

TOP Item - Business Partner Approach: General Information TOP Item – At A Glance

Simplification List Item Description

- There are redundant object models in the traditional ERP system. Here the vendor master and customer master is used. The (mandatory) target approach in SAP S/4HANA is the Business Partner approach (Customer-Vendor Integration [CVI]).
- Business Partner is now capable of centrally managing master data for business partners, customers, and vendors. With current development, BP is the single point of entry to create, edit, and display master data for business partners, customers, and vendors.
- The specific tables for customer data (KNA1) and vendor data (LFA1) remain available and are not impacted.

Business Impact

- Only SAP Business Suite customer with C/V integration in place can move to SAP S/4HANA, on-premise edition (Conversion approach).
- It's recommended but not mandatory that BuPa ID and Customer-ID / Vendor ID are the same.
 Note: In case of overlapping number ranges for Customer and Vendor in Business Suite start system additional number range alignment is required!
- The user interface for SAP S/4HANA, on-premise edition is transaction BP and the Customer and Supplier Fiori App. The specific transaction codes to maintain customer/vendor separately like known from SAP Business Suite, are not available within SAP S/4HANA.

Required and Recommended Action(s)

- Execute the related conversion pre-checks. Adaption required in dependency to the pre-check results
- Necessary CVI Business Partner transformation customizing settings and checks must be performed (Note 2344034 - Report CVI_UPGRADE_CHECK_RESOLVE)
- Remove and avoid inconsistent customizing and inconsistent customer data (for example: Missing customizing tax types or inconsistent customer data like e-mail addresses without @-sign)

Overview

Specific

TOP Item - Business Partner Approach: Specific Information Overview Overview Specific Overview Related

S/4HANA future-oriented Business Partner

- In S/4 HANA we provide with the business partner as leading object additional embedded future-oriented features to provide new processes and improving the existing ones
- The BP transaction and the Customer/Supplier Apps are the single point of entry to create, edit, and display master data for business partners, customers, and vendors

S/4 HANA BP transformation requires the following steps

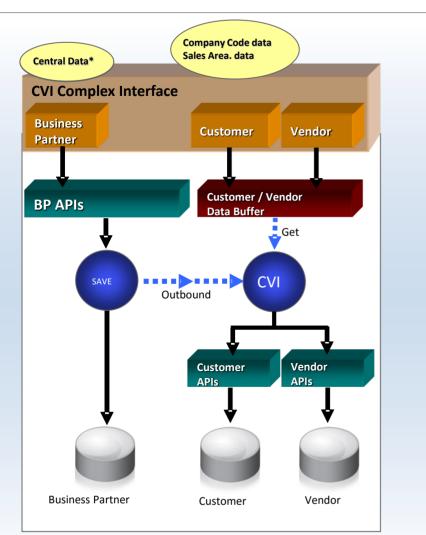
Preparation	Synchronization	Conversion Process	Post Processing
ERP: Cleanup Customizing/Data	Synchronisation Report/Cockpit	Pre-Check and SUM	Maintain and check
 Implement S/4 Pre-Checks Check and integrate Customer/Vendor enhancements Check CVI/BP Customizing Via Guided Report Manual via IMG Suppress or clean up Customer/Vendor data 	 Guided Report/Data Load Cockpit Troubleshooting Customizing/Data Adjustments Check Result 	Trigger conversion process to S/4 HANA	Activate direction BP>Customer and Vendor

TOP Item - Business Partner Approach: Specific Information Overview Specific Specific Business Partner Features Related

S/4HANA future-oriented Business Partner

- A legal entity is represented with one Business Partner
 - One unique Business Partner for different roles e.g. Customer, Supplier, Contact, (Employee not part of CVI)
 - A BADI solution during conversion can be provided to create a Business Partner (one legal entity out of a customer and vendor (Note 2363892)
- Different Business Partner Categories Organization, Person, Group
- Maximal data sharing and reuse of data which leads to an easier data consolidation
- General Data available for all different business partner roles, specific data is stored for each role
- Several Addresses possible with a default Address
- Flexible Business Partner Relationships possible like contact, married etc.
- Time dependency on different sub entities e.g. roles, address, bank data etc.
- Fiori User Interface with a specific Customer and Supplier Partner App

TOP Item - Business Partner Approach: Specific Information Integrated Object Model: Customer / Vendor Integration



Example: Customer Creation

A **Business Partner** is always created when a customer or supplier is created.

