



Week 2: Converting Finance and Business Partner

Unit 1: Changes in the System Landscape

Changes in the System Landscape

SAP S/4HANA – High-level stack architecture

Logical view

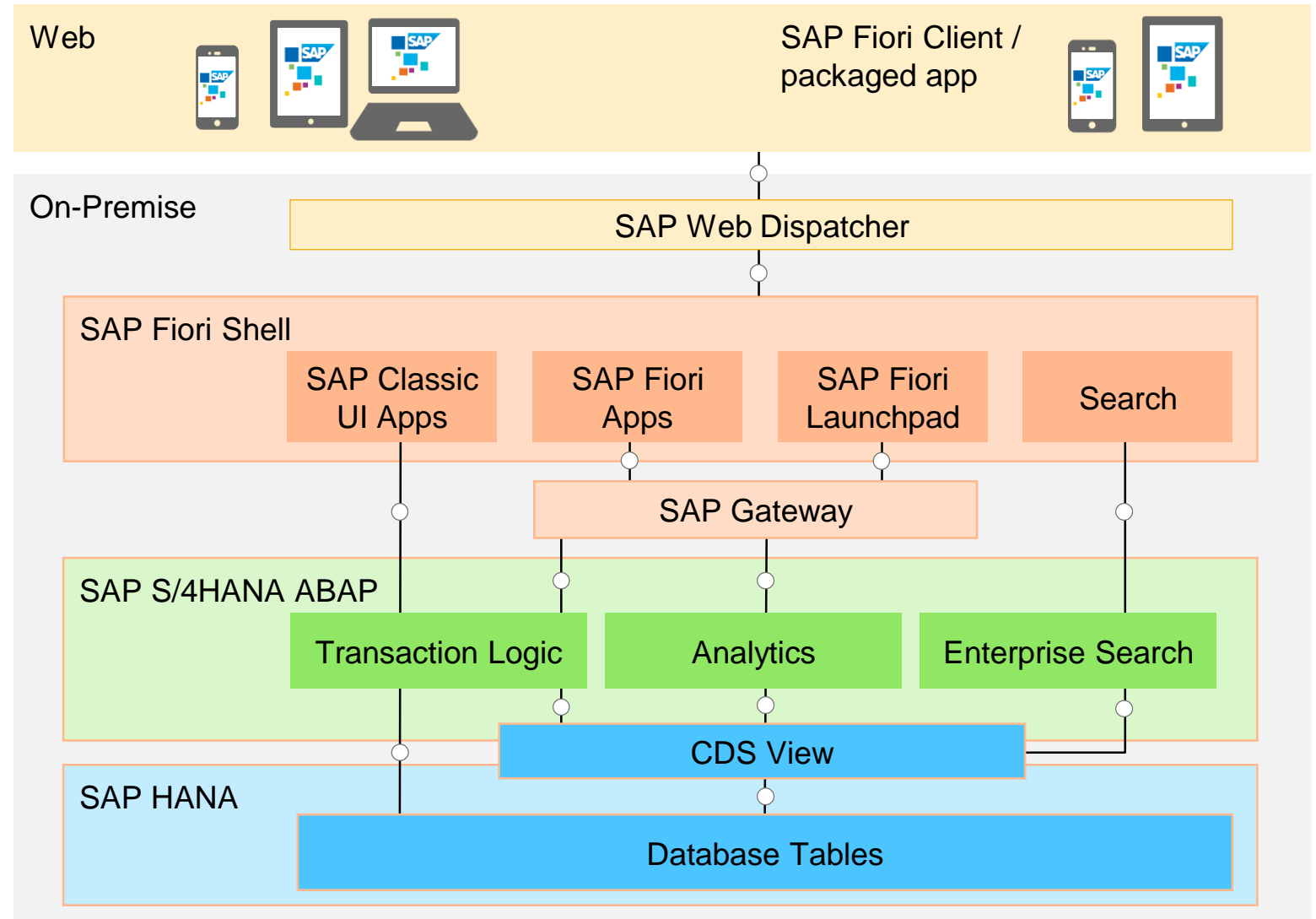
- **Launchpad / SAP Fiori**

(Classic UI apps consist of SAPGUI for HTML and ABAP Web Dynpro apps)

- **Application Engines**

- **Data Structures**

(Compatibility provided through Core Data Services)



Changes in the System Landscape

User experience for SAP S/4HANA – SAP Fiori design evolution

Me-Area

Replacing former shell header menu. Shows recent activities now

Anchor bar navigation

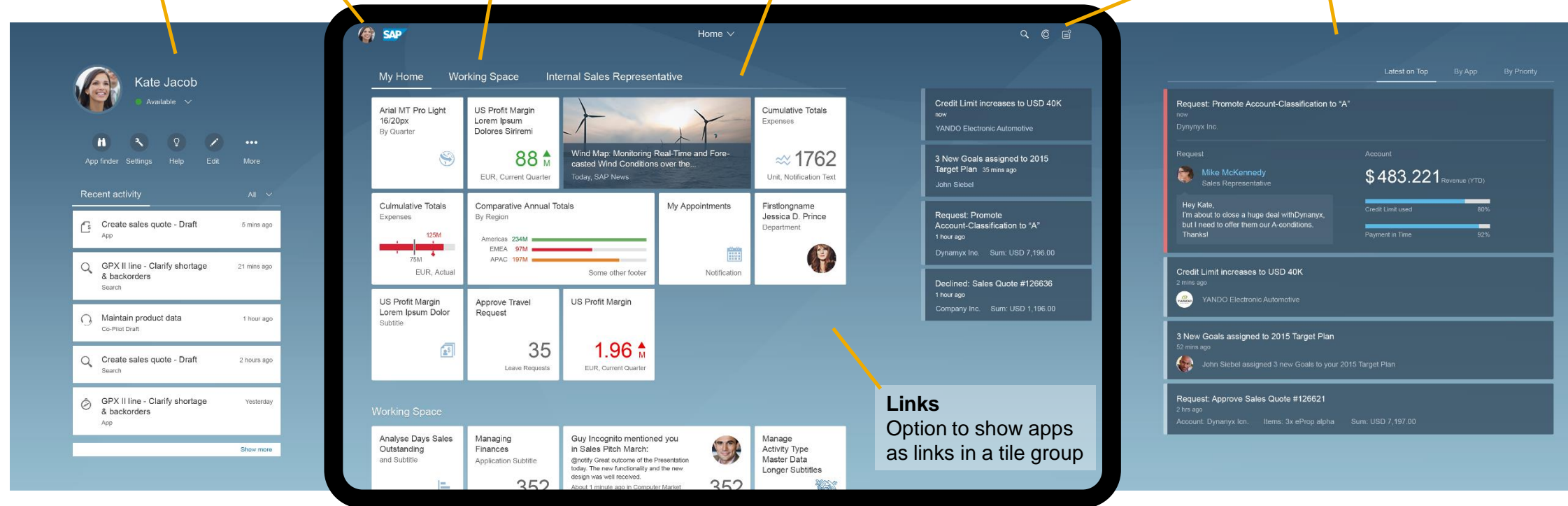
Replacing group menu

Shell header

Revised launching notification and Me-Area viewports and CoPilot window. Provides navigation menu when app is launched by clicking title

Notifications

Shown in separate viewport that opens on clicking respective icon in shell header



Me-Area

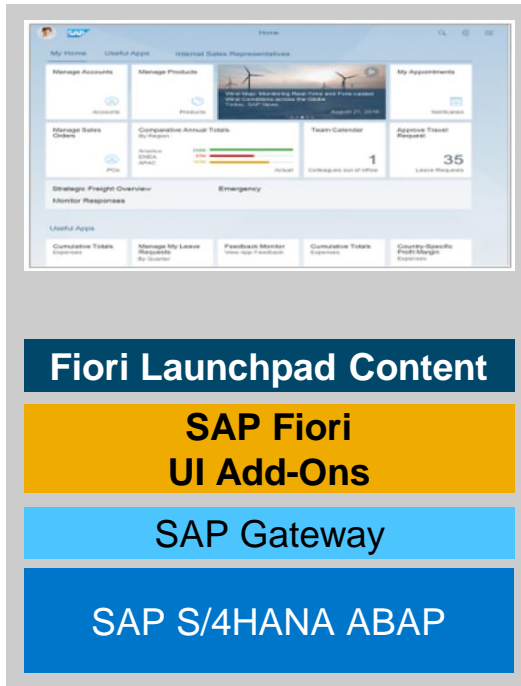
Workspace

Notifications

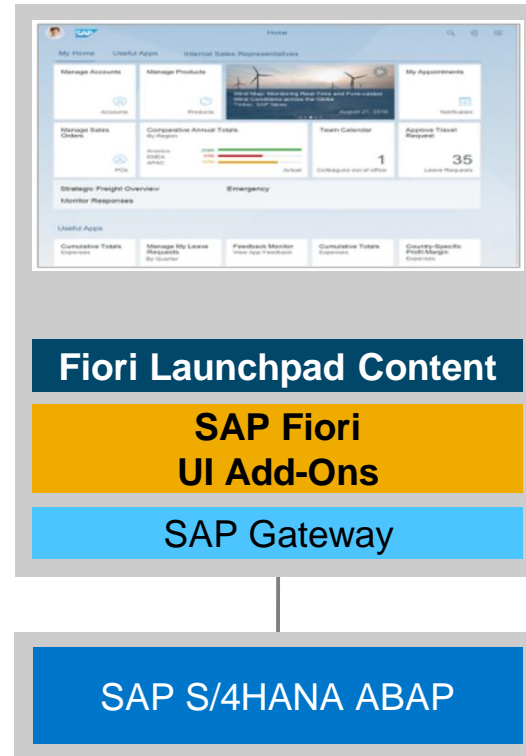
Changes in the System Landscape

SAP S/4HANA architecture and components – Front-end server deployment options

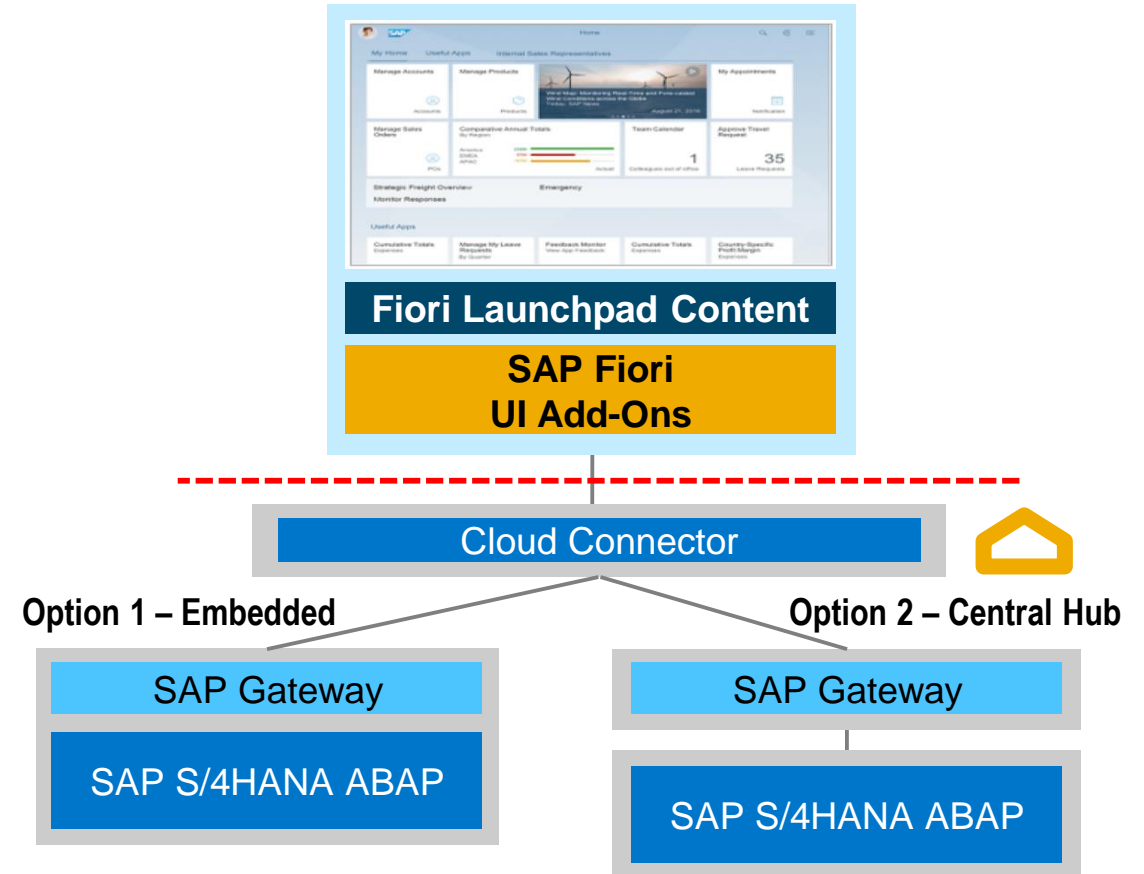
Embedded deployment of SAP Gateway



Central Hub deployment of SAP Gateway



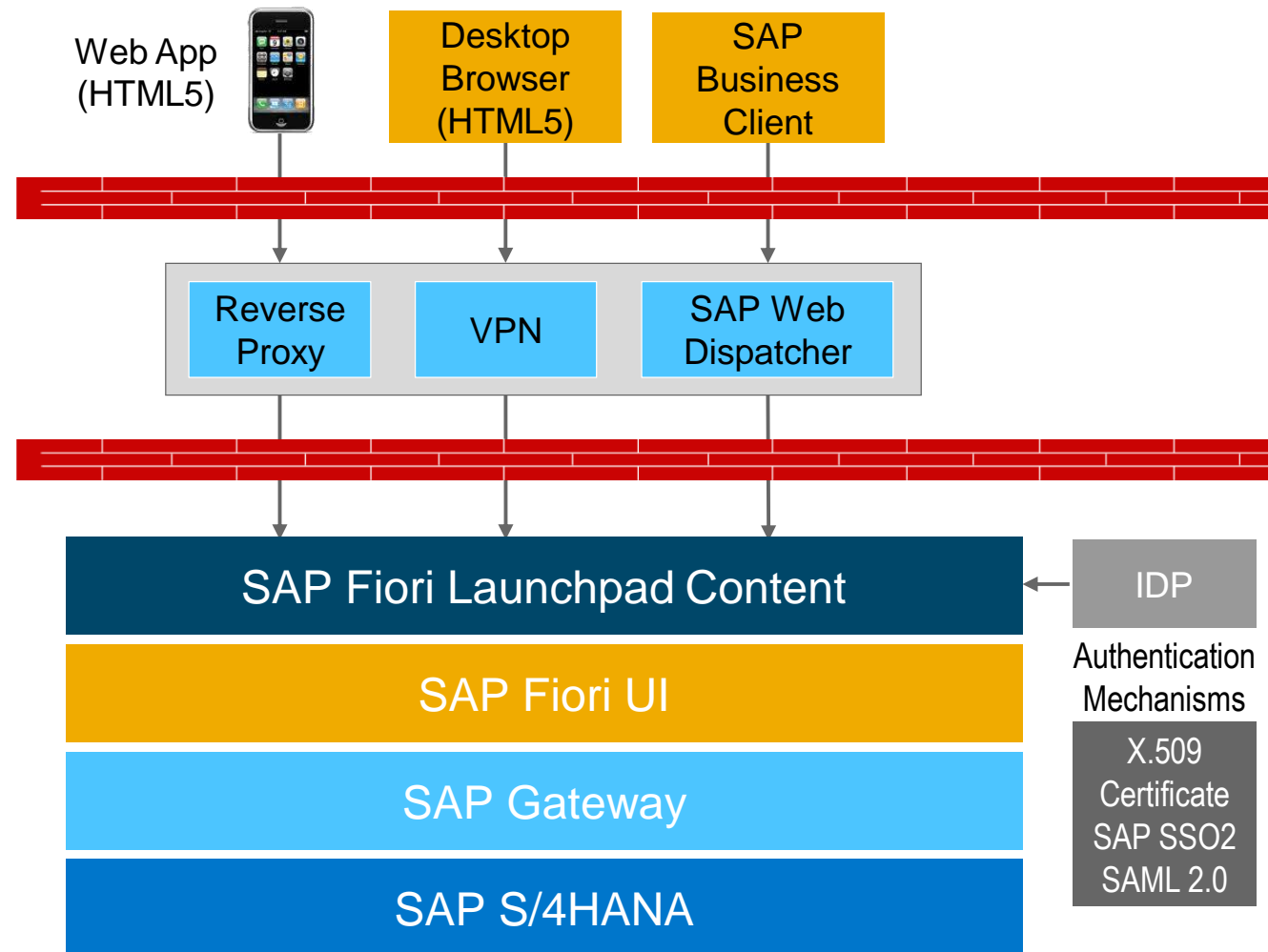
SAP Fiori Cloud deployment



Changes in the System Landscape

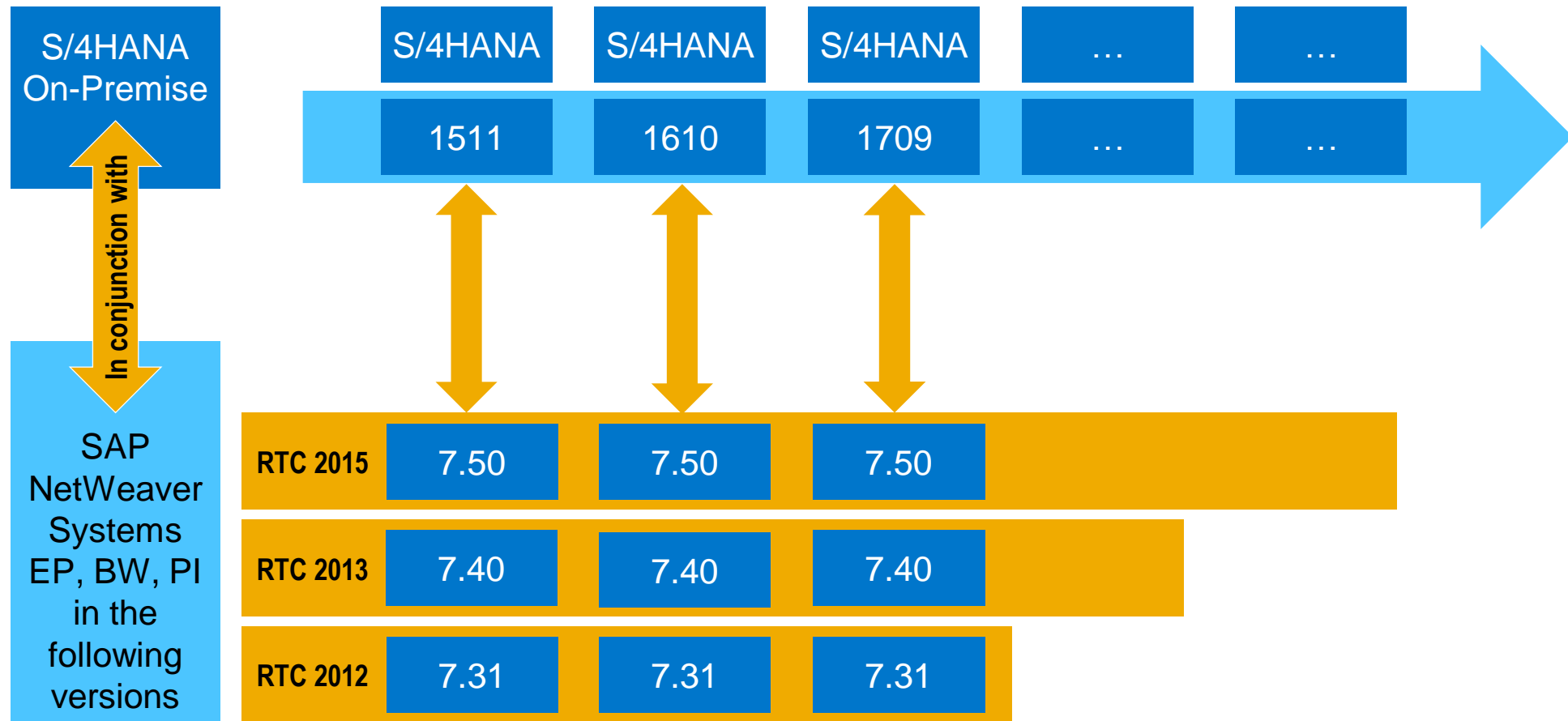
SAP S/4HANA – SAP Fiori access

- Client Access
- External Access Connectivity
- SAP S/4HANA 1709 Front-End and Back-End Authentication and Authorizations



