



UPGRADE GUIDE | PUBLIC

2019-08-13

# **Business Partner Conversion Activities**

## **From SAP ERP to SAP S/4HANA**

# Content


- 1 Business Partner Conversion Activities. . . . . 4**
- 2 Business Partner Approach (Customer/Supplier Integration). . . . . 5**
- 3 Master Data Consistency Check for Business Partner Conversion. . . . . 6**
- 4 Prepare Customizing and Mapping Tables for Business Partner Conversion. . . . . 7**
  - 4.1 Number Assignment. . . . . 12
- 5 Convert Customer/Supplier Data Into Business Partner. . . . . 15**
- 6 Appendix. . . . . 17**
  - 6.1 CVI\_MIGRATION\_PRECHK. . . . . 17
  - 6.2 CVI\_UPGRADE\_CHECK\_RESOLVE. . . . . 19
  - 6.3 PRECHECK\_UPGRADATION\_REPORT. . . . . 24
  - 6.4 MDS\_LOAD\_COCKPIT. . . . . 27
  - 6.5 MDS\_PPO2. . . . . 28

# Document History

The following table provides an overview of the most important document changes.

Version	Date	Description
3.2	2019-08-13	<ul style="list-style-type: none"><li>• Updated section 6.2 with correct IMG paths</li><li>• Updated section 6.2 with functional changes</li></ul>
3.1	2019-05-03	<ul style="list-style-type: none"><li>• Updated section 6.1 with redirection feature</li><li>• Updated section 5 with SAP Note 2780288</li></ul>
3.0	2019-03-15	<ul style="list-style-type: none"><li>• Added sections 3 and 6.1 for Master Data Consistency Check</li><li>• Updated section 5 Prerequisites</li></ul>
2.0	2017-04-07	Updated sections 4 and 5.1
1.0	2017-01-31	Preliminary Version

# 1 Business Partner Conversion Activities

This guide provides an end to end guidance on business partner conversion activities. This guide is part of [2265093](#)  Business Partner Approach.

## 2 Business Partner Approach (Customer/Supplier Integration)

This section introduces the Business Partner Approach that is primarily relevant to customers who are migrating from SAP ERP to SAP S/4HANA.

### i Note

The recognized term is CVI (Customer/Vendor Integration), but for this release we will refer to Customer/Supplier Integration or when necessary, the abbreviation CVI.

Only customers with Customer/Supplier Integration in place can move to SAP S/4HANA. SAP Business Suite customers can move from different start releases to SAP S/4HANA. To ensure a successful conversion, all customers and suppliers must be converted to BP (Business Partners) in the system. This is also true for the business partners that are already in use. When the customer/supplier transformation process is triggered, the system posts all required fields into the business partner. The Business Partner is the leading object while creating customer or supplier master data.

Supplier and Customer Master Data are widely used within SAP ERP, and customizing settings have to be maintained correctly so that data can be completely converted without additional settings. You can process both Customer/Supplier master records from business partner maintenance, as well as maintain data from customer/supplier processing to the business partner.

To ensure a successful upgrade all customers/suppliers must be converted to a Business Partner and all contacts that relate to customer or supplier must be converted to a Business Partner including customers, suppliers, and assigned contacts with the deletion flag. See [2265093](#) for more information.

### i Note

Retail customers who are migrating to SAP S/4HANA, see [2310884](#).

# 3 Master Data Consistency Check for Business Partner Conversion

## Context

While migrating to SAP S/4HANA, you need to convert your customer and vendor master data to business partner. The `CVI_MIGRATION_PRECHK` report performs the necessary business checks for customer and vendor master data if you are intending to migrate to SAP S/4HANA.

### i Note

This report covers only the most important master data functional checks with respect to business partner conversion. The list of checks is not as extensive as the checks that are taken place in `MDS_LOAD_COCKPIT` during the actual conversion.

## Procedure

1. Execute [CVI\\_MIGRATION\\_PRECHK \[page 17\]](#) report to perform master data consistency check.
2. You can check the output *Master Data Consistency Check - Results* to see the errors.
3. Make necessary corrections to your current master data to ensure smooth conversion to business partner.

# 4 Prepare Customizing and Mapping Tables for Business Partner Conversion

## Context

Before the conversion to S/4HANA, ensure that the following settings are maintained correctly in the relevant Customizing and that the mapping tables are maintained.

## Procedure

1. Use report [CVI\\_UPGRADE\\_CHECK\\_RESOLVE \[page 19\]](#) to perform the necessary checks per client, to find out missing customizing entries, and solution to create/correct these entries for each client. For information about this report, see SAP Note [2344034](#).

In addition, run the [PRECHECK\\_UPGRADATION\\_REPORT \[page 24\]](#) which determines the mapping entries that are missing between CVI data and BP data, and missing Customizing entries.

For information about this report, see SAP Note [2211312](#). For the customer transformation to business partner one number range has to be set as "Internal Standard Group", otherwise the business partner is not created.

