

Release Notes

by Business Function

SAP for Utilities

SAP ERP Central Component
Enhancement Package 7 for SAP ERP 6.0

CUSTOMER

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ISU_AMI_4: Utilities, Advanced Metering Infrastructure 4

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Advanced Metering Infrastructure 4** (ISU_AMI_4) is available.

For more information, see the following release notes:

- ISU_AMI_4: Conditional Billing (New)
- ISU_AMI_4: Monitoring and Editing TOU Exceptions (New)
- ISU_AMI_4: Monitoring and Editing TOU Exception Responses (New)
- ISU_AMI_4: Archive TOU Exceptions (New)
- ISU_AMI_4: Archive TOU Exception Responses (New)
- ISU_AMI_4: AMI Monitoring, Display Object Key Description (New)
- ISU_AMI_4: Simulate Billing of Profile Values in External System (New)

ISU_AMI_4: Conditional Billing (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), business function **Advanced Metering Infrastructure 4** (ISU_AMI_4), you can process all types of time-of-use exceptions in billing.

Events from demand response programs can for example be represented as time-of-use exceptions. Corresponding functions for conditional billing have been added to IS-U billing, which are available to you if you activate this business function.

Conditional billing can be used to bill critical peak prices during Critical Peak Pricing (CPP) or to clear peak-time rebates (PTR). A typical CPP rate represents the new TOU formula Critical Peak Pricing, which is available to you if you activate this business function. You can use this TOU formula as a basis for additional project-specific formula implementations. For more information, see the documentation about the formula class to support critical peak pricing.

See also

ISU_AMI_4: Monitoring and Editing Time-of-Use Exceptions release note

ISU_AMI_4: Monitoring and Editing Time-of-Use Exception Responses release note

ISU_AMI_4: Monitoring and Editing TOU Exceptions (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), business function **Advanced Metering Infrastructure 4** (ISU_AMI_4), you can use the transaction **ETOUEXCEPT01** to monitor and edit TOU exception responses (path in the SAP Easy Access menu: *Utilities Industry -> Billing -> Time-of-Use Exceptions -> Monitor and Edit Time-of-Use Exceptions*). To create TOU exceptions, use transaction **ETOUEXCEPT02**.

The main purpose of the new function is to monitor TOU exceptions. You can also use it to create, change, and delete TOU exceptions or their activation status. The system generates the corresponding change documents. You can also navigate to the relevant TOU exception program and the relevant TOU exception responses.

During creation of a TOU exception, the system specifies a predefined period in the BAdI **ISU_TOUEXCEPT_TIME**, method **SET_FROM_TO_DATE_TIME**. It also changes the activation status in the BAdI **ISU_TOUEXCEPT_STATUS**, method **SET_ACTIVATION_STATUS** to **Active**.

If you change the activation status for the TOU exception, the system checks in the BAdI **ISU_TOUEXCEPT_STATUS**, method **CHECK_CHANGE_ACTIVATION_STATUS**, whether the TOU exception has already been billed.

Effects on Customizing

To be able to create TOU exceptions, an appropriate TOU exception program is required. You create TOU exception programs as follows in Customizing: *SAP Utilities -> Contract Billing -> Billing Master Data -> AMI: Time-of-Use Interface -> Define Time-of-Use Exception Program*.

See also

For more information, see the application help for SAP Utilities under *Advanced Metering Infrastructure -> Consumption Billing -> Conditional Billing -> Activities in Production Operation -> Monitor and Edit Time-of-Use Exceptions* and the release note for TOU Exception Responses.

ISU_AMI_4: Monitoring and Editing TOU Exception Responses (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), business function **Advanced Metering Infrastructure 4** (ISU_AMI_4), you can use the transaction **ETOUEXCEPTRESP01** to monitor and edit TOU exception responses (path in the SAP Easy Access menu: *Utilities Industry -> Billing -> Time-of-Use Exceptions -> Monitor and Edit Time-of-Use Exception Responses*). To create TOU exception responses, use transaction **ETOUEXCEPTRESP02**.

The main purpose of the new function is to monitor TOU exception responses. You can also use it to create and delete TOU exception responses or change their response category. The system generates the corresponding change documents. You can also navigate to the relevant TOU exception program.

See also

For more information, see application help for SAP Utilities under *Advanced Metering Infrastructure -> Consumption Billing -> Conditional Billing -> Activities in Production Operation -> Monitor and Edit Time-of-Use Exception Responses* and the corresponding transaction documentation and release note for TOU Exceptions

ISU_AMI_4: Archive TOU Exceptions (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function **Utilities, Advanced Metering Infrastructure 4** (ISU_AMI_4), you can use archiving to store time-of-use (TOU) exceptions so that you can view these and use them again as required.

The archiving process for TOU exceptions consists of the following steps:

1. Analysis of TOU exceptions with regard to potential archiving.
2. Archive the TOU exceptions selected in the first step.
3. Delete TOU exceptions from the database on the basis of the previously created archive.
4. Optional reloading of archived and deleted data.
 - i. Note that you **cannot reload individual** TOU exceptions, but must always reload the entire archiving run. This procedure should not normally be used and should be limited to extreme problem cases (for example, incorrect retention period in Customizing).
5. Optional reading of TOU exceptions from the archive and display in a list.

To perform these steps, use the new transaction **Archive TOU Exceptions** (menu path *SAP Easy Access -> Utilities Industry -> Tools -> Data Archiving -> Billing -> ESARA26 - Archive TOU Exceptions*) and the new archiving object IISU_EXCEPT. You can use the following ILM actions to archive TOU exceptions:

- o Archiving
- o Snapshots
- o Data Destruction

See also

For more information, see SAP Library for SAP Utilities under *Advanced Metering Infrastructure -> Consumption Billing -> Exception-Based Billing of Profile Values -> Activities in Production Operation -> Archive Time-of-Use Exceptions*, in the help for the transaction **ESARJ18** (menu path *Help -> Application Help* and the documentation for the following archiving reports:

- REARCH_ANALYSE_EXCEPT
- REARCH_ARCH_EXCEPT
- REARCH_DEL_EXCEPT
- REARCH_REL_EXCEPT
- REARCH_READ_ARCHIVE_EXCEPT

ISU_AMI_4: Archive TOU Exception Responses (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function **Utilities, Advanced Metering Infrastructure 4** (ISU_AMI_4), you can use archiving to store time-of-use (TOU) exception responses so that you can view these and use them again as required.

The archiving process for TOU exception responses consists of the following steps:

1. Analysis of TOU exception responses with regard to potential archiving.
2. Archiving the TOU exception responses selected in the first step.
3. Deleting the TOU exception responses from the database on the basis of the previously created archive.
4. Optional reloading of archived and deleted data.
 - i. Note that you **cannot reload individual** TOU exception responses, but must always reload **entire archiving runs**. This procedure should not normally be used and should be limited to extreme problem cases (for example, incorrect retention period in Customizing).
5. Optional reading of TOU exception responses from the archive and output in a list before the deletion program is run.

To perform these steps, use the new transaction **Archive Administration: Initial Screen** (menu path *SAP Easy Access -> Utilities Industry -> Tools -> Data Archiving -> Billing -> ESARA25 - Archive TOU Exception Response*) and the new archiving object ISU_EXRESP. You can use the following ILM actions to archive TOU exception responses:

- o Archiving
- o Snapshots
- o Data Destruction

See also

For more information, see SAP Library for *SAP Utilities* under *Advanced Metering Infrastructure -> Consumption Billing -> Exception-Based Billing of Profile Values -> Activities in Production Operation -> Archive Time-of-Use Exception Responses* in the help for the transaction **ESARJ17** (menu path *Help -> Application Help* and the documentation for the following reports:

- REAARCH_ANALYSE_EXRESP
- REAARCH_ARCH_EXRESP
- REAARCH_DEL_EXRESP
- REAARCH_REL_EXRESP
- REAARCH_READ_ARCHIVE_EXRESP

ISU_AMI_4: AMI Monitoring, Display Object Key Description (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function ***Utilities, Advanced Metering Infrastructure 4*** (ISU_AMI_4), when you execute the transaction *Monitoring of AMI Communication* (EAMIMON01), you can display two new columns in the hitlist for AMI monitoring:

- ***Object Key Description***
- ***Additional Object Key Description.***

You can display a description for the columns ***Object Key*** and ***Additional Object Key*** here.

You can transfer both new columns to the columns displayed in the column worklist using the function ***Change Layout*** and position these as required.

If you want to display an object key description, use the BAdI ISU_AMI_LOG_MONITORING_DISP2 (Display Object Key Description) with the method DETERMINE_OBJKEY_DESCRIPTION (Determine Object Key Description).

In the case of the object type ***Point of Delivery***, the system determines the external point of delivery ID for an internal object key with a default implementation of the class CL_DEF_IM_ISU_AMI_LOG_MON2 and displays the results accordingly.

See also

For more information, see SAP Library for SAP Utilities under *Advanced Metering Infrastructure -> Monitoring of AMI Communication*.

ISU_AMI_4: Simulate Billing of Profile Values in External System (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), business function **Utilities, Advanced Metering Infrastructure 4** (ISU_AMI_4), you can perform a simulation of time-of-use billing for profile values that are saved in an external system.

The following forms of simulation are supported:

- o Billing simulation even without a billable billing order
- o Budget billing simulation (except in the express transaction **Change Budget Billing Amount- EA61EX**)

To simulate rate steps, access billing in the simulation mode or perform periodic billing with integrated budget billing simulation.

See also

- o Simulate Time-of-Use Billing for Externally Saved Profiles
- o Release note *Enter/Display Period Consumption for Interval Meters (New)*

ISU_AMI_4A: Utilities, Advanced Metering Infrastructure 4A

Use

As of SAP enhancement package 5, support package 9 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Advanced Metering Infrastructure 4A** (ISU_AMI_4a) is available. You can use this business function to activate the following functions with regard to an advanced metering infrastructure:

- **Transfer Disconnection Status of Manually Disconnected/Reconnected AMI Devices**
- **Define External VEE Codes for Advanced Meters**
- **Send Meter Reading Results for Advanced Meters**

For more information, see the documentation for the business function **ISU_AMI_4A** and the relevant section of the enterprise services release note **ISU_AMI_4A: Enterprise Services for SAP Utilities**.

ISU_AMI_4A: Transfer Disconnection Status of Manually Disconnected/Reconnected AMI Devices (New)

Use

As of SAP enhancement package 5, support package 9 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function **Utilities, Advanced Metering Infrastructure 4A** (ISU_AMI_4A), during a manual disconnection/reconnection of AMI devices, you can use enterprise services to send information about the device status change to the external system (such as MDUS).

The disconnection status was previously only transferred from the external system to SAP for Utilities for AMI devices that were disconnected and reconnected remotely. The external system can now also receive information about a **manual** disconnection or reconnection or the cancellation of such an activity. The enterprise services used to do so are as follows:

- o Disconnection/reconnection:
SmartMeterUtilitiesConnectionStatusChangeRequestERPBulkNotification_OUT
- o Cancel disconnection/reconnection:
SmartMeterUtilitiesConnectionStatusChangeRequestERPCancellationBulkNotification_OUT

Enterprise services used for disconnection and reconnection are distinguished by their *category type code* ("1" or "2").

The services listed above are sent for the following activities:

- o Disconnection transaction (EC85/EC86)
 - Enter disconnection (Notification service about the disconnection)
 - Cancel disconnection (Cancel cancellation notification service about the disconnection)
 - Enter reconnection (Notification service about the reconnection)
 - Cancel reconnection (Cancellation notification service about the reconnection)

Note:

Services are only executed if the functions listed above are executed, and not for subsequent changes on the "Disconnection" subscreen.

- o BOR Methods (Object DISCONNECT) for Disconnections in the Background
 - Enter disconnection in the background (Notification service about the disconnection)
 - Cancel disconnection in the background (Cancellation notification service about the disconnection)

- Enter reconnection in the background (Notification service about the reconnection)
- Cancel reconnection in the background (Cancellation notification service about the reconnection)
- o Transactions Involving Disconnected Devices/Installations
 - Full Replacement (EG30) (Notification service about the disconnection)
 - Full Installation (EG31) (Notification service about the disconnection)
 - Billing-Related Installation (EG34) (Notification service about the disconnection)
 - Billing-Related Removal (EG35) (Notification service about the reconnection)

Note: Note that for a billing-related removal (EG35), the system communicates a reconnection (**CategoryCode** = "2"). In the case of an installation (EG31/EG34), the disconnection time is now always set to 00:00:00. If the installation/transaction date is later than the disconnection date, the system transfers the disconnection date to the disconnection information instead of the installation/transaction date.

You can also transfer the disconnection information to the external system using the report **REAMI_MANUAL_DISC_SEND**. This report supports the following modes:

- o **Synchronization mode**
All devices in your IS-U System that have currently been manually disconnected are reported to the external system using the new service.
- o **Repeat send mode**
Messages about disconnection, reconnection or a cancellation of these messages can be sent to the external system again.

For more information, see the relevant report documentation.

See also

For more information, see *SAP Library for SAP Utilities under Advanced Metering Infrastructure -> AMI Capabilities -> Disconnection/Reconnection -> Disconnection/Reconnection Process -> Disconnect/Reconnect Advanced Meter Manually.*

ISU_AMI_4A: Define External VEE Codes for Advanced Meters (New)

Use

As of SAP enhancement package 5, support package 9 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function ***Utilities, Advanced Metering Infrastructure 4A*** (ISU_AMI_4A), you can define external codes for validation, estimation, editing (VEE) for advanced meters.

External systems (such as MDUS) use these VEE codes to validate, estimate and edit discrete or interval measurement data.

Note: In IS-U, the VEE code is for information only and is not used to validate meter readings.

You define your external VEE codes for advanced meters in Customizing for *SAP Utilities* under *Advanced Metering Infrastructure -> Basic Settings -> Define External VEE Codes*.

You can enter and change the codes defined here using the following transactions:

- o Create/change register group (EG04, EG05)
- o Full Installation: Access (EG31)
- o Technical Installation: Access (EG33)
- o Billing-Related Installation: Access (EG34) [Requirement: A device information record must be created in this transaction]
- o Device Modification: Access (EG42)
- o Create Device Information Record: Access (EG44)

The following enterprise services were extended so that they can observe external VEE codes (if available):

- o UtilitiesDeviceERPSmartMeterRegisterCreateRequest_Out
- o UtilitiesDeviceERPSmartMeterRegisterBulkCreateRequest_Out
- o UtilitiesDeviceERPSmartMeterRegisterChangeRequest_Out
- o UtilitiesDeviceERPSmartMeterRegisterBulkChangeRequest_Out
- o SmartMeterUtilitiesMeasurementTaskERPChangeRequest_Out
- o SmartMeterUtilitiesMeasurementTaskERPBulkChangeRequest_Out
- o UtilitiesDeviceERPSmartMeterReplicationBulkRequest_Out

To make a one-time change to the code for validating, estimating and editing registers for the advanced meter that has already been installed and transfer this change to an external system (such as MDUS), you can use the report *Update VEE Code in AMI Devices* (REAMI_FILL_VEE_CODE_IN_DEV).

See also

For more information, see SAP Library for *SAP Utilities* under *Advanced Metering Infrastructure* -> *AMI Capabilities* -> *Edit Advanced Meter Measurement Data* -> *Metered Data Validation, Estimation and Editing* -> *Use VEE Codes for Advanced Meters*.

ISU_AMI_4A: Send Meter Reading Results for Advanced Meters (New)

Use

As of SAP enhancement package 5, support package 9 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function ***Utilities, Advanced Metering Infrastructure 4A*** (ISU_AMI_4A), you can send meter reading results for installation processes using enterprise services for advanced meters that use the AMI function *remote meter reading*.

You can send meter reading results that are created for a move-in, removal or replacement of an advanced meter and that are plausible. The system also sends the corresponding reversals or changes to the meter reading results for a move-in, removal or replacement.

See also

For more information about this function, see the documentation for BAdI **ISU_AMI_SEND_MR** and in SAP Library for *SAP Utilities* under *Advanced Metering Infrastructure -> AMI Capabilities -> Edit Advanced Meter Measurement Data -> Process Discrete Measurement Data -> Transfer Meter Reading Results to MDUS -> Send Meter Readings for Advanced Meter Devices*.

Note that you must implement the BAdI ISU_AMI_SEND_MR to activate the sending of meter reading results.

ISU_AMI_4B: Utilities, Advanced Metering Infrastructure 4B

Use

As of SAP enhancement package 5, support package 9 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Advanced Metering Infrastructure 4B** (ISU_AMI_4B) is available. You can use this business function to activate the following function with regard to an advanced metering infrastructure:

- o **Activation Group for AMI Capabilities (AMICAG)**

For more information, see the documentation for the business function **ISU_AMI_4B** in the SAP Library (help.sap.com).

ISU_AMI_4B: Activation Group for AMI Capabilities AMICAG (New)

Use

As of SAP enhancement package 5, support package 9 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function **Utilities, Advanced Metering Infrastructure 4B** (ISU_AMI_4A), you can define activation groups for AMI capabilities for advanced meters.

You can use the activation group for AMI capabilities AMICAG (Advanced Meter Infrastructure Capability Activation Group) to specify which AMI capabilities in the advanced meter are to be switched on or off for devices or device information records in an advanced meter, independently of the capabilities of the corresponding advanced metering system (AMS) and advanced meter capability group (AMCG).

SAP for Utilities observes both the AMS and AMCG capabilities and the AMI capabilities in the activation group if the activation group is used in the smart meter. You can therefore use this field to further restrict the AMI capabilities: AMI capabilities are only switched on if they are activated by both the AMS and AMCG and also the activation group.

Effects on Customizing

You define your activation groups for AMI capabilities for advanced meters in Customizing for *SAP Utilities* under *Advanced Metering Infrastructure* -> *Basic Settings* -> *Define Activation Groups for AMI Capabilities*.

Effects on Existing Data

You define the assignment and usage of the activation group for devices or device information records in the device management transactions.

You can change the activation group for specific advanced meters directly using the **Device Modification** transaction (EG42). You can use the report **Update AMI Activation Group in Devices** (REAMI_FILL_AMICAG_IN_DEV) to change the activation group for AMI capabilities for several existing advanced meters.

Business Add-Ins (BAI)

The BAI interface **IF_EX_ISU_AMI_DM2** has been added to the BAI **ISU_AMI_DM**.

You can define a default activation group for AMI capabilities that is used both to create devices and device information records and for device installation and device replacement in the BAI **ISU_AMI_DM**.

Serial Number Selection

In transaction IQ09 (Select and Display Serial Numbers), under ISU/CCS, you can use the field **AMICAG** as an additional selection criterion.

You can display the following AMI fields in the results list of the report by adjusting the layout accordingly:

- o Advanced Metering System (AMS)
- o Advanced Meter Capability Group (AMCG)
- o Activation Group for AMI Capabilities (AMICAG)
- o Message attribute

Processes

The following processes observe the AMI capabilities for *AMS*, *AMCG* and *AMICAG*:

- o Receive messages in ERP/CRM
- o Query operational state in ERP/CRM
- o Read devices remotely in ERP/CRM
- o Disconnect/reconnect devices remotely in ERP/CRM

The *AMICAG* field does not have any impact on the change to the AMI device status made using transaction EG42 (Device Modification).

No enterprise service is triggered if you make changes to the field *AMICAG*.

