Triggering of Events for BOR Object Type INSTMNTPLN No Longer in Fi-CA Events
The events *Created*, *Changed*, and *Deactivated* are defined for the BOR object type `INSTMNTPLN`. Previously they were triggered in events 3040, 3041, and 3045 in Contract Accounts Receivable and Payable (FI-CA). To ensure that the events are actually triggered, this function has been transferred to the standard.

### 40.7.25 Interfaces in Contract Accounts Receivable and Payable

**Use**

*Outbound Interface: Postings to Business Partner*

With effect from Release 6.00, you can use *Outbound Interface: Postings to Business Partner*. Using a new mass activity (transaction `FPOITR`), you can transfer open and cleared items and payments of a business partner to an external system for invoicing, for example, using an XI interface.

**Effects on Customizing**

*Outbound Interface: Postings to Business Partner*

You define the external systems in the Implementation Guide for Contract Accounts Receivable and Payable (FI-CA) under *Data Transfer -> Outbound Interface*. For each company code, in the activity *Maintain Settings for Company code*, activate the transfer of open, reopened, or cleared items and payment information. For each external system, you have to make further settings for the outbound interface in the activity *Maintain Settings for Receiver System*.

### 40.7.26 Interest Calculation

**Use**

*Overview of Interest Calculation*

In the interest run and the interest run for cash security deposits, in the menu, under *Environment ->*
**Interest Calculation List**, you can call up an overview for the interest run.

When you select the entry, the system runs the report RFKKINT_MASS_LOG.

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### 40.7.27 Official Doc. Numbering and VAT Reporting for Italy (New)

**Use**

In Italy, a unique official document number (ODN) must be assigned and printed on all documents you send to customers, and it later serves as the basis for value-added tax (VAT) reporting. The system supports these requirements as follows:

- Automatic generation and assignment of ODN to relevant documents, based on your system configuration
- Monthly VAT report, RFKKITVATM - or, as required in special cases, the quarterly VAT reports - RFKKITVATQ (summary) and RFKKITVATD (detailed); for further information, including Customizing requirements, refer to the respective report documentation

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### 40.7.28 Business Locks

**Use**

*Locks According to Preselections*

From Release 6.00, you can use preselections that you have created with the transaction Define Preselections in the menu under *Periodic Processing -> Technical Preparations* to set and remove processing locks. You can process preselections for business partners and for contract accounts. If you process locks for business partners, locks are also processed for the contract accounts assigned to these business partners.

In the transaction *Locks According to Preselections* in the menu under *Periodic Processing -> For Contract Accounts*, you can display preselected data. You can set or remove locks synchronously from
the transaction or synchronously as a background job that is executed immediately. The result of the processing of the locks is displayed in a log.

40.7.29 Mass Activities

Use

Reactivate Deactivated Parameter Records

If you deactivate parameter records of a mass activity, you can reactivate them provided they have not been finally deleted under Administration of Mass Processing -> Delete Parameter Records. In the menu choose Mass Processing -> Display Parameter Records Again.

40.7.30 Master Data

Use

Business Partner

Role concept

With effect from Release 6.40, SAP Business Partner provides a new concept for business partner roles (see release information for SAP Business Partner). This changed concept also takes effect in Contract Accounts Receivable and Payable (FI-CA) in Release 6.00. Therefore, business partners must now exist in the business role MKK for role category MKK. You create business partners in this role in transaction FPP1. You change and display them in this role in the transactions FPP2 and FPP3. You can also process a business partner in transaction BP. With this transaction you can maintain all roles for a business partner.

If you use business partner roles on a time basis, note the following:

You must not restrict the business role MKK for role category MKK on a time basis. It must always have a validity from the current data to 12/31/9999. Restrictions on the validity of this role are not permitted.
Standard address XDFADR

The standard address of a business partner is no longer portrayed using the indicator XDFADR in table BUT020. This indicator is obsolete and you can no longer specify it on manual entry. With effect from Release 6.40, the standard address is portrayed with the address use XXDEFAULT. If you want to use addresses on a time basis, you can create different standard addresses for different periods. For each time, you can specify one address as standard address for the business partner.

Time Dependency of the SAP Business Partner

Planned changes to SAP Business Partner are no longer supported. This means that the report BUSPCDACT to be scheduled for application object BUPA is obsolete. For other master data objects, such as the FI-CA contract account (application object FICA), planned changes will still be used.

Planned changes will be supported by a new time dependency of SAP Business Partner. See the following release information:

- Time Dependency of Addresses (new)
- Time Dependency of Bank Details (new)
- Time Dependency of Central Data (New)

If you use the FI-CA shadow table, note that you have to schedule the report BUPTDTRANSMIT for application MKK regularly. This report recognizes whether there have been changes to master data due to moves and reflects these in the shadow table. If you do not schedule the report, the system may have to read data directly from the database tables of SAP Business Partner due to the data in the FI-CA shadow table not being up-to-date. This has a negative effect on the performance of the read process.

Up until now, report RFKKGPSH was used to create the shadow table initially. You can now create the shadow table using mass activity GPSHAD_NEW. If you have used planned changes for SAP Business Partner before a release change and the shadow table has already been filled, before you run a mass activity for the first time you have to run report RFKKGPSHUPDATE. This report invalidates the entries in the shadow table for business partners for whom there are unimplemented planned change documents. This prevents obsolete data being read from the shadow table.

To revalidate the invalidated entries in the shadow table, you have to run mass activity GPSHAD_UPDATE. This improves the performance of the read accesses to business partner data since, for invalidated entries in the shadow table, the system has to read data from diverse database tables of SAP Business Partner.

Change to Direct Input for Business Partner

Since, due to the introduction of time dependency of SAP Business Partner no planned changes for the business partner are supported any more, you can only call up the direct input for the business partner with the current date (VALDT = sy-datlo).

The function module FKK_BUPA_MAINTAIN_SINGLE has been changed over accordingly. This carries out a direct input for the business partner internally. Up until now, this module could be called with any validity date (I_VALDT). Then the changes to the business partner were carried out with planned change documents.

To make the changeover easier, SAP converted the values specified with this module accordingly. If the new fields for time dependency are filled in the transfer parameters for this module, the values are not converted. If errors occur during the conversion, the system indicates this with a termination message. If the conversion cannot take place, the system issues corresponding information.
Examples of such a conversion:

- Change to central data in the future: Creation of a new time slot for I_VALDT with validity to the end of the time slot given by I_VALDT. The time slots that are after this time slot are updated. Before the direct input is called, parameter I_VALDT is set to sy-datlo.

- Change to bank details in the future: New bank details are created. For the I_VALDT specified, there is a move from existing bank details (to be changed) to new bank details. Before the direct input is called, parameter I_VALDT is set to sy-datlo.

- Planning for payment cards cannot be converted since there is no time dependency for payment cards. The changes take place without a corresponding validity and therefore take effect immediately. Users of the module FKK_BUPA_MAINTAIN_SINGLE are informed about this in an information message. Before the direct input is called, parameter I_VALDT is set to sy-datlo.

Moving Addresses and Bank Details

Where the address or bank details are moved, the ID of the respective object in the contract accounts is not changed in the database. The description of the object displayed behind the ID in transactions CAA2 and CAA3 is, however, the description of the actual address or bank details used.

For bank details, in addition to the description, the ID of the bank details defined on the database is also displayed. Since, under certain circumstances, the ID displayed from the database is displayed with the description of the bank details for another ID, this is highlighted. In this case, behind the description, the system displays the ID of the bank details actually used. This indicates this special case and helps avoid incorrect interpretations of the display.

Example:

Incoming bank details 0001  Deutsche Bank/Heidelberg/DE/10020030/26126479 ( 0002 )

Deletion of Address/Bank Details/Payment Card

If you delete an address, bank details, or a payment card, the validity of the object concerned is not considered. The system displays an existing use in contract accounts or contracts in a warning message that you can ignore. This means that the system may contain contract accounts and contracts that refer to objects that no longer exist. SAP therefore recommends that you do not delete objects that are still used in contract accounts/contracts. You should only delete (ignoring the warning message) in exceptions.

Note also that even if the system shows no use for an object, the object can still be used in contract accounts/contracts.

Example: Move from BKVID 0001 to BKVID 0002 on 01/01/2020

In contract account VK1, BKVID 0001 is defined. From 01/01/2020 however, BKVID 0002 is to be used in the contract account. However, BKVID 0001 is still defined in the database. The bank details actually used are determined at runtime. SAP therefore recommends that you do not delete addresses and bank details when using the move function.

Recommended Fields

The option of using recommended fields has been introduced to the Business Data Toolset (BDT) with Release 7.00.

Previously, during processing in dialog, you could only switch to a different tab page if there was an entry in a field designed as a required entry field.

In SAP Business Partner, required entry fields are now recommended fields. This has the effect that
fields in the dialog defined as such only have to be filled when you save. Before you save, you can navigate as required between the individual tab pages.

To be able to use recommended fields for a BDT application object, you have to set the indicator Application Object Uses Recommended Fields (XRECOM) in table TBZ1. This is set for application object BUPA. This results in an additional screen attribute that you can/have to program to:

0 Normal field
1 Required entry field
2 Recommended field

For queries as to whether a field is a required entry field, the instruction IF SCREEN-REQUIRED = 1 is partly used. This query must now be IF SCREEN-REQUIRED <> 0. Therefore, if required, adjust your customer-defined field modification modules.

Other Notes
For information about time dependency and the new role concept, see SAP note 675530 (SAP BP: Adjustments Required for Release SAP_ABA 6.40).

Change Bank Data (Transaction FPP4)

Time Dependency of the SAP Business Partner
Planned changes to SAP Business Partner are no longer supported. However, planned changes are still used for the FI-CA contract account. This results in the following changes to the behavior in transaction FPP4.

Changes to the processing of payment cards/credit cards:
- Deletion in the future
  The behavior in the contract account does not change. In the partner, the card remains unchanged/can no longer be deleted.
- Creation in the future
  The behavior in the contract account does not change. In the partner, the credit card is created immediately and can therefore be used immediately.
- Change in the future
  This is generally not possible. The system automatically switches to the mode Create in the Future (see above).

Changes to the processing of bank details:
- Deletion in the future
  The behavior in the contract account does not change. In the partner, a change is made for the current date whereby the valid to date of the bank details is set to the date of the required deletion in the future (logical deletion).
- Creation in the future
  The behavior in the contract account does not change. In the partner the data is created immediately with a valid from date that corresponds to the required future date.
- Change in the future
  The behavior in the contract account does not change. In the partner the new move function applies:
  - Creation of a new bank ID with valid from date in the future
  - Change of old bank ID by entry of the move date and the new bank ID in the future

Set of Rules of Follow-On Actions:
When you call the set of rules for the follow-on actions, the data of the dunning notices and returns affected is already visible in the set of rules in a list.

