SAP S/4HANA - Business Partner & Customer Vendor Integration

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Agenda

- **Business Partner & Customer Vendor Integration**
  - BP & CVI in S/4HANA – Introduction
  - CVI Conversion process
  - Impact on Custom Code and Interfaces
  - Lessons Learned
  - CVI Conversion Approach and Recommendation
  - Additional Information
Agenda

- Business Partner & Customer Vendor Integration
  - BP & CVI in S/4HANA – Introduction
  - CVI Conversion Process
  - Impact on Custom Code and Interfaces
  - Lessons Learned
  - CVI Conversion Approach and Recommendation
  - Additional Information
S/4HANA - Business Partner

- Harmonized architecture across applications
- Strategic object model in SAP S/4HANA
- BP Categories – Organization, Person, Group
- Relationships between BPs ("Is Contact Person For", "Is Service Provider For")
- Multiple roles such as customer, vendor
- Multiple addresses
- General data shared across different roles
- Time dependent addresses, bank data, relationships
- General data shared across different roles
**S/4HANA – Customer Vendor Integration (CVI)**

- CVI must be implemented for using Business Partner as the leading object in S/4HANA

- SAP supports the conversion of existing ERP Customers and Vendors to Business Partner using guided procedures and reports prior to system conversion

- CVI ensures that Customer and Vendor tables (KNxx / LFxx) are updated automatically after a BP is created/changed in S/4HANA

- The CVI component ensures the synchronization between the Business Partner object and the Customer/Vendor objects in S/4HANA
Business Partner creation is the first step in the creation of Customers and Suppliers.

Technically, the Customer-Vendor-Integration (CVI) takes care of the general Business Partner data as well as the Customer and Supplier specific data.

Partially, the data of the Business Partner and Customer/Supplier are redundant to provide consistent process information for all ERP applications which do not use BP.

While saving all Business Partner and Customer/Supplier data are updated.

Distribution of Business Partner is provided by Idocs/SOA Services using Data Replication Framework (DRF).
Simplified Business Partner Data Model

Business Partner Data
- Central Data
- Roles
- Bank Details
- Identification Numbers
- Tax Numbers
- Industry Sectors
- Relationships
  - Contact Partners
- Address
  - Address Usages
- ERP Vendors
- ERP Customers

Vendor Data
- General Data
- Company Code Data
- Purchasing Org. Data

Address Data
- Address
  - Phone
  - Fax
  - Email
  - URL

Customer Data
- General Data
- Company Code Data
- Sales Org. Data

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BP & CVI in S/4HANA – Business Impact

SAP ERP
- CVI Implementation
- Convert Data
- Continue to use Customer / Vendor transactions
- Use of BP transaction is not recommended

SAP S/4HANA
- Only transaction BP is used
- Transactions VA01, ME21N, etc will still require customer / vendor numbers

Leading Object
- Business Partner

Roles
- Customer
- Vendor
- Contact Person
BP & CVI in S/4HANA – Business Impact

- ERP transactions that are no longer available or redirected to transaction BP:
  
  - FD01, FD02, FD03, FD05, FD06
  - FK01, FK02, FK03, FK05, FK06
  - MAP1, MAP2, MAP3
  - MK01, MK02, MK03, MK05, MK06, MK12, MK18, MK19
  - V-03, V-04, V-05, V-06, V-07, V-08, V-09, V-11, V+21, V+22, V+23
  - VAP1, VAP2, VAP3
  - VD01, VD02, VD03, VD05, VD06
  - XD01, XD02, XD03, XD05, XD06, XD07
  - XK01, XK02, XK03, XK05, XK06, XK07
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CVI Conversion Process

Preparation
- Activate BF
- CVI Configuration

Synchronization
- Pre-check reports
- Synchronization Cockpit
- Completion Check

Conversion
- Pre-Check
- SUM

Post Processing / Test
- Activate BP->Cust/Vendor
- Test

Consultants are involved in the transformation activities

Application contacts are involved in the transformation activities

Greenfield implementation - Only Post Processing/Test step is required, follow Best Practice Building Block J61

Precondition: ERP release level needs to be at SAP ERP 6.0, EhP 0-8.