Changes in the System Landscape

Version interoperability for SAP S/4HANA



SAP Note [2251604](#) Version Interoperability between SAP S/4HANA On-Premise Edition and SAP NetWeaver Systems

Changes in the System Landscape

Switch framework (always on / always off / customer switchable)

In SAP S/4HANA business functions can have the following status:

- always_on
- customer_switchable
- always_off

Start Release (SAP Business Suite)		Target Release (SAP S/4HANA 1709)			
Status	Status	Conversion	New Status	Remarks	
ON	always_off	NO	–	SAP Note 2240359	On roadmap
OFF	always_on	YES	ON	SAP Note 2240360	
ON	customer_switchable	YES	ON		
OFF	customer_switchable	YES	OFF		

Changes in the System Landscape

Output management for SAP S/4HANA

Business Applications

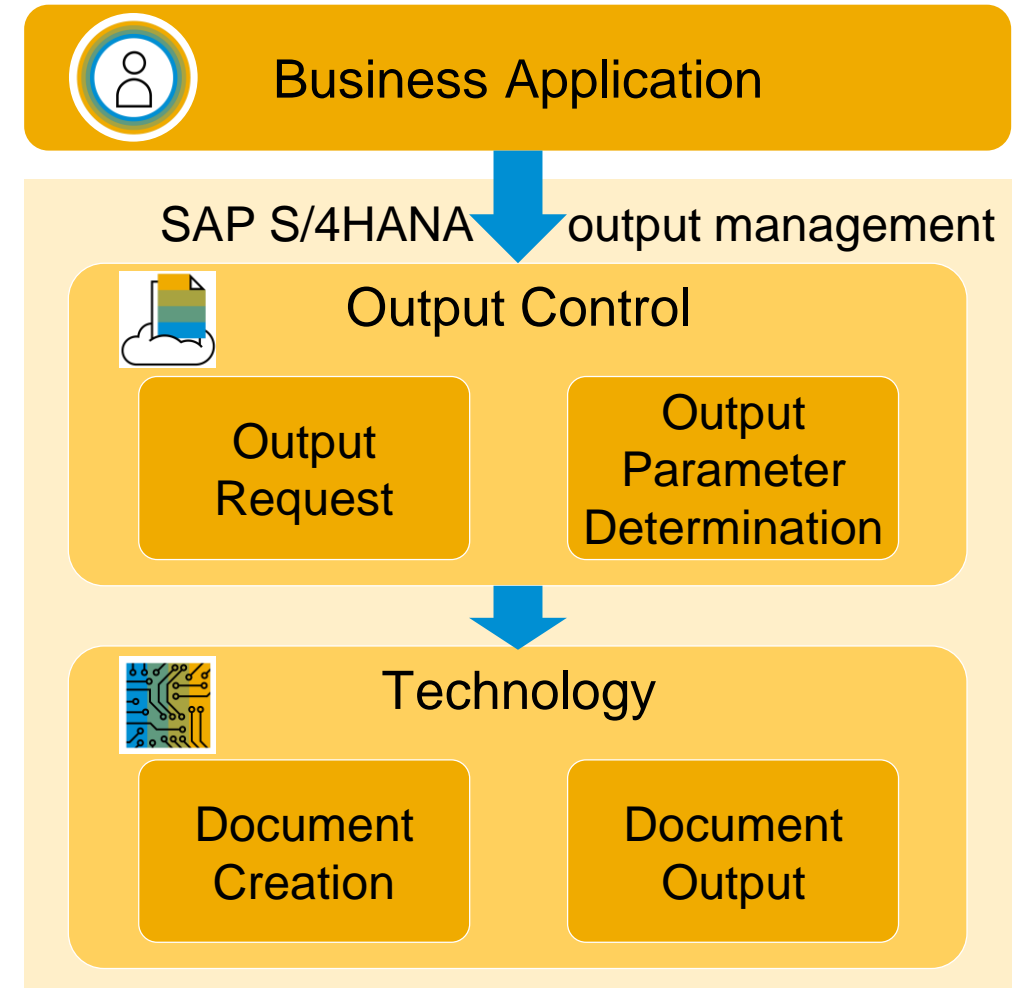
- Need a solution for all output-related tasks

Output Control

- Offers a unified solution (UI, configuration, processing)
- Exposes the low-level functionality to its consumers

Technology

- Document creation via Adobe Document Services
- Document output via print queue, SAPconnect, communication arrangement



Changes in the System Landscape

Miscellaneous changes for SAP S/4HANA

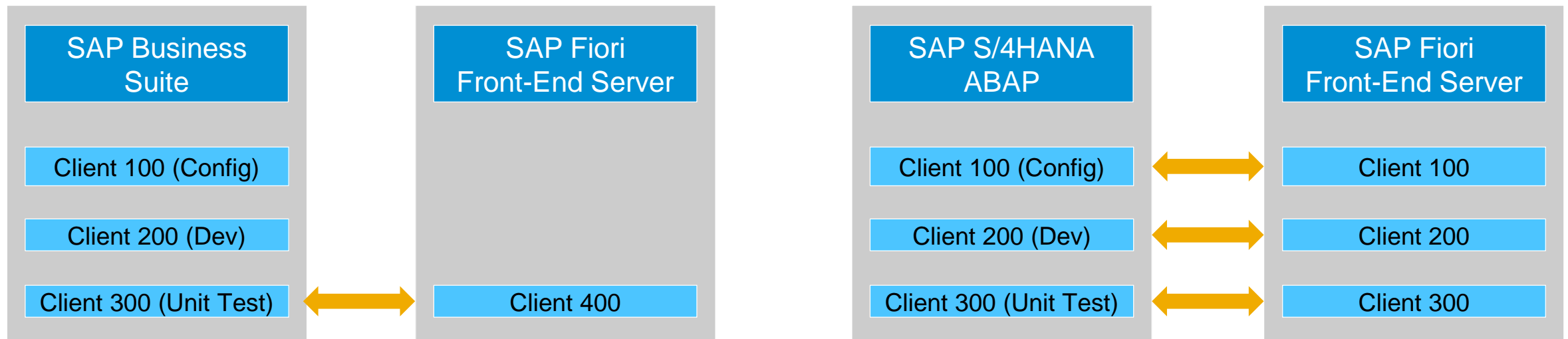
- Clients 001 and 066 are no longer required and not delivered (SAP Note 1749142)
- SAP Developer Keys (SSCR) are no longer required (SAP Note 2309060)
- SAP Best Practices client copy setup and configuration (SAP Note 2573352)



Changes in the System Landscape

SAP S/4HANA multi-client configuration for SAP Fiori

- One-to-one mapping per client on both front-end and back-end systems
- Use same client number on both front-end and back-end systems to avoid mapping client setting in Web dispatcher configuration



<https://blogs.sap.com/2016/10/11/configure-fiori-multi-clients/>

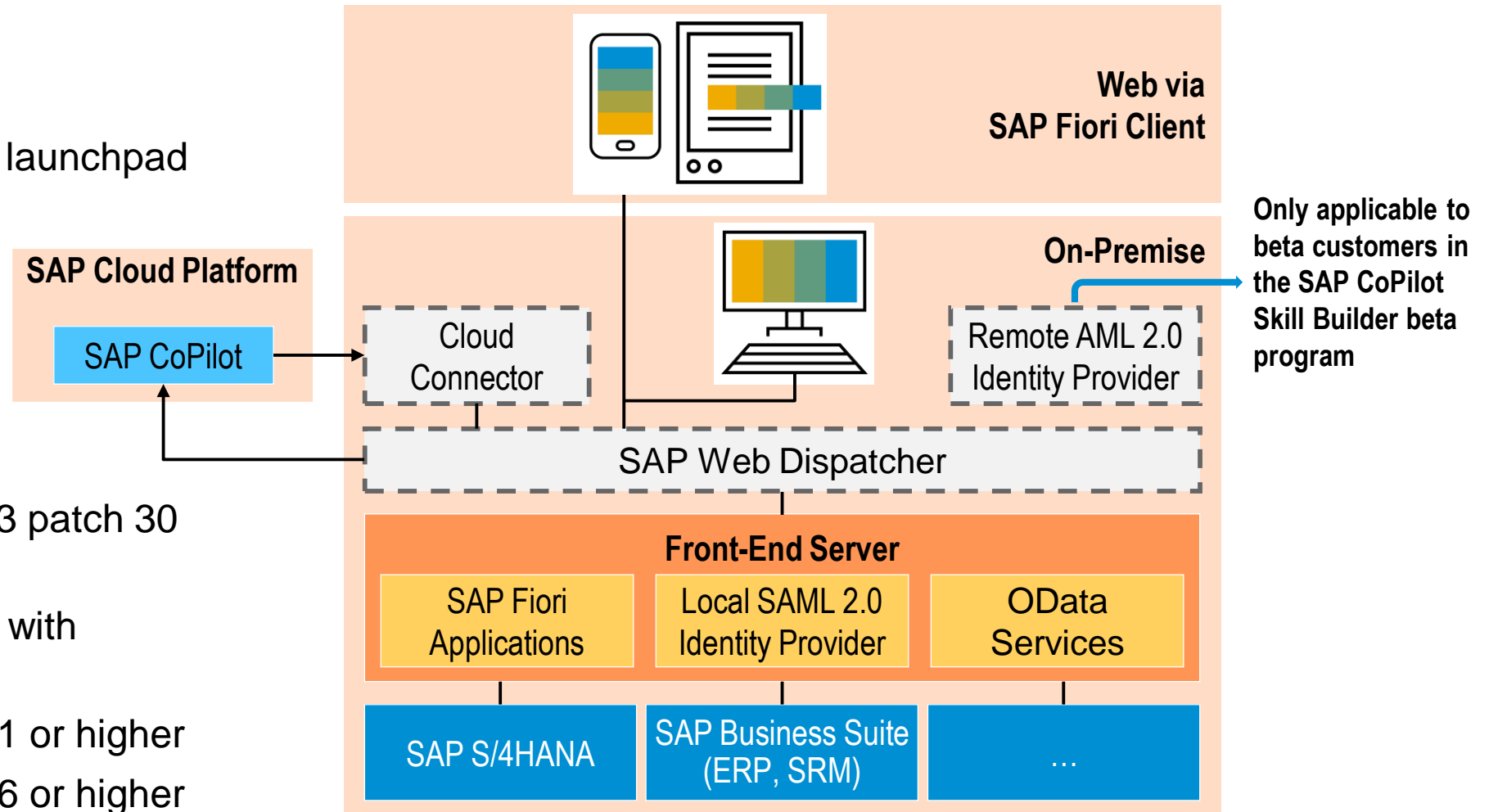
Changes in the System Landscape

SAP CoPilot architectural overview

Required Components

- SAP Cloud Platform
- Configured SAP Fiori 2.0 launchpad

- SAP Web Dispatcher 7.53 patch 30 or higher
- Cloud Connector 2.11.03 with Principal Propagation
- SAP NetWeaver 7.52 SP1 or higher
- SAP NetWeaver 7.51 SP6 or higher



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Week 2: Converting Finance and Business Partner

Unit 2: Essential Changes in Finance

Essential Changes in Finance

Introduction

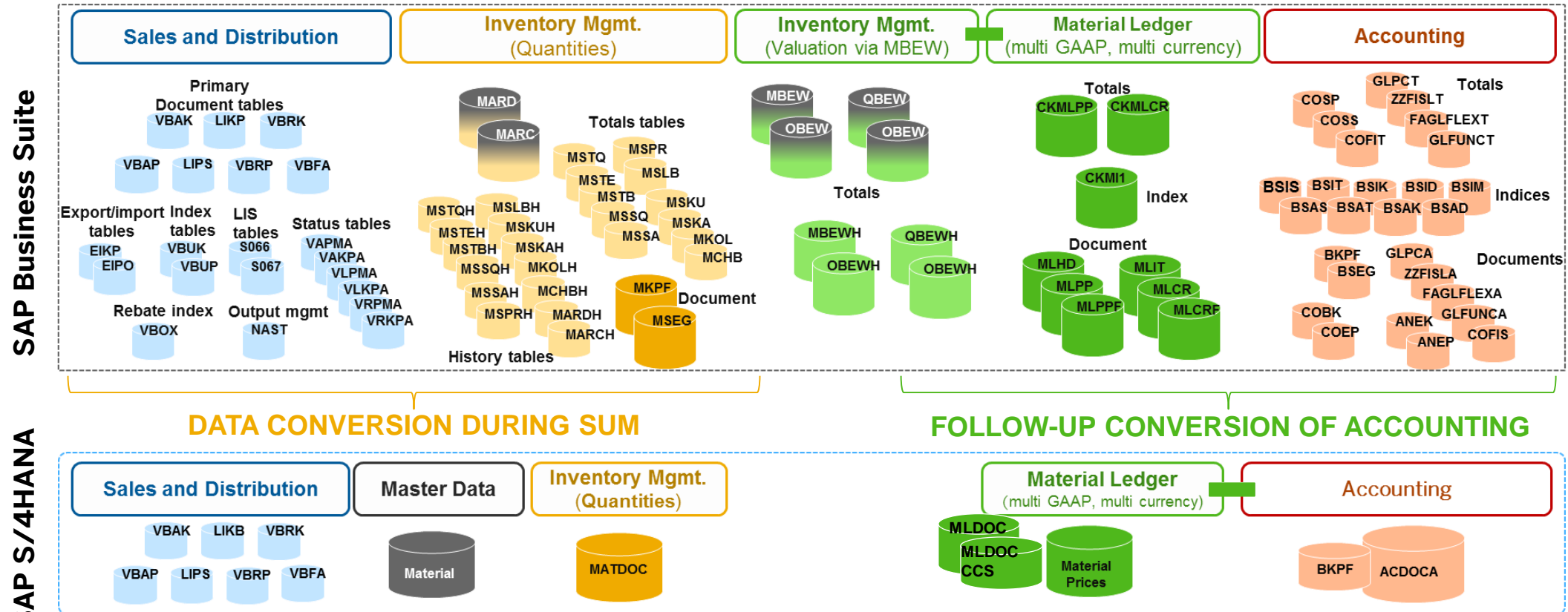
“You should know the main changes in Finance before you start system conversion!”

- A conversion to SAP S/4HANA is not only a technical upgrade. It includes functional changes.
- No system is impacted by all simplifications. Experience shows approx. 30-40 items are relevant.
- Consider the top simplifications in your project plan and plan in enough time for business to discuss them.
- Few items incur bigger impact, but might imply significant changes to business processes.
- Many items can and should be addressed in an early phase of a conversion project.

SAP S/4HANA Simplification Item Catalog <https://launchpad.support.sap.com/#/sic/> and simplification list as PDF <https://help.sap.com/s4hana>

Essential Changes in Finance

New data architecture: simplified data model in SAP S/4HANA



SIMPLE DATA MODEL

- Only main tables remain
- No redundancies, no aggregates, no indices
- Real-time integration, automatically reconciled

PRINCIPLE OF ONE

- One universal journal in Finance
- Only one material valuation application: material ledger
- Important for a conversion: consistent data

Essential Changes in Finance

The new finance architecture in SAP S/4HANA: universal journal – Impacts for a conversion

G/L Customizing (Ledgers)

Currency configuration
migrated without changes

General Ledger							
Ledger	Company	Account	Profit Center	Amount 1	Amount 2	Amount 3	...

Profitability		
Operating Concern	Market Segment	...

Account-based CO-PA
in universal journal

Subsequent
Introduction:

- Additional Ledgers
- Document Splitting

Universal Journal												Append
Ledger	Company	Account/ Cost Element	Balancing Profit Center	Amount 1	Amount 2	Amount 3	Fixed Asset	Coding Block	Market Segment	Material	Customer Fields ...	SAP Note 2160045

FI-documents for CO
Secondary cost elements
are G/L accounts

Management Accounting					
Controlling Area	Cost Element	Amount 1	Amount 2	Coding Block	...