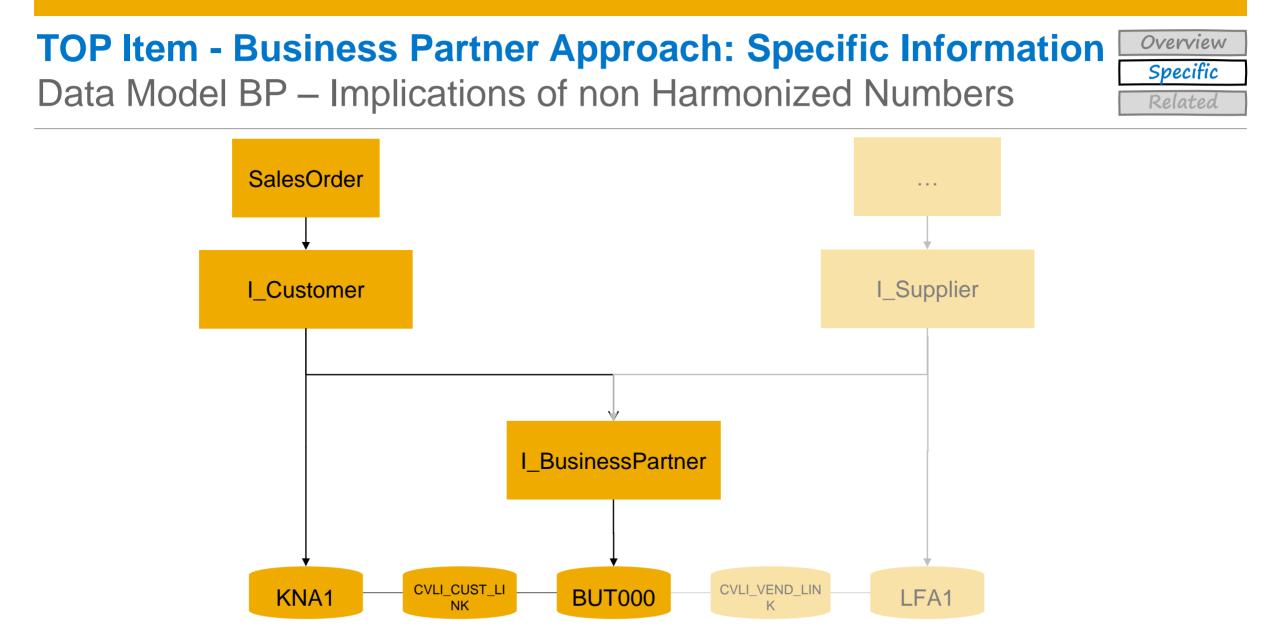
The complex interface of the CVI (Customer-Vendor-Integration) contains **Business Partner** specific data as well as **Customer and Vendor** specific data.

Partially, the data of the Business Partner and Customer/Vendor are redundant (BUT000 against KNA1 & LFA1 data). For instance 'Name and Address specific attributes' are available in both persistencies.

Customer or Vendor specific data is routed through the Customer/Vendor specific interface and mixed up with the Business Partner central data.

On commit, the **Business Partner and corresponding Customer and/or Vendor** is maintained / created. Overview

Specific



TOP Item - Business Partner Approach: Specific Information Business Impact and Precondition

Business Impact

- SAP Business Suite customer can move from different start releases to SAP S/4 HANA, on-premise edition
- Only SAP Business Suite customer with C/V integration in place can move to SAP S/4HANA, on-premise edition 1610
- To ensure a successful upgrade all customers/vendors and all contacts which relates to customer or vendor must be converted to a Business Partner including customers, vendors and assigned contacts with the deletion flag
- Before you execute the conversion SAP recommends to archive the customer/vendor with the deletion flag
- It's recommended but not mandatory that BuPa ID and Customer-ID / Vendor-ID are the same

Precondition

- As the Business Partner is used in different applications and the transformation needs also technical understanding it requires good business and technical expertise
- On-premise start release needs to have a minimum release level e.g. SAP ERP 6.0, EHP 0-7
- S/4 HANA Simplification list must be known
- Conversion Process must be known