### Manual Customizing in Transaction SPRO:

2. Synchronization Object BP is active (PPO Active equals true)

Customizing Path

► [Cross-Application Components](#) ► [Master Data Synchronization](#) ► [Synchronization Control](#) ► [Synchronization Control](#) ► [Activate PPO Requests for Platform Objects in the Dialog](#) ►

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3. Active Synchronization between Customer/Supplier and BP is active
  - Source Object Customer and Target Object BP must be active (Act.Ind equal true)
  - Source Object Supplier and Target Object BP must be active (Act.Ind equal true)

Customizing Path

► [Cross-Application Components](#) ► [Master Data Synchronization](#) ► [Synchronization Control](#) ► [Synchronization Control](#) ► [Activate Synchronization Options](#) ►

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4. Active Creation of Postprocessing Orders for component AP-MD
  - a. Activate the Business Process CVI\_01, ► [Customer](#) ► [Business Partner](#) ►

b. Activate the Business Process CVI\_02. ►► *Supplier* ► *Business Partner* ►

Customizing Path ►► *Cross-Application Components* ► *General Application Functions* ► *Postprocessing Office* ► *Business Processes* ► *Activate Creation of Postprocessing Orders* ►

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After the successful synchronization of data, you can also activate the Postprocess Orders for CVI\_03 and CVI\_04 for direction ►► *Business Partner* ► *Customer /Supplier* ►.

5. Customer/Supplier number range and numeric numbers

- If the Customer/Supplier number range is already disjoint, we recommend that as a mirror image of the customer/supplier number range the business partner number range should be defined.
- If Customer/Supplier number range is not disjoint, we recommend that you maintain the business partner number range in such a way that the most numbers from customer/supplier can be reused.
- Customer/Supplier numeric numbers should be taken over to business partner

→ Recommendation

To allow the customer/supplier numeric numbers to be taken over to the business partner, the numeric intervals of the business partner number ranges must be set to external.

After the successful synchronization of data, the numeric intervals of the business partner must be changed back to internal. Additionally, the customer/supplier numeric number range must be set to external to allow identical numbers for customer/supplier and business partner.

Access and check the customer number range transaction by under the following customizing path:

Customizing Path ►► *Logistics - General* ► *Business Partner* ► *Customers* ► *Control* ► *Define and Assign Customer Number Ranges* ►

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Access and check the supplier number range transaction under the following customizing path:

Customizing Path ►► *Logistics - General* ► *Supplier* ► *Customers* ► *Control* ► *Define Number Ranges for Supplier Master Records* ►

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Access the business partner number range transaction under the following customizing path:

Customizing Path ►► *Cross-Application Components* ► *SAP BusinessPartner* ► *Business Partner* ► *Basic Settings* ► *Number Ranges and Groupings* ► *Define Number Ranges/Define Groupings and Assign Number Ranges* ►

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SAP recommends that you allocate for new business partners identical numbers when assigning numbers to customer/supplier and business partners. However, this is not possible in every case, for example, if SAP business partners already existed in the system prior to conversion and the number ranges overlap. For more information and an example, see Number Assignments.

Access the number range transaction under the following customizing path and the set the indicator *Same Numbers*:

Customizing Path ▶ *Cross-Application Components* ▶ *Master Data Synchronization* ▶ *Customer/Supplier Integration* ▶ *Business Partner Settings* ▶ *Settings for Customer Integration* ▶ *Field Assignment for Customer Integration* ▶ *Assign Keys* ▶ *Define Number Assignment for Direction BP to Customer/Supplier* ▶

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## 6. Business Add-Ins(BADIs)

You can implement customer-specific mappings like Form of Address from Customer/Supplier to Business Partner using the available BADIs. Here it would also be possible to create a Business Partner in a different category, for example, person instead of organization. In this case, you have to deactivate the enhancement CVI\_MAP\_TITLE\_DIRECT and activate the enhancement implementation CVI\_MAP\_BP\_CATEGORY in the IMG. The implementation is already available.

Customizing Path ▶ *Cross-Application Components* ▶ *Master Data Synchronization* ▶ *Customer/Supplier Integration* ▶ *Business Partner Settings* ▶ *Business Add-Ins (BADIs)* ▶

- BAdI: ▶ *Data Assignment BP* ▶ *Customer/Supplier/Contact Person* ▶
- BAdI: ▶ *Data Assignment of Bank Details BP* ▶ *Customer/Supplier* ▶
- BAdI: ▶ *Data Assignment of Payment Cards BP* ▶ *Customer* ▶
- BAdI: *Data Assignment of Form of Address from Customer/Supplier to BP*
- BAdI: *Defaults for Creating Data from BP to Customer/Supplier*

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## 7. BP roles are assigned to account groups

Customizing Path

For customer: ► [Cross-Application Components](#) ► [Master Data Synchronization](#) ► [Customer/Supplier Integration](#) ► [Business Partner Settings](#) ► [Settings for Customer Integration](#) ► [Define BP Role for Direction Customer to BP](#) ►

For supplier: ► [Cross-Application Components](#) ► [Master Data Synchronization](#) ► [Customer/Supplier Integration](#) ► [Business Partner Settings](#) ► [Settings for Supplier Integration](#) ► [Define BP Role for Direction Supplier to BP](#) ►

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8. For every account group BP Grouping must be available

Customizing Path

For customer: ► [Cross-Application Components](#) ► [Master Data Synchronization](#) ► [Customer/Supplier Integration](#) ► [Business Partner Settings](#) ► [Settings for Customer Integration](#) ► [Field Assignment for Customer Integration](#) ► [Assign Keys](#) ► [Define Number Assignment for Direction Customer to BP](#) ►