Effects on Customizing

*Shadow Table for Business Partners*

40.7.31 Processing of Incoming and Outgoing Payments

Use

*Payment Lot: Posting Date of Clarification*
If the original posting date specified for clarification is no longer permitted, you have to use an alternative posting date. If only one company code is affected, or the same posting periods are open for all company codes affected, the next possible posting date is determined automatically. If you are posting cross-company code and different periods are open in the company codes, you may have to enter an alternative posting date manually. You can use the following function key to do this:

@1U@ Other Posting Date

*Payment lot: Clarification proposal based on earlier clarifications*
When you are clarifying payments, selections are proposed automatically derived from previous clarifications. All business partners/contract accounts/contracts are determined to which amounts were assigned for previous payments from the same bank account of the payer.

For certain bank accounts (for example, social welfare office account), the payments may affect a number of different accounts. This means that the selection proposed is very extensive and not easily manageable.

Therefore, if there are more than three results from previous clarifications, the system also checks the usage text to see whether the values determined for the business partner, contract account, or contract are specified there. The search tolerates certain errors in that it permits different ways of writing the same words (for example, with separators or blank spaces) and also accepts a maximum of one incorrect
character. If, among the previous clarification cases, there are some where the note to payee details correspond to the selection criteria as described above, only these entries are proposed.

**Payment Lot: Use of Short Account Assignments**

You can assign an authorization protection at short account assignment level for using short account assignments to post payment amounts to general ledger accounts. If an authorization group is assigned to the short account assignment in Customizing, the user needs the authorization for object F_KK_KUKON with the authorization group assigned.

You can also assign a tax code to a short account assignment (only if taxes are not dependent on a jurisdiction code in the country concerned). The amount of the posting is automatically reduced by the tax proportion and separate tax items are created.

**Payment lot: Correspondence for queries regarding clarification**

In clarification processing, you can use the new function Correspondence for Clarification. This means that you can, for example, submit queries to the house bank or other addressees. If you use the function, a business partner and an application form are proposed. Both values are defined in Customizing and you can overwrite them. The new correspondence type 0035 Query Regarding Incoming Payment Clarification is delivered.

**Payment lot: Enhancement to check event 0242**

Event 0242 does not enable you to check any additional selections specified (only the first selection specification is available in the payment lot item). Using the new event 0262, you can now check all selections together.

**Payment lot: Fast search for payments using the search engine TREX**

Payments from payment lots can be held in the main memory of the search engine for a fast search access. The system administrator is responsible for the relevant Customizing, the initial creation of the search index, and the regular transport of changed and added entries.

If Customizing is defined for the connection to the search engine, when you search for payments the additional indicator Use Search Engine appears.

**Credit card lot: Check card data**

Up until now, where a payment had not been reported to the card institute for a credit card lot, you always had to enter the validity period and the cardholder. You can now make settings in Customizing dependent on the card institute so that you no longer have to enter these details.

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**Effects on Customizing**

**Payment lot: Correspondence for queries regarding clarification**

You define default values for correspondence for queries regarding clarification cases as follows:
The number of the business partner to be proposed (business partner that represents the house bank or a contact person at the house bank) in the Implementation Guide for Contract Accounts Receivable and Payable under Business Transactions -> Payments -> Processing Incoming/Outgoing Payments -> Define Bank Clearing Accounts for Payment Lot. For each bank clearing account, you can enter the business partner number in the new field Correspondence Recipient. You also have to maintain the details House Bank and Account ID as these are used to determine your own account number at the house bank this may be specified on the letter.

The key of the application form to be proposed in the Implementation Guide for Contract Accounts Receivable and Payable under Basic Functions -> Correspondence -> Define Application Forms for Correspondence. Enter the required form under correspondence type 0035. The form FI_CA_BANK_CORR_SAMPLE_SF (Smart Form) is delivered as an example.

Payment lot: Fast search for payments using the search engine TREX

You first have to configure a TCP/IP connection to the TREX server. To do this, in the SAP Customizing Implementation Guide, choose: SAP NetWeaver -> SAP Web Application Server -> IDoc Interface/Application Link Enabling -> Communication -> Create RFC Connection.

You then make the system settings required using the administration transaction COM_SE_ADMIN.

Via Goto -> Customizing, choose System Settings to select a TCP/IP connection to the TREX server.

Under Business Objects and Indexes, check whether the business object CA_INCPAY has already been created. If not, add a corresponding entry. The class for this business object is CL_FKK_SEARCH_PLOT. When you are making the settings for this object, read the documentation for the individual fields - this gives you instructions about assigning useful values.

In the transaction you can also create and activate the index.

In the Implementation Guide for Contract Accounts Receivable and Payable, under Business Transactions -> Payments -> Processing of Incoming/Outgoing Payments - > Parameterize Search Engine, specify from which date of creation payment lot data is to be included in the search engine and whether, for the initial load, archived data should also be considered.

Using the report COM_SE_DISPATCHER, you can create the initial search data and transfer subsequent changes in the dataset. This report should be planned as a background job. To transfer the changes, SAP recommends that you schedule regular repetitions (for example, once or more each day) to ensure that the search data is always up-to-date.

Credit card lot: Check card data

To make the setting for a reduced check of credit card data, see the Implementation Guide for Contract Accounts Receivable and Payable:

Business Transactions -> Payments -> Creation of Incoming/Outgoing Payments -> Payment Cards -> Define Accounts for Payment Card Institute.

Payment lot: Fast search for payments using the search engine TREX

In the activity Parameterize Search Engine in the Implementation Guide for Contract Accounts Receivable and Payable under Business Transactions -> Payments -> Processing of Incoming/Outgoing Payments, enter the date from which the system is to use the search engine for the search.
40.7.32 Payment Transactions

Use

*Payment Specifications*

With the new transaction *FPAY1A*, you can group open items and at this level, define payment data such as payment method, bank data, and DME data. The payment program processes this data for payment (payment specification of category "Payment Program"). You can also only group items (for example, without specification of payment data such as payment method, bank data) and use the payment specification thus created as selection criteria for the processing of incoming payments (payment specification of category "Valid for Payment Lot"). You use transaction *FPAY1B* for this.

You can make the following specifications for a payment:

- Payer (business partner, contract account)
- Payment method, paying company code
- Bank details/card details of business partner
- Bank details of company (house bank ID, house bank account ID)
- DME data (recipient code, instruction key)
- Run date
- Text for payment
- Reference number for payment
- Customer-specific additional fields

The system saves this payment data at header level and the related items at item level in the new object *Payment Specification*. You can include items from different business partners and contract accounts in one payment specification. In the payment specification you must always specify the paying business partner and (if the specification is for the payment run) the paying contract account. You can use the function for incoming and outgoing payments and in principle, for all payment methods.

In the related line items, only the category of the payment specification (field *DFKKOP-PDTYP*) is set. The payment data entered (for example, payment method) is not entered in the line item.

If you define event *0606*, when you post the document you can define for each business partner item that a specification is required for the item. This means that the payment run does not pay this item until a payment specification has been created for it. Items of this category are *preselected* items. This function is not possible for repetition items.

When you create/change a payment specification for the payment run, you can select either all items or only preselected items. You define the default for each user in the user parameter *8PAY_XITMS* (A = all items, R = only preselected items).

If you define event *0616*, on the initial screen of the transactions for creating a payment specification (and in the dialog box for subsequent selection of additional items), you can define additional selection criteria. This means that from the list of selected items, you can display only certain items (filter function) by evaluation your selection entries in the module specified here.
Items for which there is a payment specification of category "Payment Run", are protected from clearing in other clearing processes (except for the payment run). Corresponding information appears in the status display of open item processing.

When you create a payment specification, the authorization checks that apply to the document change function apply (company code, business area, and authorization group of contract account). The new authorization object F_KKINDPAY is also checked. Dependent on the category of the payment specification and the activity, this checks whether the relevant authorization exists.

You can also create payment specifications without an item reference. The system creates a header record, but no item records.

When you create or change a payment specification, the workflow for check and approval in accordance with the dual control principle can be run. You decide whether the creation/change must be approved in the new event module 5514; the relevant business object is CA_INDPAY. In addition to the status field (open/to be approved/approved), the Complete attribute exists. This must be set if the payment run or payment lot is to use a payment specification. This attribute can control the start of the approval workflow. For example, event 5514 can be so defined that the workflow only starts if the Complete attribute is set. This means that different users can carry out different changes without having to have each individual change approved before the next clerk can process the payment specification further. You cannot change a payment specification with the status To Be Approved until it has been approved/rejected.

If you create a change that is subject to approval, the payment data is stored with the status To Be Approved. The payment run does not pay this payment specification; instead it creates a payment exception. The changes from the workflow process (approval or rejection) are documented accordingly in the status. The payment program pays only complete payment specifications that have the status Open, Approved, or (see below) Reopened after Reversal of Payment.

When you change a payment specification in the new transaction FPAY2, the system writes history records for the header data; it then displays these on a separate tab page in the display. The person actually doing the approving also sees which change needs to be approved. When you include new items or remove items, the new items or items deleted are also displayed on separate tab pages if the change is subject to approval. Each item contains information about when it was included in the payment specification.

If you change a payment specification and want to include items in the specification, you have to select the items to be included before you save. If you want to remove items from a payment specification, you have to deselect them before you save.

You can implement additional checks that have to be carried out when a payment specification is changed via event 0608. There you can return error messages that then appear in a separate dialog box.

You can visualize customer-specific additional fields that you have defined via a CI include in the header table DFKKIP_GRP in event 0609. Your own fields are then displayed on a separate tab page.

Since you can group items from different business partners, the use of payment specifications is not suitable for parallelization via business partner intervals in the payment run. Items that are read in interval 1 (contains the business partner) are skipped here. In interval 2 (contains the payer), the items read in interval 1 are read again, since all related items have to be determined here. This second reading of line items increases the runtime of the payment run, which means that the procedure should not generally be used as replacement for every document change (for example, entering payment method and bank data).

If the payment run makes the payment successfully, the system enters the number of the first clearing
document (or payment order) created and the payment run ID in the payment specification. The system displays this data on a separate tab page. From this tab page, you can navigate to the payment document, the payment order, or the display of bank data from the payment run, and from there, to the payment run display. The following new exceptions may occur in the payment run:

- 66 Payment specification is to be approved
- 68 Amount of the payment specification does not correspond to the item total
- 69 Payment specification is locked by online processing

Any payment locks or clearing locks in the paying contract account are considered during processing of a payment specification in the payment run. Locks on contract accounts of the line items assigned are not considered. Locks cannot exist on the line items assigned themselves, since locked items cannot be included in a payment specification for the payment run and no locks can be set for items in a payment specification.

The custom selections (selection, for example, by document number, posting date) are also not considered for the assigned items of a payment specification since a payment specification can only be paid completely or not at all (and not partially).

If you define event 0617, you can turn a payment specification that the payment run considers to be payable into a payment exception by returning a corresponding item indicator (and corresponding message). For example, in this event, you can determine the payment locks of the contract accounts/contracts involved and prevent payment if a contract account of an assigned item has a payment lock in the master record. To realize this, you can use module FKK_SAMPLE_0617_PAYMENT_LOCKSV or use it as a copy template for an own module.

The following logic applies for the interpretation of the payment data (header level):

- Payment method, paying company code, bank details, card details, and own details are treated as if they had been entered at item level and are included in the payment data (DPAYH) such that they appear in the payment list and on the payment media printout.