Asset Accounting		
Company	Fixed Asset	...

Material Ledger		
Company	Material	...

Material ledger for
material valuation

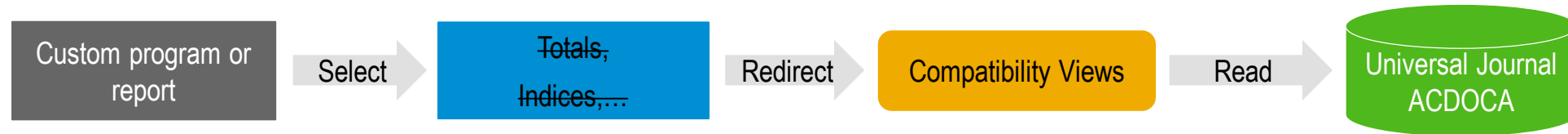
New Asset Accounting

One line item table with full detail for all applications – for instant insight & easy extensibility
Data stored only once: no more reconciliation needed – by design

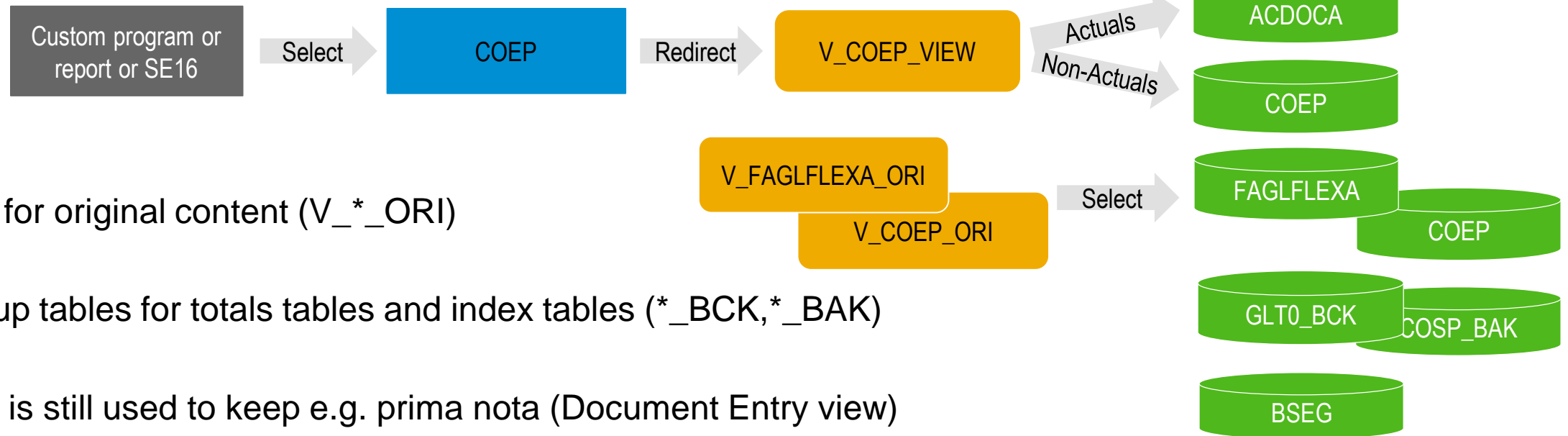
Essential Changes in Finance

Compatibility views for non-disruptiveness

- Read access from custom ABAP programs or reports to prior tables will work as before:*



- Non-actuals are still stored in COEP and COS*_BAK:



- Views for original content (V*_ORI)

- Back-up tables for totals tables and index tables (*_BCK,*_BAK)

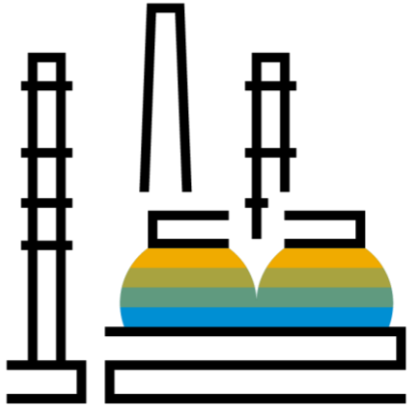
- BSEG is still used to keep e.g. prima nota (Document Entry view)

SAP Note 2408083 – FAQ: Data Model of S/4HANA Finance Data Migration

*check limitations e.g. in material ledger for actual costing

Essential Changes in Finance

Material ledger and new asset accounting



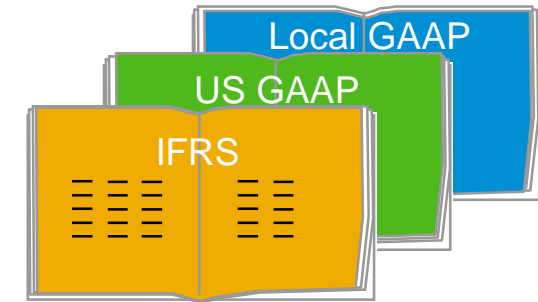
Material Ledger

- Mandatory for valuated stock
- Up to 3 parallel currencies
- Prices and stock values are automatically translated into parallel currencies
- Activation and migration during conversion
- SAP Note 2352383 and 2332591



Actual Costing in Material Ledger

- Optional
- Fundamental changes in actual costing
- Redesign of costing steps at period end
- Migration during conversion
- SAP Note 2354768



New Asset Accounting

- Mandatory
- Available in SAP ERP 6.0 EHP 7
- Accounts or ledger approach
- Simplified chart of depreciation
- Activation and migration during conversion
- SAP Note 2270388 and 2368280

Essential Changes in Finance

Credit management, cash management, and trade finance



SAP Credit Management (FSCM)

- Credit management FI-AR not available
- Migration to SAP Credit Management FIN-FSCM-CR during migration
- Basic version available
- SAP Note 2270544



New SAP Cash Management

- Classic cash management not available
- Bank Account Management Lite available
- Migration of house bank accounts during conversion
- Activation of new cash management after conversion
- SAP Note 2270400 and 2165520



Trade Finance

- SD Foreign Trade not available
- Letter of credit available in trade finance in Treasury and Risk Management (TRM)
- Integrated with SAP S/4HANA Sales
- Migration during conversion
- SAP Note 2267310

Essential Changes in Finance

Real estate, revenue accounting, and business partners



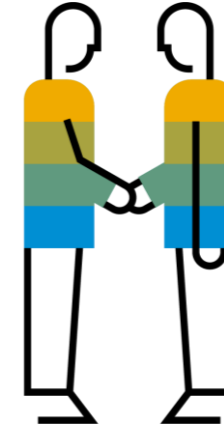
Flexible Real Estate Management

- Classic Real Estate not available
- Migration from classic Real Estate to flexible Real Estate Management (RE-FX) before conversion
- Not a simple technical conversion
- SAP Note 2270550



Revenue Accounting and Reporting

- Revenue recognition in SD not available
- Required for Accounting Standard IFRS15
- SAP Revenue Accounting and Reporting (RAR) add-on in ERP and SAP S/4HANA
- Migration before conversion
- SAP Note 2267342



Business Partners

- Customer/vendor integration mandatory
- Migration before conversion

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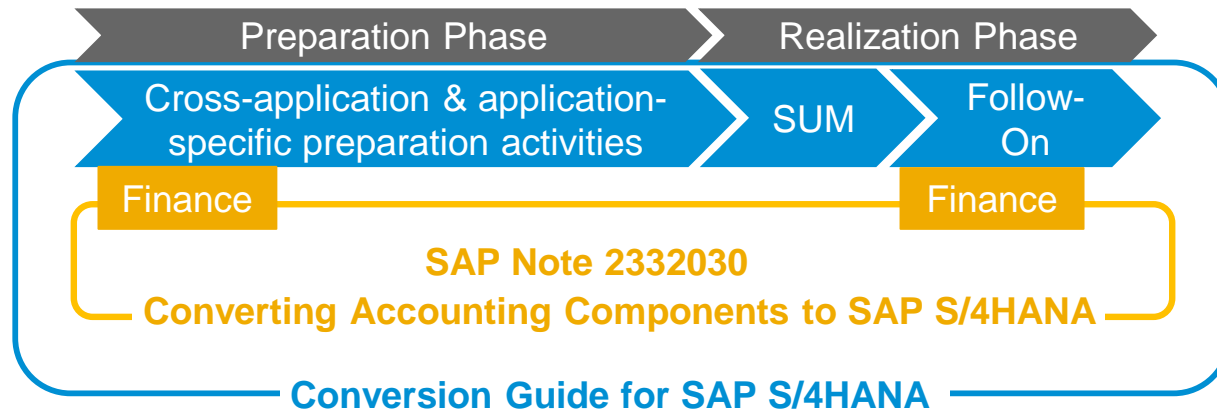


Week 2: Converting Finance and Business Partner

Unit 3: Conversion of Accounting – Overview and Preparation Phase

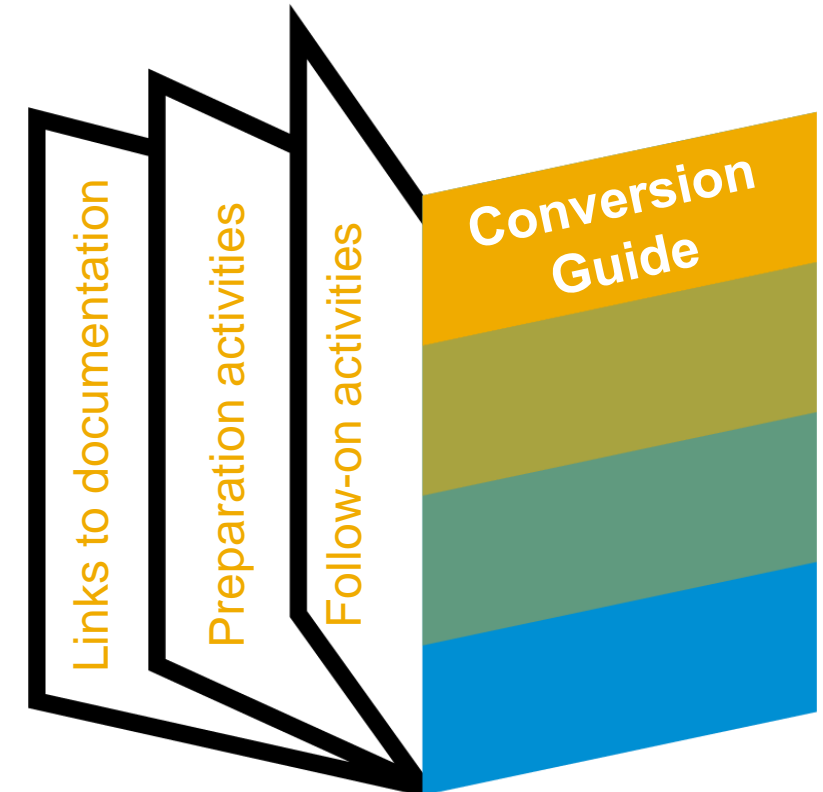
Conversion of Accounting – Overview and Preparation Phase

Conversion guides for SAP S/4HANA



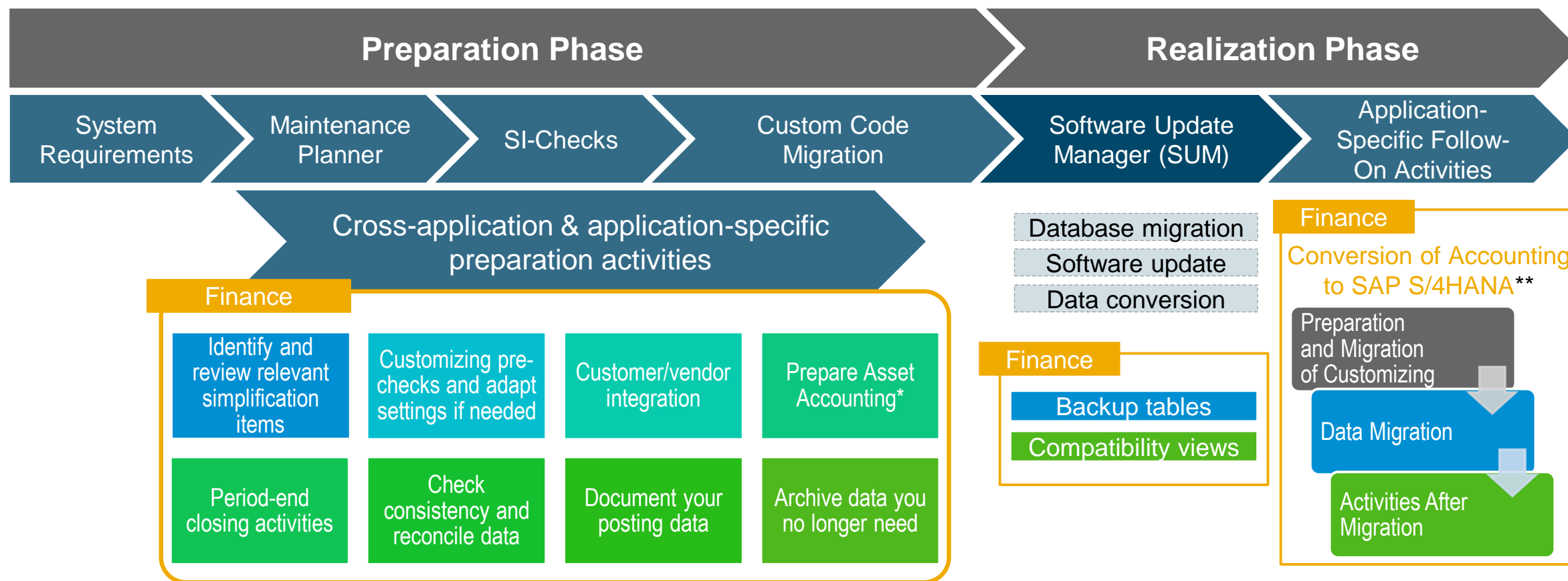
Conversion Guides

- Conversion Guide for SAP S/4HANA on SAP Help
- Converting Accounting Components to SAP S/4HANA
- SAP Credit Management
- SAP Cash Management
- Migrating to New Asset Accounting (FI-AA (New)) on SAP Help



Conversion of Accounting – Overview and Preparation Phase

Overview of activities in finance and in the preparation phase

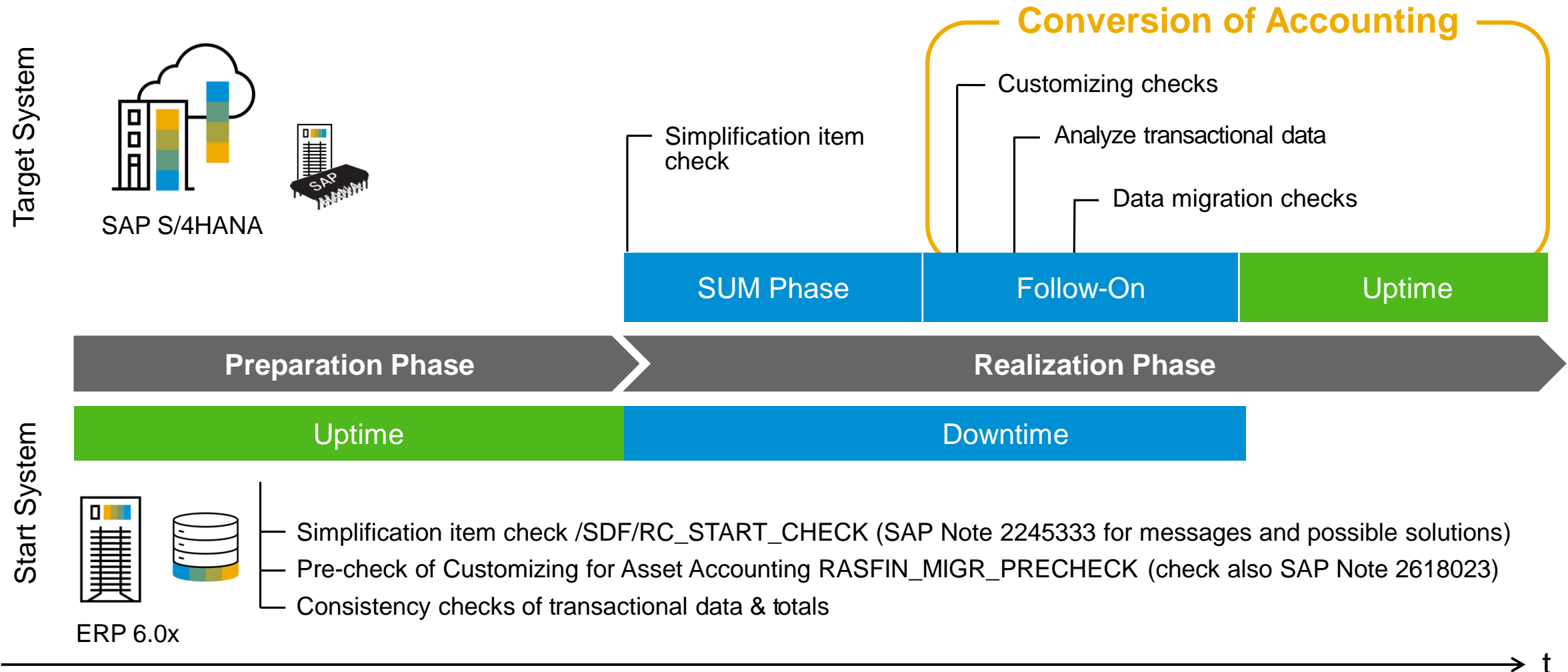


*Enterprise Extension EA-FIN: SAP Notes 965032 and 1121965
Alternative fiscal year variant for parallel valuation: SAP Note 2220152