Overview

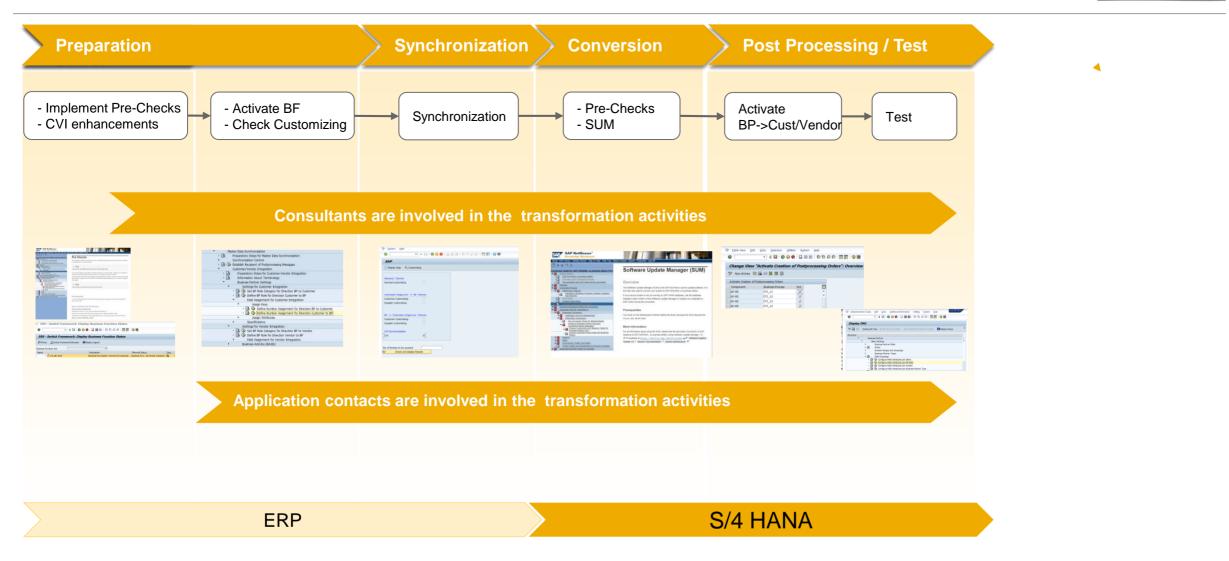
Specific

TOP Item - Business Partner Approach: Specific Information Overview Specific Specific Preparation Tasks Related

There are six main preparation tasks

- Implement Pre-Checks as described in Conversion Guide for SAP S/4HANA, on-premise edition 1610: Link
- Archive customer/vendor data with deletion flag (optional)
 - SAP recommends to archive the customer/vendor with the deletion flag
- Activate Business Functions
 - For the Transformation the Business Functions Business Foundation: Services for Supplier (CA_BSOAP) must be active.
- Check and integrate Customer/Vendor enhancements (optional)
 - BP/CVI Enhancement Cookbook and Extensible Objects (XO) consulting Notes 2309153 and 1623809
- Necessary CVI Business Partner transformation customizing settings and checks must be performed. For more details see Conversion Guide for SAP S/4HANA, on-premise edition Note 2265093.
- Remove and avoid inconsistent customizing and inconsistent customer data
 - Guided customizing settings and mapping checks available
 - Clean up or ignore mandatory and country specific field checks (Note 2336018 and 2344034)

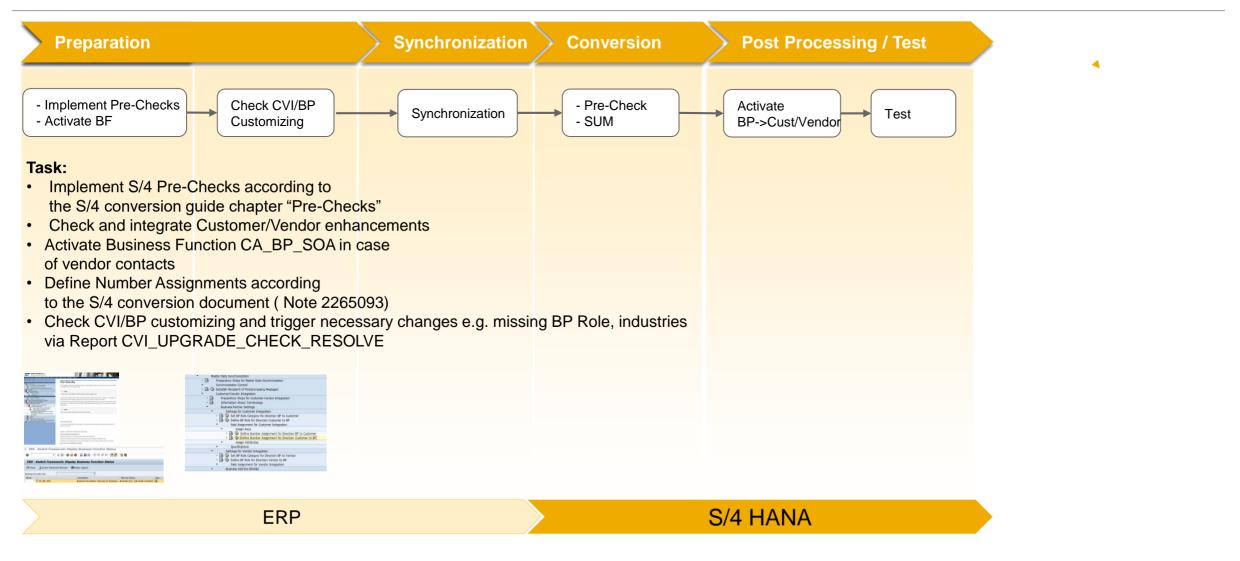
TOP Item - Business Partner Approach: Specific Information Steps and involvement



