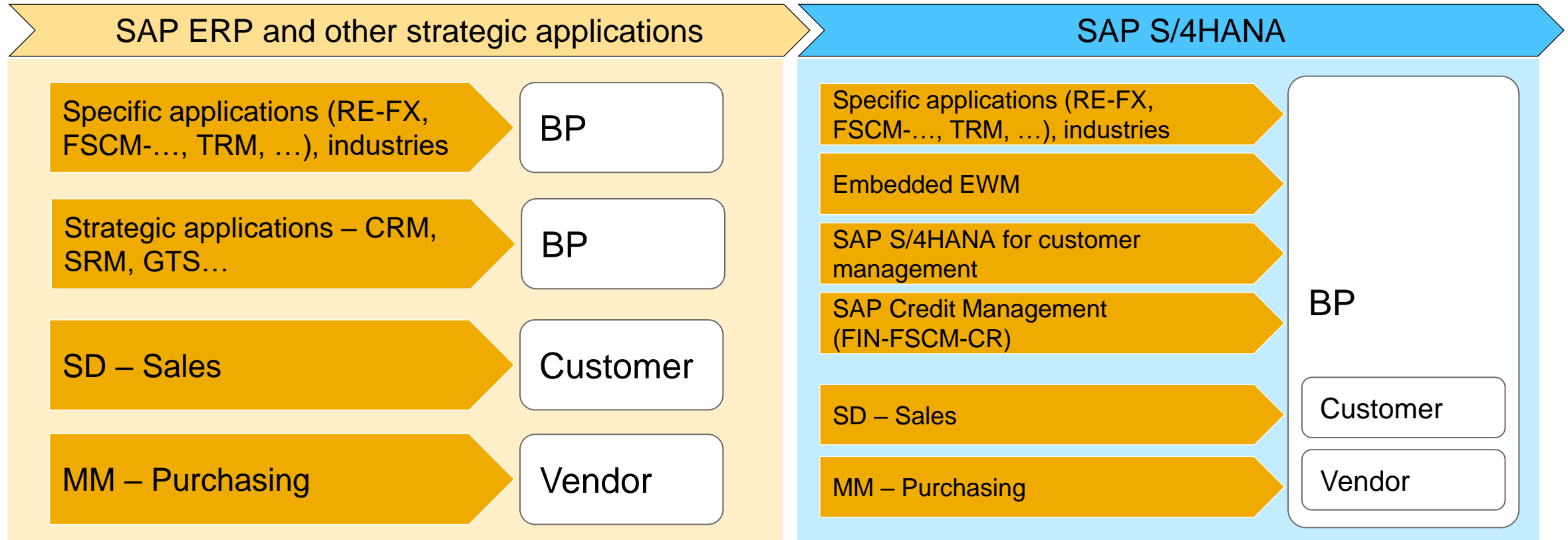




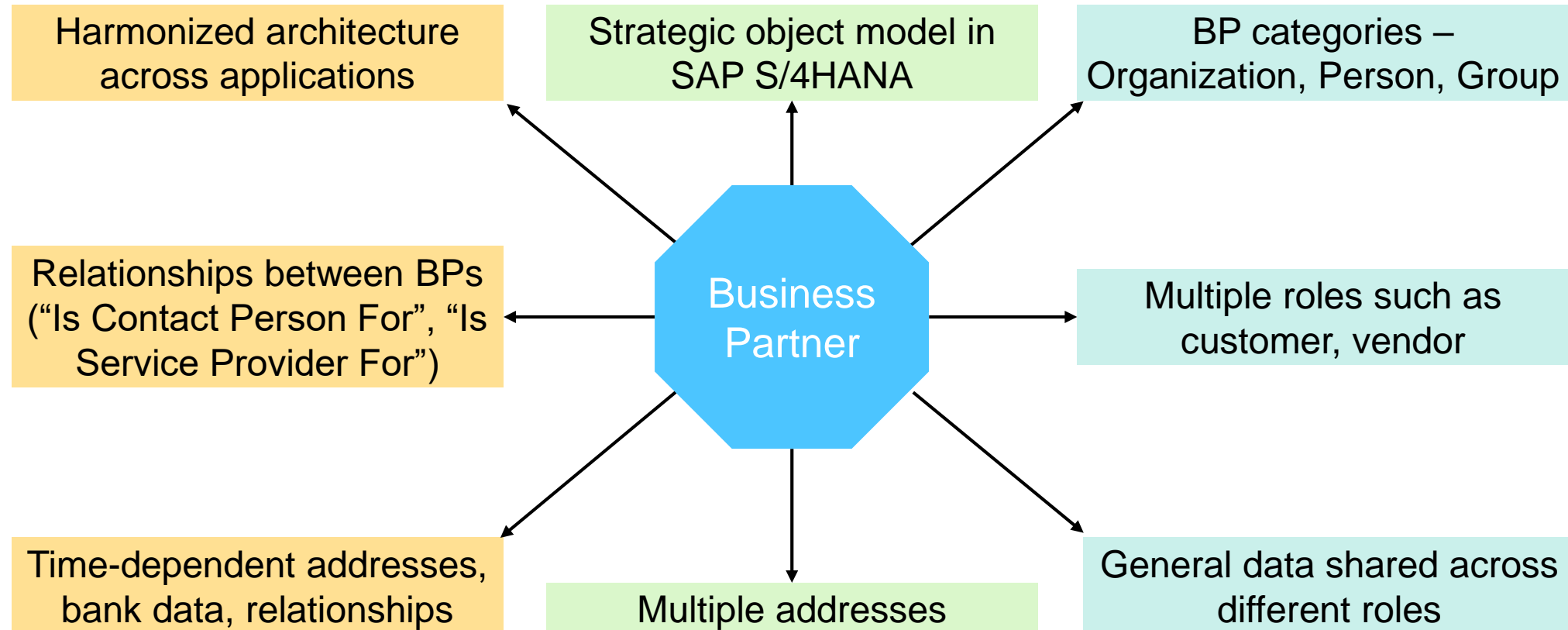
Week 3: Business Partner

## Unit 1: Business Partner Data Model

# Business Partner Data Model Evolution



# Business Partner Data Model Structure



# Business Partner Data Model Categories



## Person

- Private Person
- Personal Data
  - First Name/Last Name, Academic Title, DOB, etc.



## Organization

- Company, Subsidiary
- Company Data
  - Name, Legal Form, Industry etc.

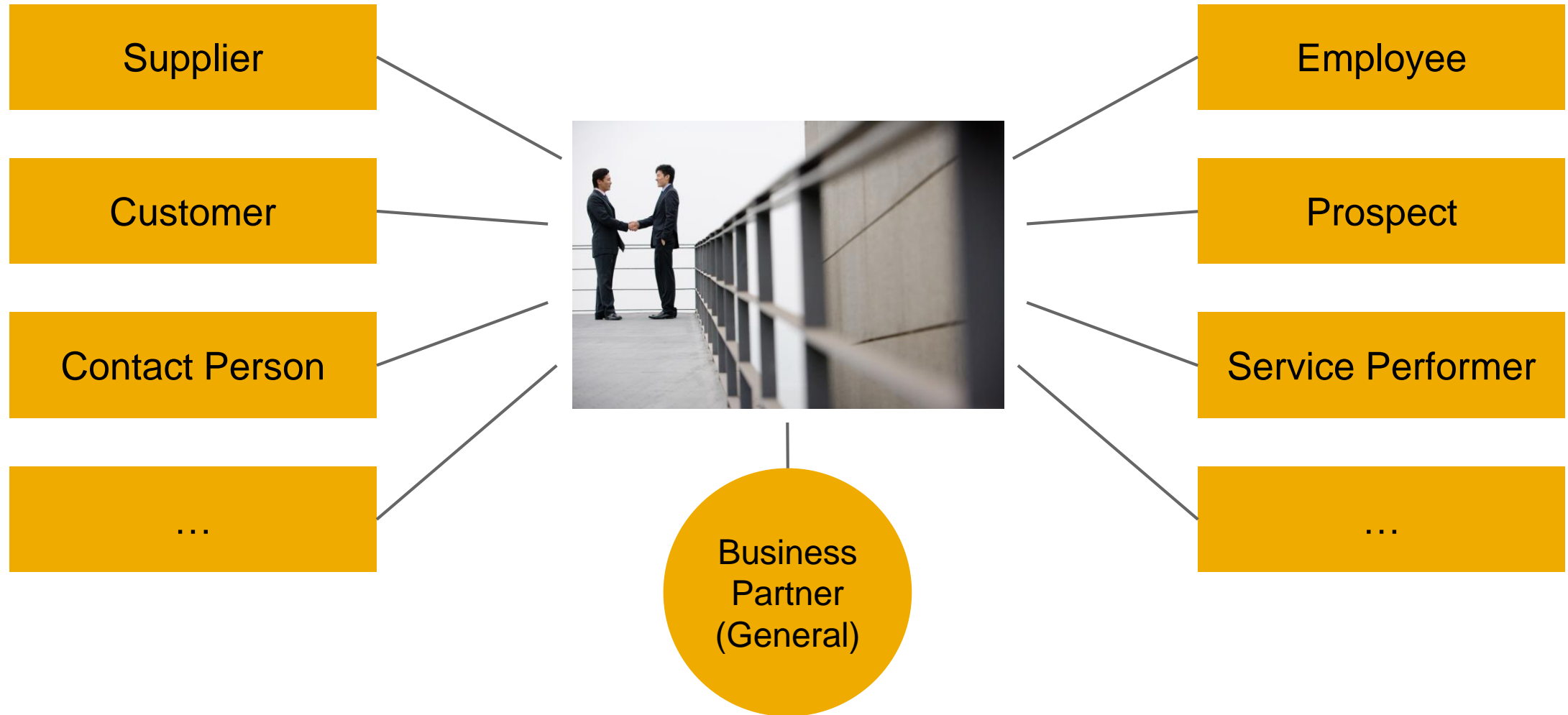


## Group

- Household, Joint Residence
- Group Data
  - Name, Group Type etc.

# Business Partner Data Model

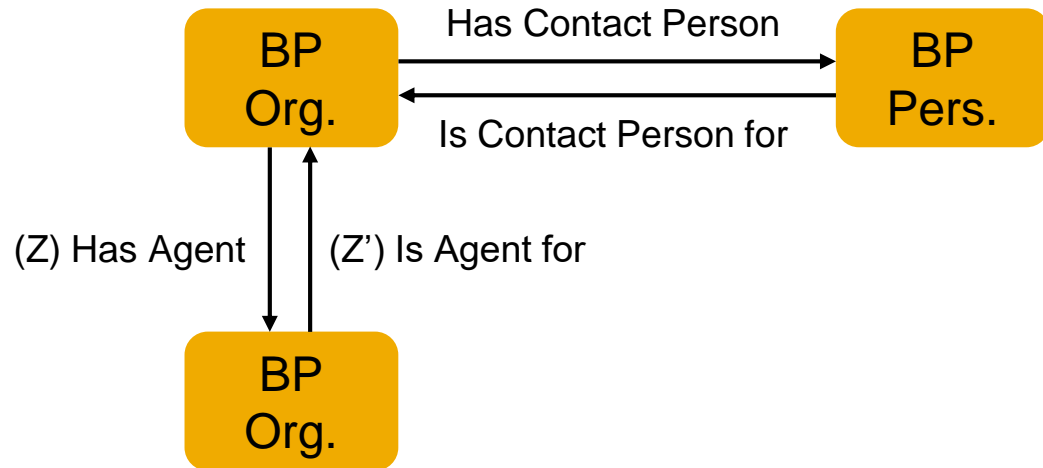
## Roles



# Business Partner Data Model Relationships

Business partners can be linked via relationships

- Predefined relationship categories
- Possible to create own relationship categories
- Time-dependent
- Display of relationships as list/hierarchy/network



Organization: 17100001, maintain relationships

Business Partner: 17100001 Domestic US Customer 1 / Atlanta GA 30315-1402

Relationship Cat.: FBUR001 Has Contact Person (2) Format: **D Hierarchy**

Relationship to BP: From to Create

Business Partner	Details
001710001	Domestic US Customer 1 / 200 Augusta Ave SE / Atlanta GA 30315-1402
0017910005	Susan Miller
0017910006	James Smith

Organization: 17100001, maintain relationships

Business Partner: 17100001 Domestic US Customer 1 / Atlanta GA 30315-1402

Relationship Cat.: FBUR001 Has Contact Person (2) Format: **C Network**

Relationship to BP: From to Create

```
graph TD; A["001710001 Domestic US C  
200 Augusta Ave SE Atlanta  
GA 30315-1402"] --> B["0017910005 Susan Miller"]; A --> C["0017910006 James Smith"];
```

# Categories, roles, and relationships



Company

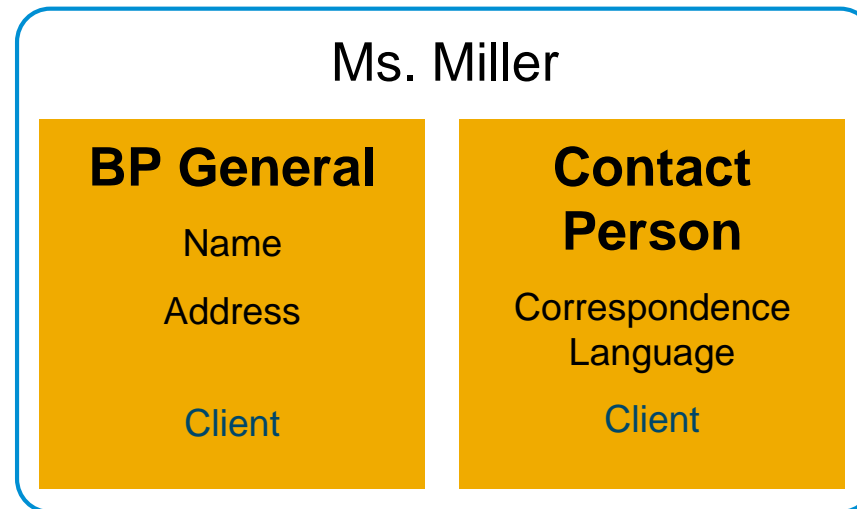
Business Partner Category  
Organization

Relationship  
Ms. Miller  
**Is Contact Person for**  
Company



Ms. Miller

Business Partner Category  
Person



# Business Partner Data Model

## Categories, roles, and relationships in the system

The screenshot displays two SAP Business Partner Data Model screens. The top screen, 'Create Organization', shows a dropdown menu for 'Business Partner' roles, with 'FLCU00 Customer (Fin.Accounting)' highlighted. Red callouts point to the 'Category' field, the 'Create in BP role' button, and the 'Roles' dropdown. The bottom screen, 'Organization: 10100001, maintain relationships', shows a 'Has Contact Person' relationship. A red box highlights the 'Relationship Cat.' field, which is set to 'Has Contact Person'. Below this, a table lists contact persons for the business partner.

Business Partner	Ad...	Description	Valid From	Valid To	S...	Fct	Function Description	Dept	Department Description
10910005		Alina Müller / D-74214 Schöntal	01.01.1900	31.12.9999	X	0003	Sales Manager	0003	Sales
10910006		Alexander Linke / D-74214 Schöntal	01.01.1900	31.12.9999		0002	Purchasing Manager	0002	Purchasing



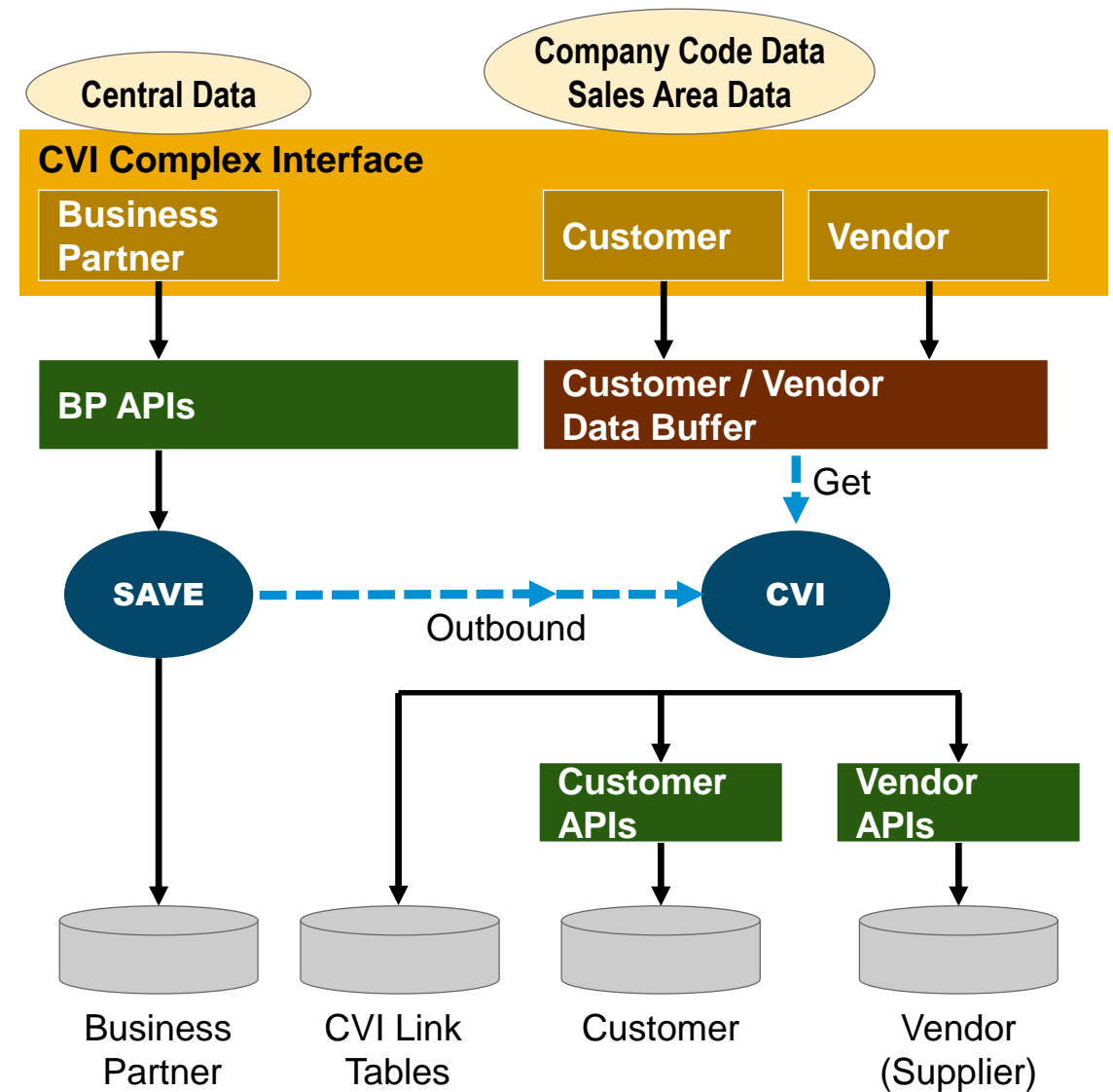
## Customer/vendor integration (CVI)

**Business partner** creation is the first step in the creation of **customers and suppliers**.

The complex CVI interface (CVI) takes care of the general **business partner** data as well as the **customer and supplier**-specific data.

The business partner and customer/vendor data are partially redundant (BUT000 against KNA1 & LFA1). *For instance, "Name and Address-Specific Attributes" are available in both tables.*

While saving, both **business partner and customer/supplier data** is updated.

