

Release Notes
for
SAP enhancement package 7
for **SAP ERP 6.0,**



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FI-CAX Non-industry specific contract accounts receivable

FICAX_CI

FICAX_CI_5: Contract Accounts A/R and A/P, 05

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can use the business function Contract Accounts A/R and A/P, 05 (FICAX_CI_5). 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 **System Measurement**
- 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.

FICAX_CI_5: 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**.

FICAX_CI_5: 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**.

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**.

FICAX_CI_5: 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:

<u>Archiving object</u>	<u>Description</u>	<u>Software</u>
<u>Component</u>		
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 CA	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 CA	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 CA	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</u>
<u>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.

FICAX_CI_5: 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**.

FICAX_CI_5: 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**.

FICAX_CI_5: System Measurement (New)

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can determine the occurrences of incoming and outgoing payments in Contract Accounts Receivable and Payable. Depending on the industry solution you are using, the system determines the corresponding metric for the system measurement.

Effects on Customizing

Enter the industry solution you are using in Customizing for Contract Accounts Receivable and Payable under **Basic Functions -> Specify Industry Instance of Contract Accounts Receivable and Payable** .

FICAX_CI_5: 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**.

FICAX_CI_5: 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.**

FICAX_CI_5: 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.**

FICAX_CI_5: 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.

FICAX_CI_5: 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***.

FICAX_CI_5: 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**.

FICAX_CI_5: 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**.

FICAX_CI_5: 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.

FICAX_CI_5: 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.

FICAX_CI_5: 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.

FICAX_CI_5: 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**.

FICAX_INV

FICAX_INV_2: Invoicing in Contract Accounts Receivable and Payable, 02

Use

As of SAP enhancement package 7 for SAP ERP 6.0, you can use the business function Invoicing Enhancements, 02 (FICAX_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.**

FICAX_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**.

FICAX_INV_PP_3: Billing in Contract Accounts Receivable and Payable, 02

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.**

FICAX_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**.

FICAX_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**.

FICAX_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.

FICAX_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**.

FICAX_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.

FICAX_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.

FICAX_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**.

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**.

FICAX_INV_PP

FICAX_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**.

FICAX_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)
Partner 4711	Included (Priority 2)

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 are 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**.

FICAX_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.

FICAX_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 event **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

FICAX_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, send 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** (PTSDT), 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**.

FICAX_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**.

FICAX_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.

FICAX_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.