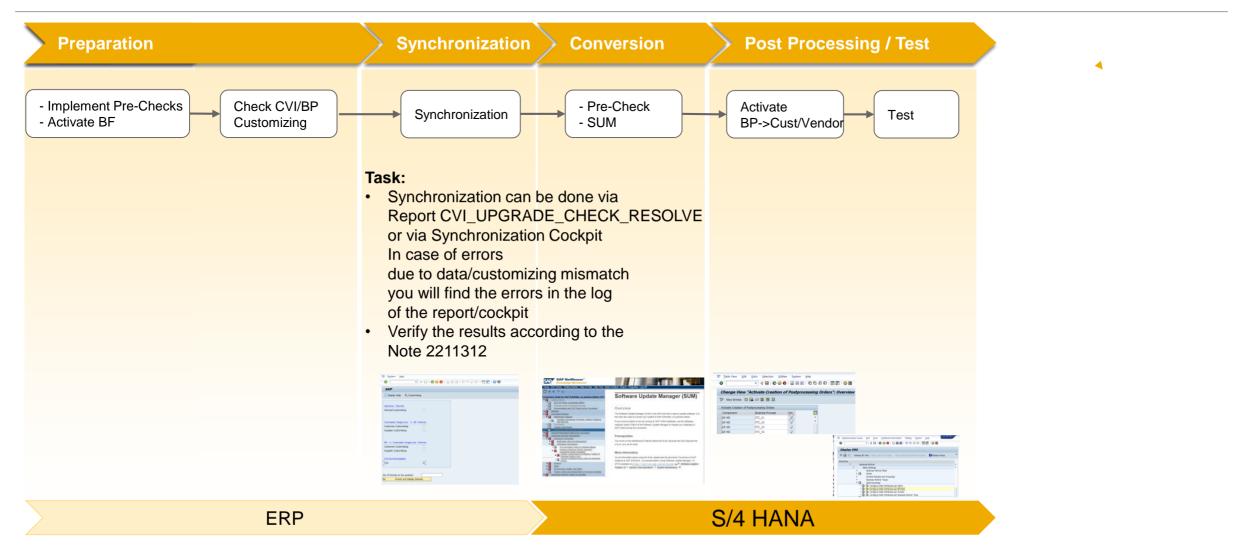
Overview

Specific

TOP Item - Business Partner Approach: Specific Information Overview Specific Specific Preparation Tasks Related



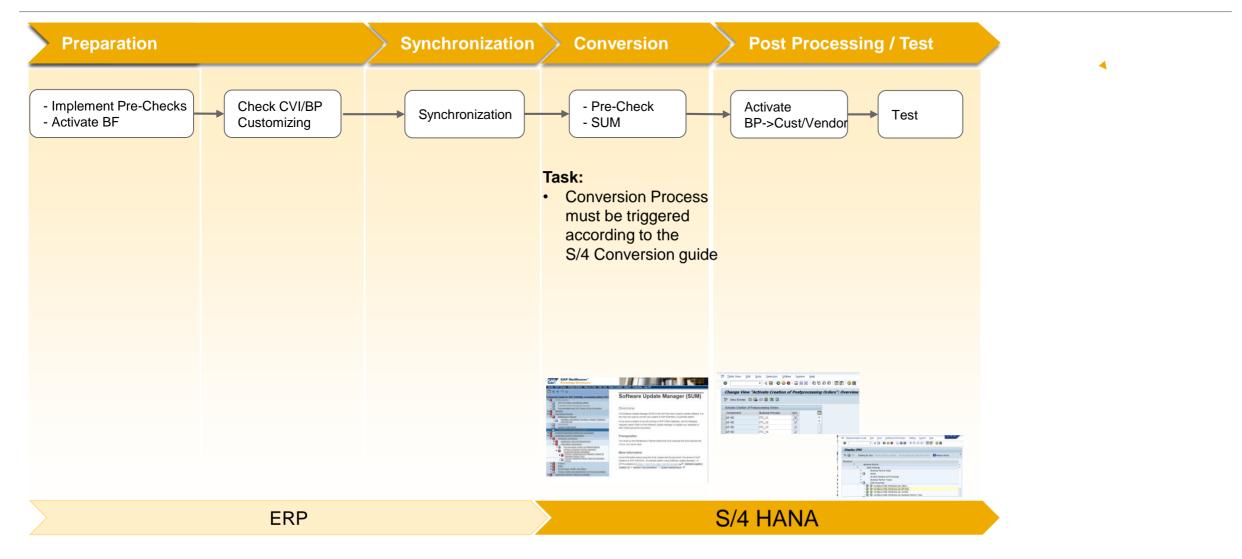
TOP Item - Business Partner Approach: Specific Information