If your system is at EhP 0-4 and vendor contact person is used, apply SAP Note 2383051 – Development of vendor contact person mapping to business partner

Note: Best Practice configuration parameters are shown in J61. If a project is not based on Best Practice, use those configuration parameters as reference only.
CVI Conversion - Preparation

**Preparation**
- Activate BF
- CVI Configuration

**Synchronization**
- Pre-check Reports

**Conversion**
- Synchronization Cockpit
- Completion Check
- Pre-Check
- SUM

**Post Processing / Test**
- Activate BP->Cust/Vendor
- Test

**Task:**
- Archive Customer/Vendor data with deletion flag (optional)
- Activate Business Functions
- Check and integrate enhancements
- Implement Check Reports
- Check and adjust CVI/BP Customizing
- Run Pre-Conversion Checks

**ERP**  
**S/4 HANA**

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CVI Conversion – Preparation
Business Function Activation

Activate Business Functions
- CA_SUPPLIER_SOA
- CA_BP_SOA

Switches VENDOR_SFWS_SC1 and VENDOR_SFWS_SC2 have to be active for the vendor contact person data to be synchronized with BP contact persons and make sure that the switches have “Global status” as On.
See SAP Note [1454441](https://support.sap.com) - Development of contact person for vendors.
CVI Conversion – Preparation

Check and Integrate Customer/Vendor Enhancement
To include customer-specific Customer/Vendor fields in transaction BP, it is necessary to integrate these additional fields in the Business Partner and CVI.

   2309153 - BP_CVI: Guideline Version 1.14 for customer enhancements in CVI (customer/vendor integration) in SAP S/4HANA releases
   1623809 - Developer documentation for the XO framework
   2295823 - BP_CVI: Transfer of customer / vendor fields to the business partner - template source code

Implement check reports:
- 2216176 - Precheck report from business partner (PRECHECK_UPGRADATION_REPORT)
- 1623677 - BP_CVI: Check report for checking CVI Customizing (CVI_FS_CHECK_CUSTOMIZING)
- 974504 - Inconsistencies in link tables of master data sync.
CVI Conversion – Preparation
Customizing Tasks

1. Activate the PPO Request for the synchronization object Business Partner
   
   **IMG Path**: Cross-Application Components -> Master Data Synchronization -> Synchronization Control -> Synchronization Control-> Activate PPO Requests for Platform Objects in the Dialog

2. Activate Synchronization between Customer/Vendor and BP
   
   **IMG Path**: Cross-Application Components -> Master Data Synchronization -> Synchronization Control -> Synchronization Control-> Activate Synchronization Options

3. Activate Creation of Post processing Orders (PPO) for component AP-MD
   
   **IMG Path**: Cross-Application Components -> General Application Functions -> Postprocessing Office -> Business Processes->Activate Creation of Postprocessing Orders
CVI Conversion – Preparation
Customizing Tasks

Number Range
4. If Customer and Vendor number ranges are not overlapping

5. If Customer and Vendor number ranges are overlapping

Recommendation
4. The business partner number ranges could be the same as the customer and vendor number ranges.

5. Maintain the business partner number range in such a way that the most numbers from customer or vendor stay unchanged.
CVI Conversion – Preparation
Customizing Tasks

6. Define Contact Person BP Number Range **Very Important Step**

CVI conversion report MDS_LOAD_COCKPIT will assign an internal BP number to contact person during conversion. The internal number range is the number range assigned to the internal standard grouping. If assigned internal number range overlaps with the targeted customer or vendor number ranges, the number range for contact person has to be changed to a new range outside the targeted BP numbers for the customers and vendors.

The overlap of the contact person number with its associated Business Partner numbers could cause error – R11124 “Business partner with GUID xxxxxxxxxxxxxxxxxxxx does not exist”.

![Change View "BP groupings": Overview](image)
CVI Conversion – Preparation
BAdI Implementation

The following BAdIs are provided for CVI data assignment. You can implement customer-specific mapping like Form of Address from Customer/Vendor to BP via the available BAdIs. During the CVI conversion process, it is possible to create a BP in different category e.g. person instead of organization. In this case you have to deactivate the BAdI Enhancement implementation CVI_MAP_TITLE_DIRECT and activate the implementation CVI_MAP_BP_CATEGORY via IMG. The implementation is already available.