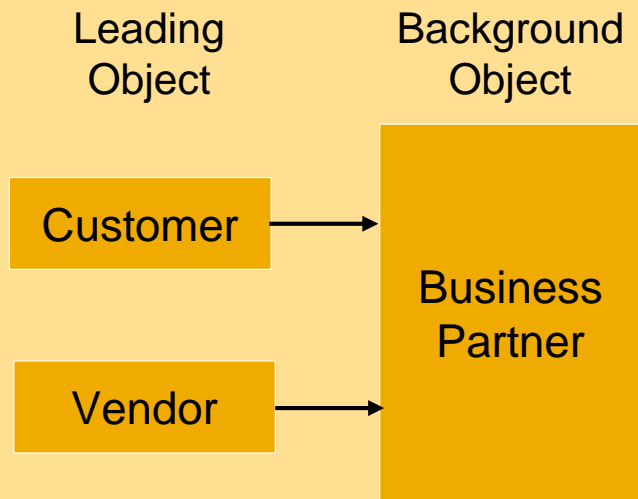


# Business Partner Data Model

## CVI – Synchronization

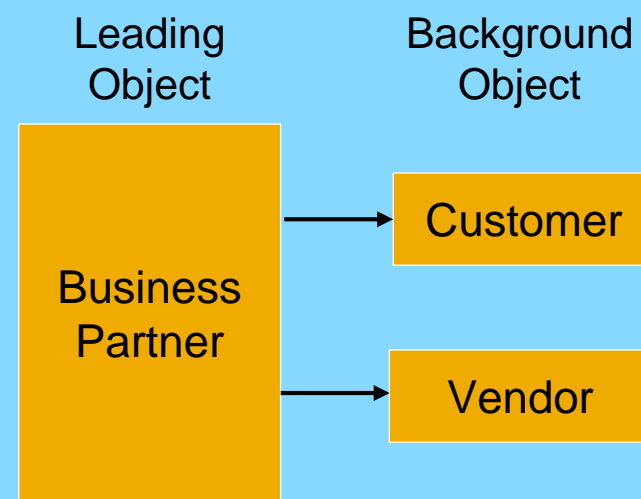
### SAP ERP – CVI Synchronization

Direction:  
Customer -> BP  
Vendor -> BP



### SAP S/4HANA – CVI Synchronization

Direction:  
BP -> Customer  
BP -> Vendor



# Thank you.

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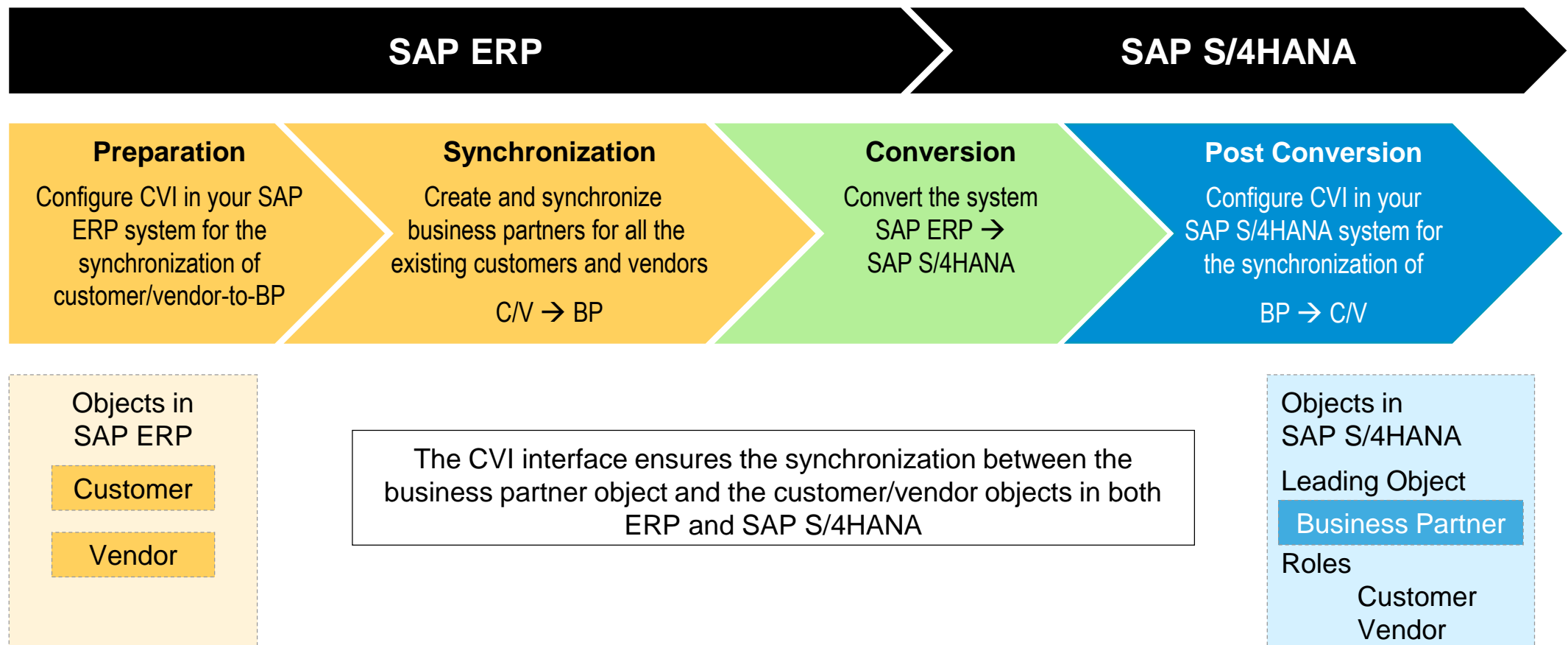
Week 3: Business Partner

## Unit 2: Customer/Vendor Integration Synchronization Steps in the System

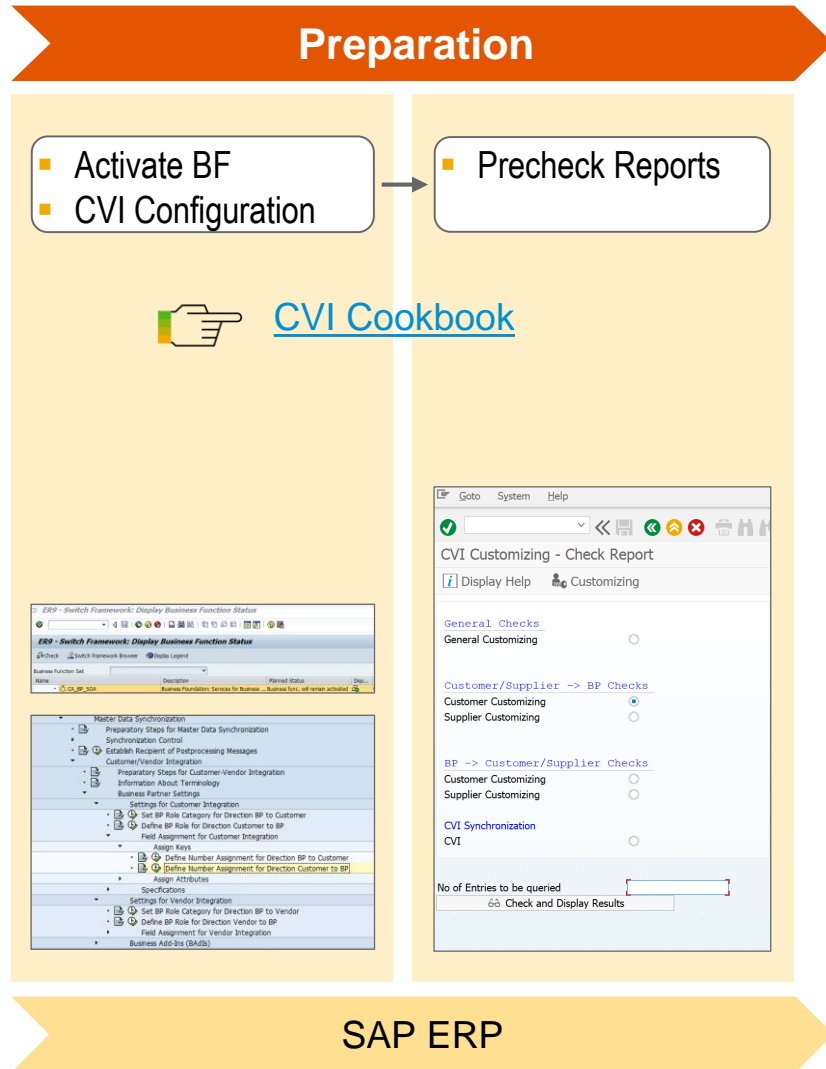
# Customer/Vendor Integration Synchronization Steps in the System Overview

CVI implementation is a prerequisite for converting an SAP ERP system to an SAP S/4HANA system.

All the customers, vendors, and contact persons must be converted to business partners in ERP before starting system conversion.



# Customer/Vendor Integration Synchronization Steps in the System Preparation



Archive customer/vendor data (optional)



Activate business functions



Integrate custom enhancements (if any)



Implement check reports  
CVI\_MIGRATION\_PRECHK  
CVI\_UPGRADE\_CHECK\_RESOLVE



Configure CVI in the direction C/V → BP



Implement customer-specific mapping (if necessary)



Assign number ranges

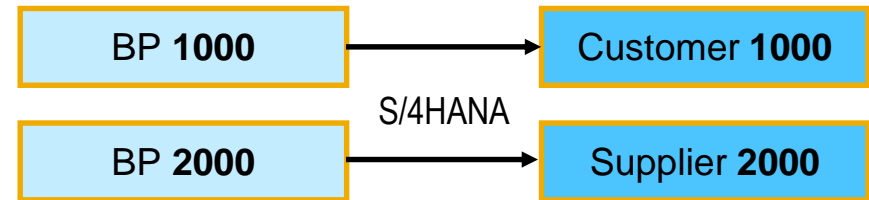
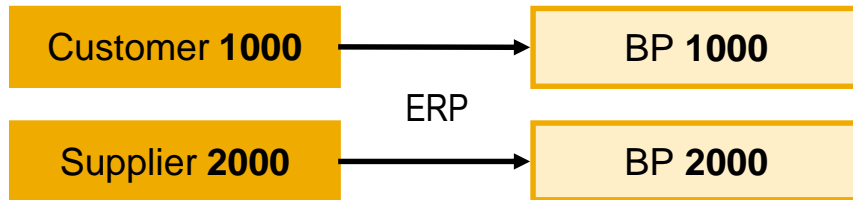


Run pre-conversion checks

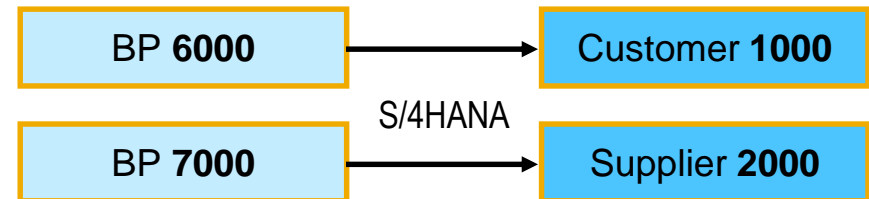
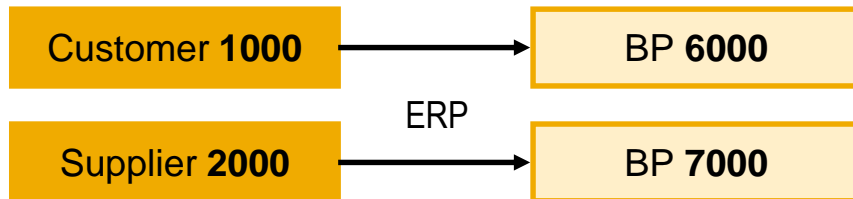
# Customer/Vendor Integration Synchronization Steps in the System

## Preparation – Number assignment

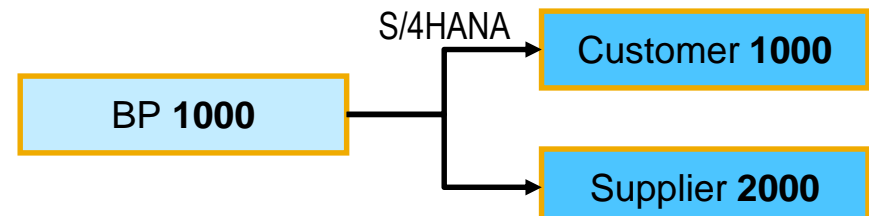
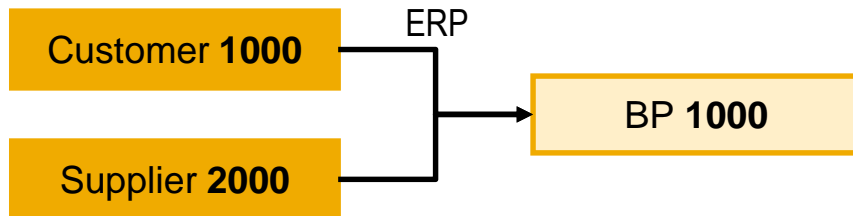
Option 1 – Same BP number for customer/supplier



Option 2 – New BP number (different from customer/supplier)



Option 3 – Merge customer and supplier (SAP Note 2363892)



- Maintain business partner number range in such a way that most numbers from customer or vendor stay unchanged
- CVI conversion report MDS\_LOAD\_COCKPIT will assign an internal BP number to contact person from internal standard grouping



# Customer/Vendor Integration Synchronization Steps in the System

## Preparation – Check reports



Master Data Consistency Check  
CVI\_MIGRATION\_PRECHK



SAP Note 2743494 – Prevalidation:  
Master Data Consistency Check

The screenshot shows the 'Prevalidation: Master Data Consistency Check' dialog box. It has a 'General Selection' section with radio buttons for 'Customer' (selected) and 'Vendor'. Below are input fields for 'Customer Number' and 'Account Group', each with a search icon and a 'to' field. The 'Business Checks' section contains a grid of checkboxes, all of which are checked: 'Select All', 'Tax Code', 'Tax Jurisdiction', 'Address', 'Postal Code', 'Number Range', 'Email', 'Industry', 'Transportation Zone', and 'Bank Data'.



Run CVI Check Report  
CVI\_UPGRADE\_CHECK\_RESOLVE



Checks CVI Customizing and displays any  
incorrect or missing configuration



Provides solution proposals for Customizing

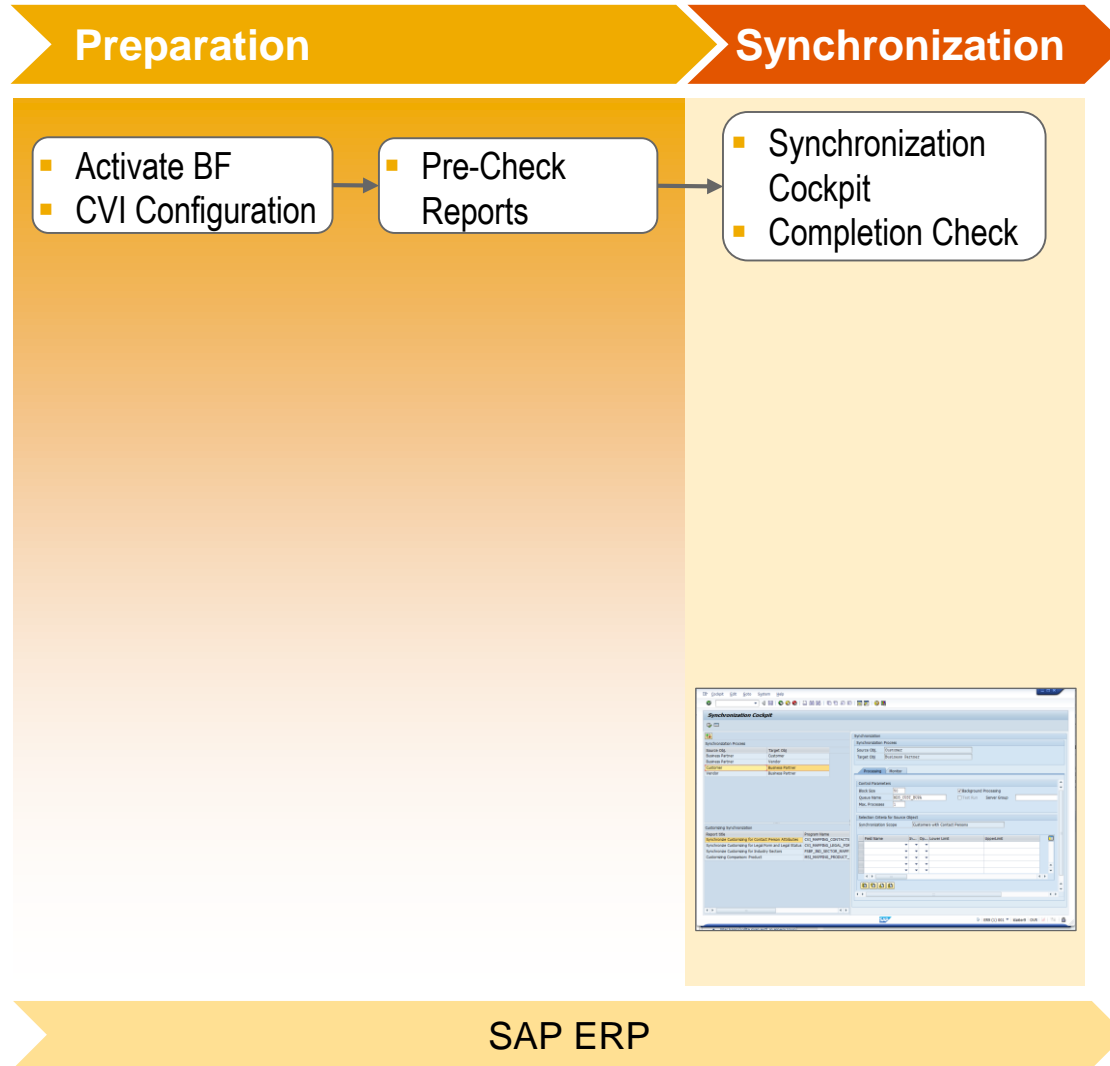


SAP Note 2344034 – SAP S/4HANA Automation  
for Master Data Migration

The screenshot shows the 'CVI Customizing - Check Report' dialog box. It has a 'Display Help' button and a 'Customizing' icon. The 'General Checks' section has a radio button for 'General Customizing' (unselected), with a red arrow pointing to it. The 'Customer/Supplier -> BP Checks' section has radio buttons for 'Customer Customizing' (selected) and 'Supplier Customizing' (unselected), with a red arrow pointing to 'Customer Customizing'. The 'BP -> Customer/Supplier Checks' section has radio buttons for 'Customer Customizing' and 'Supplier Customizing' (both unselected). The 'CVI Synchronization' section has a radio button for 'CVI' (unselected). At the bottom, there is a 'No of Entries to be queried' input field and a 'Check and Display Results' button.

# Customer/Vendor Integration Synchronization Steps in the System

## Synchronization



- Run MDS\_LOAD\_COCKPIT
- Run CVI\_UPGRADE\_CHECK\_RESOLVE

Goto System Help

CVI Customizing - Check Report

Display Help Customizing

General Checks

General Customizing

Customer/Supplier -> BP Checks

Customer Customizing

Supplier Customizing

BP -> Customer/Supplier Checks

Customer Customizing

Supplier Customizing

CVI Synchronization

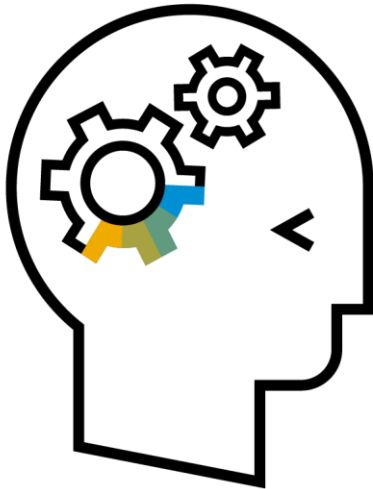
CVI

No of Entries to be queried

Check and Display Results

# Customer/Vendor Integration Synchronization Steps in the System

## Synchronization – Demo



Synchronization Cockpit

Synchronization Process

Source Obj.	Target Obj
Business Partner	Customer
Business Partner	Vendor
Customer	Business Partner
Vendor	Business Partner

Synchronization

Synchronization Process

Source Obj. Customer  
Target Obj. Business Partner

Processing Monitor

Control Parameters

Block Size 50  Background Processing  
Queue Name MDS\_CUST\_BUPA  Test Run Server Group  
Max. Processes 1

Selection Criteria for Source Object

Synchronization Scope Customers w/o Cont. Persons

Field Name	Incl...	Option	Lower Limit	UpperLimit
KUNNR Customer	I.	EQ.		
KTORD Account gro.	I.	EQ.		

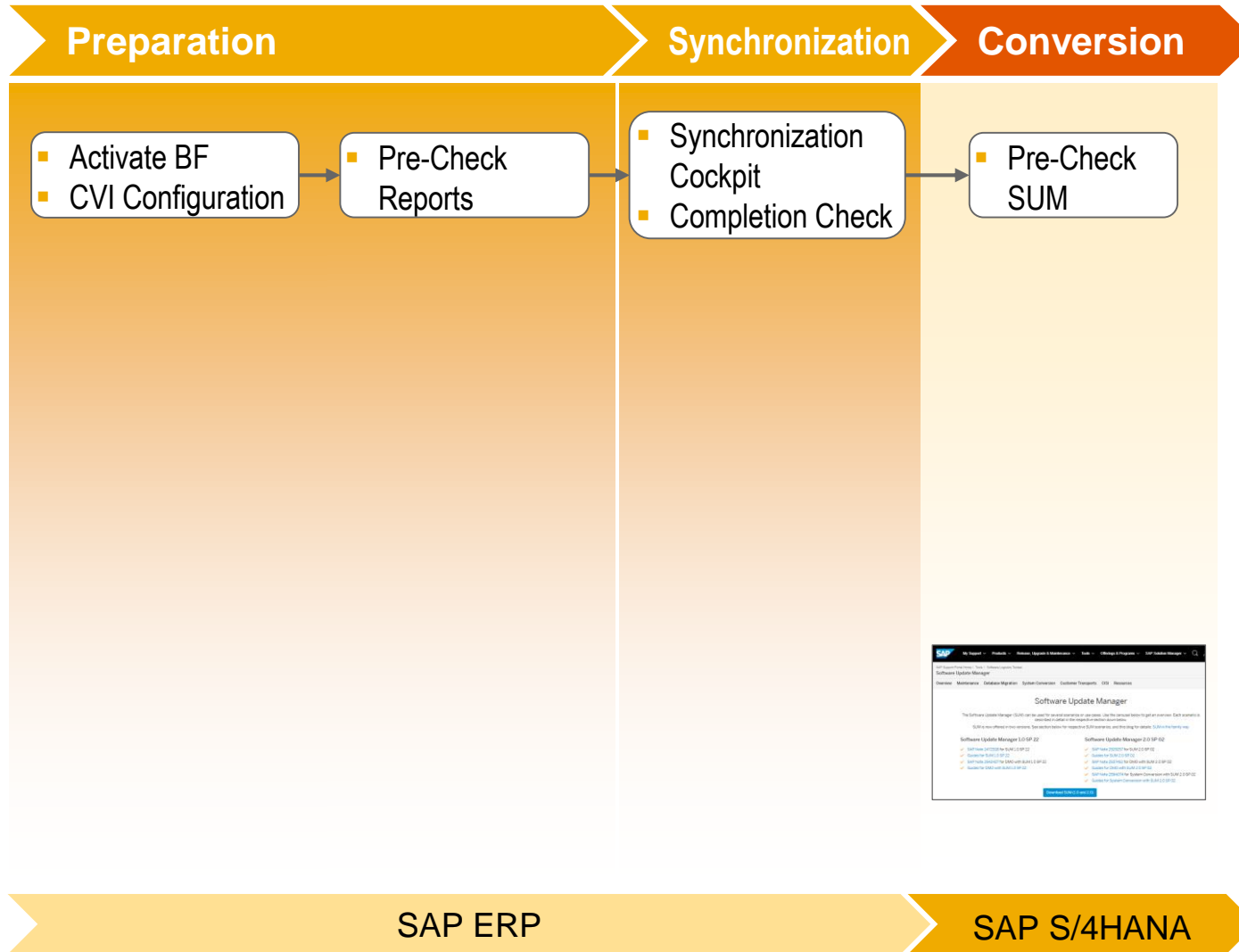
Postprocessing Desktop - PPO Orders for Business Process ID

Message Filter

Main Object / Key	Status	Process	Process Description	Main Message	Business P	Comment	Proc. by	Business Posting Date
Vendor								
100000	CC	CVI_02	Vendor -> Business Partner	Form of address 0002 not designated for organizations	100000		SAPSUP...	
00000				Partner data processed with key PartnerGUID 0AAC...				
00000				Partner data processed with key PartnerID 0000100...				
00000				Form of address 0002 not designated for organizations				
100030	XX	CVI_02	Vendor -> Business Partner	Form of address 0002 not designated for organizations	100030			
100035	CA	CVI_02	Vendor -> Business Partner	Specify an industry	100035		SAPSUP...	
00000				Partner data processed with key PartnerGUID 0AAC...				
00000				Partner data processed with key PartnerID 0000100...				
00000				Specify an industry				
100040	CC	CVI_02	Vendor -> Business Partner	Specify an industry	100040		SAPSUP...	
00000				Partner data processed with key PartnerGUID 0AAC...				
00000				Partner data processed with key PartnerID 0000100...				
00000				Specify an industry				
00000				***** Completed on 18.11.2015 at 1...				

