

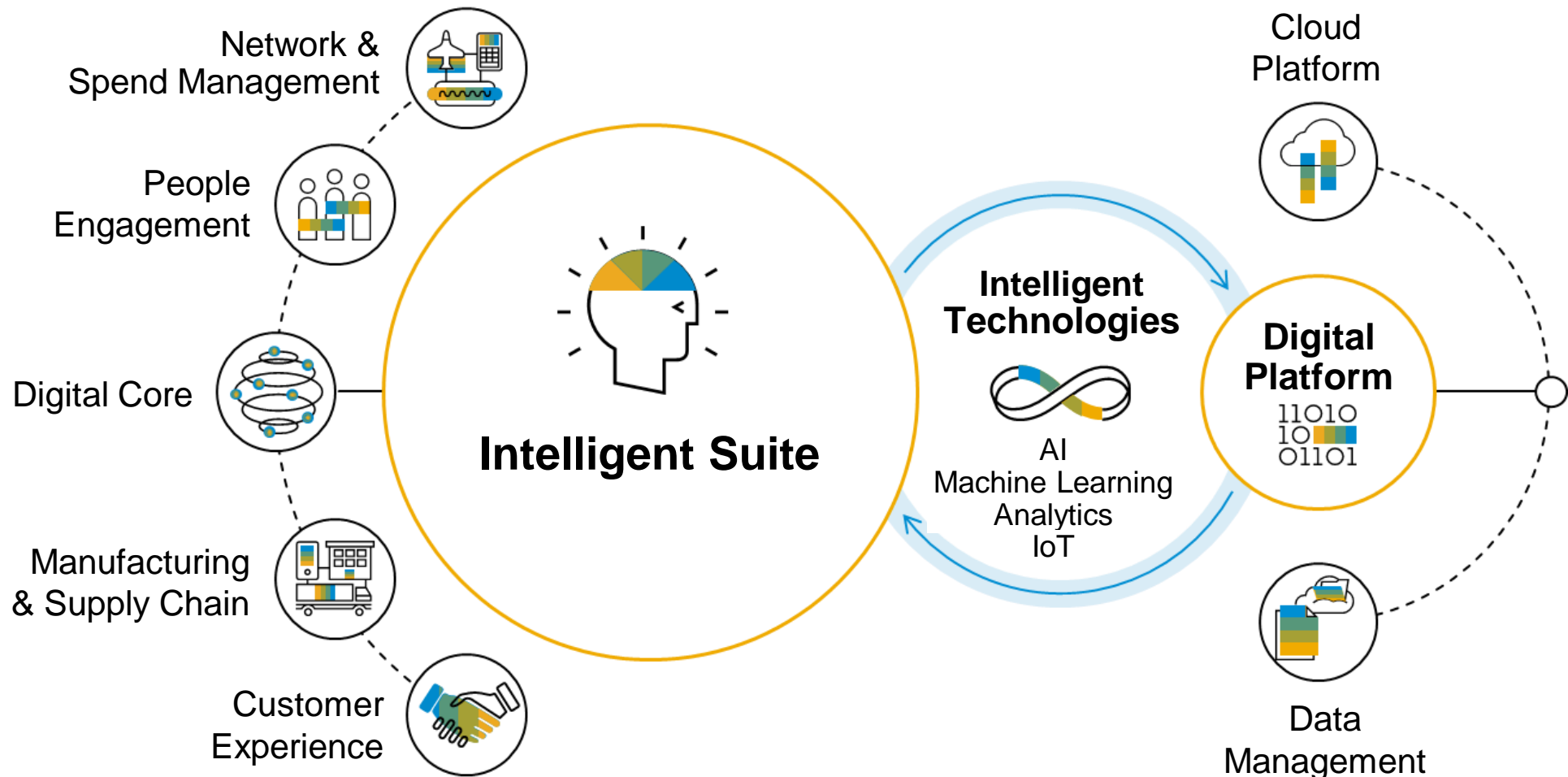


Week 1: Fundamentals and Technical Tooling

Unit 1: Introduction to the Technical Tooling

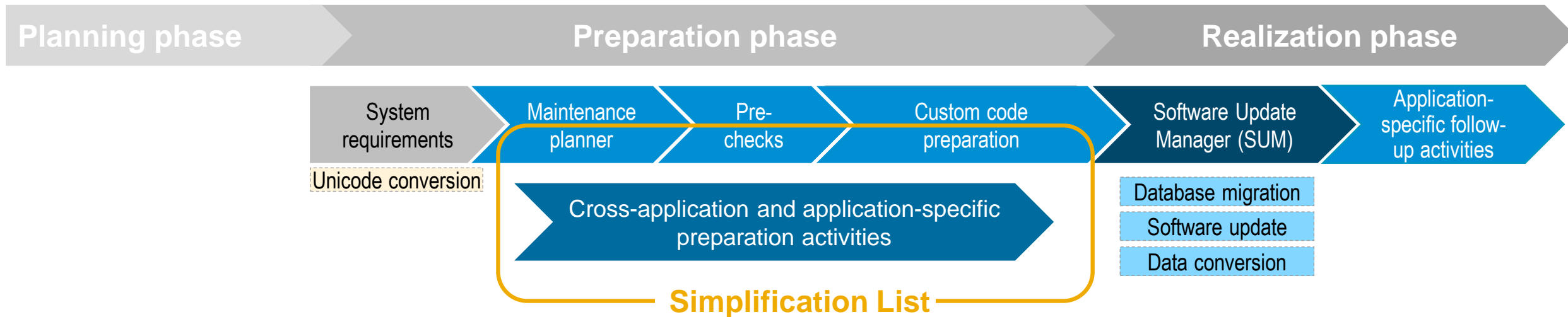
Introduction to the Technical Tooling

Intelligent Enterprise



Introduction to the Technical Tooling

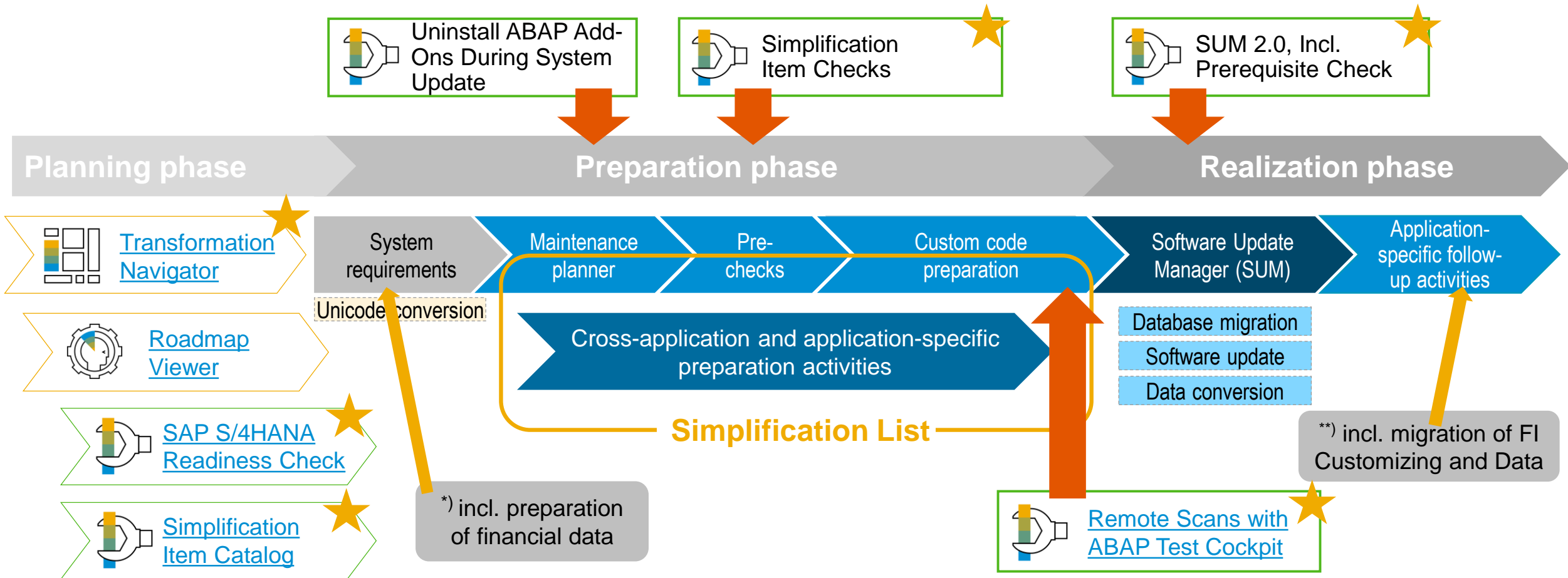
System conversion steps



Introduction to the Technical Tooling

System conversion steps

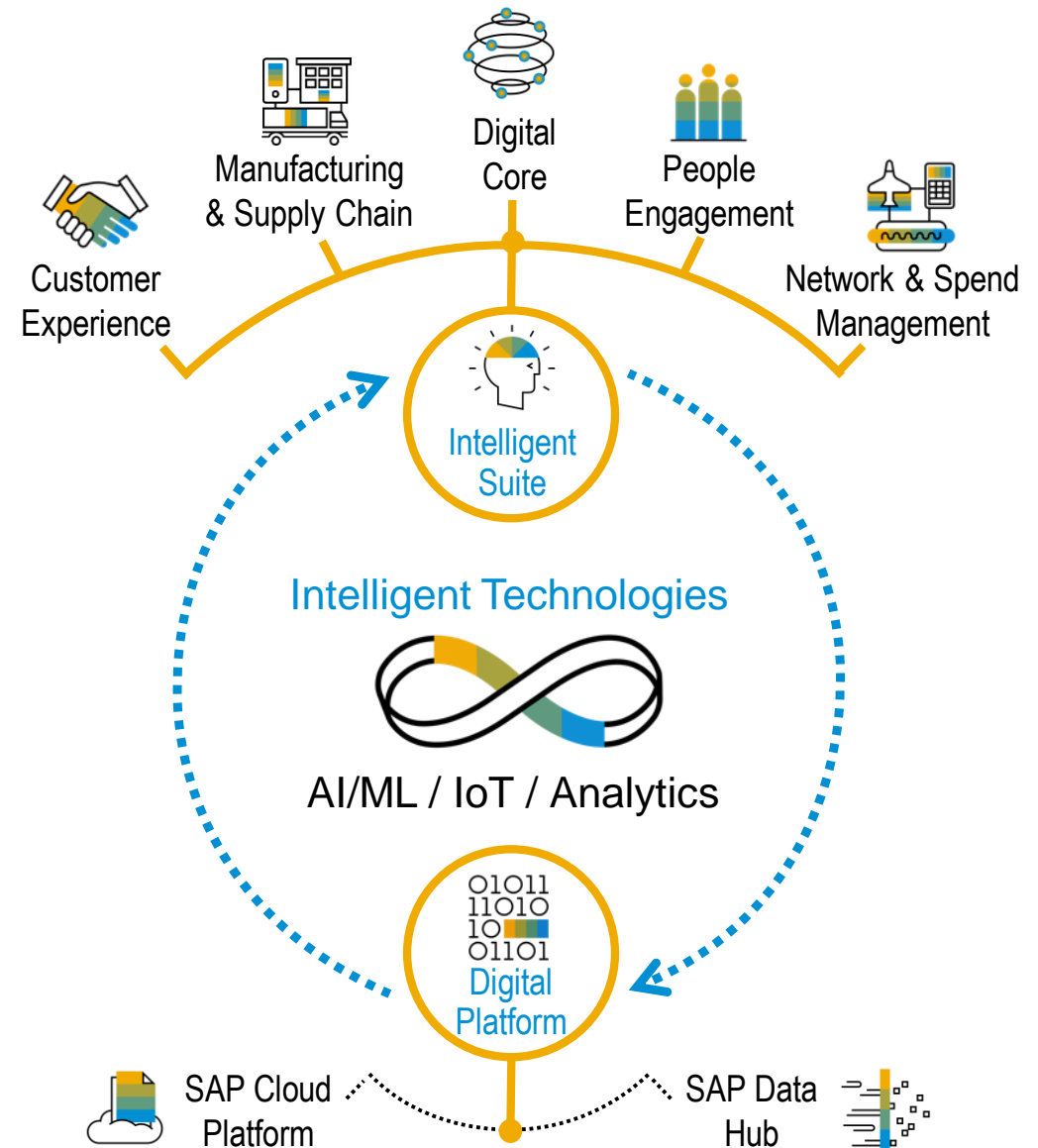
★ Updated



Protect your investment and stay current

What's next?

- Mechanism to keep system up-to-date
- Drive innovation into you business processes



Thank you.

Contact information:

open@sap.com

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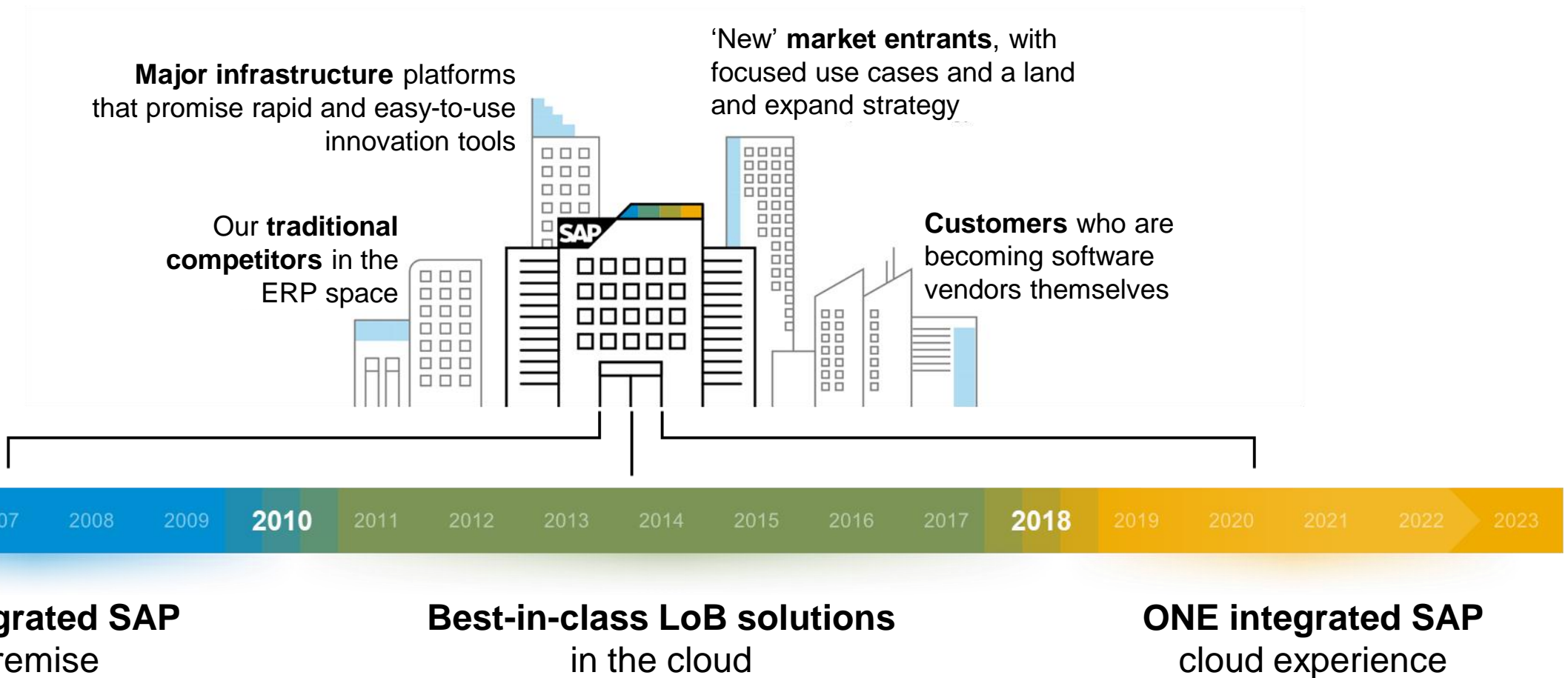


