

## Summary

### Symptom

The customer-vendor integration (CVI) that was already delivered in earlier releases has been redesigned for Release (ERP2005) SAP\_APPL 6.0. Several functions have been changed and added and the architecture has been partially changed. As a result, you have to make Customizing settings in the IMG. Furthermore, you must run various migration reports.

### More Terms

Customer vendor Integration, CVI, customer, vendor, upgrade, migration, business partner

### Cause and Prerequisites

You carry out a release upgrade.

### Solution

The following section contains information about the settings that you have to take into account in this environment. Before you make the settings, you must decide whether you want to set up the synchronization in two directions (from the business partner to the customer and the other way round) and whether you also want to set up the synchronization to the vendor. The following sections contains all relevant settings. Adjust your system according to your requirements.

#### 1) Customizing

##### 1.1) Customizing of the synchronzation options

Cross-Application Components

Master Data Synchronization

Synchronization Control

Synchronization Control

Activate Synchronization Options

The following entries are required for a synchronization between the business partner and the customer / vendor in two directions:

Source Object Target Object Act. Ind.

BP	CUSTOMER	X
BP	VENDOR	X
CUSTOMER	BP	X
VENDOR	BP	X

Enter and activate the options required in your environment. If you require integration between the business partner and the customer/vendor in two directions, all four options are necessary.

##### 1.2.) Post Processing Office (PPO)

You can connect the master data synchronization between the business partner and the customer/vendor to the Post Processing Office. After you define the connection, the system writes a postprocessing order (PPO order) during the synchronization if an error occurs. You can use transaction MDS\_PP02 ("Postprocessing Desktop") to call the postprocessing orders. You can use this function to analyze and postprocess errors. You set up the PPO

for the synchronization between the business partner and the customer/vendor. If an error occurs, there are inconsistent datasets in the systems until the PPO orders are processed consistently. If you do not activate the PPO for the master data synchronization between the business partner and the customer/vendor, the system generates a DUMP in the synchronization if an error occurs. The cause of the synchronization error is displayed in the error table LS\_ERROR-OBJECTS in the dump / debugger:

- If the system generates a dump, navigate to the debugger.
- Enter the variable LS\_ERROR-OBJECTS
- Double-click the structure to access the structure: The errors (for the first synchronized object pair) are at level  
IS\_ERROR\_OBJECTS-OBJECTS[1]-ID\_MESSAGES[1]-MESSAGES.

PPO entries or dumps are often caused by required entry fields that have not been adjusted. For more information about this problem, see Note 928616 ("BP\_CVI: Customiz of required entry fields at BP/cust/vendor").

We recommended you to activate the PPO for the testing phase. The advantage of this is that the error messages are displayed with transaction MDS\_PPO2. In productive environments, in which the causes for error messages should be eliminated, we advise you against activating the PPO orders for the following reasons:

- there are no data inconsistencies (until the PPO entries are processed) as the entire LUW is rolled back in this case. This is particularly important in complex scenarios when contracts and link tables for business partners are saved in one step with links to customers/vendors.
- a dump in a productive environment causes serious problems in the synchronization.

To connect the CVI to the PPO, you must make two Customizing entries:

SPRO:

Cross-Application Components  
  Master Data Synchronization  
    Synchronization Control  
      Synchronization Control  
        Activate PPO Requests for Platform Objects in the Dialog

Activate the PPO for the synchronization object BP (use input help).

Syn.Object	PPO Active:
BP	X

The menu item: (Documentation)

SPRO:

Cross-Application Components  
  Master Data Synchronization  
    Synchronization Control  
      Preparatory Steps for Synchronization Control

consists of a documentation and refers to the following menu item:

SPRO:

Cross-Application Components  
  General Application Functions  
    Postprocessing Office  
      Business Processes  
        Activate Creation of Postprocessing Orders

For the software component AP-MD, you must make the following entries:  
(use inpit help)

Business Process

CVI\_01      Customer -> Business partner  
CVI\_02      Vendor -> Business partner  
CVI\_03      Business partner -> Customer  
CVI\_04      Business partner -> Vendor

Activate your entries.