**aka Finance Migration (named Migration to SAP S/4HANA Finance before SPS3 of SAP S/4HANA 1610)

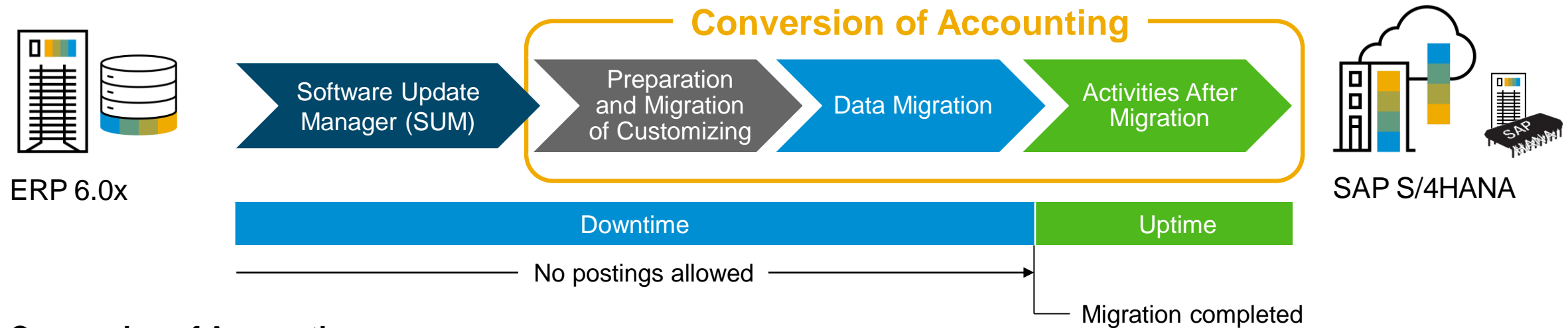
Conversion of Accounting – Overview and Preparation Phase

Consistency checks



Conversion of Accounting – Overview and Preparation Phase

Overview: 3 phases of accounting conversion

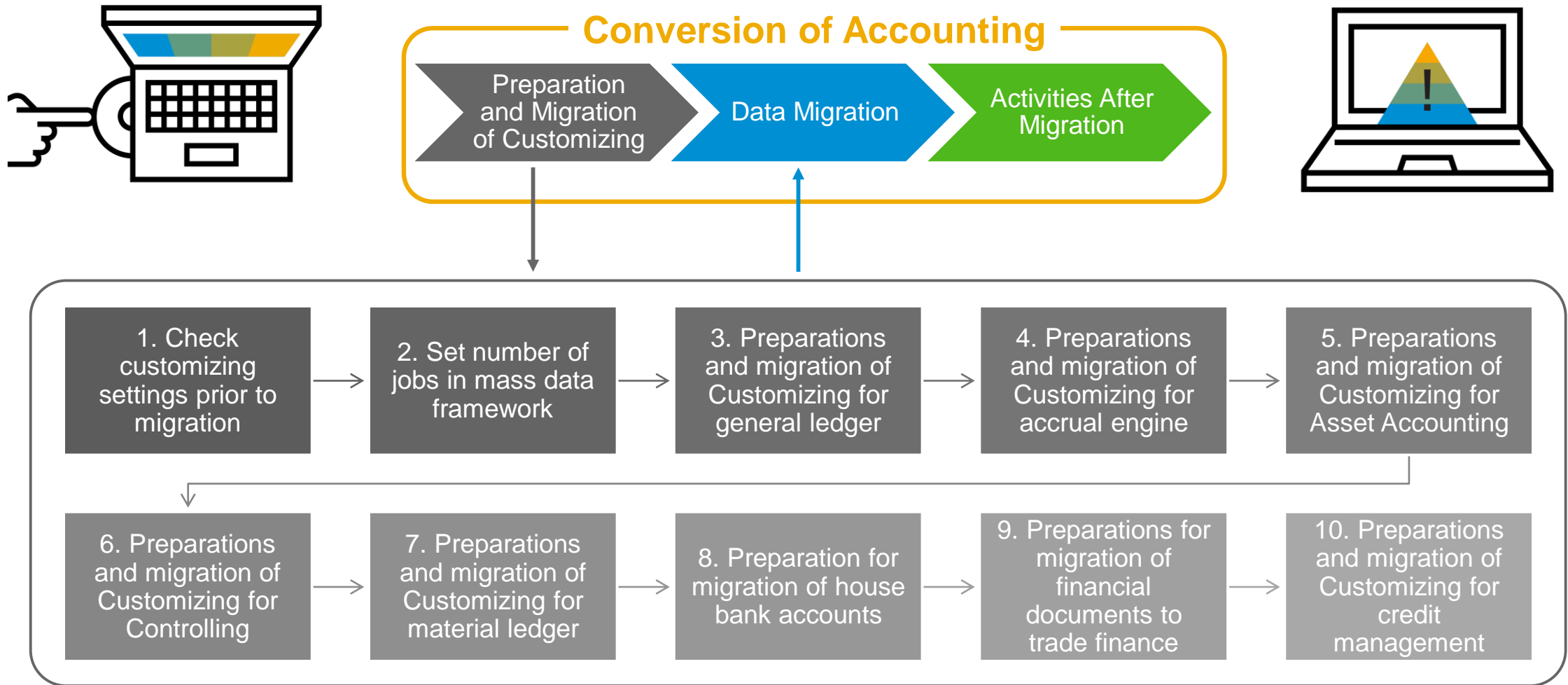


Conversion of Accounting

- All the migration activities and documentation in the IMG
- Perform activities in the right sequence
- Do not skip any Customizing activities
- Finance migration has to be executed for each client
- All company codes are migrated (SAP Note 2522155 for Company Code Specific Conversion with SAP LT)
- Mark company codes as template to disable checks with FINSC_CO_CD_TEMPLATE: SAP Note 2159452
- Conversion from start release SAP Simple Finance, SAP S/4HANA Finance, or SAP S/4HANA 1511: SAP Note 2450377

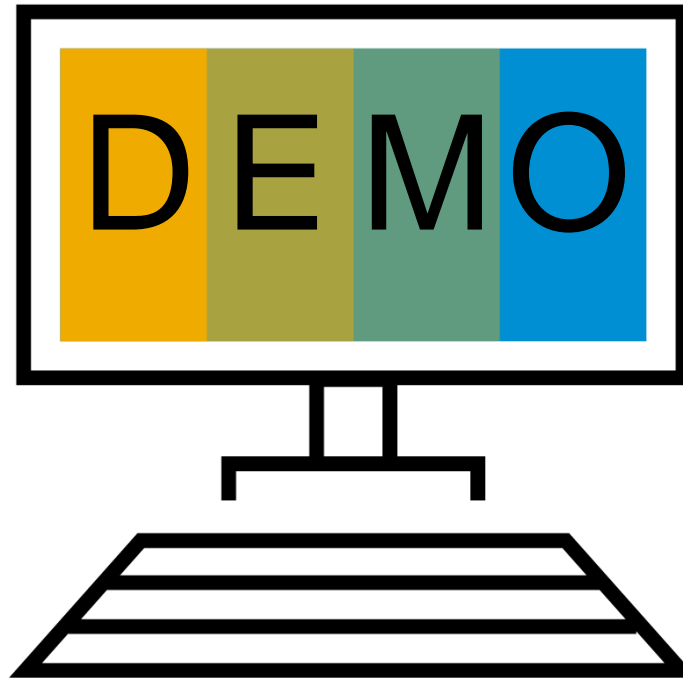
Conversion of Accounting – Overview and Preparation Phase

Preparation and migration of Customizing: 10 steps



Conversion of Accounting – Overview and Preparation Phase

DEMO – Preparations and migration of Customizing



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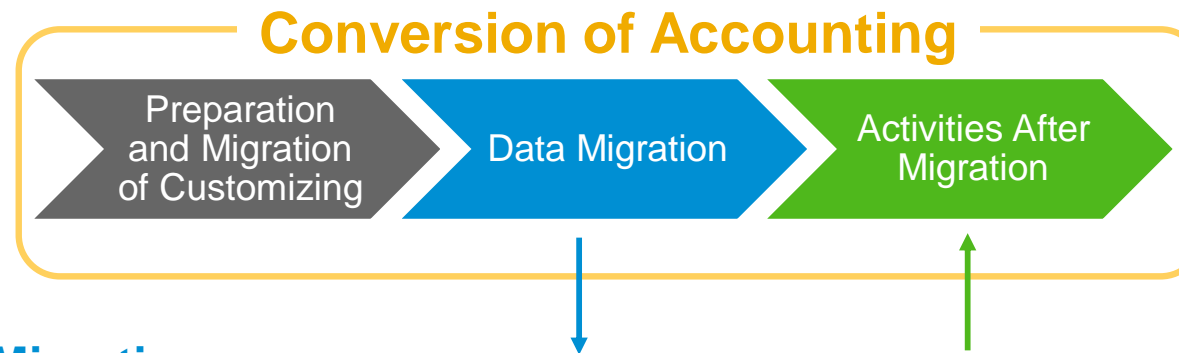
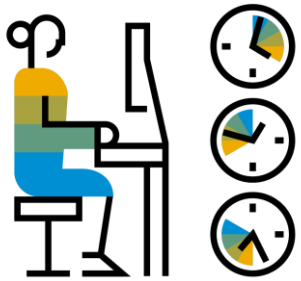


Week 2: Converting Finance and Business Partner

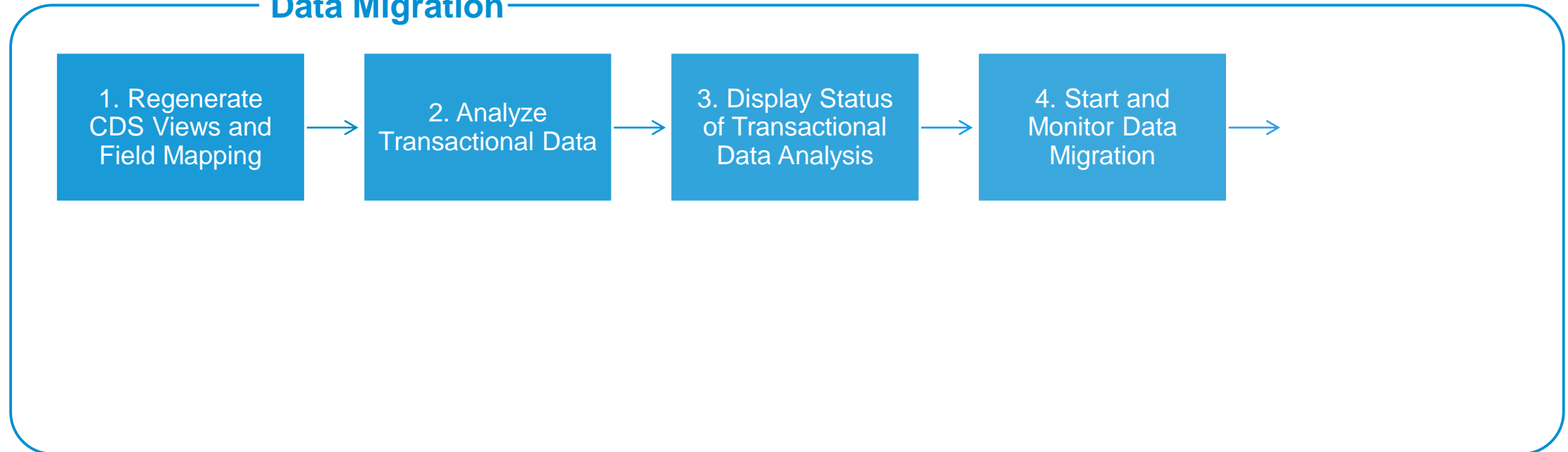
Unit 4: Conversion of Accounting – Realization Phase

Conversion of Accounting – Realization Phase

Data migration steps 1 to 4



Data Migration



Conversion of Accounting – Realization Phase

Data migration monitor



Start and Monitor Migration

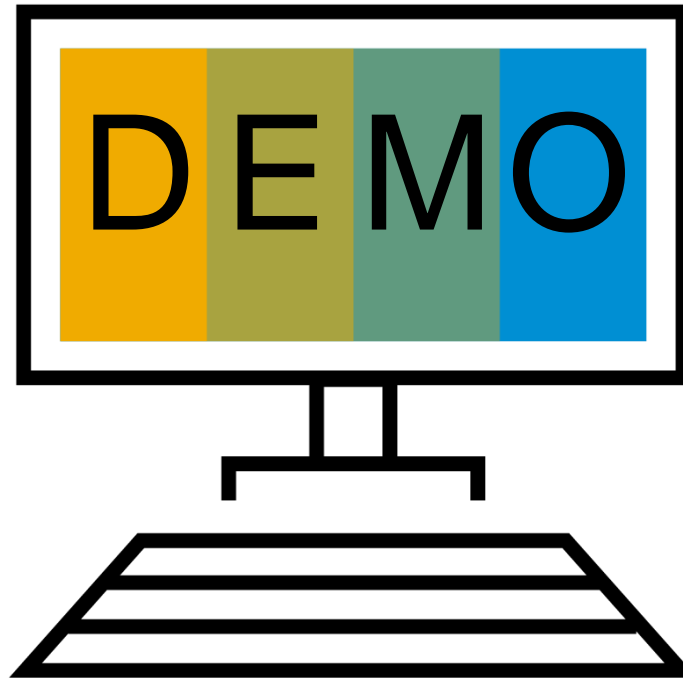
- Main transaction for data migration
- Executes the data migration
- Ensures the right sequence of migration activities
- Overview of all performed migration runs
- Repeats and resets migration activities

Data Migration Monitor FINS_MIG_STATUS

GCC Check Consistency of G/L Accounts and Cost Elements
↓
GCM G/L Account and Cost Element Merge
↓
DAA Default Assignment for Cost Elements
↓
R21 Reconcile Transactional Data
↓
ENR Enrich Transactional Data
↓
R22 Check Enrichment of Transactional Data
↓
MUJ Data Migration into Unified Journal: Line Items
↓
R23 Check Migration of Journal Entry
↓
M10 Migrate Material Ledger
↓
M20 Check ML Master Data
↓
M11 Migrate ML Order History
↓
M21 Check ML Production Order & Purchase History
↓
DLT Data Migration ACDOCA – Deltas
↓
R24 Check Migration of Balances
↓
AFA Initial Depreciation Calculation
↓
R25 Check Initial Depreciation

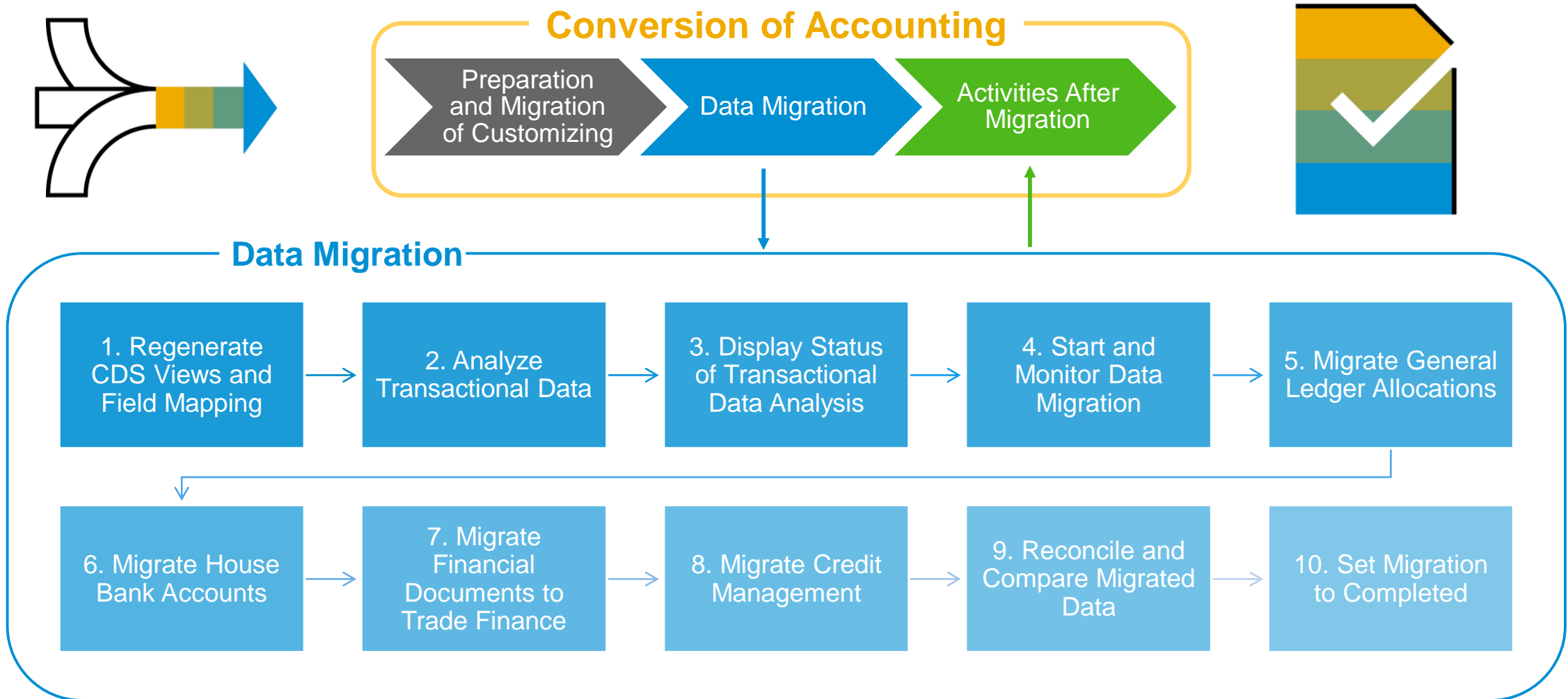
Conversion of Accounting – Realization Phase