See also

For more information, see SAP Library for *SAP Utilities* under *Advanced Metering Infrastructure -> AMI Capabilities -> Activation/Deactivation of AMI Capabilities -> **Activation Group for AMI Capabilities AMICAG.***

ISU_LOC_CI_4: Localization and Customer Feedback 4 (New)

Use

This business function activates SAP ERP functions that are used as the basis for the functions in the business function *Utilities, Energy Management* (CRM_UT_ER_3). For more information about this, see the following release notes:

- Workflow for Automatic Owner Move-In
- Release note for the business function *Utilities, Energy Management* (CRM_UT_ER_3) in the CRM system

ISU_LOC_CI_4: Workflow for Automatic Owner Move-In (New)

Use

As of enhancement package 3 for SAP CRM 7.0, business function *Utilities Energy Management* (CRM_UT_ER_3), and enhancement package 7 for SAP ERP 6.0, business function *Localization and Customer Feedback (Reversible)* (ISU_LOC_CI_4), a new workflow template WS3350001, is available. Both business functions must be activated to view all included Customizing activities.

This workflow facilitates the automatic move-in of an owner into a vacant installation, including the following enhanced features:

- o **Checks for non-replicated contracts**
The system checks to see whether non-replicated contracts (contracts created in SAP CRM but not yet replicated to IS-U, and/or corresponding entries in the error monitor ECRMREPL) exist for an installation in a given period. If non-replicated contracts exist during the vacancy period of the installation, a work item with this information is sent to an agent. They can then decide whether to stop or to continue with the owner move-in workflow.
- o **Checks for active switch documents**
The system checks to see whether active switch documents of type *start of supply* or *change of supply* exist for an installation in a given period. If active switch documents exist during the vacancy period of the installation, a work item with this information is sent to an agent. They can then decide whether to stop or to continue with the owner move-in workflow.
- o **Contract creation using a CRM product**
The workflow does the following:
 - Creates a contract for the owner and a given installation in IS-U. It uses the master data generator in a similar way as in the situation where a contract is replicated from CRM to IS-U, that is, it assigns a product to the newly created contract. This replaces the step for creating a move-in using a reference move-in document of the existing workflow template.
 - Creates a contract for the owner and a given installation considering the case of a finite vacancy period (that is, a contract existing for the installation and starting at a date later than the planned move-in date of the owner). In this case, it inserts a contract (in IS-U) into this finite vacancy period, assigning a product to this contract.
- o **Product definition and determination**
For a given installation, the system determines the product to be used for the owner move-in as well as for replacing the step determining the reference move-in document of the existing workflow template.

Effects on Customizing

A new Customizing table, EPRODDT_V, (with key fields division and billing class) has been created for SAP ERP under **SAP Utilities -> Customer Service -> Process Execution -> Owner Allocation -> Define Product for Automatic Owner Move-In**. This Customizing table allows you to define the product to be used for the owner move-in. It also allows you to

use a product of a predecessor contract that immediately precedes the last used contract.

See also

For an overview of all new functionality delivered with ISU_LOC_CI_4: *Location and Customer Feedback (Reversible)* see the SAP Help Portal at <http://help.sap.com/erp> under *What's New - Release Notes*.

For an overview of all new functionality delivered with CRM_UT_ER_3: *Business Function Utilities Energy Management*, see the SAP Help Portal at <http://help.sap.com/crm-core> under *What's New - Release Notes*.

ISU_LOC_CI_4A: Utilities, Functional Enhancements

Use

As of SAP enhancement package 4 SP 13 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Functional Enhancements due to Customer Feedback** (ISU_LOC_CI_4A) is available.

For more information, see the following release notes:

- ISU_LOC_CI_4A: Reallocate Point of Delivery/Installation to New Premise (New)
- ISU_LOC_CI_4A: Device Modification in the Future (New)
- ISU_LOC_CI_4A: Change Logging for EDM Objects (New)
- ISU_LOC_CI_4A: Additional Authorization for Installation Facts (New)
- ISU_LOC_CI_4A: Upload Price Data to the SAP IS-U System (New)

See also

For more information, see the documentation for the business function *Utilities, Functional Enhancements due to Customer Feedback*.

ISU_LOC_CI_4A: Reallocate Point of Delivery/Installation to New Premise (New)

Use

As of SAP enhancement package 4 SP 13 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), the business function ***Utilities, Functional Enhancements due to Customer Feedback*** (ISU_LOC_CI_4A) is available, which you can use to reallocate a point of delivery or an installation to a different premise using the transaction *Reallocate Connection Object: Initial Screen* (ES64).

This transaction contains the new tab page ***Change Premise in Installation***, which contains the following three fields:

- o Two fields that identify the installations or points of delivery to be reallocated.
- o A field in which you specify the new premise.

If SAP CRM for Utilities has been integrated, the master data change is replicated to CRM. To avoid the creation of inconsistent data, see CSS note 1821967, which provides the CRM functions for data processing.

See also

For more information, see SAP Library under *SAP Utilities -> Master Data -> Premise -> Reallocate Point of Delivery/Installation to the New Premise*.

ISU_LOC_CI_4A: Device Modification in the Future (New)

Use

As of SAP enhancement package 4 SP 13 for SAP ERP 6.0, Industry Extension Utilities, Waste & Recycling (ISU_UTIL_WASTE), the business function **Utilities, Functional Enhancements due to Customer Feedback** (ISU_LOC_CI_4A) is available, which you can use to modify a device on a future date using the transaction *Device Modification: Initial Screen* (EG42).

This means that with immediate effect, this device is also available for actual devices and not just device information records.

Effects on Customizing

This function is controlled using the Customizing parameter EG42DEVFM under *SAP Utilities -> Device Management -> Installation -> Basic Settings -> Define System Parameters for Installation/Removal/Replacement*.

ISU_LOC_CI_4A: Change Logging and Text for EDM Objects (New)

Use

As of SAP enhancement package 4 SP 13 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Functional Enhancements due to Customer Feedback** (ISU_LOC_CI_4A) is available. This business function logs changes for various EDM objects. You can record additional information for profile versions.

Change Documents

Change documents are used to log changes to settlement units regarding the header data, hierarchy and point of delivery allocation for the following transactions:

- o Create Settlement Unit (EEDMSETTLUNIT01)
- o Change Settlement Unit (EEDMSETTLUNIT02)
- o Display Settlement Unit (EEDMSETTLUNIT03)

You can display change documents in these transactions by choosing **Extras -> Change Documents**.

Administrative Data

Creation data (created on/by, changed on/by) and field changes are logged for the following transactions:

- o Settlement Unit
 - Create Settlement Unit (EEDMSETTLUNIT01)
 - Change Settlement Unit (EEDMSETTLUNIT02)
 - Display Settlement Unit (EEDMSETTLUNIT03)

You can display change logs in these transactions by choosing **Extras -> Creation Data** or **Extras -> Field Changes**.

- o Allocation of Point of Delivery to Settlement Unit
 - Create Point of Delivery (EEDM09)
 - Change Point of Delivery (EEDM10)
 - Display Point of Delivery (EEDM11)
- o Allocate Profile to Register
 - Change Profile Allocation (EEDM04)
 - Display Profile Allocation (EEDM05)
- o Allocate Load Profile to Installation
 - Create Installation (ES30)
 - Change Installation (ES31)
 - Display Installation (ES32)

The administrative data is displayed using the ALV list in these transactions.

Validate Consumption Factor

To validate manual changes to the consumption factor and to validate changes to the consumption factor that result from the billing run, the method **Check Load Profile**

Allocations has been added to the BAdI **Load Profile Allocation for Installation**(ISU_LPASSLIST). This means you can ensure that the system displays a warning as of a certain limit for specific projects.

For more information, see the documentation for the interface method **CHECK_LPASSLIST_INPUT** and the implementing class in the example implementation **CL_ISU_LPASSLIST_UF_VAL**.

Text Field for Profile Versions

To record additional information about profile versions, you can use the editable text field in the version overview that is found in the transaction **Change Profile Values** (EEDM01). You access the version overview, by selecting a row and then choosing **Version -> Select Version(s)**.

ISU_LOC_CI_4A: Additional Authorization for Installation Facts (New)

Use

As of SAP enhancement package 4 SP 13 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Functional Enhancements due to Customer Feedback** (ISU_LOC_CI_4A) is available.

You can use the authorization check in this business function to prevent installation facts being edited in the system, and restrict this using the new authorization object for installation facts (E_INSTFACT). To perform the authorization check, implement the Business Add-In **Check Authorization for Installation Facts**(ISU_INSTLN_FACTS_AUTHORIZATION). Also see the implementation example **CL_EXM_IM_ISU_INSTL_FACTS_AUTH**.

You can also use the customer exit EBIA0027 to perform additional checks at operand level.

Note that possible entries (F4) are now available in the transactions for the installation, contract and premise for selecting values in the field **Authorization Group**.

Effects on Customizing

Customizing for SAP Utilities -> Master Data -> Basic Settings -> Define Authorization Objects

Customizing for SAP Utilities -> Master Data -> Basic Settings -> Define Authorization Groups

ISU_LOC_CI_4A: Upload Price Data to the SAP IS-U System (New)

Use

As of SAP enhancement package 4 SP 13 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Functional Enhancements due to Customer Feedback** (ISU_LOC_CI_4A) is available.

You can use this business function to upload price data from an Excel file into the SAP IS-U system. You can use the **Import Prices from Excel** report (ISU_PRICE_UPLOAD) to do this. With the business add-in **Definition for Price Upload** (ISU_PRICE_UPLOAD_DEF), you can adjust the upload of price data to meet your company's requirements.

See also

Documentation for report **Import Prices from Excel**

Documentation for business add-in **Definition for Price Upload**

ISU_CA_3: Utilities, Contract Accounts A/R and A/P 3

As of SAP enhancement package 7 for SAP ERP 6.0, you can use this business function to:

- o Archive payment data from payment runs
- o In Enhanced Message Management, enter your own names for solution processes
- o Manage archived data based on ILM residence rules using the integration with SAP NetWeaver Information Lifecycle Management
By storing the archived data in specified retention periods, destruction of the data in accordance with legal requirements is possible.
- o As part of the integration with new General Ledger Accounting, you can add the newly introduced account assignments - business area, segment, and profit center - not only to new documents, but also to documents already posted
To do so, you can use a prepared enhancement to add a second set of account assignment fields in your business partner items.
- o Integrate Contract Accounts Receivable and Payable (FI-CA) and Sales and Distribution (SD), even if you run the two components in distributed systems
- o Use the new data storage for trigger entries in the outbound interface for postings on the business partner
- o Within the context of the connection to external tax systems:
 - Transfer the complete business partner items to the external tax system for documents that were created in invoicing
 - Use a prepared enhancement to activate additional fields that you need for calculating U.S. tax in business partner items and G/L items
 - When writing off documents from invoicing, determine the tax in proportion to the relationship between the amount being written off and the original total amount
 - Update tax in an external tax system by document item or by document to meet legal requirements for sales tax reporting in the United States and Canada
- o Suppress the optimized calculation of tax amounts in Contract Accounts Receivable and Payable
- o Enter the special period in requests and FI-CA documents that should be posted later during the transfer to the general ledger
- o Enter information for a comment on processing locks
- o Using the contract, select write-off histories, collection items, payments, returns histories, as well as doubtful entries and adjusted receivables
- o During the mass change of documents, enter new values for the document items to be changed in a new, single-column table
- o Only select and output locks on open documents in the transaction for evaluating processing locks (transaction FPLKA)
- o During the clarification of incoming payments, recognize by a symbol if a clarification note was entered for a given clarification case
- o When creating foreign trade declarations, format the reporting data in accordance with national regulations and store the data in a local file that you transmit to the responsible

authority

In the future, you can access the documentation of DataSources of Contract Accounts Receivable and Payable in the documentation of Contract Accounts Receivable and Payable and not, as before, in the documentation of SAP NetWeaver Business Warehouse under **BI Content**.

For more information, see the following release notes:

- o Archiving
- o Enhanced Message Management
- o New Events
- o SAP NetWeaver ILM and Archiving in Contract Accounts Receivable and Payable
- o Use of Additional Account Assignments During Live Operations
- o Integration with Sales and Distribution
- o Outbound Interface for Postings to Business Partner
- o Connection to External Tax Calculation Systems
- o Tax Calculation
- o Special Periods
- o Locks
- o Contract in Histories
- o Enhancements in Transaction FPE2M
- o Enhancements in Transaction FPLKA
- o Clarification Note for Incoming Payment Clarification
- o Foreign Trade Declarations
- o Documentation of DataSources

See also

SAP Library for SAP ERP on the SAP Help Portal at <http://help.sap.com/erp> -> **SAP Enterprise Resource Planning -> SAP ERP Enhancement Package 7 for SAP ERP 6.0 -> Application Help -> <Language> -> Business Functions (SAP Enhancement Package 7 for SAP ERP 6.0) -> Business Functions in SAP ERP -> Industry Business Function Sets -> SAP Contract Accounts Receivable and Payable -> Contract Accounts A/R and A/P, 05.**

ISU_CA_3: Archiving (New)

Use

As of SAP Enhancement Package 7 for SAP ERP 6.0, the following functions for archiving in Contract Accounts Receivable and Payable are available:

Archiving of Payment Data from Payment Runs

Archiving object FI_MKKPAYH can be used for archiving payment data from payment runs.

The prerequisites for archiving are described in the documentation of report **RFKPYARC01**.

Archiving of Security Deposits

Archiving object FI_MKKSEC can be used for archiving security deposits.

Effects on Customizing

Archiving of Payment Data from Payment Runs

Enter the residence time and activate the archiving information structure for payment data from payment runs in Customizing for Contract Accounts Receivable and Payable under **Business Transactions -> Payments -> Archiving**.

Archiving of Security Deposits

Enter the residence times and activate the archiving information structure for security deposits in Customizing for Contract Accounts Receivable and Payable under **Business Transactions -> Security Deposits -> Archiving**.

ISU_CA_3: Enhanced Message Management (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can enter your own names for solution processes in clarification cases.

Effects on Customizing

Assign the name of the call definition of the solution process in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Enhanced Message Management -> Specifications for Generating Clarification Cases -> Enter Texts for Solution Processes**.

ISU_CA_3: New Events (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can use the following new events:

- o **0178:** Taxes: Add to Data During Update to External System
- o **0199:** Filter Contracts by Contract Category
- o **0421:** Master Agreement/Filter: Check Test Data for Assignment
- o **0530:** Master Agreement: Enrich Data; Influence Check Status
- o **0553:** Provider Contract: Normalization of IDs
- o **0554:** Provider Contract: Reading of IDs (Migration to ERP)
- o **0560:** Generation of Partner Consumption Items
- o **0561:** Filling of Additional Fields in Partner Consumption Items
- o **0657:** SEPA Direct Debit Pre-Notification: Add to Data Before Saving
- o **0658:** SEPA Direct Debit Pre-Notification: Follow-On Activities After Change
- o **0576:** SEPA Mandates: Mandate Changes After Change of Bank
- o **0771:** Correspondence: Print SEPA Mandate Request
- o **0772:** Correspondence: Generate SEPA Mandate Request
- o **0776:** Correspondence: Print SEPA Direct Debit Pre-Notification
- o **0777:** Correspondence: Generate SEPA Direct Debit Pre-Notification
- o **0949:** Set Account Assignments for Subsequent Postings
- o **1123:** Document: Mass Change - Initialization
- o **1790:** MassAct: Deletion of Table Entries
- o **1791:** MassAct: Deletion of Table Entries for Shift Parameters
- o **1857:** MassAct: Delete Outbound Interface Trigger
- o **1858:** MassAct: Outbound Interface Delete Triggers, Parameters
- o **1892:** MassAct: Adjustment Records for Partner Settlements
- o **1893:** MassAct: Adjustment Records for Partner Settlement (Shift)
- o **1894:** Determination of Adjustment Amount for Partner
- o **1896:** Subsequent Introduction of Account Assignments
- o **1897:** MassAct: SEPA Prenotification
- o **1898:** MassAct: SEPA Prenotification, Shift Parameters
- o **1982:** Foreign Trade Declaration: Data Export to Local File
- o **5706:** SAP CC: Business Relationship with Bus. Partner (B2B/B2C)
- o **6534:** Requests: Propose Alternative Currency
- o **6750:** Mass Act: Interval Function Module for Mass Activities
- o **8175:** BIX: Analyze and Enrich Consumption Items
- o **8182:** BIX: Mass Activity: Rating

- o **8183:** BIX: Mass Activity: Move Rating Parameters
- o **8187:** Mass Activity: Partner Activation
- o **8188:** Mass Activity: Move Partner Activation Parameters
- o **8189:** BIX: Mass Activity: Perform Rerating
- o **8190:** BIX: Mass Activity: Move Rerating Parameters

Effects on Customizing

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

ISU_CA_3: SAP NetWeaver ILM and Archiving in Contract Accounts Receivable and Payable (New)

Use

Integration with SAP NetWeaver Information Lifecycle Management

As of SAP enhancement package 7 for SAP ERP 6.0, the integration of Contract Accounts Receivable and Payable (FI-CA) with SAP NetWeaver Information Lifecycle Management (SAP NetWeaver ILM) lets you manage archived data on the basis of residence rules. By storing the archived data in specified retention periods, destruction of the data in accordance with legal requirements is possible.

The following archiving objects in Contract Accounts Receivable and Payable were integrated with SAP NetWeaver ILM:

Archiving object	Description	Software Component
FI_MKKCORR	FI-CA Correspondence	FI-CA
FI_MKKCREG	FI-CA Check Management	FI-CA
FI_MKKDOC	FI-CA Document	FI-CA
FI_MKKEXC	FI-CA External Payment Information	FI-CA
FI_MKKEXCJ	FI-CA Cash Journal (Inbound Services)	FI-CA
FI_MKKINF	FI-CA Information Container	FI-CA
FI_MKKIP	FI-CA Payment Specifications	FI-CA
FI_MKKPAYL	FI-CA Payment Lot	FI-CA
FI_MKKPCRD	FI-CA Payment Card Supplement	FI-CA
FI_MKKPNBK	FI-CA Prenotification	FI-CA
FI_MKKPP	FI-CA Promise to Pay	FI-CA
FI_MKKPPAC	FI-CA Prepaid Accounts	FI-CA
FI_MKKCAMA	FI-CA Master Agreement	FI-CA
FI_MKKCAVT	FI-CA Provider Contract	FI-CA
FI_MKKREHI	FI-CA Returns History	FI-CA
FI_MKKRET	FI-CA Returns Lot	FI-CA
FI_MKKPAYH	FI-CA Payment Data from Payment Runs	FI-CA
FI_MKKSEC	FI-CA Security Deposit	FI-CA
FKK_GENREP	FI-CA Generic Tax Reporting	FI-CA
FKK_GENREV	FI-CA Generic Tax Reporting - Revenue	FI-CA
FI_MKKPRNH	FI-CA: Direct Debit Pre-Notifications (SEPA)	FI-CA
FI_MKKMDOC	FI-CA: Sample Documents	FI-CA
FI_MKKUSTX	FI-CA: Telecommunications Tax	FI-CA
FI_MKKEXTD	FI-CA: Official Document	FI-CA

FI_MKKGENS

FI-CA: Generic Tax Reporting - Additional Table FI-CA

In addition, the archiving object CA_BUPA (business partner) is integrated with NetWeaver ILM.

Note for the industry solution component Public Sector Contract Accounts Receivable and Payable (IS-PS-CA)

Archiving object FMCA_FB (PSCD form bundle) was integrated with SAP NetWeaver ILM.