Week 1: Fundamentals and Technical Tooling

Unit 2: What's New in SAP S/4HANA Architecture and Components

What's New in SAP S/4HANA Architecture and Components

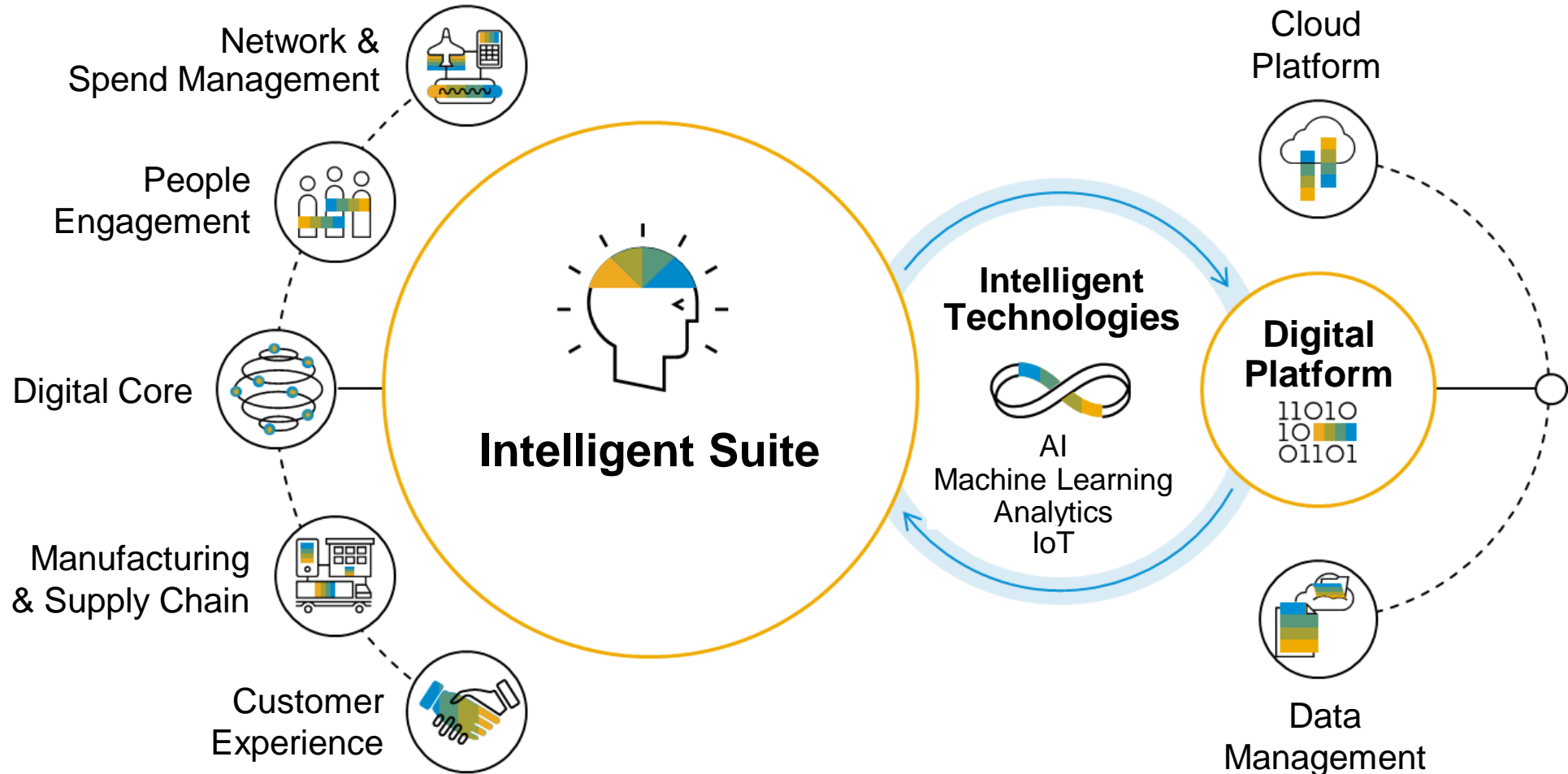
Delivering the Intelligent Enterprise



What's New in SAP S/4HANA Architecture and Components

The vision of the Intelligent Enterprise

Enabling businesses to deliver an outstanding customer experience



What's New in SAP S/4HANA Architecture and Components

SAP S/4HANA on-premise: architecture, information flow, and integration

SAP Leonardo



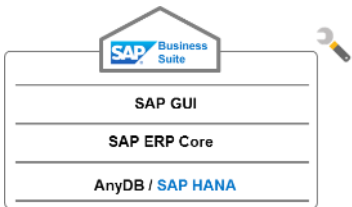
SAP Cloud Platform



SAP Cloud for Analytics
Business Warehouse



SAP and Non-SAP
Applications

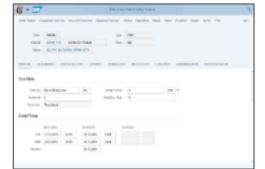
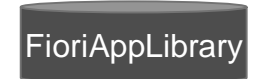
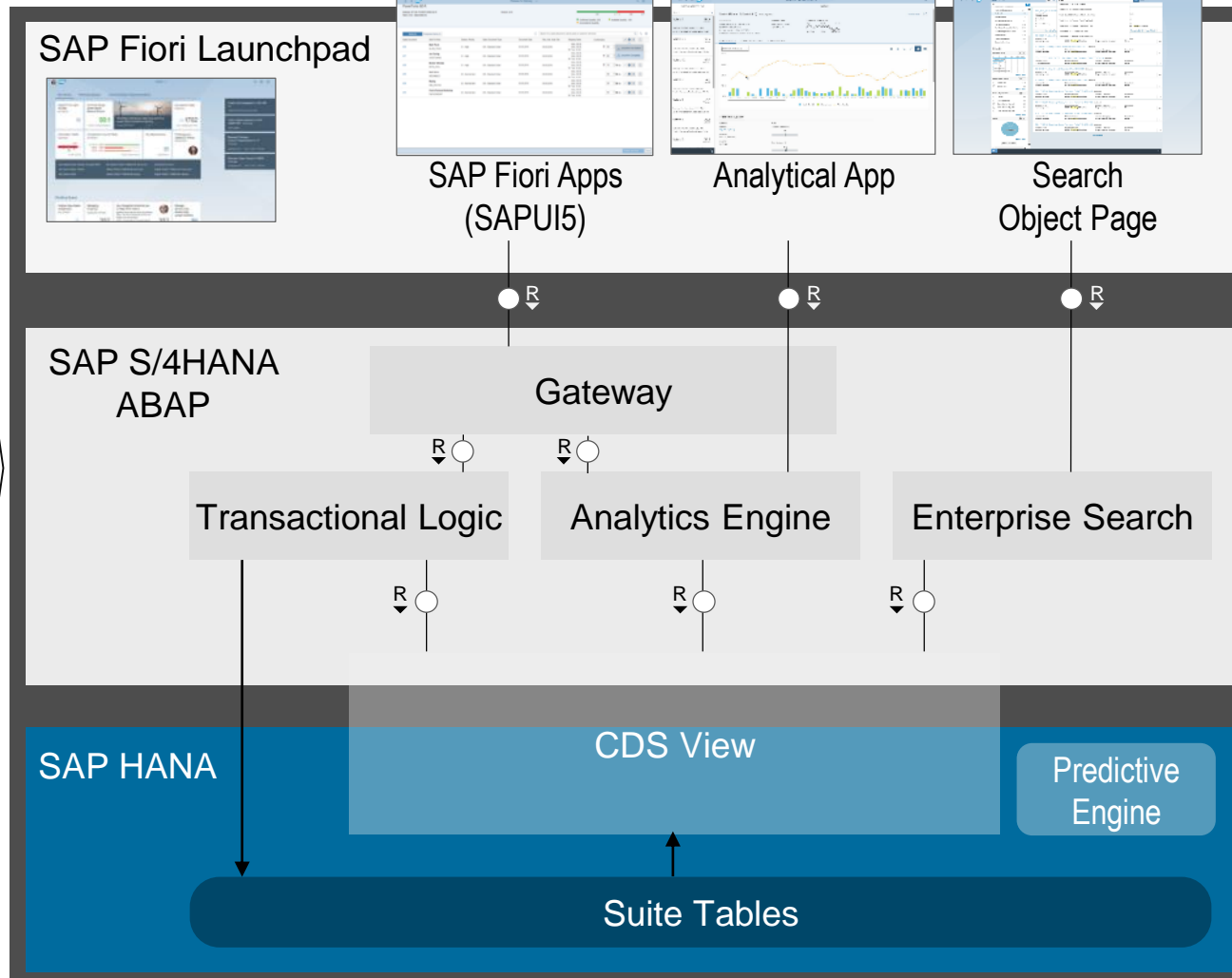


System Conversion
(Simplification)

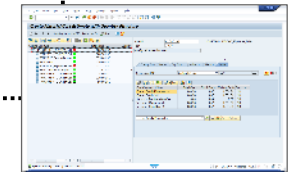


Data Migration
(Best Practice)

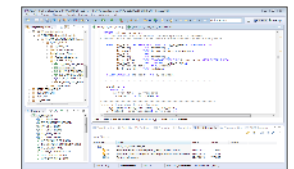
SAP S/4HANA



Web GUI
SAP Fiori
Visual Theme



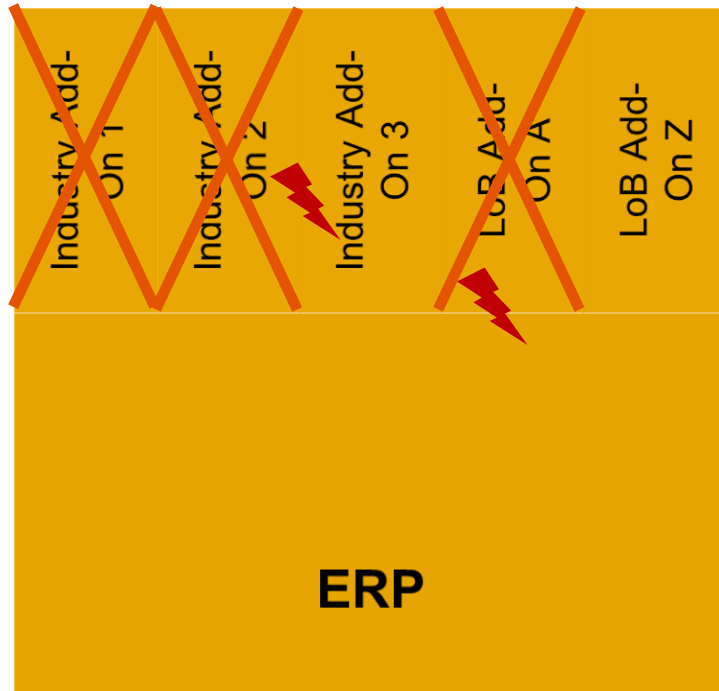
SAP GUI



ABAP Eclipse

SAP S/4HANA – Evolution of software delivery incl. “Industry to Core”

1809



¹ Moved to SAP S/4HANA Core

² New in 1709

³ New in 1809

SAP S/4HANA – Evolution of software delivery incl. “Industry to Core”

1809



ONE physical shipment

from Automotive¹

Integrated Product and Process Engineering
Packaging Logistics
Executing Inbound Deliveries
Just-in-Time, Just-in-Sequence
Kanban
Parts Interchangeabilities / Supersession
Production Backflush for Discrete Industries
Self-Billing (Inbound)
Evaluated Receipt Settlement
Scheduling Agreement Processing
Vehicle Management System, Vehicle Search
Long Material Number
Vehicle Search²

from E&C, Aerospace & Defense, Mill, Utilities¹

Equipment Tools Management
Bill of Services
MRO Maintenance, Repair & Overhaul
Align Multiple Planned Orders to One Prod. Order²
Global Batch Traceability³
Utilities Service Interaction Center³

from Professional Services

Commercial Project Management²

from Consumer Products

Catch Weight Management (Incl. Conversion)^{2, 3}
Commodity Management for Sales & Procurement²
SAP Agricultural Contract Management^{1, 2, 3}

from Retail & Wholesale¹

Retail Article Aligned with Material Master
Business Partner Concept Aligned with Site
Fashion – Wholesale Processes², PSST Rules²
Order Allocation, Segmentation
Merchandise Management¹– Empties & Tied Empties³

from Oil & Gas¹

Supply Chain Visualization
TSW Planning & Analytics, Ticketing
Physical Inventory Data Capture & Processing
IS-Oil Commodity Management Integration²

from Banking & Insurance:

Integration with SAP Loans Management²
Amount Field Length Extension in the General Ledger³
Lease Accounting for Lease Contracts³

from Media

Product Master Hierarchy²

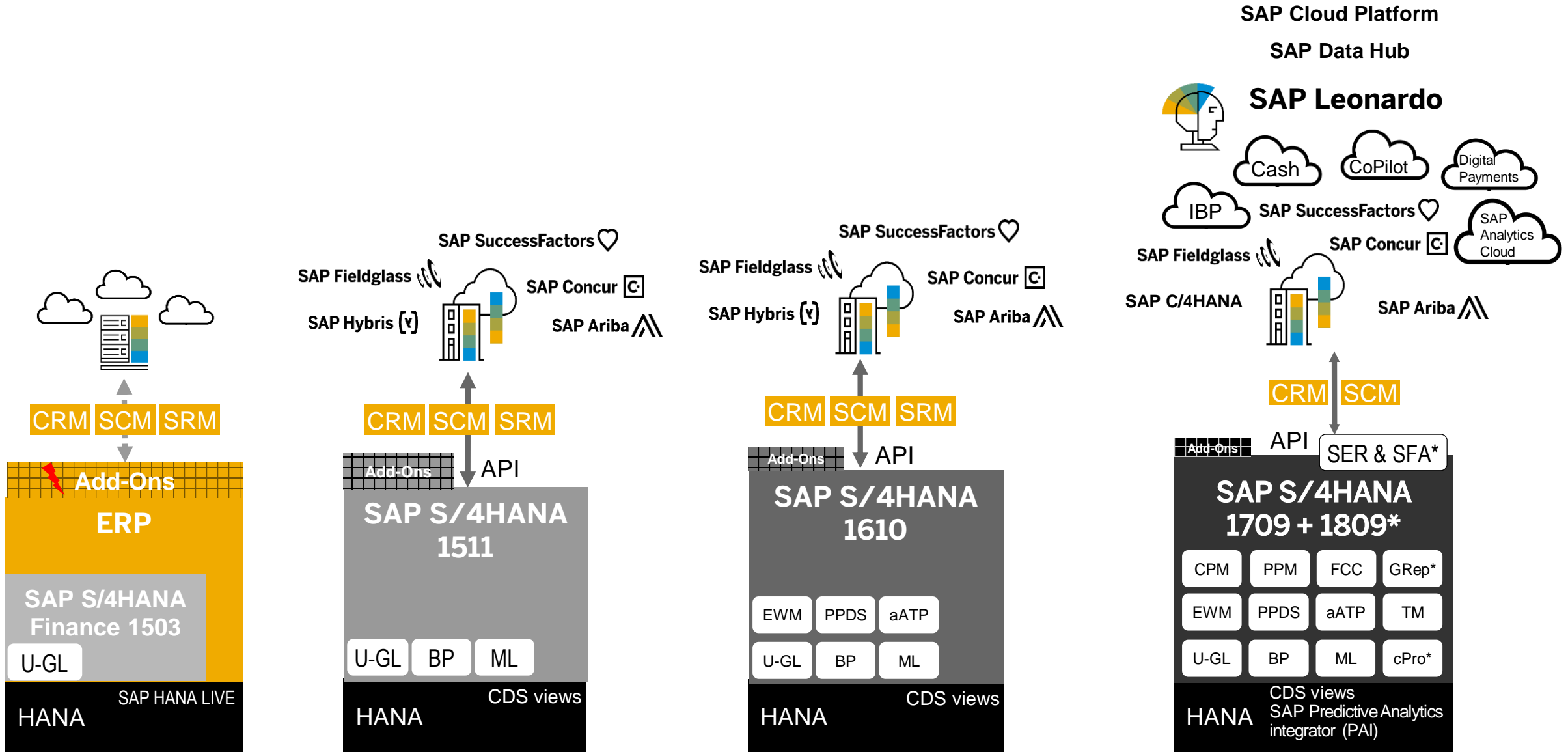
¹ Moved to SAP S/4HANA Core

² New in 1709

³ New in 1809

What's New in SAP S/4HANA Architecture and Components

The evolution of SAP S/4HANA – Architecture



What's New in SAP S/4HANA Architecture and Components

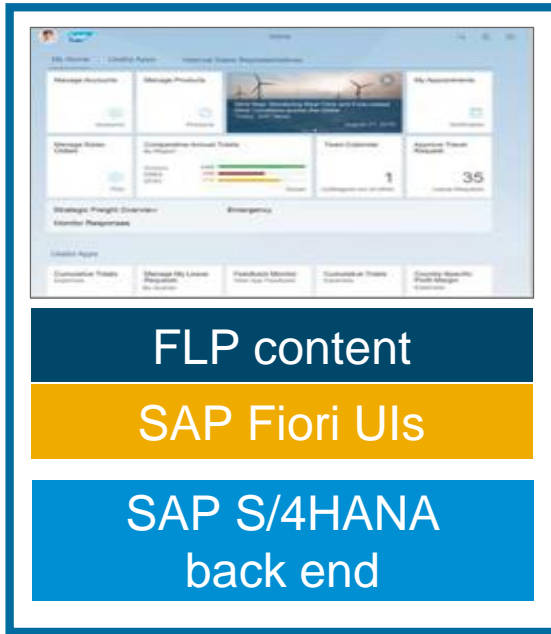
SAP Fiori landscape deployment options



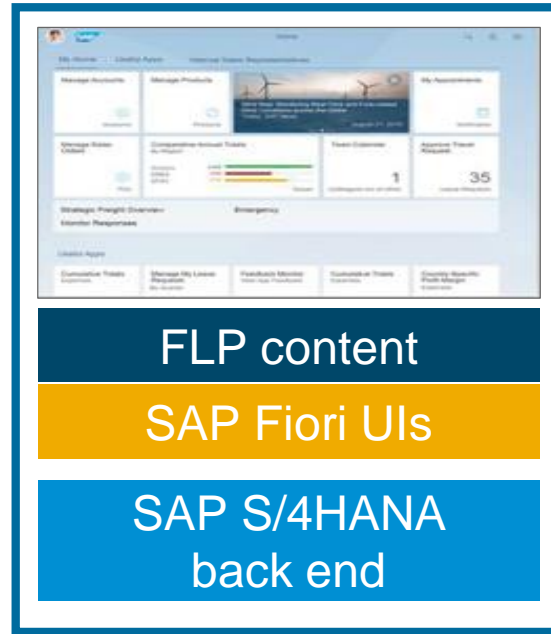
Best Practice: Embedded deployment of SAP Fiori front-end server (FES)

Exceptional alternatives: [SAP Fiori Deployment Options and System Landscape Recommendations](#)

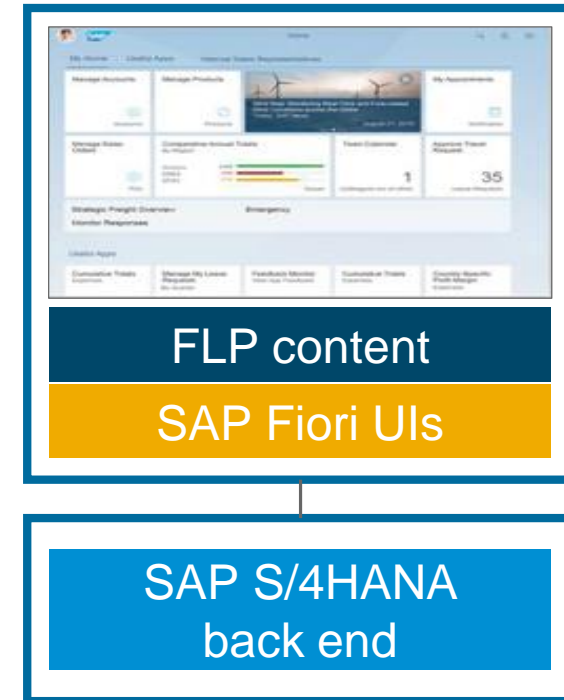
SAP S/4HANA Cloud
Cloud only



SAP Fiori for SAP S/4HANA
Embedded FES

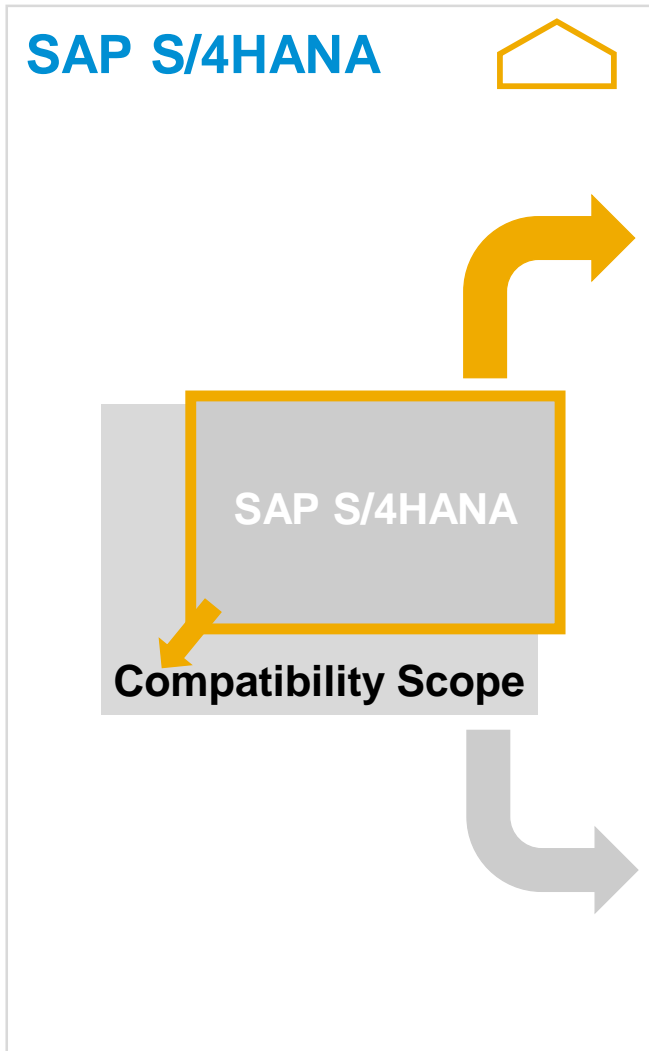


SAP Fiori for SAP S/4HANA
Hub FES



What's New in SAP S/4HANA Architecture and Components

SAP S/4HANA – Release and maintenance strategy



Release & Maintenance Strategy

Shipments

- **One release per year** and some minor **feature deliveries** until succeeding release is available
- **5y mainstream maintenance planned for each release** afterwards entering customer-specific maintenance
- **No deviations** from existing **SAP release and maintenance strategy**

Compatibility Packs

- Through the Compatibility Packs, SAP provides customers with a limited use right to **run certain classic SAP ERP solutions on SAP S/4HANA** installations.
- This use right expires on **Dec 31, 2025**.
- The use right does not apply for side-by-side SAP ERP installations.
- Technically, all Compatibility Pack solutions are part of the SAP S/4HANA shipment w/o additional installations.
- For more information see SAP Note [2269324](#).
- A new on-premise HCM option based on SAP ERP HCM is planned for 2023 with maintenance planned at least through 2030.