# Customer/Vendor Integration Synchronization Steps in the System

## System conversion



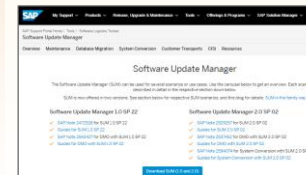
Convert system from ERP to SAP S/4HANA



No CVI-related activities



SUM will fail if BPs are not created for all the customers, vendors, and contact persons



# Customer/Vendor Integration Synchronization Steps in the System

## Post system conversion



Activate synchronization direction BP → C/V



Deactivate synchronization direction C/V → BP



Activate creation of PPO



Adjust number range definition (Ext/Int) for BP, customer, and vendor



Test



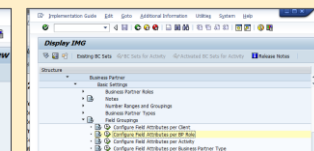
Additional steps if HCM, CRM, etc. integration is involved

## Post Conversion

Activate  
BP → Cust/Vendor

Test

Component	Business Process	Act.
SAP-HO	OTY_01	<input type="checkbox"/>
SAP-HO	OTY_02	<input checked="" type="checkbox"/>
SAP-HO	OTY_03	<input checked="" type="checkbox"/>
SAP-HO	OTY_04	<input checked="" type="checkbox"/>



## SAP S/4HANA

# Customer/Vendor Integration Synchronization Steps in the System

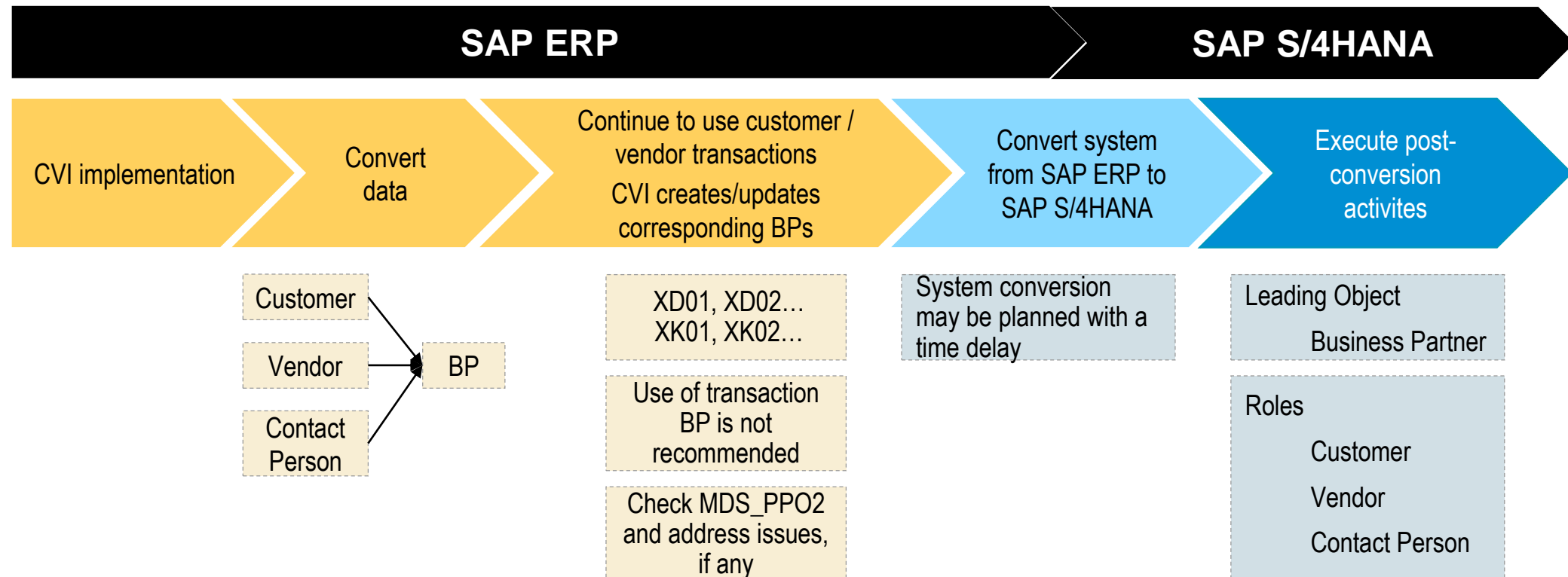
## CVI conversion approach and recommendation

### Goal

- Not part of the SAP S/4HANA conversion downtime
- Not in the critical path of SAP S/4HANA conversion
- No last minute surprises

### Recommendation

- Run first cycle of CVI in sandbox with a copy of production
- Analyze data errors and identify correction approaches
- Correct all the data errors in production
- Run second cycle of CVI in sandbox with a new copy of production
- Execute conversion DEV → QAS → PROD



# Thank you.

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**open@sap.com**

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Week 3: Business Partner

## **Unit 3: Accelerators for Customer/Vendor Integration Synchronization**

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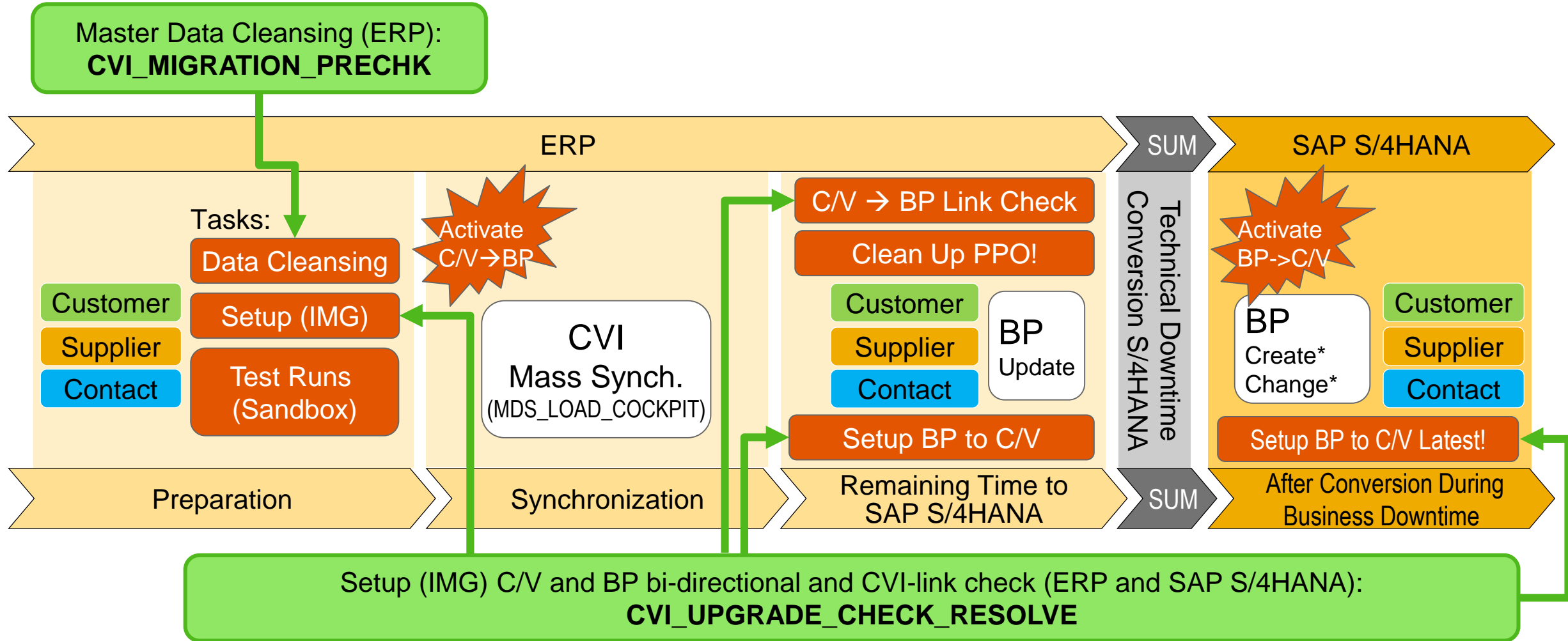
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# Accelerators for Customer/Vendor Integration Synchronization

## CVI phases and checks and help reports



\* After GO-Live

# Accelerators for Customer/Vendor Integration Synchronization

## Report CVI\_UPGRADE\_CHECK\_RESOLVE – Overview

### Report CVI\_UPGRADE\_CHECK\_RESOLVE

- Works in ERP and SAP S/4HANA
- Checks necessary business partner Customizing
- Checks necessary CVI Customizing bi-directional
- Checks for local client where user is logged in
- Supports with solution proposals for missing or wrong Customizing entries
- Checks for missing customer/supplier/contact persons links to business partners

The screenshot shows the SAP 'CVI Customizing - Check Report' interface. At the top, there is a navigation bar with 'Goto', 'System', and 'Help' menus. Below this is a toolbar with various icons including a green checkmark, a dropdown menu, and navigation arrows. The main title is 'CVI Customizing - Check Report'. Below the title, there are two buttons: 'Display Help' and 'Customizing'. The main content area is divided into several sections, each with a blue header and a list of items with radio buttons:

- General Checks**
  - General Customizing
- Customer/Supplier -> BP Checks**
  - Customer Customizing
  - Supplier Customizing
- BP -> Customer/Supplier Checks**
  - Customer Customizing
  - Supplier Customizing
- CVI Synchronization**
  - CVI

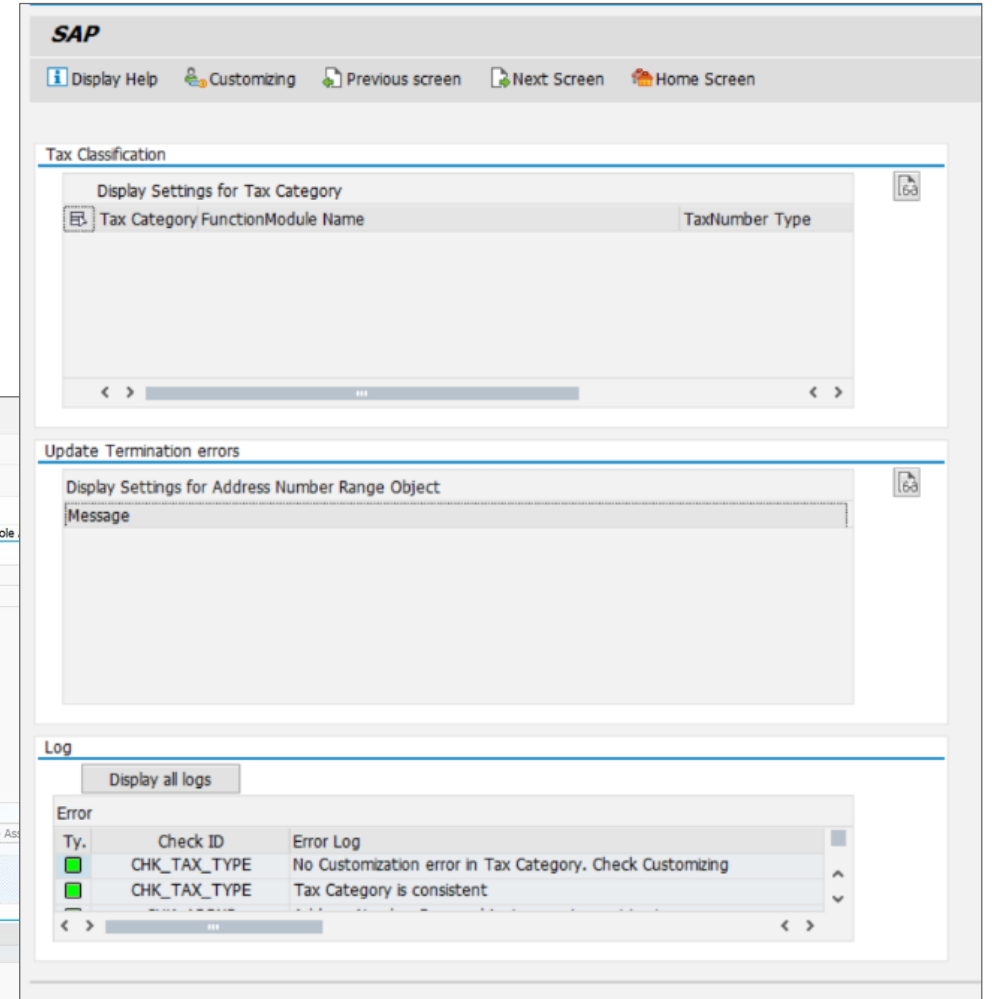
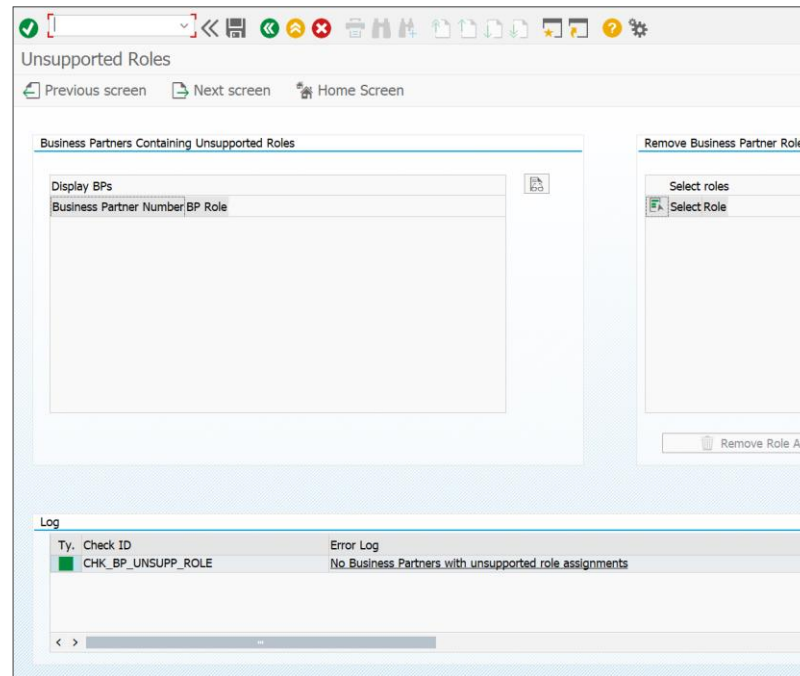
At the bottom of the interface, there is a text input field labeled 'No of Entries to be queried' and a button labeled 'Check and Display Results'.

# Accelerators for Customer/Vendor Integration Synchronization

## Report CVI\_UPGRADE\_CHECK\_RESOLVE – General settings

### General settings checks and resolution

- Tax classification
- Address number range
- Check role Customizing



# Report CVI\_UPGRADE\_CHECK\_RESOLVE – Customer/supplier to BP

LABS PREVIEW

## Customer/supplier to BP checks and resolution

- BP role for every account group needed
- BP grouping for every account needed
- Missing industry key
- Customer value mapping (marital status etc.)

The screenshot displays the SAP Customer Integration configuration interface. At the top, it shows 'Settings for Customer Integration' with navigation options like 'Display Help', 'Customizing', 'Previous screen', 'Next screen', and 'Home Screen'. Below this, there are two main tables: 'Settings for Business Partner roles' and 'Settings for Business Partner groupings'. The 'Business Partner roles' table lists roles for account groups 0001, WVA1, and WVA0, all assigned to role FLCU01. The 'Business Partner groupings' table shows groupings for account group 0001, with WVA1 and WVA0 grouped under WAC. Below these tables is a 'Log' section showing 'No Customizing errors'. Overlaid on this are three smaller windows: 1) 'Mapping: Customer Account Group -> Role' showing a table of account groups and roles. 2) 'Mapping: Customer Account Group -> BP Grouping' showing a table of account groups and BP groupings. 3) 'Customer Value Mapping' showing several mapping tasks like 'Activate Assignment of Contact Persons', 'Missing Department Numbers for Contact pers...', 'Missing VIP Indicator for Contact Person', 'Missing Marital statuses', 'Missing Legal form to Legal status', and 'Missing Payment cards'. A separate window shows 'Select Industry system' with 'Standard Industry Sy' selected for industry 0001. At the bottom, an error log window displays the message: 'Error: Ty, Check ID Error Log: CHK\_BP\_ROLE Customization error in Customer Account Group->Role Mapping. Check Customizing'.

# Report CVI\_UPGRADE\_CHECK\_RESOLVE – BP to customer/supplier



## BP to customer/supplier checks and resolution

- Check setup BP role category for direction BP to customer
- Check definition number assignment for direction BP to customer
- Customer value mapping (marital status etc.)
- Missing industry system

The image displays three overlapping screenshots from the SAP Customer Integration interface. The top screenshot shows the 'Settings for Business Partner roles' table with columns for BP Role and checkboxes. The middle screenshot shows the 'Customer Value Mapping Post Checks' section with several sub-tables for missing data like 'Missing Department Numbers for Contact Person' and 'Missing Marital Statuses'. The bottom screenshot shows the 'Industry System Mapping' table with columns for Industry, Industry Key, and Description, and a list of checked items. An error log at the bottom right indicates 'Inconsistencies in Assignment of Outgoing Industries'.