For supplier: ► [Cross-Application Components](#) ► [Master Data Synchronization](#) ► [Customer/Supplier Integration](#) ► [Business Partner Settings](#) ► [Settings for Supplier Integration](#) ► [Field Assignment for Supplier Integration](#) ► [Assign Keys](#) ► [Define Number Assignment for Direction Supplier to BP](#) ►

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9. For Customer Value Mapping

Customizing Path

► *Cross-Application Components* ► *Master Data Synchronization* ► *Customer/Supplier 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 Authority of Contact Person*

► *Cross-Application Components* ► *Master Data Synchronization* ► *Customer/Supplier 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*

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## 10. For Supplier Value Mapping

Customizing Path

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

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## 11. For Checking Direction from Customer to BP

Customizing Path

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

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## 12. For Checking Direction from Supplier to BP

### 13. For Checking Direction from BP to Customer/Supplier

- You must ensure that the entries that you have maintained in **Assign Department Numbers for Contact Person** (during precheck) are available in Customizing for Business Partner under ► [Cross-Application Components](#) ► [SAP Business Partner](#) ► [Business Partner Relationships](#) ► [Contact Person](#) ► ►
  - Define Departments
  - Define Functions
  - Define Powers of Attorney
  - Define VIP Entries
- You must ensure that the entries that you have maintained in **Assign Marital Statuses** (during precheck) are available in Customizing for Business Partner under ► [Cross-Application Components](#) ► [SAP Business Partner](#) ► [Business Partner](#) ► [Persons](#) ► [Marital Statuses](#) ► [Maintain Marital Status](#) ►
- You must ensure that the entries that you have maintained in **Assign Legal Form to Legal Status** (during precheck) are available in Customizing for Business Partner under ► [Cross-Application Components](#) ► [SAP Business Partner](#) ► [Business Partner](#) ► [Maintain Legal Forms](#) ►
- You must ensure that the entries that you have maintained in **Assign Payment Cards** (during precheck) are available in Customizing for Business Partner under ► [Cross-Application Components](#) ► [Payment Cards](#) ► [Maintain Payment Card Type](#) ►
- You must ensure that the entries that you have maintained in **Assign Industries** (during precheck) are available in Customizing for Business Partner under ► [Cross-Application Components](#) ► [SAP Business Partner](#) ► [Organizations](#) ► [Maintain Industry Systems and Industries](#) ►

#### Mapping Tables

14. The CVI pre-check logic compares all KNA1/LFA1 entries with the entries in the CVI\_CUST\_LINK and CVI\_VEND\_LINK mapping tables. For contacts that relate to existing KNA1/LFA1 entries, the pre-check logic compares all KNVK entries that have assigned Customers (field KUNNR) and Suppliers (field LIFNR) with the entries in the CVI\_CUST\_CT\_LINK and CVI\_VEND\_CT\_LINK mapping tables.

## 4.1 Number Assignment

SAP recommends that you keep the customer/supplier number the same when converting to Business Partner (BP). When the same number is used for a different customer and supplier, you must then give one of them a different BP number. If you assign identical numbers, this avoids confusion at the application level (when two different numbers appear for the business partner within a transaction). To use identical numbers, you need some background information on the customer/supplier and business partner number range. The business

partner in table BUT000, the customer in table KNA1 and the supplier in table LFA1 have independent number ranges.

For the sake of simplification we are focusing in this example on the business partner and customer. You create each business partner in a particular business partner group. The account group defines the number range of the customer master record. Both groups determine the number range in which a business partner and a customer are created. The link between the three objects has to be configured in the Customer/Supplier Integration (known as CVI). Before you can assign identical numbers you have to make sure that the number ranges fit into each other.

The following example shows existing business partners created with internal numbers and customer created with internal numbers with overlapping number range 01.

#### BP Groupings

Grouping	Short Name	Description	Number range	External
0001	Int.No.Assgnmnt	Internal Number Assignment	01	-

#### Intervals Business Partner

NR	From No.	To Number	Nr Status	Ext
01	0000000001	0999999999	5000	-

#### Account Groups

Group	Name	Number Range
DEBI	Customer (general)	01

#### Intervals Customer

NR	From No	To Number	Nr Status	Ext
01	0000100000	0000199999	100010	-

Since only *To Number* can be changed for an internal number range you have to do the following:

1. Change the *To Number* for the business partner interval to 0000099999, for example.
2. Create a new range 02 and mark for external.

#### Intervals Business Partner

NR	From No.	To Number	Nr Status	Ext
01	0000000001	0000099999	5000	-
02	0000100000	0000199999	-	x

3. Change the BP Groupings Number Range to 02.

BP Groupings

Grouping	Short Name	Description	Number range	External
0001	Int.No.Assgnmnt	Internal Number As- signment	02	X

During the transformation the new business partners are now created out of the customer with the same numbers.

After the initial load you should change the number range again in such a way that new identical numbers are created for business partner and customers by defining a new range for business partner and customer.