2539457 - CVI and employee vendors in wrong BP category
2542175 - CVI and reuse of existing employee business partner

<table>
<thead>
<tr>
<th>IMG Path</th>
<th>BAdI Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cross-Application Components -&gt; Master Data Synchronization -&gt; Customer/Vendor Integration -&gt; Business Partner Settings -&gt; Business Add-Ins (BAdIs)</td>
<td></td>
</tr>
<tr>
<td>a. BAdI: Data Assignment BP &lt;-&gt; Customer/Vendor/Contact Person</td>
<td></td>
</tr>
<tr>
<td>b. BAdI: Data Assignment of Bank Details BP -&gt; Customer/Vendor</td>
<td></td>
</tr>
<tr>
<td>c. BAdI: Data Assignment of Payment Cards BP &lt;-&gt; Customer</td>
<td></td>
</tr>
<tr>
<td>d. BAdI: Data Assignment of Form of Address from Customer/Vendor to BP</td>
<td></td>
</tr>
<tr>
<td>e. BAdI: Defaults for Creating Data from BP to Customer/Vendor</td>
<td></td>
</tr>
<tr>
<td>a. CVI_CUSTOM_MAPPER</td>
<td></td>
</tr>
<tr>
<td>b. CVI_MAP_BANKDETAILS</td>
<td></td>
</tr>
<tr>
<td>c. CVI_MAP_CREDIT_CARDS</td>
<td></td>
</tr>
<tr>
<td>d. CVI_MAP_TITLE</td>
<td></td>
</tr>
<tr>
<td>e. CVI_DEFAULT_VALUES</td>
<td></td>
</tr>
</tbody>
</table>
CVI Conversion – Preparation
One BP for both Customer and Vendor

If the scenario where a single legal entity is represented in the ERP system as both customer and vendor, please refer to SAP Note 2363892. This note enables creation of a single BP with both customer and vendor roles. The MDS_LOAD_COCKPIT report converts such customers and the vendors to a single BP if Note 2363892 is applied and its restrictions are met. Otherwise, the customer or the vendor could be converted to a BP first. The remaining customer or vendor is linked to the BP via transaction FLBPD2 or FLBPC2, see Note 954816. The transaction can only create one BP role, e.g., FLVN00 or FLVN01.

Often the customer and vendor used for intercompany sales or plant-to-plant stock transport order (STO) have the same number assigned.
CVI Conversion – Preparation
Mapping Tasks

1. BP roles are assigned to account groups for customer and vendor. For customer enter BP Roles FLCU00 (company data) and FLCU01 (sales data). For vendor enter FLVN00 (company data) FLVN01 (Purchasing data).

2. For every customer/vendor account group a BP Grouping must be available.

NOTE: The screenshot field values in this document are for reference ONLY
CVI Conversion – Preparation
Mapping Tasks

3. Attribute Assignment for Contact Person
   a. Activate Assignment of Contact Persons
   b. Assign Department Numbers for Contact Person
   c. Assign Functions of Contact Person
   d. Assign Authority of Contact Person
   e. Assign VIP Indicator for Contact Person

4. Attribute Assignment for Customer
   a. Assign Marital Statuses
   b. Assign Legal Form to Legal Status
   c. Assign Payment Cards
   d. Assign Industries
CVI Conversion – Preparation
Mapping Tasks

3. Attribute Assignment for Contact Person
   a. Activate Assignment of Contact Persons

   - IMG Path: 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

   - IMG Path: 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 -> Assign Department Numbers for
     Contact Person

   b. Assign Department Numbers for Contact Person
CVI Conversion – Preparation
Mapping Tasks

3. Attribute Assignment for Contact Person
   c. Assign Functions of Contact Person

   IMG Path
   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 -> Assign Functions of Contact
   Person

   d. Assign Authority of Contact Person

   IMG Path
   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 -> Assign Authority of Contact Person
CVI Conversion – Preparation
Mapping Tasks

3. Attribute Assignment for Contact Person
e. Assign VIP Indicator for Contact Person

4. Attribute Assignment for Customer
a. Assign Marital Statuses
CVI Conversion – Preparation
Mapping Tasks

4. Attribute Assignment for Customer
   b. Assign Legal Form to Legal Status

c. Assign Payment Cards
CVI Conversion – Preparation
Mapping Tasks

4. Attribute Assignment for Customer
d. Assign Industries

Industry assignment for customer and vendor share the same configuration table.