- Own bank details are evaluated independently of the indication of the payment method for controlling bank selection (in FQP4). However, you can override this using event 0650.

- The execution date is transferred to the payment data (DPAYH) and overrides the otherwise applicable standard logic. The standard logic determines the execution date from the due date of the items to be paid (for collection and several items with different due dates, the latest date; for outgoing payments, the earliest date). An execution date in the past is replaced by the current date. Since not all payment media formats support an execution date at the individual payment level sometimes such a date is only supported for the complete file it may be necessary to agree with the receiving bank to what extent a file with payments with different execution dates can be processed.

- The DME data is transferred to the payment data (DPAYH) and override any specifications from the module in event 0630.

- The text for the payment is not saved in the payment data (DPAYH) and is therefore not visible in the payment list. This text can be determined when the file is created by reading the data from the payment specification the key is in the payment data and can be noted in a suitable place on the payment medium.
- Partial payments are not possible with payment specifications. Event 0610 is therefore not processed in the payment program when you process payment specifications. Partial payment is also not possible if you use a payment specification as selection criterion in the payment lot (comparable with the use of payment advice notes). In contrast, overpayments are possible in the payment lot and lead, for example, to postings on account or to other items being cleared.

- Report RFKKIP01 provides an ALV list of all payment specifications. Double click in the list to display the details for a payment specification. In the payment data in the document display of an item that is part of a payment specification, there is a button that you can click on to access the details for this payment specification.

- Report RFKKIP03 provides an ALV list of all line items that are assigned to a payment specification. You can also double click in the list here to display the details of the payment specification.

- Report RFKKIP02 provides an ALV list of all line items that are preselected for a payment specification but have not yet been included in a payment specification.

- Currently, a line item cannot be included in several payment specifications of the category #Payment Lot# at the same time. This means that it is not (yet) possible, for example, to make specifications for one item in different currencies and, when the payment is received in a specific currency, to indicate the specification used and delete or archive the other specifications later.

Visualization in Other Transactions

- Document display
  The payment data shows that a line item has been included in a payment specification. Navigation to the payment specification is supported.

- Account balance display
  You can include the field PDTYP (Category of Payment Specification) in the line layout. You can also display the field IPAYD where an icon indicates whether an item is assigned to a payment specification or not.

Integration to Follow-On Processes

- Reversal of document
  If a document still contains items that are assigned to a payment specification, this assignment must be removed before the document can be reversed.

- Reversal of posted payment document
  The payment specification receives the status Reopened after Reversal. The cleared items are open again and still assigned to the payment specification; a new payment is not possible. Using report RFKKIP01, you can select all payment specifications with the status Reopened after Reversal and decide what to do with them. You cannot reverse a reversal of this kind.

- Reset of clearing of posted payment document
  The payment specification receives the status Clearing reset, the assignment of the items previously cleared to the payment specification is reset, and you cannot use the payment specification again.

- Return for posted payment document
  The payment specification receives the status Return. The cleared items are open again and still assigned to the payment specification; a new payment is not possible. Using report RFKKIP01, you
can select all payment specifications with the status *Return* and decide what to do with them. All
returns activities (setting locks, correspondence) refer to the paying contract account specified in the
header of the payment specification (and not to the contract accounts of the related items posted to).
Exception: Any charges arising are posted to the contract account with the highest item.

- **Reversal of payment order created**
The payment specification receives the status *Reopened after Reversal*. The cleared items are
open again and a new payment is possible.

**Limitations**

- **Cash discount and withholding tax**
  Items relevant for withholding tax must **not** be included in a payment specification and this is also
  not supported in event 0606. Items with cash discount also cannot be included in a payment specification.

- **Payment locks/clearing locks**
  Items with payment locks cannot be included in a payment specification for the payment run. The
  payment lock prevents the items being paid and from being included in a payment specification. No
  payment locks (in *FPE2, FPE2M*) can be set for items in a payment specification. In the case of a
  payment with payment specification, the payment locks of the items assigned are no longer analyzed.
  Items with clearing locks cannot be included in a payment specification for the payment run or the
  payment lot these items are locked against any form of clearing.
  The payment locks at master record level (contract account or contract) can be interpreted using
  event 0617, as described above.

- **Repetition items**
  You cannot define repetition items for a payment specification during posting (event 0606). If you
  assign them to a payment specification in the transactions *FPAY1A/FPAY1B/FPAY2*, they are
  released first.

- **Payment Agreements**

  Payment specifications have a higher priority than payment agreements (they refer only to amounts, not to
  other payment data). You can include items for which there are payment agreements in a payment
  specification. However, you cannot make payment agreements for items already assigned to a payment
  specification.

**Payment Agreements**

You can now create payment agreements via the total balance of a business partner irrespective of the
transaction currency of the individual open items. On the initial screen of the transaction *Payment
Amounts Agreed (FPVZ)*, set the *Select All Open Items* indicator. During the automatic distribution
of the agreement amount, in this case, for all items where the transaction currency is the same as the
agreement currency, the system sets the agreement amount to the original amount and distributes the
remaining amount proportionately to the other open items.

You cannot define a payment agreement for items for which a payment specification or debit memo
notification exists.

Double click the document number to navigate to the document display.

You can create payment agreements for the total balance of several business partners. In the list of open
items, analog to account maintenance you can make further selections.
Effects on Customizing


You define the default user-specific in the user parameter 8IP.


40.7.33 Postings and Documents

Use

Postings and Documents: Changing the Document Date

In event 0062, you can now replace the document date in the document as well as the posting date.

Postings and Documents: Broker as New Field in Business Partner Item

The business partner item contains a new field: Broker. This enhancement of the business partner item has been realized as a #prepared enhancement#. This means that the field is not initially visible in the system delivered; you have to activate the enhancement explicitly in your installation.

The broker represents a business partner that takes over the processing of certain processes (for example, payment or dunning) for the end customer.

Functions of the Broker Field

The field is:
- An additional specification for document entry, document change, and document display
- Selection criterion for the account balance
- Selection criterion for the account maintenance
- Selection criterion for other clearing processing
- Selection criterion in payment lot

Activation of the Broker Field

You activate the Broker field in Customizing using a report that creates the required fields and database indexes. In test mode, the report shows which enhancements would be made in an update run.

If the Broker field is active and you have posted documents with brokers, the system administrator must update the database statistics for table DFKKOP. This is the only way to make sure that the new indexes are also used.
Deactivation of the *Broker* Field

You can deactivate the field again but only manually. To do this, you have to remove the field *BROKR* from the CI includes to which it was added. You then have to convert the database tables. This conversion can have a long runtime if a lot of data records are affected. SAP therefore recommends that you weigh-up the activation of the field and then adhere to this decision.

*Clearing Processing: Distribution of Difference Amounts*

If, during clearing processing, part of the amount to be distributed is explicitly assigned to the open items and there is a difference, this difference can be assigned automatically via the clearing control. You can use the new *Distribute Difference* function key to do this.

The difference is distributed to

- The selected inactive items if at least one inactive item is selected
- All inactive items if no inactive item is selected

*Clearing Processing: Visibility of Payment Agreements*

Using payment agreements, you can define the payment amount that the customer is to pay if the payment is in a currency other than that of the receivable.

If you post a clearing in the alternative currency in dialog, the system does not translate the receivables amount to the payment currency at the current exchange rate; instead it shows the agreed amount.

Previously, you could not see from the open item whether the amount displayed in payment currency was based on an agreement or a current translation. For this purpose, there is a new indicator, *FKKCLIT-XZVEX* (meaning *Payment Agreement Exists*) in the item. To display the field, you have to include it in a display variant for open item processing.

*Account Maintenance: Posting with Short Account Assignment*

You can assign an authorization protection at short account assignment level for using short account assignments to transfer difference amounts to general ledger accounts. If an authorization group is assigned to the short account assignment in Customizing, the user needs the authorization for object *F_KK_KUKON* with the authorization group assigned.

*Enhanced Account Maintenance*

From Release 6.00, in account maintenance you can perform document changes as well as carry out clearing. In the transaction you can switch between both processing views. For the document changes, you can define the line variants with different modifiable fields in Customizing. You can make document changes directly in the item. Alternatively, you can make a change for several selected items simultaneously.

In addition to document changes, you can also split line items. You can combine clearing, splitting, and changing with few restrictions.

Modifiable fields

You define the modifiable fields via the structure *FKKOP_CHG*. In detail these are:

- Specifications for due date (due date for cash discount, cash discount percentage rate, due date for net payment, deferral date)
- Specifications for payment (payment method, payment grouping, details of alternative payee)
Specifications for dunning (dunning procedure, exclusion indicator)

- Interest key
- Text
- Locks (up to two each of payment locks, dunning locks, interest locks)

**Limitations**

The restrictions that apply to the transactions *Mass Change of Documents* also apply to the field changes. You should also consider the following points:

- Locks of one category (payment lock, dunning lock, interest lock) can only be changed for an item if there are no more than two locks. A maximum of two locks of the same category can be set at any one time.
  
  **Example**
  
  If the payment locks A, B, and C are set simultaneously in an item, the locks for this item cannot be processed.

- Where document items are displayed summarized (several items are displayed cumulated in one item), you can only change fields that have a unique value that is displayed in the item displayed.
  
  **Example**
  
  If three items with a different text (field OPTXT) are displayed summarized, ‘*’ is displayed in the text line and no change is possible. If you switch to the individual display, you can change the text in any of the three items.

**Changing several items simultaneously**

To change several items simultaneously, select the items required and choose the field or group of fields that is to be changed. Place the cursor in the required column of the display and then choose the function *Mass Change*. Alternatively, you can double-click in the required column.

Once you have selected the items to be changes, the lower part of the screen changes. You can now enter the new values for the selected field or group there. Once you have entered all data required, you have to transfer the new values to all selected items using the function *Execute Change*.

Fields that belong together logically are always offered together as a group to be changed in the case of mass changes.

**Example**

If you select the *Cash Discount Deadline* field, in the lower part of the screen the fields *Due Date for Cash Discount*, *Cash Discount Percentage Rate*, and *Due Date for Net Payment* are offered.

**Special features for the due date details**

In a mass change you can either enter a new value for the *Due Date for Net Payment* for all items selected, or for the combination of the three fields *Cash Discount Deadline*, *Cash Discount Percentage Rate*, *Due Date for Net Payment*. You cannot change only the cash discount percentage rate or the due date for cash discount and leave all other due date details in the items selected with the previous values.

**Split in several subitems**

You can split line items into several subitems. However, this function is not available for items displayed summarized. You must first cancel the summarization.
To split an item, place the cursor on the item required and then choose the function *Split Item*. The system inserts a new item beneath the item to be split. The amount of the new subitem is initially zero. Enter the required partial amount. The system automatically reduces the amount of the original item accordingly.

**Special features when splitting items**

You can no longer split an item that has been selected for full clearing. If you split an item for which partial clearing is planned, the system automatically proposes the partial amount that is not to be cleared in the subitem. You can reduce this amount manually, but not increase it. In this case too, you can no longer split an item for which clearing has been planned.

For new subitems created, you can make the same changes as for original items. You can clear the new subitems either partially or in full.