SAP CoPilot – SAP's digital assistant and bot integration hub



Humanized next-gen UX with a conversational UI using natural language processing functionality



Business context awareness understanding the business situation and pro-actively suggesting solutions



Self-learning system using machine learning functionality to gain knowledge based on historical data and experience



Cross-applications with one personality and one memory across all SAP



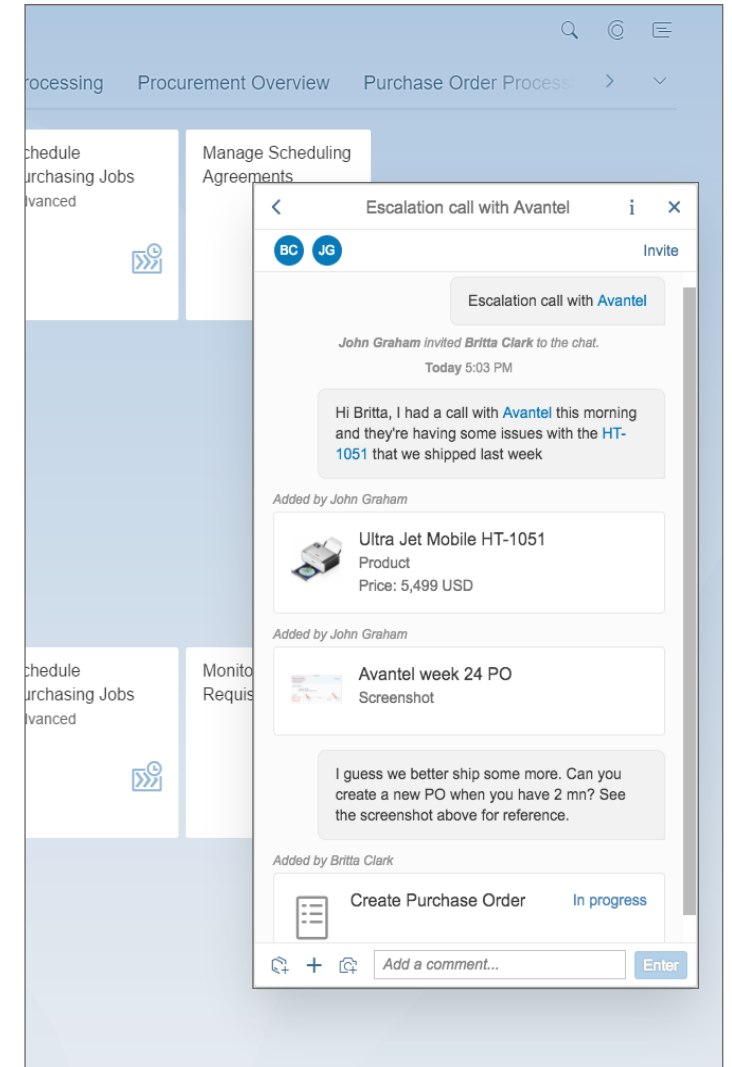
Open and extensible for integration to SAP and non-SAP solutions
Enabling our customers and partners to extend CoPilot skills through bots, agents, and APIs

Digital Assistant

Notes and Screenshots

Recognizing Business Objects

In-Context Chat:



This is the current state of planning and may be changed by SAP at any time without notice.

SAP S/4HANA migration cockpit – Speeding time-to-value

The next-generation data migration software embedded in SAP S/4HANA

- Highly simplified for SAP applications as data sources
- Guided procedure takes users through the migration process: easy and safe
- No programming by the customer required
- Flexible for integration of custom business data including data transformations
- Included in SAP S/4HANA license and shipment
- Made for migrating data from SAP and non-SAP sources into SAP S/4HANA (on-premise) and SAP S/4HANA Cloud

Migration Objects	Notifications	Settings	
Filter: All	Open	Activate	Deactivate
Status	Status Text	Name	
Started	Started	G/L open item	
Started	Started	General task list	
Started	Started	Inspection method	
Started	Started	Inspection plan	
Started	Started	Internal order	
Started	Started	Maintenance item	
Started	Started	Maintenance plan	
Started	Started	Master inspection characteristic	
Started	Started	Material	

Select your required migration objects

File Name	Description	Size	Last changed by	Last changed on
20160601_CUSTOMER_data_demo...		1.93 KB	_SAPD02842	06/01/2016 14:08

Priority	Description	Priority	Created on
Warning	Test migration Z_CUSTOMER_056: no extended validations, no updates in receiver system	Warning	06/01/2016...
Warning	Customer KH0002 is from an EU country, enter a VAT registration number	Warning	06/01/2016...

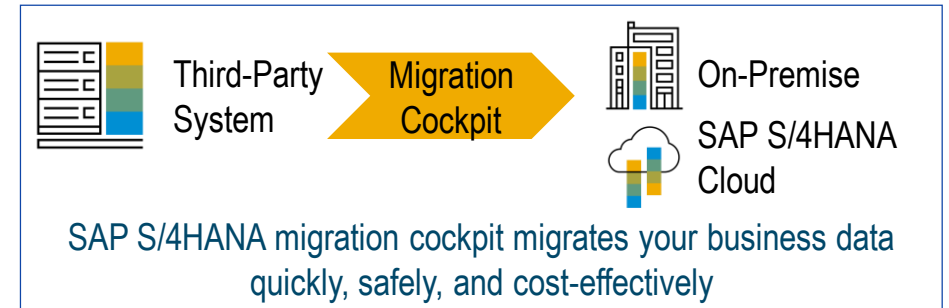
Key SAP Notes

[2481235](#) – SAP S/4HANA Migration Cockpit – restrictions and extensibility of pre-delivered migration objects

[2537549](#) – Collective note and FAQ for SAP S/4HANA migration cockpit

Further information

- [Standard overview presentation](#)
- [Migration Cockpit in SAP Community](#)



Predefined SAP S/4HANA-specific migration content facilitates and accelerates your data migration

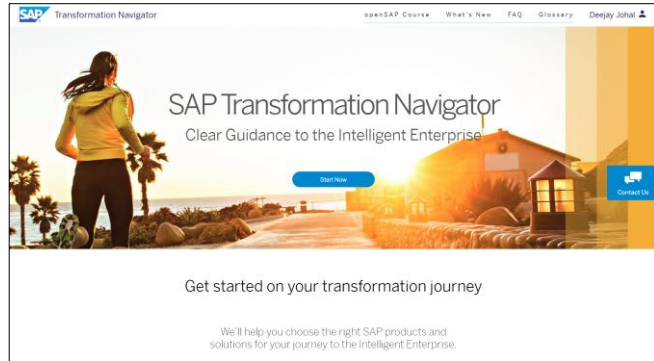
- Preconfigured content and mapping for available migration objects, e.g. customers
- Predefined templates for each object
- Automated mapping between template and target structure
- Migration programs are generated automatically

Customer-specific migration content can be flexibly included

- Integration of customer-built objects
- Customer-specific enhancements to SAP standard objects (e.g. add new fields)

SAP Transformation Navigator in a nutshell: clear guidance, not options!

Overview



Adoption

THE CHALLENGE

Our customers asked for clear guidance on their SAP S/4HANA-centric world:

- Which products do I need?
- What is the business value?
- How does integration work?
- What about the licenses?
- What services do you offer?

Customers heard different answers, opinions, and options.

They challenged us:

Give us guidance, not options!

Demo

THE APPROACH

We start with our customers' current product map and recommend products based on their business and IT strategies.

Business is changing rapidly. Customers can combine new capabilities across all industries to re-imagine business models, business processes, and work.

Transformation needs a business case: We connect our recommendations to tangible business value.

The Road Ahead

Appendix

THE SOLUTION

SAP Transformation Navigator is a free self-service available for all customers and partners.

It analyzes the current product map and produces a recommended product map as a starting point for an in-depth engagement.

It generates a set of 3 guides (business, technical, transformation) with detailed information about products, licenses, integration, services, and business capabilities.

Check for Details in s4h15 openSAP course Unit 1.1
"Overview of the SAP Transformation Navigator"

<http://support.sap.com/stn>

Thank you.

Contact information:

open@sap.com

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Week 1: Fundamentals and Technical Tooling

Unit 3: What's New in SAP S/4HANA Technical Tooling for Conversion

What's New in SAP S/4HANA Technical Tooling for Conversion

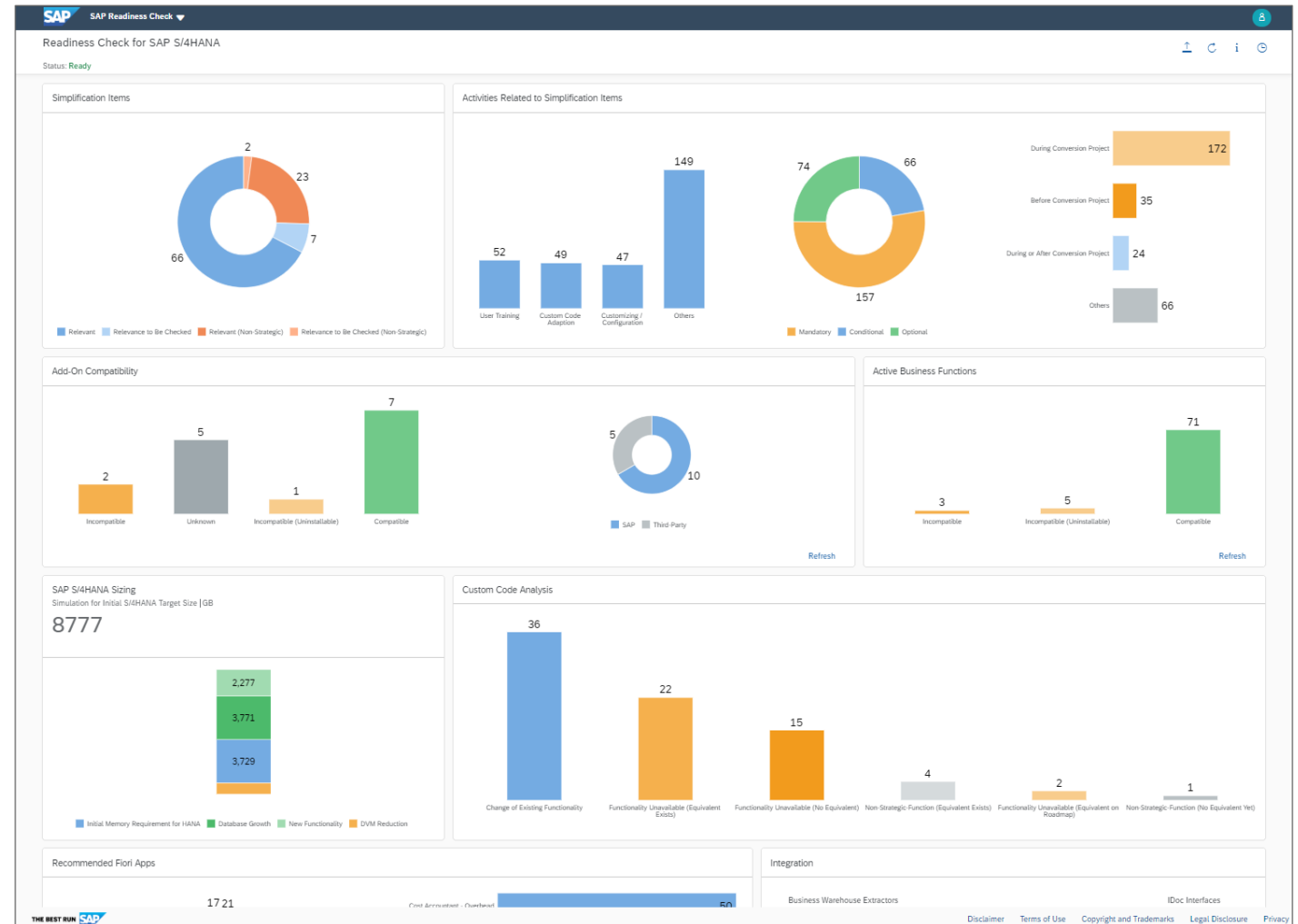
SAP Readiness Check 2.0

What's new?

- New and improved analyses to prepare you even better for SAP S/4HANA
- New **interactive** dashboard
- New **authorization** concept
- New **design** based on SAP Fiori 3.0

Benefits for our customers

- Even better project preparation due to extended functional coverage
- Interactive features let you organize preparation work more efficiently
- Easy access to results for your preferred implementation partner, by enabling you to provide and control access inside SAP Readiness Check

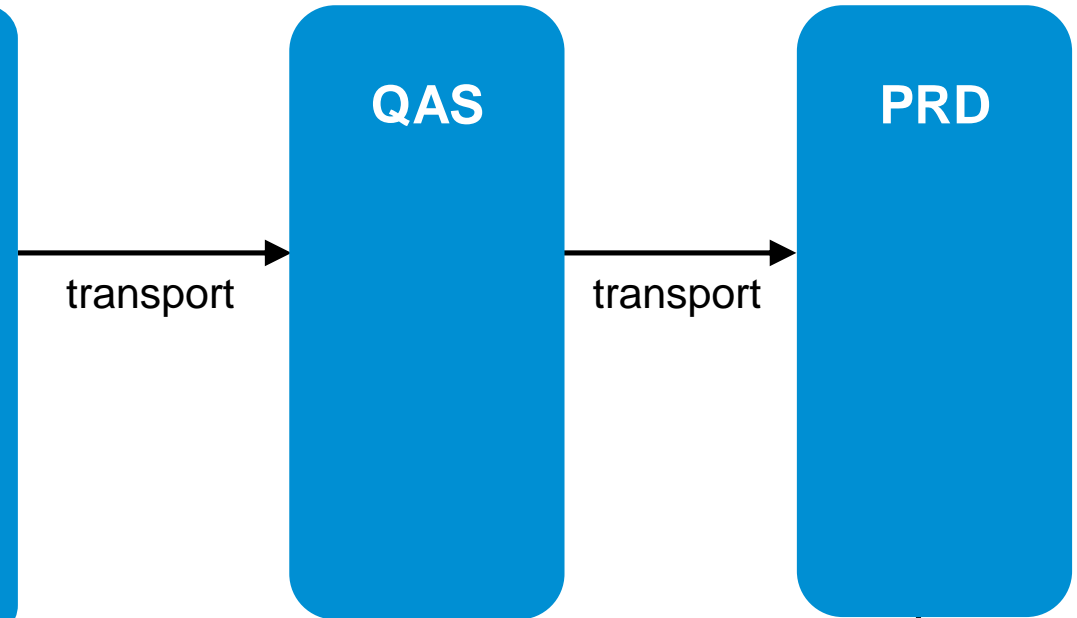


What's New in SAP S/4HANA Technical Tooling for Conversion

SAP Readiness Check 2.0 Notes to be applied

DEV		
APPLY *	NOTE TITLE	MIN. SW COMPONENT
2185390	Custom Code Analyzer	
1872170	S/4HANA Sizing	ST-PI 740SP02,700/710SP12
2399707	Simplification Item Check	
2745851	Business Process Analysis	
2612179	Data Volume Management	ST-PI 740SP01,700/710SP09
2769657	Enabling IDOC analysis	ST-A/PI 01S_700/01S_731
2758146	RC 2.0 & Next Gen BSR	
2502552	Enable Consistency Check	OPTIONAL 2187425-TCI_for_Customer.pdf

* always de-implement old note versions before implementing new versions

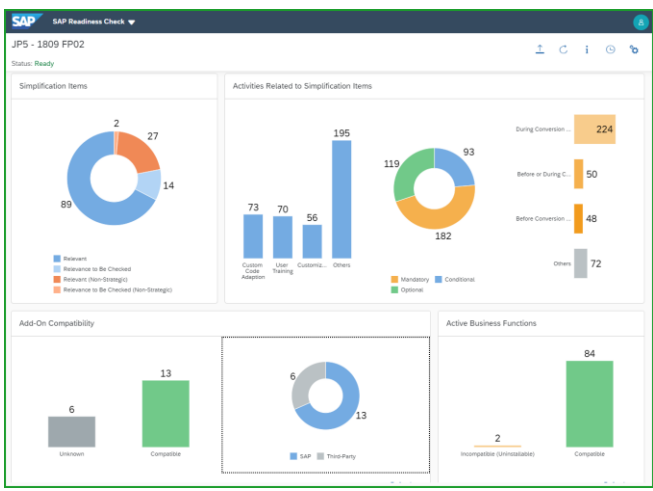


Custom Code

SE38:
SYCM_DOWNLOAD_REPOSITORY_INFO
S4HMigrationRepositoryInfoSID.zip

upload2

“Update Analysis”



Analysis Data

PROD CLIENT SE38:
RC_COLLECT_ANALYSIS_DATA
RC2AnalysisDataSID2019mmdd.zip

upload1 “Start New Analysis”

Readiness Check Application
<https://rc.cfapps.eu10.hana.ondemand.com>

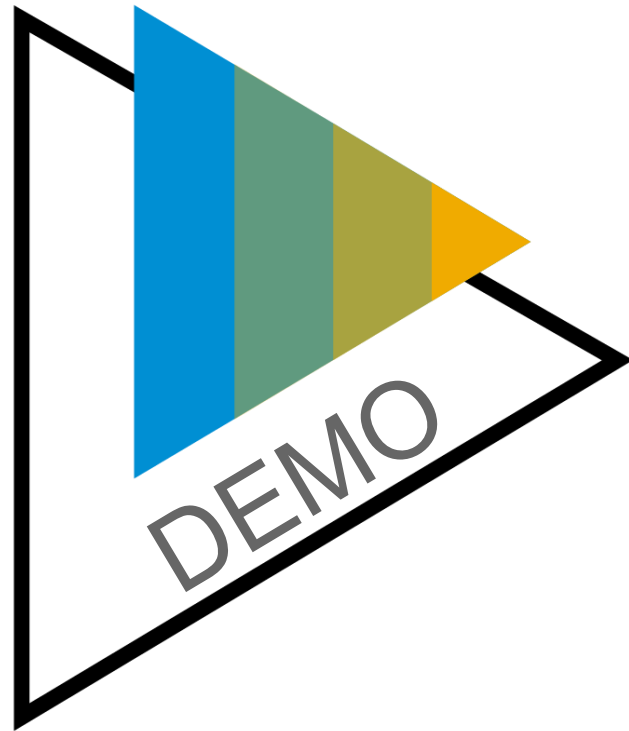
Ready

NOTE: SAP Solution Manager option is not available

SCN Blog [link](#)

What's New in SAP S/4HANA Technical Tooling for Conversion

Readiness Check 2.0



What's New in SAP S/4HANA Technical Tooling for Conversion

Platform coverage reduced for application server

SAP ERP ECC6 EHP4-8

SAP S/4HANA 1511-1709

- Windows
- Linux on x86
- AIX
- Linux on Power Little Endian
- ~~Linux on Power Big Endian~~
- ~~HP-UX on IA64~~
- Solaris on SPARC and on x86
- IBM I
- IBM z/OS
- Linux on IBM Z