1. Create a new intervals business partner range 03.

Intervals Business Partner

NR	From No.	To Number	Nr Status	Ext
01	0000000001	0000099999	5000	-
02	0000100000	0000199999	-	x
03	0000200000	0000300000	-	-

2. Change the BP groupings number range to 03

BP Groupings

Grouping	Short Name	Description	Number range	External
0001	Int.No.Assgnmnt	Internal Number As- signment	03	-

3. Change the account groups range to 02

Group	Name	Number Range
DEBI	Customer (general)	02

# 5 Convert Customer/Supplier Data Into Business Partner

## Prerequisites

- You have checked master data consistency as described in [Master Data Consistency Check for Business Partner Conversion \[page 6\]](#) and made necessary corrections.
- You have checked and adapted the customizing, and created the Customer/Supplier Integration (known as CVI) and contact person mapping as described in [Prepare Customizing and Mapping Tables for Business Partner Conversion \[page 7\]](#).

## Context

Carry out the conversion process in the sequence below and repeat it if necessary.

### i Note

The total conversion time depends on different factors, such as:

- BP/CVI/Precheck know-how
- Customer/Supplier/BP number ranges
- BP Customizing consistency including field attributes
- Customer/Supplier/Business Partner data consistency
- Customer/Supplier Enhancements (Extensions)
- Data volume

## Procedure

1. Execute the [CVI\\_UPGRADE\\_CHECK\\_RESOLVE \[page 19\]](#) report. See [2344034](#).
2. Go to [CVI Synchronization](#) > [Synchronization Cockpit](#). The synchronization cockpit runs the transaction [MDS\\_LOAD\\_COCKPIT \[page 27\]](#). The non-synchronized customer/supplier data automatically get downloaded to your temp folder. You can use the [Read File](#) button in [MDS\\_LOAD\\_COCKPIT \[page 27\]](#) to upload the data for synchronization.

There is a default BAdI implementation (CVI\_CUSTOM\_MAPPER) called up in the direction Customer/Supplier to Business partner, to bypass the following checks:

- Postal Code
- Tax Jurisdiction Code
- Country

- Region
- Email
- Bank

### i Note

You can activate the field check suppression using the Customizing activity *Activate Field Check Suppression* under **► Cross-Application Components > Master Data Synchronization > Customer/ Vendor Integration** . The CVI\_CUSTOM\_MAPPER BAdI is called for the activated field checks for suppression.

See [2336018](#), [2345087](#), and [2780288](#) for more information on these checks.

- In case of errors occur during the synchronization process due to data inconsistency, click the *Logs* button in [CVI\\_UPGRADE\\_CHECK\\_RESOLVE \[page 19\]](#). This runs the transaction [MDS\\_PPO2 \[page 28\]](#).
- In case of errors occurred due to Customizing mismatch, click *Suppress Logs* button in [CVI\\_UPGRADE\\_CHECK\\_RESOLVE \[page 19\]](#). Choose S/4H\_MIGRATION object from the value help and select the creation date range. This displays the logs pertaining to S/4HANA migration object and creation date.

### 3. Adjust the customizing if there are errors.

If there is a missing BP event (such as a missing function module), deactivate the event using transaction BUS7.

### i Note

If the system determines inconsistencies in data between the CVI Link tables (CVI\_CUST\_LINK, CVI\_VEND\_LINK, and CVI\_CUST\_CT\_LINK ) and the Business Partner tables, for example, BUT000, or vice versa, you should search for an SAP Note with the key word BP\_CVI.

For example, if a customer and a supplier exists with the same number representing the same legal entity the migration fails with the message *BP already exists*. SAP Note [954816](#) explains how you can solve this problem.

### 4. After conversion, reset the system settings to original state:

- Click *Complete* button in [CVI\\_UPGRADE\\_CHECK\\_RESOLVE \[page 19\]](#). This reverts only the country specific checks that were suppressed during migration.
- Deactivate the BAdI (CVI\_CUSTOM\_MAPPER) to revert the settings for suppressed checks such as Tax Jurisdiction Code check, Postal Code check, Address Regional check and so on.



# 6 Appendix

## 6.1 CVI\_MIGRATION\_PRECHK

Prevalidation: Master Data Consistency Check

### Purpose

This report performs the necessary business checks for customer and vendor master data if you are intending to migrate to SAP S/4HANA. This report gives an upfront overview of master data consistency that is required for conversion to business partner master data. You can run this report to check the following business scenarios:

- Tax Code
- Postal Code
- Email
- Bank Data
- Tax Jurisdiction
- Industry
- Transportation Zones
- Address
- Number Range

#### i Note

You can also add additional checks using the BAAd `CVI_CUSTOM_PRECHK` (transaction SE18) with custom implementation.

### Prerequisites

The *Run ID* is generated based on a customizable number range, which is part of standard content delivery. Note that this content is available in client 000.

### Selection

Select the parameters for the checks that report needs to perform. Then, execute the report.

- **General Selection** – You can choose the master data type; *Customer* or *Vendor*. You can also enter a customer or vendor number and specify its account group. Note that account group can undergo changes for a given customer or vendor, which may result inconsistent output.
- **Business Checks** – Choose the relevant checks that you want to carry out during migration precheck. You can also choose all checks using Select All check box. By default, all the scenarios are selected.
- **Technical Details**
  - **Server Group** – You can choose the predefined server group to be used for parallel processing, from the value help. This is a mandatory field.
  - **Description** – Enter a description for the run. This is a mandatory field.
  - **Background** – Choose to run the report in the background. The background processing is selected by default.