**Resetting changes and splits**

You can reset all of the changes you have made to an item provided you have not saved the data yet. Select the required item(s) and then choose the function *Reset Change*.

To reset a split, place the cursor on the subitem and choose the function *Reset Split*. If several split items have been created for an item, and you want to reset all of them, place the cursor on the original item and then choose *Reset Split*.

**Special features for filtering and sorting the lock fields**

For each lock category (dunning, payment, interest), two lock reasons can be displayed in the list together with their validity data. When you filter and sort by lock reason or validity date, the system always considers both columns.

**Example**

Place the cursor on the first dunning lock reason and choose the function *Filter*. In the dialog box that appears, enter the value *A*. This means that you are searching for items with the dunning lock *A*. The system displays all items where the first or second dunning lock has the value *A* filtered.

**Example**

Place the cursor on the first dunning lock reason and choose the function *Sort in Descending Order*. If there are items with the dunning lock reasons *A*, *B*, and *C*, the items with dunning lock *C* appear at the beginning. It is irrelevant whether *C* is entered as the first or second dunning lock. The items with dunning locks *B* and *A* follow.

**Influence of changes on clearing processing**

The changes that you make do not have an effect on the current clearing processing.

**Example**

A clearing amount and a cash discount amount are assigned to an item. In the *Change view*, you enter the new due dates and a new cash discount percentage rate. The cash discount amount assigned under the view *Clearing* is unchanged; it is neither activated nor deactivated. If you want to change the cash discount amount assigned for this clearing, you have to make the change in the *Clearing view*.

Changes you make become effective when you save them. In the following clearing processing, the changed values are decisive:

**Settings**
In the account maintenance, you can use the View field in the Processing Status area in the footer of the screen to switch between clearing and change mode. In the Change view, from the line variants previously defined in Customizing, you choose which fields the system offers as modifiable fields in the items.

If you want to hold a setting as default value, choose the function Change Display. On the next screen, select the required variant for the modifiable fields and choose the function Hold.

Save all actions

All actions (clearing, split, change) are saved in one transaction. You can then exit the transaction.

Reversal and returns of archived documents

For archived documents, you can post reversals and returns if you select a suitable reversal method or suitable type of returns processing.

Returns for archived documents

If the payment document has already been archived, you can refer to the document in the returns lot. The corresponding check routines also consider archived documents. However, in this case, you cannot select Reset Payment as Type of Posting, since then the clearing resets required for archived documents are not permitted. You can select New Receivables, Derived from Payment or New Receivables, If Payment Cannot Be Reset. With this method, the paid receivables are replaced by new receivables items in the returns document.

Reversal for archived documents

 Archived documents usually have business partner items that are cleared (for example, paid invoices), or have cleared business partner items themselves (for example, payments). An exception is documents that contain exclusively general ledger items.

Since no data may be changed for an archived documents, it is not possible to reset clearing as part of a reversal. Therefore, for archived documents, you have to select another form of reversal. When you reverse archived documents, the system therefore creates new business partner items in the reversal document.

Example: Reversal of archived invoice

In the reversal document, the system creates a business partner item with a reversed +/- sign for each business partner item of the invoice document. In this case, the reversal document is a credit memo posting for the full invoice amount.

Example: Reversal of archived payment

In the reversal document, for the paid receivable items, the system creates business partners in the same amount. This is identical to the procedure for returns if new receivables are created derived from the payment.

Changes in the reversal transaction

You can now make two further specifications on the initial screen of the reversal transaction. Firstly, by means of a checkbox, you can specify whether the system is also to search for the document to be reversed in the archive. Secondly, you can assign one of the following reversal methods:

- Clear business partner items
- Create offsetting postings to business partner items
- Create offsetting postings if document is in archive

For both of these new fields, you can trigger a default value via posting area 1050.

Restrictions

A reversal with creation of offsetting postings is not possible if a confirmation workflow is still active for the document to be reversed.

When you reverse an archived document, you cannot trigger a workflow to confirm the reversal. In this case, event 5502 that is used to trigger a workflow is not processed.

For further restrictions, see the documentation to the Reversal Method field on the initial screen of the reversal transaction.

Dependencies

If a document that still contains open business partner items is reversed such that offsetting postings are created, account maintenance takes place automatically after the reversal; the open items of the document to be reversed are cleared against the open items of the reversal document.

New event for reversal

Using event 0073, you can add customer-specific data to the business partner items created in the reversal document. The event is processed if business partner items are created with inverse +/- sign (for example, reversal of invoice).

Effects on Customizing

**Postings and Documents: Broker as New Field in Business Partner Item**


**Enhanced Account Maintenance**

For enhanced account maintenance, you have to define variants for the line layout. A variant defines which fields appear as modifiable in an item. You define the variants in the Implementation Guide for Contract Accounts Receivable and Payable under Basic Functions -> Postings and Documents -> Document -> Preparation of Processing Screens -> Define Line Layout for Mass Processing in Account Maintenance.

**Reversal and returns of archived documents**

You have to specify main and subtransactions for the creation of offsetting items for business partner items of the document to be reversed. For each main and subtransaction, you have to specify a combination of main and subtransaction that is to be used for the offsetting item in the reversal document in the case of a reversal. You make the specification in the table of subtransactions. You define these in the Implementation Guide for Contract Accounts Receivable and Payable under Basic Functions -> Postings and Documents -> Document -> Maintain Document Account Assignments -> Maintain
Subtransactions.

40.7.34 Print Workbench
Use
PDF-based forms
The Print Workbench supports the use of PDF-based forms for creating and issuing outgoing standardized correspondence. SAP therefore provides the new form category PDF-based form for application forms.
You can use the new XML-based raw data interface (XFP) for PDF-based forms to prepare raw data outside of the SAP system.
For information about PDF-based forms, see SAP Help Portal under Documentation -> SAP NetWeaver -> SAP NetWeaver Release-Language -> SAP NetWeaver -> Application Platform (SAP Web Application Server) -> Business Services -> PDF-Based Forms. See also the release information for BAdIs in the Print Workbench.

Effects on Customizing
Existing implementations in SAPscript and Smart Forms are not affected by this change.

40.7.35 New Programs/Reports
Use
Summarization of Reserve Postings
With the new report RFKK_DFKKRES_CONDENSE, (transaction FPRES_CON) you can summarize table DFKKRES and, if required (for example, after a currency changeover) compare the amounts with table DFKKOPK.
40.7.36 Requests

Use

*User-Definable Request Categories*

Until now the request categories *Request* or *Acceptance Request* and *Payment Request* for the component *Government Agency* were predefined by the system. You can now define request categories in Customizing as you wish. You can select which sign (plus/minus) and which document type the generated documents should have for each request category and whether a document should be generated for each request item.

**Effects on Customizing**

*User-Definable Request Categories*


Note that the settings you defined until now, under *Basic Functions -> Requests -> Generate Documents -> Define Specifications for Document Generation* must now be carried out when you define request categories.

The delivery Customizing contains entries for the request categories defined by the system until now.

40.7.37 Returns

Use

*Returns for Paid Collective Bills*

If a return is posted with *Type of Posting New Receivables, Derived from Payment*, up to Release 4.72, on payment of a collective bill, the new receivable was posted to the collective bill account.

With Release 6.0, the receivables are posted to the individual accounts; simultaneously, the system creates a new collective bill document for the total amount of the receivables. This means that the receivables are visible in both the individual account and the collective bill account.

*Itemization of Clarification Worklist from Returns Lots*

With report *RFKKRLCL*, you can display clarification items in a returns lot for a key date.
Reversal of Returns

On the reversal of a return, the corresponding return is reopened in the returns lot. A returns lot that has already been closed is reopened provided that the return can be reversed and Funds Management is not activated.

40.7.38 Segment for Segment Reporting

Use

New Account Assignment Term: Segment

With effect from Release 6.0, Contract Accounts Receivable and Payable provides the new account assignment term Segment. You make the basic settings necessary for using the segment in the Implementation Guide for Financial Accounting. These are then taken into account by Contract Accounts Receivable and Payable. The following special features also apply for Contract Accounts Receivable and Payable:

Segment in All Line Items

In Contract Accounts Receivable and payable, business partner items receive a segment as well as general ledger items. There is no distribution logic in the background that, during the update of reconciliation accounts (receivables, payables, down payments) in the general ledger, splits the posting item of a business partner into segments using the offsetting items.

Special Segments for Tax and Money Accounts

For all balance sheet accounts that are not managed on an open item basis, the problem arises that there are no fixed dependencies between postings on the debit side and the credit side. Therefore, where different segments are used, a balance sheet account may no longer show a balance, but, in the ledgers, there are positive and negative balances for different segments that then provide no useful information.

Money (bank, cash desk) and tax accounts are particularly affected by this problem.

In FI-CA, neutral segments are used for these account categories. You assign these segments in Customizing, but they have not direct reference to the segment or segments affected by the underlying business transaction.

Identification of Money and Tax Accounts

A general ledger item is deemed to be a tax item if a tax base amount is specified in the line item.

A general ledger item is deemed to be a money item if either the value date is set or the attribute Financial Transaction -Relevant is set in the master record of the general ledger account.

Account Assignment or Derivation of Segment
For documents that are **not a follow-on posting** to previous documents (typical example: New receivable), the account assignment **Segment** can be specified on manual entry and for transfer using one of the available interfaces. This specification has priority over the derivation options described below.

Often, only the business partner items are entered or forwarded by means of posting interfaces. In this case, the document is completed in the system (for example, revenue and tax items are added). If a segment is already specified in the business partner items entered/transferred, this is transferred to the revenue items assigned.

If no segment is assigned, one is derived as follows:

- The system derives the segment from other details of the business partner item(s). The segment can be determined using the following values:
  - Company code
  - Business area
  - Division
  - Receivables account
  - Account determination ID
  - Main transaction
  - Subtransaction
  
  The segment determined is then inherited to the offsetting items (revenue items).

- The system derives the segment from the revenue items and inherits it to the business partner items. In this case, the derivation is using the profit center. You must therefore assign a profit center in the revenue item and assign a segment to this profit center in the master record. Derivation via Customizing without a profit center is only possible if the segment can be determined from the combination company code/general ledger account.

- The derivation of the segment is installation-specific using the new event 0081. Here you can use individual logic to determine a segment for each item for which the creator of the document has not assigned a segment. However, segments are ignored in bank items and tax items and are subsequently replaced by the valued define in Customizing.

You can mix the procedure; that is, you can assign some of the segments explicitly, add some using event 0081, and determine the rest using the Customizing settings.

For line items that arise as **follow-on posting** to other line items (for example, clearing, reversal, returns, interest calculation, write-off), if possible, the segment of the triggering item is inherited to the follow-on items. This means that the segment of an open item is not only inherited to the clearing posting on clearing, it is also inherited to cash discount, payment surcharges, exchange rate differences, and interest on arrears that arise from the clearing of this item.

If no unique inheritance is possible, for dunning or returns charges, if possible, the segment that has the highest proportion of relevant items (for example, dunned items, paid items for returns) is used.