SUM 2.0
SP03 or >

CONVERSION

OR

UPGRADE

SAP S/4HANA 1809

SAP ABAP Platform 1809

SAP_BASIS 7.53

SAP Kernel 7.73

SAP HANA 2.0 SPS 04 rev 33

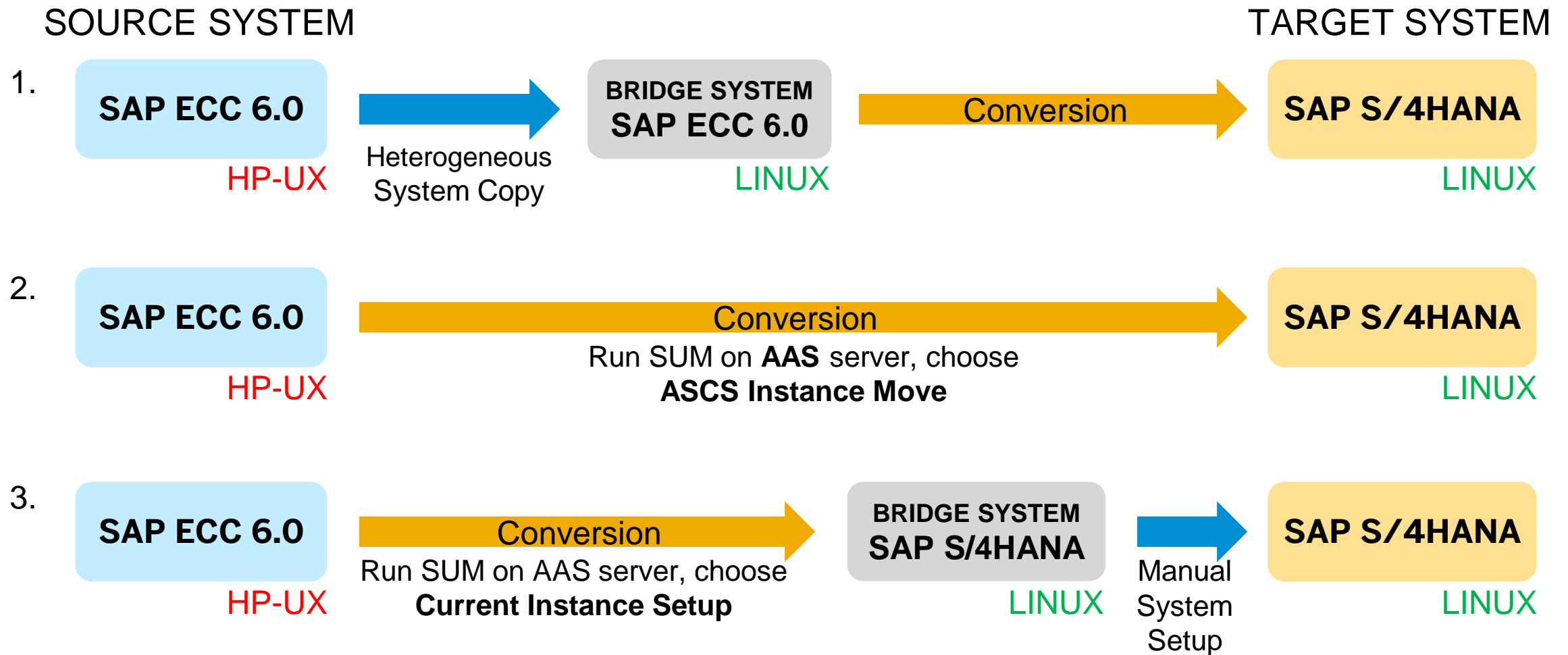
- Windows
- Linux on x86
- AIX
- Linux on Power Little Endian



SAP [Note 2620910](#) – SAP S/4HANA ... and SAP BW/4HANA 1.0:
Recommended Application Server Platforms
Also refer to [Product Availability Matrix](#)

What's New in SAP S/4HANA Technical Tooling for Conversion

Planning options on de-supported platform (such as HP-UX)

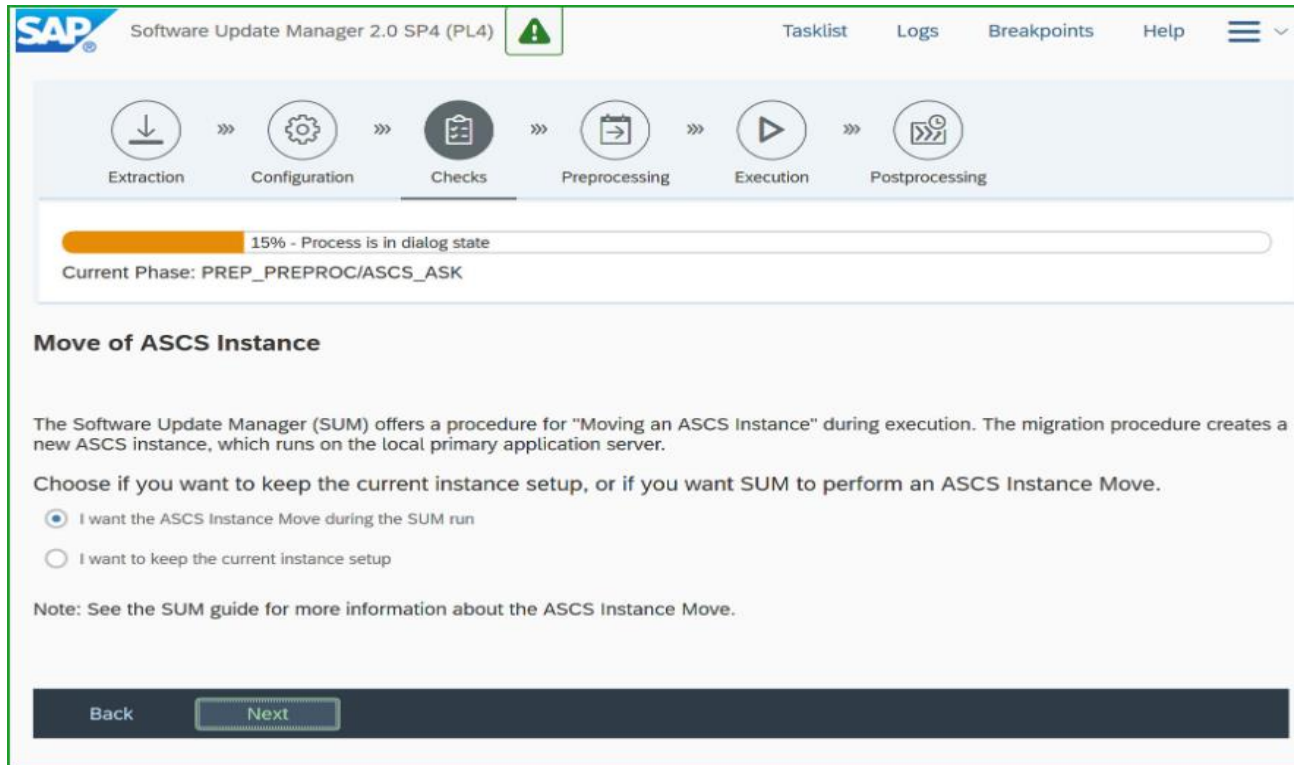


[SAP Note 2696472](#) – Upgrade/Conversion planning hints for de-supported platforms

What's New in SAP S/4HANA Technical Tooling for Conversion

ASCS instance move – Dialog in SUM

- If existing ASCS instance is running on a remote host



The screenshot shows the SAP Software Update Manager (SUM) interface. At the top, it displays 'Software Update Manager 2.0 SP4 (PL4)' and a warning icon. The navigation bar includes 'Tasklist', 'Logs', 'Breakpoints', and 'Help'. Below this, a progress bar shows '15% - Process is in dialog state' and 'Current Phase: PREP_PREPROC/ASCS_ASK'. The main content area is titled 'Move of ASCS Instance' and contains the following text:

The Software Update Manager (SUM) offers a procedure for "Moving an ASCS Instance" during execution. The migration procedure creates a new ASCS instance, which runs on the local primary application server.

Choose if you want to keep the current instance setup, or if you want SUM to perform an ASCS Instance Move.

I want the ASCS Instance Move during the SUM run

I want to keep the current instance setup

Note: See the SUM guide for more information about the ASCS Instance Move.

At the bottom, there are 'Back' and 'Next' buttons.

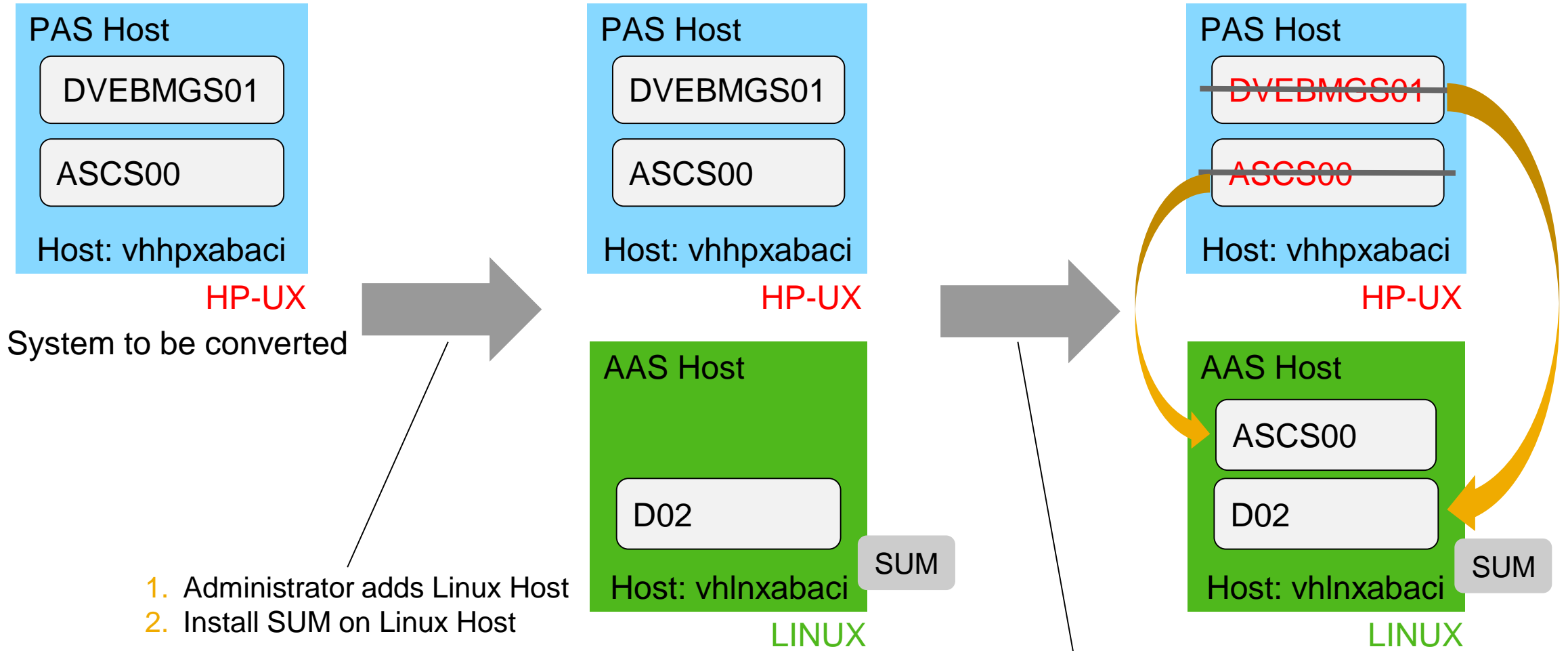


SCN Blog: [ASCS instance move: use SUM to switch your ASCS](#)

- The new local ASCS instance will reuse the shadow instance number (changeable in expert mode)
- The SUM will apply a new temporary license as the MSGSERVER host has changed

What's New in SAP S/4HANA Technical Tooling for Conversion

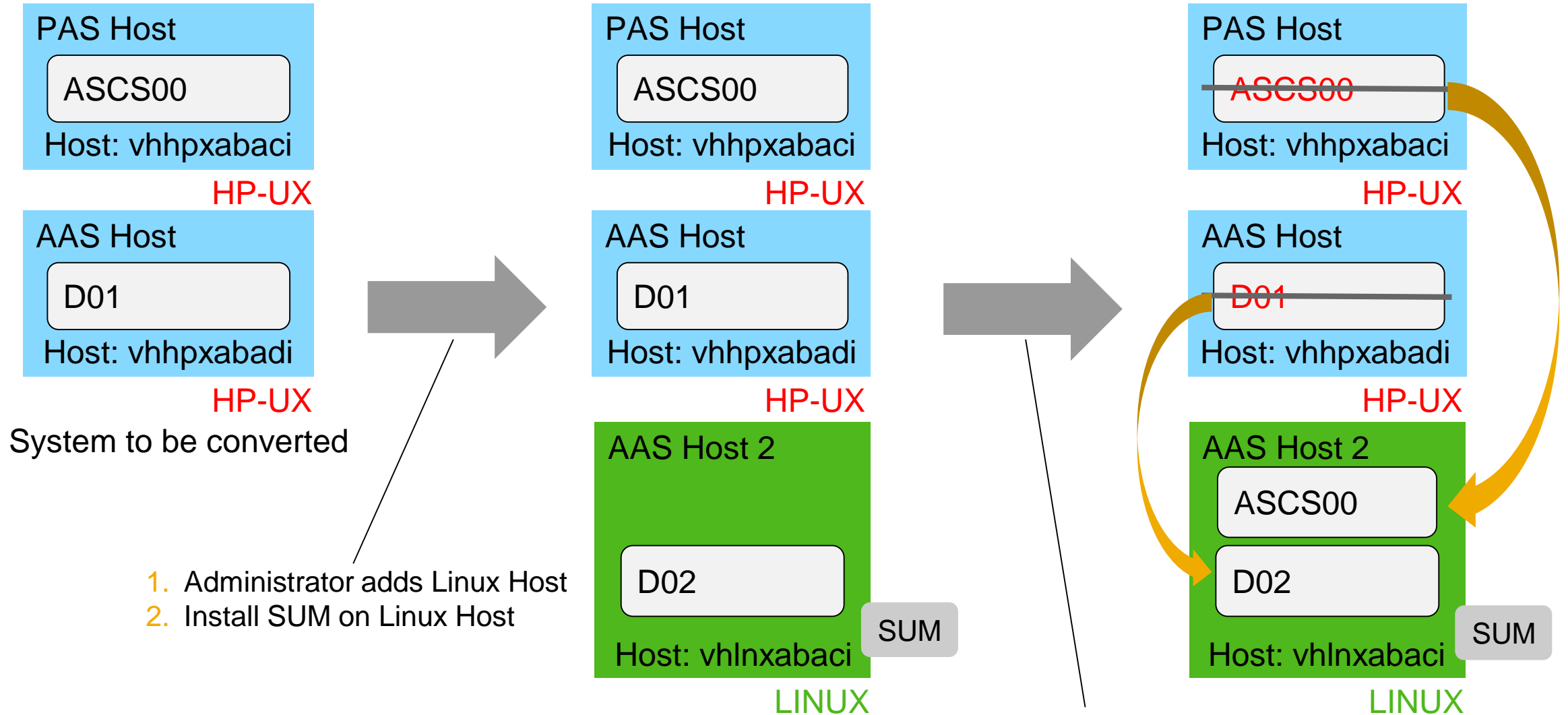
ASCS on PAS host



SUM tool moves ASCS to Linux Host
(old instance to be removed manually)

What's New in SAP S/4HANA Technical Tooling for Conversion

ASCS separated



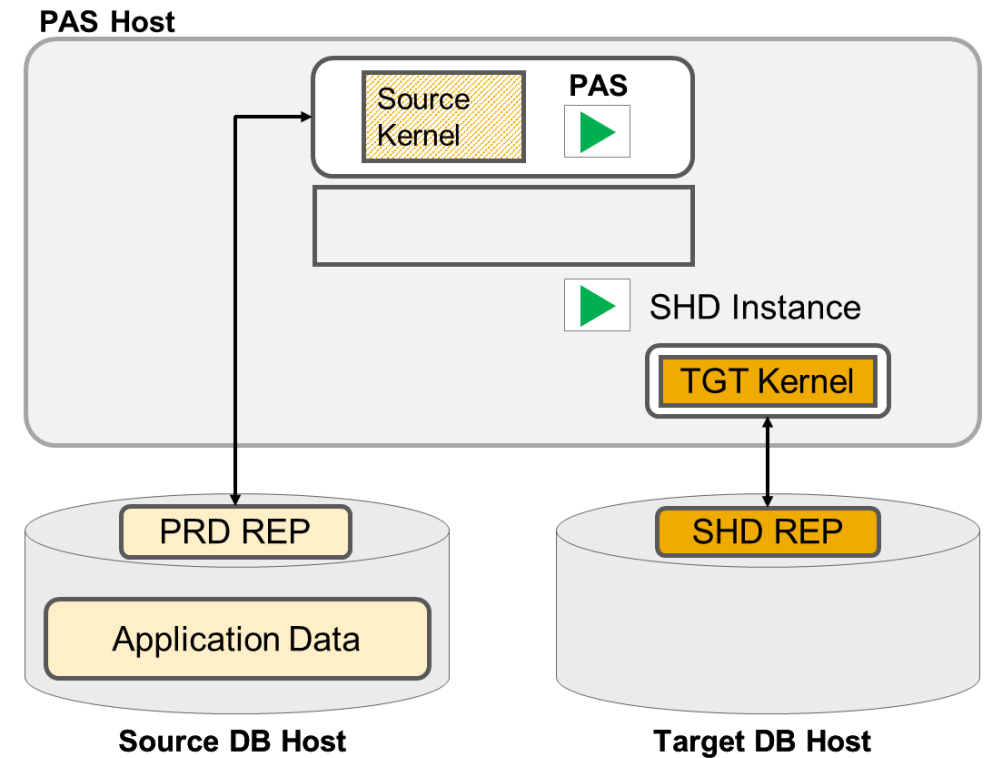
SUM tool moves ASCS to Linux Host
(old instance to be removed manually)

What's New in SAP S/4HANA Technical Tooling for Conversion

Shadow on target for DMO case of conversion

SAP lab preview

- SUM 2.0 SP06 is to be used for a conversion to SAP S/4HANA 1909
- SUM 2.0 SP06 will create the shadow repository on the target database for conversion to 1909
- There is no choice (and no need) to switch on this technology; SUM simply uses it
- Same SUM SP-version with older conversion targets will not use shadow on target
- With this, the requirements for source database software level (and OS) are less strict
- Unicode requirement for source system remains!
- No need to adapt table space for the source database
- With SUM 2.0 SP06, downtime-optimized DMO is *not yet* supported for targeting 1909 (but supported for targets 1809 and lower)



What's New in SAP S/4HANA Technical Tooling for Conversion

Simplification item check

The duration of the pre-check report **/SDF/RC_START_CHECK** background job is relative to the size of the database, nature of data, hardware, operating system & database used, and may take several hours for e.g. with MSEG table over 500 million records. The program is run again twice by SUM tool during conversion.

JobName	Spool	Job doc	Job CreatedB	Status	Start date	Start time	Duration(sec.)
RC_NEW_CHECK_IN_JOB	H		S4HUPGR	Finished	20.10.2018	15:28:03	31.457

To reduce the runtime of report:

- Check database parameters & update database statistics
 - Do performance evaluation using ST12 traces and create database indexes if necessary
- Use the Notes below for guidance:
- [Note 2679566](#) – S4HANA MM-IM data model conversion
 - [Note 2678215](#) – Poor Performance in RUN_S4H_SIF_CHECK_INIT using Oracle DB
 - [Note 2753888](#) – Increase Precheck performance: skip KALNR-check
 - [Note 2646649](#) – Performance improvements of generated methods of class CLS4SIC_MM_IM_SI1
- If the job is taking too long, check with experienced DBA to identify the bottlenecks and then, if necessary, create OSS message for SAP using component **MM-IM-GF-MIG**

Thank you.