DEMO – Start data migration



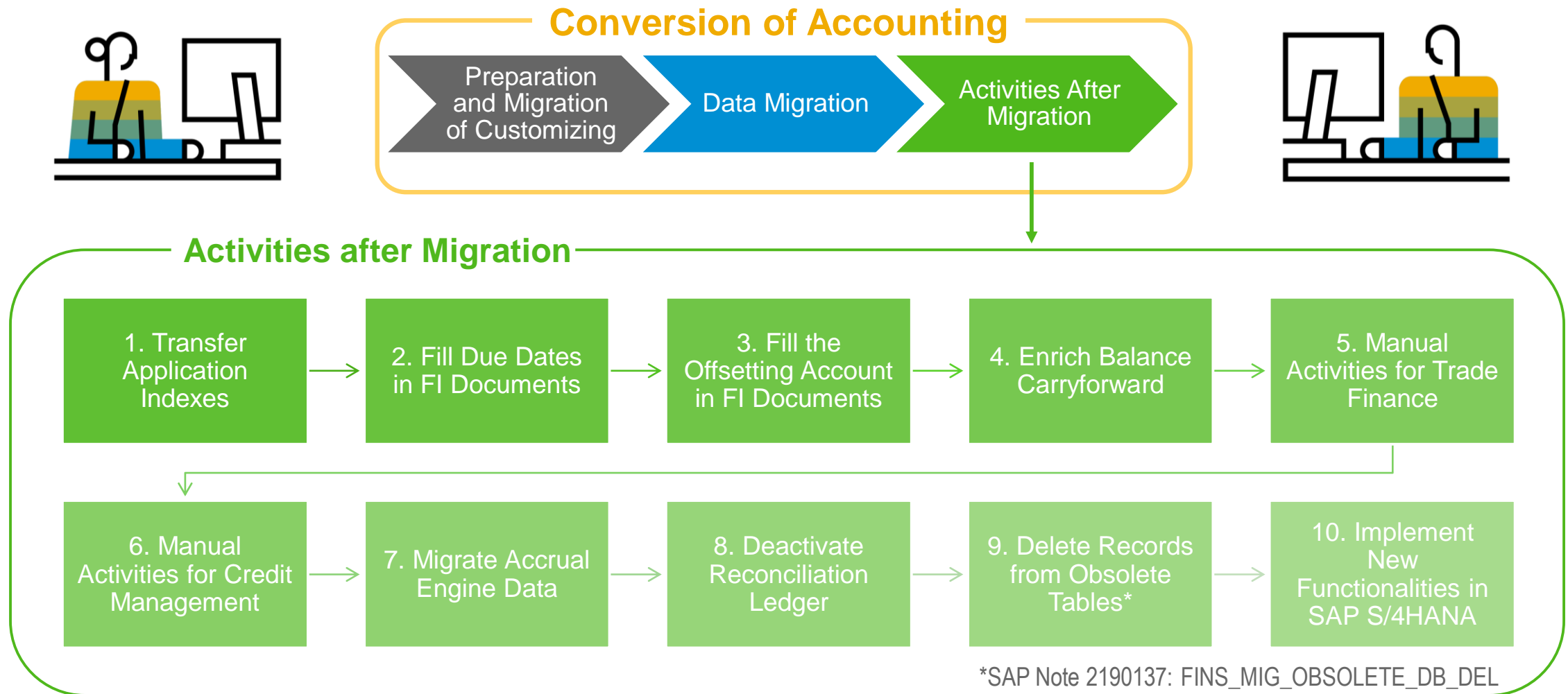
Conversion of Accounting – Realization Phase

Data migration steps 5 to 10



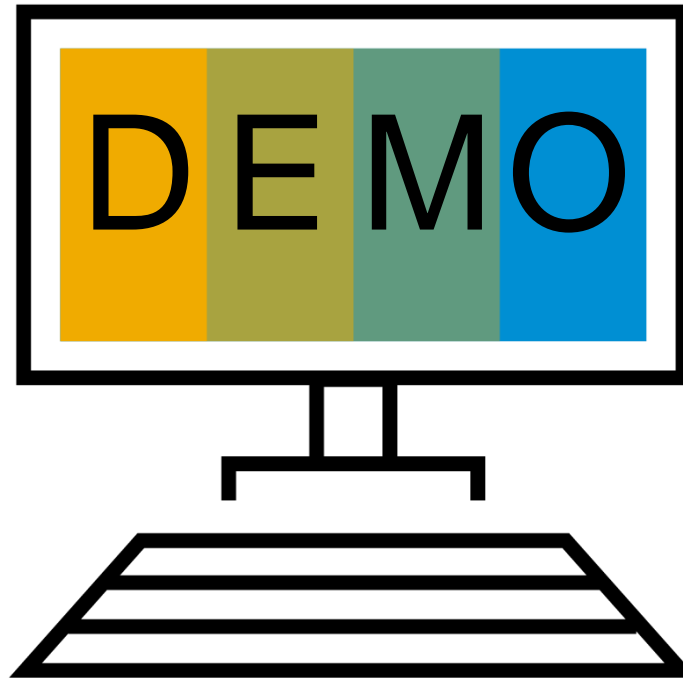
Conversion of Accounting – Realization Phase

Activities after data migration



Conversion of Accounting – Realization Phase

DEMO – Complete data migration



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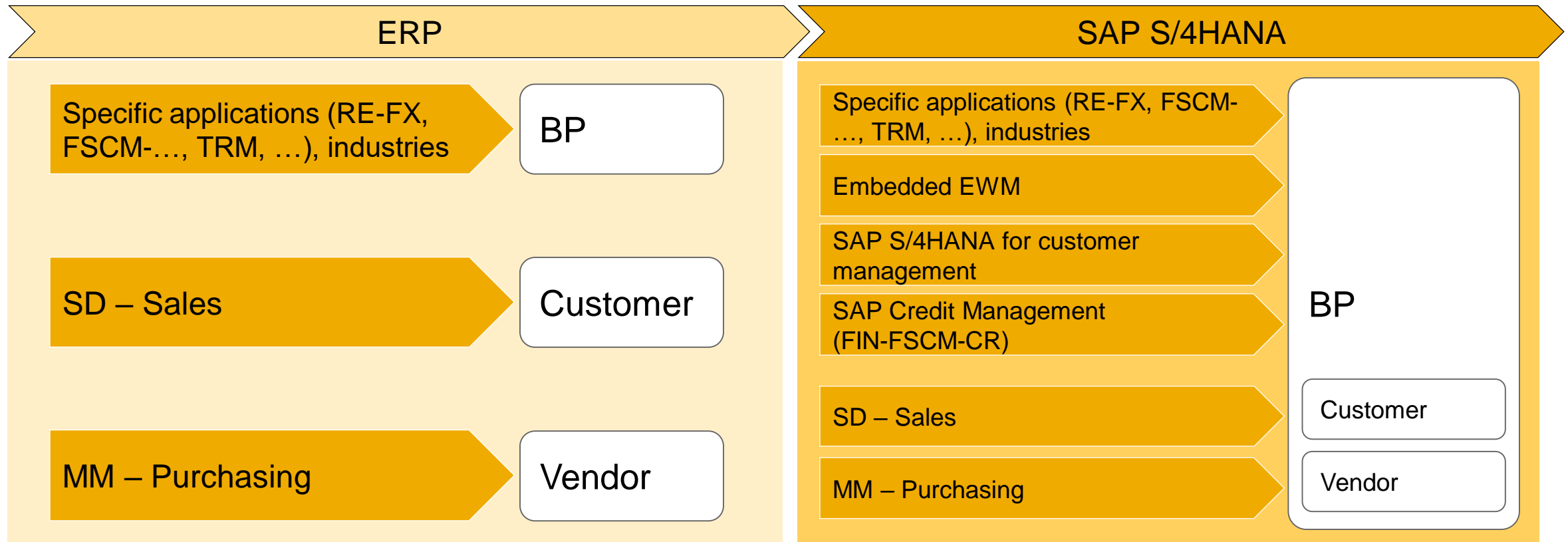
Week 2: Converting Finance and Business Partner

Unit 5: Data Model for Business Partner

Data Model for Business Partner

New data model – Motivation

→ In SAP S/4HANA, Business Partner is the leading object and single entry point to maintain business partner, customer and supplier master data. ←



Data Model for Business Partner

New data model – Categories



Natural Person

- Private Person
- Personal Data
 - First Name/Last Name, Academic Title, Date of Birth, etc.

Organization

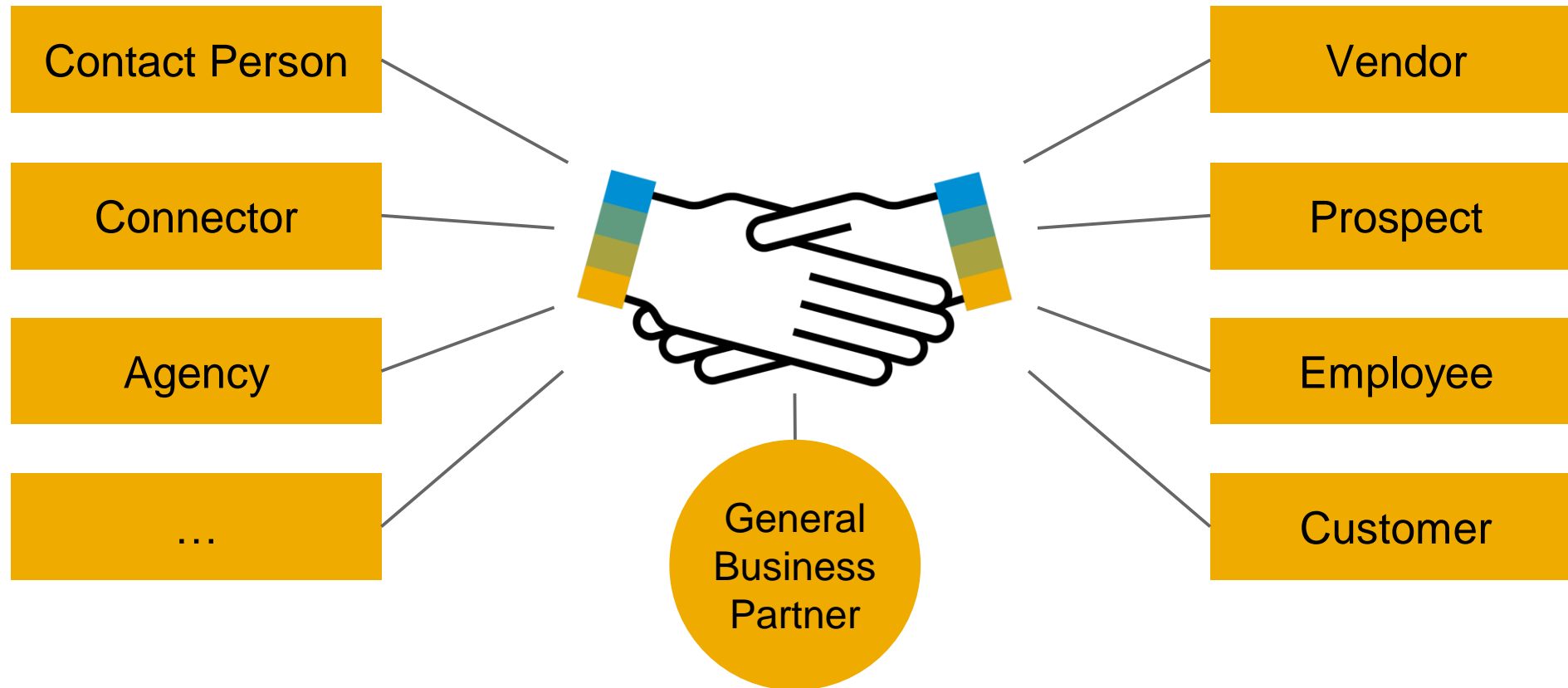
- Company, Subsidiary
- Company Data
 - Name, Legal Form, Industry etc.

Group

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

Data Model for Business Partner

New data model – Roles

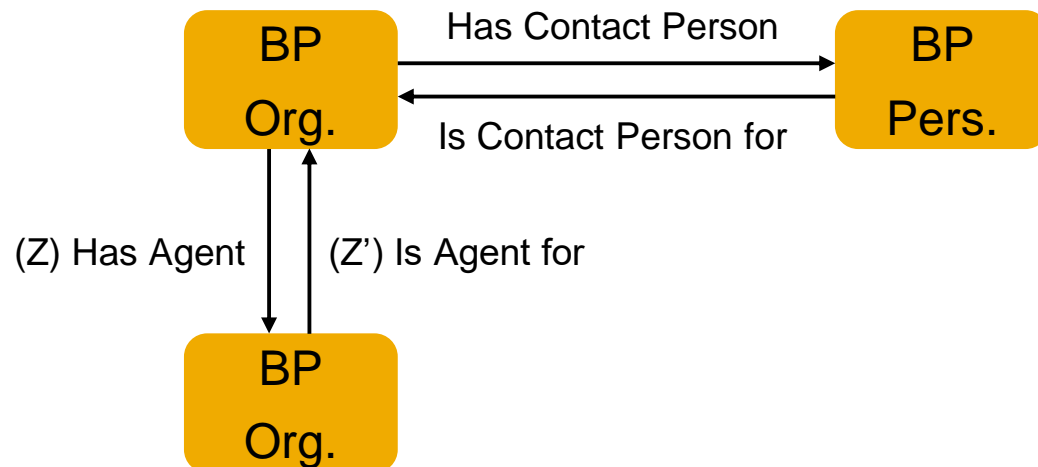


Data Model for Business Partner

New 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



The screenshot shows the SAP Business Partner Relationships interface. The title bar reads 'Business Partner Edit Goto Extras Environment System Help'. The main header is 'Organization: CAMP-03, maintain relationships'. Below this, there are tabs for 'Person', 'Organization', 'Group', 'General Data', 'Relationships', and a user icon. The 'Relationships' tab is active, showing 'Business Partner CAMP-03' and 'Kaffeestückchen AG / 10178 Berlin'. The 'Overview' tab is selected, and the 'Has Contact Person (1)' relationship is displayed. The 'Relationship Cat.' is 'FBUR001 Has Contact Person (1)' and the 'Format' is 'D Hierarchy'. Below this, there is a 'Relationship to BP' section with 'From' and 'to' fields, and a 'Create' button. The 'Business Partner' section shows a hierarchy: 'CAMP-03' (Kaffeestückchen AG / Rosenthaler Strasse 30 / 10178 Berlin) with a sub-entry 'CAMP-AP03' (Christian Camp-AP03 / Rosenthaler Strasse 30 / 10178 Berlin). The bottom status bar shows 'Partner', 'Key Date 02/21/2017', and 'Depth 1'.

Data Model for Business Partner

New data model – Categories, roles, and relationships



Company

5437865678



Ms Miller

14356

Business Partner
Category
Organization

Relationship
Ms Miller
Is Contact Person for
Company

Business Partner
Category
Person

(Role Grouping)

BP General

Address

Payment Data

Client

Customer

Shipping Condition

Incoterms

Sales Area

Customer

Payment Terms

Reconciliation
Account

Company Code

BP General

Name

Address

Client

**Contact
Person**

Correspondence
Language

Client

Data Model for Business Partner

New data model – Categories, roles, and relationships in transaction BP

The screenshot displays the SAP Business Partner (BP) transaction interface. The top section, titled "Create Organization", shows the "Organization" tab selected. A red box highlights the "Organization" tab, and another red box highlights the "Relationships" tab. A red box also highlights the "Category" dropdown menu, which is set to "3 Organizations". A red box highlights the "Create in BP role" button. A red box highlights the "Roles" dropdown menu, which is set to "FLCU00 Customer (Fin.Accounting)".

The bottom section, titled "Organization: 10100001, maintain relationships", shows the "Relationships" tab selected. A red box highlights the "Relationship Cat." field, which is set to "Has Contact Person".

The "Relationship to BP" table shows the following data:

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

Data Model for Business Partner

New data model – Customer/vendor integration (CVI)

Example: Customer Creation

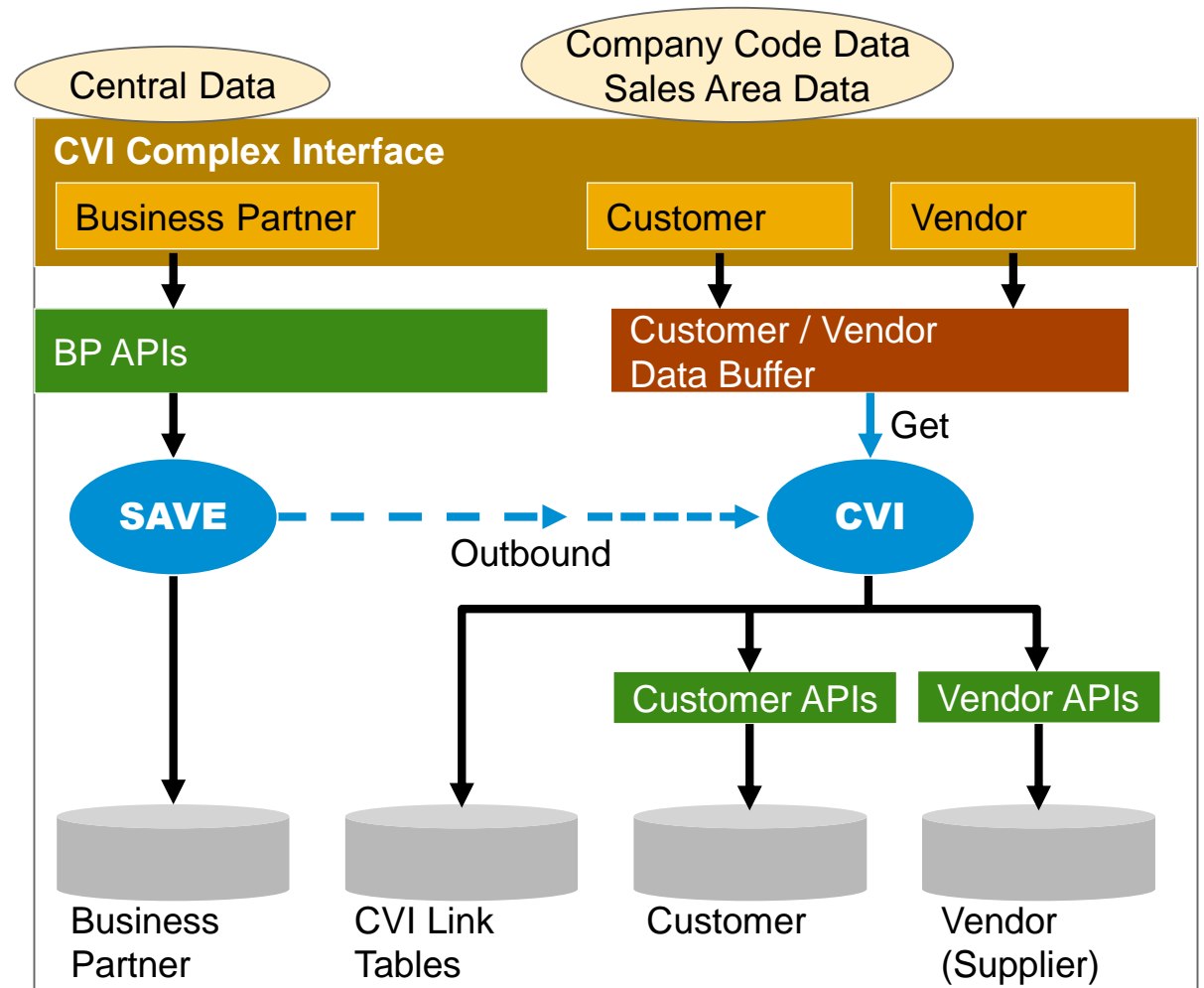
A **business partner** is always created when a customer or supplier is created.