**Statistical Items**

Certain statistical items, such as statistical charges receivables, down payment receivables, and budget billing receivables also require the specification of a segment. This segment is inherited to the non-statistical follow-on postings on later payment. If the segment is not directly specified externally on
creation of the item, it is derived from the Customizing for the business partner item.

**Payments on Account**

For payments on account, the segment cannot be derived from offsetting postings. As far as payments on account take place in combination with the clearing of other items, the segment that has the highest amount proportion in the clearing can be selected. However, since there can also be payments on account that take place without other open items being cleared, this rule cannot be generally applied. You should therefore define a segment account assignment in Customizing for at least the combination of main transaction/subtransaction used for a payment on account.

**Completeness after Introduction of Segments**

Once you have activated segment account assignment, the system checks that all line items have a valid segment account assignment, except for follow-on postings.

If there are follow-on postings (for example, for clearing or clearing reset), all line items created must also have a valid segment account assignment provided the items that are cleared or where clearing is being reset all have a valid segment account assignment. However, if these items appear under older postings without a segment, certain follow-on postings (for example, the clearing itself, cash discount, exchange rate differences) are permitted without a segment.

**Introduction in Productive Operations**

If the segment account assignment is introduced at a time where posted documents already exist, the segment is not added to the documents already posted. Therefore, for a transition phase, many accounts will still contain transaction figures for the segment SPACE. This generally applies as long as follow-on postings arise for documents posted without a segment (all forms of clearing and clearing reset).

The amount proportion of balances with an initial segment value will reduce over time. You have to decide individually whether, if there are sufficient small remaining amounts and sufficiently few remaining documents without a segment, the amounts are to be split for segmental reporting (for example, proportionately to the remaining split by segment) or whether transfers should be made to eliminate the effect of these documents with no segment account assignment.

**Effects on Customizing**

**Segment**

In addition to the general settings for the segment that you make in the SAP Customizing Implementation Guide under Enterprise Structure -> Definition -> Financial Accounting -> Define Segment, you also have to make settings in the Implementation Guide for Contract Accounts Receivable and Payable:

- Define the segments for money accounts and tax accounts (and optionally, for additionally selected accounts) under Basic Functions -> Postings and Documents -> Document -> Maintain Document Account Assignments -> Segments -> Define Segments for General Ledger Items.

- If you want to derive the segments from the data for the business partner items, define your settings under Basic Functions -> Postings and Documents -> Document -> Maintain Document Account Assignments -> Segments -> Segment for Business Partner Items.
40.7.39 Write-Offs

Use

*Write-off in external systems*

With Release 6.00, you can also perform write-offs in external systems. You can activate the function in posting area 0124.

If you perform write-offs in an external system, line items that are posted in Contract Accounts Receivable and Payable via this external system are forwarded to the relevant external system via the *Outbound Interface for Business Partner Items*. The SAP system (Contract Accounts Receivable and Payable) denotes the items to be written off with the clearing restriction $T$. This means that these items cannot be cleared by other business transactions. The tax calculation takes place in the external system. The data determined for the calculation of the write-off document is posted in the SAP system (FI-CA) again via the *Bill Line Item Interface*. The preselected items that are to be written off are cleared and the clearing restriction $T$ is deleted.

**Effects on Customizing**


40.7.40 Doubtful Entries and Individual Value Adjustment

Use

*Reductions to value adjustments*

Reductions to value adjustments can occur due to:

- Manual reset of a value adjustment
- Reduction of the percentage rate of the value adjustment
- Clearing of the item whose value has been adjusted by payment
- Clearing of the item whose value has been adjusted by write-off
- Other clearing of the item whose value has been adjusted

Previously you could post reductions to individual value adjustments to a separate revenue account.
instead of making the reduction in the expense account. You can also configure a separate aperiodic revenue account that you use if the reset is performed in an alternative follow-on year to the original value adjustment.

With Release 6.00, you can post resets of value adjustment to separate revenue accounts provided the reset was triggered by a payment or write-off of the item whose value was adjusted. You can configure separate accounts for payments and write-offs.

If you want to use this function, you have to first make the following settings in Customizing:

1. In the activity Define Tax Calculation Types for Write-Offs and Individual Value Adjustments, choose the tax calculation type 06 or 07.

2. In the activity Maintain Alternative Accounts for Resetting Value Adjustments, configure separate alternative accounts for resetting value adjustments by means of payment or write-off.

Effects on Customizing


40.7.41 Connection from SAP Utilities to SAP Credit Management (New)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 the integration of SAP Utilities with SAP Credit Management has been improved. The processes for commitment updates and the replication of the FI-CA creditworthiness in SAP Credit Management are now integrated and have been enhanced to meet specific Utilities requirements.

With this release, it is possible to transfer the commitment to SAP Credit Management when creating the order in SD. When transferring a document from SD to FI-CA, the commitment is then removed from SD and the existing commitment in FI-CA is structured. This means that the current commitment for the business partner is always known in SAP Credit Management, and can be used for credit decisions.

The Check Credit method is available for the ISUPARTNER BOR object type. You can use this method to perform a credit check during a move-in. This credit check uses the Utilities extrapolation to determine an order value, and uses this order value to call SAP Credit Management, in order to perform a creditworthiness check. The result of the credit worthiness check is returned, and is available in SAP Utilities. You can use the method for customer-specific workflows.

It is possible, to only consider certain customer groups in SAP Credit Management. Only the commitments from the customer groups to be considered are transferred to SAP Credit Management. FI-CA exit 4503 is available if you want to exclude certain customer groups.

The commitment update from FI-CA can now exclude future budget billing requests from the
commitment. It is also possible to determine an average budget billing amount per business partner and credit segment in SAP Utilities, and to transfer this to SAP Credit Management. This means that the average budget billing amount is available in SAP Credit Management as a decision criterion for credit decisions in formulas. The average budget billing amount is calculated as follows:

1. For each budget billing plan, the number of days between the start of the budget billing period and the end of the budget billing period is calculated.
2. The total amount of the budget billing plan is divided by the number of days. This gives you the average budget billing amount per day and budget billing plan.
3. The average budget billing amount per day for each business partner is received by using the amounts determined for each budget billing plan in step 2 to compose a total.

You can influence the type of calculation for the budget billing amount per day for each business partner in FI-CA exit 4500. If you want to use this function, you must define the FI-CA exit 4600, in order to transfer the determined key figure for the budget billing amount per day for each business partner to SAP Credit Management.

Effects on Customizing

FI-CA events 4500 - 4504, and 4600 (you can find further information on the FI-CA exits, see the FQEVENTS transaction).

40.7.42 Segment Determination for SAP Utilities (New)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can use the new segment account assignment attribute to post documents.

Segments in IS-U documents are posted using the following determination logic. If one of the following steps is successful, then the system uses the segment that was found, and does not run the subsequent steps:

1. The segment is determined by the posting transaction itself. For example, this is the case when entering segments manually in the post manual document transaction (FPE1).
2. The segment from the contract belonging to the business partner item is inherited in the business partner item, and is passed on from there to the general ledger item created.
3. The segment is determined from the profit center of the general ledger account, and is passed on to the business partner item and general ledger item.
4. The segment is determined from posting area 0301. In this posting area, you can determine a segment independently from company code, account category, general ledger account, business
partner item, main transaction, and subtransaction. The segment is then passed on from the business partner item to the general ledger item.

5. The segment is determined from posting area 0300. In this posting area, you can determine a segment independently from company code, account category, and the general ledger account for the general ledger item. The segment is passed on from the general ledger item to the business partner item.

Only steps 1, 2 and 4 are relevant for statistical document items.

Effects on Customizing

To use this function, you must activate the Contract Accounting Funds Management business function (ISU_FM).

Execute the following IMG activities in the implementation guide for contract accounts receivable and payable:

- Define Segments for Business Partner Items
- Define Segments for General Ledger Items

See also

For further information on segments, see the release information Segment Determination for FI-CA Documents.

40.8 IS-U-CS Customer Service

40.8.1 Enhancements to master data generator (enhanced)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 the following new functions are available for the master generator:

- You can now enter values in the Move-In/Out Dunning Procedure (MAHVUMZ) field in the CONTRACT_ACCOUNT master data template category. This function is available in the releases before SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 by implementing note 794688.

- It is now possible to suppress the proration of the same operand time slices at operand level. To do this, you must enter the value "X" in the AUTO_MERGE attribute in the nodes for the installation facts. The newly generated time slices from an installation fact are then merged with the existing values. This function is available in the releases before SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 by implementing note 794689.

- It is now possible to enter a value of "Zero" in the following installation facts:
- Fact INST_FACTS_AMOUNT  Attribute BETRAG
- Fact INST_FACTS_DEMAND  Attributes LMENGE & LMENGE2
- Fact INST_FACTS_FACTOR  Attribute FACTOR
- Fact INST_FACTS_INTEGER  Attribute INTEGER4
- Fact INST_FACTS_QUANT  Attributes MENGE & MENGE2

This function is available in the releases before SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 by implementing note 787361.

- You can now also enter values in the Contract Number from Legacy System (VREFER) and Move-In Date from Legacy System (EINZDAT_ATT) fields in the CONTRACT master data template category in the master data generator. This function is available in releases before SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 by implementing note 745519.

- New subnode MOVE_IN_SEC
  You can now use the MOVE_IN_SEC subnode in the move-in to create cash security deposits for an installation or installations. You must observe the following conditions when processing this subnode:

  - In the ANLAGE attribute, you must specify the key of the installation, for which you want to create a cash security deposit for the contract.

  - Either provide the Reason for Requesting Security Deposit (SEC_REASON), Requested Amount for Security Deposit (SEC_TOT_AMOUNT), and Transaction Currency (WAERS) attributes, or maintain only the Reason for Exemption from Security (SECWAIVERAS) attribute.

You can create multiple installations and contracts for each premise (apart from those with the CRMNEWCONTRACT) master data template category). For this reason you can activate the MOVE_IN_SEC subnode several times. Activate the node for each installation, for which you want to create a cash security deposit. Use the attributes as follows:

In the ANLAGE attribute, you must specify the key of the installation, for which you want to create a cash security for the contract. Because the MOVE_IN_SEC subnode is not a subnode of INSTALLATION, you cannot use the Key Reference evaluation category. Instead of this, you use the same parameter for the INSTALLATION node and the MOVE_IN_SEC node for the ANLAGE attribute.

You can use the SEC_TOT_AMOUNT attribute to define the requested amount for the security deposit.

If you maintain the Requested Amount for Security Deposit (SEC_TOT_AMOUNT) attribute, you must specify the appropriate currency in the WAERS attribute.

If you have maintained the Requested Amount for Security Deposit (SEC_TOT_AMOUNT) and Transaction Currency (WAERS) attributes, you must specify a reason for requesting the security deposit in the SEC_REASON attribute. You can only create a security deposit if you have maintained all three attributes.
If the business partner is exempt from paying a security deposit, you must enter the reason for this exemption in the Reason for Exemption from Security (SECWAIVEREAS) attribute.

It makes sense to maintain both the SEC_TOT_AMOUNT and WAERS attributes, and then to enter a value in the SECWAIVEREAS attribute.