Note for the industry solution component Insurance Contract Accounts Receivable and Payable (FS-CD)

The following archiving objects were integrated with SAP NetWeaver ILM:

<u>Archiving object</u>	<u>Description</u>	<u>Software Component</u>
VVKK_ITAG	VVKK: Archiving Agency Collections	INSURANCE
VVKK_SCHED	VVKK Bill Scheduling	INSURANCE
VVKK_BRCOL	Broker Report	INSURANCE
VVKK_COINH	Coinsurance Reporting	INSURANCE
VVKK_FAKTB	IS-CD Posting Data	INSURANCE
VVKK_INTEG	Insurance Integration	INSURANCE
VVKK_INVCH	Invoicing History	INSURANCE
VVKK_REPCL	Clarification Worklist for Money Laundering Regulations	INSURANCE
VVKK_SAICH	Balance Interest Calculation History	INSURANCE
VVKK_TAX	Tax Reporting for Italy	INSURANCE

Archiving objects integrated with SAP NetWeaver ILM offer up to three additional actions:

- o Archiving (archiving of data after successful archivability check)
- o Snapshot (archiving of data without checks)
- o Destruction of data (destruction of archived data in accordance with the rules from the **Information Retention Manager**)

Caution

BDT archiving objects integrated with SAP NetWeaver ILM only offer the ILM actions **Archiving** and **Destruction of Data**.

In transaction ILMARA, you enter the audit areas to which you can assign ILM objects for a policy category (for FI-CA: retention rule only); in transaction IRMPOL, you enter the ILM policies by specifying the policy category, object category, audit area and ILM object.

In transaction ILMSIM, you can simulate the policies that you entered in transaction IRMPOL.

Deletion of Other Objects

As of SAP enhancement package 7 for SAP ERP 6.0, you can reduce the load on your database by deleting data from tables that you do not archive and no longer need online.

Along with the deletion objects of the standard system, you can implement your own deletion

objects as follows. To do so, you define a function module that deletes the data from the appropriate tables (see example function module FKK_DELOBJ_0000) and enter the deletion object in the customer namespace in Customizing.

Effects on Customizing

Integration with Information Lifecycle Management (ILM)

You make the system settings for retention regulations and retention rules in Customizing for Contract Accounts Receivable and Payable under **Data Deletion** in the following activities:

- o **Define Retention Regulations**
- o **Assign Retention Regulations**

Delete Other Objects

You find the deletion objects in Customizing Contract Accounts Receivable and Payable under **Data Deletion -> Enter Deletion Objects**.

You can enter your own deletion objects also in Customizing Contract Accounts Receivable and Payable under **Data Deletion -> Enter Deletion Objects**. Assign the appropriate deletion module to the deletion object here and specify a residence time.

ISU_CA_3: Use of Additional Account Assignments During Live Operations (New)

Use

You can enter the following account assignments in business partner items in the posting document in Contract Accounts Receivable and Payable:

- o Business area
- o Segment
- o Profit center

If you have not used one of these account assignments up to now, but want to use it in the future, you can only do so in new documents. You cannot change any of these account assignments in documents posted already because this leads to errors when reconciling with the general ledger. As a result, the account assignments are also missing in follow-on postings that arise due to clearing or other follow-on processes (such as cash discounts, payment surcharges, interest, exchange rate differences, down payments on statistical request) for these documents. For key date evaluations of open items, balances without account assignment remain until the last items without account assignment are cleared.

To eliminate these effects, as of SAP enhancement package 7 for SAP ERP 6.0, you can use a prepared enhancement to add a second set of account assignment fields in your business partner items. These include the term **subsequent**, for example, **Profit Center Assigned Subsequently to an Account**. If the original account assignments are not set, after implementing the enhancement, fill the additional fields with the appropriate account assignments using a mass activity (on the SAP Easy Access screen under **Changeovers in Live System -> Set Subsequent Account Assignments in Business Partner Items**). Derivation of the appropriate account assignment occurs at event 0949, which you must define in accordance with your requirements.

You can use these subsequently set account assignments as follows:

- o Follow-on postings for items with subsequent account assignment receive the account assignments in exactly the same way as if the original fields in the business partner item had had these account assignments. The system takes follow-on postings into account for:
 - Clearing (cash discounts, payment surcharges, exchange rate differences, down payments on request, charges on request)
 - Write-off (expense or revenue)
 - Interest calculation

The goal is for all postings to have account assignment to the income statement, and not to allow any new, open business partner items to be created without account assignment. Therefore, the system always takes into account all subsequently set account assignments, without taking a key-date-dependent view, as with reports on open items.

- o The clearing posting on the receivables account or payables account is not affected by the subsequent account assignments, since the clearing of an item always has to be posted with the same account assignments as were used when the item was created.
- o Valuation gains and valuation losses resulting from foreign currency valuation also receive their account assignments as if the account assignments were already entered in the original fields in the business partner items.

- o You can also take the subsequent account assignments into account for key date evaluations of open items (reclassification, aging, foreign currency valuation). For each company code, enter the key date, starting from which this should take place, in Customizing for Contract Accounts Receivable and Payable under **Closing Operations -> Define Settings for Subsequent Account Assignments**.

The system then displays the balances and all required adjustment postings for receivables and payables as if the original account assignment fields were set. Since the general ledger still records the balances without account assignment, the system proposes additional adjustment postings, that you can post from the SAP Easy Access screen under **Periodic Processing -> Closing Preparation -> Adjustments for Subsequent Account Assignment**. Using these adjustments, the system reduces the balances without account assignment using the adjustment accounts for receivables and payables, and builds up balances with account assignment. As a result of the adjustment, the receivables and payables for postings with subsequent account assignment appear in the balance sheet as if they were originally entered with these account assignments.

Note

The entries in the Customizing activity **Define Settings for Subsequent Account Assignments** then also cause the enrichment of account assignments for key date evaluations, if no subsequent account assignments were set, but an enrichment was made at event 0945 during the general ledger transfer. All adjustment postings for receivables and payables then inherit the account assignments that the system added during the general ledger transfer. For more information, see the documentation for event 0945.

Proceed as follows to add subsequent account assignments:

1. Preparation
 - Execute the prepared enhancement.
 - Define the events 0944, 0945 and 0949 to meet your requirements.
2. Introduction of the Account Assignment
 - Set the subsequent account assignments from the SAP Easy Access screen under **Changeovers in Live System -> Set Subsequent Account Assignments in Business Partner Items**.
 - In Customizing under **Closing Operations -> Activate Subsequent Account Assignments for Closing Operations**, enter the date for all affected company codes starting from which you want an enrichment to take place during the general ledger transfer and at the same time the subsequent account assignments should be taken into account for key date reports.
 - Migrate the balances of the reconciliation accounts to Contract Accounts Receivable and Payable. In doing so, set a dummy account assignment for the desired account assignment field (such as profit center).
3. Closing Operations
 - For the evaluation of open items for a key date, enter a name for the export of the transfer data for subsequent account assignments.
 - In addition to other adjustment postings (reclassification, aging), also enter the adjustment posting for the subsequent account assignments (on the SAP Easy Access screen under **Periodic Processing -> Closing Preparation -> Adjustments for Subsequent Account Assignment**).

Effects on Customizing

To add the initial account assignments to business partner items of the document, in

Customizing for Contract Accounts Receivable and Payable, choose **Program Enhancements -> Prepared Enhancements -> Add Fields for Subsequent Account Assignments**.

You activate adjustment postings for individual company codes in the activity **Define Settings for Subsequent Account Assignments** in Customizing for Contract Accounts Receivable and Payable, or under **Integration -> General Ledger Accounting or Closing Operations**.

ISU_CA_3: Integration with Sales and Distribution (New)

Use

Previously, you could only use the interface between Sales and Distribution (SD) and Contract Accounts Receivable and Payable (FI-CA) in an integrated scenario in one client.

As of SAP Enhancement Package 7 for SAP ERP 6.0, you can also integrate Contract Accounts Receivable and Payable and Sales and Distribution even if you run both components in distributed systems. To do this, the following prerequisites must be fulfilled:

- o The customer must be defined with an identical key in both systems - as a customer in the SD system and as a business partner with a contract account in the FI-CA system.
- o Customizing for company codes, controlling areas, operating concerns, and billing types must match in the FI-CA and SD systems.
- o If you use multiple SD systems, you must use different number ranges for SD invoicing documents.

In a distributed scenario, create the SD order and SD billing document in the SD system. However, post the accounting document in Contract Accounts Receivable and Payable in the FI-CA system.

On the basis of the customer account group, the SD system decides whether to send an SD billing document to the FI-CA system. The decision is made by means of message condition records during billing. The information is transferred by IDoc to Contract Accounts Receivable and Payable.

Depending on the billing type, Contract Accounts Receivable and Payable posts:

- o Directly
- o After invoicing in Contract Accounts Receivable and Payable
- o Sample documents

If you reverse an SD billing document, the SD system also sends an IDoc to the FI-CA system.

If you have integrated Contract Accounts Receivable and Payable with Profitability Analysis (CO-PA), the SD system also sends the corresponding profitability segments to the FI-CA system.

Note the following:

- o From the SD billing document, a profitability segment is determined from the available characteristics combination. This profitability segment is unknown in the FI-CA system and must be converted there. To do this, you can also use an alternative characteristics combination with less granularity.
- o When you post a document directly in Contract Accounts Receivable and Payable, the SD system sends the corresponding profitability segment by IDoc to the FI-CA system and converts it to a local profitability segment there.
- o When you post by invoice trigger, the FI-CA system does not determine the converted profitability segment until invoicing in Contract Accounts Receivable and Payable.
- o When you post using a sample document, Contract Accounts Receivable and Payable determines the converted profitability segment when the sample document is posted. In each case, the CO-PA document is not posted until it is transferred to Profitability Analysis (CO-PA).

In the document flow of the SD billing document, you can see the current status. If the IDoc in Contract Accounts Receivable and Payable was not yet processed, the status of the outbound IDoc is displayed. All documents of Contract Accounts Receivable and Payable can be displayed directly from the document flow.

In document header messages, you can check the status of the outbound IDoc. In the event of errors, you can display error messages and trigger the distribution to Contract Accounts Receivable and Payable again.

You can monitor the distribution in the SAP Menu under: **Periodic Processing -> Reconciliation of Documents with Source Data -> Reconciliation with SD Billing Documents**. The program assigns FI-CA documents to SD billing documents and finds inconsistencies.

To find errors in IDoc inbound processing, you can use transaction **WE02**.

Effects on Customizing

You make system settings for SD integration for distributed systems in Customizing for Sales and Distribution in the system in which Sales and Distribution is running, and in Customizing for Contract Accounts Receivable and Payable in the system in which Contract Accounts Receivable and Payable is running:

- o Sales and Distribution
Define the account groups that are relevant for integration with Contract Accounts Receivable and Payable under: **Basic Functions -> Integration with Contract Accounts Receivable and Payable -> Specify Posting of Debtor Groups to Contract Accounts Receivable and Payable**.
- o Contract Accounts Receivable and Payable
Define and activate system connections under: **Integration -> Sales and Distribution -> Define Logical Systems for Distributed SD Systems**.

ISU_CA_3: Outbound Interface for Postings to Business Partner (Changed)

Use

Using the outbound interface, you transfer open and cleared items, as well as payments of a business partner, to an external system using an XI interface (for instance, for invoice creation).

As of SAP enhancement package 7 for SAP ERP 6.0, the data storage for the trigger entries has changed in the outbound interface for postings to the business partner.

Tables DFKK_TRIGX_OP, DFKK_TRIGX_CL, DFKK_TRIGX_PAY and DFKK_TRIGX_RCL replace tables DFKK_TRIGGER_OP, DFKK_TRIGGER_CL, DFKK_TRIGGER_PAY and DFKK_TRIGGER_RCL.

To prevent problems during parallel updates, the system writes a separate trigger entry for each triggering document. The mass run for the transfer (transaction FPOITR) considers all business partners, for which there is at least one trigger entry in table DFKK_TRIGX_OP with status **1 (Preselected for Transfer)**. Entries in the old trigger table DFKK_TRIGGER_OP that were not yet transferred are automatically moved to the new table DFKK_TRIGX_OP. The mass activity works primarily on the new trigger table DFKK_TRIGX_OP, however, it still also considers data in the old trigger tables DFKK_TRIGGER_CL, DFKK_TRIGGER_PAY and DFKK_TRIGGER_RCL that was not yet processed.

Unlike the previous procedure, the system no longer automatically deletes trigger entries 180 days after the transfer. The transfer is now separate from the deletion of triggers. You delete trigger entries using a mass run. On the SAP Easy Access screen, choose **Periodic Processing -> Delete Data -> Triggers for Outbound Interface**.

ISU_CA_3: Connection to External Tax Calculation Systems (New)

Use

Calculation of Sales Tax in External Tax Systems for Documents from Invoicing

For the calculation of sales tax in the U.S.A. and Canada, SAP offers an interface to external tax systems. This interface can be used to transfer the tax-relevant data by document. In Contract Accounts Receivable and Payable, this interface is serviced only by document item.

As of SAP enhancement package 7 for SAP ERP 6.0, you can now transfer the complete business partner items to the external tax system for documents that were created in invoicing. The corresponding industry function modules at event 1110 were enhanced for this.

Define the specifications for G/L account determination in Customizing.

Adding Fields in Document Items for the Calculation of U.S. Taxes

As of SAP enhancement package 7 for SAP ERP 6.0, you can use a prepared enhancement to activate additional fields that you need for calculating U.S. tax in business partner items and G/L items. The prepared enhancement encompasses the fields that are found in the interface of the external tax system for the calculation of U.S. tax, but are not contained in the document items in the standard system.

Write-off

In those cases where tax needs to be taken into account when documents are written off, up to now, the system recalculated this tax. However, for documents from invoicing, this would lead to differences in cases where the tax is calculated by document and a restriction was applied to the calculation of tax (maximum tax).

For these documents, when writing off, the system determines the tax proportionally using the relationship of the amount being written off to the original total amount.

Updating of External Tax Systems

In order to meet the legal requirements for reporting of sales tax in the U.S.A. and Canada, Contract Accounts Receivable and Payable updates the tax data in an external tax system.

Until now, Contract Accounts Receivable and Payable only supported the interface for updating tax data by document item. As of SAP enhancement package 7 for SAP ERP 6.0, Contract Accounts Receivable and Payable now also supports the interface for updating tax data in an external tax system document-by-document.

In Customizing, you decide for each calculation procedure if you want to update tax in an external tax system by document item or by document.

If you calculate the tax in invoicing for each document, and then write off these documents, the system no longer performs a control calculation when the write-off documents are updated, and an update is always forced for these documents.

For documents where the tax items add up to zero (for example through offsetting receivables and credit memos), there is also no control calculation when the document is updated, and the update is also forced.

Effects on Customizing

Updating of External Tax Systems

Specify how the external tax system should be updated. In Customizing for Contract

Accounts Receivable and Payable, choose **Basic Functions -> Particular Aspects of Taxation Procedure -> Specify Interface for Updating Taxes in External System.**

Calculation of Sales Tax in External Tax Systems for Documents from Invoicing

Set the **Maintain Central Settings for Posting** indicator in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Postings and Documents -> Basic Settings -> Maintain Central Settings for Posting.**

Make the settings for determining the G/L account for the tax posting in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Particular Aspects of Taxation Procedure -> Make Specifications for Account Assignment for Externally Calculated Tax.**

Adding Fields in Document Items for the Calculation of U.S. Taxes

To add additional fields, run the report in Customizing for Contract Accounts Receivable and Payable under **Program Enhancements -> Prepared Enhancements -> Include Additional Fields for U.S. Tax Calculation in Line Items.**

ISU_CA_3: Tax Calculation (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can suppress **optimized calculation of tax amounts in Contract Accounts Receivable and Payable**.

Effects on Customizing

Set the ***Deactivate Optimized Tax Calculation*** indicator in Customizing for Contract Accounts Receivable and Payable under ***Basic Functions -> Postings and Documents -> Basic Settings -> Maintain Central Settings for Posting***.

ISU_CA_3: Special Periods

Use

As of enhancement package 7 for SAP 6.0 (Improvement Note 1738626), you can enter the special period in requests and FI-CA documents that should be posted later during the transfer to the general ledger.

If you have the necessary authorization (activity 140 for authorization object F_KK_SOND), you can enter the special period you want at document header level in requests and FI-CA documents.

Since FI-CA documents can post across company codes, it can be the case that the requested special period (from the document header) is not open in all posted company codes for the document. A check for this at item level therefore only results in a warning message. The system issues an error message only if the special period is not open in any document item.

For postings from other transactions, such as reports or mass activities, you define a default special period, dependent on the posting date, that the system then automatically enters in the document header. In this way, for example, you can prevent the posting period of the clearing document for automatic clearing (FP06 or FPMA) from being earlier than the posting period of the document to be cleared.

This default special period is also proposed as the default special period for manual postings (FPE1/FKKORD1). If you have the necessary authorization, you can overwrite the default special period manually; or you can delete it, if you want to post without a special period. Following a change to the proposed posting date, the system automatically proposes the possibly new default special period that results from the change (unless you manually changed the special period at the same time you changed the posting date). This enables you to check if you really want the entered posting date and the special period.

During the transfer to the general ledger, it can be the case that the special period stored in the document header or totals record is not open in all company codes. Then, dependent on the company code, you can enter an alternative special period in Customizing for the transfer to the general ledger. This setting is only necessary for cross-company-code postings in company codes with different fiscal year variants.

If none of the defined special periods is still open during the transfer to the general ledger, you can enter an alternative special period for the transfer to the general ledger that is dependent on the company code and the requested special period.

However, if none of the possible special periods is open or you do not want to open one, you can still (as before) transfer the totals record by entering a different posting date.

For automatic postings (transactions for which it is not possible to enter a special period), you can also use event 0062 to change the default special period that was determined from the Current Settings, based on any document data (such as the document origin from the document header).

In the document display (FPE2/FPE3), the special period from the document header can also be displayed on line level. Define a corresponding line layout variant for this, where you take into account the possible redetermination of the special period for each company code (through table TFK001W). That means that you display the special period, in which the transfer to the general ledger is to be posted.

You activate the use of special periods in Customizing.

You enter default special periods for the posting date on the SAP Easy Access screen under

Settings -> Current Settings -> Special Periods -> Specify Default Special Periods.

You specify alternative special periods for each company code for the transfer to the general ledger on the SAP Easy Access screen under: **Settings -> Current Settings -> Special Periods -> Define New Determination for Each Company Code.**

You specify the alternative special period to be used for the transfer to the general ledger if the special period is closed, on the SAP Easy Access screen under: **Settings -> Current Settings -> Special Periods -> Define Different Special Period for Transfer.**

Effects on Customizing

Activate the use of special periods by setting the **Special Period** indicator in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Postings and Documents -> Basic Settings -> Maintain Central Posting Settings.**

ISU_CA_3: Locks (R082 / R019)

Use

As of Enhancement Package 7 for SAP ERP 6.0 (Improvement Note 1738630), you can create information for a comment on processing locks (such as the reason for setting the lock) and so make the content easier to process later.

You create the comment for the lock when you create the lock. If you change a lock, you can change the comment. The system logs changes in the history.

When evaluating locks in the SAP Menu under: **Periodic Processing -> for Contract Accounts -> Evaluation of Processing Locks**, you can use the field to make a selection and make comments.

Effects on Customizing

Activate the comment field using a prepared enhancement in Customizing for Contract Accounts Receivable and Payable under **Program Enhancements -> Prepared Enhancements -> Add Comment Field to Lock**.