Archiving Object	Archiving: Check Phase Logs	BP Role
FLCU00	Business Partner FI Customer (FS: BP)	X
FLCU01	Business Partner Customer (FS: BP)	X
TR0100	Main Loan Partner (FS: CML)	
TR0120	Authorized Drawer (FS: CML)	
TR0121	Other Loan Partner with Customer Account (FS: CML)	
TR0151	Counterparty (FS: CFM / CML)	X
TR0202	Alternative Payer (FS: CML)	
TR0600	Master Tenant with Customer Account (FS: RE)	X
TR0603	Partner with a Customer Account (FS: CML)	X
TR0624	Subsizer (with Customer Account) (FS: CML)	X
TR0150	Issuer (FS: CFM / CML)	
TR0605	Owner with Customer Account (FS: RE)	X
TR0818		X

Description	Archiving: Check Phase Logs	Order	Overview Display Order	Overview Legal Status to	Legal Form	Direction	Archiving: Check Phase Logs	Ed
0001	Int.No.Assignmnt	01				DEBI	Customer (general)	01
0002	Ext.No.Assignmnt	AB	X			KUNA	Customer (ext.number assignmnt)	XX
GPEX	Ext.No.Assignmnt	AB	X			DEBI	Customer (general)	01
GPIN	Int.No.Assignmnt	01				DEBI	Customer (general)	01

Function	Description	Select
0005	Quality Officer	✓
0006	Production Manager	✓

BP: Lega.	Description	Select B
01	Corporation	✓
02	P.L.C.	✓
03	P.Lim.by Shares	✓
04	P.Lim.by Shares	✓
05	P.L.C.& Co LP	✓
06	Gen. Partnership	✓
07	Private Company	✓
08	Co., Ltd.	✓

Industry	Industry	Industry Key	Description	Industry
0001	0000000	0003	Consumer Products	✓
0001	0000000	0003	Electronics	✓
0001	0000000	0003	Toys	✓
0001	0000000	0003	Chemical Industry	✓
0001	0000000	0003	Mechanical Engineering	✓
0001	0000000	0003	Banks	✓
0001	01	0003	Diversified Holding Companies	✓
0001	02	0003	Financial Services	✓
0001	03	0003	Real Estate	✓
0001	10	0003	Energy Supply / Distribution	✓
0001	11	0003	Oil, Gas	✓
0001	12	0003	Raw Materials	✓
0001	13	0003	Precious Metals	✓
0001	21	0003	Chemical Industry	✓
0001	22	0003	Health	✓
0001	23	0003	Glass	✓
0001	24	0003	Construction Industry	✓
0001	25	0003	Bulking Supplier	✓
0001	26	0003	Paper and Pulp	✓
0001	27	0003	Timber and Infrastructure	✓

Type	Check ID	Error Log
✓	CHK_CP_TB910	Department Assignment for Contact Person is consistent
✓	CHK_CP_TB912	Function of Partner Assignment for Contact Person is inconsistent
✓	CHK_CP_TB914	Partner Authority Assignment for Contact Person is consistent
✓	CHK_CP_TB916	VIP Indicator Assignment for Contact Person is consistent
✗	CHK_CP_TB027	Marital Status Assignment for Partner is inconsistent

# Report CVI\_UPGRADE\_CHECK\_RESOLVE – C/S/CP with BP link checks



## Missing links to business partners Checks for

- Customers
- Supplier
- Customer contact persons
- Supplier contact persons
- Downloads unsynchronized customer/supplier data when starting synchronization cockpit

The screenshot shows the 'CVI Customizing checks for synchronization' interface. It includes a 'Synchronization Cockpit' button, a 'log' button, and a 'Suppress Log' button. Below these are input fields for 'Customer' and 'Supplier'. The main area displays two side-by-side tables:

Missing Customer and Supplier link to BP	
Customers	Suppliers
Customer	Supplier
000000001	##1
000000002	000004569
000000003	000005000
000000006	000005001
000000011	000005002
000000021	000005005
000000031	000005006
000000032	000005010
000000036	000005015
000000037	000005016
000000046	000005021
000000072	000005025
000000079	000100044
000000091	000100056
000000092	000100057
000000101	000100058
000000103	000100059
000000104	000100205
000000107	000100225
000000111	000100248
000000116	000100295

Missing Customer and Supplier to Contact Person to BP	
Customers	Suppliers
Customer	Supplier
000000003	AB_VND_01
000000136	ACO-VEND-1
000000232	ACO-VEND1
000000431	ACO-VENDB
000000446	ALAIN
000000477	ALPESH
000010085	DPP_RUNG
0000100115	EAM_DPP_V2
0000100134	EAM_DPP_VE
0000100145	HK_SUBCO02
0000100150	KVEN->BP
0004466434	LIEFER-LA
0004466435	MK_VENDOR
0004466437	NHTEST
0004466438	NS-VENDOR1
0004466439	R0001
AL01	RAJ-VENDOR
ALAIN	RWA_VENDOR
ALAINSP	SAL08
AP_BP_CUS	SD_DPP_1
BECKER03	TB_VENDOR



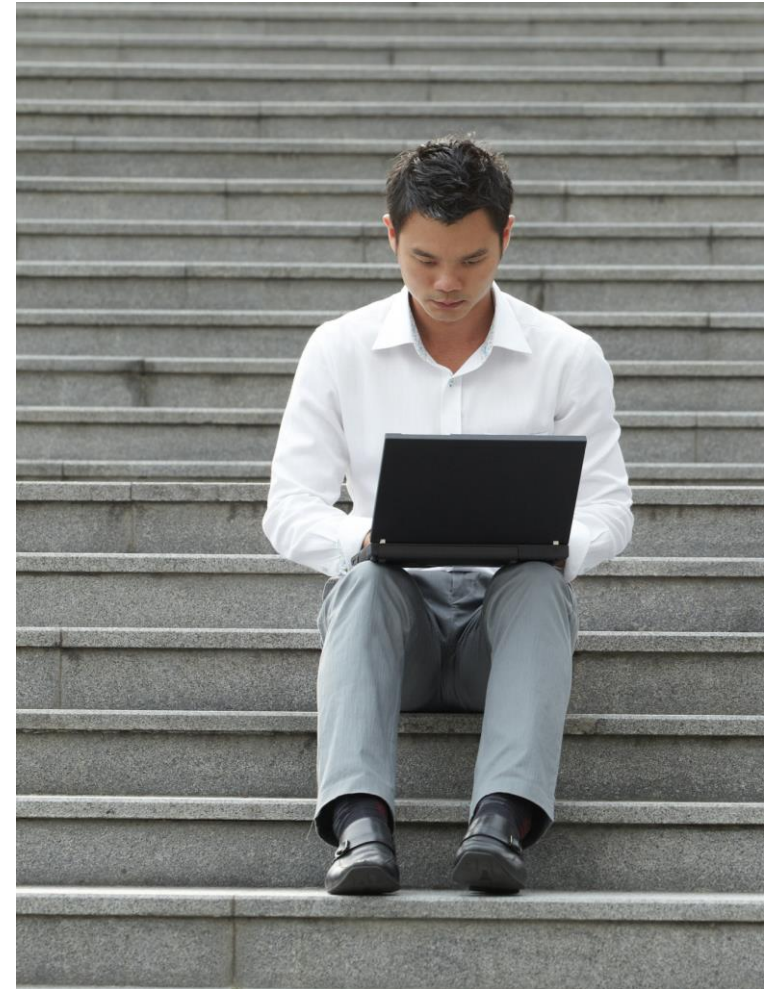
# Accelerators for Customer/Vendor Integration Synchronization

## Report CVI\_UPGRADE\_CHECK\_RESOLVE – Prerequisites

### Prerequisites

- Planned to be standard with ECC 618 SP13 and higher and to be downported to ECC 600\*
- For lower SPs from ECC 600 to ECC 618:
  - Implement Note [2344034 – SAP S/4HANA Automation for Master Data Migration](#) including manual steps

\* Forward-looking statement, please respect legal disclaimer slide



# Accelerators for Customer/Vendor Integration Synchronization

## Report CVI\_MIGRATION\_PRECHK – Overview

### Report *Prevalidation: Master Data Consistency Check (CVI\_MIGRATION\_PRECHK)*

- Transaction Master Data Consistency Check (CVI\_PRECHK)
- Supports checking customer and vendor master data before conversion to business partner

The screenshot shows the configuration interface for the 'Prevalidation: Master Data Consistency Check' report. It includes sections for 'General Selection' (Customer/Vendor), 'Business Checks' (with checkboxes for Tax Code, Postal Code, Email, Transportation Zone, Tax Jurisdiction, Number Range, Industry, Bank Data, and Address), 'Technical Details' (Server Group, Description, Background), and 'Run History' (Status, Created on, to).

The screenshot shows the results of the Master Data Consistency Check. It displays the following summary information:

- Object Type: Customer
- Description: All Checks
- Total Records Processed: 1858
- Total Error Count: 76

Serial Number	Object ID	Business Check	Technical Field Name	Field Value	Error Description
1	AFU1004	Postal Code	ADRC-POST_CODE1		POST_CODE1 is missing for country DE
2	AFU1072	Postal Code	ADRC-POST_CODE1		POST_CODE1 is missing for country DE
3	0000000021	Number Range	NUMBERRANGE	0000000021	Customer number 0000000021 not in range A and ZZZZZZZZZZ.
4	0000000001	Postal Code	ADRC-POST_CODE1		POST_CODE1 is missing for country DE
5	0000000006	Number Range	NUMBERRANGE	0000000006	Customer number 0000000006 not in range A and ZZZZZZZZZZ.
6	0000000010	Address	ADRC-NAME2	test.....	Length of ADRC-NAME2 must not exceed 35 characters.
7	0000000010	Postal Code	ADRC-POST_CODE3	9865	9865 is not valid for country DE
8	0000000010	Number Range	NUMBERRANGE	0000000010	Customer number 0000000010 not in range A and ZZZZZZZZZZ.
9	0000000011	Number Range	NUMBERRANGE	0000000011	Customer number 0000000011 not in range A and ZZZZZZZZZZ.
10	0000000007	Number Range	NUMBERRANGE	0000000007	Customer number 0000000007 not in range A and ZZZZZZZZZZ.
11	0000000009	Tax Code	KNA1-STCEG	FR12345678901	EU Tax Number FR12345678901 for Country FR is incorrect
12	0000000009	Number Range	NUMBERRANGE	0000000009	Customer number 0000000009 not in range A and ZZZZZZZZZZ.
13	0000000016	Number Range	NUMBERRANGE	0000000016	Customer number 0000000016 not in range A and ZZZZZZZZZZ.
14	0000002130	Address	ADRC-STREET	streette32e2e2ejefoueritrrrrroeuifhe	Length of ADRC-STREET must not exceed 35 characters.
15	AFU1089	Postal Code	ADRC-POST_CODE1	7937	7937 is not valid for country DE
16	AFU1100	Postal Code	ADRC-POST_CODE1	7937	7937 is not valid for country DE
17	AFU116	Postal Code	ADRC-POST_CODE1		POST_CODE1 is missing for country DE
18	AFU130	Postal Code	ADRC-POST_CODE1		POST_CODE1 is missing for country DE

# Accelerators for Customer/Vendor Integration Synchronization

## Report CVI\_MIGRATION\_PRECHK – Checks

### Checks

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



# Accelerators for Customer/Vendor Integration Synchronization

## Report CVI\_MIGRATION\_PRECHK – Additional checks

### Additional Checks

- Additional checks can be added
- Use BAdI CVI\_CUSTOM\_PRECHK (transaction SE18)
- Custom implementation

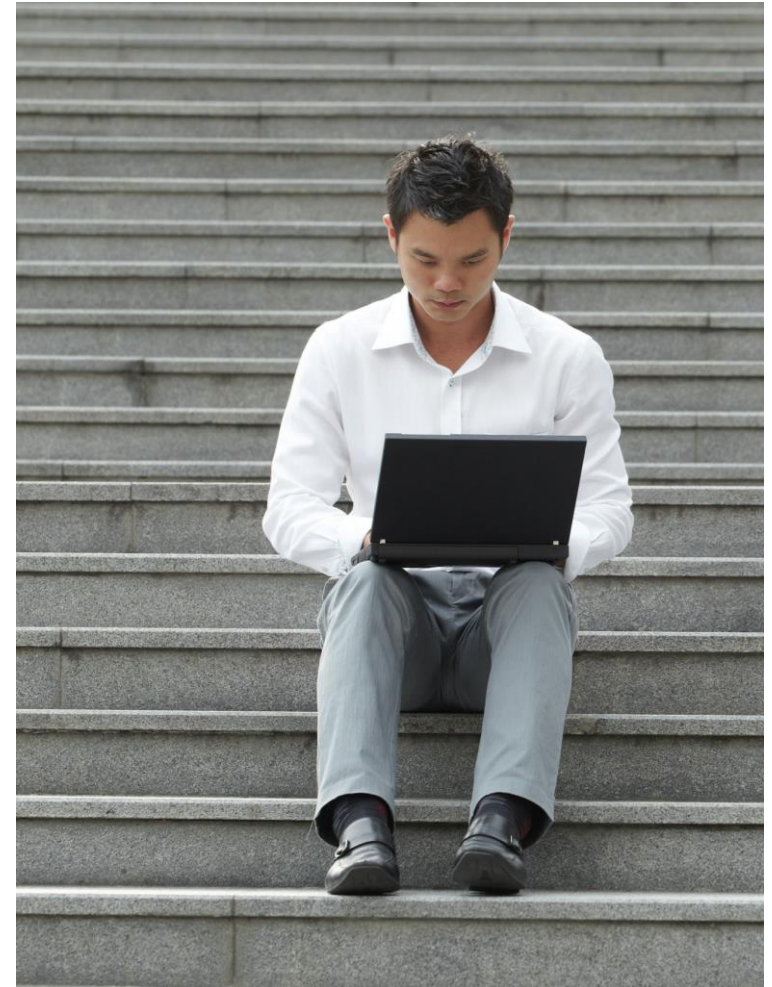


# Accelerators for Customer/Vendor Integration Synchronization

## Report CVI\_MIGRATION\_PRECHK – Prerequisites

### Prerequisites

- Available within standard since ECC 618 SP12 and downported to ECC 600
- For lower SPs from ECC 600 to ECC 618:
  - Implement Note [2743494 – Prevalidation: Master Data Consistency Check](#)
  - If prompted as prerequisite for releases less than SAP\_APPL 605, implement Note [2778739 – Prevalidation: Master Data Consistency Check – DDIC creation](#) and follow the manual steps



# Thank you.

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Week 3: Business Partner

## Unit 4: Business Data Toolset Framework and Enhancements

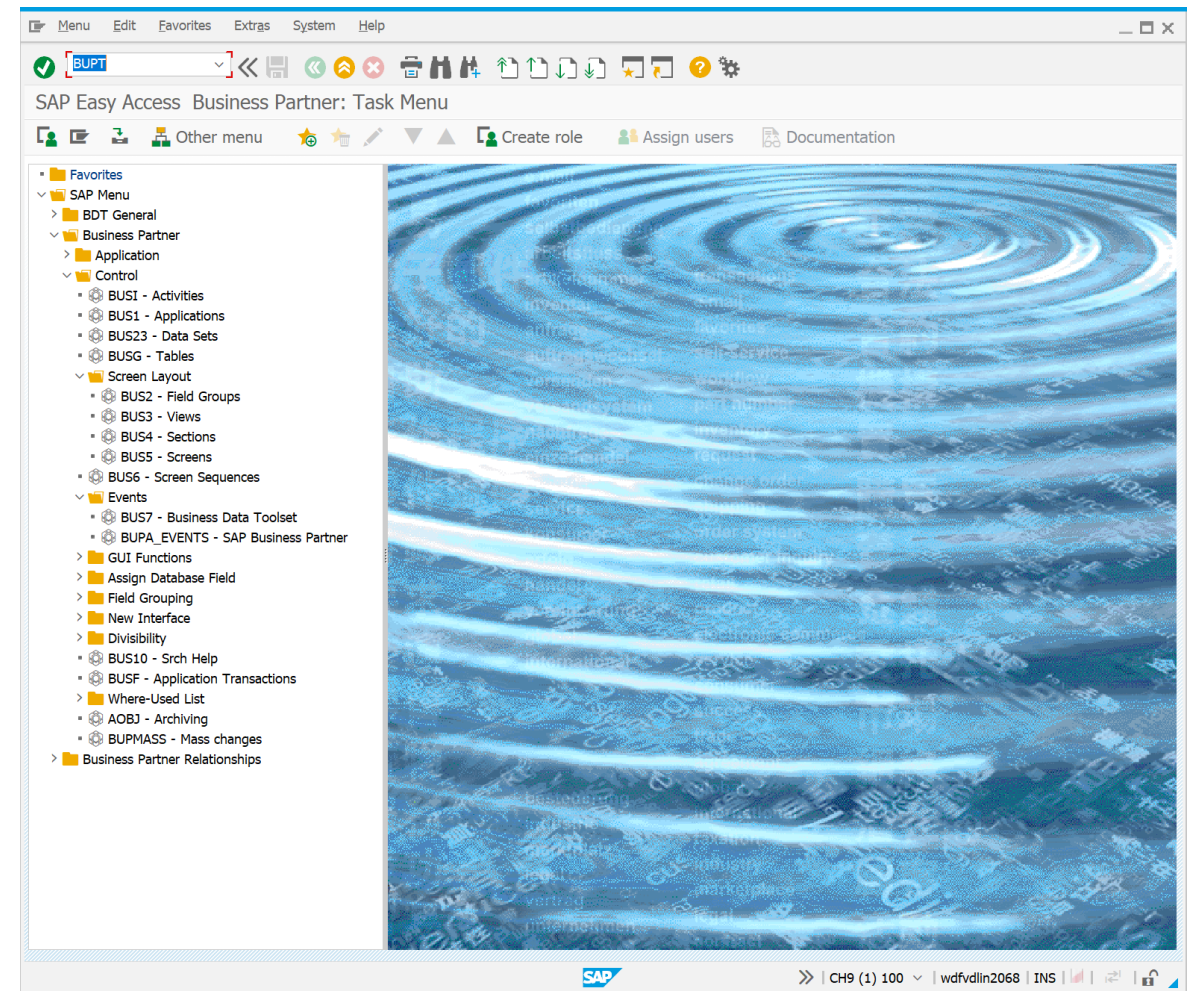


# Business Data Toolset Framework and Enhancements

## Introduction to the Business Data Toolset

### Business Data Toolset (BDT)

- Tool to configure/extend Business Partner transaction
- Access via Business Data Toolset menu
  - /n (to get back into main menu)
  - transaction BUPT (call Business Data Toolset-Menu)
- Objects of Business Data Toolset
  - Applications
  - Screen Sequences
  - Events
  - Screen Layout
    - Screens
    - Sections
    - Views
    - Field Groups



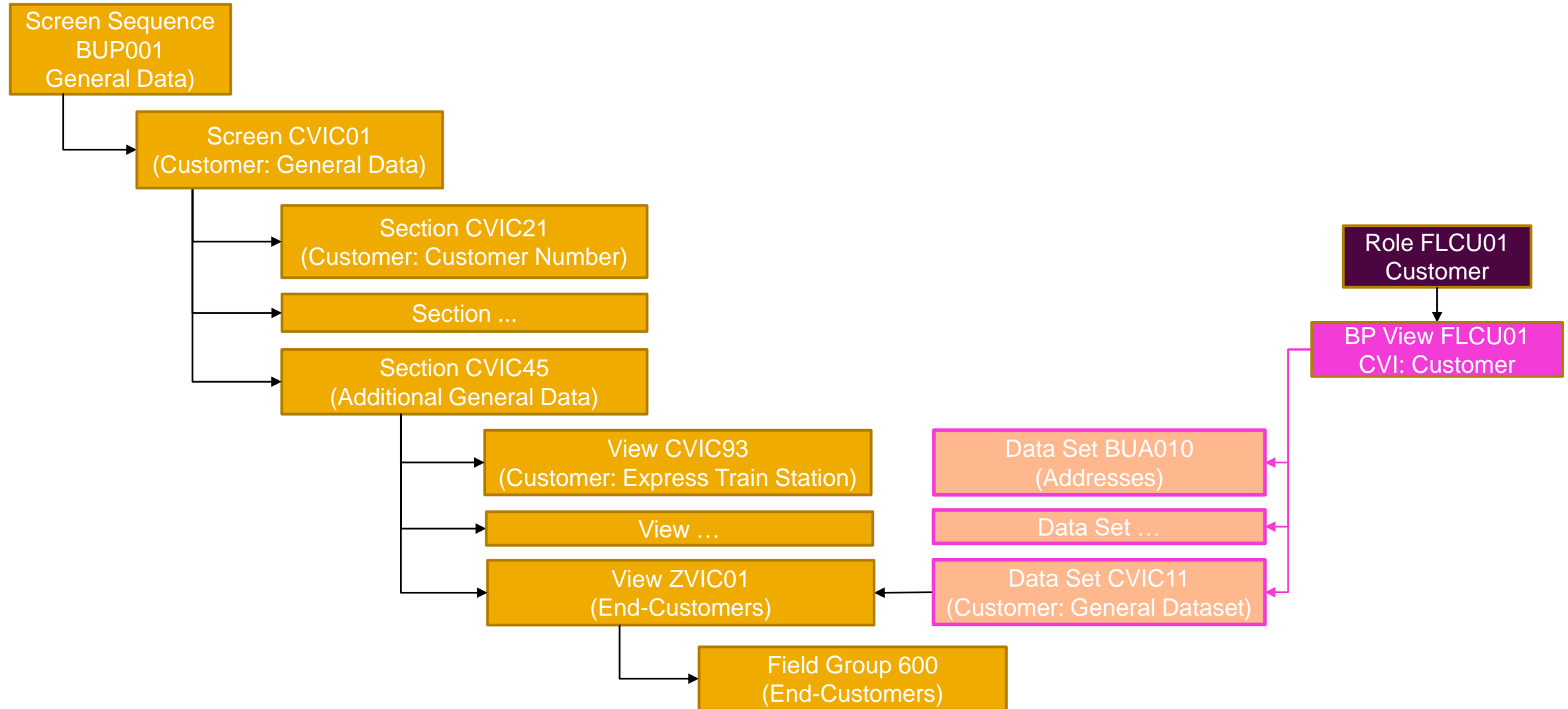
## Screen structure

- Screen Sequence (transaction BUS6)
  - a screen sequence consists of one or more screens
- Screen (transaction BUS5)
  - a screen consists of one or more sections
- Section (transaction BUS4)
  - a section consists of one or more views
- View (transaction BUS3)
  - a view consists of one or more field groups
  - Technically = screen (dynpro)
- Field Groups (transaction BUS2)
  - a field group consists of one or more fields

The screenshot displays a SAP Business Data Toolset Framework interface for customer data. At the top, the Business Partner is 10100001, and the display is set to FLCU01 Customer. The navigation bar includes tabs for Address, Address Overview, Identification, Control, Payment Transactions, Status, Legal Data, Screen (Customer: General Data), and Screen Sequence (Customer: Tax Data, Customer: A...). The main content area is divided into sections: Customer Number (10100001), FI Customer Assignment (Account Group: CUST), and General Data (Vendor: 10300001). The Additional General Data section is highlighted with an orange border and contains a View (green border) with fields for Express station, Train station, Location code, Annual sales (0.00), Currency, Sales year (0), Employee (10000), Year (2019), Plant, and Employee (10000). A pink box highlights the Express station field, labeled as Field and Field Group. The word Section is written in orange on the right side of the Additional General Data section.