If the system cannot create the cash security deposit, then the master data generator reacts as follows:

- Processing is continued. The move-in document is created.
- A warning is written in the log.
- The SecurityDepositsFailed business transaction event is triggered for the MOVEINDOC BOR object.

See also

For more information, see the IS-U Master Data Templates document on the SAP Service Marketplace (http://service.sap.com/utilities -> Product Information -> mySAP CRM for Utilities -> Cookbooks&Guidelines).

40.8.2 IS-U-CS-BT Process Execution

40.8.2.1 IS-U-CS-BT-IO Move-In/Out

40.8.2.1.1 Accelerated move-in / move-out / move-in/out entry (enhanced)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 the following new fields are available within the accelerated move-in / move-out / move-in/out entry (transaction EC70):

- Requested amount and request reason for security deposit, as well as the reason for exemption from a security deposit: These fields allow you to create cash security deposits within the accelerated move-in / move-out / move-in/out entry.
- Address-independent telephone number
- Mobile telephone number
- Address-independent E-mail address
- Contract account name,
- Reason for move-out without move-in.

In addition, the new menu path Extras -> Error Monitor is now available. This takes you directly to the IS-U Error Monitor (transaction ECRMREPL).

**Effects on Customizing**

If you wish to use the new fields, you must adjust your parking variants and master data templates accordingly in Customizing. See also the release info Enhancements to Master Data Generator for SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 2005.

**40.8.2.1.2 Functions in Move-In/Out Processing (Enhanced)**

**Use**

As of SAP IS-U release 4.61 it is possible, if necessary, to cancel billing and invoicing documents for certain functions within move-in/out processing (such as move-in or move-out reversal).

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can use a new parameter in Customizing in the special processing variants to define a reversal reason for billing documents. The reversal reason is then used in this case.

**40.8.2.2 IS-U-CS-BT-DR Installation Disconnection/Reconnection**

**40.8.2.2.1 Removal of disconnected devices in supply disconnection (new)**

**Use**

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can remove devices and utility installations that have been disconnected by the IS-U supply disconnection process. Once they have been removed, the devices and utility installations are indicated as removed in the disconnection document.
You can continue the existing disconnection action within the utility disconnection.
When installing a device in a disconnected utility installation, it is possible to include the device in an existing disconnection.

Effects on Customizing
You must use Customizing to activate the function. To do this you set the **Device Removal Despite Disconnection** indicator in the Define Processing Variants for Disconnection Documents Customizing activity.

**40.9 IS-U-WA** Waste Management

**40.9.1 IS-U-WA-MD** Master Data

**40.9.1.1 Interface for connection of general conditions for waste legislation (new)**

**Use**

As of **SAP ECC Industry Extension Utilities, Waste & Recycling 6.0** you can create your own version for the disposal of hazardous waste. You can use a **Business Add-In (BAdI)** to include your own objects and your own logic for processing waste approvals, waste documents and dock receipts, as well as for managing the business partner as waste generator, transporter, and disposer in the waste disposal process. This allows you to tailor the processes exactly to the corresponding legal requirements and their individual corporate needs.

**Effects on Existing Data**

If you do not want to make your own definitions, then your dataset is not affected.

If you use the integration into **EH&S Waste Management**, and are now implementing your own version, then the data relevant for the hazardous waste must be migrated in the dataset.

The existing integration in **EH&S Waste Management** is provided as standard, and does not influence the existing functions.
40.9.1.2 Usage of container groups in SD contracts (changed)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can also allocate sales documents from the SD container groups module from IS-U. Previously it was only possible, in container location management, to assign SD contracts to individual containers. You now have the option of creating a material in the background for each container group. This option allows you to link the SD contract to a container group in container location management.

Effects on Data Transfer

If you already use container groups in your system, and want to create a material for these container groups, you can use the ISU_WA_CREATE_MATNR_FOR_BEHGRP report. For further information, see the documentation on the report.

Effects on Customizing

If you want to create material corresponding to a container group, you must make the following settings in Customizing:

- Allocate container category to group type
- Allocate material type to (container) group type

40.9.1.3 Automatic adjustment reversal (new)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can have the system automatically execute an adjustment reversal for defined processes in SAP Waste and Recycling, which change data relevant for billing.

You can use this new function if you have already executed a billing for an object, for which you want to change billing-relevant data, and you must change this data in a period, for which a billing has already taken place.

Previously you had to use the EA21 transaction to manually reverse the billing, because the system default prevents changes to billing-relevant data. The new function means that the adjustment reversal can take place directly from the process.

The following processes are supported:

- Change container portion (from container location management)
- Change number of containers (from container location management)
- Delimit customer allocation to container (from container location management)
- Change container category (from container location management)
- Remove container (from container location management)
- Create customer allocation to container (from container location management)
- Create service (from service frequency)
- Delete service (from service frequency)
- Delete time slice (from service frequency)
- Change property, number of persons/premises in premise
- Confirm container replacement (from confirmation)
- Confirm container removal (from confirmation)
- Confirm change to number of containers (from confirmation)
- Confirm container delivery (from confirmation)
- Change property portion (from property management)
- Delimit customer allocation to property (from property management)
- Change (valuated) measured amounts (from property management)
- Create customer allocation to property (from property management)
- Maintain allocation of cleaning object to property (from property management)

After you have executed the adjustment reversal, the billing orders are automatically reopened and the relevant IS-U contract is rebilled in the next billing run.

Effects on Existing Data

If you do not want to use this function, then you cannot change billing-relevant data in a period that has already been billed.

Effects on Customizing

You define the billing-relevant processes, which are to lead to an automatic adjustment reversal, in Customizing, under SAP Utilities -> Waste Management -> Master Data -> Billing -> Define Processes for Automatic Adjustment Reversal.

See also

In order for you to be able to change customer-specific, billing-relevant fields, and to map processes that change billing-relevant data, the adjustment reversal is checked and executed within a Business Add-In (BAdI). For this purpose, SAP provides a standard implementation of the ISU_WA_BILLING BAdI, which supports the aforementioned processes. If you want to map further processes, then you must do this in a customer-specific version of the BAdI. For further information, see the documentation for the BAdI.
40.9.1.4 Allocate waste disposal objects or premises (new)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can allocate waste disposal objects or premises directly to the container location in container location management.

This allows you to cover two basic demands:

- You can create a static allocation between the container location and the waste disposal object or premise, which is no longer dependent on the allocation of a customer to the container. This means that it is still apparent which waste disposal object or premise has been allocated to the container location. This is still the case if you reverse or end the allocation of a customer to a container.

- When allocating a customer to a container, you can execute a check on the allocated waste disposal objects or premises. This means you can check whether the customer allocation to a container location is permitted, thus allowing you to avoid incorrect entries.

You use Customizing, under Define Check for Allocation of Objects to Container Location to define whether the allocation is to take place at premise level or waste disposal object level. You can also define here that a check is performed, when allocating the customer to a container, to determine whether the customer is permitted for the container location.

Effects on Existing Data

If you are already using container location management, and want to use the allocation subsequently, you can use the ISU_WA_INITIAL_LOAD_EWAELCEO report to perform an initial allocation of premises or waste disposal objects to a container location. See the report documentation for further details.

Effects on Customizing

To use this new function you must make the corresponding settings in Customizing:

- Define Check for Allocation of Objects to Container Location.

40.9.1.5 Maintain notes at container location level (new)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can maintain notes at container location level, as well as for a service. In addition, it is also possible to pass these notes on to the services for the container at the container location.

This allows you to distribute notes, which are equally valid for all containers at a container location, to all
services for the containers at the container location. You can classify these notes with regard to how valid their use is at the container location.

Because the synchronization of notes between container location and services can be dependent on many general conditions, the standard SAP system only transfers notes that have been recently created at the container location to the services. This means that all services that belong to containers at the container location are provided with the note.

If you want to selectively synchronize notes (or to synchronize them when notes are changed) with notes for a service, then you must execute a customer-specific definition of the ISU_WA_ELOC Business Add-In (BAdI). For further information, see the documentation for the BAdI.

Effects on Customizing

In Customizing, you define whether a note is specific to the container location:

- Define Notes

40.9.1.6 COM4ABAP interface replaced for the PEServer (new)

Use

As of SAP ECC Industry Extension Utilities, Waste and Recycling 6.0 the SAP .NET Connector 2.0 is used for communication with the external weighing. This connection replaces communication using the COM4ABAP interface, which is no longer supported with this release. SAP has stopped maintenance for the COM4ABAP interface.

Effects on Existing Data

You must only adjust the communication with the scales if you used this function with Release 4.72.

Effects on System Administration

You proceed as follows to adjust the communication with the scales:

1. Note the settings for the previous PEServer. You can find these settings in the COM for ABAP window, in the SAP Gateway Registry group.
2. End the COM for ABAP program, or stop the server.
3. Install the new PEServer and set the connection data as described in the configuration guide.
4. Update the system.

See also

You can only use the PEServer as of SAP ECC Industry Extension Utilities, Waste and Recycling 6.0.
You cannot use it with Release 4.72.
See also note 533055.

40.9.1.7 Group services in a service frequency (new)

Use

As of ZK>SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can use a joint indicator to group different services in a service frequency.

The new function is a component of the existing service frequency processing. It is particularly advantageous because services that can only be carried out in pairs (or in combination) can exist for an object. This includes, for example, container services that can only be executed with a frequency "Monday and Thursday" or "Tuesday and Friday". Postponing one individual service would make it necessary to postpone the other service.

To map these connections, we now provide a framework, which makes it possible to group services in the standard version. You can also define this framework specifically.

The framework consists of three parts, which can be used independently of each other:

1. A new activity in the implementation guide (IMG), which allows you to process service groupings, including the definition of standard versions of services
2. The option of a customer enhancement using a Business Add-In (BAdI), which you can use to react to actions for services with service groupings
3. A screen enhancement in the service frequency, which allows you to individually display services and their groupings.

For more detailed information on the customer enhancement options, see the documentation for the ISU_WA_SERVICE_FREQ BAdI.

Effects on Existing Data

This function does not affect your dataset.

Effects on Customizing

If you wish to use the service grouping, you must make the corresponding settings in Customizing, under SAP Utilities -> Waste Management -> Master Data -> Service Frequency -> Define Service Grouping.

40.9.1.8 Preassign the processing mode in single-screen transactions
(changed)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can select the processing mode, with which the transaction is to be started in the following single-screen transactions:

- ERONEW (Maintain service frequency)
- ELOC (Container location management)
- EWAROB (Maintain cleaning object)
- EROUTE (Maintain route)
- EWACLEAN (Maintain property)

Select Continue to automatically start the transaction with the desired processing mode. You need no longer explicitly select the processing mode.

Effects on Customizing

You maintain the preassignment of the processing mode for the aforementioned transactions in Customizing:

- Preassign Processing Mode for Single-Screen Transactions.

40.9.2 IS-U-WA-PC Processing

40.9.2.1 Create bulk waste order without SD order (new)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can create bulk waste orders without corresponding SD orders. This is, for example, advantageous if a bulk waste order is to be free (not relevant for billing). This way you avoid unnecessary data in the system.