ISU_CA_3: Contract in Histories (R057)

Use

As of SAP Enhancement Package 7 for SAP ERP 6.00 (Improvement Note 1738631), you can also select by contract in various evaluations and histories.

Write-Off History

Using a prepared enhancement (report RFKK_ENH_VTREF), you can add contract fields to the table of the write-off history. If the written-off item was posted to a contract, the system saves new entries in the write-off history with this contract data.

The initial screen for selecting the returns history now offers selection by contract.

In the SAP Menu, under: **Changeovers in Live System -> Set Contract in Write-Off History**, you can enter the contract data history in existing entries and so enable selection by contract for older entries too.

Collection Items

When selecting collection items, the contract is offered as a new selection field.

Payment Search

The search for user-initiated payments (transaction FP31) now offers selection by business partner, contract account, and contract. You can choose whether these selections apply to the the payment header data (who is paying) or also to the payment item data (whose items are paid).

Returns History

The returns history now offers selection by contract.

Receivables Adjustments and Doubtful Entries

You can use a prepared enhancement (report RFKK_ENH_VTREF) to include contract fields in the tables for receivables adjustments. If the line item was posted to a contract, the system saves new entries for receivables adjustment with this contract data.

The transaction for transfer postings (FPRV) now offers selection by contract, as does the evaluation report for displaying adjusted receivables (FPRA).

In the SAP Menu, under: **Changeovers in Live System -> Set Contract in Adjusted Receivables**, you can enter the contract data in existing entries in the tables for adjusted receivables and so enable selection by contract for older entries too.

Effects on Customizing

You activate selection by contract for the write-off history and receivable adjustments by using a prepared enhancement in Customizing for Contract Accounts Receivable and Payable under: **Program Enhancements -> Prepared Enhancements -> Add Contract to Write-Off History and Receivable Adjustment**.

ISU_CA_3: Enhancements in Transaction FPE2M (R067)

Use

As of SAP Enhancement Package 7 for SAP ERP 6.00, when using the mass change function for documents, you can enter new values for the document items to be changed in a new, single-column table. This table is displayed above the table of document items. Both tables have the same layout. The columns that are ready for input in the table of document items are also ready in the table in which you enter the new values.

In the new table, you can also select fields whose values you want to delete in selected rows of the document item table. To do so, you select the corresponding columns in the new table and initialize the field. During the transfer of new (non-initial) values, the values are deleted when you choose the **Copy New Values** pushbutton.

Effects on Customizing

In the **Mass Document Change** transaction, to offer the option to enter new values in a single-row table with the layout of the table of document items, select the **Enhanced Mass Change** checkbox in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Postings and Documents -> Basic Settings -> Maintain Central Settings for Posting**.

ISU_CA_3: Enhancements in Transaction FPLKA (R047)

Use

As of SAP Enhancement Package 7 for SAP ERP 6.0, you can use the **Only Locks for Open Items** checkbox in **Evaluate Processing Locks** (transaction FPLKA). This causes the program not to select and issue locks for cleared documents.

Note that determination of the clearing status of line items can have a negative effect on program runtime.

ISU_CA_3: Clarification Note for Incoming Payment Clarification (R061)

Use

As of SAP Enhancement Package 7 for SAP ERP 6.0, during clarification of incoming payments from payment lots, a symbol in the new column **Clarif. Note Available** indicates whether a clarification note was created for the given clarification case. The tooltip for the symbol displays the first line of the clarification note.

In the details of a clarification case, the same symbol on the **Clarification Note** tab also indicates a clarification note is available.

As an alternative or in addition to the above, you can have the system show a text column **Clarification Note (1st Line)** in the ALV list. The column then contains the first line of the clarification note. You can use this column to sort the list, for example.

To have the list of clarification cases indicate when there is a clarification note, in the detail display of the clarification case in the SAP Menu under: **Settings -> User Settings**, set the corresponding indicator in the **Settings for Clarification Processing** dialog box.

ISU_CA_3: Foreign Trade Declarations (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can, as part of creating foreign trade declarations, format the reporting data in accordance with the regulations of your country, and store the data in a local file that you can transfer to the responsible authority.

You can format the reporting data in the new event 1982 in the format required by the responsible authority. In the transaction for displaying the reporting data (on the SAP Easy Access screen under *Periodic Processing -> Data for Externals -> Tax Authorities -> Display Transactions for German Foreign Trade Declarations*), you can enter a file path and a prefix that the program uses to create the file name.

For Germany, we provide function module FKK_EVENT_1982_Z4_CSV for exporting the reporting data for form Z4 in CSV format. You enter this function module at event 1982 as an installation-specific module.

ISU_CA_3: Documentation of DataSources (Changed)

Use

Until now, the documentation of DataSources of Contract Accounts Receivable and Payable was delivered with the documentation for BI Content.

As of the following BI Content releases, the documentation of DataSources of Contract Accounts Receivable and Payable is no longer delivered with the BI Content documentation:

- o SAP NetWeaver 7.03 & 7.31 BI Content Add-On 7.47
- o SAP NetWeaver 7.3 BI Content Add-On 7.37
- o SAP NetWeaver 7.0 including EHP 1&2 BI Content Add-On 7.07

Instead, as of enhancement package 7 for SAP ERP 6.0, the documentation of these DataSources is part of the application help for Contract Accounts Receivable and Payable. The documentation can be found there under **Information System**.

ISU_INV_2: Utilities, Convergent Invoicing 2

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can use the business function Utilities, Convergent Invoicing 2 (ISU_INV_2).

With this business function, for the purpose of internally checking invoices or for enabling customers to check their invoices, you can create preliminary invoices without generating postings in Contract Accounts Receivable and Payable or creating central correspondence.

In addition, the display transaction for invoicing documents offers a change mode, in which you can perform the same functions for preliminary invoices as you can in clarification processing.

By using reversal tasks for the reversal of invoicing documents, you can more easily select documents for reversal and decouple the selection of the documents to be reversed from the execution of the reversal.

For more information, see the release note for **Invoicing**.

See also

SAP Library for SAP ERP on the SAP Help Portal at <http://help.sap.com/erp> -> **SAP Enterprise Resource Planning -> SAP ERP Enhancement Package 7 for SAP ERP 6.0 -> Application Help -> <Language> -> Business Functions (SAP Enhancement Package 7 for SAP ERP 6.0) -> Business Functions in SAP ERP -> Industry Business Function Sets -> SAP Contract Accounts Receivable and Payable -> Invoicing in Contract Accounts Receivable and Payable, 02.**

ISU_INV_2: Invoicing (New)

Use

The following functions for invoicing were added in SAP enhancement package 7 for SAP ERP 6.0:

Creation of Preliminary Invoices

For the purpose of internally checking an invoice or allowing the customer to check an invoice, you can create a preliminary invoice, without generating a posting in Contract Accounts Receivable and Payable or centrally generating correspondence to the customer.

You create preliminary invoices using the invoicing function **Creation of Preliminary Invoices**.

Depending on your Customizing settings, you can choose to print a preliminary invoice, or you can create a clarification case for it.

During clarification (on the SAP Easy Access screen under **Convergent Invoicing -> Clarification Worklist -> Clarification Processing**) you can:

- o Simulate the creation of correspondence
- o Create a print request (for each correspondence container)
- o Release the preliminary invoice
When you release a preliminary invoice, you can either start invoicing in dialog mode or schedule the invoicing. During invoicing, the system creates an invoicing document from the invoicing order for the preliminary invoice and posts the invoice in Contract Accounts Receivable and Payable.
- o Reverse the preliminary invoice
The reversal is made in the dialog transaction for the reversal of invoicing documents.

Displaying the Invoicing Document

A change mode has been added to the transaction for displaying invoicing documents. In change mode, for example, you can use the same functions for preliminary invoices as you can in clarification processing. That means that you can simulate the generation of correspondence, create a print request (for each correspondence container), and release or reverse the preliminary invoice.

In addition, you can now display the billable items for the invoicing document on the **Billable Items** tab.

Furthermore, generic object services for invoicing documents (**BOR object type CI_INV**) were added to the transaction.

Reversal Tasks

A reversal task can contain multiple reversal requests for billing documents and invoicing documents, whereby a reversal request refers to only one document.

For reversing a large number of billing and invoicing documents, reversal tasks offer the following advantages:

- o Reversal tasks decouple the selection of the documents to be reversed from the execution of the reversal program.
- o Reversal tasks make it easier to select the documents to be reversed.

You create reversal requests from the SAP Easy Access screen under **Convergent Invoicing -> Reversal Tasks -> Edit**.

For you to be able to reverse the documents contained in a reversal task, you have to release the task there. To do so, you set the **status Released**.

To perform the reversal, on the SAP Easy Access screen, choose **Convergent Invoicing -> Periodic Processing -> Reversal**:

- o **Invoicing Documents**
- o **Billing Documents**
- o **Reverse (Parallelized)**

You can select reversal tasks from the input help for the **Reversal Task** field, which lists all released reversal tasks.

In the transaction for processing reversal tasks, you can also do the following for reversal tasks:

- o Display them
- o Revoke them by setting the appropriate status

Effects on Customizing

Creation of Preliminary Invoices

You make specifications for the creation of preliminary invoices in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Invoicing -> Additional Functions -> Define Preliminary Invoice Category**.

You assign categories to preliminary invoices for the invoicing process under **Convergent Invoicing -> Invoicing -> Additional Functions -> Assign Preliminary Invoice Categories**.

ISU_INV_PP_3: Billing in Contract Accounts Receivable and Payable

3

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can use the business function Billing in Contract Accounts Receivable and Payable, 02 (FICAX_INV_PP_3). You can use this business function to:

- o Archive master agreements
- o Determine the tax account assignment dependent on the country of destination and manage the place of supply of services in the billable items
You thereby meet the requirements of the EU VAT package 2010.
- o Automatically start the generation of classes when importing transports with billable item classes to a target system
- o In Convergent Invoicing, import consumption items from an external system, store them temporarily, and transfer them to a rating system for final rating
- o Manually create and change billable items
- o Manually create and change consumption items
- o In billing in Convergent Invoicing, calculate discounts and charges on billed items
- o For reversals, decouple the selection of the billing and invoicing documents to be reversed from the execution of the reversal
- o Use **master agreements** for business customers
- o In the context of prepaid processing:
 - Change bank data and payment card data in prepaid accounts
 - Display counter values for contracts during the processing of prepaid credit
- o For provider contracts:
 - Enter discounts and charges for each logical provider contract item, and specify a validity period for them
 - Persist IDs in the ERP system when provider contract data is transferred from an external system such as SAP CRM
 - Display counter values from SAP Convergent Charging in the ERP system
- o Process payments for partners using partner settlement
- o Control the rating of consumption from SAP Convergent Invoicing
- o In addition to rerating of consumption items that SAP Convergent Charging rated offline, also perform rerating for consumption items rated online

To increase user-friendliness, Convergent Invoicing has been placed more centrally (at the highest level) in Customizing, on the SAP Easy Access screen, and in the application help.

For more information, see the following release notes:

- o Archiving in Convergent Invoicing
- o Tax Codes for Internal Tax Determination
- o Automatic Generation of Billable Item Classes

- o Data Storage for Consumption Items
- o Entering, Displaying, and Changing Billable Items
- o Entering, Displaying, and Changing Consumption Items
- o Discounts on Billable Items
- o New Events
- o Mass Reversal
- o Master Agreement
- o Prepaid Processing
- o Provider Contract
- o Partner Settlement
- o Rating
- o Rerating
- o Move of Documentation of Convergent Invoicing

See also

SAP Library for SAP ERP on the SAP Help Portal at <http://help.sap.com/erp> -> **SAP Enterprise Resource Planning -> SAP ERP Enhancement Package 7 for SAP ERP 6.0 -> Application Help -> <Language> -> Business Functions (SAP Enhancement Package 7 for SAP ERP 6.0) -> Business Functions in SAP ERP -> Industry Business Function Sets -> SAP Contract Accounts Receivable and Payable -> Billing in Contract Accounts Receivable and Payable, 02.**

ISU_INV_PP_3: Archiving in Convergent Invoicing (New)

Use

Archiving of Master Agreements

Archiving object FI_MKKCAMA can be used for archiving master agreements.

Archiving of Rated Consumption Items

Archiving object FKKBIXCIT4 can be used for archiving rated consumption items.

Archiving of Excepted Billable Items

The archiving object FKKBIXBIT1 is available for archiving billable items with the status **Raw - Excepted** and FKKBIXBIT3 is for archiving billable items with the status **Billable - Excepted**.

Effects on Customizing

Archiving of Master Agreements

Enter the residence times and activate the archiving information structure for master agreements in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Master Agreement -> Archiving**.

Archiving of Rated Consumption Items

Enter the residence time for consumption items in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Archiving**.

Archiving of Excepted Billable Items

Enter the residence time for billable items in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Archiving**.

ISU_INV_PP_3: Tax Code for Internal Tax Determination (Enhanced)

Use

When billable items are transferred to the SAP system from an external system, there is no prerequisite that they have the tax account assignment characteristics (tax code or tax determination code) that are recognized in the SAP system. The SAP system determines these tax account assignment characteristics from the entries in posting area 8123 for all billable items, for which the type of tax determination has the value **01 (Internal Tax Calculation for External Tax ID)**.

To meet the requirement of the EU VAT package 2010, you have to determine the tax account assignment dependent on the country of destination and manage the place of supply of services in the billable items. To achieve this, as of SAP enhancement package 7 for SAP ERP 6.0, you enter the tax-relevant country of destination in posting area 8123.

The SAP system determines the characteristics for tax calculation as described in the following example.

Example

According to the EU VAT package 2010, when determining the place of supply of services, a distinction has to be made between business-to-business (B2B) and business-to-customer (B2C) transactions.

If a service provider established in Germany provides a service in France, the external system in a B2B case determines France as the place of service.

The external system transfers France as the country of destination and transfers the external tax ID to billing in the SAP system in the billable items.

The SAP system uses posting area 8123 to translate the tax ID from the external system into the internal tax code or tax determination code in accordance with the EU tax regulation.

Effects on Customizing

The system makes this derivation using the settings in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Basic Functions -> Billable Items -> Billable Item Transfer -> Account Assignment Derivation -> Define Tax Code for Internal Tax Determination**.

ISU_INV_PP_3: Automatic Generation of Billable Item Classes (New)

Use

As of enhancement package 7 for SAP ERP 6.0, the logical transport object FKKBIXBIT_CONF makes it possible (using an after-import method) to automatically start the generation of billable item classes during the import of the transport to the target system.

At the time when you create the transport request for a billable item class, you can specify if this generation should take place automatically when the transport is imported.

Effects on Customizing

You make settings for the generation of the interface for data transfer in the following activities in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Basic Functions -> Billable Items -> Billable Item Classes**:

- o **Maintain Billable Item Classes**
Here you define billable item classes and their technical properties. For each class, you define the following:
 - The interface that you use to transfer billable items to the system
 - The data store to be used for billable items
- o **Generate Interfaces for Billable Item Classes**
Here you generate the interfaces for transferring billable items and also for storing data for billable items.

ISU_INV_PP_3: Data Storage for Consumption Items (New)

Use

As of SAP Enhancement Package 7 for SAP ERP 6.0, in Convergent Invoicing you can import consumption items from an external system, store them temporarily, and then transfer them to a rating system for final **rating**. Furthermore, you can create new consumption items manually and transfer them for rating to create a billable item.

You can exclude consumption items from further processing (rating) and include them again later.

You can delete obsolete rated consumption items after expiration of a minimum residence time.

For storing data of consumption items, the following functions are available in SAP Customizing for Contract Accounts Receivable and Payable:

- o Configuration of Consumption Item Classes
For the configuration of the interface for the data import, a **consumption item class** describes the technical attributes of the consumption items. You define these properties step-by-step in SAP Customizing for Contract Accounts Receivable and Payable.
- o Generating Interfaces for Consumption Item Classes
To transfer and store data, generate the required objects for a class for consumption items.
The system generates a separate RFC function module for each consumption item class. You use this RFC function module to transfer consumption items for a class to billing in Contract Accounts Receivable and Payable.
For the modules that SAP Convergent Charging uses to send consumption items, you can configure the field names, field lengths, and data types in the interface of the proxy module.
Note
The system stores the consumption items in various tables according to whether the consumption items are rated or unrated. The system stores all unrated consumption items in one table. The system stores rated consumption items in multiple tables for different time periods.
- o Manual Creation of Consumption Items
See the release note for **Manual Creation and Change of Consumption Items**

Effects on Customizing

You make system settings for data storage for consumption items in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Basic Functions -> Consumption Items**.

There you define consumption item classes and their technical properties under **Consumption Item Classes -> Maintain Consumption Item Classes**. For each class, you define the following:

- o The interface that you use to transfer consumption items to the system
- o Data storage for consumption items

Under **Consumption Item Classes -> Generate Interfaces for Consumption Item Classes**, you generate the interfaces for the transfer of consumption items as well as for data storage for consumption items. The system logs the generation and records a

generation history. You can display the generated objects.

You configure field names, field lengths, and data types for the interface for SAP Convergent Charging in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Integration -> SAP Convergent Charging -> Transfer Consumption Items**.

You define the minimum residence time for rated consumption items in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Archiving -> Define Residence Time for Consumption Items**.

ISU_INV_PP_3: Entering, Displaying, and Changing Billable Items (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, there is a transaction you can use to manually create and change billable items. On the SAP Easy Access screen, choose **Convergent Invoicing -> Billable Items -> Enter Manually and Change**. When creating billable items, you can choose to use an existing item as a template to copy field values, or you can create new items. In addition, you can manually revise existing raw item data or billable item data and thereby correct it.

Effects on Customizing

In Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Basic Functions -> Billable Items -> Billable Item Management -> Define Changeable Fields of Billable Items**, you can specify which fields can be changed during a correction.

ISU_INV_PP_3: Entering, Displaying, and Changing Consumption Items (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, there is a transaction you can use to manually create and change consumption items. On the SAP Easy Access screen, choose **Convergent Invoicing -> Consumption Items -> Enter Manually and Change**. When creating items, you can choose to use an existing item as a template to copy field values, or you can create new items. In addition, you can manually revise existing item data and thereby correct it.

Effects on Customizing

In Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Basic Functions -> Consumption Items -> Consumption Item Management -> Define Changeable Fields for Consumption Items**, you can specify which fields can be changed during a correction.

ISU_INV_PP_3: Discounts on Billable Items (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can calculate discounts and charges on billed items in billing in Convergent Invoicing.

You assign discounts and charges in the master agreement at the level of the provider contract or at the level of discount agreements. The system determines and calculates the discounts and charges in billing.

You can flexibly configure discounts and charges as follows:

- o By filtering billed items, you can freely define the basis for the discount or charge (calculation base).
- o It is possible to enter simple absolute values or percentages for the discount or charge; it is also possible to use scale discounts or charges and block discounts or charges (calculation rule).
- o You can also enter a condition for discounts and charges. Conditions can use a separate filtering of billed items. As a result, the basis of the condition can be different from the calculation base.
- o Discounts and charges can have a cycle that differs from the billing cycle.
- o A discount can influence another discount (or a charge another charge). The result can be that the base amounts of following discounts or charges are adjusted.

Examples - Private Customers (Discounts at the Level of Provider Contracts)

- o A telecommunication company grants its customers a monthly discount of 10% on telephone calls, if the number of minutes for all calls in the month exceeds 200.
- o The same company also grants its customers a quarterly discount of USD 10, in addition to the monthly discount, if total usage (telephone calls and SMS) exceeds a threshold of USD 250.