The complex interface of the CVI (customer/vendor integration) contains **business partner**-specific data as well as **customer and vendor**-specific data.

The data of the business partner and customer/vendor is partially redundant (BUT000 against KNA1 & LFA1 data). *For instance 'Name and Address-specific attributes' are available in both persistencies.*

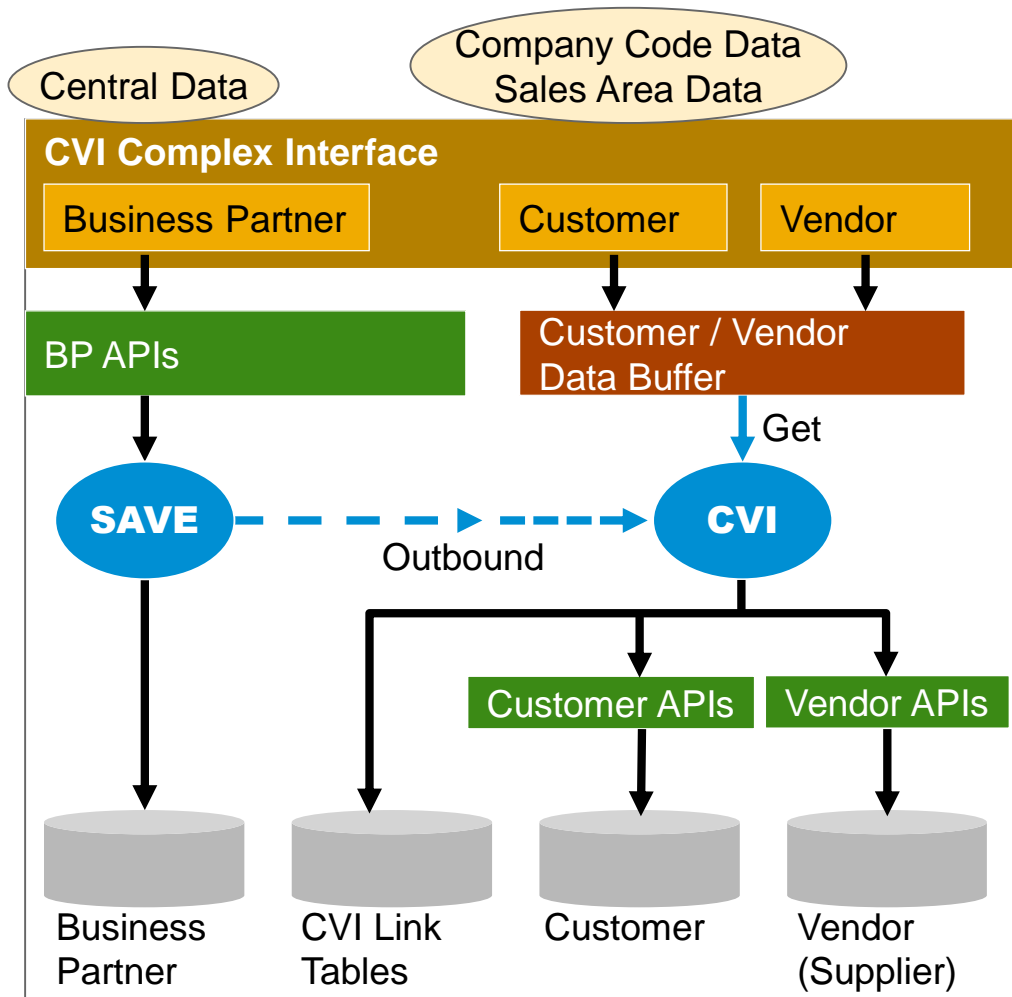
Customer or vendor-specific data is routed through the customer/vendor-specific interface and mixed up with the business partner central data.

On commit, the **business partner and corresponding customer and/or vendor and CVI link tables** are maintained/created.



Data Model for Business Partner

New data model – Customer/vendor integration (CVI) – Synchronization



ERP Synchronization (Conversion)

Leading Object

Background Object

Customer

Vendor

Business Partner

SAP S/4HANA Synchronization

Leading Object

Background Object

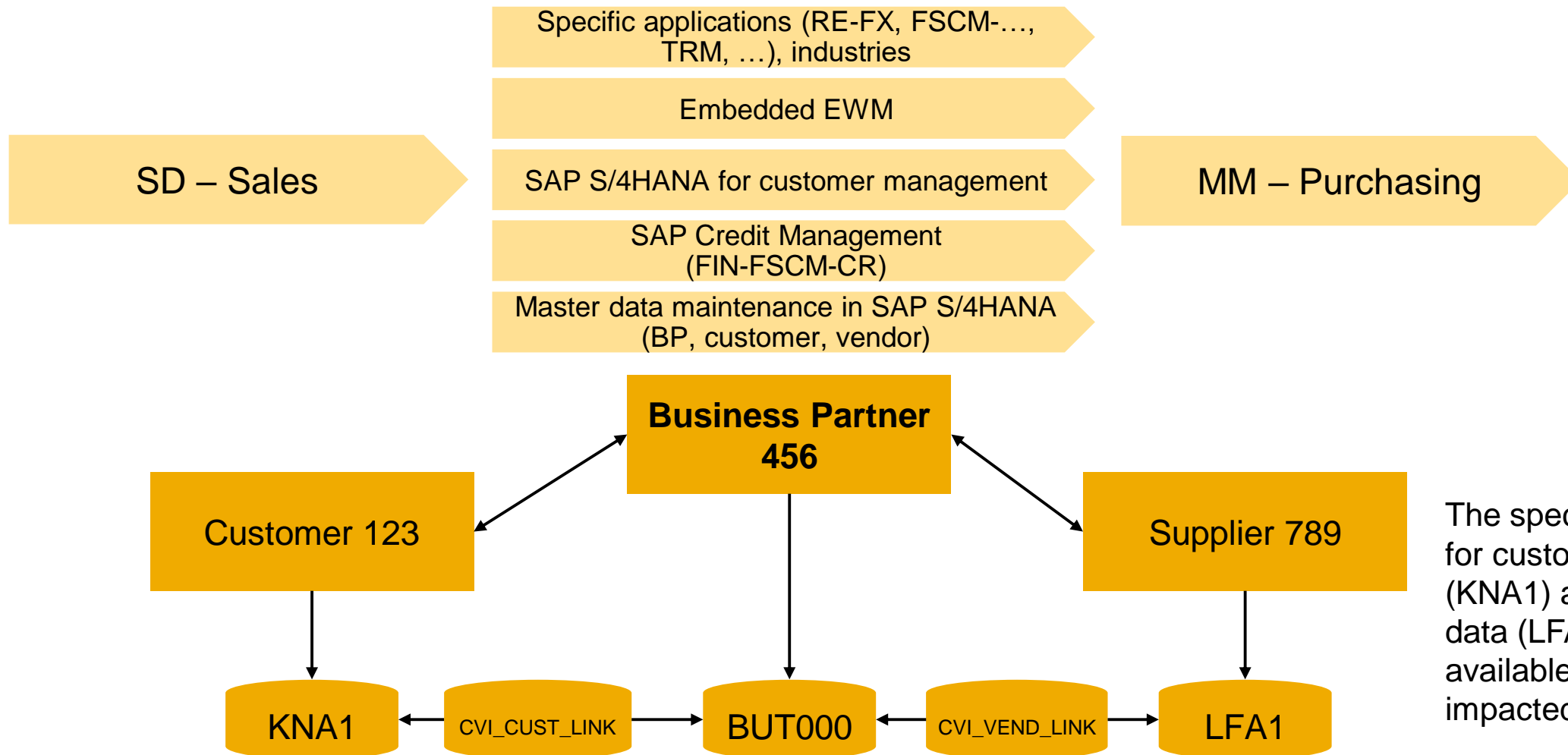
Business Partner

Customer

Vendor

Data Model for Business Partner

New data model – Numbering



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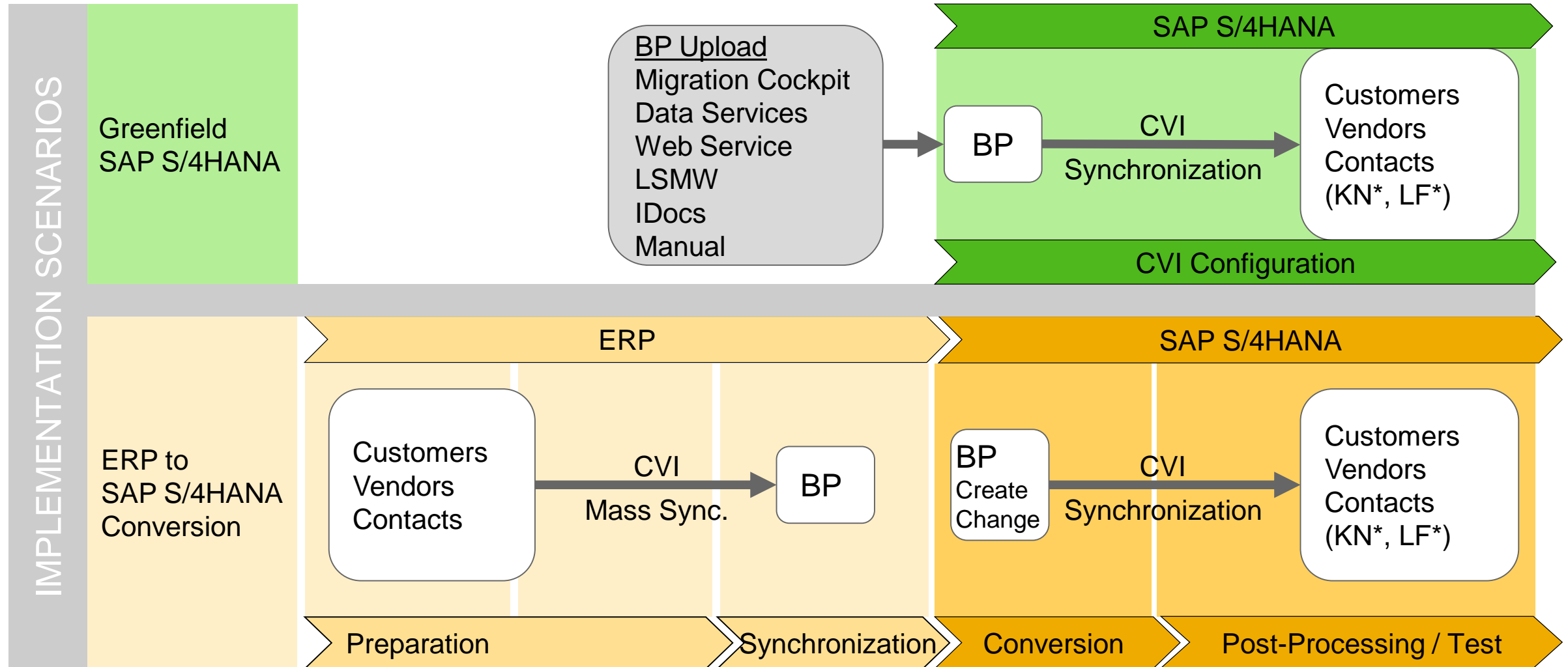


Week 2: Converting Finance and Business Partner

Unit 6: Customer/Vendor Integration and Synchronization

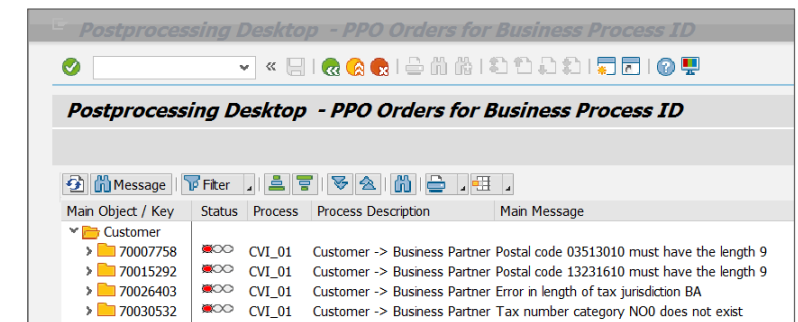
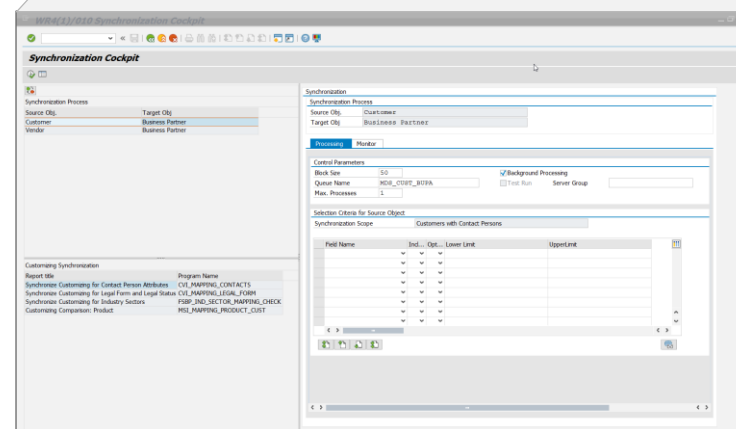
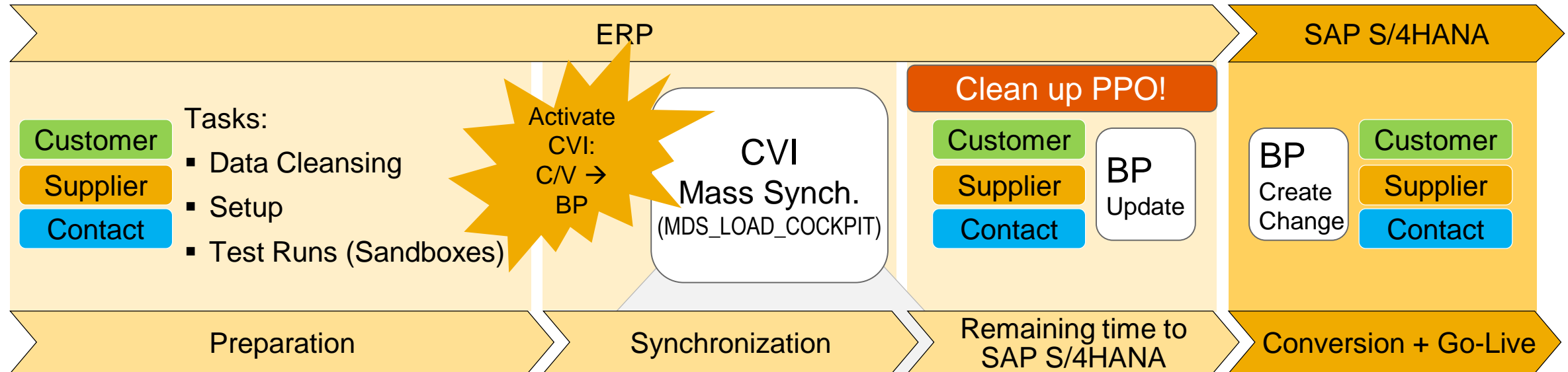
Customer/Vendor Integration and Synchronization

Customer/vendor integration in transition scenarios



Customer/Vendor Integration and Synchronization

Mass synchronization in ERP: MDS_LOAD_COCKPIT



Customer/Vendor Integration and Synchronization

Mass synchronization in ERP: MDS_LOAD_COCKPIT

The screenshot displays the SAP Synchronization Cockpit interface. The main window is titled "Synchronization Cockpit" and features a menu bar (Cockpit, Edit, Goto, System, Help) and a toolbar. The interface is divided into several sections:

- Synchronization Process:** A table showing the mapping of source and target objects.
- Control Parameters:** Fields for Block Size, Queue Name, and Max. Processes, along with checkboxes for Background Processing and Test Run.
- Selection Criteria for Source Object:** A dropdown menu for Synchronization Scope.
- Synchronization Runs:** A table showing the history of synchronization runs.

Annotations highlight specific features:

- Synchronization Options (IMG):** Points to the Synchronization Process table.
- No. of Customers/Vendors + additional Contact Persons:** Points to the Synchronization Scope dropdown.
- No. of Dialog Tasks:** Points to the Max. Processes field.
- available Select Options:** Points to the dropdown menu for the Synchronization Scope.

Source Obj.	Target Obj
Customer	Business Partner
Vendor	Business Partner

Block Size	50
Queue Name	MDS_CUST_BUPA
Max. Processes	1

Synchronization Scope	Customers with Contact Persons
-----------------------	--------------------------------

Pro...	Stat...	Date	Time	User Name	Test	Synchronization Scope	Queue N
		27.06.2018	14:29:22			Customers with Contact...	