Effects on Existing Data

If you do not want the change the bulk waste orders that you created previously in the system, you simply create a new bulk waste type in Customizing, under SAP Utilities -> Waste Management -> Processing of Waste Disposal Orders -> Define Bulk Waste Order Types. The existing orders also remain unchanged if you do not use the new function.

If you want to make changes to existing bulk waste order types, you must ensure that SD orders created previously in the system are not adjusted when the bulk waste orders are changed or confirmed.
Effects on Customizing

If you want to use the new function, use the activity Define Bulk Waste Order Types in Customizing to add a new bulk waste order type, whose item category remains initial. When you create bulk waste orders for this bulk waste order type, no SD order is created in the background.

40.9.2.2 Procedures within facilities, and operations log (new)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can map procedures within waste disposal facilities, such as the mixing and sorting of waste. You can also enter temperatures and other physical parameters for your composting facilities. In accordance with legal requirements, all relevant information for a waste disposal facility is now displayed in an operations log.

Procedures within a facility

The procedures within a waste disposal facility are connected to the corresponding material postings. This must include quantity and value updates to stock.

In order to map these processes, you can use the transaction groups transaction to define corresponding templates and transaction categories for waste disposal facility types. These can

- be grouped - with transaction types, such as mix, sort, convert, repost,
- be defined for a certain waste disposal facility. This means they are provided with incoming and outgoing storage locations (transaction template).

For each transaction category, a list of used materials and a list of resulting materials must be processed. You must define the corresponding material movement types for the materials.

You execute the actual sorting, mixing or transfer activity, including the corresponding material postings, in the Processes Within Facility transaction. Here, you select the waste disposal facility and the transaction category, and enhance the source quantity, planned quantity, and the storage location.

Transactions at compost facilities

For compost facilities it is important to regularly enter physical values (such as temperature, duration, aeration), and to enter these in the operations log. Measured values are stored using measuring points at the functional location of the waste disposal facility.

Operations log

In accordance with legal requirements, all transactions within a waste disposal facility must be logged, and entered in an operations log.

The operations log is only used to display contents. This includes various information that is relevant to the facility, such as:
- **Weighing procedures**
  Transaction Accelerated Weighing Entry

- **Procedures within facility**
  Transaction Procedures Within Facility

- **Malfunction reports**
  Maintenance notifications. By allocating the message origin in Customizing, you can define which messages are displayed.

- **Checks**
  Maintenance notifications. By allocating the message origin in Customizing, you can define which messages are displayed.

- **Workforce planning**
  You use the Waste Disposal Facility transaction to define a personnel area. This displays all persons allocated to the personnel area, for whom a time sheet exists on a specified date.

- **Compost piles**
  In compost facilities, measurement procedures must be entered and documented. A functional location is allocated to the waste disposal facility. Measurement points can be created, and measured values entered for this functional location.

**Effects on Customizing**

To use this new function, you must define the **number range** in Customizing: `SAP Utilities -> Waste Management -> Waste Disposal Facilities -> Basic Data -> Define Number Range for Procedures Within Facility`.


**40.9.2.3 Report for creating a waste life-cycle analysis (new)**

**Use**

As of `SAP ECC Industry Extension Utilities, Waste & Recycling 6.0` you can also use a report to create a
waste life-cycle analysis. Previously this was only possible using *SAP Business Intelligence (SAP BI)*.

According to the guidelines in the *Closed Substance Cycle Waste Management Act* you can create a waste life-cycle analysis for the following over a defined period:

- A certain waste
- A certain waste disposal facility
- A certain business partner
- The combination of the aforementioned options.

You can use the waste life-cycle analysis as the basis for creating a waste management concept.

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### 40.9.3 IS-U-WA-IF Interfaces

#### 40.9.3.1 New interface for offline weighing connection (new)

**Use**

As of *SAP ECC Industry Extension Utilities, Waste & Recycling 6.0* you can add external weighing software from a third party to the accelerated weighing entry, which is integrated in the system. This allows you, in the average case, to continue to carry out weighing procedures, even if the SAP system is not available.

- The external weighing software can use the `BAPI_WASTEWEIGHING_DOWNLOAD` function module to call master data from the SAP system, and to keep this data ready for use.
  
  **Important:** In order to avoid problems, ensure that you read the BAPI documentation.

- You can use the `BAPI_WASTEWEIGHING_UPLOAD` function module to import entered weighing procedures in the SAP system.
  
  **Important:** In order to avoid problems, ensure that you read the BAPI documentation.

If no errors exist, then the confirmed weighing records are immediately updated, according to settings, or are entered using the accelerated weighing entry.

The offline weighing transaction gives you an overview of all confirmed weighing data records, as well as their respective update status. In this activity, you can also manually update the data records, or can transfer them to the accelerated weighing entry for further processing.
40.10 IS-U-IDE  Intercompany Data Exchange

40.10.1 Distribution Lot from Bill Processing (Enhanced)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 the following functions for creating and processing distribution lots are new:

New Functions for Creating the Distribution Lot (IUEEDPPLOTAAALC2):
- New selection criteria: Print document, payment document
- New parameter: 1 distribution lot : 1 aggregated document
- New pushbutton: Preview documents according to selection criteria
- Automatic posting for relevant parameters if the total amount of the lot is the same as the amounts from the payment documents that were determined for the lot
- Items that were selected from table DFKKTHI and checked can be assigned company-specific values for event R252
- In event R253, you can define company-specific rules to check whether an item should be included in the distribution lot

New Functions for Processing the Distribution Lot (IUEEDPLOTAAALC5):
- Transaction IUEEDPLOTAAALC3 has been replaced by transaction IUEEDPLOTAAALC5
- New function: Delete lot items
- New function: Amount and info field in lot items can be changed
- New function: Include items, in level 1 by selection criteria for lot creation, in level 2 by free selection (with the same two service providers)
- Events R252 and R253 for company-specific checks
40.10.2 Update of Change Documents for Point of Delivery (New)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 changes to the point of delivery object are logged. You can have the system display the changes. You do this from the point of delivery transaction menu, under Extras -> Change Documents.

As well as the header data, changes to the following dependent data are taken into account for a point of delivery:

- Point of delivery ID
- Grid
- Installation allocation
- Register allocation

40.10.3 Archiving Object ISU_SWTDOC (New)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, you can use archiving object ISU_SWTDOC to archive switch documents that are no longer in operative use.

During switch document archiving, the archivable switch documents are written to one or more archive files. Archiving object ISU_SWTDOC archives data from the following tables:

- EIDESWTDOC (Switch Document Header)
- EIDESWTDOCSTEP (Switch Document Step)
- EIDESWTMSGDATA (Switch Document Message Data)
- EIDESWTMSGDATACO (Comment in Message Data for Switch Document)
- EIDESWTDOCATTR (Attribute for Activity)
- EIDESWTDOCREF (Switch Document Reference)

Checks

The following conditions must be met in order for switch documents to be archived:
- The switch status of the switch document must not be active
- The retention period must have expired
  You define the retention period in Customizing.

In a subsequent analysis process, you can define your own archivability checks for the switch documents. You can find more information on this in the documentation for BadI ISU_IDE_SWT_ARCHIVE and method ANALYSE_SWITCHDOC.

**Functions**

- Analyze, archive
  Analyze switch documents with regard to possible archiving. Archive archivable switch documents.
- Display
  Read switch document archives and display parts of the data in a list.
- Delete
  Delete switch documents from the database based on the archive created previously.

**Single document display**

The standard business view for object ISU_SWTDOC allows you to display individual archived switch documents in the archive information system (SAP AS).

**Effects on Customizing**

You define the time-related conditions for archiving in Customizing.
You can define a retention period for switch documents in

Customizing for *SAP Utilities* under *Tools -> Archiving -> Define Retention Period for Switch Documents*.

**40.10.4 Dialog for Entering Payment Advice Note Data (Changed)**

**Use**

For *SAP ECC Industry Extension Utilities, Waste & Recycling 6.0*, the dialog for entering payment advice note data has been revised and a number of functions have been added:

- You can now identify the address and point of delivery data at line item level in the dialog
- The identification status is now displayed at line item level
- The log display can now be called for individual payment advice note lines
- You can now enter a control amount against which the current amount in the payment advice note data is checked
- BOR object INVRADVDOC has been enhanced by event ComplaintAdviceProcessed (Process Complaint Notification). This event can be triggered when processing the notification. Function module ISU_DEREG_INV_DATA_100 contains example coding.

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**40.10.5 Aggregation of Messages (New)**

**Use**

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can aggregate messages and monitor incoming and outgoing aggregated messages.

Messages are aggregated at IDoc level. You can specify in the data exchange definition that IDocs of a particular sending type are aggregated. If you do this, IDocs are not sent individually.

You use report REE_DATEX_AGGREGATE_IDOCS to aggregate and to send individual IDocs.

You can find the transaction for aggregating messages in the Utilities Industry menu under Intercompany Data Exchange -> Data Exchange Processes -> Aggregation -> Export Aggregated Messages.

You use report REE_DATEX_MON_AGGREGATE_IDOCS to monitor the aggregated messages.

You can display a list of the relevant data exchange tasks or switch documents. You can navigate from the switch document display to the individual switch document messages.

You can find the transaction for monitoring aggregated messages in the Utilities Industry menu under Intercompany Data Exchange -> Data Exchange Processes -> Aggregation -> Monitor AggregatedMessages.

**Effects on Customizing**

You define IDoc sending types in Customizing for SAP Utilities unter Intercompany Data Exchange -> Data Exchange Processes -> Define IDoc Sending Types.
40.10.6 Dat Exchange Basic Process CHCD_OUT (Changed)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, you can use data exchange basic process CHCD_OUT (Master Data Change for Point of Delivery) to send the following master data changes to the market partner:

- Change to the point of delivery ID
- Change to the allocation of the point of delivery to a settlement unit

The parameters for data exchange basic process CHCD_OUT can have the following additional values:

- CH_EXT_UI - External point of delivery ID changed
- CH_UISETTLU - Allocation of point of delivery to settlement unit changed

Effects on Existing Data

If you already use data exchange basic process CHCD_OUT without any parameters, and you do not want a data exchange task to be created if a point of delivery is changed, you can use an implementation of your own for BAdI ISU_DATEX_CONNECT.

Effects on System Administration

If you have activated your own implementation for BAdI ISU_DATEX_CONNECT and you want to use the new function, use the standard implementation of method IF_EX_ISU_IDE_DATEXCONNECT~DATECONNECT_POD_CHANGED in your own active BAdI implementation.

In order for the changed point of delivery data to be copied into IDoc format, you must either change the implementation of your conversion module or define a new format for the data exchange basic process CHCD_OUT.

For project-specific modules, format module ISU_COMPR_VDEW_UTILMD_CHCD_OUT is used as a template for converting the data from the IDoc format.

Format VDEW_UTILMD can only be used for testing purposes. Therefore, you should replace it with your own project-specific format.

See also

Data Exchange Processes for Master Data Changes
40.10.7 Methods for Changing Point of Delivery ID (New)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 you can, in the change of supplier process, automatically adopt an external point of delivery ID, which was specified by the market partner in a response message. The following BOR method for the ISUPOD BOR object category (point of delivery) is available for this purpose:

UtilPoD.SetPODDescription - Set Point of Delivery ID

This method executes the same checks as those that are performed when manually changing the point of delivery ID using the Create Point of Delivery transaction (EEDM09).