Contact information:

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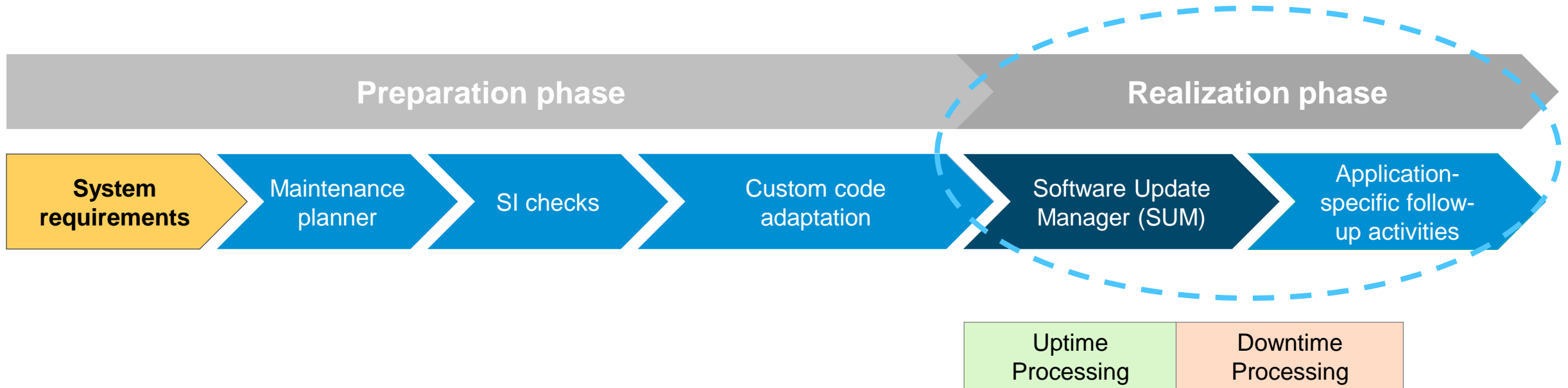


Week 1: Fundamentals and Technical Tooling

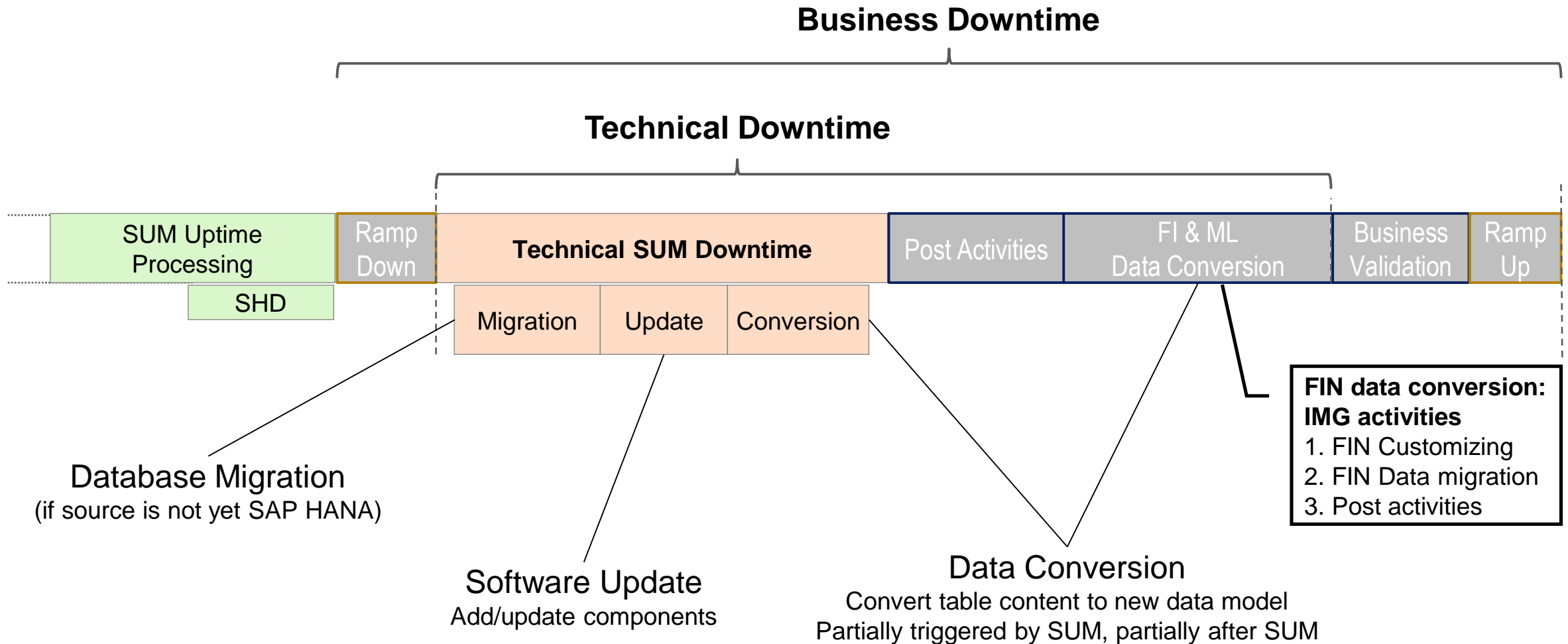
Unit 4: Advanced Topics in SUM: Tuning to Reduce Downtime

Advanced Topics in SUM: Tuning to Reduce Downtime

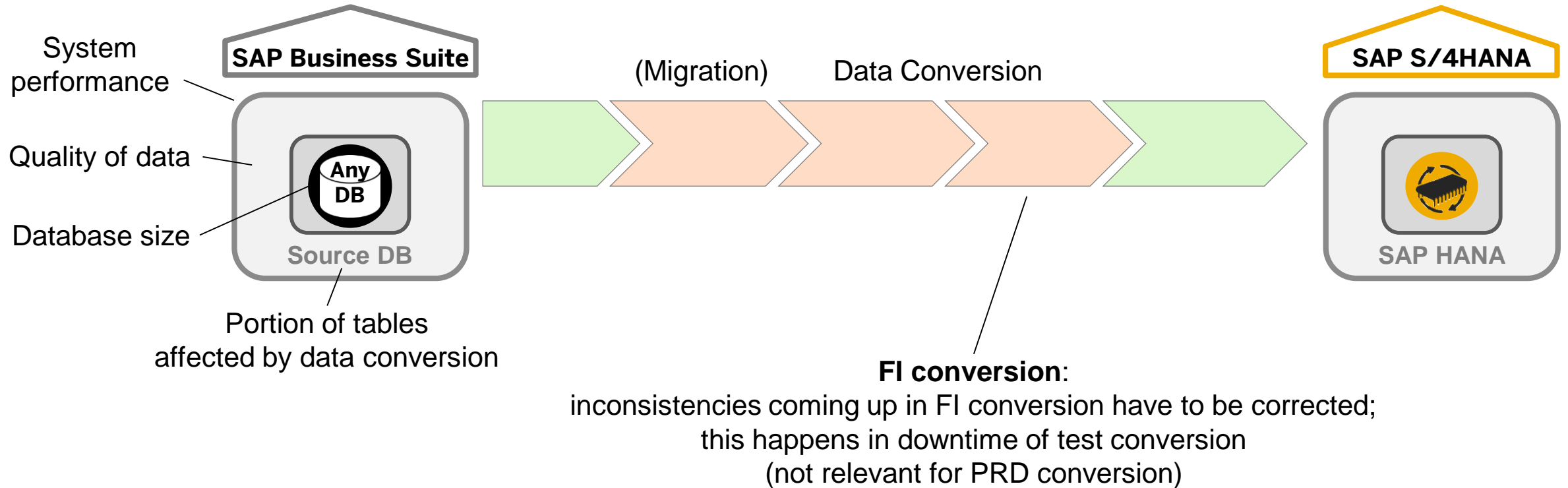
Introduction



Main conversion steps with focus on technical downtime



Properties of the source system that impact the technical downtime

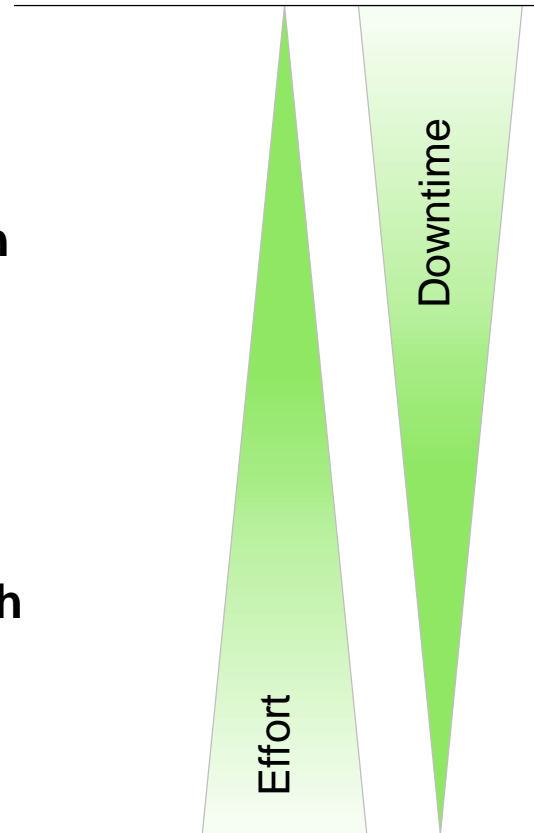


Second run is always faster → decide on approach only after second run

Advanced Topics in SUM: Tuning to Reduce Downtime

Downtime-optimization approaches

- **Standard approach**
using Software Update Manager (SUM)
with several optimizations
- ***Downtime-optimized conversion approach***
uses SUM as well, and reduces downtime
by moving data conversion and migration
partly to uptime (currently only piloted)
See SAP Note 2293733
- ***Near-Zero Downtime Technology approach***
allows further reduction of downtime
by executing the conversion on a clone;
it is a consulting service project (aka NZDT)
See SAP Note 693168

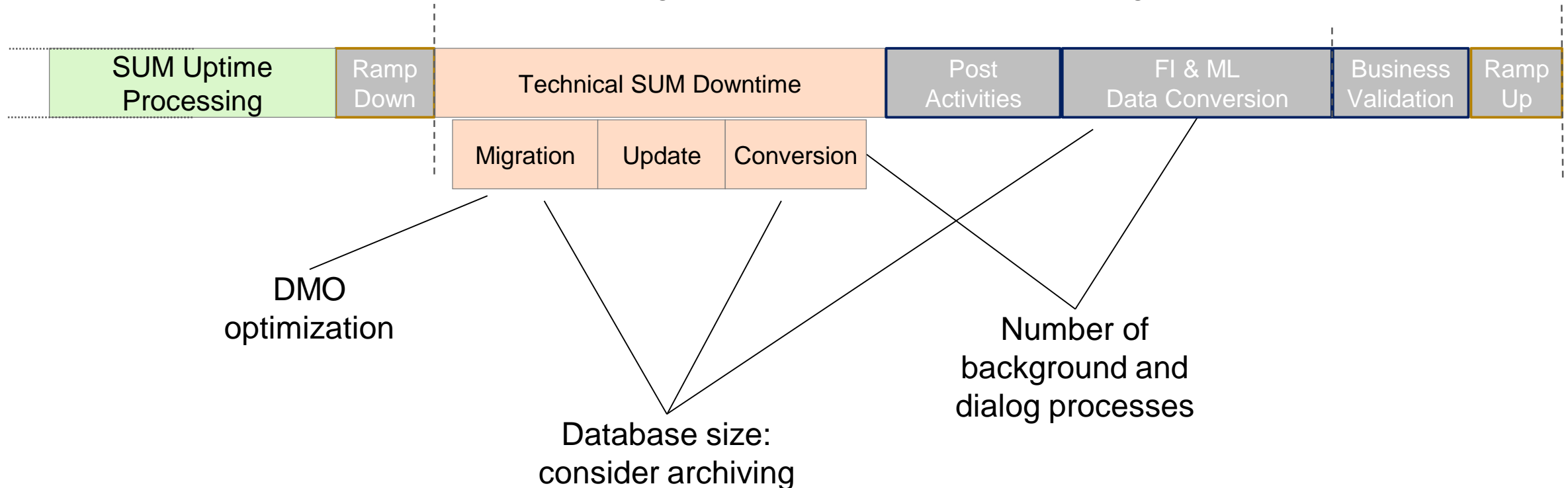


Decision about approach depends on several factors and should be taken after a **migration planning workshop** (service component of SAP Value Assurance for SAP S/4HANA)

Advanced Topics in SUM: Tuning to Reduce Downtime

Downtime-optimization for standard approach

- DMO optimization: see blog in SAP Community: <https://blogs.sap.com/?p=135725>
- SAP Note 2351294 – SAP S/4HANA System Conversion / Upgrade: Measures to reduce technical downtime
- SAP Note 1616401 – Parallelism in the Upgrades, EHPs and Support Packages implementations

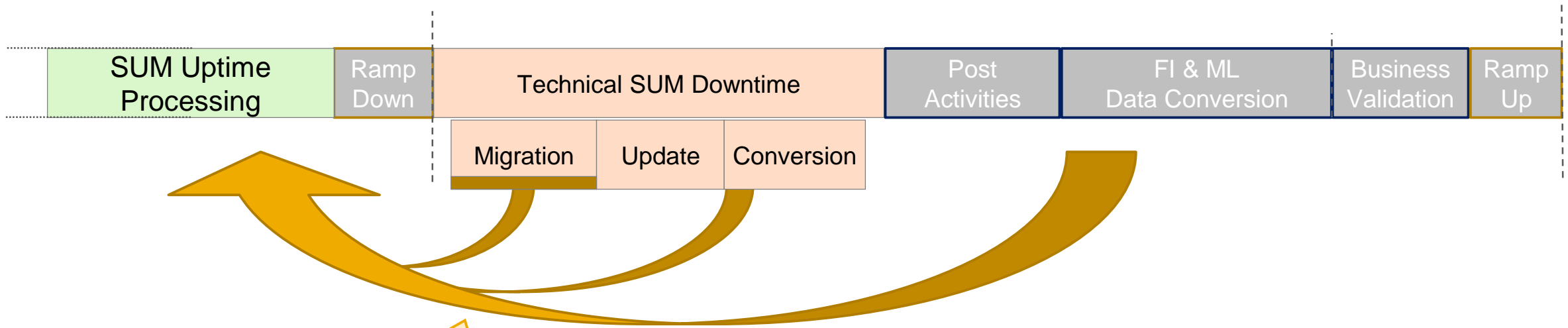


Advanced Topics in SUM: Tuning to Reduce Downtime

Downtime-optimized conversion approach

Lab Preview

- **Table conversion** moved to uptime processing
- **Field conversion** moved to uptime processing (KONV and VBFA tables)
- **Uptime migration** for selected big application tables (without data conversion)

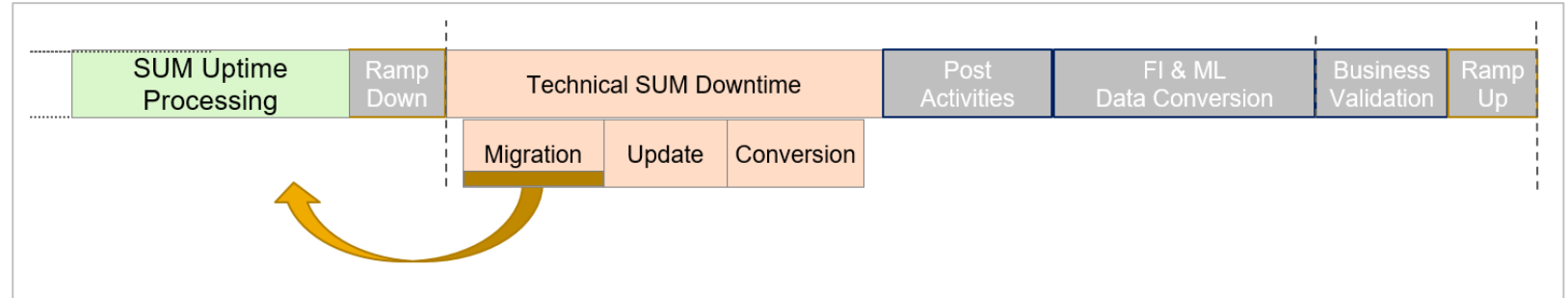


Conversion partially moved to uptime for

- FIN and Material Ledger (MM-ML) & Inventory Management (MM-IM)
- KONV and VBFA tables

Migration is only relevant for source systems on non-SAP HANA database

Uptime migration – Migrate selected big application tables in uptime



- New: uptime migration option (aka downtime-optimized DMO)
- Option is available with SUM 2.0 SP06 (September 2019) with restrictions, see SAP Note 2442926
- Applies only for source systems on non-SAP HANA database (where DMO applies)
- Manually select those big tables for uptime migration that are not affected by the new data model
- A delta replay mechanism ensures that any uptime changes (by end users) are considered
- Option is offered on second SUM dialog

0% - Process is in dialog state

Current Phase: MOD_SELROADMAP/SELECT_ROADMAP

Scenario Strategy

Specify the scenario strategy

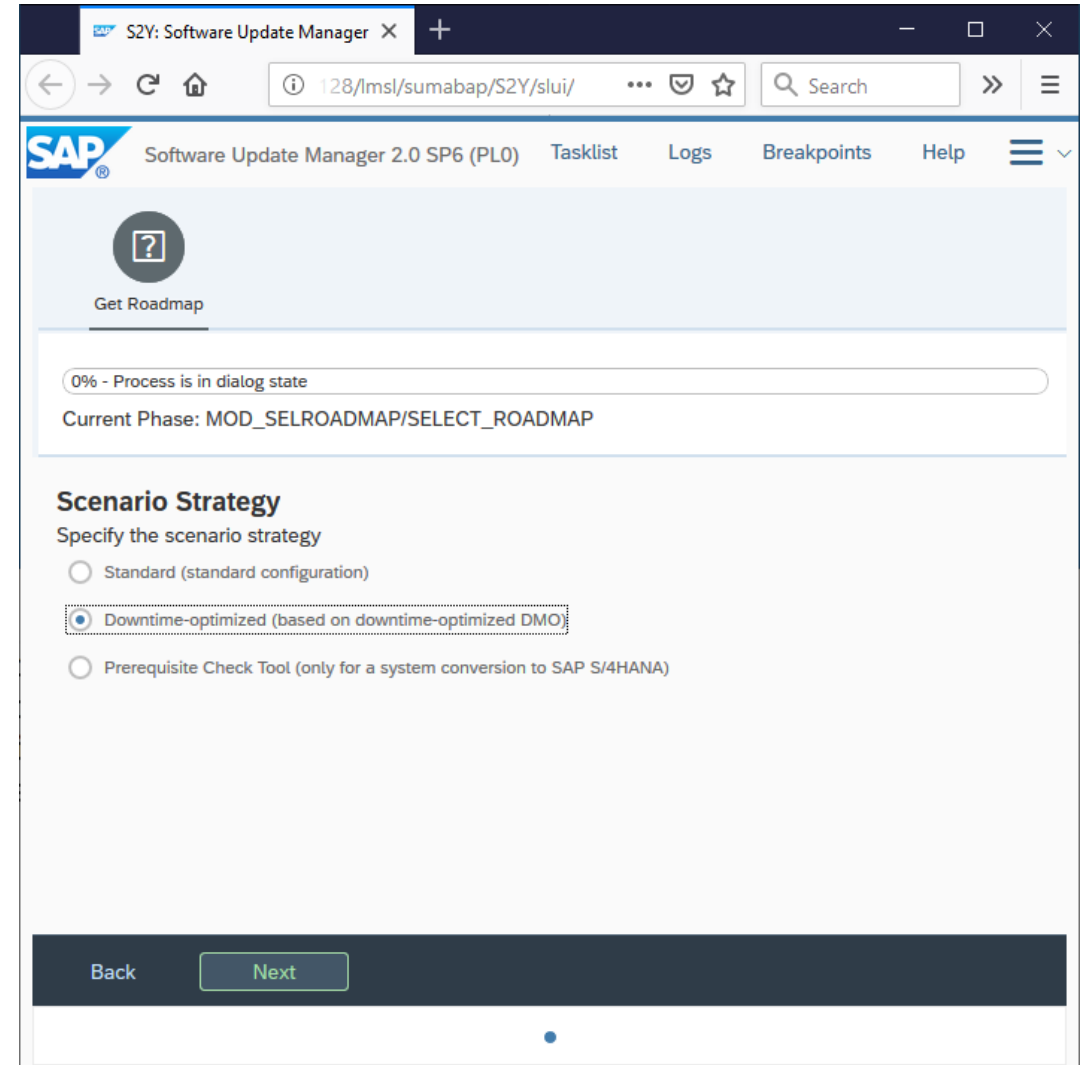
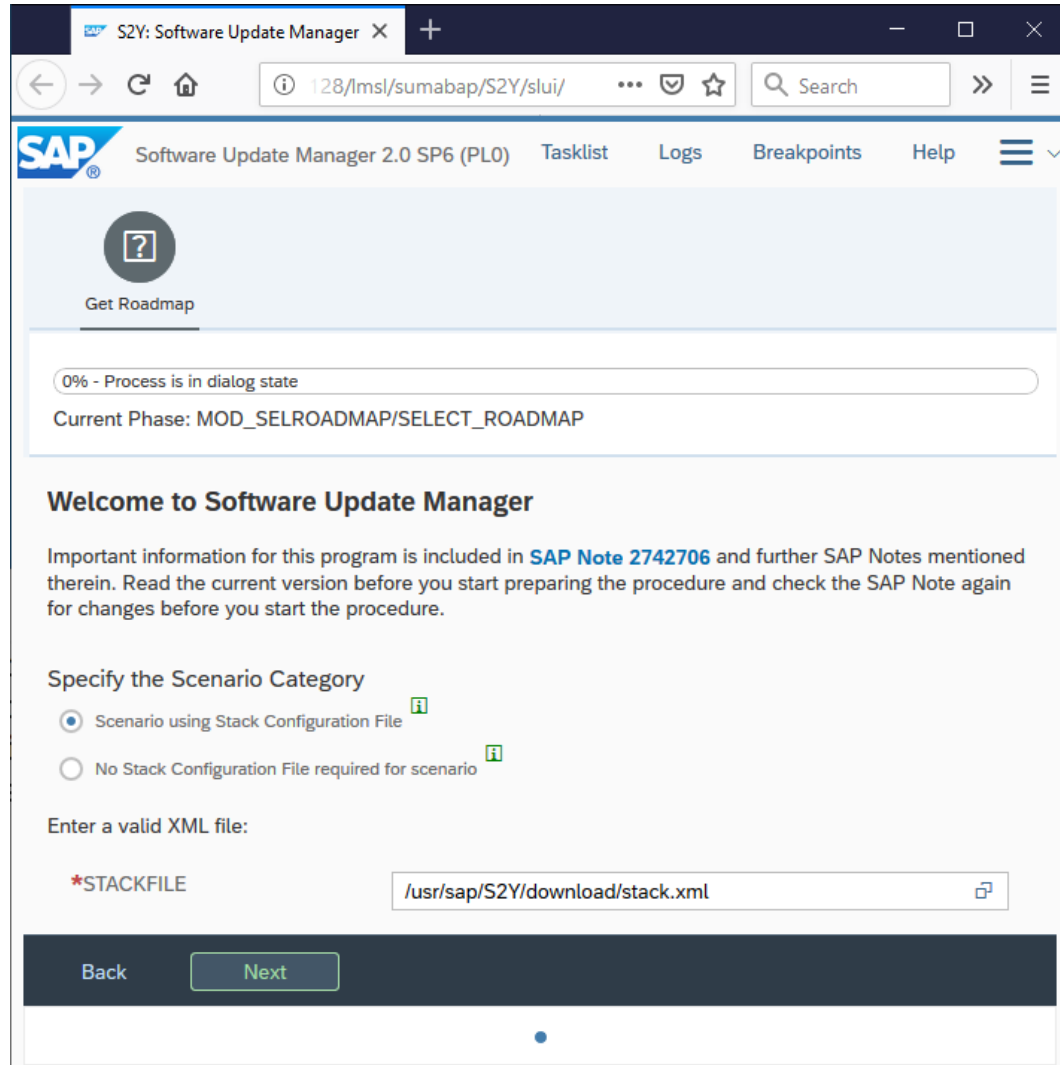
Standard (standard configuration)