The monthly discount that was already granted is deducted from the total usage (in USD) that forms the basis for the quarterly discount.

Examples - Business Customers (Discounts at the Level of the Master Agreement)

- o A company's head office pays the telephone costs for its subsidiaries. The telecommunication company grants a discount for the head office of 10% on all calls if the usage of all subsidiaries is over USD 5000.
- o The telecommunication company offers a reduced price per minute for the head office, if a minimum usage of USD 5000 is reached in the month. If USD 5000 is not reached, the telecommunication company charges USD 300.

Effects on Customizing

You make system settings for the calculation of discounts on billable items in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Billing -> Additional Functions -> Discounts on Billable Items**.

ISU_INV_PP_3: New Events (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can use the following new events:

- o **0178:** Taxes: Add to Data During Update to External System
- o **0199:** Filter Contracts by Contract Category
- o **0421:** Master Agreement/Filter: Check Test Data for Assignment
- o **0530:** Master Agreement: Enrich Data; Influence Check Status
- o **0553:** Provider Contract: Normalization of IDs
- o **0554:** Provider Contract: Reading of IDs (Migration to ERP)
- o **0560:** Generation of Partner Consumption Items
- o **0561:** Filling of Additional Fields in Partner Consumption Items
- o **0657:** SEPA Direct Debit Pre-Notification: Add to Data Before Saving
- o **0658:** SEPA Direct Debit Pre-Notification: Follow-On Activities After Change
- o **0576:** SEPA Mandates: Mandate Changes After Change of Bank
- o **0771:** Correspondence: Print SEPA Mandate Request
- o **0772:** Correspondence: Generate SEPA Mandate Request
- o **0776:** Correspondence: Print SEPA Direct Debit Pre-Notification
- o **0777:** Correspondence: Generate SEPA Direct Debit Pre-Notification
- o **0949:** Set Account Assignments for Subsequent Postings
- o **1123:** Document: Mass Change - Initialization
- o **1790:** MassAct: Deletion of Table Entries
- o **1791:** MassAct: Deletion of Table Entries for Shift Parameters
- o **1857:** MassAct: Delete Outbound Interface Trigger
- o **1858:** MassAct: Outbound Interface Delete Triggers, Parameters
- o **1892:** MassAct: Adjustment Records for Partner Settlements
- o **1893:** MassAct: Adjustment Records for Partner Settlement (Shift)
- o **1894:** Determination of Adjustment Amount for Partner
- o **1896:** Subsequent Introduction of Account Assignments
- o **1897:** MassAct: SEPA Prenotification
- o **1898:** MassAct: SEPA Prenotification, Shift Parameters
- o **1982:** Foreign Trade Declaration: Data Export to Local File
- o **5706:** SAP CC: Business Relationship with Bus. Partner (B2B/B2C)
- o **6534:** Requests: Propose Alternative Currency
- o **6750:** Mass Act: Interval Function Module for Mass Activities
- o **8175:** BIX: Analyze and Enrich Consumption Items
- o **8182:** BIX: Mass Activity: Rating

- o **8183:** BIX: Mass Activity: Move Rating Parameters
- o **8187:** Mass Activity: Partner Activation
- o **8188:** Mass Activity: Move Partner Activation Parameters
- o **8189:** BIX: Mass Activity: Perform Rerating
- o **8190:** BIX: Mass Activity: Move Rerating Parameters

Effects on Customizing

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

ISU_INV_PP_3: Mass Reversal (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, for reversal, you can decouple the timing of the selection of the billing and invoicing documents to be reversed from that of the actual execution of the reversal. To do so, you create reversal requests, which you bundle together into reversal tasks. A reversal task can contain both billing documents and invoicing documents. Furthermore, a document can be contained in more than one reversal task.

For you to be able to reverse the documents contained in a reversal task, you have to release the reversal task. Then you execute the reversal task. You do so by using the existing transactions for reversing billing documents and invoicing documents.

For parallel reversal of billing documents, you can use the new transaction FKKINVBILL_REV_M (on the SAP Easy Access screen under **Convergent Invoicing -> Periodic Processing -> Reversal -> Reverse Billing Documents**). A new option for reversing billing documents has been added to the existing transaction for parallel reversal of invoicing documents (FKKINV_REV_MA). The intervals are created based on the reversal requests of a reversal task.

You can access the mass reversal of billing and invoicing documents from the SAP Easy Access screen under **Convergent Invoicing -> Periodic Processing -> Reversal**.

In dialog mode, you reverse billing documents from the SAP Easy Access screen under **Convergent Invoicing -> Billing Documents -> Reverse**. For invoicing documents, choose **Convergent Invoicing -> Invoicing Documents -> Reverse**.

ISU_INV_PP_3: Master Agreement (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can use master agreements for business customers.

1. Definition

A master agreement represents a contractual agreement between a provider and a customer, in which the fundamental elements and conditions for dependent individual contracts (provider contracts) are laid down. In addition, you can agree on rules for handling the business activity that arises from these individual contracts.

1.1 The Most Important Elements of a Master Agreement

The master agreement can contain agreements on products, prices, discounts, and the procedure for invoice creation. It also can contain the additional parties (represented by business partners), who can sign individual contracts under the conditions of the master agreement. Below are more details on the components the master agreement can contain:

- o A customer-specific list of products to which the conditions of the master agreement apply. These can be both standard product numbers as well as custom product numbers and product names. Products often represent the right to use certain services of the provider at specially defined prices.

Example

The right to use telecommunications services at specially agreed basic fees and usage fees.

In this case, products relate to a rating and charging plan that is used in SAP CC (Convergent Charging) for determining prices for services used.

- o A list of all parties (business partners) that are authorized to sign individual contracts that refer to a master agreement.
- o Rules that specify which business partners are allowed to order which products.

The components listed up to now are used to support and monitor the later signing of individual contracts, when they refer to the master agreement. Accordingly, this data is needed primarily in SAP CRM, and you enter and maintain this data there. The elements that are also needed in SAP ERP are replicated automatically. These are primarily the list of products and the business partners that are included in the master agreement.

In SAP ERP, you add the data to the master agreement that is needed for issuing invoices or for subsequent discounting. This data is stored in the form of agreements. Three types of agreement are supported in the current version:

- o Agreements for issuing invoices
- o Agreements for additional invoicing lists
- o Agreements for subsequent discounting

All agreements consist of a procedure specification, in which the rules for execution are defined (such as control parameters for creation of invoices or parameters for calculating and distributing discounts), and a validity area, in which you specify the billable items for which the agreement applies.

1.2 Agreements in the Master Agreement

First the structure of validity areas is explained, then the execution rules for each agreement type.

1.2.1 The Validity Area

A validity area describes which billable items belonging to a master agreement are to be taken into account in a given agreement. 'Billable item of a master agreement' means that the billable item belongs to one of the individual contracts that was signed with a reference to the master agreement.

You need to define which items belong to the validity area and which do not. To do so, you enter conditions that relate to attributes contained in the item, or which can be derived from attributes of the item.

Example

The contract partner is contained as a business partner in the item. The product is normally not contained in the item. However, the item contains the contract number of the provider contract along with the contract item, so the product number can therefore be determined from the contract master data.)

We expect the attributes 'contract partner' and 'product' to be used especially frequently for describing the validity area. Therefore, we provide special simplified handling for these two attributes, whereas all other attributes have generic handling. The solution is as follows:

- o For each agreement, you can enter a list of business partners that are to be taken into account. On the other hand, you can list the business partners that you do not want to be taken into account.
- o For each agreement, you can enter a list of products that are to be taken into account. On the other hand, you can list the products that you do not want to be taken into account.
- o You can enter one or more filters that can be used to include or exclude items based on other attributes. A filter represents a set of selection options. You enter these selection options similarly to the way you enter selection options when starting a report.

The selection options relate to fields in the billable item. Therefore, you cannot use filters on derived attributes (such as in the example given for the product number, which could be derived using the contract item).

- o You can register function modules that decide if an item should be considered or if it should be excluded. This enables the system to also consider derived attributes when making the decision to include or exclude items.

To simplify processing in the validity area in certain situations, you can group both business partners and products in the master agreement. Grouping is helpful if you need to enter the same list of business partners or products in multiple agreements. Instead of entering each one separately, you define a group containing the business partners or products, and then simply enter the group in the agreements.

You can also enter a time limit on the options for restricting the validity area mentioned so far. You can enter a start and end date for each option. The restrictions thereby apply only for billable items that arose within a specified time period. You can specify this time period when you assign:

- o Partners or products to a group
- o Partners, products, groups, filters or function modules to an agreement

For each billable item, the system then checks which assignments are valid. The system uses the date (field BIT_DATE) of the item for the comparison. This date indicates when the event took place that caused the item.

Example

Business partner 4711 is assigned to agreement DISC1 starting from January 1, 2013.

Agreement DISC1 governs a subsequent discount on telecommunications services. The business partner makes 2 telephone calls, one on December 31, 2012 and one on January 1, 2013. The first phone call is not considered during calculation of the discount, since the business partner was not assigned to the discount agreement until January 1, 2013. The system considers the second phone call for the discount.)

In addition to placing a time limit on the assigned business partners, products, filters, and function modules, you can also agree on an allowed time period for the entire validity area. There are two date fields in the agreement for this purpose. There you can specify from when and until when items can be assigned to the agreement.

Example

As the result of later negotiations relating to the master agreement, it is agreed that you grant a discount for certain items starting from January 1, 2013. Instead of now setting the starting date January 1, 2013 for each time you assign a business partner, product, and so on, it is enough to set this date once in the agreement.)

Note

There are special considerations that apply to the validity area for agreements for invoicing lists. These are explained in section 1.2.5.

1.2.1.1 The Validity Area - Assessment of Complex Conditions

For defining the validity area, you can make entries in the following categories:

- o Business Partners
- o Products
- o Filters and function modules (for other restrictions)

. A billable item qualifies for the agreement if it meets the criteria in all three categories. If you do not make any entries for a category, it means that there are no restrictions for that category.

Example

If you make no entries in the **Business Partners** category, then billable items for any business partner can qualify.

In the **Business Partners** category, you can enter individual business partners or groups. You can also specify if the related partners are included or excluded. It is possible to make contradictory entries. Therefore the system prioritizes the entries internally. The following sequence of priorities applies here:

- o Priority 1: Business partner was excluded explicitly
- o Priority 2: Business partner was included explicitly
- o Priority 3: Business partner was excluded by means of a group
- o Priority 4: Business partner was included by means of a group

Examples

Business partner 4711 is contained in groups G1 and G2. The following scenarios are possible:

Group G1	Included (Priority 4)
Partner 4711	Excluded (Priority 1)

--> Items with partner 4711 cannot qualify

Group G1	Excluded (Priority 3)
----------	-----------------------

You can use the invoicing category to control the selection of the billing form, the grouping of items, and distribution to several invoices, among other things. In an invoicing run, multiple invoices can result from an invoice agreement.

- o The **billing cycle**, which specifies the length of the periods to be billed. The following also play a role in addition to the billing cycle: the **end date of the period** and a **scheduling characteristic** that is used to schedule the actual date of invoice creation.
Example
The billing cycle can be monthly, the last day of a period to be billed is always the 15th of the month. Using scheduling and the scheduling characteristic, the system determines that invoices are created on the 17th of the month.
- o An **invoice recipient** and a **contract account of the invoice recipient**. These have to be entered if the invoices are not to be posted to the contract accounts of the contract partners, but are to be posted instead to a separate, central contract account. If you use the option of a central contract account, you can also select the **Statement** field. Then each contract partner receives an invoice extract showing the items belonging to him or her that were contained in the total invoice.
- o In cases where the invoices are posted to the contract accounts of the individual contract partners, but are sent to a different address, you can also enter a business partner in the **Invoice Sent To** field. If this business partner has several addresses, you can also decide if a particular address is used, or if the system uses the address that is designated as the standard address.

You can group several invoice agreements together. To do so, you first create an agreement that contains the control parameters you want to use. Then you create additional agreements in which you enter the first agreement as a higher-level agreement. The effect is the same as if you had entered several validity areas for the first agreement. Using higher-level agreements, you can represent more complex conditions for partners and products, without having to use filters or function modules.

Example

The group headquarters should receive an invoice containing all services related to product P1 both that it used itself, as well as those services relating to P1 of its subsidiaries. You define an invoice agreement **HQ** with the necessary control parameters and restrict the validity area to the business partner that represents the group headquarters. In addition, you create invoice agreement **HQ_1** that refers to **HQ**. You restrict the validity area only to product P1.

1.2.4 Agreement for Discounting (Discount Agreement)

Here you make agreements regarding subsequent discounts. These are discounts that are not applied immediately during the rating of individual items, but are instead discounts that are given subsequently and often cannot be calculated until later.

Example

Discounts scaled based on volume, for example 3% discount for usage-dependent charges if the total amount for the month exceeds 200.00 dollars, and 5% discount if 500.00 dollars is exceeded.

The discount agreement not only controls the calculation of the discount, but also the distribution of the discount, if the discount is not received by the actual invoice recipients.

Example

If the invoice amount for all contracts of a master agreement exceeds 20,000 dollars over the course of a month, then a discount of 5% is granted. However, this discount does not go to the invoice recipients, but is instead credited to the group headquarters.

The following summarizes the entries that can be made in a discount agreement:

- o **Discount key** that is used to control the calculation of the discount. You define discount keys in Customizing. They also control the behavior of the system when multiple discounts are to be applied to the same items. You use the priority to specify the sequence in which discounts are calculated. You can also specify if previously calculated discounts reduce the base amount for discounts that follow.
- o **Alternative Recipient** You only need to make an entry here if the discount is not distributed proportionally to the business partners on whose items the discount was calculated. If you do make an entry here, you also have to enter a **contract account** for the posting.
- o **Calculation Level.** The calculation level specifies if the calculation is made for the entire agreement, for each contract partner, or for each contract. For a scale discount, this difference is important, since the base amounts become smaller when the discount is calculated on smaller units. This means that it is possible that other percentages may be valid than for a calculation at the level of the agreement.

Note

All billable items must have a business partner and a master contract account. For discounts to be granted, the system also creates billable items that are called discount base items in this context. These items contain the business partner for whom the master agreement was created. In addition, a master contract account is needed. Therefore, you have to enter a contract account in the header of the master agreement if discount agreements are to be used.

1.2.5 Agreement for Creating Invoicing Lists

An invoicing list is a summary of multiple invoices or parts of invoices in the form of additional correspondence.

Example

Once a month, the group headquarters receives a summary of all invoices that were sent to its subsidiaries.

You enter the following data in the agreement:

- o The **recipient of the invoicing list.** You enter a business partner number here. For technical reasons, a **contract account number** is also required. However, the system determines the contract account number automatically.

Since the creation of the invoicing list is a function of invoicing, the following entries are also required:

- o The **invoicing category**, which is itself a part of the control parameters (similar to the situation for invoice creation)
- o The **billing cycle**, which specifies the intervals in which invoicing lists should be created.

For invoicing lists, you cannot restrict the validity areas by products or by other general criteria (filters and function modules). You can restrict the business partners. You can also restrict the invoicing list to certain invoice agreements.

Example

Different services are billed using two separate invoice agreements, INV1 and INV2. Headquarters should receive an invoicing list for all invoices that were created using INV1 and that were sent to German subsidiaries. In this case, you restrict the business partners to those representing German subsidiaries, and at the same time you restrict to invoice agreement INV1.

The time restriction for invoicing lists is not applied directly to the individual items to be billed. Instead, the system evaluates the invoices that are created for the master agreement. For

each invoice, the system creates a virtual item for each business partner involved (an invoice can relate to more than one business partner). This virtual item contains:

- o The business partner
- o The latest date of all billable items belonging to the business partner
- o The invoice agreement that was used to create the invoice

If this virtual item qualifies for an agreement for invoicing lists, then the system considers all related billable items in the invoicing list that is created.

Example

The items of an invoice come from the time period from June 28, 2012 to August 3, 2012. The most recent item is from August 3, 2012. For all invoicing lists in the master agreement, the system then checks if the date August 3, 2012 is contained in the validity period.

1.3. Processing of Master Agreements

There are transactions for displaying and changing master agreements in the ERP system. There is also a transaction that provides an overview of the existing master agreements.

A transaction for creating master agreements is available, but is not needed in a live system, when master agreements are created in CRM and replicated to the ERP system.

1.3.1 New Partners and New Products

When you process master agreements in the ERP system, you are made aware of business partners and products that were added in the CRM system and then replicated. The new partners and products have the status **To Be Checked**.

You must make this check manually. When doing so, you have to decide if the new partners or products should be added to existing groups or agreements, or if they should be excluded. Once you have made all changes that need to be made, you confirm this by resetting the status **To Be Checked**.

The **Revision Status** field in the master agreement specifies if the master agreement is being revised and if billing and invoicing are therefore temporarily locked for this master agreement. You set the **Revision Status** and enter a related comment manually when you change a master agreement. You can also have the system set these two fields automatically using event 0530, when changes to the master agreement are replicated from a feeder system (such as CRM).

There is copy function available for adding partners and products to groups and agreements. You can use this function if you want a new partner or new product to be treated exactly the same as a partner or product that already belongs to the group or agreement.

There is an evaluation transaction for master agreements that you can use to create a list of master agreements that meet various selection criteria. You can also use this transaction to select master agreements that contain business partners or products that are to be checked. This enables you to quickly access those master agreements where follow-up processing is necessary.

1.3.2 Changes to Execution Rules

If you want to change execution rules, you should distinguish between the following:

- o You want to correct parameters that were entered incorrectly:
In that case, change the parameters of the affected version.
- o You want to change a process starting from a certain date:
First restrict the current validity period of the process. It has to end on the day before the new rules should take effect. Now create a new version. This version should normally be valid until further notice, that is, formally until the date 12/31/9999. There

you enter the parameters that want to change (for example, a new invoicing category or a new invoice recipient).

Note: Before invoice creation, the preparatory step of **billing** takes place. The agreements in the master agreement are partially interpreted already during **billing**. To ensure that your new settings are completely taken into account the next time invoices are created, if billing already took place, you have to delete the billing for affected items and execute billing again. The system takes the new settings into account automatically in the next billing run. During invoice creation, the system checks that no additional reversals are currently necessary for billing that already took place.

1.3.3 Where-Used List for Partners and Products in Master Agreement

In the list of partners or products, select an entry and choose the **Where-Used List** pushbutton. In a dialog box, you see two views of the where-used list.

On the **Direct Assignment** tab, you see the groups and agreements that the selected object is directly assigned to.

On the **Agreements** tab, you see the agreements, in which billable items for the selected partner or product can appear. The system evaluates here all assignments made by means of business partners, business partner groups, products, and product groups. The system is not able to evaluate additional conditions here that are realized using filters or function modules.

1.3.4 Direct Input

The function module for creating, changing, and reading data using direct input is: **VKK_CAMA_MAINTAIN_DI**.

1.3.5 BAPIs

The following RFC-capable function modules are available:

- o **BAPI_MASTERAGR_BASIC_DATA_CRE**
- o **BAPI_MASTERAGR_BASIC_DATA_CHG**
- o **BAPI_MASTERAGR_EXISTENCE_CHECK**
- o **BAPI_MASTERAGR_GET_DETAIL**

1.4 Use in Individual Contracts

The settings that you make in a master agreement are not actually used until you sign individual contracts (provider contracts) with your customers that refer to the given master agreement. The system then processes the billable items of the provider contract in accordance with the settings made in the master agreement.