Field Name	In...	Op...	Lower Limit	UpperLimit
KTOKD Account group	▼	▼		
KUNNR Customer	▼	▼		
LOEVM Central deletion fla	▼	▼		

Customer/Vendor Integration and Synchronization

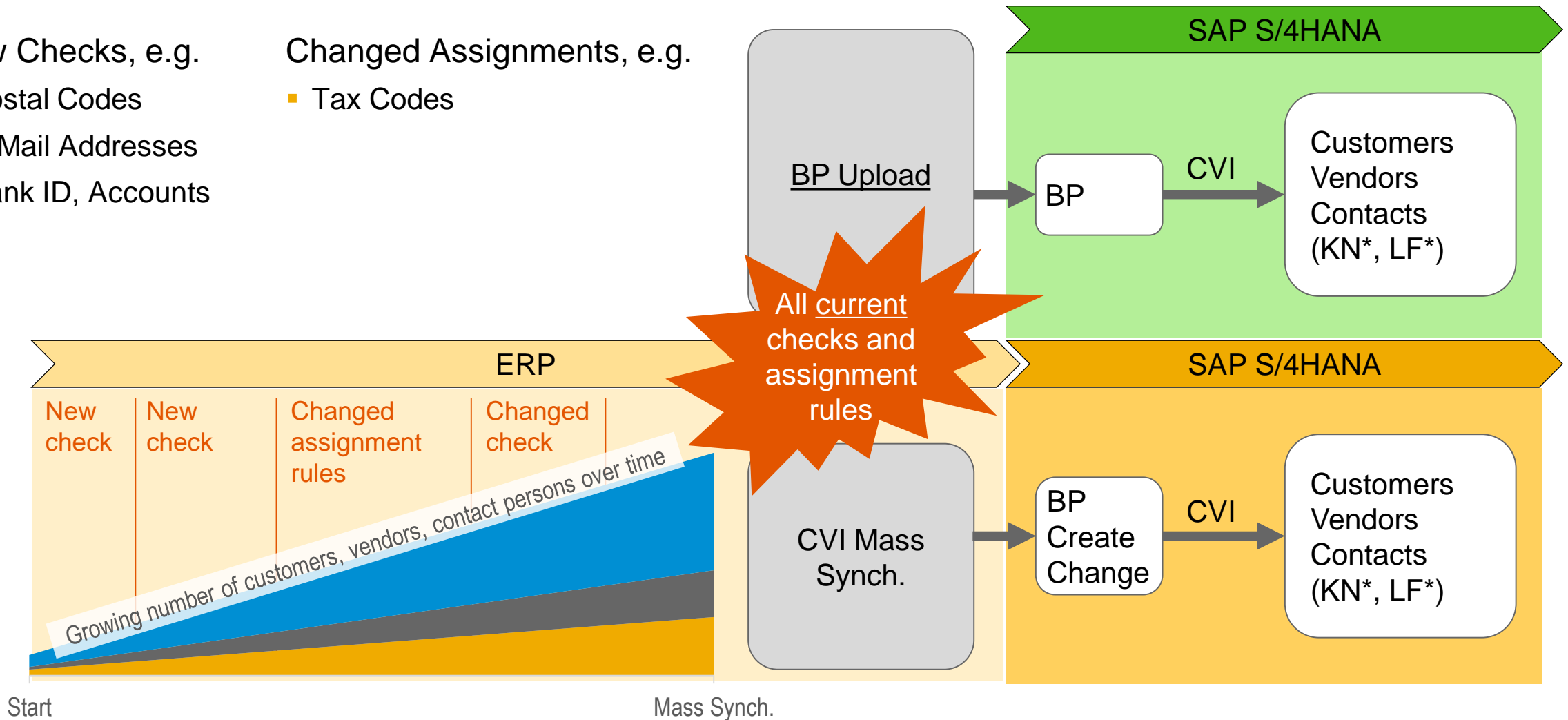
Data cleansing

New Checks, e.g.

- Postal Codes
- E-Mail Addresses
- Bank ID, Accounts

Changed Assignments, e.g.

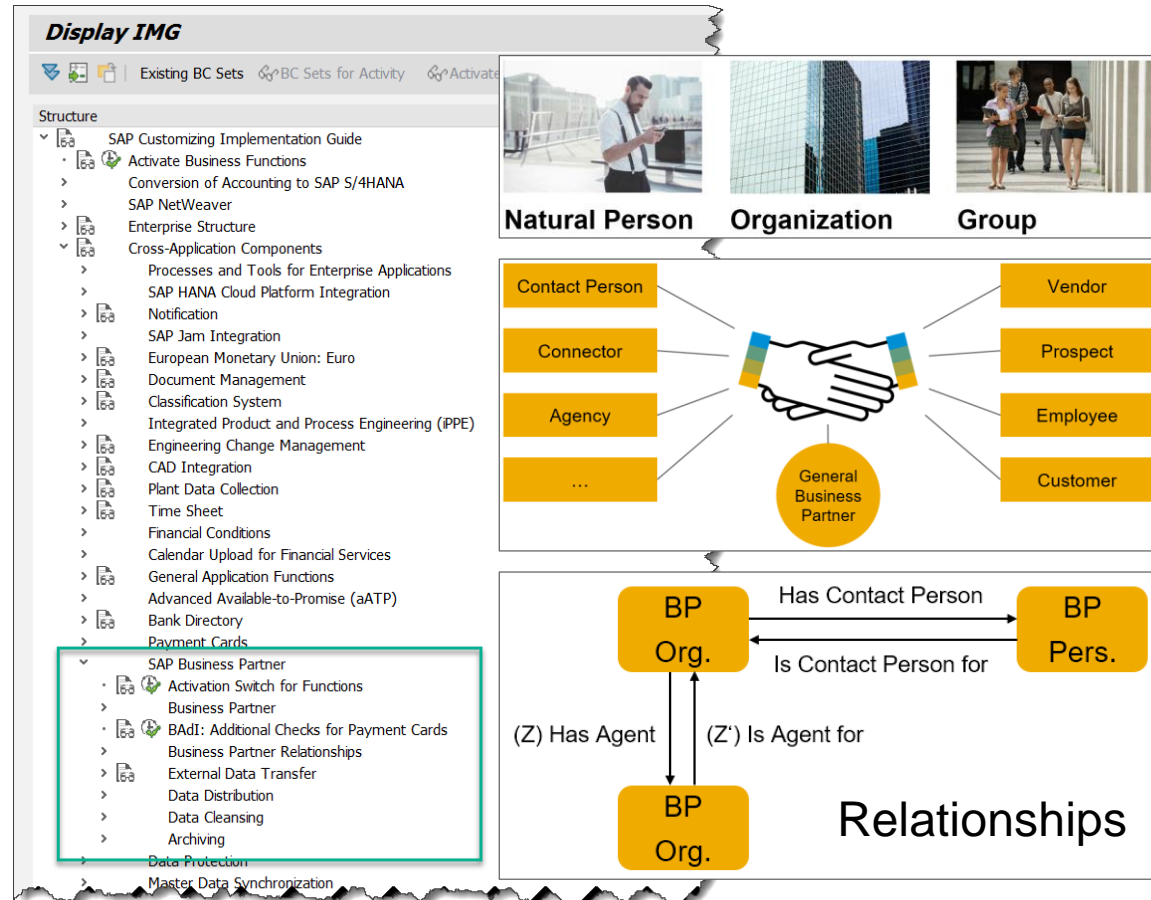
- Tax Codes



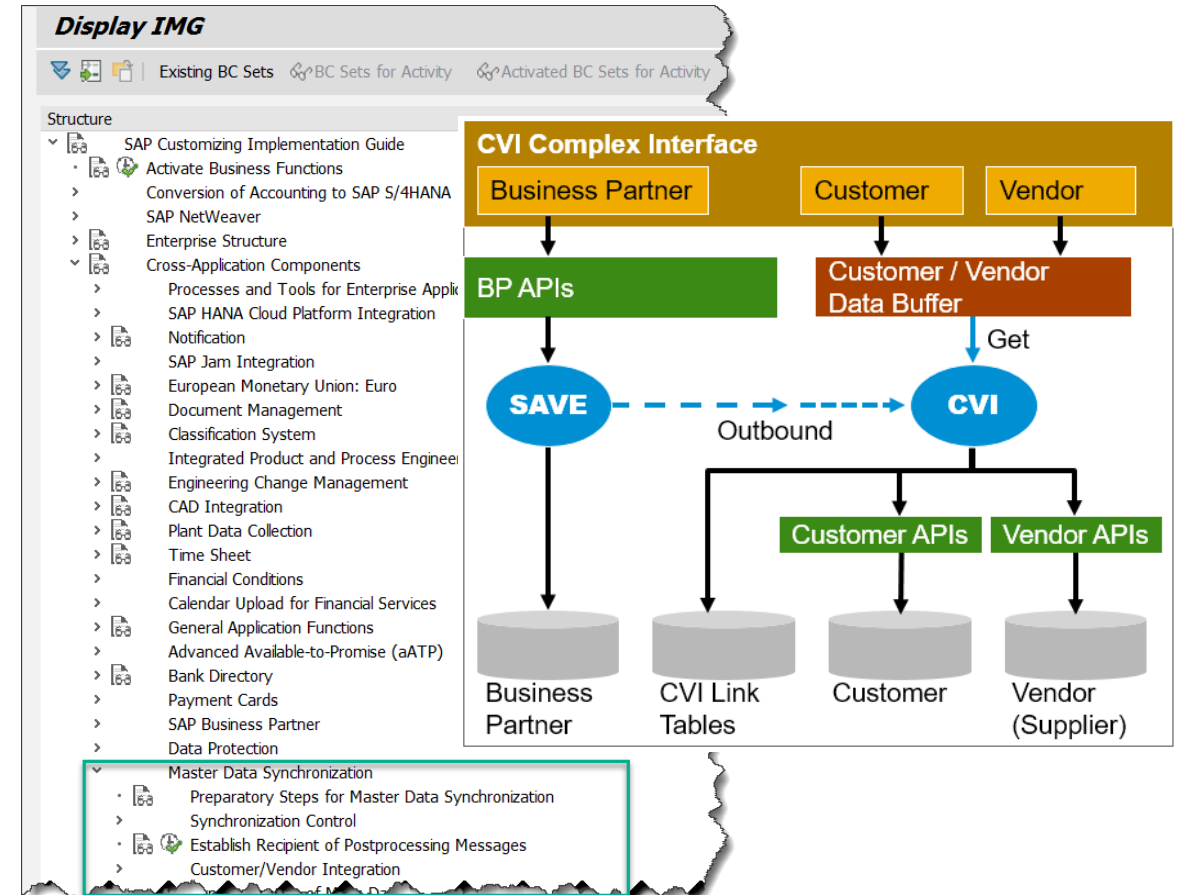
Customer/Vendor Integration and Synchronization

Set up BP Customizing and master data synchronization (CVI)

Set Up Business Partner

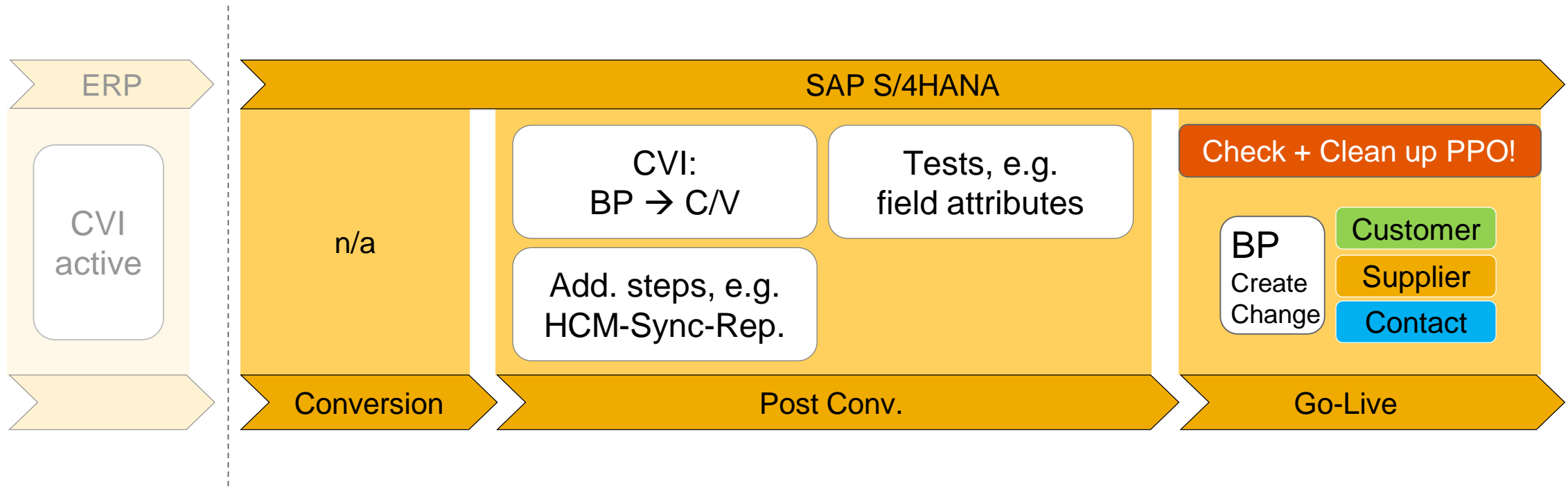


Set Up Master Data Synchronization (CVI)



Customer/Vendor Integration and Synchronization

Steps after SAP S/4HANA conversion



Customer/Vendor Integration and Synchronization

Set up BP Customizing and master data synchronization (CVI)

- BP setup
- Set up CVI (master data synchronization)
- Accelerators:
 - Data quality check report (sample coding)
 - Excel file to sort out number ranges
 - SAP standard reports
- Experiences, How-tos
- Important SAP Notes

SAP S/4HANA Cookbook Customer/Vendor Integration

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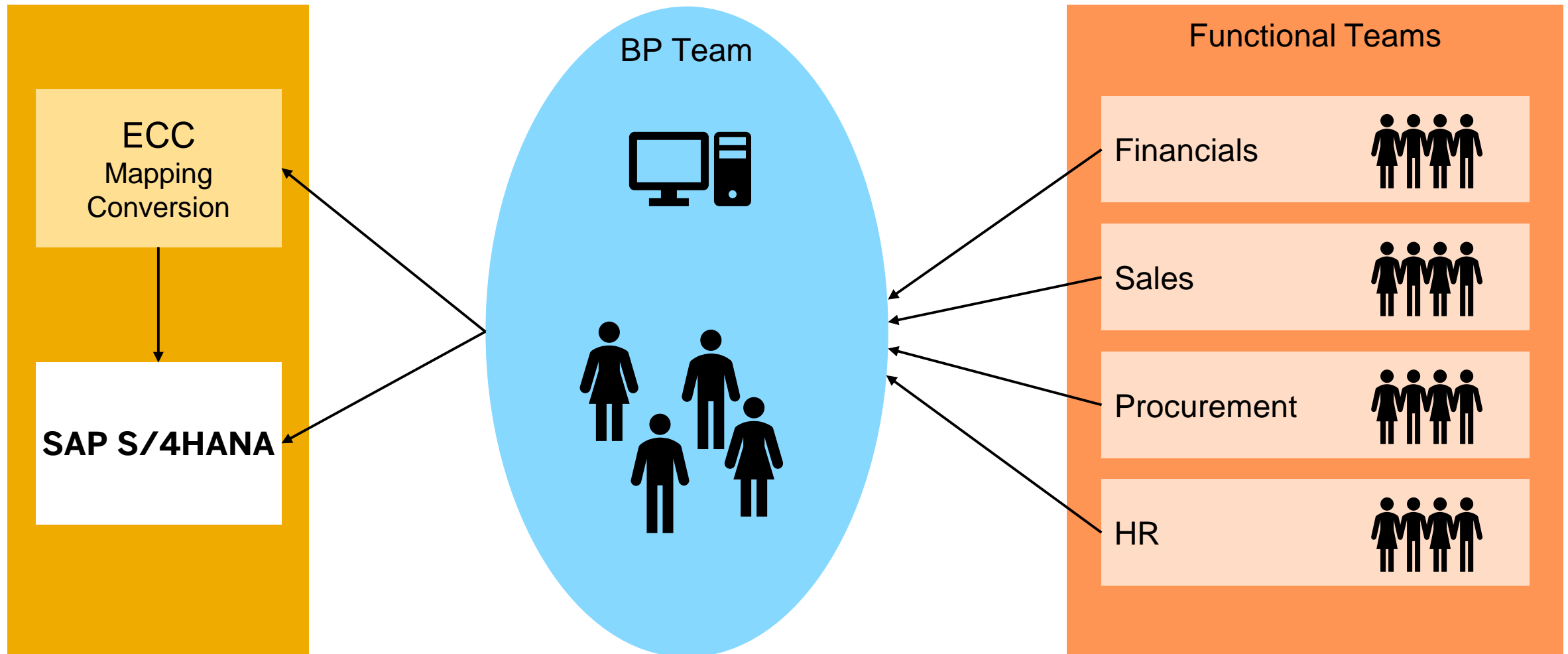


Week 2: Converting Finance and Business Partner

Unit 7: Tips and Tricks for Business Partner Synchronization

Tips and Tricks for Business Partner Synchronization

Team setup



Tips and Tricks for Business Partner Synchronization

Time frame

As early as possible

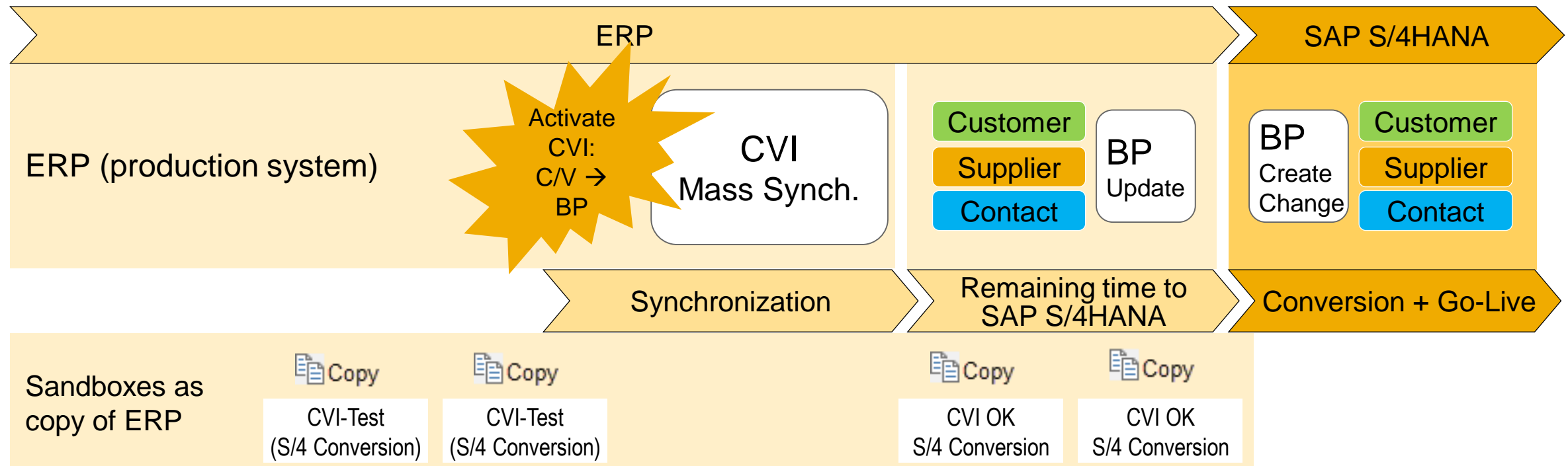
- At beginning of S/4 project
- At the point an S/4 project is planned