Define outbound industry mapping means BP to Customer/Vendor mapping.

Define inbound industry mapping means Customer/Vendor to BP mapping.

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

IMG Path
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
CVI Conversion – Preparation
Customizing Check Report

Run CVI Customizing Check Report
CVI_FS_CHECK_CUSTOMIZING

This report checks the customizing in both directions: Customer/Vendor to BP and BP to Customer/Vendor Customization. The latter is done in S/4HANA in post processing or a greenfield implementation.

This report checks the customizing required for CVI and displays any errors/missing configuration. Adjust the configuration if necessary.

SAP Note: 1623677 - BP_CVI: Check report for checking CVI Customizing
CVI Conversion – Preparation
Mapping Check Report

Run pre-check report PRECHECK_UPGRADATION_REPORT to check and confirm if all the necessary CVI mappings are done.

This report checks the following before converting the customer/vendor to BP:

- BP roles are assigned to account groups
- Every account group is mapped to a BP group
- Customer attribute value mapping
- Vendor attribute value mapping
- CVI Link, CVI Mapping, and Contact Person Mapping checkboxes are checked by default. They are used after BP conversion to check if all customers/vendors/contact person are converted.

If there are errors, double click the red lights to see the detailed messages and correct the errors.
**CVI Conversion - Synchronization**

### Preparation
- Activate BF
- CVI Configuration

### Synchronization
- Pre-check Reports
- Synchronization Cockpit
- Completion check

### Conversion
- Pre-Check
- SUM

### Post Processing / Test
- Activate BP->Cust/Vendor
- Test

**Task:**
- Run MDS_LOAD_COCKPIT
- Run PRECHECK_UPGRADATION_REPORT

**ERP**

**S/4 HANA**
CVI Conversion – Synchronization

1. Run report MDS_LOAD_COCKPIT
2. Double click the desired synchronization Process
   Customer → Business Partner or
   Vendor → Business Partner
3. Filter the customer/vendor by account group or by numbers. To facilitate error analysis, run a small batch initially by selecting 10 to 50 customers or vendors.
4. Execute the report
5. It creates a corresponding BP for the customer, vendor and contact person.
CVI Conversion – Synchronization

5. If there are errors, select the monitor tab, and click the Call PPO icon.

6. PPO screen is displayed with the master data error list.

7. You could resolve the master data errors from the PPO screen or fix the errors outside PPO. See Synchronization Cockpit help document for more information.

8. Correct all master data errors and re-run the report to complete the conversion of customers/vendors/contact persons.
CVI Conversion – Synchronization
Mapping Check Report

Run PRECHECK_UPGRADATION_REPORT to check the completion of the conversion.

- Execute the report with the default selections. (bottom 3 checkboxes)
- CVI Mapping checks if all the customers/vendors are converted to BP, i.e., the number of entries in table CVI_CUST_LINK/CVI_VEND_LINK equals KNA1/LFA1).
- Contact Person Mapping checks if all contact persons have been converted to BP, i.e., CVI_CUST_CT_LINK and CVI_VEND_CT_LINK must contain the same number of entries as contact table KNVK with the condition KNVK with where condition KUNNR <> SPACE and KNVK with where condition LIFNR <> SPACE.
- Double click the red lights to see the detailed messages and resolve the errors
- Re-run MDS_LOAD_COCKPIT until all customers/vendors/contact person are converted to BP.
Task:
- System conversion from SAP ERP to SAP S/4HANA is completed
- No additional CVI related activities are required during this process.
CVI Conversion – Post Processing

**Task:**
- Activate synchronization direction BP ->Customer / Vendor
- BP and Customer/Vendor Customizing must be consistent including field attributes
- For Post Processing tasks, you may use Best Practice Building Block J61. If a project is not based on Best Practice, use those configuration parameters as reference only.
- Complete testing
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Impact on Custom Code and Interfaces