Downtime-optimized (based on downtime-optimized DMO)

Prerequisite Check Tool (only for a system conversion to SAP S/4HANA)

Advanced Topics in SUM: Tuning to Reduce Downtime

Uptime migration – Screen sequence



Thank you.

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Week 1: Fundamentals and Technical Tooling

Unit 5: Authorization Adjustments Due to System Conversion

Authorization Adjustments Due to System Conversion

Simplifications related to authorizations

What do I need to do?

- Authorization objects are replaced / obsolete / newly introduced
- Changes in the authorization objects fields
- Changes in behavior of non-mandatory fields
- Transactions are obsolete / replaced

SAP ERP

	TCODE	AUTH OBJ
Accounts Payable: Master Data	FK01	B_BUPA_RLT RLTYP = FLVN00
Accounts Receivable: Master Data	FD01	B_BUPA_RLT RLTYP = FLCU00

Simplification List



Accounts Payable: Master Data	BP	B_BUPA_RLT RLTYP = FLVN00
Accounts Receivable: Master Data	BP	B_BUPA_RLT RLTYP = FLCU00

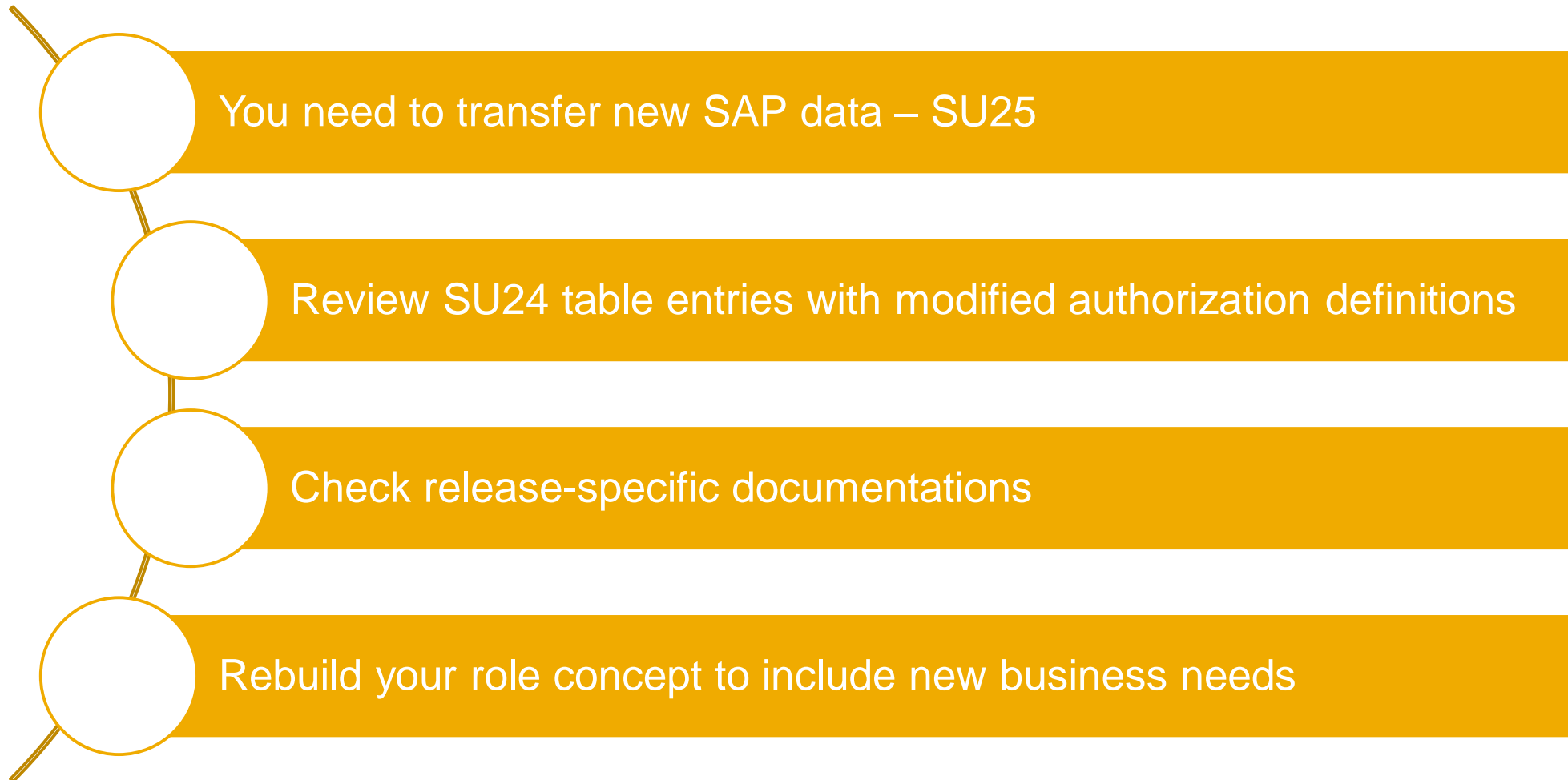
SAP S/4HANA



Authorization for SAP Fiori apps for catalogs, groups, and roles are discussed in Week 2 Unit 4

Authorization Adjustments Due to System Conversion

Simplifications related to authorizations



Activities to review in preparation for system conversion

SEQUENCE OF STEPS IN SAP ERP:

Repair inconsistent data
SU24_AUTO_REPAIR
[SAP Note 1539556](#)

Create backup
transport – **SU25**,
step (3) and export it

Create backup
transport for **PFCG**
profiles and export it

Initialize timestamps
SU25_INITIALIZE_TSTMP
[SAP Note 1599128](#)

Read old status and
merge with new data.
Use 'Expert Mode for
Profile Generation' in
PFCG

SU25

Profile Generator: Upgrade and First Installation

Information about this transaction Expert Mode for

Actions to be Performed

- Installing the Profile Generator
 - 1. Initially Fill the Customer Tables
- Postprocess the Settings After Upgrading to a Higher Release
 - 2a. Automatic Comparison with SU22 Data
 - 2b. Modification Comparison with SU22 Data
 - 2C. Roles to Be Checked
 - 2D. Display Changed Transaction Codes
- Transport Intf.
 - 3. Transport the Customer Tables**
- Adjust the Authorization Checks (Optional)
 - 4. Check Indicators in Applications (SU24)
 - 5. Deactivate Authorization Object Globally
 - Transaction Start Authorization Check (SE97)
 - Comparison of Switchable Authorization Checks (SACF)
 - Comparison of Generic Whitelists (SLDW)
- Manually Adjust Selected Roles
 - Create Roles from Manually Created Profiles
 - Generate Standard Role SAP_NEW
 - Generate Standard Role SAP_APP
- General Maintenance for Default Values
 - Clean Up Application Header Data
 - Consistency Check for Default Values

Authorization Adjustments Due to System Conversion

Repair inconsistent data

Select all available options

Automatic Repair of Authorization Default Values with Errors

Important Note
Read SAP Note 1539556 (section A) before you start the report.

Standard Selection

Application Name to

- Delete SU24 default values without check indicator ref.
- Repair bad field list in SU24 default values
- Delete invalid SU24 check indicators
- Complete missing modification flags in SU24 data
- Delete Invalid Default Values
- Remove Incorrectly-Defined SAP Organizational Level
- Add Missing Transaction Start Authorizations
- Verify defaults with OrgLevels

Test Mode, No Update

Automatic Repair of Authorization Default Values with Errors (SU24)

Report Environment
System (Client) : ERP (001)
Date / Time : 01.07.2019 / 21:07:04
User : S4HCONV

Selected Clean-Up Options:
Delete SU24 default values without check indicator ref.
Repair bad field list in SU24 default values
Delete invalid SU24 check indicators
Complete missing modification flags in SU24 data
Delete Invalid Default Values
Remove Incorrectly-Defined SAP Organizational Level (\$CLASS)
Add Missing Transaction Start Authorizations

Current Work Step	Result of Work Step
Clean Up Unwanted Organizational Level \$CLASS (SU22)	Organizational level value \$CLASS will be reset for CGESCIP TR (S_USER_GRP)
Clean Up Unwanted Organizational Level \$CLASS (SU22)	Organizational level value \$CLASS will be reset for D70203FB90A39CD996B19F2FD65E08 HT (S_USER_GRP)
Clean Up Unwanted Organizational Level \$CLASS (SU22)	Organizational level value \$CLASS will be reset for PC00_M45_OVER TR (S_USER_GRP)
Clean Up Unwanted Organizational Level \$CLASS (SU24)	SU24 data does not contain any organizational level values for the field CLASS (desired status)
Reset unwished orglevel \$CLASS (PFCG)	Roles do not contain any organizational level values for the field CLASS (desired status)
Clean Up Unwanted Organizational Level \$CLASS	Analysis completed
Add Missing Transaction Start Authorizations	Analysis started
Add Missing Transaction Start Authorizations	Transaction S_ABA_72000157, check indicator for object S_MI_CCMS set to "Proposal Yes"
Add Missing Transaction Start Authorizations	Transaction S_ABA_72000157: Default values for object S_MI_CCMS inserted
Add Missing Transaction Start Authorizations	Transaction S_BCE_68000384, check indicator for object S_DX_MAIN set to "Proposal Yes"
Add Missing Transaction Start Authorizations	Transaction S_BCE_68000384: Default values for object S_DX_MAIN inserted
Add Missing Transaction Start Authorizations	Transaction AISF, check indicator for object J_B_TRANSB set to "Proposal Yes"

[SAP Note 2505291](#) has latest version of report **SU24_AUTO_REPAIR**



Check [SAP Note 1539556](#) – FAQ | Administration of authorization default values

Authorization Adjustments Due to System Conversion

Read old status and merge with new data

The screenshot shows the 'Change Roles' interface in SAP. The 'Authorizations' tab is selected. The 'Role' section shows 'SAP_PS_SALES_PRICING' with a description 'Calculate Sales Price'. The 'Information About Authorization Profile' section shows 'Profile Name: T_P0920699' and 'Profile Text: Profile for role SAP_PS_SALES_PRICING'. The 'Edit Authorization Data and Generate Profiles' section has 'Expert Mode for Profile Generation' selected. A dialog box titled 'Define Maintenance Type' is open, asking 'What action do you want to execute?' with three options: 'Delete and recreate profile and authorizations', 'Edit old status', and 'Read old status and merge with new data'. The 'Read old status and merge with new data' option is selected and highlighted with a red box. A red arrow points from the 'Expert Mode for Profile Generation' button to the dialog box.

Change Roles

Other role Inheritance

Role

Role: SAP_PS_SALES_PRICING [Obsolete]

Description: Calculate Sales Price

Target System: [No destination]

Description Menu Workflow Authorizations User MiniApps Personalization

Created

User: SAP

Date: 23.12.1999

Time: 09:45:53

Last Changed

User: SAP

Date: 01.02.2000

Time: 10:44:47

Information About Authorization Profile

Profile Name: T_P0920699

Profile Text: Profile for role SAP_PS_SALES_PRICING

Status: Current version not generated

Edit Authorization Data and Generate Profiles

Change Authorization Data

Expert Mode for Profile Generation

Define Maintenance Type

What action do you want to execute?

Delete and recreate profile and authorizations

Edit old status

Read old status and merge with new data

If the role menu has changed, then 'merge' is correct



Check [SAP Note 113290](#) – PFCG: Merge process for authorization data maintenance

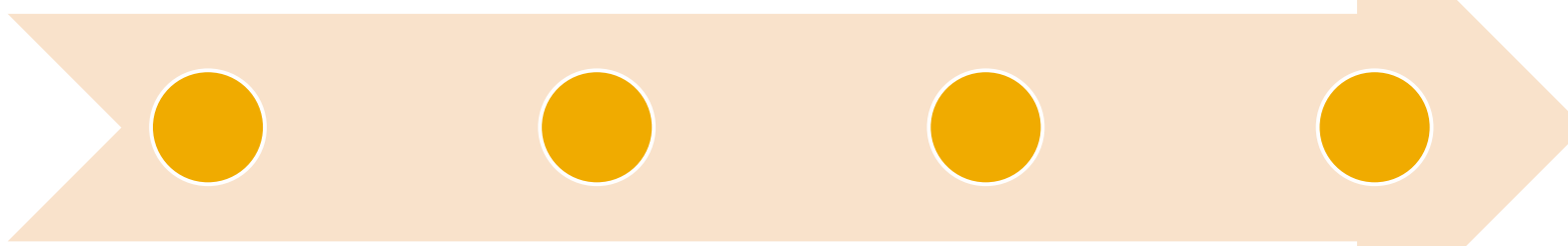
Authorization Adjustments Due to System Conversion

Activities to review post system conversion

SEQUENCE OF STEPS IN SAP S/4HANA:

Apply notes listed in
[SAP Note 440231](#)

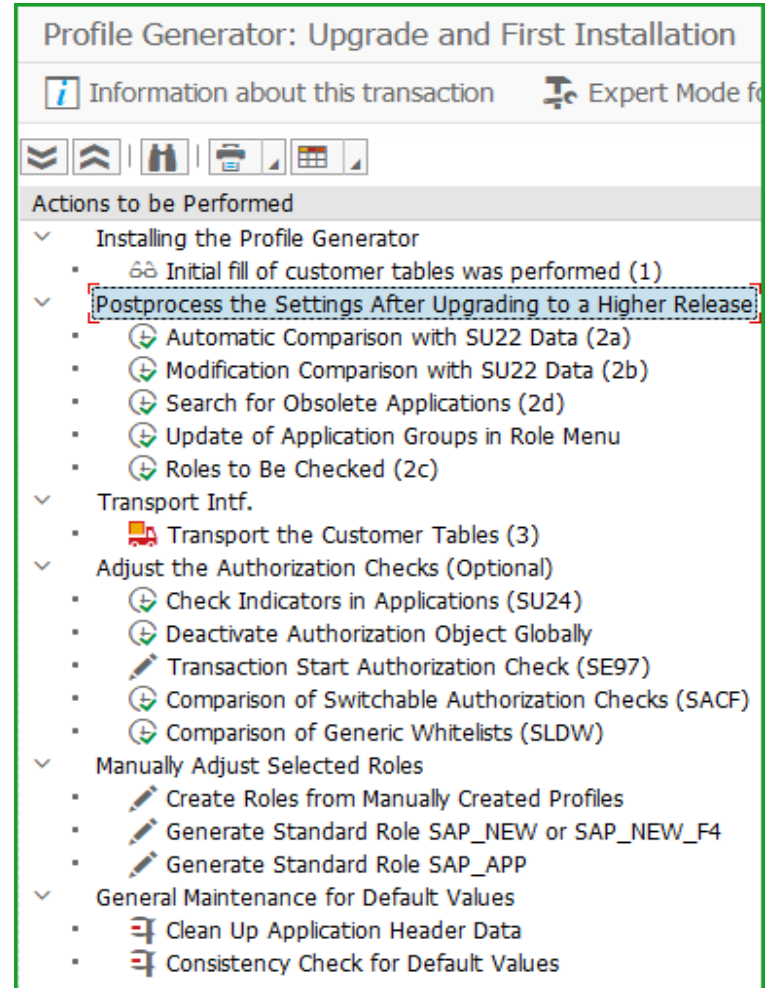
- Postprocessing settings after upgrading (2d) → (2c)
- Comparison of the affected transactions including ones to be replaced
- Review of the roles



Postprocessing settings
after upgrading (2a) → (2b)
(Mandatory)

(3) Transport
customer tables

SU25



Profile Generator: Upgrade and First Installation

Information about this transaction Expert Mode for

Actions to be Performed

- Installing the Profile Generator
 - Initial fill of customer tables was performed (1)
- Postprocess the Settings After Upgrading to a Higher Release**
 - Automatic Comparison with SU22 Data (2a)
 - Modification Comparison with SU22 Data (2b)
 - Search for Obsolete Applications (2d)
 - Update of Application Groups in Role Menu
 - Roles to Be Checked (2c)
- Transport Intf.
 - Transport the Customer Tables (3)
- Adjust the Authorization Checks (Optional)
 - Check Indicators in Applications (SU24)
 - Deactivate Authorization Object Globally
 - Transaction Start Authorization Check (SE97)
 - Comparison of Switchable Authorization Checks (SACF)
 - Comparison of Generic Whitelists (SLDW)
- Manually Adjust Selected Roles
 - Create Roles from Manually Created Profiles
 - Generate Standard Role SAP_NEW or SAP_NEW_F4
 - Generate Standard Role SAP_APP
- General Maintenance for Default Values
 - Clean Up Application Header Data
 - Consistency Check for Default Values

Authorization Adjustments Due to System Conversion

Search for obsolete applications

SU25 – Step 2D Search for obsolete applications
 Displays all roles for which there are changed transaction codes