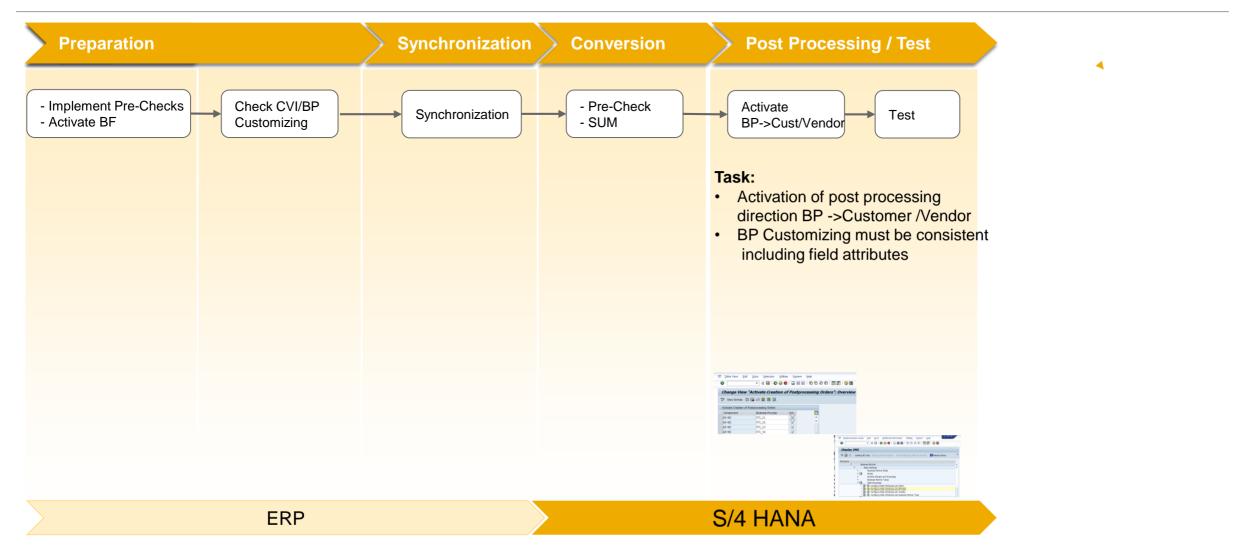
Overview

Specific

TOP Item - Business Partner Approach: Specific Information Overview Specific Specific Conversion tasks Related



TOP Item - Business Partner Approach: Specific Information Post Processing tasks



Overview

Specific

Overview **TOP Item - Business Partner Approach: Specific Information** How much time will that require?

Total transformation time

The total CVI transformation time depends on different factors, such as

- BP/CVI/Pre-Check Know-How
- Customer/Vendor/BP number ranges
- BP Customizing consistency including field attributes
- Customer/Vendor/Business Partner Data consistency
- Customer/Vendor Enhancements (Extensions)
- Data volume
- Dependent on the number of parallel processes (Synchronization Cockpit)
 - E.g. 20 parallel processes depending on the hardware
- Dependent on the selected block size and therefore memory consumption
 - Default is set to 50 in case several contacts for one BP exist •
 - Block size greater than 100 should not be maintained .

Specific

TOP Item - Business Partner Approach: Specific Information Overview Guided CVI Customizing and Synchronization

- Guided CVI Customizing (Note 2344034)
 - The simple guided wizard report allows based on existing customer/vendor data to handle the CVI Customizing more quickly with concrete proposals for necessary customizing entries
 - A detailed Report Documentation is available in the above mentioned Note

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TOP Item - Business Partner Approach: Specific Information Guided CVI Customizing and Synchronization

CVI Synchronization

 The simple guided wizard report allows based on existing customer/vendor data to handle the CVI Synchronization more quickly (PDF Documentation is available in Note 2265093)

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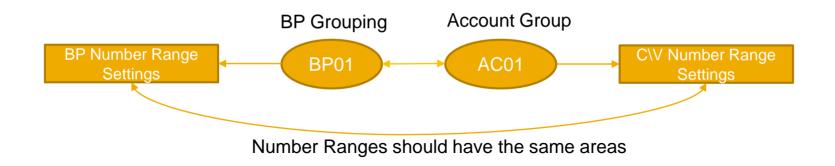
Overview

Specific

TOP Item - Business Partner Approach: Specific InformationBusiness Partner/Customer/Vendor Number Range Definition



- The business partner grouping defines the number range of the Business Partner
- The account group defines the number range of the customer/vendor master record
- Both groups determine the numbers in which a business partner and a customer or vendor are created



SAP recommends to keep the customer/vendor number the same when converting to business partners Only when there is a conflict in number ranges between customer and vendor (same number is used for different customer and vendor), one of the entities has to take a different BP number

The guided CVI conversion report determines overlaps and suggests proposals for conflicting number range settings

TOP Item - Business Partner Approach: Specific Information Business Partner/Customer/Vendor Authorization Management



- The business partner authorization objects control the authorization for maintaining Business Partner Data
 - Additional authorization fields and field groups checks can be already in place via the Business Data Toolset (BDT)
- The customer and vendor authorization objects control the authorization for maintaining customer and vendor data
- Authorization Objects are defined for different data segments like General Data, Company Data, Sales Data
 - Business Partner and Customer/Vendor authorization objects are partly redundant e.g. General Data