- There is limited impact on custom code.
  - Custom code calls to old transactions generally need not be adapted, they are automatically re-directed to the proper transaction.
  - However, the Call Transaction statement or Batch Input will not work with old transactions
- The API CL_MD_BP_MAINTAIN is used to create business partners in the same system
- To integrate BP/Customer/Supplier master data across different systems, IDOCs or SOA Service can be used. (SAP Note 2417298)
- The following interfaces for business partners still work in S/4HANA side-by-side implementation
  - CIF interface for business partner, e.g., SCM-EWM, TM
  - Middleware for BP synchronization, e.g., CRM
  - BW report on customers and vendors
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S/4HANA CVI Conversion
How much time do you need?

– The total CVI transformation time depends on different factors, such as
  – Customer/Vendor/BP number ranges complexity
  – Customizing consistency between BP and Customer/Vendor including field attributes
  – Customer/Vendor/Business Partner Data consistency and quality
    This can be a very long process if the master data needs cleansing, e.g., updating phone numbers/email address, tax code, etc. could be very time consuming
  – One customer or vendor could have multiple errors
  – Customer/Vendor Enhancements (Extensions)
  – Data volume
  – Master Data/CVI/Pre-Check Knowledge
S/4HANA CVI Conversion
Lessons Learned – Customizing/Master Data issues

Customizing issues (missing or incomplete customizing)
- Tax number categories
- Industries
- Address forms
- Departments
- Legal forms

Master Data quality issues
- Wrong format for dates, tax codes, trading partners, bank keys, bank account numbers, postal code, bank control key
- Missing / non existing links (e.g. customer <-> vendor)
- Non existing TAX and VAT values, bank numbers
- Missing links to ADRC table
S/4HANA CVI Conversion
Lessons Learned – Number range

Scenario:
Current sold-to, ship-to, bill-to and payer customers have different number ranges and reduced data input fields, and want to keep the same number ranges in BP

Root cause:
- Business requirement

How to resolve:
1. Define the same number ranges in BP.
2. Create BP Grouping for each customer account group, and assign the corresponding number range.
3. Map the customer account groups to the BP groupings between customer and BP
4. Create new BP roles for each account group if reduced data fields are used for the account groups
5. Assign the customer account groups to their corresponding BP roles
S/4HANA CVI Conversion
Lessons Learned – Configuration Issue

**Error:** Tax number category doesn’t exist

**Root Cause:** Missing tax number category entries in table TFKTAXNUMTYPE / view V_TFKTAXNUMTYPE

**How to resolve:**
Call the view V_TFKTAXNUMTYPE with transaction SM30, and add the missing Tax Number Category. Then maintain customizing at SPRO -> Cross-Application Components -> SAP Business Partner -> Business Partner -> Basic Settings -> Tax Numbers -> Maintain Tax Number Categories
S/4HANA CVI Conversion
Lessons Learned – Master Data quality issue

**Error:** Message No. BF00210 - Bank xxxxxx marked for deletion in country US

**Root cause:**
- System message is defaulted as error

**How to resolve:**
- Switch off the error message if acceptable to the business
  - Tcode - OBA5, Application area = BF00
  - Change “E” to “–” for the Online and Batch input settings.
S/4HANA CVI Conversion
Lessons Learned – Master Data quality issues

Miscellaneous Master Data Errors

**Root cause:**
- Human error in data entry

**How to resolve:**
- Change master data manually or via tools
- If the customer accepts the existing data quality due to time or resource constrain, and the check of the error is configuration, bypass check via configuration could be considered as a short term remedy so that S/4HANA conversion could start according to schedule. The data errors have to be fixed and the data error check is restored before go-live.