## Output

The report generates an output containing the status of each check that it performs. The *Run History* section displays the details of the run with a link to the output *Master Data Consistency Check - Results*. For foreground mode, the output screen automatically appears after every successful execution.

### Run History

- **Status**
  - If the status is green, this indicates that check is completed.
  - If the status is yellow, the run is still in progress.
  - If the status is red, the run is terminated. Click *Run ID* to view the error details.
- **Checks** - Double click to view the business checks that are considered for the corresponding run.
- **Run ID** - Indicates the unique identifier that is created for each run. Click *Run ID* to view the detailed output *Master Data Consistency Check - Results* of the corresponding run.
- Click on *Object ID* in the detailed description view. This redirects you to XK02 transaction for vendor and XD02 transaction for customer.
- **Description** - Displays the description that you have previously entered for each run.
- You can use *Refresh* button to view the latest status of each run.
- You can also select and *Delete* the completed logs.

### Master Data Consistency Check - Results

You can view a detailed list of errors, based on the business checks selected for the run.

## Activities

1. Enter the relevant parameters and execute the report. The *Server Group* and *Description* are mandatory fields.
2. Double click *Checks* to view the business checks that are considered for the corresponding run.
3. Click *Object ID* in detailed description view. This redirects you to XK02 transaction for vendor and XD02 transaction for customer.

## 6.2 CVI\_UPGRADE\_CHECK\_RESOLVE

### Use

You can use this report to perform the necessary checks per client. It also provides Customizing resolution program, where you can find out missing customizing entries and the solution to create/correct these entries for each client. The checks that the report executes are listed here:

- General Settings
  - Tax Classification
  - Address Number Range
- Customer/Supplier to Business Partner
  - Account Groups
  - Business Partner Grouping
  - Customer Attributes
  - Industry Key
- Business Partner to Customer/Supplier
  - Customer Value Mapping
  - Industry System
- CVI Synchronization

### Features

#### Selection

Select the checks to perform. Then, execute the report.

#### Output

The report generates an output containing the status of each check that it performs. If the status is green, this indicates that check is successful. If the status is red, you must follow the steps mentioned in this document to resolve the errors.

### Activities

Double click each section to view its message logs.

#### General Settings

In general system settings, you can view the missing *Tax Classification* and *Address Number Range* errors.

#### Tax Classification

You can view the error logs if you have not maintained the function module and Tax Number Type for the listed tax number categories.

1. Choose the relevant *Tax Number Type*.
2. Give the *Description* and click *Save* to maintain the data.
3. To manually maintain the value, click the error message and open the Customizing activity under ► *Cross Application components* ►► *SAP Business Partner* ►► *Business Partner* ►► *Basic Settings* ►► *Tax Number* ►► *Maintain tax number category* ►

### Address Number Range

You can view the error logs if the address number range object is exhausted or about to get exhausted.

1. Select the message entry to open the *Range Maintenance: Address Management* (transaction code SA01) screen.
2. Set the number range.

### Customer/Supplier to BP

The system checks for missing entries in the direction from Customer/Supplier to Business Partner.

### BP Roles are assigned to Account Groups

You receive the error logs if you have not maintained the role for the listed Account Group.

1. Choose the *Role* from the drop down list.
2. If the account group is not maintained, click *Check Customizing* button and then choose a *Number Range*. To automatically maintain the values, select the *Maintain Value Based on Suggestions* check box.
3. To manually maintain the values, click the error message to open corresponding Customizing activity:
  - For Customer - ► *Logistics – General* ►► *Business Partner* ►► *Customers* ►► *Control* ►► *Define Account Groups and Field Selection for Customers* ►
  - For Supplier - ► *Logistics – General* ►► *Business Partner* ►► *Suppliers* ►► *Control* ►► *Control* ►► *Define Account Groups and Field Selection (Supplier)* ►

### For every account group BP Grouping must be available

You receive the error logs if you have not maintained the BP Grouping for the listed Account Group.

1. Choose a *BP Grouping* from the drop down list.
2. If the account group is not maintained, click *Check Customizing* button and then choose a *Number Range*.
3. To automatically maintain the values, select the *Maintain Value Based on Suggestions* check box.
4. To manually maintain the value, click the error message to open corresponding Customizing activity:
  - For Customer - ► *Logistics – General* ►► *Business Partner* ►► *Customers* ►► *Define Account Groups and Field Selection for Customers* ►
  - For Supplier - ► *Logistics – General* ►► *Business Partner* ►► *Suppliers* ►► *Control* ►► *Define Account Groups and Field Selection (Supplier)* ►

### Customer Attributes

You receive the error logs if you have not maintained the mapping of different attributes between customer and BP side. You must make the value mapping from the dropdown provided for each of the section/attributes. To confirm the selection, select the check-box and then save the assignment. The system automatically selects the relevant values. To confirm the selection, save the assignment.

For Customizing errors, click *Check Customizing* button. To automatically maintain the values, select the *Maintain value based on suggestions* check box. Select *Existing Customizing* view existing mappings for the

same set of attributes. Select [Copy Over](#) function to auto-populate the matching entries/keys to the missing records/entries.

To manually maintain the value, select the error log entry to open the Customizing activity.