During the synchronization the system checks if all necessary authorizations exist

TOP Item - Business Partner Approach: Specific Information Overview Specific Specific Business Partner/Customer/Vendor Field Control Related

BP Data Field Control Definition

- Client level
- Role level determined via BP Group

Customer/Vendor Data Field Control Definition

- Account Group
- Only evaluated on save of the BP

BP Field Control is supplemented by Customer/Vendor field control based on account groups and is independent of BP Client/Role

TOP Item - Business Partner Approach: Specific Information



The checks are mainly based on the BP customizing- A few important checks are listed below

Central Data Checks

- Check on BP Roles/Grouping
 - Customizing: Cross Application Components => SAP Business Partner
 => Business Partner => Basic Settings => Define BP Roles/ Role Grouping
- Check on Number Ranges
 - Customizing: Cross Application Components => SAP Business Partner => Business Partner => Basic Settings
 - => Define Number Ranges/Groupings and Assign Number Ranges
- Check of partner id e.g. !,#,* not allowed

Address Checks

- Check on Address data e.g. title Forms of Address (Tables TSAD3)
 - Customizing: Cross Application Components => SAP Business Partner
 => Business Partner => Forms of Address => Maintain Forms of address
 - E-mail must contain @
- Bankdetails Checks
 - Check on bank data e.g. bank key must be available

Organization Checks

- Industry must exist (SAP Table TB038)
 - Customizing: Cross Application Components => SAP Business Partner => Business
 Partner => Organizations=> Maintain Industry Systems and Industries
- Legal Forms must exist (SAP Table TB019)
 - Customizing: Cross Application Components => SAP Business Partner => Business
 Partner => Organizations=> Maintain Industry Systems and Industries
- Legal Entity must exist (SAP Table TB032)
 - Customizing: Cross Application Components => SAP Business Partner => Business Partner => Organizations=> Maintain Industry Systems and Industries

Taxnumber checks

- Tax Type must exist in the Tax Number Categories (SAP Table TFKTAXNUMTYPE)
 - Customizing: Cross Application Components => SAP Business Partner => Business Partner => Basic Settings=>Tax Numbers=>Maintain Tax Number Categories

TOP Item - Business Partner Approach: Specific Information Overview Lessons Learned Overview

- General learnings
 - Until today every conversion had its own challenges concerning customer data
 - Business Partner and technical expertise required
 - Conversion Guide, Simplification List should be known
 - Business Partner customizing mandatory fields group checks can be suppressed during conversion (Note 2336018) due to missing/inconsistent customer/vendor data
 - BP Field group checks are defined in Business Partner Customizing->Basic Settings-Field Groupings
 - Additional checks e.g. country specific like tax code, postal code can be suppressed via BADI or customizing (TA OY17)
 - Check and Resolve report can restore the entries after a successful conversion
 - Retail Business Partner Data and Customer as Consumer are not part of the conversion
 - Beginning with OP1511FPS2 also consumers are handled via CVI (Direction BP->Customer)
 - One time customer and consumer are not yet handled via CVI (Direction Customer->BP)
 - Number Range assignment is very important
 - Create BP Grouping for each customer/vendor account group
 - Internal BP number range also used for BP contact IDs (Standard Grouping for Internal Number Assignment is selected)
 - Name change from ERP Vendor to S/4 Supplier

Specific

TOP Item - Business Partner Approach: Specific Information



Direction Customer/Vendor -> BP

- Inconsistencies may exist in the Customer/Vendor/Address e.g. e-mail addresses without @-sign
- Inconsistencies may exist in the Customer/Vendor/BP customizing
- Inconsistencies in the CVI link tables can exist Implement reports via OSS Note 974504
- See also on the next slide possible customizing /master data issues
- Customer/Vendor change transaction or correction reports which replace the erroneous values with correct values might be necessary
- Special data situation can occur e.g. customers/vendors exist with the same numbers representing the same legal entity
 - Require a correction report e.g. OSS Note 954816
- ERP/Customer Vendor is always of category type organization
 - Customer-specific mapping via Business Add-Ins possible

Direction BP ->Customer/Vendor

- Activation of the Postprocess Orders for CVI_03 and CVI_04 necessary
- No specific user interface for customer/vendor like known from SAP Business Suite available - redirect to BP Transaction
- Limited number of customer & supplier fields in transaction BP available see Note 2214213
- BP Customizing must be consistent including field attributes for each BP Role category

TOP Item - Business Partner Approach: Specific Information 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)
- Missing account holders
- Non existing TAX and VAT values, bank numbers
- Missing links to ADRC table
- Formatting issues and missing references and links can not be solved by suppressing errors The wrong formatted/missing references data must be cleaned up
- Field checks errors can be suppressed via Note 2336018 and Note 2344034

TOP Item - Business Partner Approach: Specific Information Lessons Learned – Suppress Country Field Checks errors