# Business Data Toolset Framework and Enhancements

## Screen control based on business partner role

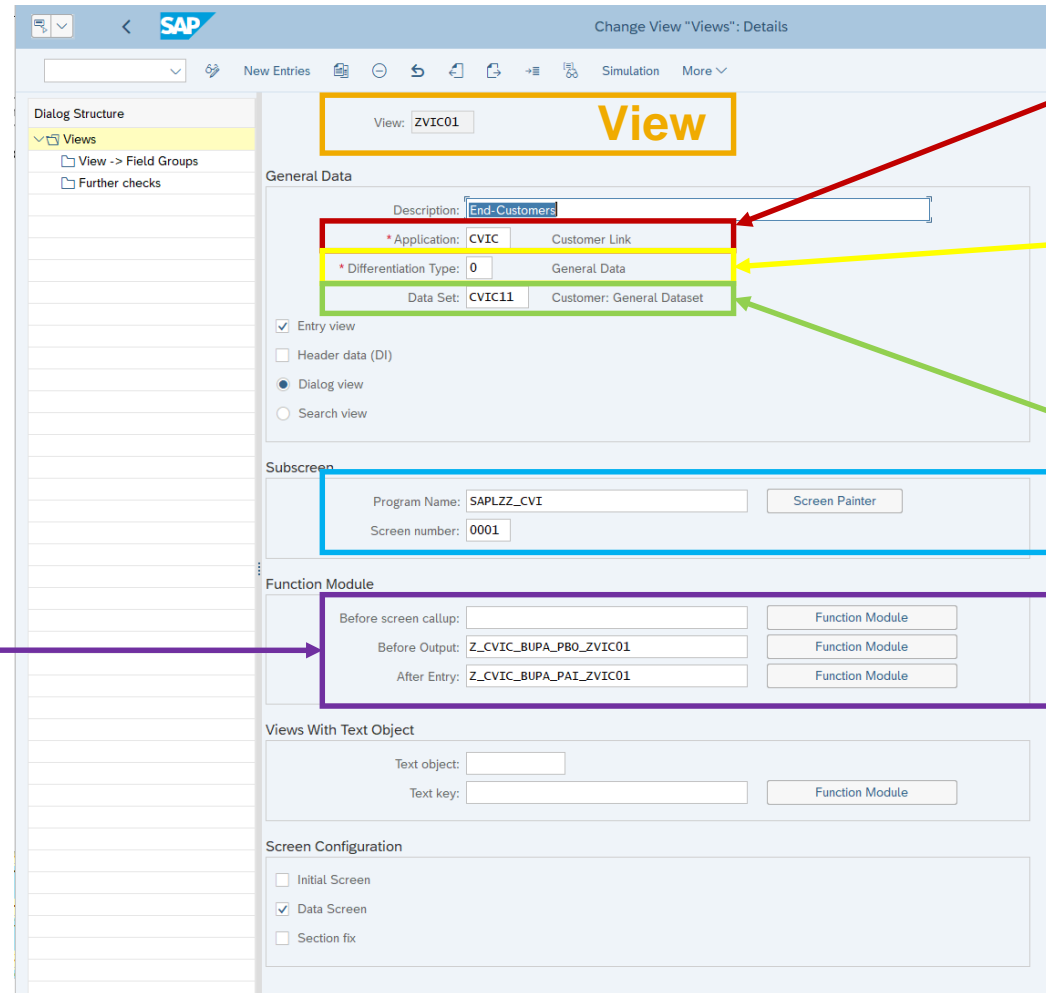


# View definition

Field Group  
Assignment

Own Check Modules (at  
Process After Input (PAI))

Screen Function  
Modules



Application

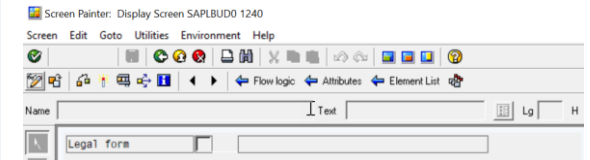
Differentiation Type

- General
- Company Code
- Sales Area

Data Set

- Assignment to Role

Technical Screen



## Enhancement – How to integrate Z field into Business Partner transaction

### SAP Note 2309153

#### ■ Development

- Create screen with Z field
- Flow logic PBO (Process Before Output)
  - Function module BUS\_PBO (calls PBO function module from Customizing)
- Flow logic PAI (Process After Input)
  - Function module BUS\_PAI (calls PAI function module from Customizing)

#### ■ Customizing

- Create field group
- Create data set
- Create view → assign field group, data set, technical screen, PAI/PBO modules
- Create section → assign view
- Create screen if necessary → assign section
- Edit screen sequence if necessary



# Thank you.

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Week 3: Business Partner

## Unit 5: SAP CRM Integration in SAP ERP and SAP S/4HANA



## Agenda

### Phases

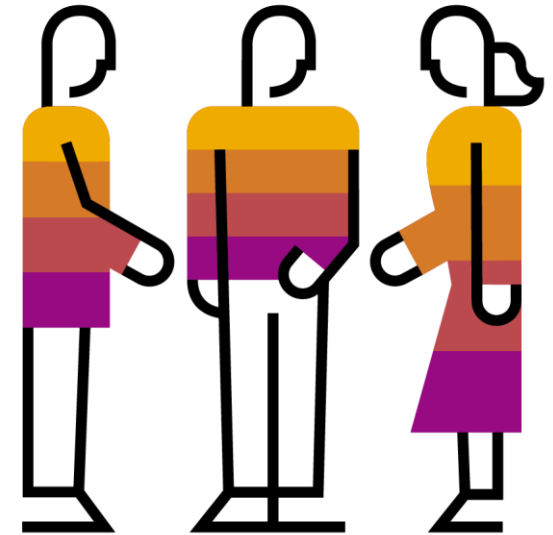
SAP ERP: before activating CVI

SAP ERP: mass synchronization of customer master data

SAP ERP: after activating CVI

SAP S/4HANA: after SUM

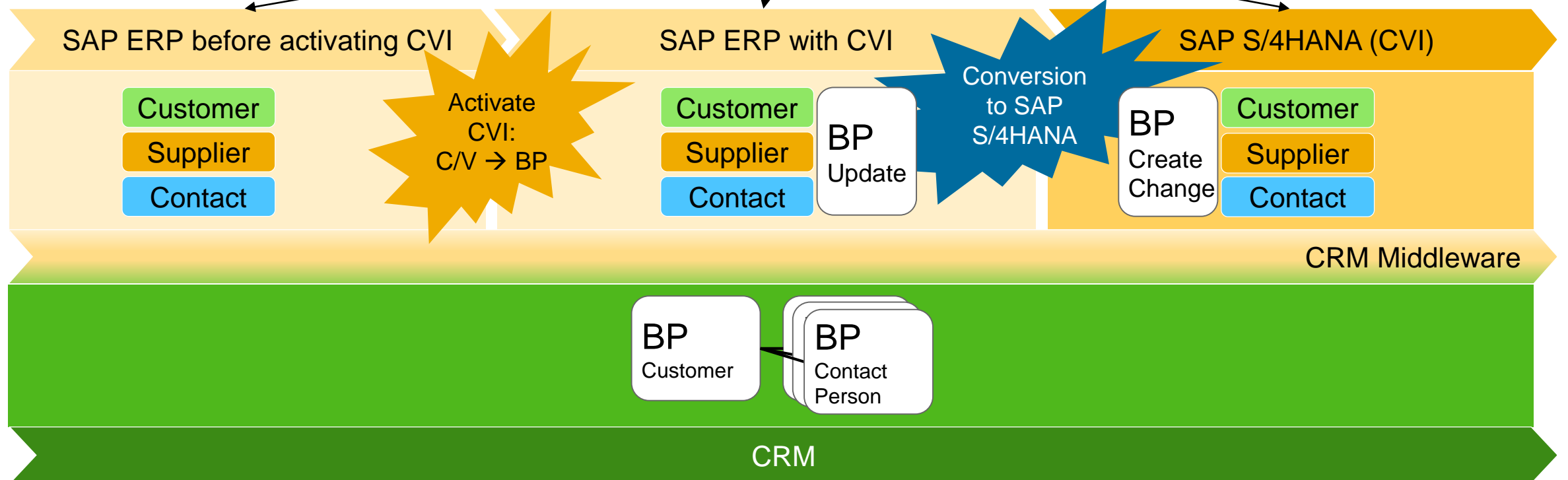
Lessons learned



# SAP CRM Integration in SAP ERP and SAP S/4HANA Phases

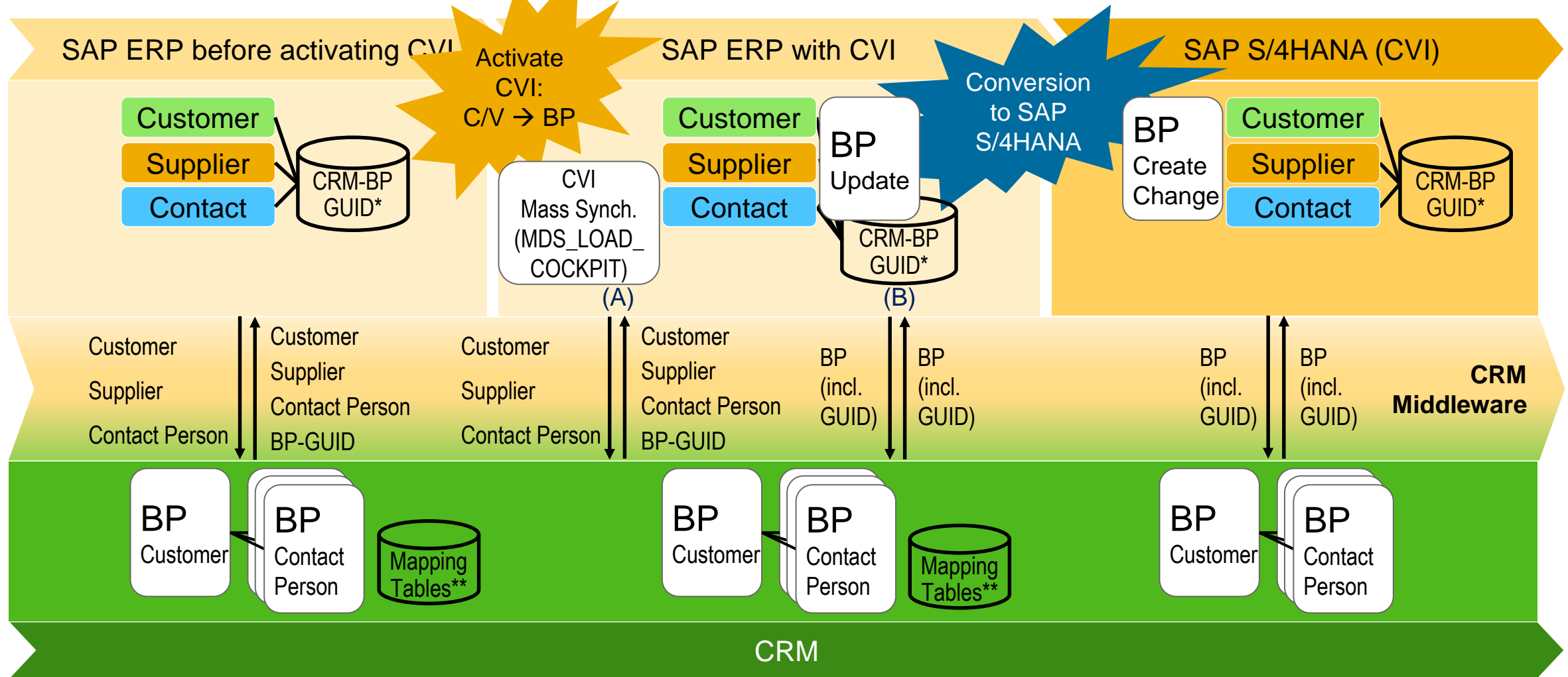
Leading Note: [2285062 – S4TWL: Business partner data exchange between SAPCRM and S/4HANA, on-premise edition](#)

Further Notes



# SAP CRM Integration in SAP ERP and SAP S/4HANA

## Phases



\* ERP: CRM-BP GUIDs are stored in ERP in tables CRMKUNNR, CRMLIFNR, CRMPARNR

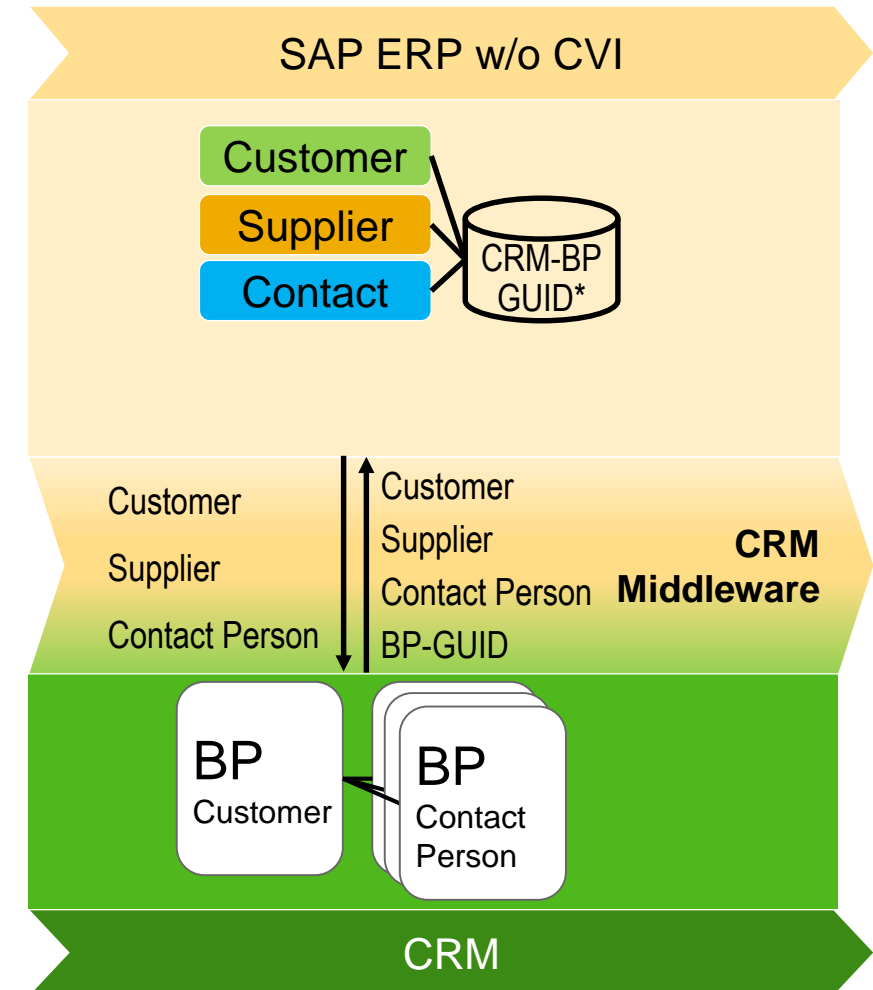
\*\* CRM: CRMKUNNR (ERP) = CRMM\_BUT\_CUSTNO (CRM), CRMLIFNR (ERP) = CRMM\_BUT\_VENDNO (CRM), CRMPARNR (ERP) = CRMM\_BUT\_CONTNO (CRM)

## Phase SAP ERP: before activating CVI

- SAP CRM Middleware is up and running
- In general, no change in setup of CRM Middleware required

### Prepare activation of CVI

- Important: check consistency and completeness of SAP CRM mapping tables containing BP-GUIDs from SAP CRM:
  - CRMKUNNR (customer master)
  - CRMPARNR (contact persons)
  - CRMLIFNR (vendor master)
- Imperative check and implement Notes
  - [2283695 – Synchronization cockpit generates business partners with wrong GUIDs by ignoring SAP CRM mapping tables](#)
  - [2420959 – Address GUID RFC BADI for CVI MAPPER](#)



## Phase: after activating CVI – Mass synchronization of customer master data

### Before mass synchronization

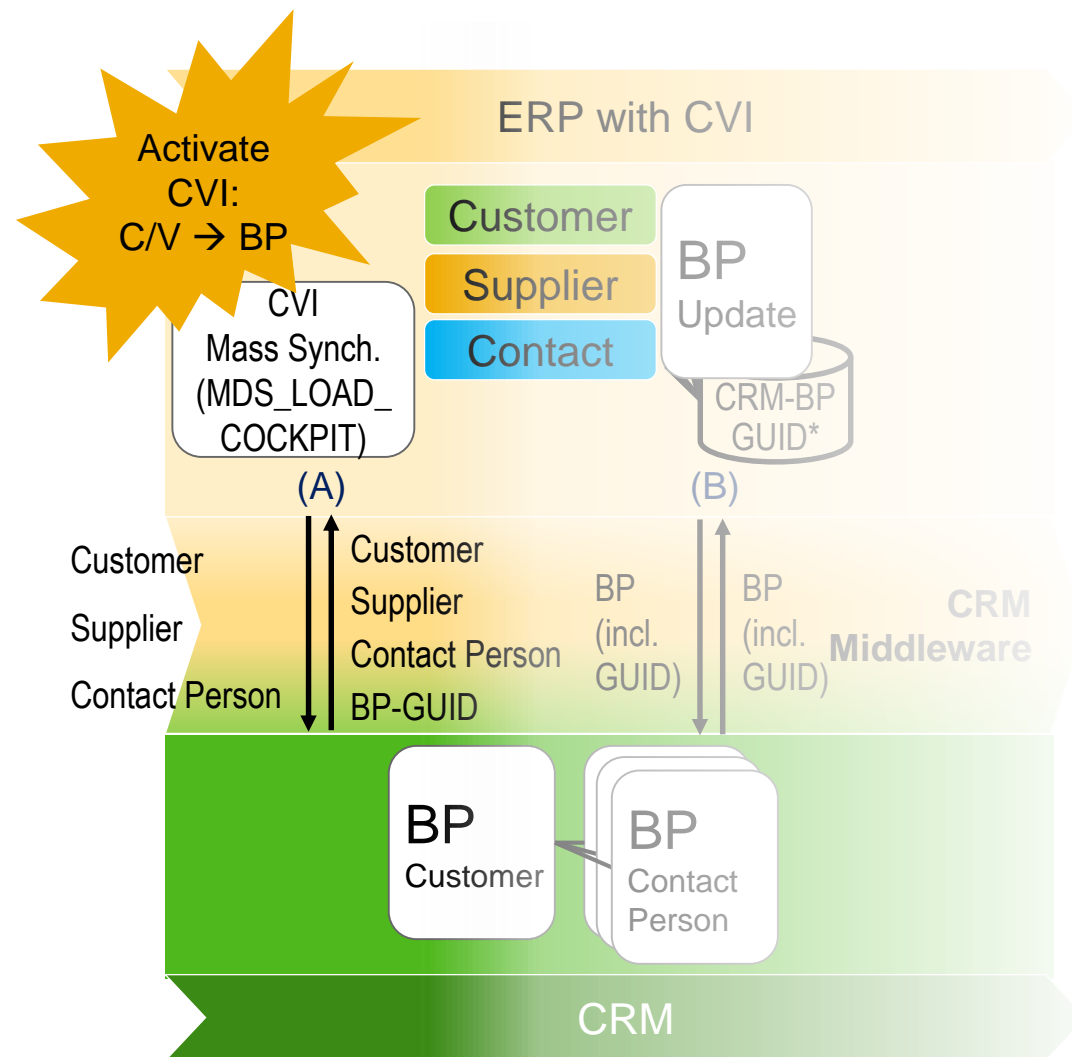
- Deactivate CRM Middleware (e.g. in transaction CRMC\_BUT\_CALL\_FU deactivate function modules COM\_BUPA\_MWX\_CREATE\_MAIN, COM\_BUPA\_MWX\_CREATE\_REL)

### Mass synchronization with MDS\_LOAD\_COCKPIT

- GUIDs from CRM mapping tables are used to create BP

### After mass synchronization

- Change setup of CRM Middleware
- Reactivate CRM Middleware
- Check for any inconsistent GUIDs with report from note [2304337 – Description note for Pre Check Class for Badi implementation CVI MAPPER](#)



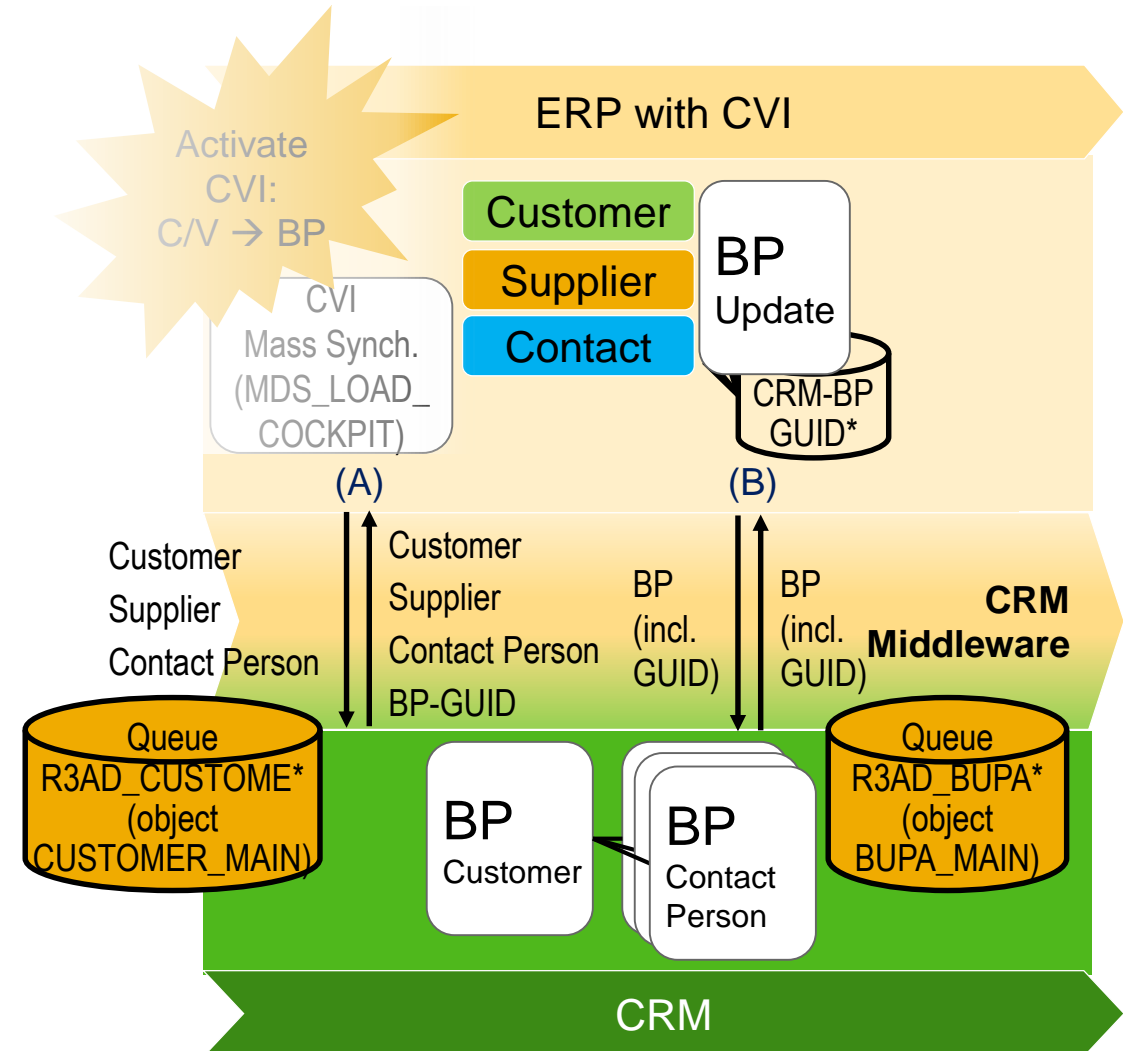
## Phase: after activating CVI – CRM Middleware: customer or business partner?