Exchange of Obsolete Transactions in Role Menu

Standard Selection

Roles

Single Roles
 Composite Roles

Successor for Obsolete Applications

Evaluation as of SAP Basis Release 700

Role Transport

Evaluation of SCC4 setting not active

Exchange of Obsolete Transactions in Role Menu

Automatically adjust menu New Entries Old Entries Role Role Mass Generation

Short Role Description	Node ID	Old Transaction	Old Transaction	Automatic Adjustment	Does not exist	Locked	Obsolete	New Transaction	New Transaction
LO - SD - Master Data	195	Transaction	VV51	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	196	Transaction	VV52	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	197	Transaction	VV53	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	236	Transaction	XD01	Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BP	Maintain Business Partner
	238	Transaction	XD02	Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	240	Transaction	XD03	Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	74	Transaction	XD07	Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	82	Transaction		Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	92	Transaction		Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	113	Transaction		Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
LO - Foreign Trade/C...	13	Transaction	EN99	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	22	Transaction	ENCO	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	18	Transaction	ENGL	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	16	Transaction	ENGR	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	20	Transaction	ENLO	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	24	Transaction	ENPR	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	26	Transaction	ENSV	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	28	Transaction	ENZD	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	350	Transaction	FD32	Entry will be replaced	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UKM_BP	Credit Management Busi...
	219	Transaction	FTUS	Old entry will be deleted	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		



Authorization for SAP Fiori apps for catalogs, groups, and roles are discussed in Week 2 Unit 4

Authorization Adjustments Due to System Conversion

Roles to be checked

SU25 – Step 2C Roles to be checked

Updates the existing roles and flags all roles with new authorization objects

Display Roles to Be Edited After Default Value Change

Merge Mode Merge Mode Merge

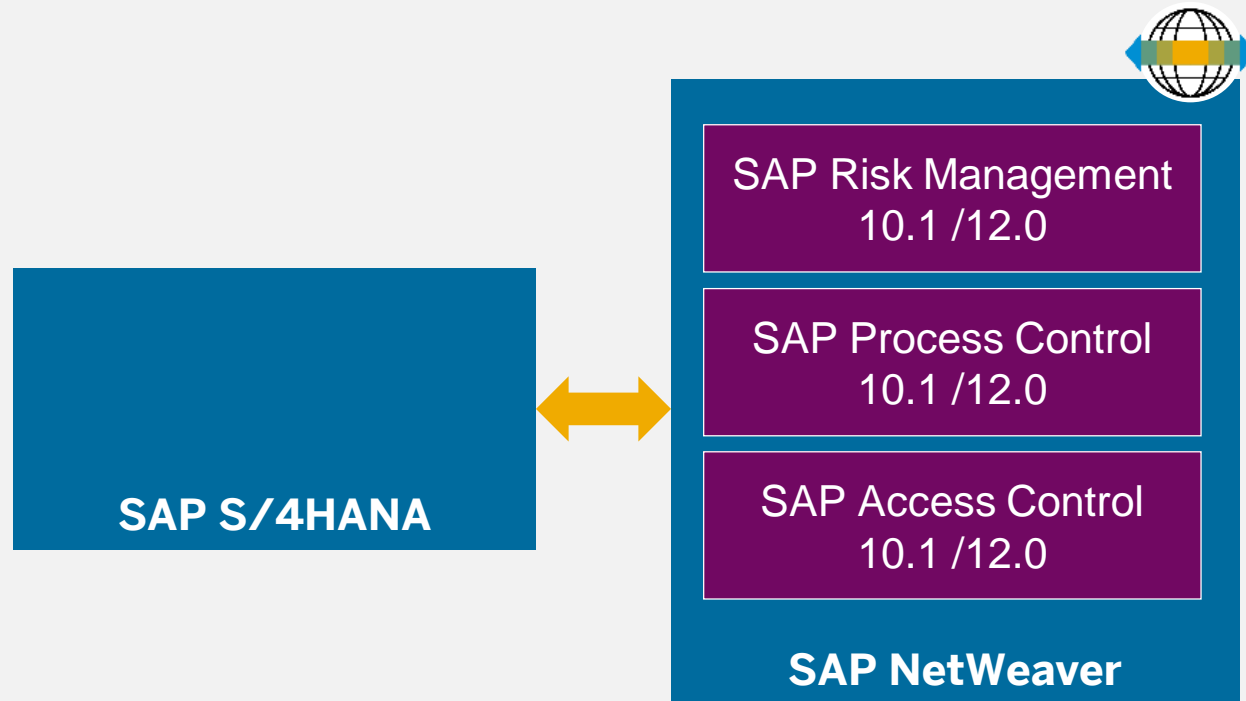
Release / System ID / Client: 753 / S4H / 100
Executed By: S4HINST
Executed On: 01.07.2019/22:40:57
Check Changed SU24 Data From: 08.05.2019

The displayed roles contain applications for which the authorization defaults were changed.
The following statuses exist:
Red (109 Roles): Merge of the authorization data is required and possible (merge mode is active)
Green (6 Roles): Authorization data was already merged.

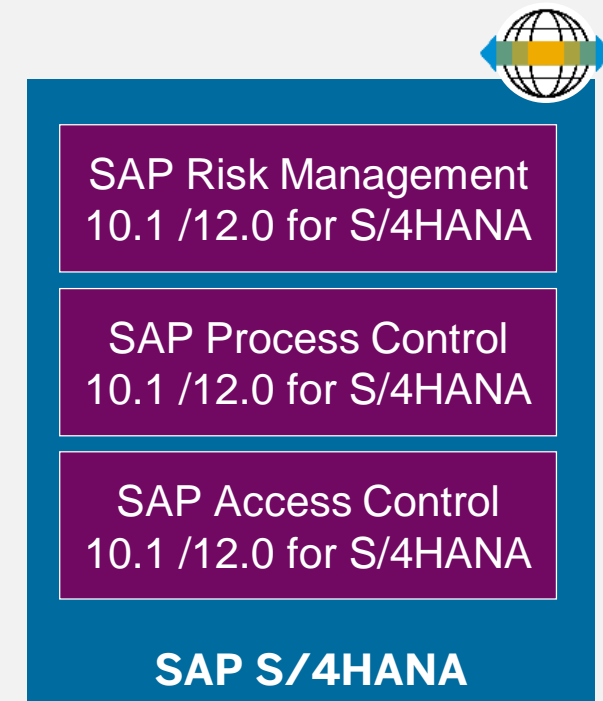
Status	Role	Short Role Description
●○○	FUCN_CASHIER	Cashier
●○○	FUCN_GL_ACCOUNTANT	G/L Accountant
●○○	FUCN_PLANNER	Cash Planner
○○■	FUCN_TREASURY_MANAGER	Treasury Manager
●○○	LTR2_KB_MASTER_USER	LTR2_KB : Master User - All Authorization
○○■	SEC_DIAG_TOOL_VIEWER	Allow access to security diagnostic tool UI
●○○	ZFH_SAP_EMPLOYEE_ESS_WDA_PTAR9	ESS Leave Request - Security Generation from SU22
●○○	ZSAP_EMPLOYEE_ESS_WDA_PTARQ_OY	ESS Leave Request - Security Generation from SU22
●○○	ZZSAP_FSPM_S_DEMO_BUSADMIN	FS-PM: Policy Management Business Administrator
●○○	ZZSAP_FSPM_S_DEMO_BUSEXPRT	FS-PM: Policy Management Business Expert
●○○	ZZSAP_FSPM_S_DEMO_DEVELOPER	FS-PM: Policy Management Developer
●○○	ZZSAP_FSPM_S_DEMO_POLHANDLER	FS-PM: Policy Management Policy Handler
●○○	ZZ_SAP_EMPLOYEE_DE_ESS_WDA_1	ESS Single Role for Germany
●○○	Z_SAP_EMPLOYEE_ESS_PAYSLIP_1	Employee Self-Service (HR)
●○○	Z_SAP_PLMWUI_PROCESS_MENU2	Recipe Development

SAP Governance, Risk and Compliance (GRC) implications

SIDE BY SIDE



CO-DEPLOY



Check [SAP Note 2229853](#) – GRC and SAP S/4HANA on-premise: compatibility information

Check [SAP Note 2654895](#) – FAQ: GRC Access Control 12.0 Installation Questions & Recommendations

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Week 1: Fundamentals and Technical Tooling

Unit 6: Advanced Topics Related to Replication and Reporting

Advanced Topics Related to Replication and Reporting

Considerations prior to conversion

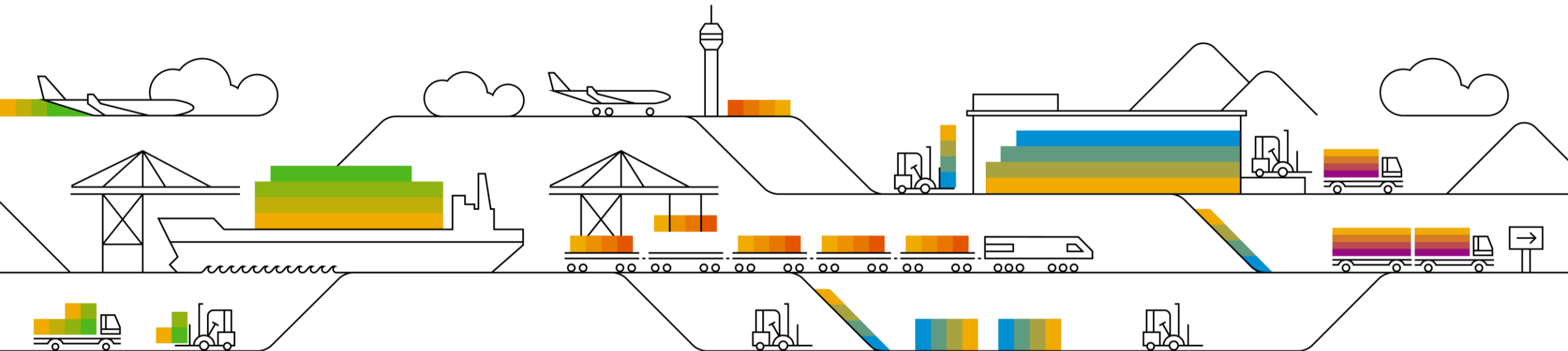


Do you have SAP SLT replication in your landscape?

Have you checked if compatibility views are relevant?

Are you using SAP HANA Live?

Do you have SAP S/4HANA with Active/Active HANA System Replication?

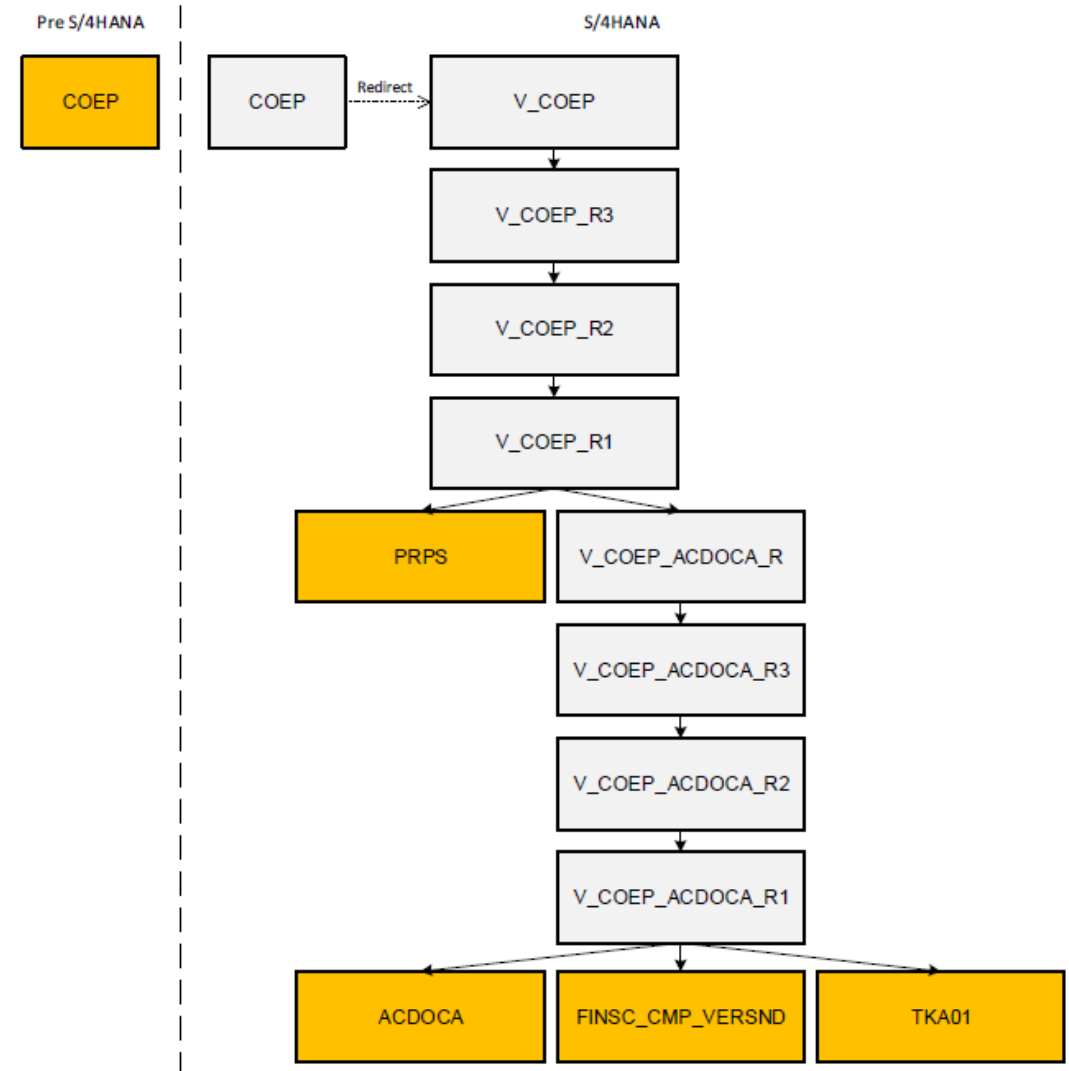


Advanced Topics Related to Replication and Reporting

Compatibility views

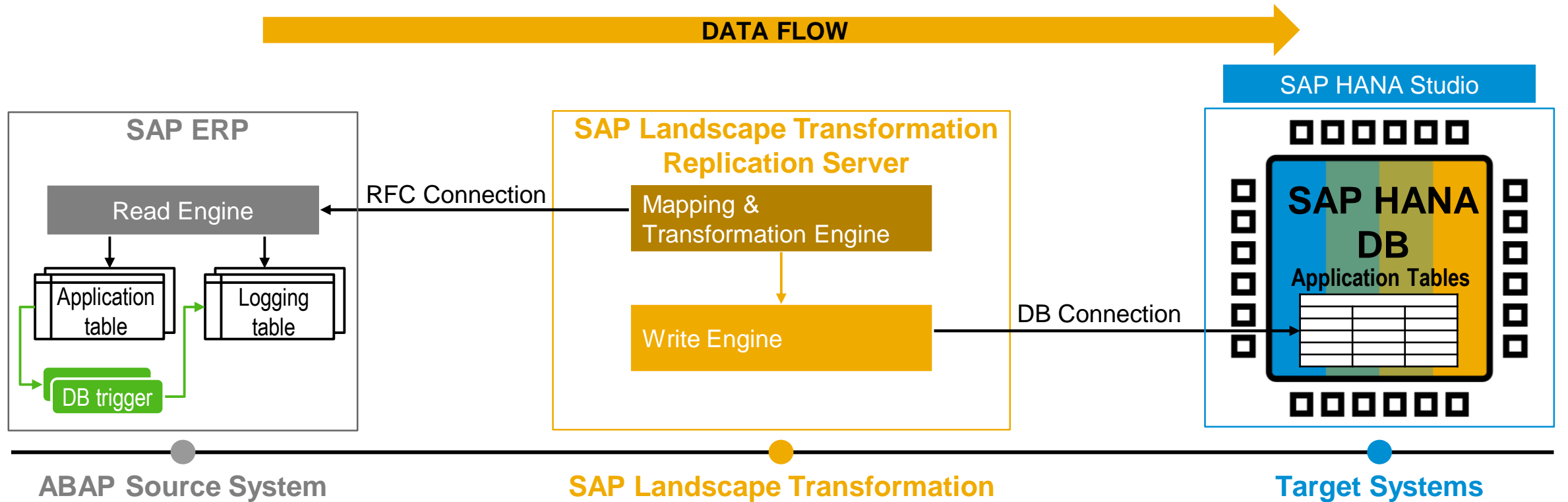
The **compatibility views** ensure database SELECTs work as before. If compatibility views are relevant for your replication project, then the following steps are required:

- Identify whether compatibility views are in use for tables that participate in the replication process.
- Identify the tables associated with the compatibility views.
- Add the newly-identified tables to the replication process.
- Depending on your use case and how you want to use the data, it may be necessary to rebuild the logic of the compatibility view in the target system.



Advanced Topics Related to Replication and Reporting

SLT scenarios prior to conversion



- Data replication via DB trigger based on change capturing concept
- “Unlimited” release coverage (> SAP R/3 4.6C)

- Automatically non-Unicode to Unicode conversion during load/replication
- Handling of cluster and pool tables
- Table settings and transformation capabilities

- Fast data replication via DB connection
- Integration into SAP HANA studio

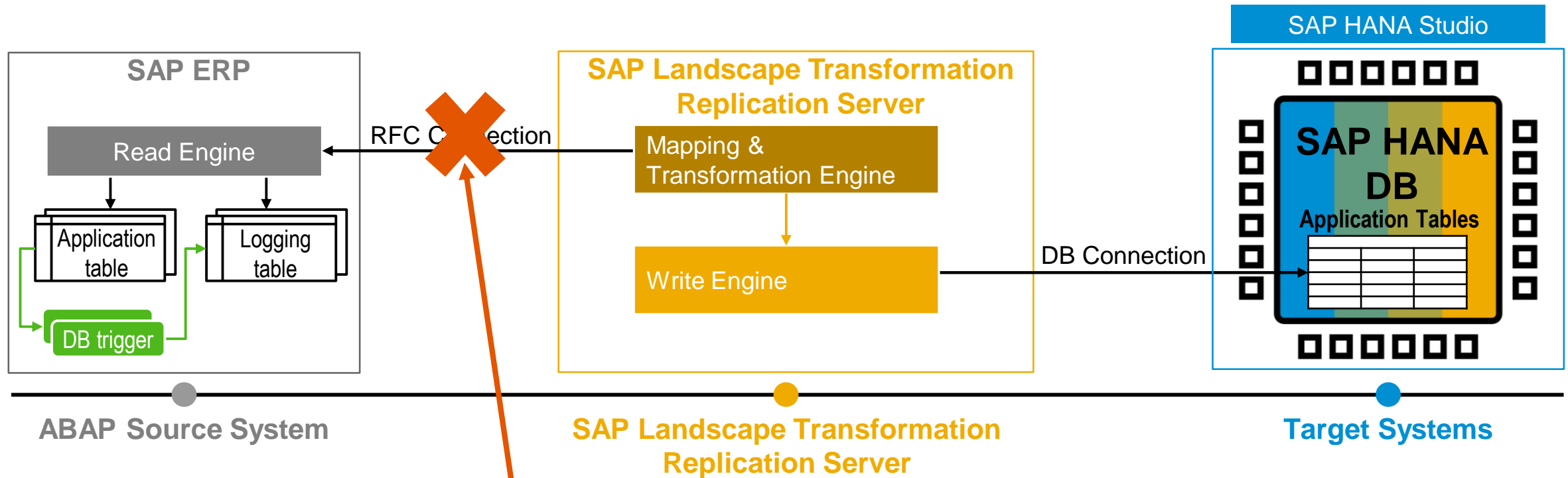


Check [SAP Note 2572945](#) DMIS compatibility with SAP S/4HANA

Check [SAP Note 2594002](#) Migration Cockpit & SLT on SAP S/4HANA on-premise 1809