The provider contract contains the new fields **Master Agreement** and **Custom Product** in the contract item. These fields establish the connection to a master agreement.

You create a custom product in the master agreement in SAP CRM based on a standard product. If the standard product is a complex product (saleable product with product components), then the product components can also be adopted in the master agreement in SAP CRM. Only the saleable products are included in the list of products that is distributed to SAP ERP; product components are not distributed to SAP ERP.

When a provider contract is signed, the product components can, under certain circumstances, be found in the contract items. If the provider contract was signed in the context of a master agreement, then the contract items also refer to the custom product. The contract items, for which product components were created, also refer to the custom product.

Example

The complex product MOBILE has the product component PARTNERCARD. The product is

added to master agreement MA01 as a custom product and receives the custom product number MOBILE_MA01. Provider contract PROV01, which was signed with reference to master agreement MA01, has the following contract items:

- o Contract item 1 contains **Master Agreement** MA01, **Product** MOBILE and **Custom Product** MOBILE_MA01
- o Contract item 2 contains **Master Agreement** MA01, **Product** PARTNERCARD and **Custom Product** MOBILE_MA01

1.5 Agreements of Master Agreements in Billing and Invoicing

Billing and invoicing evaluate the entries for the agreements in the master agreement. However, the fields for agreements in the master agreement are not automatically available in the billing document and invoicing document. If you want to use master agreements, you have to add these fields to the billing document header and invoicing document header using a prepared enhancement.

Effects on Customizing

You make system settings for master agreements in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Master Agreement** in these activities:

- o **Define Number Range**
To ensure successful replication of master agreements, you have to specify number ranges here. You need number range 01 with internal number assignment and number range 02 with external number assignment.
Make sure that the number ranges are synchronized with the number ranges used by SAP CRM.
- o **Configure Field Attributes per Activity**
You specify here, depending on the activity, which fields are required, displayed, or hidden during master data maintenance.
- o **Specify Authorization Types**
Here you define new authorization types that are used to control maintenance authorization.
- o **Define Field Groups for Authorization Check**
For each field group on the master agreement, you can define here if it is checked for authorization.
- o **Define Filters for Billable Items**
Here you can define filters that you can use later when defining agreements in master agreements. You use filters to restrict the validity area.

You add the fields for using master agreements in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Program Enhancements -> Prepared Enhancements**.

ISU_INV_PP_3: Prepaid Processing (New)

Use

As of SAP Enhancement Package 7 for SAP ERP 6.0, the following new processes for Prepaid Processing are available:

Enhancement of the Transaction for Changing Payment Data

In the SAP Menu, under: **Master Data -> Business Partners -> Change Payment Data**, you can now change bank data and payment card data in prepaid accounts.

The system treats prepaid accounts like contract accounts, except that changes to payment data in a prepaid account has no influence on payments. Prepaid accounts only contain information about incoming payments. You cannot select prepaid accounts in that case.

The following fields were added to the rows listed under contract accounts and prepaid accounts:

- o **Prepaid Account**
- o **Payment By**

The fields contain the corresponding information from the prepaid account.

Enhancement of Transaction for Processing Prepaid Credit

The new **Display Counter Values for Contracts** action is available for processing prepaid credit (see SAP Menu: **Account -> Prepaid -> Process Prepaid Balance**).

When you choose this function, the system determines the assigned items of the related provider contracts for the selected prepaid account and displays the counters relevant for the prepaid scenario.

For more information on counters, see the release note for the **provider contract**.

Effects on Customizing

The activity **Define Default Values for Payment Methods** (in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Contract Partner -> Changes to Payment Transactions**) was enhanced for prepaid accounts. You can also specify here for prepaid accounts which payment data is used after the deletion of bank details or a payment card in transaction **Change Bank Data**. You can use the payment data from the contract account or specify that no automatic payment is allowed any more.

ISU_INV_PP_3: Provider Contract (New)

Use

In SAP enhancement package 7 for SAP ERP 6.0, the following additions were made to the functions of the provider contract:

Discounts and Charges

You can define discounts and charges for each logical provider contract item, and specify a validity period for them. You assign discounts and charges by using one or more **discount/charge keys**. Billing evaluates the defined discount- and charge key and calculates the granted discounts and charges.

You can assign the same discount- or charge key more than once to a contract item, however the validity periods of the assignments are not allowed to overlap.

The discounts and charges are not linked technically with the contract item using the **item number**, but are instead linked using the **external GUID of the provider contract item**. For this reason, changes to discounts and charges do not result in a change of the contract item itself. That means that changes to discounts and charges do not lead to the creation of new contract items.

IDs on Provider Contract Items

In SAP enhancement package 6 for SAP ERP 6.0, IDs on provider contract items are known only in SAP CRM and are distributed to SAP Convergent Charging, when they are relevant for **accesses** there. As of SAP enhancement package 7 for SAP ERP 6.0, when provider contract data is transferred from an external system such as SAP CRM, IDs are now also persisted in the ERP system. To transfer IDs for already existing provider contracts from an external system, you can migrate them to the SAP ERP system (see SAP Easy Access screen under **Changeovers in Live System**). Once a complete migration has taken place, the system searches only within ERP when searching for prepaid accounts using their reference (**event 0965**). During the internal search in ERP, the search also considers historical results for IDs.

You can use an **ID** (for example, for a telephone connection or SIM card) to identify a provider contract item. When data is transferred from the CRM system, the ERP system internally creates a group of IDs for each contract item. This group contains the transferred ID. Instead of assigning the ID, the ERP system assigns the group of IDs to the provider contract items. Changes to IDs result in an update of the group of IDs that they belong to. However, there is no change to the contract item that the group of IDs is assigned to, and no follow-on items result from changes to IDs.

Example

1. The ID 0179-555666 is assigned to item 1 in contract 1234. As the group of IDs, the Contract Accounts Receivable and Payable system internally assigns group of IDs 1.
2. SAP CRM transfers an update. According to the update, as of May 9, 2012, the contract item is no longer assigned the ID 0179-555666, but is assigned 0179-555777 instead. Since this change is not a change of the item data itself, item 1 remains and is still linked to group of IDs 1. Within the group of IDs, the ID 0179-555666 is valid until May 8, 2012. Starting on May 9, 2012, the ID 0179-555777 is valid.

The system stores IDs on the database in their normalized form. Event 0553 is provided for the normalization of IDs. For searches using IDs, only their normalized form is used.

Counters on Provider Contract

Counters can track the number of already used units and the number of units that are still

available (for example, number of free SMS or voice minutes still available). You maintain counters at the level of contracts and contract items. Counters can be periodically reset to an initial value. They can also be changed due to usage and refills.

Up to SAP enhancement package 6 for SAP ERP 6.0, counters are only found on the provider contract in SAP Convergent Charging.

As of SAP enhancement package 7 for SAP ERP 6.0, you can display counter readings from SAP Convergent Charging for provider contracts in the ERP system in transaction FP_VTC (on the SAP Easy Access screen under **Master Data -> For Integration with Rating and Charging -> Provider Contract -> Display Counter Values**).

For this to take place, the system processes the new **0555**, which determines all counters for a provider contract. Depending on your selection criteria in transaction FP_VTC, the system might select only certain contract items. If that is the case, the transaction only displays the counters for these contract items or the affected contract header.

You can restrict the display of counters by grouping counters into views in Customizing. You can choose these views in transaction FP_VTC.

Effects on Customizing

IDs on Provider Contract Items

Enter the types of IDs that you want to allow in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Provider Contract -> Define the Type of ID**. Also specify which types of IDs are relevant for searching for prepaid accounts or partner agreements.

Counters on Provider Contract

In Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Provider Contract -> Counter on Provider Contract**, enter the

- o Counters that you need for display in the ERP system
- o Counters from the rating and charging system and their assignments to the ERP system
- o Counter groups for restricting the display of counters

ISU_INV_PP_3: Partner Settlement (New)

Use

Revenue Sharing and Partner Settlement

If an end user uses services or purchases products of a service provider, and these services or products use rights, infrastructure, services or products of a partner, then payment is due to this partner. In these cases, a portion of the amount that you invoice to the end customer has to be paid to one or more partners.

The overall solution for such business transactions is called **Revenue Sharing and Partner Settlement** or simply **Partner Settlement**.

Scenarios

Depending on the role and the importance of the partner, either the service provider determines the amount to be paid, or the partner does. In the first instance, the partner receives credit memos; in the second instance, the service provider receives invoices from the partner.

If the service provider creates credit memos, then it is necessary to represent the process chain from the determination of the individual amounts that are to be credited to the periodic creation of credit memos. This includes rules that determine if the partner is subject to a partial default risk in case of nonpayment of the end customer.

The functions that are available for partner settlement as of enhancement package 7 for SAP ERP 6.0 enable the scenario in which the service provider undertakes the calculations and creates credit memos for the partner.

Partner Settlement Based on Rating and Charging, Billing and Invoicing

Partner settlement uses processes analogous to those in the billing and invoicing of end customers, and thereby offers comparable flexibility.

Based on the billable items that are created when an end customer uses services, the system creates items for each partner involved. These items go through the processes of rating, charging, billing and invoicing to ultimately result in a credit memo. These items are called **consumption items for partner settlement**. From the **consumption items for partner settlement**, the system generates **unrated items** and transfers them to the rating and charging system. The responsible item of the **partner agreement** is determined there. By means of this item, the system determines which **partner product** was used, and which **charge plan** is to be applied for the partner. The result is that billable items are created for the partner. These billable items go through the processes of billing and invoicing, and ultimately result in the creation of credit memos.

In the overall process, the following objects of the partner and end customer are comparable:

Partners	End Customers
Partner products	[End customer] products
Partner agreements	Provider contracts
Charge plans [for partners]	Charge plans [for end customers]

There is no technical difference in SAP Convergent Charging between charge plans for partners and for end customers.

Objects of Partner Settlement

You create the following objects in the CRM system and replicate them to the ERP system:

- o Partner product
- o Partner agreement

For more information, see the Release Note for business function CRM_PROVORDERINT_2 for enhancement package 3 for SAP CRM 7.0.

Objects of Partner Settlement in the ERP System

For partner settlement, the same objects are used as for end customers, but in a form that is tailored to partner settlement. The objects are replicated using the mechanisms used up to now, which were also used for the replication of end customer objects (product replication using middleware, partner agreement replication using Common Object Layer).

For products, you can use the new field **Use of Product** in Contract Accounts Receivable and Payable to specify if the product is for use in provider contracts or in partner agreements. If you specified that a product is for use in partner agreements, you cannot use it at the same time in provider contracts. The opposite also applies. You can process and display products on the SAP Easy Access screen under **Master Data -> For Integration with Rating and Charging -> Product**.

You distinguish between provider contracts and partner agreements by means of the **Contract Category** field. From a technical perspective, they are both provider contracts, and the system stores their data in the same tables. The divisibility in the Business Data Toolset makes it possible for different transactions to be offered on the basis of different values in the **Contract Category** field. The result is that the system provides a tailored context for partner agreements (for example with specific field names). (The same technology is used as for role-specific transactions for the business partner, such as transaction FPP3 for the business partner.)

The **Contract Category** field is not visible on the interface. However, it is available in the contract header during replication and can be set as needed. The contract category also controls which fields are available.

For partner agreements, the **Partner Settlement Rule** field was added to the contract item. You use the partner settlement rule to configure partner settlement (such as specifying when settlement takes place and who bears the default risk).

You can process and display partner agreements on the SAP Easy Access screen under **Master Data -> For Integration with Rating and Charging -> Partner Agreement**. For provider contracts of the end customer, you continue to use the transactions on the SAP Easy Access screen under **Master Data -> For Integration with Rating and Charging -> Provider Contract**.

Generating Consumption Items for Partner Settlement

The system generates consumption items for partner settlement when the billable item is created for the end customer. It must be possible for the system to recognize from the billable item if partner items need to be generated and for what reason.

The starting point is an attribute of the billable item, the **Partner Settlement Category**. There you enter a key that categorizes the transaction from the viewpoint of partner settlement.

Example

MSDL for music download or SERV for service call.

You can define these keys in Customizing to suit your requirements. You can assign one or more **Reasons for Partner Settlement** to each category. A payment can be due the partner for each assigned reason.

Example

For music downloads, you create the reasons ROYA (for performance royalties) and MECH (for mechanical royalties).

You can also create keys for reasons as needed in Customizing. Once categories and reasons are defined, you assign them in another table. With this assignment, you specify which reasons can be considered for which transactions (represented by the **Partner Settlement Category**).

You need to enter a function module for each reason. The function module decides in each case if a **Consumption Item for Partner Settlement** is to be created. If an item is to be created, you also have to set the main characteristics of this item in this function module.

For the rating and charging system to determine the item belonging to a partner agreement, you have to enter a **consumer ID of the consumption item** and a **service ID of the consumption item**. This procedure is technically equivalent to the rating and charging of end customers. For example, the telephone number of the caller is used as the consumer ID of the consumption item, and the service ID of the consumption item is a category such as SMS or VOICE.

Examples for possible entries for partner agreements can be found in the section on examples provided by SAP. You can also set additional fields as needed. For instance, many price models require that the amount charged to the end customer has to be adopted as information in the **Consumption Item for Partner Settlement**. You can adopt further attributes in the **Consumption Item for Partner Settlement** according to your individual requirements using the new event 0561.

It can be the case that you use your own program logic for generating consumption items for partner settlement and are not able to use the described examples for your processes. In that case, you can implement a customer-specific function module that you can register for the new event 0560. In that case, using the **Partner Settlement Category** as the starting point is optional.

To feed consumption items for partner settlement to rating, sent them to SAP Convergent Charging using the transaction **Perform Rating** (from the SAP Easy Access screen, choose **Convergent Invoicing -> Periodic Processing -> For Consumption Items**). The resulting partner items are received and processed by SAP Convergent Invoicing as billable items for partner settlement.

Structures, Interface Components, and Fields for Partner Settlement

The basis for partner settlement are the customer items and the partner items linked to them. The customer items are viewed as primary items and partner items as secondary items; partner items contain a reference to the customer items that they belong to.

You need the following interface components in order to use partner settlement. Activate:

1. In the billable item class of the customer, the interface component **Partner Settlement: Basic Data of Customer Item** (CUST_ITEM)
2. In the billable item class of the partner, the interface component **Partner Settlement: Basic Data of Partner Item** (PARTNER_ITEM)
3. In the consumption item class of the partner, the interface component **Partner Settlement: Basic Data of Partner Item** (PARTNER_ITEM)

If you activate these interface components, the system automatically adds the necessary fields to the structures of customer and partner items.

Examples Provided by SAP

SAP provides examples relating to the following areas:

- o Telecommunications: Calls to service numbers
- o Downloads: Music downloads

Example 1

Country-specific fees (such as GEMA for mechanical royalties in Germany)

SAP provides function module **FKK_PTSET_SAMPLE_MECHANICALS** for this example.

Customizing table TFKPS_USERID_CTR is used for determining the **consumer ID**. You can use the key GEMA, for example, as the **consumer user ID of the consumption item** in this example.

Example 2

Fees that have to be paid to an individual rights owner (such as an author or composer).

The assumption here is that the billable item for the end customer already contains

information from which it is possible to determine the rights owner. SAP provides function

module **FKK_PTSET_SAMPLE_ROYALTIES** for this example. Customizing table

TFKPS_USERID_REF is used for determining the consumer ID of the consumption item. If the rights owners are music labels, for example, you can use the name of the music label or an abbreviation as the consumer ID of the consumption item.

Example 3

Fees to be paid to the operator of a service number

In this example, the system determines the consumer ID of the consumption item from the

number called. It uses Customizing table TFKPS_USERID_SNR for this. Due to the large

number of service numbers and the fact that they are continually being updated, a table is

used that you do not maintain in Customizing. The function module in this example is

FKK_PTSET_SAMPLE_SERVICECALL).

For more information, see the documentation of the function modules mentioned here.

It is possible for you to use these function modules and tables directly. However, for live

operation, we recommend that you use copies of the function modules, since SAP reserves

the right to enhance the examples and thereby change the function modules and tables.

Configuration of Partner Settlement

You specify the following using the partner settlement rule:

- o The point in time at which the partner shares are settled
- o Whether a preliminary invoice is created
- o Who bears the default risk
- o The payment mode

For entering partner settlement rules when creating a partner agreement in SAP CRM, see

the documentation under <http://help.sap.com> -> **SAP Business Suite -> SAP Customer Relationship Management -> SAP CRM -> SAP Enhancement Package 3 for SAP CRM 7.0 -> Application Help -> English -> SAP CRM for Industries -> Functions for Provider Sales and Contract Management -> Partner Agreements.**

Time of Settlement of Partner Shares and When Amounts Are Due

Using the **partner settlement rule** (PTSĐT), you specify at what point in time the partner

shares can be settled. The system supports the following three options:

- o **Option 1**
The time of settlement of the partner items is independent of the time of the creation of the customer invoice.
- o **Option 2**

Partner items are not allowed to be settled before the customer invoice is created.

o **Option 3**

Partner items are not allowed to be settled before the due date of the customer invoice.

If you use options 2 and 3, partner items are automatically locked for billing when they are created, by means of the system setting their **target date for billing** to 12/31/9999. When the customer invoice is created, an order for release of these partner items is created (table DFKKPARTREL).

You release partner items that have a billing lock using transaction FPPARTREL_MA on the SAP Easy Access screen under **Convergent Invoicing -> Periodic Processing -> Partner Settlement -> Release Partner Items for Settlement**. Depending on your choice, the mass activity selects the partner items to be released either directly or using the release orders created in options 2 and 3. It then sets the target date of billing, depending on the option, to the date the customer invoice was created or to the due date of the customer invoice.

Lack of Payment by End Customers

Using the **partner settlement rule**, you can also specify if your partner bears the risk in the case of lack of payment. If this is the case, then amounts that have already been credited are reduced again, when lack of payment has been determined or is to be expected. The clearing of receivables expected from the end customer triggers the appropriate reductions; and you can also choose to have dunning of the end customer (as part of dunning activities) trigger reductions. If payments for the receivables are subsequently received from the end customer, the system makes another adjustment, this time to the partner's benefit.

Clearing (and optionally dunning) initially only generate a trigger. The actual adjustments of partner settlements are not made until you execute a new mass activity (transaction FPPARTADJ_MA). This mass activity analyzes the customer receivable related to the trigger to see if it is open, cleared, or written off. If an adjustment is necessary and the partner bears the risk for lack of payment, the system determines all billable and billed partner items that can be assigned to the customer receivable. The system then creates new billable partner items with the amount of the necessary reduction. If you do not want the reduction amount to be determined as a percentage of the open or cleared share of the customer receivable, you can implement your own logic for calculating the adjustment amount in the new event 1894.

Preliminary Invoices in Partner Settlement

In the partner settlement rule, you can specify that a preliminary invoice is created. Using the preliminary invoice type and the selection you enter there regarding invoice posting, you control whether a preliminary invoice (credit memo) for the purpose of partner settlement is posted at the time of finalization, or if the preliminary invoice is created only for internal information and then is discarded, for instance because an incoming invoice is expected from the partner.

Payment Mode

Using the payment mode in the partner settlement rule, you specify what percentage of the original amount you want to retain and want to pay out only with a delay of the number of days entered. You can create two additional payment stages within a partner settlement rule.

Effects on Customizing

You make the system settings for billing and invoicing partners in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Partner Settlement and Invoicing**.