2 main objects are available for SAP ERP outbound:

- CUSTOMER\_MAIN
- BUPA\_MAIN

Tasks:

- Decide on one of the objects for replication
- → use Note [1808119 – Creating or Changing ECC customer results in two queues in CRM](#)
- Both directions for CVI sync in SAP ERP have to be activated (C → BP / BP → C)



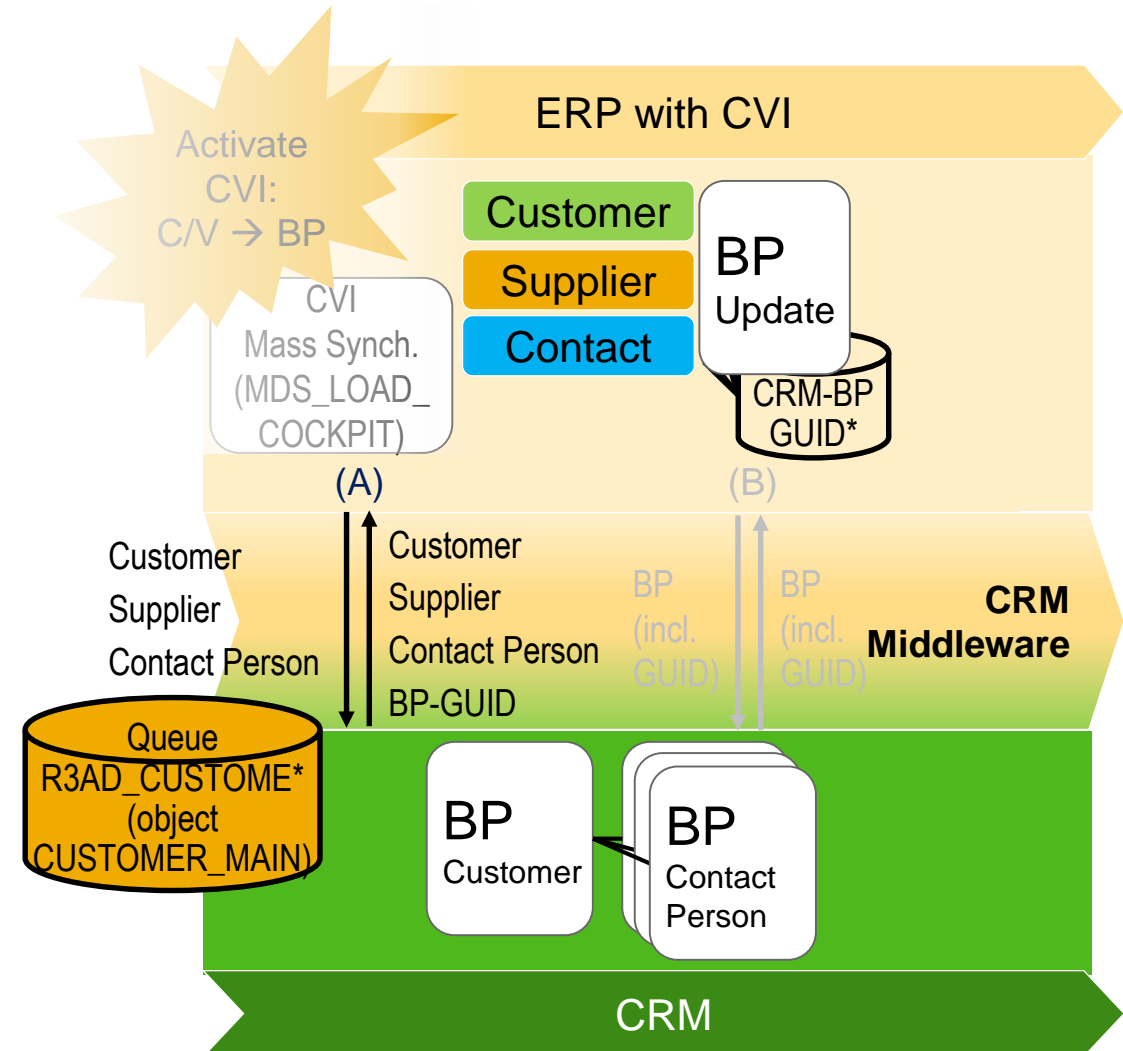
## Phase: after activating CVI – Set up CRM Middleware (variant A)

### Customer master is leading object

- Respective steps from Note [1808119 – Creating or Changing ECC customer results in two queues in CRM](#) are required only
- BP outbound is suppressed
- No further change in Middleware is required

### Considerations

- No use of extended BP features (e.g. multiple addresses)



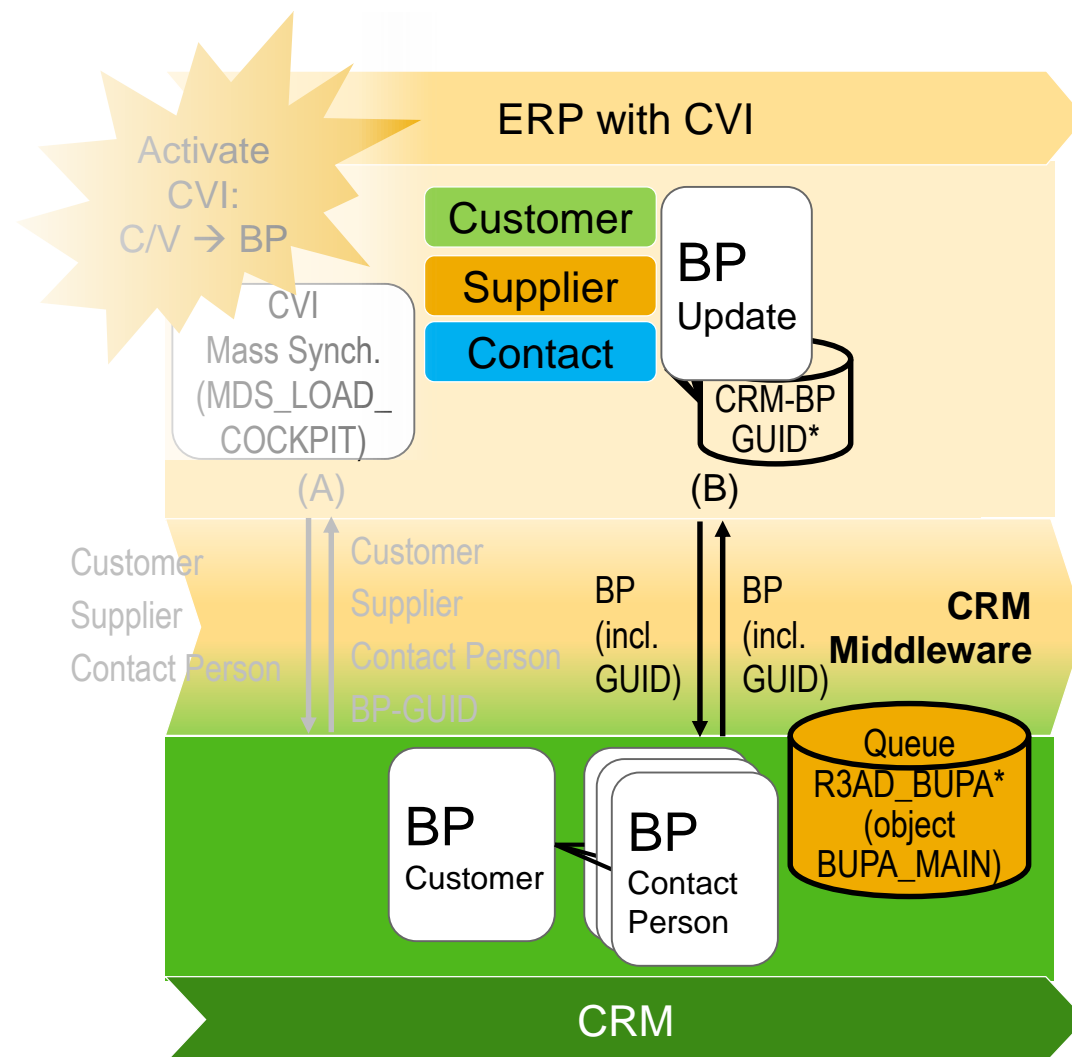
## Phase: after activating CVI – Set up CRM Middleware (variant B)

### Business partner is leading object

- Follow instructions from Notes [1968132 – Business partner replication between CRM and ECC with active CVI](#)
- Data from business partner and customer master are combined

### Considerations

- Requires number equality between CRM business partner, ECC business partner and ECC customer master
- This solution does not replace any industry-specific solution
- SAP ECC Release 617 or higher (SP04 or higher recommended)





# SAP CRM Integration in SAP ERP and SAP S/4HANA

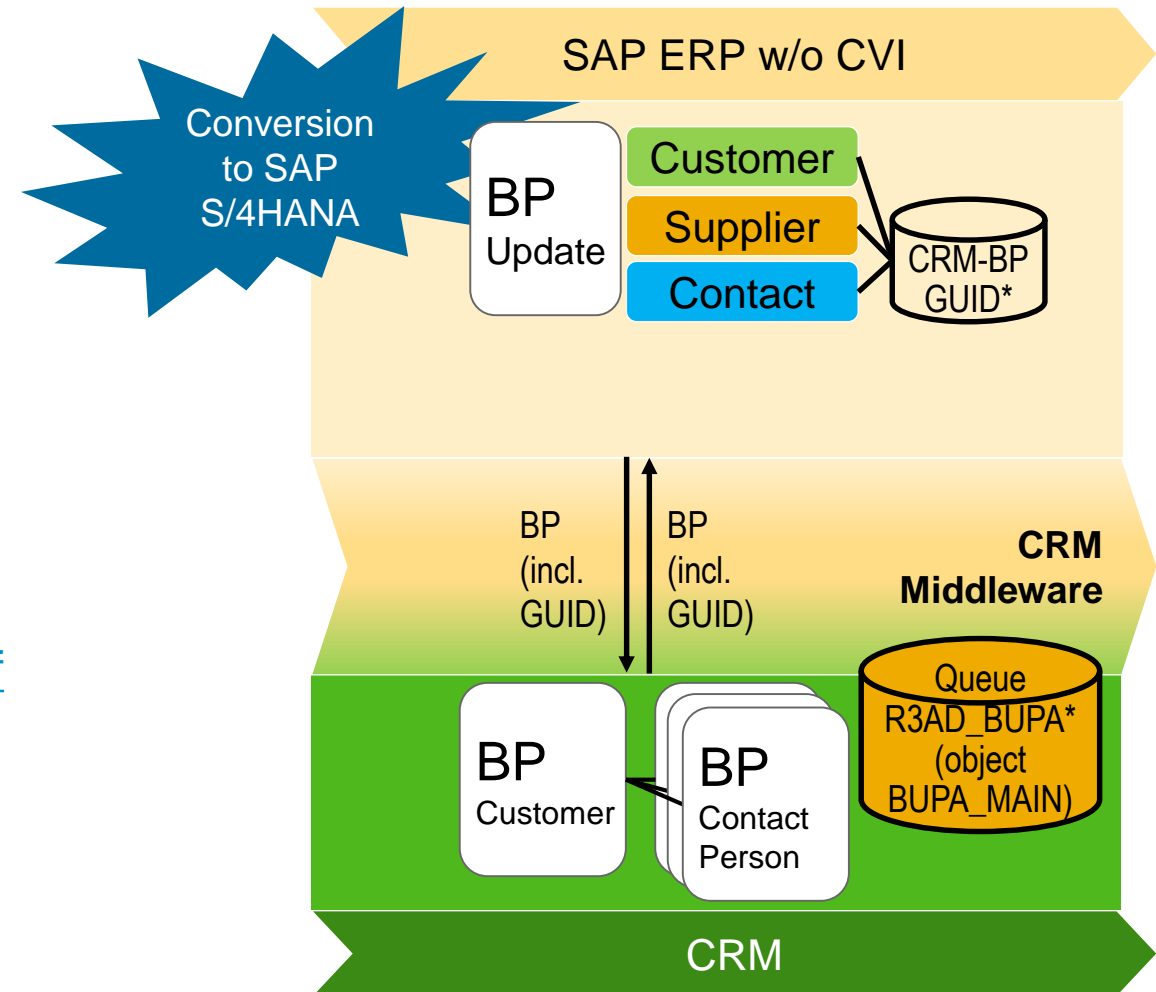
## Phase: SAP S/4HANA: after SUM

**Business partner** is the leading object

- Settings from Note [2283810 – Customizing settings for business partner data exchange between SAP S/4HANA, on-premise edition and SAP CRM](#)
- Execute these steps in business downtime after SAP S/4HANA conversion

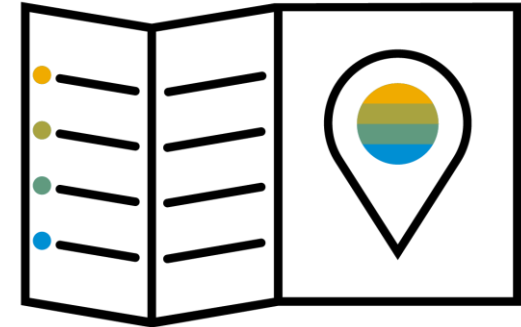
Considerations

- [2231667 – Restrictions for integration of SAP S/4HANA, on-premise edition with SAP CRM](#)
- Partially resolved with Note [2324473 – Integration of SAP CRM with SAP S/4HANA: resolved restrictions](#)



## Lessons learned

- For own mappings you can register respective Z function modules.  
Consider: MDG consumes certain events from Middleware Customizing (e.g. CRMOU)
- Industry solutions: own guides, also affecting CRM Middleware → overruling setting described here
- Inconsistent GUIDs: solutions available for
  - mapping ERP with CRM GUIDs  
[2654430 – Data exchange between SAP CRM and S4 is not possible as Guide of the Business partners are different in both the systems for the old business partners.](#)
  - bypassing the pre-checks  
[2674508 – S/4HANA precheck reports error out for SAP CRM mapping table inconsistencies](#)



# Thank you.

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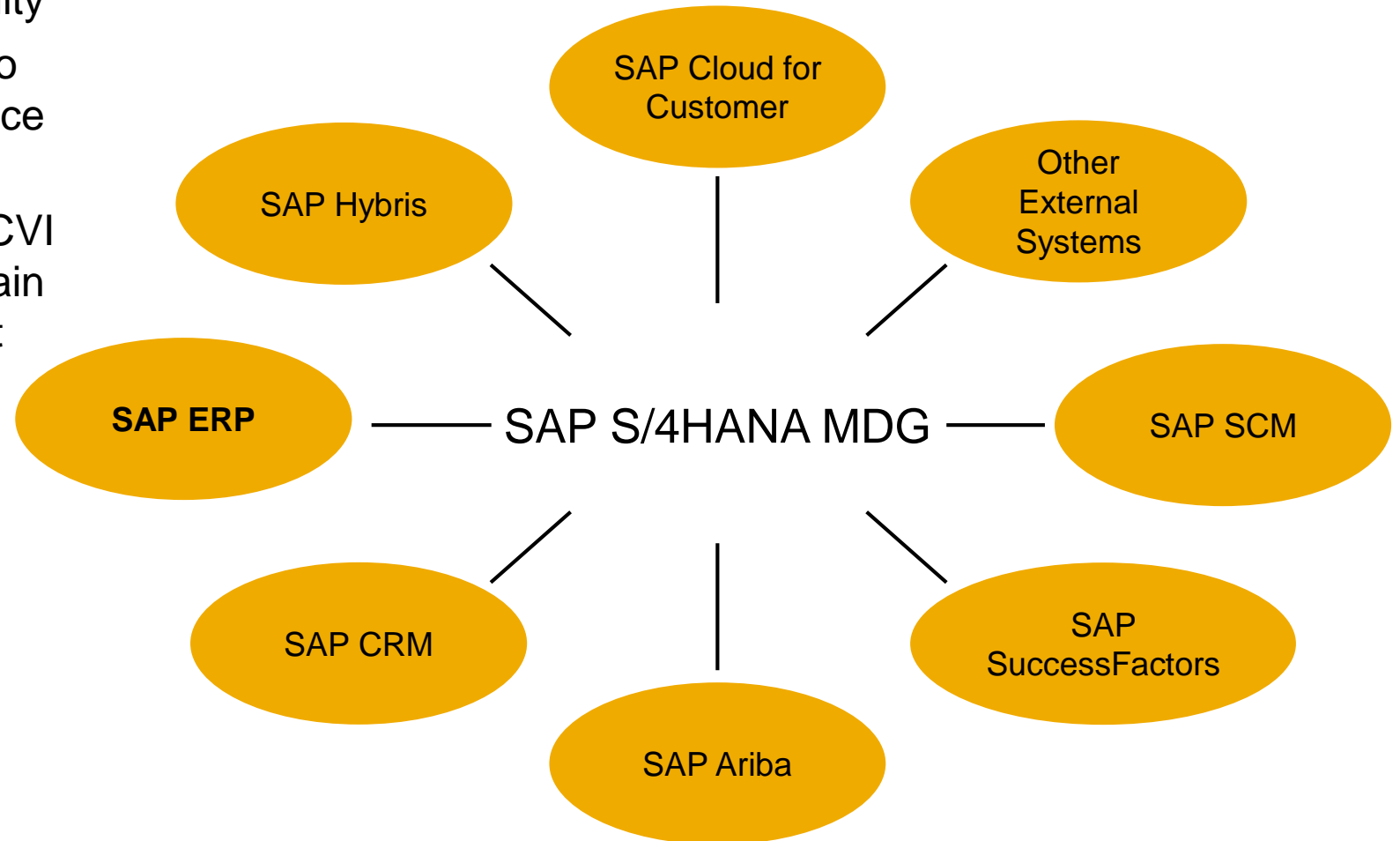


Week 3: Business Partner

# Unit 6: Decentralized Master Data Governance Hub with SAP S/4HANA

## General context

- Master data governance applicability
- Complex environments are likely to adopt SAP Master Data Governance in SAP S/4HANA first
- This will pose a challenge from a CVI perspective and we will try to explain how the customer can overcome it