For further controlling of postprocessing orders (workflow connection), see the documentation of the required steps in the IMG.

### 1.3) Customer-vendor integration

#### 1.3.1) Preparatory Steps for Master Data Synchronization

Read the documentation for this step in the IMG and check whether the settings referred to in the documentation are active.

SPRO:

Cross-Application Components

    Master Data Synchronization

        Preparatory Steps for Master Data Synchronization

#### 1.3.2) Settings for Customer Integration

1.3.2.1) For the synchronization from the business partner to the zum customer / vendor, you must define the customer business partner role categories.

SPRO:

Cross-Application Components

    Master Data Synchronization

        Customer/Vendor Integration

            Business Partner Settings

                Settings for Customer Integration

                    Set BP Role Category for Direction BP to Customer

1.3.2.2) For the synchronization from the customer to the business partner, you must define the business partner roles in which the business partner is created.

SPRO:

Cross-Application Components

    Master Data Synchronization

        Customer/Vendor Integration

            Business Partner Settings

                Settings for Customer Integration

                    Define BP Role for Direction Customer to BP

#### 1.3.2.3) Number assignment for customer-vendor Integration

For the number assignment from the business partner to the customer and vice versa, you must assign the groupings and number ranges.

SPRO:

Cross-Application Components

    Master Data Synchronization

        Customer/Vendor Integration

            Business Partner Settings

                Settings for Customer Integration

                    Field Assignment for Customer Integration

                        Assign Keys

                            Define Number Assignment for Direction BP to Customer

                            Define Number Assignment for Direction Customer to BP

1.3.2.4) Assignment of attributes that are stored differently in the business partner than in the customer or assignment of attributes that have different values.

SPRO:

- Cross-Application Components
  - Master Data Synchronization
    - Customer/Vendor Integration
      - Business Partner Settings
        - Settings for Customer Integration
          - Field Assignment for Customer Integration
            - Assign Attributes
              - Assign Marital Statuses
              - Assign Legal Form to Legal Status
              - Assign Payment Cards
              - Assign Industries

1.3.2.5) Settings for contact person function

SPRO:

- Cross-Application Components
  - Master Data Synchronization
    - Customer/Vendor Integration
      - Business Partner Settings
        - Settings for Customer Integration
          - Field Assignment for Customer Integration
            - Assign Attributes
              - Contact Person
                - Activate Assignment of Contact Persons
                - Assign Department Numbers for Contact Person
                - Assign Functions of Contact Person
                - Assign Authority of Contact Person
                - Assign VIP Indicator for Contact Person

1.3.2.6) Specifications / default values

SPRO:

- Cross-Application Components
  - Master Data Synchronization
    - Customer/Vendor Integration
      - Business Partner Settings
        - Settings for Customer Integration
          - Specifications
            - Define Default Values to Automatically Create Customers
            - Define Default Values per Product Type

1.3.3) Settings for Vendor Integration

1.3.3.1) Set BP Role Category for Direction BP to Vendor

SPRO:

- Cross-Application Components
  - Master Data Synchronization
    - Customer/Vendor Integration
      - Business Partner Settings
        - Settings for Vendor Integration
          - Set BP Role Category for Direction BP to Vendor

1.3.3.2) Define BP Role for Direction Vendor to BP

SPRO:

Cross-Application Components  
  Master Data Synchronization  
    Customer/Vendor Integration  
      Business Partner Settings  
        Settings for Vendor Integration  
          Define BP Role for Direction Vendor to BP

#### 1.3.3.3) Settings for Vendor Integration - Assign Keys

SPRO:

Cross-Application Components  
  Master Data Synchronization  
    Customer/Vendor Integration  
      Business Partner Settings  
        Settings for Vendor Integration  
          Field Assignment for Vendor Integration  
            Assign Keys  
              Define Number Assignment for Direction BP to Vendor  
              Define Number Assignment for Direction Vendor to BP

1.3.3.4) Assignment of attributes that are stored differently in the business partner than in the vendor or assignment of attributes that have different values.