ISU_INV_PP_3: Rating (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can control the rating of consumption from SAP Convergent Invoicing, allowing you, for example, to determine the price for services in cases where the price depends on data that is not available until the end of a consumption period. This is the case, for example, if you offer graduated prices that depend on total monthly consumption.

To perform rating for consumption of your customers from SAP Convergent Invoicing, import the consumption items from SAP Convergent Charging and store them temporarily in SAP Convergent Invoicing. If all of the information required for rating is available, enrich the consumption items with this information and send them back to SAP Convergent Charging for rating (see also the Release Note for **Data Storage of Consumption Items**).

Effects on Customizing

Consumption items are defined by consumption item classes. You make the necessary system settings in Customizing for Contract Accounts Receivable and Payable under **Convergent Invoicing -> Basic Functions -> Consumption Items -> Classes for Consumption Items**.

ISU_INV_PP_3: Rerating (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, **data storage for consumption items** takes place in Contract Accounts Receivable and Payable.

During rerating, SAP Convergent Charging determines new prices for already rated consumption items, and transfers these and the new items to SAP Convergent Invoicing. SAP Convergent Invoicing receives the new items and reverses the billable items that have become invalid due to rerating.

For the new rating, SAP Convergent Charging accesses the consumption items stored in Contract Accounts Receivable and Payable.

SAP Convergent Charging makes a distinction between offline and online rating. As of SAP enhancement package 7 for SAP ERP 6.0, in addition to rerating of consumption items rated offline, you can also perform rerating for items rated online, since Contract Accounts Receivable and Payable stores the data and makes it available for rerating in both cases.

You can also execute rating from within Contract Accounts Receivable and Payable. For billable items that result from this type of rating, you can also execute rerating.

ISU_INV_PP_3: Move of Documentation of Convergent Invoicing (Changed)

Use

To increase user-friendliness, Convergent Invoicing has been placed more centrally in Customizing, on the SAP Easy Access screen, and in the application help.

- o In Customizing for Contract Accounts Receivable and Payable, the sections **Billing** and **Invoicing** are now placed on the highest level of the structure, directly under **Convergent Invoicing**.
- o In the menu for Contract Accounts Receivable and Payable, the transactions for billing and invoicing are now on the highest level of the structure, directly under **Convergent Invoicing**. The transactions have also been restructured for better ease of use.
- o In the application help for Contract Accounts Receivable and Payable, you now find the documentation for Convergent Invoicing on the highest level of the structure.

ISU_MCOMM_4: Utilities, Market Communication 4

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), the business function **Utilities, Market Communication 4** (ISU_MCOMM_4) is available. You can use this business function to activate the following functions:

- **Basic Process for Sending Consumption Data**
- **Enhanced Posting Logic for Creating Aggregated Posting on Supplier Side**

See also

For more information, see the documentation for the business function *Utilities, Market Communication 4*.

ISU_MCOMM_4: Basic Process for Sending Consumption Data (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE) business function **Utilities, Market Communication 4** (ISU_MCOMM_4), the new data exchange basic process EXPMRCONS is available.

The new basic process EXPPROFBLK supports the sending of consumption data (meter reading results, conversion factors and consumption quantities) using the bulk service *MeterReadingDocumentERPResultBulkNotification_Out*. Sending data using packages optimizes performance. For more information, see the release note **Enterprise Services for SAP Industry Solutions Utilities**.

The data exchange functions now allow the mass activity framework to be used to distribute execution of data exchange tasks between several processes that run in parallel. For more information, see the release note **Mass Activity: Generate/Execute Data Exchange Tasks (New)**.

The Business Add-In (BAI) ISU_IDE_DEXDEF_SP in the data exchange definition prevents the same service provider combination using the data exchange basic process EXPMRCONS and the data exchange basic process EXPMREAD simultaneously.

You can use the Business Add-In ISU_IDE_DATEXCONN004 in the data exchange definition to specify that the sending of consumptions is to be started.

See also

For more information, see the documentation for the methods in the interface IF_ISU_DATEX_PROCESS_BULK and in the SAP Library for Utilities under *Intercompany Data Exchange -> Deregulation Functions -> Technical Reference to Deregulation Functions -> Technical Reference to Data Exchange Processes -> IDoc and Enterprise Service-Based Data Exchange Processes -> Standard Basic Processes (ES-Based) -> EXPMRCONS: Send Consumption Values*.

ISU_MCOMM_4: Enhanced Posting Logic (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension **Utilities, Waste & Recycling** (ISU_UTIL_WASTE), business function **Utilities, Market Communication 4** (ISU_MCOMM_4), the enhanced posting logic is available for the creation of aggregated incoming bills (transaction **ETTRANSF**) on the supplier side, as well as for the corresponding account maintenance (transaction **EACCMAN**).

- o If the statistical budget billing plan procedure is active on the supplier side (view **EDEREG_INV_SUPPL**) and the procedure has been activated for the respective service provider agreement for basic process **REM_OUT** for the respective contract account for aggregated posting, the transaction **ETTRANSF** creates the aggregated posting document according to the enhanced posting logic. The new posting logic ensures that clearing takes place for specific G/L account types on the respective down payment and payables account.
- o If the statistical budget billing plan procedure is active on the supplier side in the service provider agreement for basic process **REM_OUT** for the contract account for aggregated posting, the special account maintenance using transaction **EACCMAN** allows account maintenance for specific G/L accounts.

If you do **not** want to use the enhanced posting logic, you can deactivate it using **event R212**.

Effects on Existing Data

To use the enhanced posting logic, you have to reconcile the respective down payment and payables accounts.

ISU_WASTE_4: Business Function Waste & Recycling 4 (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE) the Business Function *Waste & Recycling 4* (ISU_WASTE_4) is available. This business function can be used by all waste and recycling companies.

When activating the new business function you will be able to use additional functions of the well-acquainted *SAP Waste and Recycling* solution to map your business processes. The considerable changes in the Accelerated Weighing Entry (e.g. Scale Load Management, Outbound and Subsequent Weighing) and the waste disposal order confirmation (e.g. grouping the confirmation fields, simulation of the debit memo requests) enhance and optimize your business processes. Additional functionalities ensure an ergonomic and safe handling of the industry solution *SAP Waste and Recycling*.

The Business Function *Waste & Recycling 4* (ISU_WASTE_4) includes the following functions:

- o **Waste Disposal Order Creation - New (Transaction EWAORDCREA)**
The new transaction EWAORDCREA is optimized for the mass production of waste disposal orders. Analog to transaction EWAORDALL waste disposal orders can be created, based on a route, container location, business partner, service area, service type and winter maintenance level while considering the factory calendar and the related service schedule shift.
- o **Adjustments in the User Interface of the Waste Disposal Order Confirmation (new)**
For the confirmation in the Waste Disposal Order Cockpit (Transaction EWAUDOC) the following new settings are possible:
 - Grouping of confirmation fields
 - Highlighting confirmation fields
 - Displaying unit fields assigned to the respective value fields
 - Display settings for the confirmation groups and unit fields
- o **Process Settings for the Waste Disposal Order Cockpit (new)**
This functionality allows to define, which functional activity (e.g. container movement) should be executed with which confirmation step. Furthermore it is possible to run the confirmation functions either in the dialog process or for a better performance in the background.
- o **Simulation of Debit Memo Requests in the Waste Disposal Order Cockpit (new)**
This functionality allows you to simulate the creation of debit memo requests before the waste disposal order is confirmed in the waste disposal order cockpit (transaction EWAUDOC). This process allows to check whether the rendered service is invoiced properly or a correction of the waste disposal order item is necessary.
- o **GOS Link Integration for SD Documents (new)**
This functionality allows you to create reference entries in the appendix to the debit memo request automatically, if this has been created from a weighing transaction (e.g. by SD transfer) or from a waste disposal order item (e.g. by posting the waste disposal order item).
- o **Displaying Weighing Transaction in the Document Flow of the Contract and the Debit Memo Request (new)**
In case of weighings for direct deliveries and subsequent SD transfer in the Accelerated Weighing Entry (transaction EAWA01), the weighing transaction is displayed in the document flow of the contract and the debit memo request. The user can identify all corresponding weighing transactions directly via the contract or the debit memo request and must no longer execute any reporting.
- o **CO-PA Enhancements in the Waste & Recycling CO Integration (new)**
The attributes from the CO-PA segment of the contract item can be transferred into the CO accounting. Furthermore, fields from the sales document header (VBAK), sales document items

(VBAP) or commercial data for the sales document item (VBKD) can be transferred in the mapping to the CO-PA attributes. This functionality reduces the maintenance effort for the mapping of CO-PA attributes.

- o **Adapting the Cancellation Logic for Debit Memo Requests (new)**

This functionality provides several options for the cancellation of debit memo requests which have been created from a weighing transaction or from a waste disposal order item (delete, cancel or convert into credit). This functionality allows to cancel weighing transactions/ waste disposal order items with debit memo requests which already have follow-on documents.
- o **Weighing Transaction (enhanced)**

Transaction `EWAWA02` was enhanced by the following new functionalities and information:

 - Search for all weighing transactions by entering the Asterisk (*)
 - Displaying the waste disposal order item for the waste disposal order
 - Displaying the net weight
 - Displaying the description for the transaction type and type of waste treatment
- o **Search Help in the Accelerated Weighing Entry (enhanced)**

In the Accelerated Weighing Entry (transaction `EWAWA01`) the search help has been enhanced as follows:

 - Search for weighing transactions by using the `POBJNR`
 - Search for waste disposal orders by using the `POBJNR`
 - Search for contracts assigned to a waste disposal facility
 - Search for CPD customers assigned to a waste disposal facility
 - Search for waste disposal orders assigned to a vehicle
 - Search for open weighing transactions
 - Search for waste disposal order items assigned to a waste disposal facility
- o **Outbound Weighing (new)**

In the Accelerated Weighing Entry (transaction `EWAWA01`) this functionality allows you to execute an outbound weighing for waste disposal order items. Thereby business processes with order-related internal relocations of waste or deliveries to the recycler are supported.
- o **Subsequent Weighing (new)**

In the Accelerated Weighing Entry (transaction `EWAWA01`) this functionality allows you to copy an inbound weighing into an outbound weighing. Thereby an additional weighing is saved, because the weighed tare weight is copied, for example if a vehicle makes a delivery and subsequently takes on waste (e.g. internal relocation).
- o **Load Management for Scales and Vehicles (new)**

This function allows to define the calibration limits for overload /underload per scale type and to assign the respective messages which are displayed when exceeding/falling below the calibration limits in the Accelerated Weighing Entry (transaction `EWAWA01`). In addition, vehicles can be checked for overloading
- o **Sample Selection from the Accelerated Weighing Entry (new)**

This functionality allows you to navigate directly from the weighing transaction to the corresponding samples (visual control, reserve sample). The inconvenient sample selection via the two transactions `EWAELO2` - Visual Control and `EWAELO3` - Reserve Sample is no longer necessary. The integration of the sample functionality in the Accelerated Weighing Entry is implemented more user-friendly.
- o **Process Check for Debit Memo Requests (new)**

In case of debit memo requests for a weighing transaction or a waste disposal order item, this functionality allows to control whether a warning message is displayed during the process or the processing is not allowed by an error message. This can prevent that referencing debit memo

requests are processed unintentionally.

- o **Weighing Settings in the Route (new)**
In the route (transaction `EROUTE`) it is possible to define whether a weighing may be done only on waste disposal order header level and/or on waste disposal order items. You can also define whether only a warning or an error message should be displayed in the Accelerated Weighing Entry
- o **Integration of Cash Journal with the Scale (new)**
In case of deliveries at the scale followed by cash sale, the incoming and outgoing payments are recorded directly in the cash journal. One cash journal can be assigned per scale user. Moreover, in case of cash sales via the scale, directly after the creation of the debit memo request, this function allows to control whether a SD-billing (invoice) is to be created which can be delivered to the customer. There will be no further FI chargeback. The invoice itself is posted to the FI.
- o **Usage of Standard Texts in the Accelerated Weighing Entry (new)**
Specific standard texts for weighing transactions can be maintained. For these standard texts you can determine whether these may be overwritten by changes of other fields.
- o **Field Value Transfer into the Weighing Transaction (new)**
This functionality allows you to post additional field values automatically into the weighing transaction. The automated transfer of field values into the weighing transaction ensures a fast record of additionally required information.
- o **Field Value Transfer from Weighing Transaction to Weighing Record (new)**
This functionality allows you to transfer field values from the weighing transaction automatically into the fields of the corresponding weighing record in the waste disposal order confirmation (transaction `EWAWDOC`). Depending on the transaction type, you can define which field values should be transferred.
- o **Field Value Transfer from Weighing Transaction into Follow-on Documents (new)**
Besides the standard field values, this functionality allows you to transfer additional field values from the weighing transaction into the corresponding SD documents. The field value transfer for the SD documents is controlled by the different order types assigned to the waste disposal facilities. By the transfer of e.g. additional customer-specific information into the SD documents, a complex post-processing of the documents is no longer necessary.
- o **Multiple Smartforms for Waste Disposal Facilities (new)**
To ensure more flexibility when printing from the Accelerated Weighing Entry, several smartforms can be stored at each waste disposal facility. Depending on the selected waste disposal facility in the Accelerated Weighing Entry, the smartforms are then available for printing.
- o **Suppression of Debit Memo Requests (new)**
This functionality allows you to avoid the creation of a debit memo request for a waste disposal order item in the waste disposal order confirmation. This prevents that unnecessary documents (e.g. debit memo request for a container delivery order or for contracts with invoice plan) are created in the system and unnecessary data load is generated.
- o **Input Help for the Sample Attributes (new)**
This functionality allows you to define fixed default values in the customizing for the sample attributes for the visual control and reserve sample of a weighing transaction. The fixed default values are available via an input help. This allows a standardized procedure when creating and evaluating the samples. In order to ensure the backwards compatibility, you can set in the customizing whether the sample attributes may be allocated manually or via the input help.

For additional information see also the following Release Information.

Effects on Existing Data

In order to be able to use the business function *Waste & Recycling 4* (`ISU_WASTE_4`), the following

business functions must be activated:

- o *Waste & Recycling 3* (ISU_WASTE_3)
- o *Utilities, Contract A/R a. A/P 3* (ISU_CA_3)

ISU_WASTE_4: Waste Disposal Order Creation (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) a new transaction for waste disposal order creation is available.

- o **Transaction EWAORDCREA: Create for Waste Disposal and Cleaning – new**
This transaction is optimized for the mass production of waste disposal orders. Analog the transaction EWAORDALL waste disposal orders can be created based on route, container location, business partner, service area, service type and winter maintenance level while considering the factory calendar and the related service schedule shift.
In order to start the transaction go to *SAP Easy Access*:
Utilities Industry -> Waste Management -> Processing of Waste Disposal Orders -> Create for Waste Disposal and Cleaning - new or call transaction **EWAORDCREA**.
- o **Transaction EWAORDCREACONF: Configuration of Order Creation - new**
This transaction is used to configure transaction EWAORDCREA. Here, additional settings for the process control can be made and the splitting criteria for the created waste disposal orders can be determined.
To start the transaction go to *SAP Easy Access*:
Utilities Industry -> Waste Management -> Processing of Waste Disposal Orders -> Basic Settings -> Configuration of Order Creation - new or call transaction **EWAORDCREACONF**.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

If you want to use the improved order creation via transaction EWAORDCREA erzeugen können, you have to maintain the following parameter in the customizing of *Waste Management* under **Active Order Creation Settings**:

- o **Create Using Method EWAORDCREA**

The order creation via transaction EWAORDALL is activated by default.

With the help of the BAdI **Enhancement for Creation of Waste Disposal Orders (New)** you can adjust the creation of waste disposal orders or waste disposal order items by using the new order creation method. For additional information see also the BAdI-documentation.

With the help of the BAdI **Adjust Selection Screen of Transaction EWAORDCREA** you can customize an additional **Tab**. For additional information see also the BAdI-documentation.

See also

For additional information see also the application help of transaction EWAORDCREA.

ISU_WASTE_4: Adjustments in the User Interface of the Waste Disposal Order Confirmation (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) you can customize the user interface of the waste disposal order confirmation in order to structure the information in a better way

- **Grouping of Confirmation Fields**
With this functionality you can group confirmation fields assigned to confirmation categories according to certain areas or tasks.
- **Highlighting Confirmation Fields**
With this functionality you can highlight the confirmation fields assigned to a confirmation category. Besides the grouping, this offers another way to accentuate the confirmation fields and their information.
- **Displaying Unit Fields Assigned to Value Fields**
With this functionality you can assign and display units to the respective value fields. This improves the display of the confirmation information
- **Display Settings for Confirmation Groups and Unit Fields**
With this functionality you can define how to display the confirmation field groups and unit fields. The settings can be made on waste disposal order level, waste disposal order item level or weighing note level.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

- **Grouping Confirmation Fields**
In order to group the confirmation fields you must create confirmation fields in the customizing of *Waste Management* under **Define Confirmation Categories**. Afterwards you can assign the confirmation fields to the respective confirmation groups.
- **Highlighting Confirmation Fields**
The settings can be made in the customizing of *Waste Management* under **Define Confirmation Categories**.
- **Displaying Unit Fields Assigned to Value Fields**
The settings can be made in the customizing *Waste Management* under **Define Settings For Waste Disposal Order Cockpit**.
- **Display Settings for Confirmation Groups and Unit Fields**
The display settings can be defined in the customizing *Waste Management* under **Define Settings for Waste Disposal Order Cockpit**.

ISU_WASTE_4: Process Settings for the Waste Disposal Order Cockpit (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) it is possible to define, whether the confirmation functions (e.g. **Positive Confirmation**) of the Waste Disposal Order Cockpit (Transaction EWAWDOC) should run in a dialog process or in the background to ensure a better performance.

Furthermore it can be determined which functional activity (e.g. *container movement*) should be executed with which confirmation step.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

- o Settings for Confirmation Functions
The settings can be defined in the customizing of *Waste Management* under **Define Settings for the WDO Cockpit** (View *Function Settings*).
- o Assignment of Functional Activity to Confirmation Step
The settings can be defined in the customizing of *Waste Management* under **Define Process Settings for the WDO Cockpit**.

See also

For additional information see also the documentation of IMG activity.

ISU_WASTE_4: Simulation of Debit Memo Request in the Waste Disposal Order Cockpit (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) you may use the simulation of the debit memo requests at the waste disposal order confirmation.

This process allows checking whether the rendered service is invoiced properly or a correction of the waste disposal order item is necessary.

Effects on Existing Data

This functionality has no influence on existing data.

ISU_WASTE_4: GOS Link Integration for SD Documents (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) the integration of the generic object service is available.

This functionality automatically creates reference entries in the appendix to the debit memo request, if this has been created from a weighing transaction (e.g. by SD transfer) or from a waste disposal order item (e.g. by posting the waste disposal order item).

Effects on Existing Data

This functionality has no influence on existing data.

Effects on System Administration

To use the functionality, the user has to maintain the parameter **SD_SWU_ACTIVE** with value **X** in the user profile. .

ISU_WASTE_4: Displaying Weighing Transaction in the Document Flow to the Contract and to the Debit Memo Request (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) weighing transactions are displayed in the document flow of the contract and of the debit memo request, if a weighing transaction of a contract was executed (e.g. external delivery) in the Accelerated Weighing Entry.

With this functionality you can identify all corresponding weighing transactions directly via the contract or the debit memo requests and must no longer execute any reporting.

Effects on Existing Data

This functionality has no influence on existing data.

ISU_WASTE_4: CO-PA Enhancements in the Waste & Recycling CO-Integration

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) enhanced functionalities of the CO-integration for the waste disposal order creation are available.