Root cause:

 Existing customer country fields is defined with a length different than specified in the country settings

How to resolve:

- Implement BADI mentioned in Note 2344034
- No error log is provided
- After successful conversion run the CVI_UPGRADE_CHECK_RESOLVE report is able to restore the checks rules)
- Directly via customizing OY17 (No restore possibility)

🖙 Change View "Co	untry Field Checks": Det	ails		
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Change View "Cou	ntry Field Checks": Deta	ils		
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Key for the bank directory				
Bank Key 1	Bank number			
Formal checks				
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Further checks				🖉 🔽 🗸 🖌 🗸 🗸 🗸 🗸
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000000048		0000100095			000000053		MANJU1	
000000049		0000100105			000000080		MERA-LIEF	
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000000054		0000100108			0000000179		MODEL_VEND	
000000055		0000100115			000000757		RAMYA	
000000056		0000100155			0000001032		RESORT	
000000059		0000100185			0000001042		RGVTEST7	
000000060		0000100187			0000100025		RGVTEST8	
000000071		0000100201			800000529		RGVTEST9	
000000079		0000100206			800000530		SAT-VENDOR	
000000082		0000100228			800000817		SBEH_BP1	
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TOP Item - Business Partner Approach: Specific Information Lessons Learned – Resolve configuration Issues



Tax number category doesn't exist

Root cause:

 Tax number category hasn't been defined in table TFKTAXNUMTYPEC

How to resolve:

- Add tax number category to table TFKTAXNUMTYPE, TFKTAXNUMTYPEC
- Adjust Customizing: Cross Application Components => SAP Business Partner => Business Partner => Basic Settings=>Tax Numbers=>Maintain Tax Number Categories

🕑 Change View "Maintain Tax Number Categories": Overview

New En	tries 🐚 🔒 🔊 🛃 🖪		
laintain Tax	k Number Categories		
Category	Name	Duplicate Check	
AR1A	Argentina: CUIT Number	Off	
AR1B	Argentina: CUIL Number	Off	
AR2	Argentina: Income Tax Number	Off	
AR3	NIP number or CM number	Off	
ATO	Austria: VAT Registration Number	Off	,
AUO	Australia: ABN	Off	
BEO	Belgium: VAT Registration Number	Off	
BE1	Belgium: Enterprise Number	Off	
BE2	Belgium: VAT Reg. No. w/o country code	Off	
BR1	Brazil: CNPJ Number	Off	
BR3	Brazil: State Tax Number	Off	
BR4	Brazil: Municipal Tax Number	Off	
CA1	Canada: Goods and Service Tax (GST) No.	Off	
CH1	Switzerland: UID Number	Off	
CL1	Chile: RUT Number	Off	
CN1		Off	
CZ1	Czech Republic: DIC Number	Off	
CZ2	Czech Republic: ICO Number	Off	
DEO	Germany: VAT Registration Number	1 On	
DE1	Germany: Income Tax Number (§48)	Off	
DE2	Germany: VAT Number (Credit Proc. §14)	Off	
DK0	Denmark: VAT Registration Number	Off	
DK2	Denmark: Tax Number	Off	
ESO	Spain: VAT Registration Number	Off	,
ES1	Spain: NIF Number	Off	,
FIO	Finland: VAT Registration Number	Off	

TOP Item - Business Partner Approach: Specific Information Lessons Learned – Resolve configuration Issues

Specify Industry

Root cause:

Industry hasn't been defined in the industry system

How to resolve:

 Adjust Customizing: Cross Application Components

 => SAP Business Partner => Business Partner => Organizations => Maintain Industry Systems and Industries

Now this industry needs to be mapped to the new industry in the Customer/Vendor integration customizing by the definition of the mapping for outgoing and incoming industries

- Adjust Customizing: 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
 - Settings for Vendor integration =>Field assignment for Vendor Integration => Assign Attributes => Assign industries

izations => Maintain

Table View Edit Goto Selection Utilities System Help

🧐 New Entries 🣭 🔜 🔊 🗐 🖷

Industry Number System

Dialog Structure

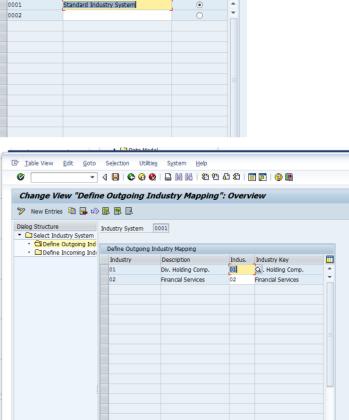
Change View "Industry Number Systems": Overview

Industry Number Systems

Industry System

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Descript.