SPRO:

Cross-Application Components  
  Master Data Synchronization  
    Customer/Vendor Integration  
      Business Partner Settings  
        Settings for Vendor Integration  
          Field Assignment for Vendor Integration  
            Assign Attributes  
            Assign Industries

#### 1.3.4) Business Add-Ins (BAdIs)

The following BAdIs are available for customer-specific mapping

SPRO:

Cross-Application Components  
  Master Data Synchronization  
    Customer/Vendor Integration  
      Business Partner Settings  
        Business Add-Ins (BAdIs)  
          BAdI: Data Assignment BP <-> Customer/Vendor/Contact Person  
          BAdI: Data Assignment of Bank Details BP -> Customer/Vendor  
          BAdI: Data Assignment of Payment Cards BP <-> Customer  
          BAdI: Data Assignment of Form of Address from Customer/Vendor to  
BP  
          BAdI: Defaults for Creating Data from BP to Customer/Vendor

## 2) Migration Reports

Note 851445 ("BP\_CVI: BP\_CVI: Details for the reports to be executed for ERP 2005") lists the migration reports that are relevant within the new CVI. Read the documentation of the reports before you execute them.

- o You must run the reports for analyzing and synchronizing the tax numbers CVI\_ANALYZE\_CUST\_TAX\_NUMBERS, CVI\_SYNC\_CUST\_TAX\_NUMBERS, CVI\_ANALYZE\_VEND\_TAX\_NUMBERS and CVI\_SYNC\_VEND\_TAX\_NUMBERS before you process the business partner or the relevant customers/vendors in the dialog. Otherwise, the tax numbers mentioned may be lost.

- o As the old links are evaluated as well, you do not have to migrate the links to ensure that the new CVI works correctly. As the search helps in the business partner for für customers/vendors use the new link tables, you should also migrate the links using the reports CVI\_MIGRATE\_CUST\_LINKS und CVI\_MIGRATE\_VEND\_LINKS as soon as possible.
- o If you use the report CVI\_ADJUST\_ROLE\_CUSTOMIZING, all of the obsolete applications and datasets of the affected business partner views are replaced with new views. Furthermore, the field modification status of the obsolete field groups that has been defined for the affected business partner roles is transferred to the new field groups so that a manual control is not required.

### 3) Additional important consulting notes with regard to the new CVI

- o 928616 BP\_CVI: Customiz of required entry fields at BP/cust/vendor
- o 941955 BP\_CVI: Integration of FI customers/vendors with SAP BP (the attachment of this note provides technical information about the new CVI)
- o 954816 BP\_CVI: Transactions for creating/linking BPs

## Header Data

Release Status: Released for Customer  
 Released on: 27.10.2008 11:35:14  
 Priority: Recommendations/additional info  
 Category: Consulting

Main Component FS-BP Business Partner

## Valid Releases

Software Component	Release	From Release	To Release	and Following
SAP_APPL	600	600	600	X

## Related Notes

Number	Short Text
954816	BP_CVI: Transactions for creating/linking BPs
941955	BP_CVI: Integration of FI customers/vendors with SAP BP
928616	BP_CVI: Customiz of required entry fields at BP/cust/vendor
907860	ERP 2005: Details of business partner administration
852991	BP_CVI: Extension options of CVI in ERP 2005
852870	BP_CVI: Changes in BDT Customizing for ERP 2005

**SAP** Note 956054 - **BP\_CVI Customer-vendor integration as of ERP2005 (ECC600)**

Number	Short Text
851445	BP_CVI: Details about reports to be executed for ERP 2005