# Decentralized Master Data Governance Hub with SAP S/4HANA

## Master data governance pre-conversion project

### Key Facts



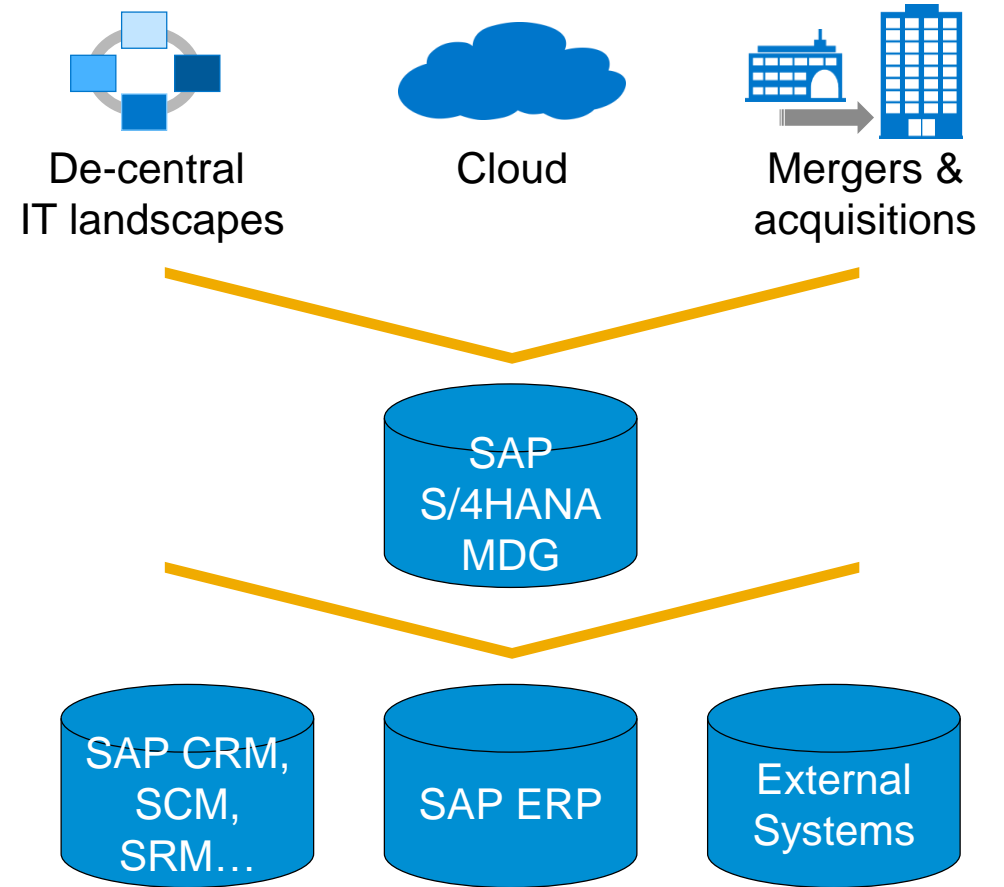
Decentralized master data governance in SAP S/4HANA is implemented and live



Single source of truth



Centrally govern master data



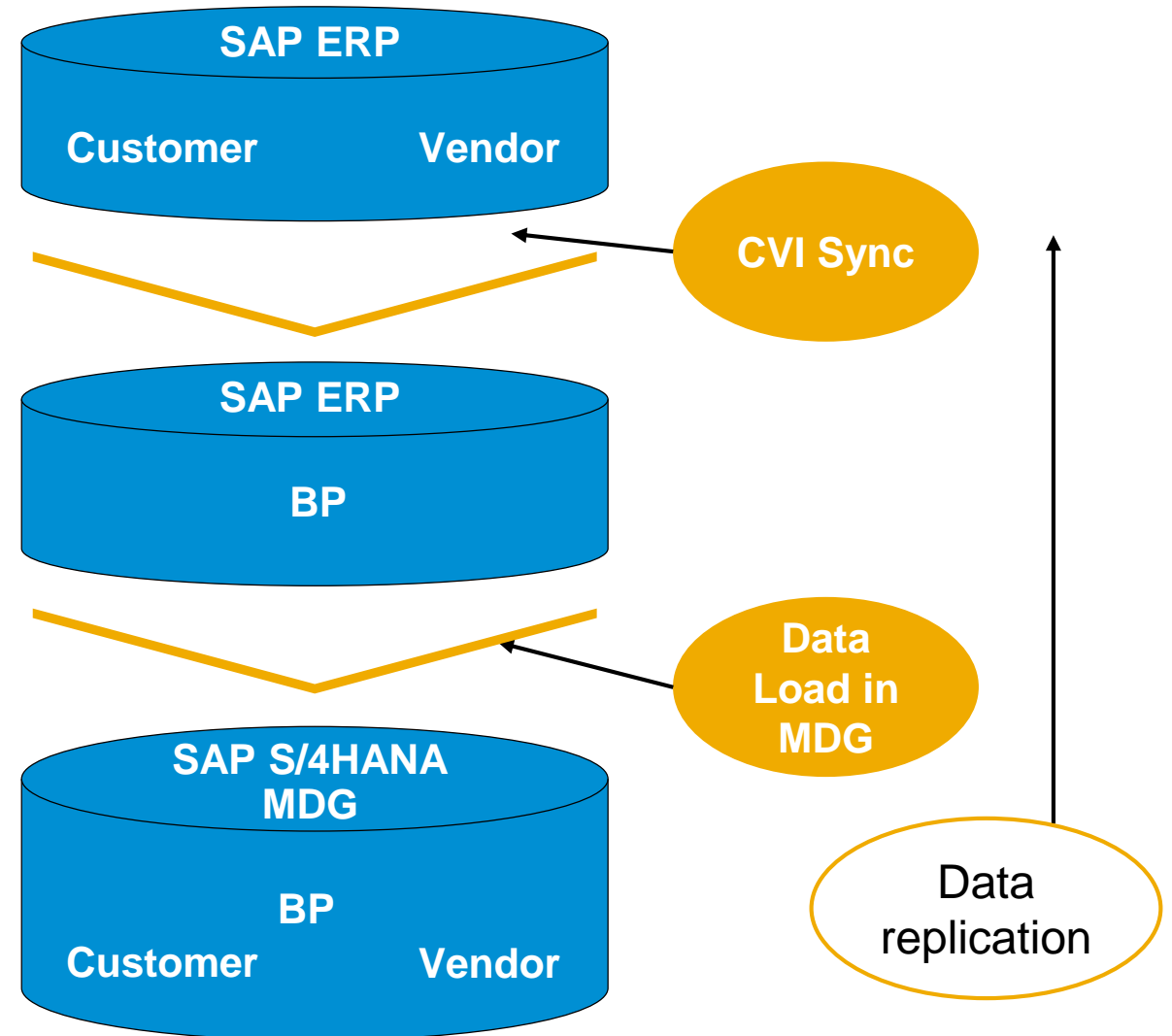
**Future SAP S/4HANA System**

## Recommendations for CVI during system conversion from SAP ERP to SAP S/4HANA



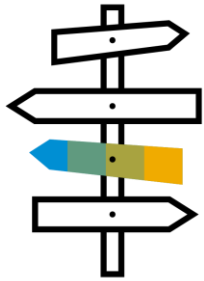
Master data was not yet loaded in MDG from the SAP ERP system:

- Configure and execute the CVI synchronization tool in SAP ERP
- Load business partners from SAP ERP to MDG system
- MDG system is the single source of truth



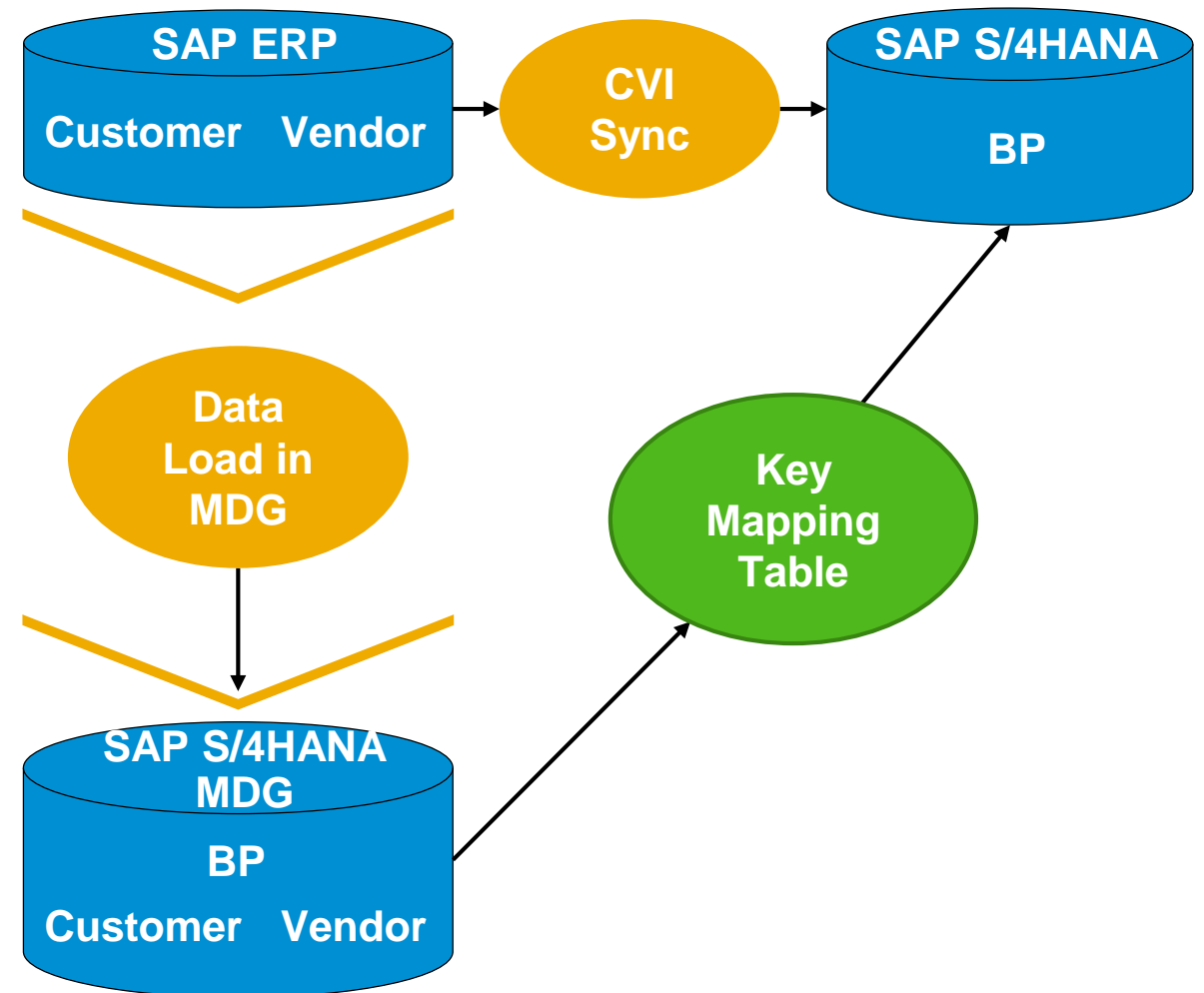


## Recommendations for CVI during system conversion from SAP ERP to SAP S/4HANA

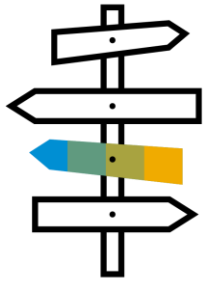


Data was already loaded in MDG:

- Configure and execute the CVI in SAP ERP system
- Once CVI is 100% the system gets converted to SAP S/4HANA
- Once SAP ERP is on SAP S/4HANA, a key mapping table is created
- The key mapping table will be uploaded in SAP S/4HANA MDG that will link master data to the new converted SAP S/4HANA system

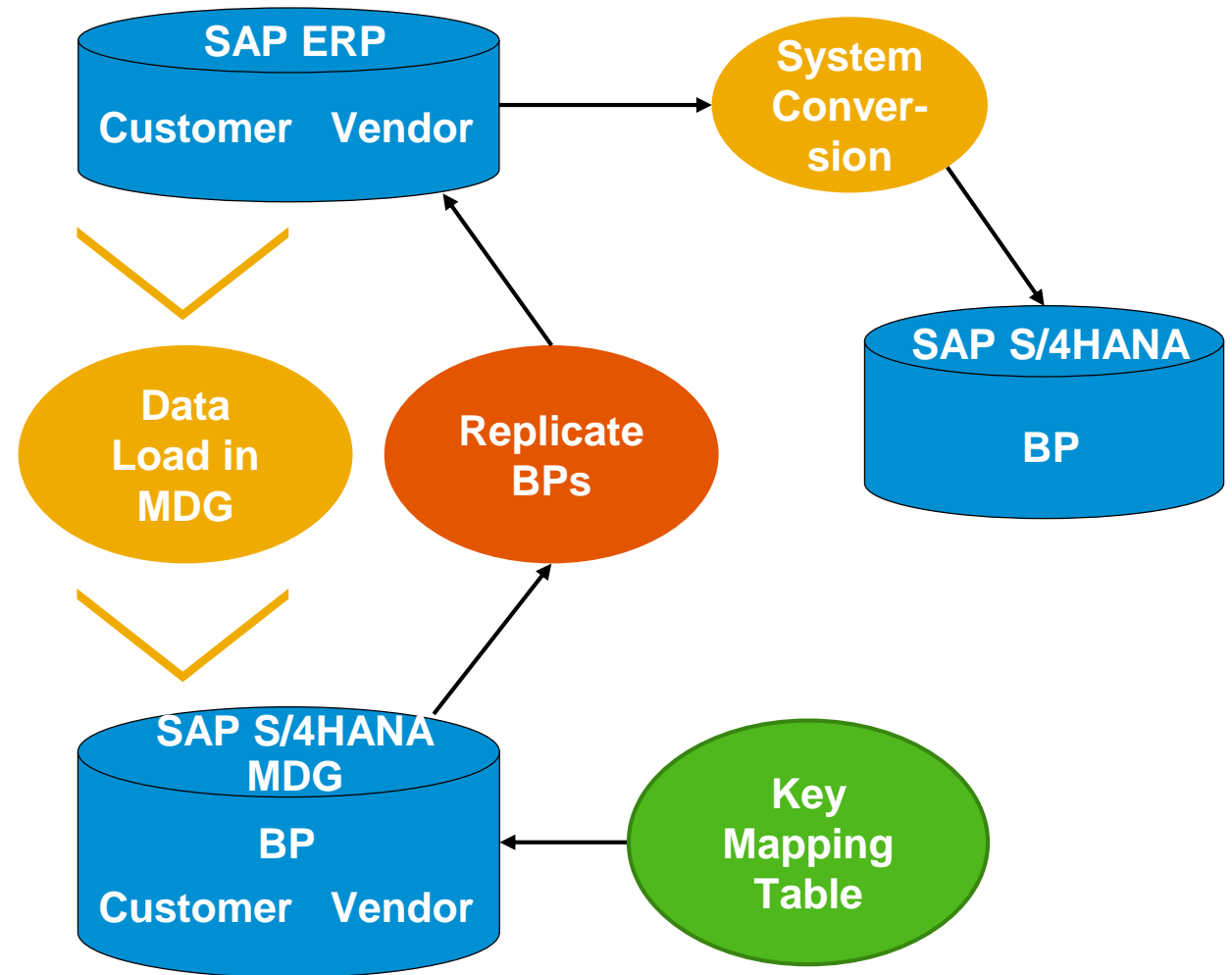


## Recommendations for CVI during system conversion from SAP ERP to SAP S/4HANA

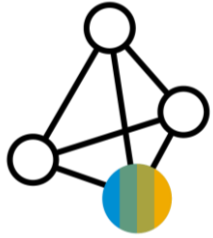


Option 2 when data was already loaded in MDG

- Key mapping table created in MDG
- Configure and customize the CVI in the SAP ERP system
- Replicate BP customers and BP vendors from SAP S/4HANA MDG to SAP ERP system
- Replication will bring link tables
- CVI synchronization does not need to happen



## End state for business partner in SAP ERP/SAP S/4HANA and MDG

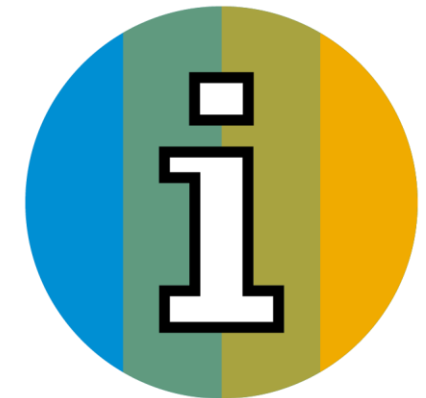


In the end state, SAP Master Data Governance will be used as a HUB for master data



## Useful notes to explore

- Functional restrictions in MDG for Business Partner / Customer / Supplier in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809  
<https://launchpad.support.sap.com/#/notes/2656712>
- Integration of Business Partner with Customer and Supplier Roles  
<https://launchpad.support.sap.com/#/notes/2417298>
- Setting Up SOA Manager for Business Partner in SAP S/4HANA  
<https://launchpad.support.sap.com/#/notes/2472030>



# Thank you.

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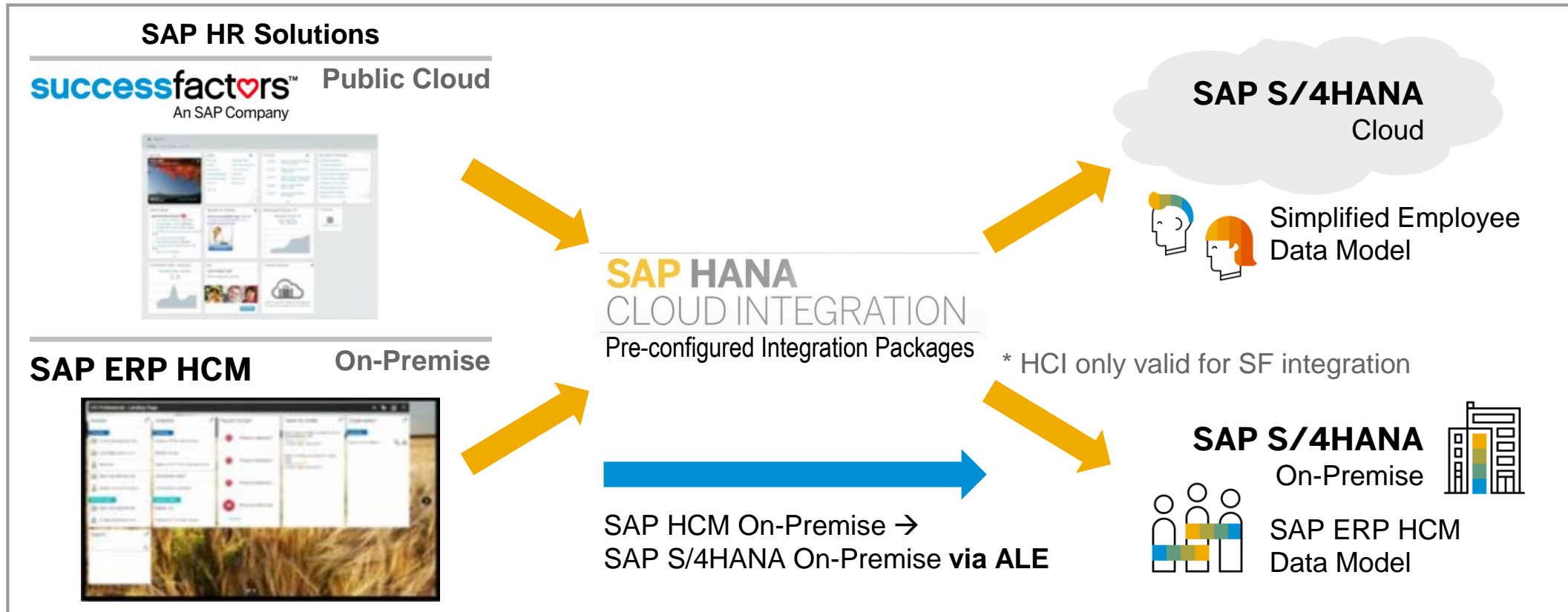
Week 3: Business Partner

# Unit 7: Synchronization of Employee Data into Business Partner

# Synchronization of Employee Data into Business Partner

## General context

- Customers transitioning to SAP S/4HANA may be running SAP ERP HCM on-premise as well
- In any transition scenario you will meet the new SAP S/4HANA data model



Note: SAP SuccessFactors, the next generation HCM suite




# Synchronization of Employee Data into Business Partner


## Your conversion to SAP S/4HANA

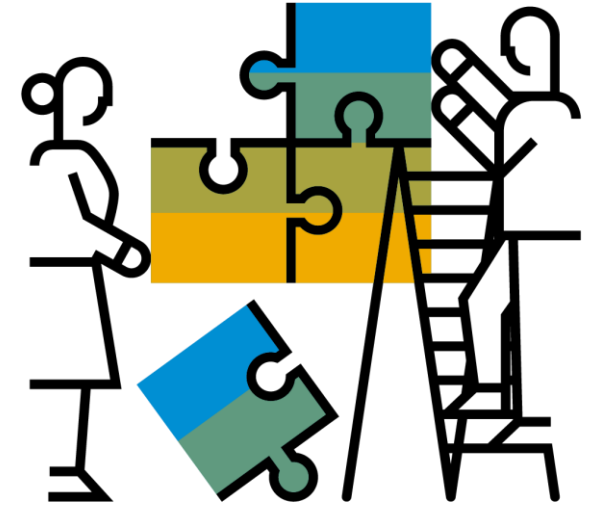


- CVI synchronization including employee vendors in the SAP ERP system
- Employee – BP synchronization in the SAP S/4HANA system

SAP Notes relevant to employee – business partner synchronization:

 **2340095** – S4TWL – Conversion of Employees to Business Partners

 **2265093** – S4TWL - Business Partner Approach

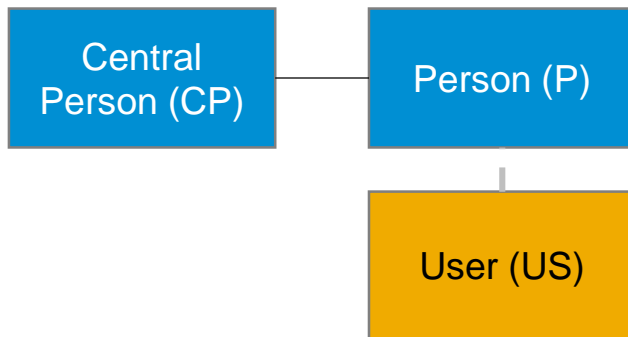


# Synchronization of Employee Data into Business Partner

## SAP ERP – Most common scenarios (before activating CVI)

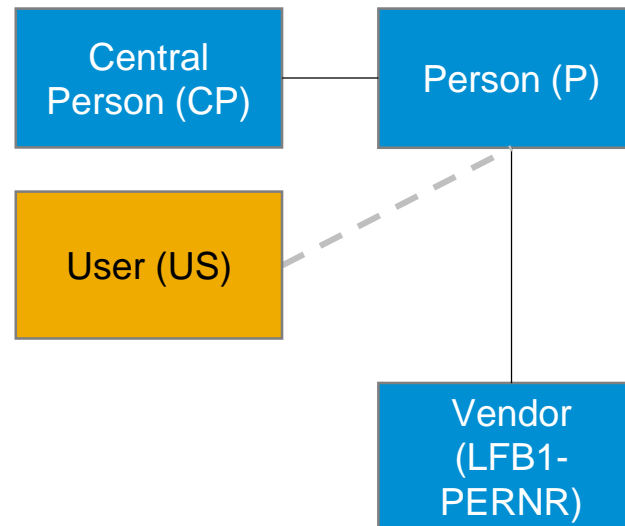
1 Deployment mode:  
ALE or inside ERP

ERP scenario where there are no employee vendors



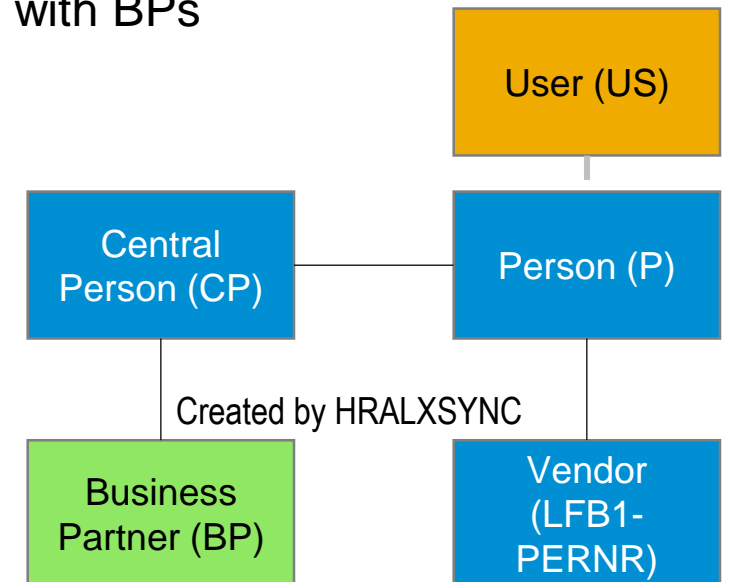
2 Deployment mode:  
ALE or inside ERP

ERP scenario where there are employee vendors



3 Deployment mode:  
ALE or inside ERP

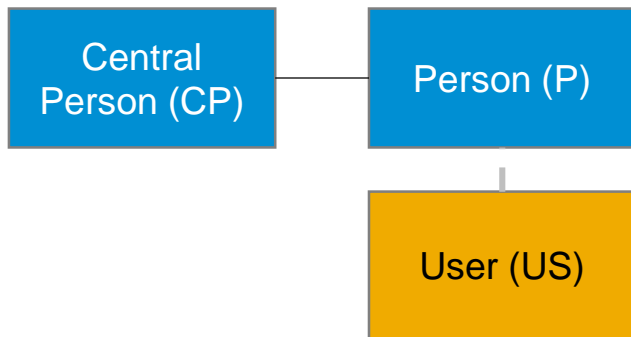
ERP scenario where there are employee vendors synchronized with BPs



# SAP ERP – Most common scenarios (after activating CVI)

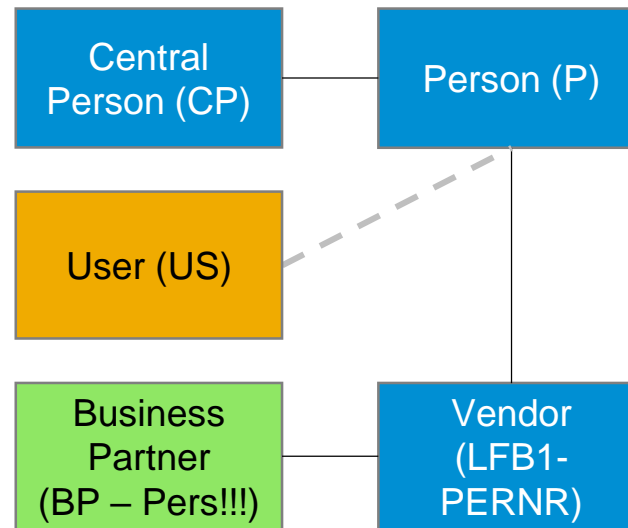
**1** Deployment mode:  
ALE or inside ERP

ERP scenario where there are no employee vendors.



**2** Deployment mode:  
ALE or inside ERP

ERP scenario where there are employee vendors.



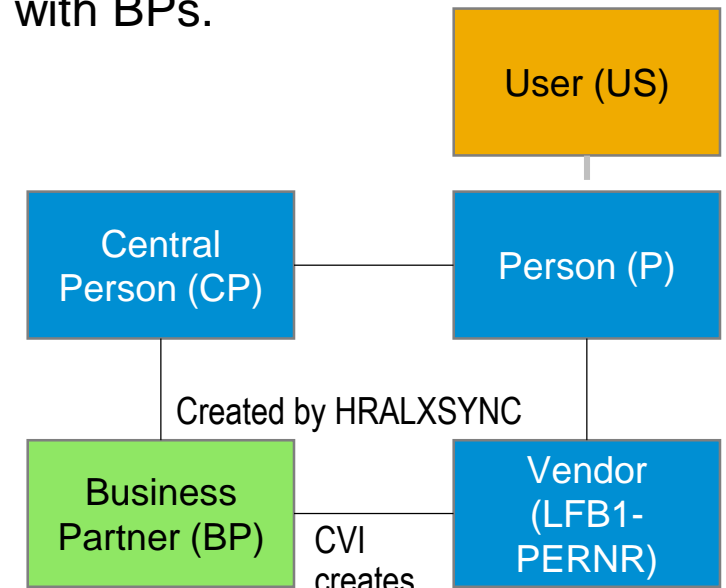
CVI creates BP and link



2539457 – CVI & employee vendors in wrong BP category

**3** Deployment mode:  
ALE or inside ERP

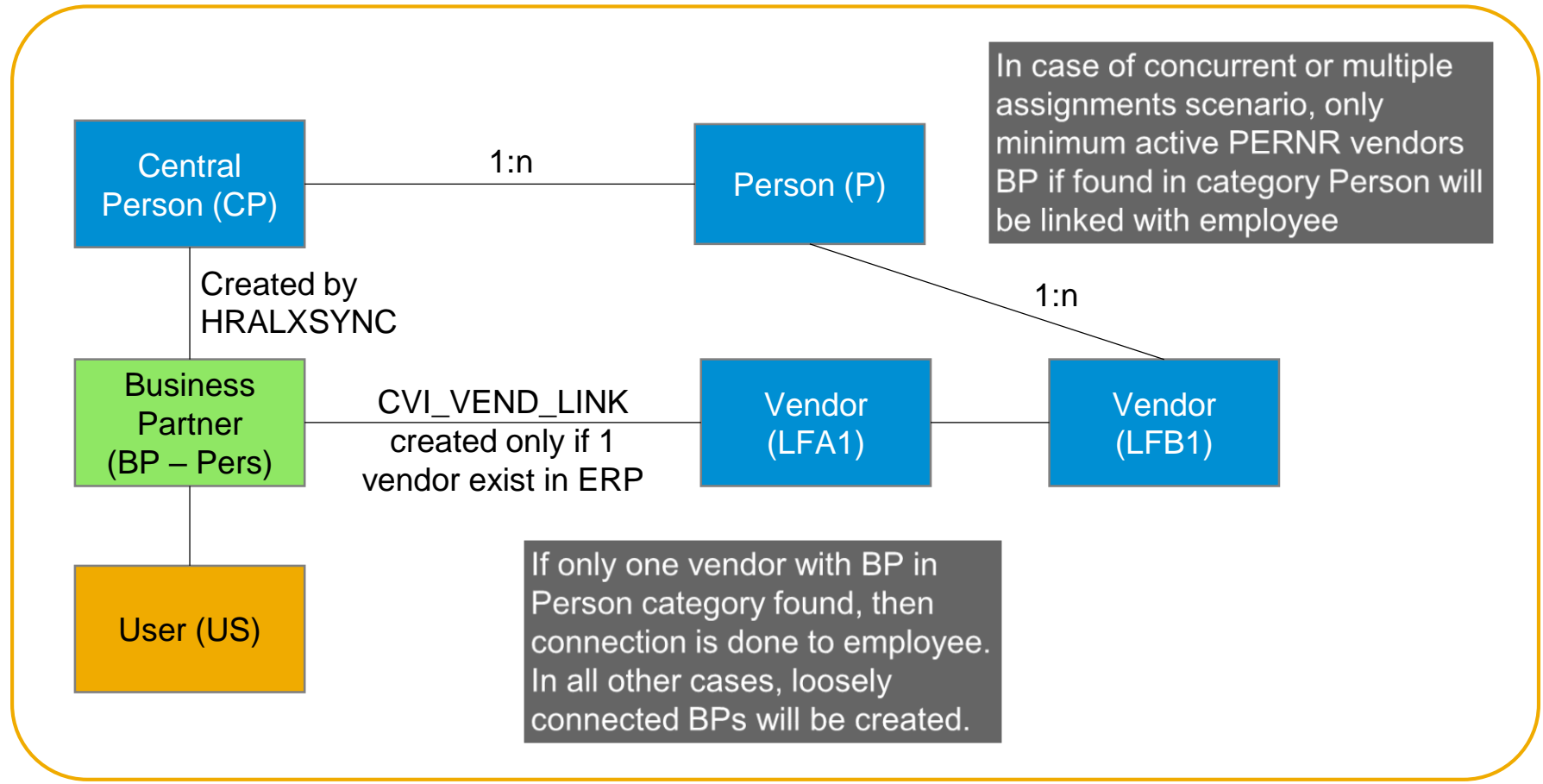
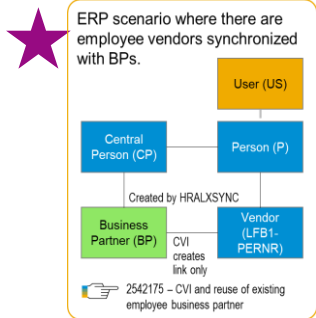
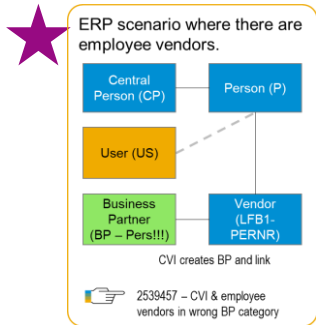
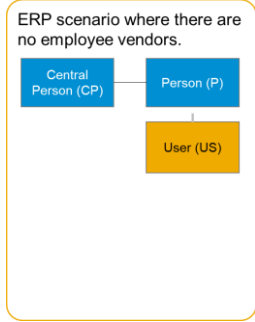
ERP scenario where there are employee vendors synchronized with BPs.



2542175 – CVI and reuse of existing employee business partner

# Synchronization of Employee Data into Business Partner

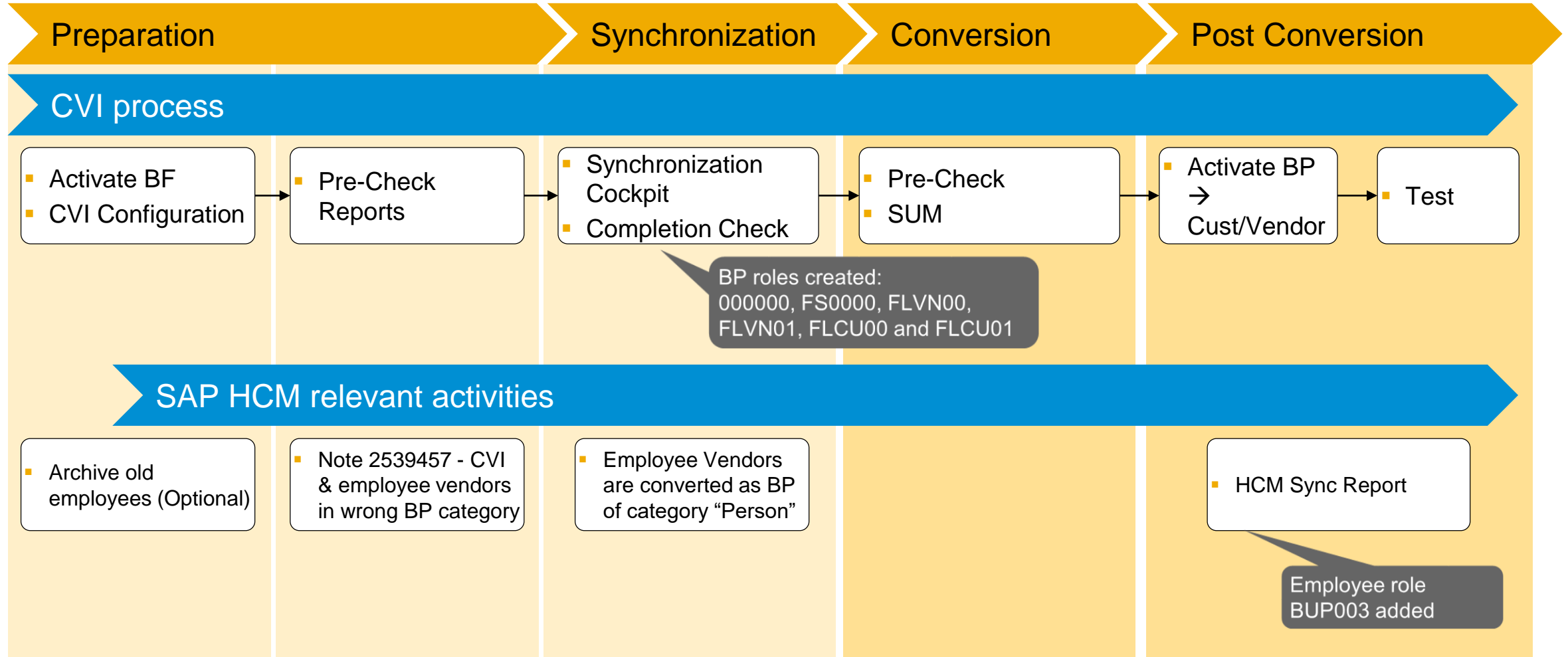
## Target design in SAP S/4HANA



★ Postprocessing synchronization of employee BP is relevant

# Synchronization of Employee Data into Business Partner

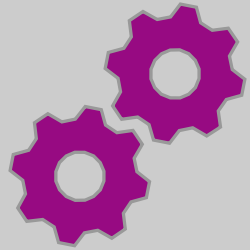
## The journey



# Synchronization of Employee Data into Business Partner

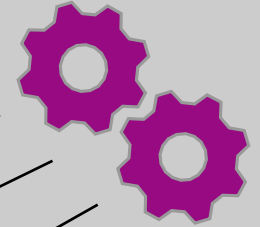
## The journey – Details

### Preparation in SAP ERP



CVI synchronization completed

SAP Notes: [2340095](#), [2265093](#)



Check MDS\_PPO2 for issues with BP to vendor sync

Schedule job for BUPA Synchronization Report (/SHCM/RH\_SYNC\_BUPA\_FROM\_EMPL) to sync employee data with the business partner

Sync employees with BPs with report /SHCM/RH\_SYNC\_BUPA\_EMPL\_SINGLE

- Sync all the initial records with this report
- To display all issues, use **SLG1** transaction

**Activities in SAP S/4HANA**

## Helpful hints

- Standard settings considers contact persons and employees under the same range number. If your business requirement is to have these individually, consider the following:
  - Set HRALX PNUMB to "2" and HRALX PSUBG must be assigned a business partner grouping code of 2 character length.

System Switch (from Table T7750)				
	Group	Sem. abbr.	Value abbr.	Description
	HRALX	PNUMB	2	Business Partner Number Assignment (Employee)
	HRALX	PQUAL		Import Qualifications
	HRALX	PSUBG	ZZ	Business Partner Subgroup (Employees)

- Run report MDS\_PPO2 to find issues when a employee is created as BP but sync with vendor fails

Tip: Use business process

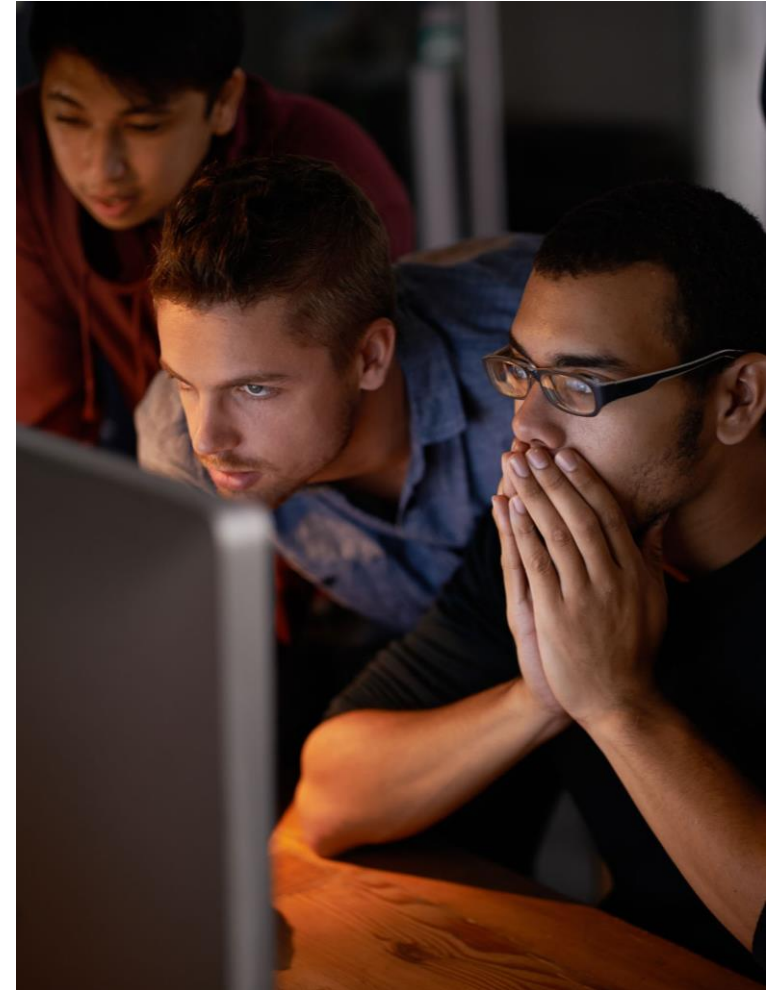
AP-MD CVI\_04 Business → Vendor

Postprocessing Desktop - Edit Order: Initial Screen																	
Execute <input type="button" value="Change Variant"/>																	
Variant Name <input type="text"/>																	
Selection Options																	
Business Process	<input type="text"/>																
Business Process ID	<input type="text"/>																
Order Status	<input type="text" value="1"/>																
Object Role	<input type="text"/>																
<div style="float: right;">Business Process (2) 13 Entries found</div> <div style="float: right;">Restrictions</div> <div style="clear: both;"></div> <table border="1"> <thead> <tr> <th>Software Component</th> <th>Process</th> <th>Business Process Description</th> </tr> </thead> <tbody> <tr> <td>AP-MD</td> <td>CVI_01</td> <td>Customer -&gt; Business Partner</td> </tr> <tr> <td>AP-MD</td> <td>CVI_02</td> <td>Vendor -&gt; Business Partner</td> </tr> <tr> <td>AP-MD</td> <td>CVI_03</td> <td>Business Partner -&gt; Customer</td> </tr> <tr style="background-color: #ffff00;"> <td>AP-MD</td> <td>CVI_04</td> <td>Business Partner -&gt; Vendor</td> </tr> </tbody> </table>			Software Component	Process	Business Process Description	AP-MD	CVI_01	Customer -> Business Partner	AP-MD	CVI_02	Vendor -> Business Partner	AP-MD	CVI_03	Business Partner -> Customer	AP-MD	CVI_04	Business Partner -> Vendor
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AP-MD	CVI_03	Business Partner -> Customer															
AP-MD	CVI_04	Business Partner -> Vendor															

## Synchronization of Employee Data into Business Partner

### Additional information

- **1834196** – BP Integration mapping of employee
- **2340095** – S4TWL – Conversion of Employees to Business Partners
- **2323301** – Customizing document – Synchronizing of BP for HCM employee
- **2406039** – Enablement of some fields for Employee BP in BP Tx in S4HANA system which are not part of HCM system
- **2409229** – Employee Synchronization Report FAQ
- **2570961** – Simplification item S4TWL – Business User Management
- **2542175** – CVI and reuse of existing employee business partner





# Thank you.

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