If you cannot allocate the external point of delivery ID (for example, because this is already used by a different point of delivery), then the method triggers exceptions.

Effects on Existing Data

If you want to automatically adopt a changed point of delivery ID in the workflow for the change of supplier, you must adjust your workflow, so that the new BOR method UtilPoD.SetPODDescription is called.

40.10.8 Grid Usage Processing in One Client (New)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, you can map bill and payment processing for deregulated markets in one client.

As a prerequisite, you must implement SAP IS-I/IDEX-GE and use a deregulated two-contract model (including point of delivery, services, and service provider) in SAP IS-U.

Grid usage processing in one client includes the following possibilities:

- Grid usage bills (distributor): Direct posting on receipt of bill (supplier)
- Transfer of bills to FI-CA of supplier
- Payment of bill by internal clearing and creation of payment advice note via payment run of supplier
- Payment advice note (distributor): Direct posting of data on receipt of payment advice note and clearing of individual accounts using distribution lot
40.10.9 Payment Processing in the Deregulated Environment (Enhanced)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, the following new functions exist to further support payment processing in the deregulated environment:

- **Repaying payments on account [IDEX]**
  You can now repay payments on account at individual customer level using the EPLOT transaction. Here, payments on account at individual customer level are listed using the selection criteria given on the initial screen and can be selected by the agent. The selected items are then posted in aggregate to the service provider's contract account for payment. A link from the aggregated posting to the relevant individual customer items is then created by the distribution lot. The payment is only made using the payment program.
  This function also allows you to create an electronic payment advice note for repayment.

- **Evaluation of DFKKTHI [IDEX]**
  The ETHI_DIS transaction allows you to evaluate the DFKKTHI database table and to display it in an ALV grid.
  After starting the transaction, a selection screen is displayed, on which you can enter certain search criteria. The entries found are output, according to the search criteria.

- **Single transaction: Aggregated posting to a service provider's contract account (ETHI) [IDEX]**
  This transaction is the counterpart for the ETHIM mass activity. It allows you to explicitly select individual customer documents for an aggregated posting for a combination of service providers.
  The individual customer documents are first selected and displayed using the specified criteria. They can then be selected individually for the aggregated posting. During the selection, you can restrict the documents to credit, reversal, or budget billing plan items. As with the mass activity, you can preassign the repayment method for credit.

- **Enhancements to the mass activity for aggregated posting**
  - Aggregation variant
    You can select this variant on the Additional Specifications tab page of the mass activity. In addition to the previous aggregation, three further variants are available:
    - Aggregate credit and reversals separately: Credit, receivables, and reversals are aggregated and posted separately.
    - Only aggregate credit separately: Credit is aggregated and posted separately. Reversals and receivables are processed together.
    - Only aggregate reversals separately: Reversals are aggregated and posted separately. Credit and receivables are processed together.
    You can use these aggregation variants in addition to the grouping type defined in the service
provider agreement. For details, see the documentation for the Use Aggregation Additively indicator.

- Repayment method for credit
  When creating the aggregated posting for the credit items, you can specify a repayment method. You do this in accordance with the agreement with the supplier. You can also use event R205 to set customer-specific repayment methods or to indicate items as *Can only be cleared*. See also the documentation on the ISU_SAMPLE_R205 function module.

- Aggregated posting to various aggregated contract accounts for a service provider agreement.
  Before you can execute this function, you must maintain the service provider agreement accordingly, and determine the corresponding aggregation group in event R207. It is necessary here to define a customer-specific function module for this event, and to enter this function module in Customizing for *Financial Accounting*. You do this under *Contract Accounts Receivable and Payable -> Program Enhancements -> Define Customer-Specific Function Modules*. See also the documentation on the ISU_SAMPLE_R207 example module.

- **Enhancements when structuring distribution lots**
  - Add or delete distribution lot items
  - Allocate multiple payments to a distribution lot
  - Detach distribution lot from the payment lot transaction
  - Include clarification worklist
  - Reversal distribution lot with offset to end customer documents that cannot be reversed

  When structuring distribution lots from bill creation data, you can now:
  - Generate a lot from more than one aggregated document
  - Generate more than one distribution lot from one aggregated document

  * The points marked with IDEX can only be used within IDEX-GE.

**Effects on Existing Data**

To allow you to use several aggregated contract accounts, the REDEREGPARA_001 report is used to convert the existing service partner agreements.

**Effects on Customizing**

If you want to use more than one aggregated contract account, you must maintain grouping characteristics. You must maintain at least one grouping characteristic, which can be used as the default grouping characteristic.
40.10.10 Data Exchange Basic Process REQ_CHANGE (Enhanced)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, you can use data exchange basic process REQ_CHANGE (Receive Request for Data Change for Point of Delivery) to save additional process parameters and references for changed master data.

The following changes have been made to data exchange basic process REQ_CHANGE:

-  The name was changed to Receive Request for Data Change for Point of Delivery
-  The optional process parameter Event for Incoming Master Data Changes defines which master data changes are executed with the data exchange process. You can define which events are relevant for your specific project.

In monitoring for the data exchange processes, you can either log all master data changes under one data exchange task, or, when defining the data exchange process, you can use optional process parameter Event for Incoming Master Data Changes to use different data exchange processes based on the context of the change.

You can save and display multiple data objects as references to the data exchange task:

- Business Partner (Data element BU_PARTNER)
- Installation (Data element ANLAGE)
- Contract (Data element VERTRAG)
- Contract Account (Data element VKONT_KK)
- Premise (Data element VSTELLE)
- Device (Data element EQUINER)
- Connection object (Data element HAUS)
- Any BOR object type with a 'DISPLAY' method

The master data change determines which reference is saved automatically. The project-specific conversion module returns the corresponding references to the changed objects.

Effects on Existing Data

If you use data exchange basic process REQ_CHANGE but you do not want to use the new function, no changes are necessary.

Effects on System Administration

If you want to process the master data changes for the point of delivery, implement a function module that calls the data from data exchange basic process REQ_CHANGE with the corresponding parameters, and define it in the IDoc basis.
Also implement a conversion module that converts the data from the IDoc, makes the necessary master data changes, and returns references to the changed objects.

For project-specific modules, format module ISU_COMPR_VDEW_UTILMD_CHCD_IN is used as a template for converting the data from the IDoc format.

Format VDEW_UTILMD can only be used for testing purposes. Therefore, you should replace it with your own project-specific format.

See also
Data Exchange Processes for Master Data Changes

40.10.11 Authorization Check for Switch Document (New)

Use
As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, authorization object E_SWTDOC is used for switch documents. This object allows you to give authorization for the activities Create, Change, and Display in connection with the switch view and an authorization group.

The authorization check only takes effect for creating and displaying switch documents.

40.10.12 Methods of BOR-Object Type ISUSWITCHD (New)

Use
As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0 the BOR object type of switch document ISUSWITCHD has two new methods:

- Method CreateFromMsg: Create New Switch Document from Message
  This method generates a new switch document from the transferred message. If there is no transferred message, the new switch document is generated from the current message at the switch document object. This automatically creates the reference between the switch document and the new switch document.

- Method IdentifyPODDialog: Manual Point of Delivery Identification
  This method calls a dialog for manual point of delivery identification (BApI)
40.10.13 Processing Multiple Tax Records (New)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, you can process multiple tax records in bill and payment processing for deregulated markets.

As a prerequisite, you must implement SAP IS-U/IDEX-GE.

Due to legal requirements, it is possible that different tax codes and therefore different tax records have to be used in bill and payment processing. You can now process different tax records for bill issue, bill receipt processing, and for the transfer of individual bills to FI.

40.10.14 Mapping Information-Related Unbundling (Enhanced)

Use

As of SAP ECC Industry Extension Utilities, Waste & Recycling 6.0, you can use an enhanced authorization concept to protect sensitive data in order to adhere to the requirements of information-related unbundling.

As a prerequisite, you must implement SAP IS-U/IDEX-GE and use a deregulated two-contract model (including point of delivery, services, and service provider) in SAP IS-U.

The enhanced authorization concept for unbundling is based on additional authorization checks and restricted navigation options.

New authorization objects:
- Installation
  You can only display an installation if it also has authorization for service type supply.
- Non-billable services (Point of delivery services)
  You can only display a non-billable service in the data environment if it also has authorization for
  the service type and for the service provider.

- Point of delivery
  You can only display data for a point of delivery if you have authorization.

The new authorizations have an influence on the following objects and applications:
- Installation
- Data environment
- Customer overview
- Connection object overview
- Tree display for selection of points of delivery, profile values, billing documents, and budget billing
  plans
- Meter reading results
- Print documents
- Profile value display
- Point of delivery display
- ISU finder

All of the authorization checks and the necessary implementation examples are available with the
enhancement concept of the business add-in.

The enhanced authorization concept is intended for employees who undertake critical sales tasks. This
refers to employees who could use sensitive data in their daily tasks to gain a competitive advantage over
other companies. It also refers to employees whose tasks involve customer acquisition and customer care.
SAP IS-U/IDEX-GE provides the preconfigured user role Critical Sales Employee, which contains the
necessary authorization objects as well as a CIC profile for controlling the application functions of the
Customer Interaction Center.

Effects on Customizing

You have to activate the functions for the enhanced authorization checks in Customizing before you can
use them.
40.11 IS-U-TO   Tools

40.11.1 IS-U-TO-ARC   Archiving

40.11.1.1 Archiving Installation Facts in SAP IS-U (New)

Use

You can now also archive installation facts in SAP IS-U. The archiving allows you to reduce the workload for your database by archiving installation facts that are no longer required online. The installation facts are deleted from the database and written in archive files. You can use the standard transactions (ES32 Display Installation) to display the archived installation facts at any time.

The archiving object ISU_FACTS has been created for archiving installation facts. Data is archived and deleted from the ETTIFN and ETTIFB tables.

You can find the archiving of installation facts in the menu for the utilities industry, under Tools -> Data Archiving -> Billing -> Archive Installation Facts.

Technical Information on Archiving

The Archive Development Kit is the standard SAP tool for archiving, and is used for archiving and deleting installation facts. The standard transactions for defining archiving objects and starting archiving are AOBJ and SARA.

The archiving of installation facts incorporates the following reports:

1. Archiving Report
   The system analyzes all specified installations, with a view to archiving their installation facts. Those installation facts that can be archived are archived or deleted.
   You can use the ISU_FACTS_ARCHIVE BAdI to define additional checks for deleting or archiving facts.

2. Deletion Report
   The installation facts written in the archive file are deleted from the corresponding database tables.

3. Evaluation Report
   The system displays the archived installation facts.

Effects on Customizing

Activate the archive information structure

Before you start an archiving session for the first time, you must first activate the archive information structure: Customizing for the SAP Utilities -> Tools -> Archiving -> Activate Info Structure for Archiving.

Define the retention period for archiving objects
You use the retention period to define which objects are to be archived:

Customizing for SAP Utilities -> Tools -> Archiving -> Define Retention Period for Archiving Objects.