- Activate Assignment of Contact Persons  
The system automatically select the check box next to the contact person to activate assignment. To confirm the selection, save the assignment.
- Missing Department Numbers for Contact Person  
Customizing activity under [Sales and Distribution](#) [Master Data](#) [Business Partners](#) [Contact Person](#) [Define Standard Departments](#)
- Missing Functions of Contact Person  
Customizing activity under [Sales and Distribution](#) [Master Data](#) [Business Partners](#) [Contact Person](#) [Define Contact Person Functions](#)
- Missing Authority of Contact Person  
Customizing activity under [Sales and Distribution](#) [Master Data](#) [Business Partners](#) [Contact Person](#) [Define Authority](#)
- Missing VIP Indicator for Contact Person  
Customizing activity under [Sales and Distribution](#) [Master Data](#) [Business Partners](#) [Contact Person](#) [Define VIP Indicator](#)
- Missing Marital Statuses  
Customizing activity under [Personnel Management](#) [Personnel Administration](#) [Personal Data](#) [Personal Data](#) [Create Marital Status](#)
- Missing Legal Form to Legal Status  
Customizing activity under [Sales and Distribution](#) [Master Data](#) [Business Partners](#) [Customers](#) [Marketing](#) [Define Legal Statuses](#)
- Missing Payment Cards  
Customizing activity under [Sales and Distribution](#) [Billing](#) [Payment Cards](#) [Maintain Cards Types](#)

### Missing Industry Key

You receive the error messages if you have not assigned the Industry Key.

1. Select either [Incoming Industry](#) or [Outgoing Industry](#) radio buttons to view the corresponding error logs. In [Outgoing Industry](#), if you do not have the Industry Sectors proposed, do one of the following:
  - Choose a new [Industry System](#) from the screen above.
  - Click the error message and navigate to Customizing activity and maintain the values.

#### i Note

For [Outgoing Industry](#), multiple Industry keys cannot have the same [Industry Sector](#) under a particular [Industry System](#).

2. To confirm the selection, click [Save](#).
3. For Customizing errors, click [Check Customizing](#) button.
4. To automatically maintain the values, select the [Maintain value based on suggestions check box](#).

5. To manually maintain the values, select the error log entry to open the corresponding Customizing activity under:
  - For Customer: [Logistics – General](#) [Business Partner](#) [Customers](#) [Control](#) [Define Industries](#)
  - For Supplier: [Logistics – General](#) [Business Partner](#) [Suppliers](#) [Control](#) [Define Industries](#)

### Inconsistent Data

You receive these error messages if you have inconsistent data in the following sections:

- Tax data
- Industry/Location data
- Bank data

You have to correct the data to maintain consistency.

### BP to Customer/Supplier

The system checks for missing entries in the direction from Business Partner to Customer/Supplier.

### Customer Value Mapping

You receive the error logs if you have not maintained the relevant entries. The system automatically selects the relevant values. To confirm the selection, save the assignment.

For Customizing errors, click [Check Customizing](#) button. To automatically maintain the values, select the [Maintain value based on suggestions](#) check box. To manually maintain the value, select the error log entry to open the Customizing activity.

- Missing Department Numbers for Contact Person  
Customizing activity under [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](#)
- Missing Functions of Contact Person  
Customizing activity under [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](#)
- Missing Authority of Contact Person  
Customizing activity under [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](#)
- Missing VIP Indicator for Contact Person  
Customizing activity under [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](#)
- Missing Marital Statuses  
Customizing activity under [Cross-Application Components](#) [Master Data Synchronization](#) [Customer/Vendor Integration](#) [Business Partner Settings](#) [Settings for Customer Integration](#) [Field Assignment for Customer Integration](#) [Assign Attributes](#)

- Missing Legal Form to Legal Status  
Customizing activity under ► [Cross-Application Components](#) ►► [Master Data Synchronization](#) ►  
► [Customer/Vendor Integration](#) ►► [Business Partner Settings](#) ►► [Settings for Customer Integration](#) ►  
► [Field Assignment for Customer Integration](#) ►► [Assign Attributes](#) ►
- Missing Payment Cards  
Customizing activity under ► [Cross-Application Components](#) ►► [Master Data Synchronization](#) ►  
► [Customer/Vendor Integration](#) ►► [Business Partner Settings](#) ►► [Settings for Customer Integration](#) ►  
► [Field Assignment for Customer Integration](#) ►► [Assign Attributes](#) ►

### Missing Industry System

You receive the error messages if you have not assigned the Industry System.

1. Select either *Incoming Industry* or *Outgoing Industry* radio button to view the corresponding error logs.
2. The system automatically selects the *Industry Systems*. To confirm the selection, save the assignment.
3. You can select the Industry key from the drop down list.
4. To resolve Customizing errors, click *Check Customizing* button.
5. To automatically maintain the values, select the *Maintain value based on suggestions* check box.
6. To manually maintain the value select the error log entry to open the corresponding customizing activity under ► [Cross-Application Components](#) ►► [Master Data Synchronization](#) ►► [Customer/Vendor Integration](#) ►► [Business Partner Settings](#) ►► [Settings for Customer Integration](#) ►► [Field Assignment for Customer Integration](#) ►► [Assign Attributes](#) ►

### CVI Synchronization

You can synchronize the data, view logs, and revert the system settings to original settings after synchronization.