### Customer Conversion

<table>
<thead>
<tr>
<th>Error Message No.</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM129</td>
<td>The transport zone xxxxxxx is not defined for country xx</td>
</tr>
<tr>
<td>AR102</td>
<td>VAT Reg.No. xxxxxxxxxxx must have length 12</td>
</tr>
<tr>
<td>AR103</td>
<td>VAT Reg.No. xxxxxxxxxxxxxx is longer than 12 characters</td>
</tr>
<tr>
<td>AR104</td>
<td>Bank Key AAA must contain only numbers</td>
</tr>
<tr>
<td>AR129</td>
<td>Tax code n is not valid</td>
</tr>
<tr>
<td>AR191</td>
<td>ISO code XX is not correct in the VAT registration number</td>
</tr>
<tr>
<td>AR196</td>
<td>VAT registration number contains invalid characters</td>
</tr>
<tr>
<td>BF00211</td>
<td>Bank NO. does not exist</td>
</tr>
<tr>
<td>FSBP_FS_ATTRIBUTES015</td>
<td>Company xxx does not exist</td>
</tr>
<tr>
<td>GEOCODING002</td>
<td>Geocoder SAP0: Country specification is incomplete (Customizing)</td>
</tr>
<tr>
<td>R1286</td>
<td>Business partner x already exists</td>
</tr>
<tr>
<td>R11124</td>
<td>Business partner with GUID xxxxxxx does not exist</td>
</tr>
<tr>
<td>T5002</td>
<td>Telephone/fax code for country code XX is not maintained</td>
</tr>
</tbody>
</table>

### Vendor Conversion

<table>
<thead>
<tr>
<th>Error Message No.</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>AR 102</td>
<td>VAT Reg.No. BE448696957 must have length 12</td>
</tr>
<tr>
<td>AR 103</td>
<td>Tax Code 1 is longer than 16 characters</td>
</tr>
</tbody>
</table>
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S/4HANA CVI Conversion
CVI Conversion Approach and Recommendation

CVI Conversion Approach – Targets
- No downtime
- Not in a critical path in the S/4HANA conversion process
- No last minute surprise in effort or time

CVI Conversion Approach – Recommendation
- Perform CVI conversion in a sandbox with production data at early stage of the S/4HANA project
- Identify/analyze all data errors and strategize/plan error resolution
  Certain high volume master data errors may need custom program to make corrections. If the errors have no impact on the business process, workaround measures could be implemented via configuration by relaxing data validation.
- Assess the CVI conversion processing time from the test results of sandbox
- If the estimated conversion time is long and likely to impact the S/4HANA conversion project schedule, the CVI conversion could be done in advance according to the steps provided on the next slide
S/4HANA CVI Conversion
CVI Conversion Approach and Recommendation

Recommendation for completing CVI conversion in advance of the S/4HANA Conversion Project

- Configure CVI in ERP system for the synchronization of customer/vendor-to-BP in the production environment
- Complete the CVI conversion process (preparation and synchronization phases as explained in the earlier slides)
- The users will continue to use the ERP customer/vendor transactions as usual to create/maintain the customer/vendor master data and the CVI will create the business partners in the background automatically
- Lock the BP transaction in the ERP system to prevent usage of BP transaction
- (maybe a few months later) Start S/4HANA Conversion project as scheduled
- Convert the ERP system to S/4HANA
- Activate the CVI in the BP-to-Customer/Vendor direction in the S/4HANA system
- Make sure BP and Customer/Vendor Customizing is consistent including field attributes
- Complete the S/4HANA conversion project
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S/4HANA CVI Conversion

Additional Information

- SAP S/4HANA Cookbook Customer Vendor Integration
  [https://support.sap.com/content/dam/SAAP/SAP_Activate/S4H.0781%20SAP%20S4HANA%20Cookbook%20Customer%20Vendor%20Integration.pdf](https://support.sap.com/content/dam/SAAP/SAP_Activate/S4H.0781%20SAP%20S4HANA%20Cookbook%20Customer%20Vendor%20Integration.pdf)

- IS Utilities: SAP Note 2344100 - S4TWL - CVI Integration for SAP ISU
- Credit Management: SAP Note 2270544 - S4TWL - Credit Management
- IS Retail: SAP Note 2310884 - SAP S/4HANA conversion for site master
- HCM: SAP Note 2340095 - S4TWL - Conversion of Employees to Business Partners
- CRM: SAP Note 2285062 - S4TWL: Business partner data exchange between SAPCRM and S/4 HANA, on-premise edition
- [Simplification List – TOP Items Business Partner Approach / Customer-Vendor Integration (CVI)]
Thank you.

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