Activated CVI can run in parallel for long time (C/V → BP)

- Takes pressure out of the project schedule
- Master data quality is the main reason for delay at BP conversion

Critical paths

- Data cleansing
- Number ranges

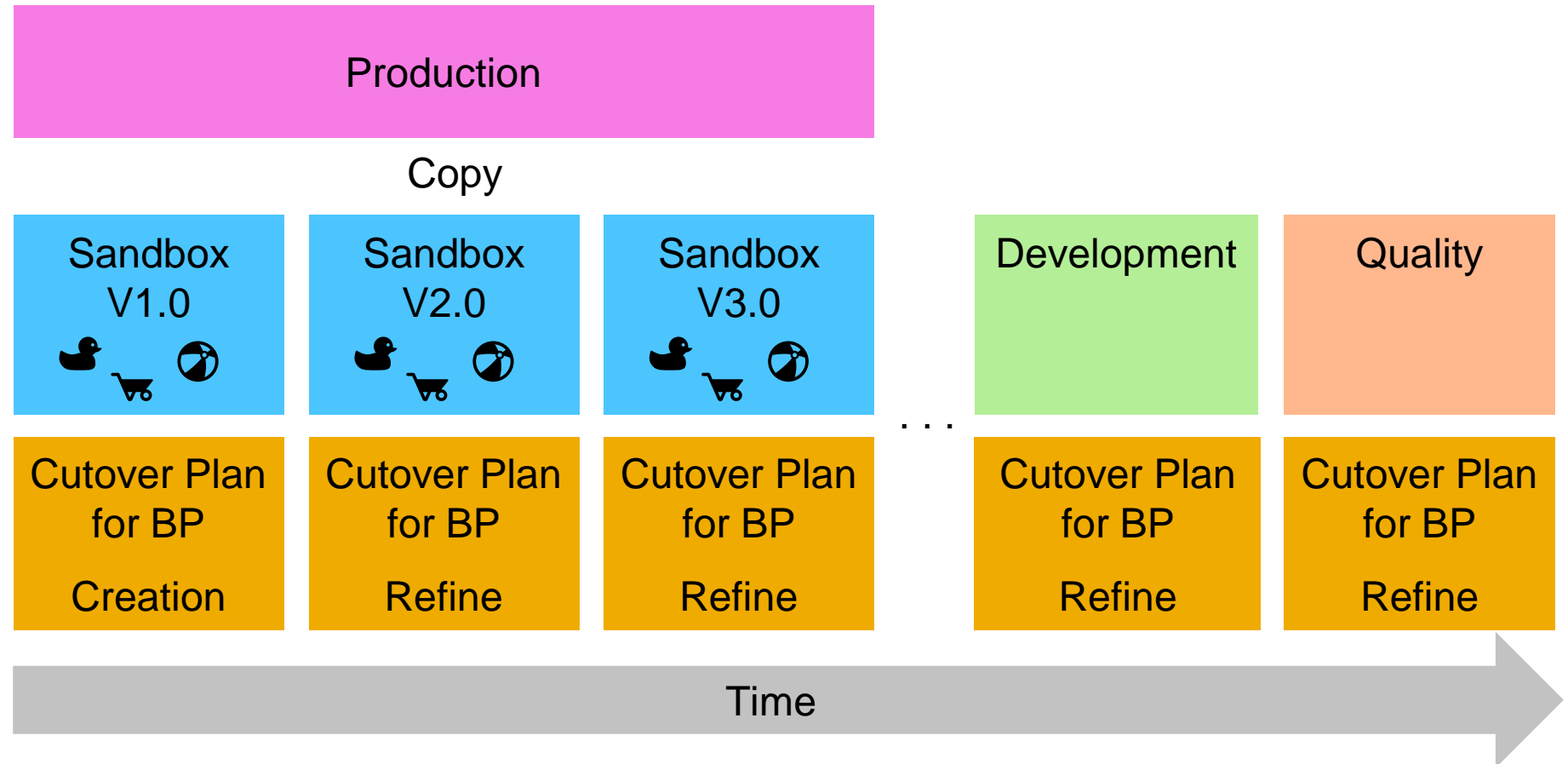


Tips and Tricks for Business Partner Synchronization

Sandbox conversion

Number of sandbox conversions dependent on:

- Complexity
- Amount of data
- Data quality



Tips and Tricks for Business Partner Synchronization

CVI mass synchronization in ERP business downtime

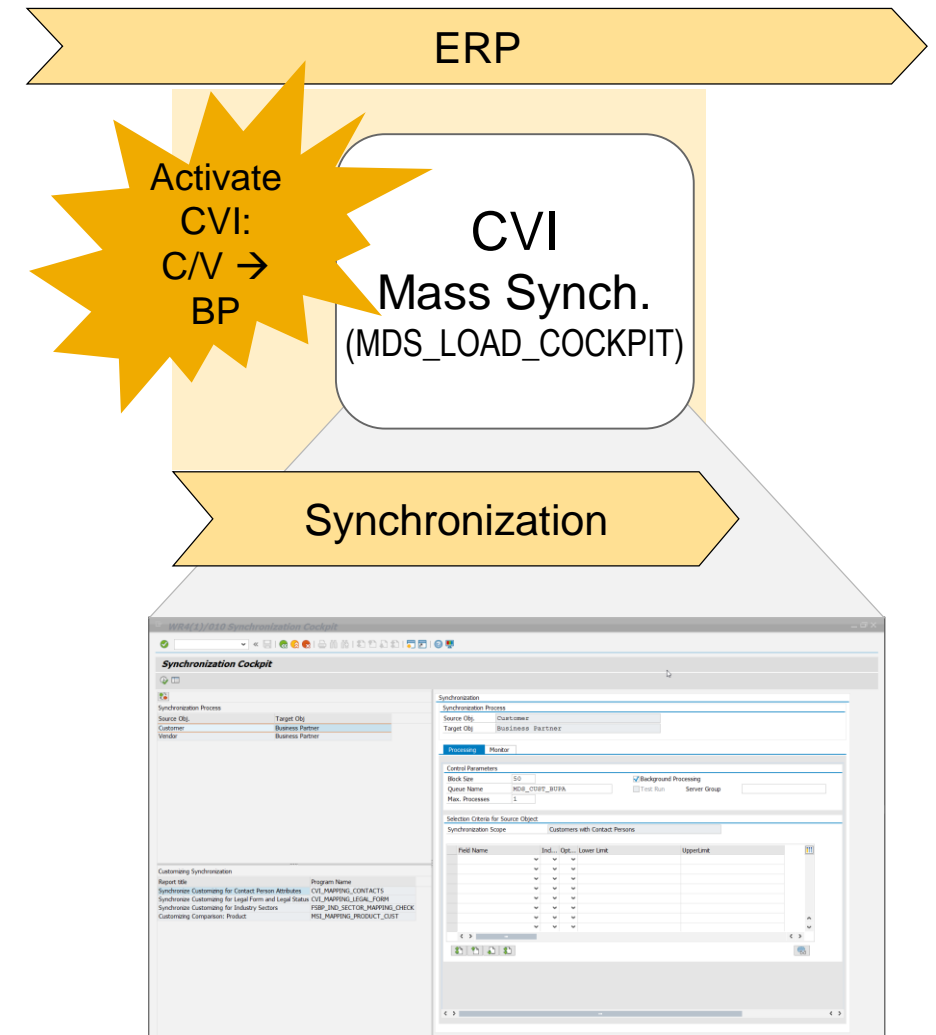
Technically possible in parallel to daily business but

- recommended in business downtime (at least downtime for respective master data changes)

Reasons

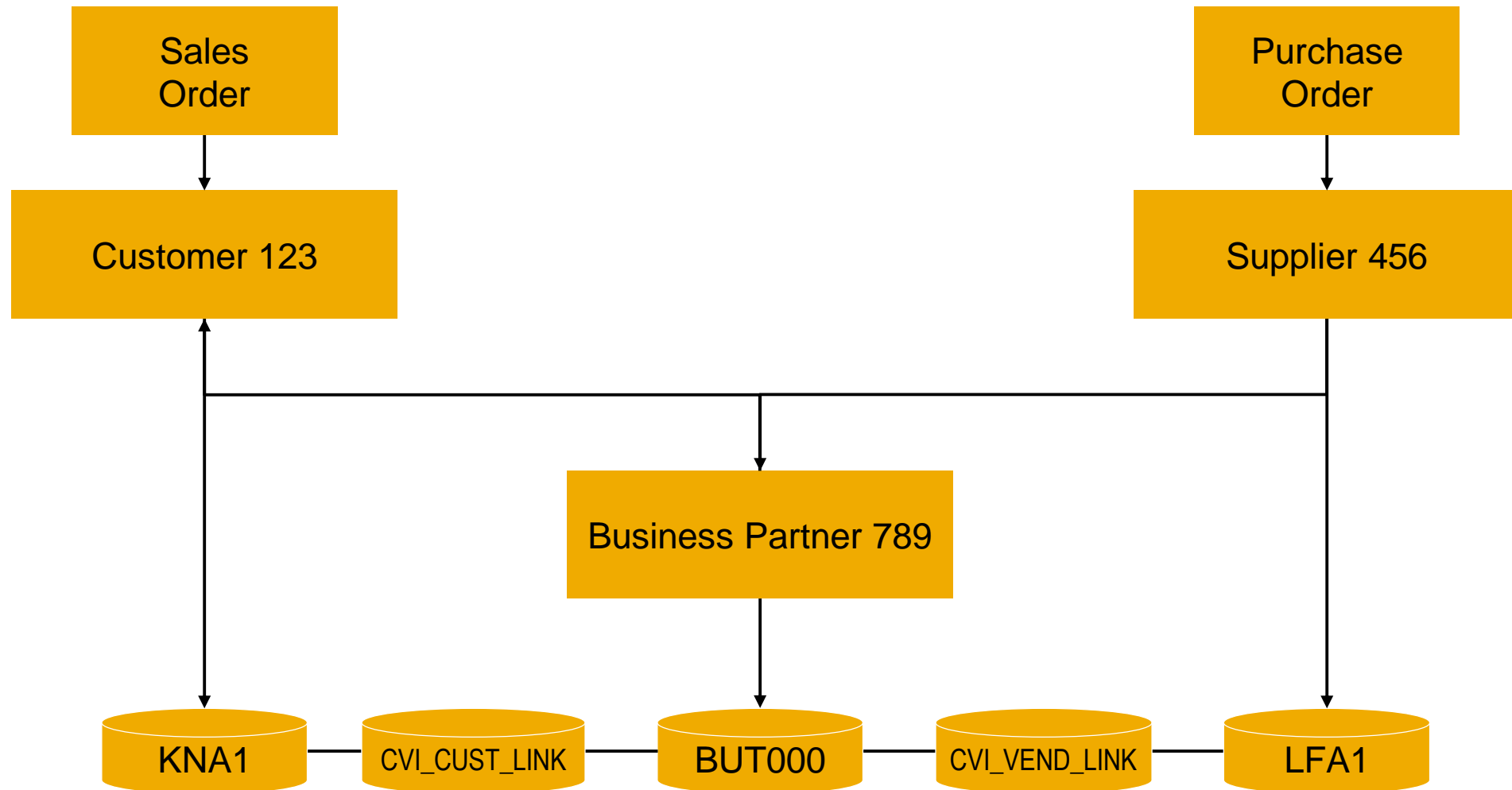
- Performance: number of parallel task vs business processes
- Recommended to stop C/V/CP/BP* interfaces: creation of BP might trigger change pointers
- Numbering → certain temporary setup might be required to gain respective BP numbers

* C – Customer, V- Vendor, BP – Business Partner



Tips and Tricks for Business Partner Synchronization

Data model BP – Numbers at Business Partner and Customer/Supplier



Tips and Tricks for Business Partner Synchronization

Example: numbering in ERP and SAP S/4HANA

Variant 1

Keep the same Business Partner number for Customer/Supplier and Contact Person

→ Prerequisite: No overlaps

ERP (before conversion)
Direction Customer/Supplier → BP

Customer **12345**

BP **12345**

Supplier **56789**

BP **56789**

SAP S/4HANA (after conversion)
Direction BP → Customer/Supplier

BP **12345**

Customer **12345**

BP **56789**

Supplier **56789**

Tips and Tricks for Business Partner Synchronization

Example: numbering in ERP and SAP S/4HANA

Variant 2

New BP numbers → different numbers for BP and Customer/Supplier/Contact Person

ERP (before conversion)
Direction Customer/Supplier → BP

Customer **12345**

BP **1001456**

Supplier **56789**

BP **1001457**

SAP S/4HANA (after conversion)
Direction BP → Customer/Supplier

BP **1001456**

Customer **12345**

BP **1001457**

Supplier **56789**

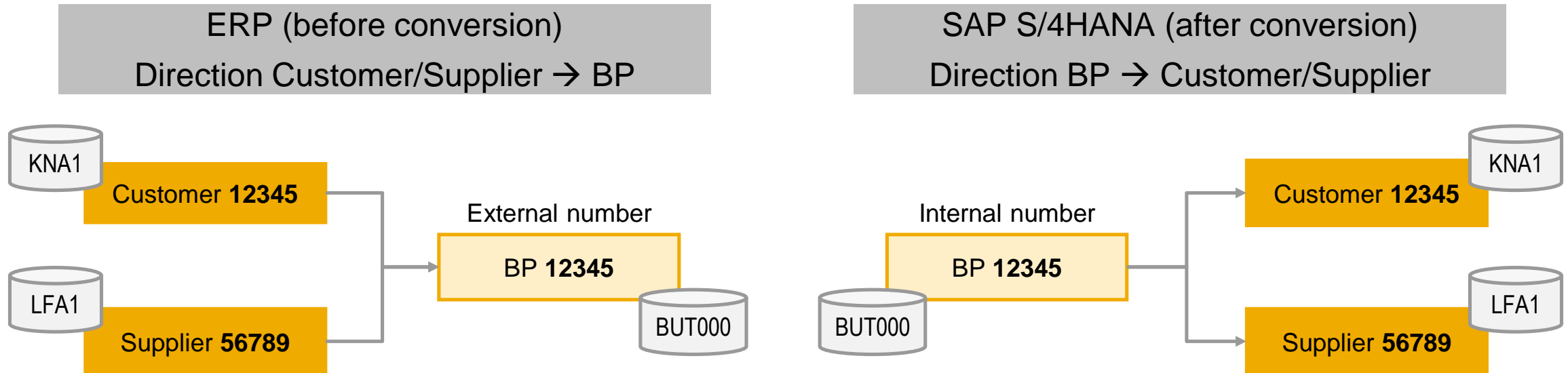
Tips and Tricks for Business Partner Synchronization

Example: numbering in ERP and SAP S/4HANA

Variant 3

Merge Customer and Supplier

- Same BP and Customer number → Customer no. is leading in ECC



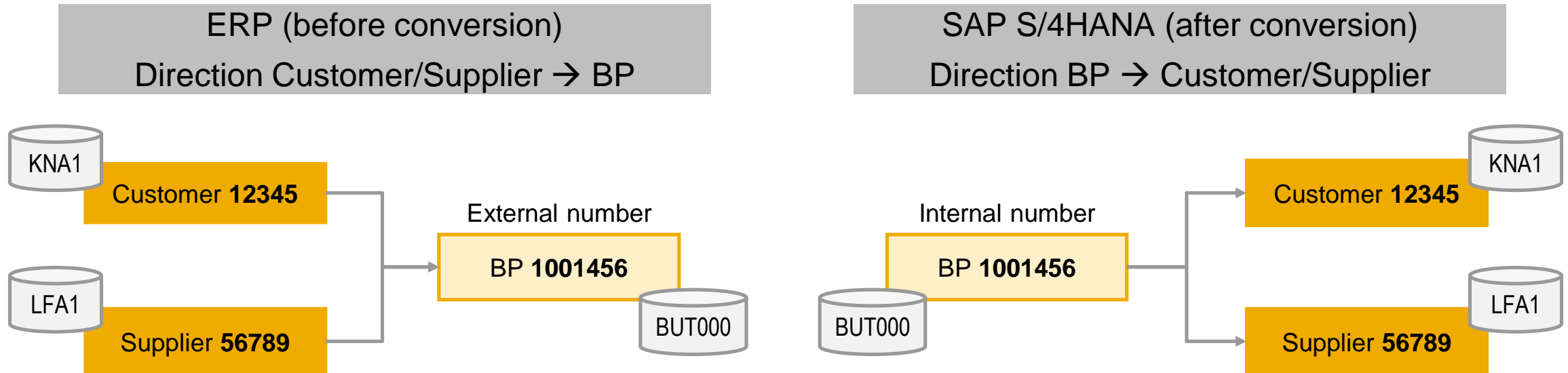
Tips and Tricks for Business Partner Synchronization

Example: numbering in ERP and SAP S/4HANA

Variant 4

Merge Customer and Supplier

- Different numbers for BP and Customer/Supplier/Contact Person



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