#### Synchronization Cockpit

The *Synchronization Cockpit* button runs the transaction [MDS\\_LOAD\\_COCKPIT \[page 27\]](#). You can use the cockpit to convert the customer/supplier data into an SAP business partner. It creates a corresponding SAP business partner for the customer and supplier data for general data, addresses, role data, bank details. You find detailed information about this in Customizing under ► [Cross Application Components](#) ► [Synchronization of Mass Data](#) ► [Execute Synchronization Cockpit](#) ►

#### Logs

The *Logs* button runs the transaction [MDS\\_PPO2 \[page 28\]](#) You can view the error state of Business Partner, Customer, and Supplier synchronization.

#### Suppress Logs

The *Suppress Logs* button displays the checks that were suppressed during migration due to Customizing mismatch. For example, a non mandatory field in customer becomes a mandatory field in business partner because of Customizing.

## 6.3 PRECHECK\_UPGRADATION\_REPORT

### Use

This report performs the necessary checks for Business Partner before upgrading to S/4HANA. The prechecks that the report executes are listed here:

- BP roles are Assigned to Account Groups
- Every Account Group BP Grouping Must be Available
- Customer Value Mapping
- Vendor Value Mapping
- CVI Mapping
- Contact Person Mapping
- Checking Direction from Customer to BP
- Checking Direction from Vendor to BP

Note that *CVI Mapping* and *Contact Person Mapping* are mandatory checks that you need to perform. The report also performs a post check, *Contact Person Attributes*.

### Prerequisites

Before you execute the report, ensure that you maintain the Customizing entries listed below for the checks that you want the report to perform:

#### Prechecks

- BP roles are assigned to account groups  
For Customer, you must maintain the entries in Customizing for Business Partner under ► [Cross-Application Components](#) ►► [Master Data Synchronization](#) ►► [Customer/Vendor Integration](#) ►► [Business Partner Settings](#) ►► [Settings for Customer Integration](#) ►► [Define BP Role for Direction Customer to BP](#) ►.For Vendor, you must maintain the entries in Customizing for Business Partner under ► [Cross-Application Components](#) ►► [Master Data Synchronization](#) ►► [Customer/Vendor Integration](#) ►► [Business Partner Settings](#) ►► [Settings for Vendor Integration](#) ►► [Define BP Role for Direction Vendor to BP](#) ►
- For every account group BP Grouping must be available  
For Customer, you must maintain the entries in Customizing for Business Partner under ► [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 Customer to BP](#) ►
- For Vendor, you must maintain the entries in Customizing for Business Partner under ► [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 Vendor to BP](#) ►



- For Customer Value Mapping

You must maintain the entries in Customizing for Business Partner under ► *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

You must maintain the entries in Customizing for Business Partner under ► *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

- For Vendor Value Mapping

You must maintain the entries in Customizing for Business Partner under ► *Cross-Application Components* ►► *Master Data Synchronization* ►► *Customer/Vendor Integration* ►► *Business Partner Settings* ►► *Settings for Customer Integration* ►► *Field Assignment for Vendor Integration* ►► *Assign Attributes* ►► *Assign Industries* ►

- For Checking Direction from Customer to BP

You must maintain the entries in Customizing for Business Partner under ► *Cross-Application Components* ►► *Master Data Synchronization* ►► *Customer/Vendor Integration* ►► *Business Partner Settings* ►► *Settings for Customer Integration* ►► *Define BP Role for Direction Customer to BP* ►

- For Checking Direction from Vendor to BP

You must maintain the entries in Customizing for Business Partner under ► *Cross-Application Components* ►► *Master Data Synchronization* ►► *Customer/Vendor Integration* ►► *Business Partner Settings* ►► *Settings for Vendor Integration* ►► *Define BP Role for Direction Vendor to BP* ►

### i Note

You must maintain the Customizing entries for the following checks.

- For CVI Mapping  
In transaction **SE 11**, ensure that you maintain in mapping tables, CVI\_CUST\_LINK and CVI\_VEND\_LINK, the same number of entries as in customer table KNA1 and vendor table LFA1.
- For Contact Person Mapping  
In transaction **SE 11**, ensure that you maintain in mapping tables, CVI\_CUST\_CT\_LINK and CVI\_VEND\_CT\_LINK, the same number of entries as in contact table KNVK with the condition KNVK with where condition KUNNR <> SPACE and KNVK with where condition LIFNR <> SPACE.