Advanced Topics Related to Replication and Reporting

What to do in SLT scenarios during conversion



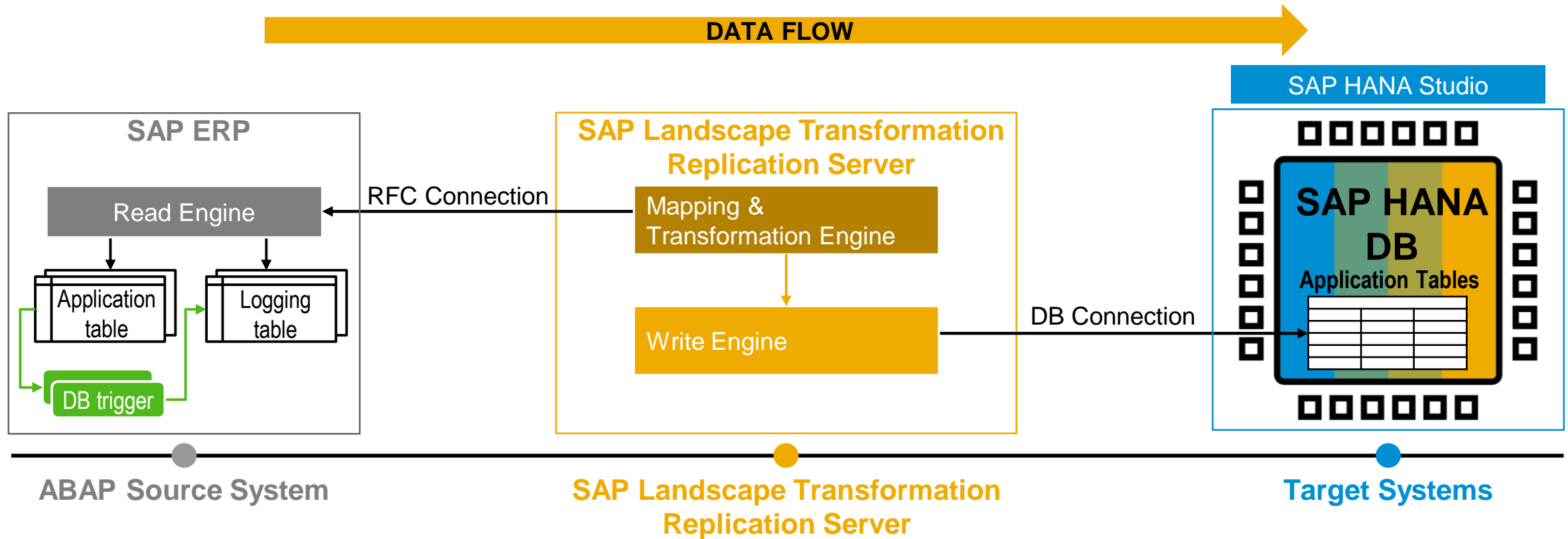
Before starting conversion downtime phase of SUM, pause SAP SLT synchronization



Check [SAP Note 2755741](#) – Potential Impact of SLT During SAP S/4HANA system conversion

Advanced Topics Related to Replication and Reporting

What to do in SLT scenarios after conversion



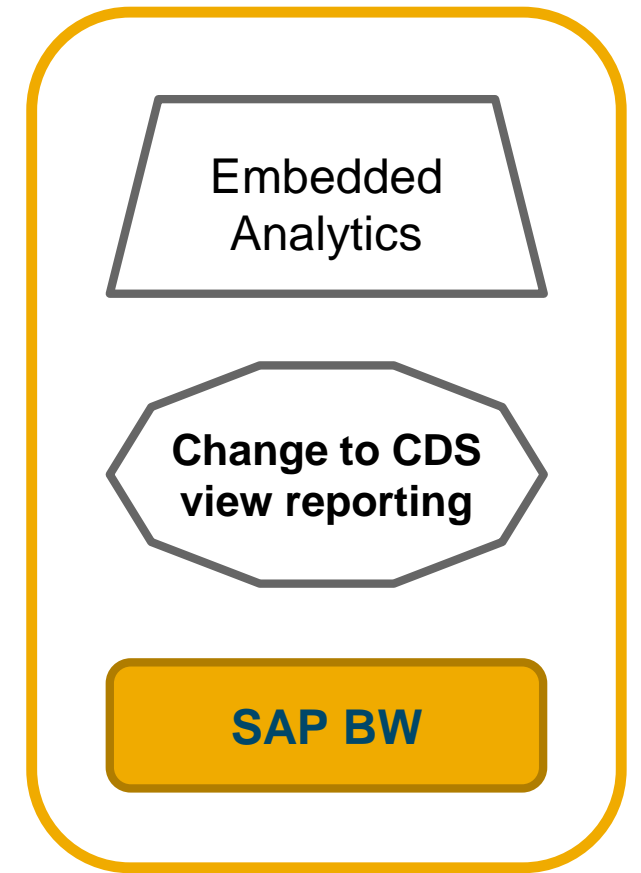
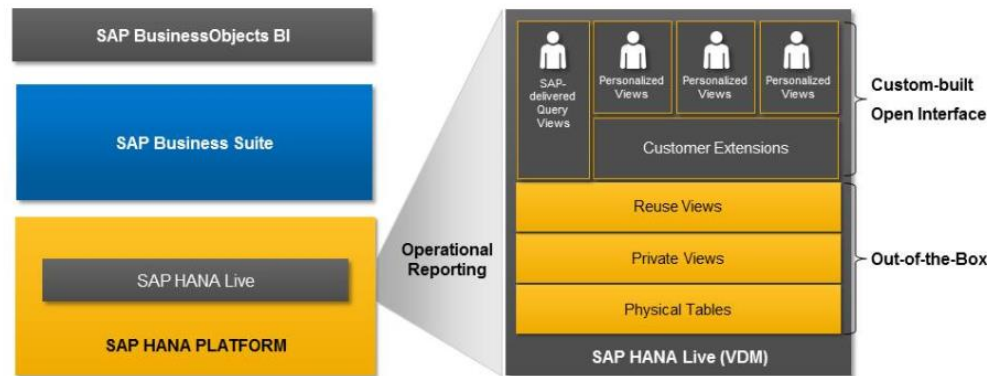
1. Check SAP SLT DMIS version as per compatibility note
2. If necessary, synchronize compatibility view logic for the source and target system
3. Activate SLT configuration
4. Start SLT replication by adding base tables like ACDOCA,TKA01, and others for COEP

What to do in SAP HANA Live scenarios during conversion

SAP ERP on AnyDB:



SAP Business Suite powered by SAP HANA:



1. Stop replication
2. Evaluate options

Conversion of SAP HANA Live models to ABAP CDS-based models

The typical method and steps to be followed for this are:

1. Check the virtual data model delivered with SAP S/4HANA based on CDS views and identify if there is already a standard CDS view that can fulfill your requirement.
2. If the standard CDS view is missing some fields, the CDS view can be easily extended or you can build your own view on top of the existing view and extend it.
3. If there is no standard CDS view for the requirement but you know the requirement from the SAP HANA Live view, then you can build the CDS view from scratch in a few days or longer, depending on the complexity.
4. In cases where the DB tables that were used to build the SAP HANA calculation views on top still exist, an option could be to leave the calculation views as they are and encapsulate them with a special CDS view using ABAP Managed Database Procedures (AMDP).

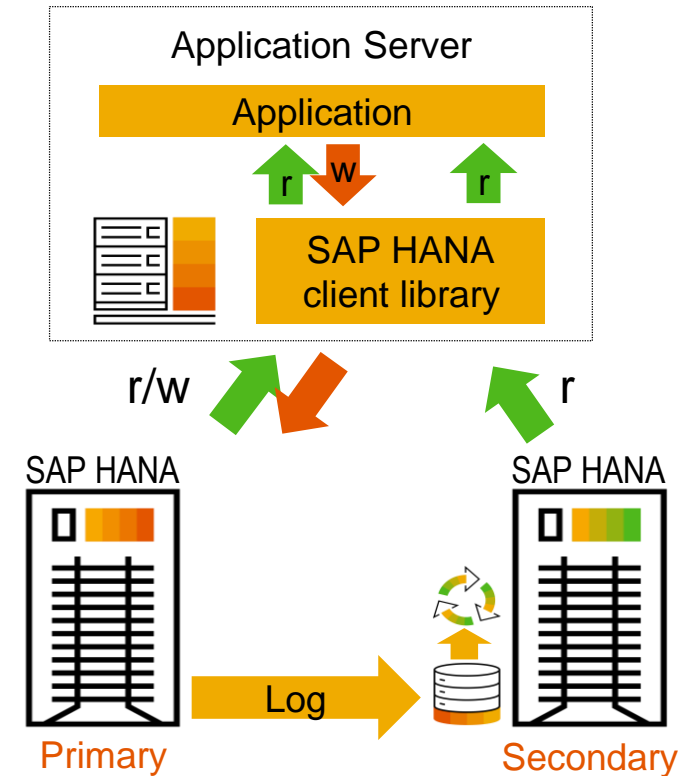


Advanced Topics Related to Replication and Reporting

Active/Active scenarios

- Off-load purely reading workload to SAP HANA system replication (HSR) secondary
- Primary database is continuously replicated to secondary database using log replay
- Value proposition for customers utilizing SAP HANA system replication
 - Data preloaded in main memory of secondary (short delay)
 - Redirect purely reading workload to secondary
- Perfect fit for SAP S/4HANA analytical workload
 - With increasing analytical workload, CPU requirements grow
 - Move part of analytical workload to secondary
- Only listed apps with expensive SQL calls are usually directed to Active/Active (read-enabled) SAP HANA DB

SAP HANA System Replication (HSR)



[SAP Note 2732012](#) - Using Active/Active read enabled feature of SAP HANA in SAP S/4HANA Collective Note
[SAP NOTE 2405182](#) - List of Analytical Apps that are enabled to read from Active/Active

Thank you.

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Week 1: Fundamentals and Technical Tooling

Unit 7: Upgrade Strategy and Planning

Upgrade Strategy and Planning

Agenda

- Maintenance SAP HANA
(Note that has the revision recommendations)
- SAP S/4HANA (releases, FPS, SPS)
- UI5 Library and SAP Fiori updates / kernel
- SUM and ZDO consideration



Prepare: picking the SAP HANA revision for an SAP S/4HANA system

New Guidance

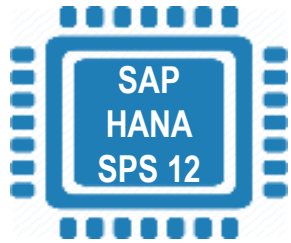
We recently published [SAP Note 2655761](#), which states

- To pick an SAP HANA revision:
 - First check the Release Information Note of your SAP S/4HANA release
 - Then check Note 2655761 whether we may have specific issues with that revision
 - In some cases the revision would be OK but an additional configuration might be needed for certain scenarios
 - If in a given support incident, SAP recommends another revision, then this takes precedence
- In all cases:
 - Make use of the SAP HANA parameter recommendations as given in [SAP Note 2600030](#)
 - This note contains check scripts that are frequently updated
 - The scripts detect SAP HANA version, SAP product installed, etc. and give specific parameter recommendations
 - Check the release note of the SAP HANA revision you intend to install

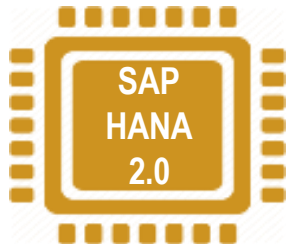
Upgrade Strategy and Planning

SAP HANA release strategy

Previous



End of Maintenance: May 2019



Releases: 2 SPS per year

Maintenance duration of SPS: 1 year



New

End of Maintenance: May 2021

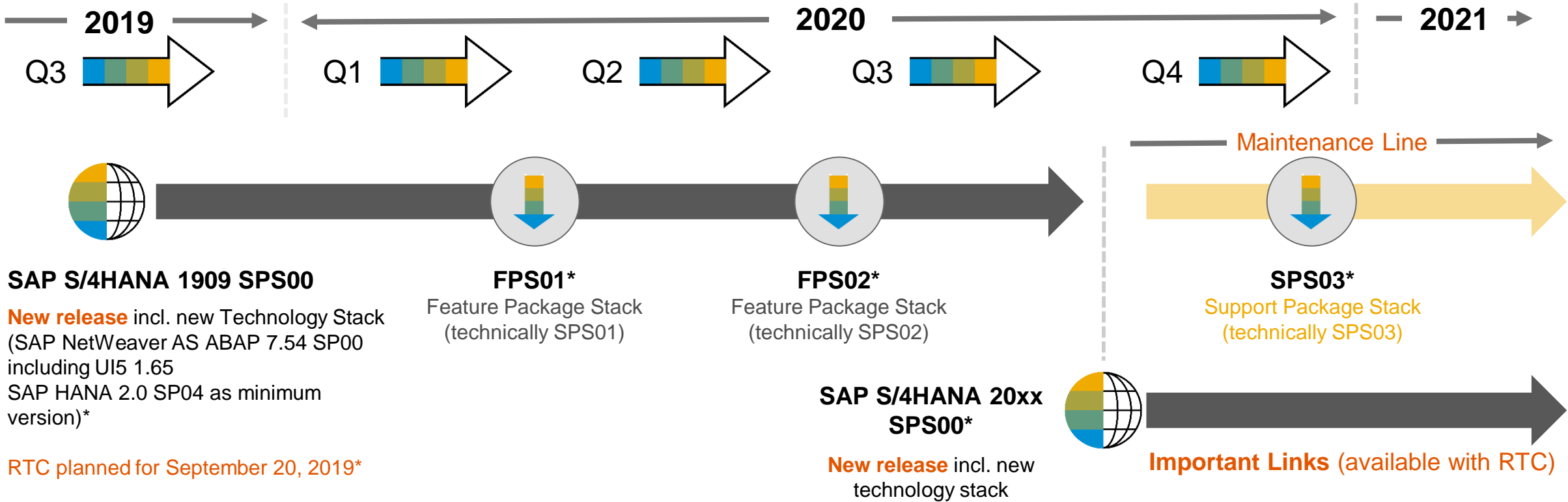
Releases: 1 SPS per year

Maintenance duration of SPS: 2 years starting with SPS 02

Last SPS of SAP HANA 2 will have 5 year long maintenance term






SAP S/4HANA – Release strategy for 2019/2020 and definition of deliveries



Support Package Stack for SAP S/4HANA 1909*

After general availability of SAP S/4HANA 1909, Feature Package Stacks (FPS) and Support Package Stacks (SPS) contain stabilizations bundled with corrections and legal changes. Customers benefit from this functionality as part of their maintenance fee. First SPS of a new release can contain selected features and are labelled Feature Package Stack (FPS) accordingly.

Support Package Stacks are compiled periodically and made available in [SAP Service Marketplace](#)

-  [Restriction Notes](#)
-  [Restrictions and recommendations regarding specific revisions of the SAP HANA database for use in SAP S/4HANA](#)
-  [Release and maintenance strategy for SAP S/4HANA](#)

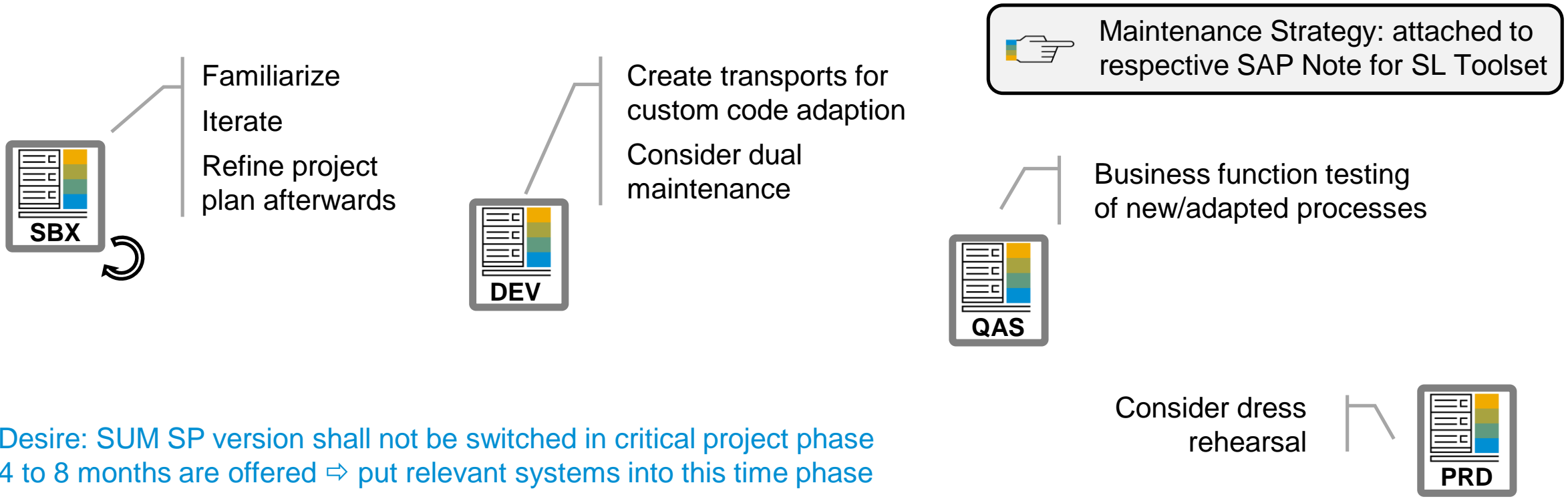
SAPUI5 – Major updates on maintenance strategy



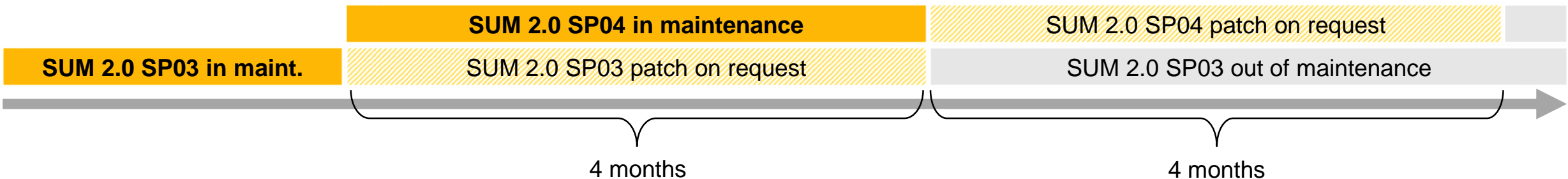
SAPUI5 provides innovations through “maintenance versions” and “innovation versions”. An innovation version is only maintained until the next version of SAPUI5 is released. Maintenance versions have an extended maintenance period in which patches and fixes are provided, even though a higher version is already available.

- With the recent version a new innovation cycle started, planned to be finalized with the ensuing three versions.
- The recent version is an innovation version available only on cloud.
- The upcoming version will be also an innovation version, available on cloud and for on-premise deployment.

Project planning aspect with SUM version consideration



Desire: SUM SP version shall not be switched in critical project phase
4 to 8 months are offered ⇒ put relevant systems into this time phase



Updating an SAP S/4HANA system using Software Update Manager (SUM)



Standard approach

- Several downtime-optimizations (e.g. shadow system operations)
- Generally available for all customers



near-Zero Downtime Maintenance (nZDM)

- Downtime reduction by moving downtime-relevant phases to uptime
- Generally available for all customers



Zero Downtime Option (ZDO)

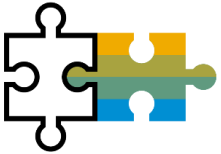
- All phases are running during uptime
- Planned to be available on project basis



Upgrade Strategy and Planning

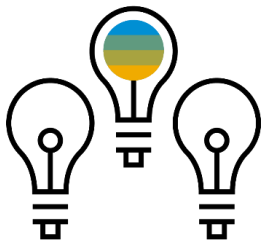
ZDO takeaways

Availability



- Zero Downtime Option of SUM for SAP S/4HANA is “available on project basis”
- For details, see SAP Note [2163060](#) – Prerequisites and Restrictions of Zero Downtime Option of SUM

Advantages



- ZDO considers the overall business downtime for updates, upgrades, and customer releases
- Significantly reduce the business downtime to one single restart
- With Zero Downtime Option of SUM for SAP S/4HANA applying Feature Package Stacks and Support Package Stacks will be possible for pilot customers

Thank you.

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