Standard System

Overview

Specific

TOP Item - Business Partner Approach: Specific Information Lessons Learned – Resolve configuration Issues



Address form is not configured for organizations

Root cause:

Address form hasn't been configured for usage by organizations

How to resolve:

- Adjust Customizing: Cross Application Components => SAP Business Partner => Business Partner =>Basic Settings=> Forms of Address => Maintain Forms of address
- Set address form xxx valid for organizations and groups.

Change View "Titles (Business Address Services)": Overview

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Change View "Titles (Business Address Services)": Overview

🞾 New Entries 🗈 🖶 🕼

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0001	Ms.	 Image: A start of the start of			2 Female	
0002	Mr.	\checkmark			1 Male	
0003	Company		-		Gender not known	
0004	Mr. and Mrs.			v	Gender not known	
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TOP Item - Business Partner Approach: Specific Information Lessons Learned – Resolve Master Data quality issues



Existing Account Number/Bank control key not valid

Root cause:

- Bank account number (KNBK-BANKN) is defined with a length different than specified in the country settings
- Bank control key (KNBK-BKONT) is in a wrong format

How to resolve:

- Change the bank account/bank control key to a valid value.
- This can be done via ERP transaction XK02/XD02

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Instru	ction key			Allowed payer			

TOP Item - Business Partner Approach: Specific Information Lessons Learned – Resolve Master Data quality issues



Bank key/account holder doesn't exist for country

Root cause:

- Bank key (KNBK-BANKL) specified for a customer/vendor bank account doesn't exist.
- Account holder (KNBK-KOINH) is missing in the bank details record

How to resolve:

- Change the bank key number/account holder to any valid value
- This can be done via ERP transaction XK02/XD02

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TOP Item - Business Partner Approach: Related Information CVI Related Topics Customer and Vendor

Overview Specific Related

- Customer/Vendor functionality are taken over to the Business Partner(BP) transaction
- Please check Note 2214213 chapter Business Partner and BP attachments
- SD/Customer
 - SD Partner Functions can be still used and is part of the BP transaction folder Sales and Distribution
 - Customer account group can be changed in the Business Partner(BP) transaction
- S/4 Prospect to customer
 - Create BP with Role Prospect(BUP002) No KNA1 created
 - Change Role from Prospect to Customer(e.g.FLCU01)
- Hierarchies
 - The already in ERP available hierarchies can be used
 - \circ Customer Hierarchy
 - Vendor Hierarchy
- Mass maintenance
 - Mass Transactions(XD99 and MASS)
 - Mass maintenance Fiori App

TOP Item - Business Partner Approach: Specific Information Overview CVI Related Topics HCM, CRM and Retail Specific Specific Related Related Related

- Employee Replication
 - Employee Replication is mandatory for Cloud Systems
 - For every Cloud System and User a Business Partner must exist (Identity Management)
 - Conversion of Employees to Business Partner is not part of the CVI and the Synchronization
 - Employee Vendor is converted (BADI Implementation is necessary to change category to person)
 - A separate report after the CVI synchronization and upgrade must be triggered (Note 2340095)

CRM

- Business Partner data exchange between S/4HANA and CRM (Note 2283810)
- Separate CRM Pre-Check available (Note 2303003)

Retail

- SAP S/4HANA conversion for site master (Note 2310884)
- Separate Site Migration Pre-Check available see also above Note site master

TOP Item - Business Partner Approach: Specific Information Overview Business Partner Interfaces Specific

Public and supported CVI/BP Interfaces

- Migration Note 2287723
 - Legacy System Migration Workbench (LSMW)
 - SAP Rapid Data Migration
- Creation of Business Partner with Customer and Supplier Roles Note 2417298
 - -IDOCS
 - \circ CREMAS
 - \circ DEBMAS
 - Webservice
 - BusinessPartnerSUITEBulkReplicateRequest
 - o BusinessPartnerRelationshipSUITEBulkReplicateRequest
 - API see above Note
- Data Model mapping and related services see attachments of <u>Note 2221398</u>

TOP Item - Business Partner Approach: Related Information Overview Additional Information Specific

SAP Help Documentation		Introduce Business Partner Approach (Customer/Vendor Integration)	For more details see Conversion Guide for SAP S/4HANA, on-premise edition 1610: Note <u>2265093</u>		
		Synchronization Cockpit	Link		
Related Pre-Check Information		<u>6</u> - Business Partner Conversion Report <u>1</u> -Technical documentation: ASU variant rest	torer functionality		
Additional Information	SAP Note 19233 SAP Note 23993 SAP Note 23638 SAP Note 23638 SAP Note 233601 SAP Note 234508 SAP Note 240044	 93 - Business Partner Approach 93 - Contact Person Synchronization 68 - Cockpit Excel Upload 92 - Business Partner as one legal entity .8 - BP S4HANA : Suppress Mandatory BP field .87 - Missing values in required entry fields causes .5 - Customer Company Data - Deletion/archiv .41 - Supplier Company Data - Deletion/archiv 	use posting termination iving/block not visible in BP transaction		