### POSTCHECK

- You must ensure that the entries that you have maintained in Assign Department Numbers for Contact Person are available in Customizing for Business Partner under [▶▶ Cross-Application Components ▶▶ SAP Business Partner ▶▶ Business Partner Relationships ▶▶ Contact Person ▶](#)
  - Define Departments
  - Define Functions
  - Define Powers of Attorney
  - Define VIP Entries
- You must ensure that the entries that you have maintained in Assign Marital Statuses for are available in Customizing for Business Partner under [▶▶ Cross-Application Components ▶▶ SAP Business Partner ▶▶ Business Partner ▶▶ Persons ▶▶ Marital Statuses ▶▶ Maintain Marital Status ▶](#)
- You must ensure that the entries that you have maintained in Assign Legal Form to Legal Status are available in Customizing for Business Partner under [▶▶ Cross-Application Components ▶▶ SAP Business Partner ▶▶ Business Partner ▶▶ Maintain Legal Forms ▶](#)
- You must ensure that the entries that you have maintained in Assign Legal Form to Legal Status are available in Customizing for Business Partner under [▶▶ Cross-Application Components ▶▶ SAP Business Partner ▶▶ Business Partner ▶▶ Maintain Legal Forms ▶](#)
- You must ensure that the entries that you have maintained in Assign Payment Cards are available in Customizing for Business Partner under [▶▶ Cross-Application Components ▶▶ Payment Cards ▶▶ Maintain Payment Card Type ▶](#)
- You must ensure that the entries that you have maintained in Assign Industries are available in Customizing for Business Partner under [▶▶ Cross-Application Components ▶▶ SAP Business Partner ▶▶ Organizations ▶▶ Maintain Industry Systems and Industries ▶](#)

## Features

### Selection

Based on your requirements, select the checks that you want the report to perform. Then, execute the report.

### Output

The report generates an ALV output containing the status of each check that it performs. If the status is green, this indicates that check is successful. If the status is red, you must click on the status icon to get more information on what caused the error and resolve the errors by maintaining the Customizing entries listed in

### Prerequisites.

## 6.4 MDS\_LOAD\_COCKPIT

### Use

You can use this report for the following purposes:

- Synchronize the customer/supplier data into SAP business partner during conversion from S/4HANA to S4/HANA
- Create or update a corresponding SAP business partner for the customer and supplier data for general data, addresses, role data, bank details and so on


### Prerequisites

Perform the checks, maintain the relevant Customizing entries, create the Customer/Supplier Integration (known as CVI) and contact person mapping as described in Prepare Customizing and Mapping Tables for Business Partner Conversion.

### Features

#### Selection

Following are the fields on the entry screen of the report:

- *Synchronization process* – You can select the Source Object/Target Object.
- *Customizing Synchronization* – This section lists the customized synchronization options.
- *Processing* – In this tab, you can specify various control parameters such as *Block Size*, *Queue Name*, *Server Group* and so on. Note that you need to enter values in this section only if you want to change the default values. Preferably use a smaller Block size (<50) for better performance.
- *Monitor* – The *Monitor* tab displays the logs after execution. You can select the entry and click *Call PPO* button. To see the status of the background jobs, select the entry, click *Queue* button and choose *Queue Monitor*.
- *Selection Criteria for Source Object*:
  - *Synchronization Scope* – You can select a relevant entry from the drop down list.
  - *Range of source object* – In the table, you can specify the *Field Name*, *Incl/Excl*, *Option*, and *Upper/Lower Limit* criteria for the data records you want to synchronize.
  - *Read File* - You can upload customer/supplier data for synchronization. For more information, see [2399368](#) 

#### Output

After synchronizing the data from the source object to the target object, the report displays the results in the *Monitor* tab.

## Activities

1. Call up transaction `MDS_LOAD_COCKPIT`. The *Synchronization Cockpit* screen appears.
2. Enter the relevant selection criteria.
3. Click *Start Synchronization* button or press **F8** to execute the report.
4. Select the *Monitor* tab to view the results.
5. Select the error entry and click *Call PPO* button. It navigates to `MDS_PPO2` transaction screen which displays the corresponding error details.

### i Note

Refer to `MDS_PPO2` documentation for further steps. Also you can directly call up transaction `MDS_PPO2` and enter the selection criteria to view error details.

## More Information

Preparing Synchronization Runs

## 6.5 MDS\_PPO2

### Use

You can use this report for the following purposes:

- View the error state of Business Partner, Customer and Supplier synchronization
- Set the error log statuses to Completed after resolving the error

### Prerequisites

Run the `MDS_LOAD_COCKPIT` program.

## Features

### Selection

You can choose a variant at *Variant Name* or enter the relevant selection criteria in *Selection Options*.

### Output

The reports displays synchronization errors and redirects you to the corresponding transactions to resolve the data errors. The report automatically synchronizes the data based on your synchronization selection.

## Activities

1. Call up transaction MDS\_PP02. The *Initial Screen* appears.

### i Note

You can directly reach the corresponding error details page in MDS\_PP02 by selecting the error message on *Monitor* tab after running MDS\_LOAD\_COCKPIT program.



2. Enter the selection criteria and select *Execute*.
3. On the *Overview* screen, double-click the *Business Partner* or *Customer/Supplier* number to view the corresponding error messages.
4. If it is a data error,
  1. Scroll down and select your source object tab.
  2. Choose *Display* or *Change* option. It opens the corresponding transaction page so that you can view or edit the data.
  3. Save the changes. The data automatically get synchronized to the target object.
5. If it is a Customizing error,
  1. Manually navigate to the corresponding Customizing table/activity and resolve the error.
  2. Start synchronization. You have two synchronization options:
    - *Individual Synchronization* - Synchronizes the selected source and target objects
    - *Mass Synchronization* - Synchronizes all source and target objects based on the selected error code
6. Once the errors are resolved, come back to MDS\_PP02, and manually set the error status by using *Complete* button.
7. After resolving synchronization errors, to know if any other errors have occurred, re-execute the MDS\_PP02 report using the date on which you corrected synchronization errors, as the selection criteria.

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