The attributes from the CO-PA segment of the contract item can be copied to the CO accounting. Furthermore, fields from the sales document header (**VBAK**), sales document items (**VBAP**) or commercial data for the sales document item (**VBKD**) can be copied to the mapping of the CO-PA attributes.

This functionality reduces the maintenance effort for the mapping of CO-PA attributes.

Effects on Existing Data

- o Copying CO-PA Segments
In order to transfer the CO-PA segment from the contract to the CO-posting, it must be assigned to the appropriate contract item. The assignment can be done with help of transaction VA42 - *Change Contract* and function **Profit.Segment** on contract item level on tab *Account Assignment*.
- o Settings for the mapping of CO-PA attributes from the Sales Documents
The mapping of the CO-PA attributes can be defined in the maintenance transaction EWAC007 in *SAP Easy Access* under *Waste Management -> Master Data -> Basic Setting -> Controlling Integration -> Allocate CO-PA Characteristics to Confirmation Fields*.
Standard tables and fields from *SAP Waste and Recycling* and the corresponding sales document tables can be referred to. These are assigned to the profit segment and the CO-PA attribute.

Effects on Customizing

The CO-Integration must be activated. This can be done in the customizing of Waste Management under **Activate CO Integration for Controlling Cockpit**.

If the attributes transfer of the contract is to be used, the parameter *CO-PA switched on with value takeover from SD* has to be set in field **Apply CO-PA**.

ISU_WASTE_4: Adapting the Cancellation Logic for Debit Memo Requests (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) several options are available for the cancellation of debit memo requests which have been created from a weighing transaction or from a waste disposal order item

- o Delete
- o Cancel
- o Convert into credit

This functionality allows cancelling weighing transactions/ waste disposal order items with debit memo requests which already have follow-on documents.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

o **For Weighing Transactions**

The cancellation logic is maintained in the Customizing of *Waste Management* under **Define order types for waste disposal facility types**. The following fields must be maintained according to the requirements:

- ***SD Type Cancel***

Sales document type used for the creation of credit memos if a debit memo cannot be deleted or canceled

- ***Rej.CD. Cancel***

Cancellation reason for the cancellation of a debit memo request / cash sale

- ***SD Cancel CashS***

Sales document type that can be used to create credit memos if the cash sale cannot be deleted or canceled

o **For Waste Disposal Oder Items**

The cancellation logic is maintained in the Customizing of *Waste Management* under **Enhanced Settings For Tracer Control When Creating SD Documents**. The following fields must be maintained according to the requirements:

- ***CancReason***

Cancellation reason in case of cancellation of debit memo request and its items

- ***•SDT Credit***

Sales document type for credit memo request

ISU_WASTE_4: Enhanced Weighing Transaction

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) new functionalities and information for transaction **EWAWA02 - Weighing Transaction** are available.

The transaction EWAWA02 has the following new functionalities and information:

- o Search for all weighing transactions by entering the Asterisk (*)
- o Displaying the waste disposal order item for the waste disposal order
- o Displaying the net weight
- o Displaying the description for the transaction type and type of waste treatment

Effects on Existing Data

This functionality has no influence on existing data.

ISU_WASTE_4: Enhanced Search Help in the Accelerated Weighing Entry

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) new and enhanced search helps are available in transaction **EWAWA01 - Accelerated Weighing Entry**.

The search helps are enhanced with the following functionalities:

- o Search for open weighing transactions
By using the search help *Open Weighing Transactions* the user is able to search for open weighing transactions, which are not yet posted in the system. The result list displays, if for example the posting of the weighing transaction or the SD transfer is pending.
- o Search for waste disposal orders assigned to a vehicle
If the vehicle is recorded (equipment number and license plate), the license plate will be transferred into the search help *Waste Disposal Order by Route/Date/Vehicle*. In combination with the order date, this allows to filter the orders assigned to a vehicle on a specific date. This simplifies the order search if only vehicle data are available.
- o Search for waste disposal order items assigned to a waste disposal facility
If the waste disposal facility is entered in the weighing transaction, the waste disposal facility will be transferred into the search help *Search Help for Waste Disposal Order Items*. Thereby only the waste disposal order items for this waste disposal facility will be filtered. This simplifies the selection of all relevant waste disposal order items.
- o Search for contracts assigned to a waste disposal facility
If a waste disposal facility is maintained on item level (characteristic or customer specific field) of a contract (e.g. for direct deliveries), the contract items will be filtered in the Accelerated Weighing Entry according to the selected waste disposal facility.
- o Search for CPD customers assigned to a waste disposal facility
In case of 3rd party deliveries and a prefilled waste disposal facility in the weighing transaction, the related CPD customer will be displayed in the search help for customers. If one or more contracts are assigned to the CPD customer, these will be displayed and are available for selection.
- o Search for weighing transactions by using POBJNR
The POBJNR (object number) is the unique identifier of waste disposal order items and will often be used as order number. With the integrated search help *General Weighing Transaction* at field *Weighing Transaction* it is possible to identify the relevant weighing transactions through the parameter *WDO Item ID*.
- o •Search for waste disposal orders by using POBJNR
The POBJNR (object number) is the unique identifier of waste disposal order items and will often be used as order number. By enhancing the search help for Waste Disposal Order Items of field Sequence Number with the parameter *WDO Item ID* it is possible to identify the waste disposal order items clearly.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

- o Search for contracts assigned to a waste disposal facility
In order to filter the contract items according to the selected waste disposal facility in the Accelerated Weighing Entry, a characteristic or the customer specific field must be defined. This can be done in the customizing of *Waste Management* under **Define Validation of SD**

Contracts.

ISU_WASTE_4: Outbound Weighing (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) a new functionality for recording outbound weighings in the Accelerated Weighing Entry is available (Transaction **EWAWA01**).

The outbound weighings can be recorded for waste disposal order items. Thereby business processes with order-related internal transfers of waste or deliveries to the recycler are supported.

Effects on Existing Data

This functionality has no influence on existing data.

See also

For more information see as well application help of transaction EWAWA01.

ISU_WASTE_4: Subsequent Weighing (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) the functionality of a subsequent weighing in the Accelerated Weighing Entry (Transaction **EWAWA01**) is available.

This functionality allows you to copy an inbound weighing into an outbound weighing. Thereby an additional weighing is saved, for example if a vehicle makes a delivery and subsequently takes up waste again (e.g. internal transfer or outbound delivery).

The following values are transferred into the outbound weighing:

- o Hardware profile group
- o Equipment
- o License plate
- o Tare weight
- o Waste treatment type
- o Shift date
- o Waste disposal facility

The transaction type will be changed from inbound to outbound automatically.

Effects on Existing Data

This functionality has no influence on existing data.

See also

For additional information see also the application help of transaction EWAWA01.

ISU_WASTE_4: Load Management for Scales and Vehicles (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE) Business Function *Waste & Recycling 4* (ISU_WASTE_4) the Load Management functionality for Scales and Vehicles is available.

This function allows you to define the calibration limits for overload /underload per scale type and to assign the respective weighing information to be displayed in the Accelerated Weighing Entry when the calibration limits are exceeded or fallen below (transaction **EWAWA01**).

Additionally, the admissible total weight of the vehicles (own and external vehicles) can be checked during the outbound weighing process in order to prevent an overload of the vehicles.

Effects on Existing Data

Checking Vehicle Load (Own Vehicles)

In order to check the vehicle load, the field **Total Weight** has to be filled in the vehicle master data (transaction **IE02**). This value is double-checked in the Accelerated Weighing Entry.

Effects on Customizing

Checking the Scale Load

- o Maintenance of the weighing information
In order to display the weighing information according to the calibration limits in the Accelerated Weighing Entry, these must be maintained in the customizing of the *Waste Management* under *Waste Disposal Facilities -> Weighing Connection -> Enhanced Weighing Connection -> Define Weighing Information*.

- o Maintenance of the calibration limits/ weighing intervals
In order to check the calibration limits/ weighing intervals during the weight transfer into the Accelerated Weighing Entry and to display the corresponding weighing information, the calibration limits/ weighing intervals must be defined per hardware profile group and the previously created weighing information must be assigned. This is done in the customizing of *Waste Management* under *Waste Disposal Facilities -> Weighing Connection -> Define Hardware Profile Groups*.

Note:

For checking the vehicle load of third party vehicles, a separate entry must be created for the weighing information and for the calibration limits/ weighing intervals. This must be done if third party vehicles are not recorded in the vehicle master data.

Checking the Vehicle Load (Own Vehicles)

- o Maintenance of the weighing information
In order to display the weighing information in the Accelerated Weighing Entry when exceeding the admissible total weight, these must be created in the customizing of *Waste Management* under *Waste Disposal Facilities -> Weighing Connection -> Enhanced Weighing Connection -> Define Vehicle Overload Checks*.

See also

For additional information see also the application help of transaction **EWAWA01**.

ISU_WASTE_4: Sample Selection from the Accelerated Weighing Entry (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) the samples corresponding to a weighing transaction can be called directly from the Accelerated Weighing Entry.

With this functionality the inconvenient sample selection via the transaction EWAELO2 - Visual Control and EWAELO3 - Reserve Sample is no longer necessary. The integration of the sample functionality in the Accelerated Weighing Entry is thereby more user-friendly.

The recorded samples of a weighing transaction can be called in the menu *Go to -> Samples*.

Effects on Existing Data

This functionality has no influence on existing data.

ISU_WASTE_4: Processing Check for Debit Memo Requests (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) in case of debit memo requests for a weighing transaction or a waste disposal order item, it can be controlled, whether a warning message is displayed during the process or the processing is not allowed (error message).

This functionality can prevent that referencing debit memo requests are processed unintentionally.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

The setting of the processing check can be done in the customizing of *Waste Management* under **Define Processing Check for Debit Memo Requests**.

See also

For additional information see also the documentation of IMG activity.

ISU_WASTE_4: Weighing Settings at the Route (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) weighing settings can be defined for a **Route**.

With this functionality it is possible to define for each route whether a weighing in the Accelerated Weighing Entry may be done only on waste disposal order header level and/or on waste disposal order item level.

Effects on Existing Data

In order to check the weighing settings of the route in the Accelerated Weighing Entry, it must be defined which weighings per route are allowed in transaction **EROUTE**.

The following settings are possible:

Header Weighing

- o Permitted
The weighing transaction can be saved.
- o Warning
When saving a weighing transaction a warning is displayed. The data are saved.
- o Not-Permitted
When saving the weighing transaction an error message is displayed. The weighing transaction cannot be saved.

Item Weighing

- o Permitted
The weighing transaction can be saved.
- o Warning
When saving a weighing transaction a warning is displayed. The data are saved.
- o Not-Permitted
When saving the weighing transaction an error message is displayed. The weighing transaction cannot be saved.

ISU_WASTE_4: Integration of Cash Journal in Weighing Transaction (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) the integration of the cash journal at the Accelerated Weighing Entry is available.

In case of deliveries at the scale followed by a cash sale, the incoming and outgoing payments are recorded directly in the cash journal. One cash journal can be assigned to each user working at the scale.

Moreover, in case of cash sales at the scale, directly after the creation of the debit memo request, this function allows to control whether an SD-billing (invoice) is to be created which can be handed over to the customer. There will be no further FI clearing. The invoice itself is transferred to the FI.

In transaction **EWAWAUSER** under *Assignment of Cash Journal to User* a cash journal can be assigned to the user.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

In order to ensure a correct booking for the cash journal/ cash fund in case of cash sales at the scale, the correct cash journal business transactions have to be assigned to the corresponding company code. This can be done in the customizing of *Waste Management* under *Waste Disposal Facilities*->

Define Order Types for Waste Disposal Facilities

For the automatic creation of a billing document in case of cash sales, the field **Auto Billing** must be marked in the corresponding order type.

For the automatic creation of a cash journal entry, the field **Auto CashJEntry** must be marked in the corresponding order type.

See also

For additional information see also the application help of the transaction EWAWA01.

ISU_WASTE_4: Using Default Texts in Accelerated Weighing Entry (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) standard texts (text-IDs) can be defined for the weighing transaction and assigned to text profiles. This allows the storage of additional information in the weighing transaction.

The following settings can be made:

- o **Maintaining Standard Texts**
Only the text types are defined but no specific texts. These text types are available in the field group *Note* of the *Accelerated Weighing Entry* (Transaction EWAWA01) and can be filled with information.
- o **Maintaining Text Profiles**
Text profiles can be defined for the weighing transaction and assigned to these text types (text IDs) with individual writing permissions. Weighing transaction specific characteristics (external or internal delivery, transaction type, weighing data type) can be maintained for each text profile. When creating a weighing transaction, the appropriate text profile is selected on the basis of these characteristics and the corresponding text fields are provided. If no profile can be determined, all available text types for the weighing transaction are displayed.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

- o **Maintaining Standard Texts**
Standard texts are maintained in the Customizing of *Waste Management* under **Define standard texts for weighing transaction**.
- o **Maintaining Text Profiles**
Text profiles are maintained in the Customizing of *Waste Management* under **Define text profiles for weighing transaction**.

ISU_WASTE_4: Field Value Transfer into the Weighing Transaction (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) the automatic transfer of field values from business objects (e.g. *SD Contract* or *Waste disposal order*) into the mask of the Accelerated Weighing Entry is available. If a respective business object is selected in the Accelerated Weighing Entry, the field values are transferred.

The automated transfer of field values into the weighing transaction ensures an accelerated record of additionally required information.

The following business objects are available for the field value transfer into the weighing transaction:

- o **SD Contract**
 - Sales Document Header (VBAK) with fields of table VBAK
 - Texts for sales document header (TEXT) with fields of structure EWASWA_SDTEXT. A specific text can be addressed with the notation TEXT-<TextID>.
- o **SD Contract Item**
 - Sales Document Item (VBAP) with fields of VBAP
 - Texts for sales document items (TEXT) with fields of structure EWASWA_SDTEXT. A specific text can be addressed with the notation TEXT-<TextID>.
- o **Waste Disposal Order Header**
 - Waste Disposal Order Header (HEAD) with fields of structure EWASWDORDER.
- o **Waste Disposal Order Item**
 - Waste Disposal Order Item (ITEM) with fields of structure EWASWDORDERITEM.
- o **Service Frequency**
 - Service Frequency Header (EWAOBJ)
 - Service Frequency Timeslice (EWAOBJH)
 - Notes on Service Frequency (EWAOBJH_DIFFCULT). A specific note can be addressed with notation EWAOBJH_DIFFCULT-<NoteID>.

Please note that only registered business objects (providers) are available. New providers have to be added in the object configuration.

The field value can also be transferred into the texts of the weighing transaction provided that standard texts and the assignment of text profiles are maintained. For additional information see also release information **Usage of standard texts in the Accelerated Weighing Entry (new)**.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

The field value transfer into the weighing transaction can be configured in the customizing of *Waste Management* under **Define field value transfer for the Accelerated Weighing Entry**.

ISU_WASTE_4: Field Value Transfer from Weighing Transaction to Weighing Record (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) additional field values can be transferred to the corresponding weighing record in the waste disposal order confirmation (transaction `EWAWDOC`) besides the standard field values from the weighing transaction.

This functionality allows a more flexible filling of the data fields of the weighing record (assigned to a waste disposal order/waste disposal order item) taking into account different customer requirements.

Depending on the transaction type, it is possible to define, which field values should be transferred. Linked by use of a separator, several values can be transferred to the same field. Furthermore, an alpha conversion can be executed during the value transport.

The field value transfer takes place when posting the weighing transaction.

Besides the standard field values, the field values according to the configuration of the *field value transfer into the weighing transaction can also be transferred* into the weighing note.

For additional information see also Release-Information **ISU_WASTE_4: Field Value Transfer into the Weighing Transaction (new)**.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

The field value transfer from the weighing transaction into the weighing note can be configured in the customizing of *Waste Management* under **Field Value Transfer from Weighing Transaction to Weighing Record**.

ISU_WASTE_4: Field Value Transfer from Weighing Transaction into follow-on documents (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) additional field values can be transferred from the weighing transaction into the corresponding SD documents besides the standard field values. The field value transfer for the SD documents is controlled by the order types assigned to the waste disposal facilities.

The data source for the following levels can be set per order type:

- o Sales document header
- o Sales document header texts
- o Sales document item
- o Sales document item texts

By the transfer of e.g. additional customer-specific information into the SD documents, an elaborate post-processing of the documents is no longer necessary.

Besides the standard field values from the weighing transaction, also the additional field values from the configuration of the *Field value transfer into the weighing transaction* can be transferred into the follow-on documents.

For additional information see also Release-Information **ISU_WASTE_4: Field Value Transfer into the Weighing Transaction (new)**.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

The maintenance of the field value transfer for the follow-on documents can be done in the customizing of *Waste Management* under **Define Order Types for Waste Disposal Facilities**.

ISU_WASTE_4: Multiple Smartforms at the Waste Disposal Facility (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) several Smartforms can be stored for each waste disposal facility in order to achieve more flexibility when printing from the Accelerated Weighing Entry.

Depending on the selected waste disposal facility in the Accelerated Weighing Entry, the Smartforms are available for printing.

Effects on Existing Data

The Smartforms are stored in the master data of the Waste Disposal Facility (transaction `EWAELO4`) on tab *Forms*.

The following settings can be defined per stored Smartform:

- o **Std. Print**
The form is used if the Standard Print Function is executed from the menu bar of the Accelerated Weighing Entry.
- o **Print Function**
The form is used if the function is executed from the function bar of the Accelerated Weighing Entry.
- o **Sequences**
Defines the sequence in which the print forms are available for selection in the weighing screen.

Already maintained Smartforms for a Waste Disposal Facility are considered.

Effects on Customizing

With the help of the BAdI's **Selection of Weighing Documents for Printing Weighing Notes** you can influence the printing of weighing documents. For additional information see also the BAdI-documentation.

See also

For additional information see also the application help of the transaction `EWAELO4`.

ISU_WASTE_4: Suppression of Debit Memo Requests (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) it is possible to avoid the creation of a debit memo request for a waste disposal order item in the waste disposal order confirmation. This prevents that unnecessary documents (e.g. debit memo request for a container delivery order or for contracts with invoice plan) are created in the system and unnecessary data load is generated.

Debit memo requests can be rejected for sales document types, service types or combinations of sales document type and service type.

Effects on Existing Data

This functionality has no influence on existing data.

Effects on Customizing

The maintenance of the settings for the prevention of debit memo requests can be done in the customizing of *Waste Management* under **Constraints for Suppression of Debit Memo Requests**.

See also

For additional information see also the documentation of IMG activity.

ISU_WASTE_4: Input Help for the Sample Attributes (new)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, Industry Extension *Utilities, Waste & Recycling* (ISU_UTIL_WASTE), Business Function *Waste & Recycling 4* (ISU_WASTE_4) it is possible to define fixed default values in the customizing for the sample attributes of a weighing transaction which are available then via an input help for the creation of a visual control (**EWAELO2**) or reserve sample (**EWAELO3**).

This allows a standardized procedure when creating and evaluating samples.

Effects on Customizing

The maintenance of the input help for the sample attributes and the corresponding attribute values can be done in the customizing of the Waste Management under **Define Input Help for Sample Attributes**.

The following settings are possible for each sample attribute (appearance, consistency, color and odor):

- o No input help
- o List box (input help as list box)
- o Search help (input help as search help)

If the settings list box or search help are selected, you can assign defined characteristic values per sample characteristic.

See also

For additional information see also the documentation of IMG activity.