

# End-to-End Overview of System Conversion to SAP S/4HANA (Part 1)

CAA113

PUBLIC



#### **Speakers**

#### Las Vegas

September 24-27, 2019

Boris Rubarth

Barcelona October 8-10, 2019

Boris Rubarth

Bangalore

November 13-15, 2019

Anupam Rajput



#### Take the session survey.

We want to hear from you!

Complete the session evaluation for this session CAA113 on the SAP TechEd mobile app.



Download the app from iPhone App Store or Google Play.

∎I Telekom.de 🗢 10:52
WELCOME
SAP TECHED
SAP TechEd Session Survey

#### **Disclaimer**

The information in this presentation is confidential and proprietary to SAP and may not be disclosed without the permission of SAP. Except for your obligation to protect confidential information, this presentation is not subject to your license agreement or any other service or subscription agreement with SAP. SAP has no obligation to pursue any course of business outlined in this presentation or any related document, or to develop or release any functionality mentioned therein.

This presentation, or any related document and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment, promise or legal obligation to deliver any material, code or functionality. This presentation is provided without a warranty of any kind, either express or implied, including but not limited to, the implied warranties of merchantability, fitness for a particular purpose, or non-infringement. This presentation is for informational purposes and may not be incorporated into a contract. SAP assumes no responsibility for errors or omissions in this presentation, except if such damages were caused by SAP's intentional or gross negligence.

All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.

## Agenda

Requirements

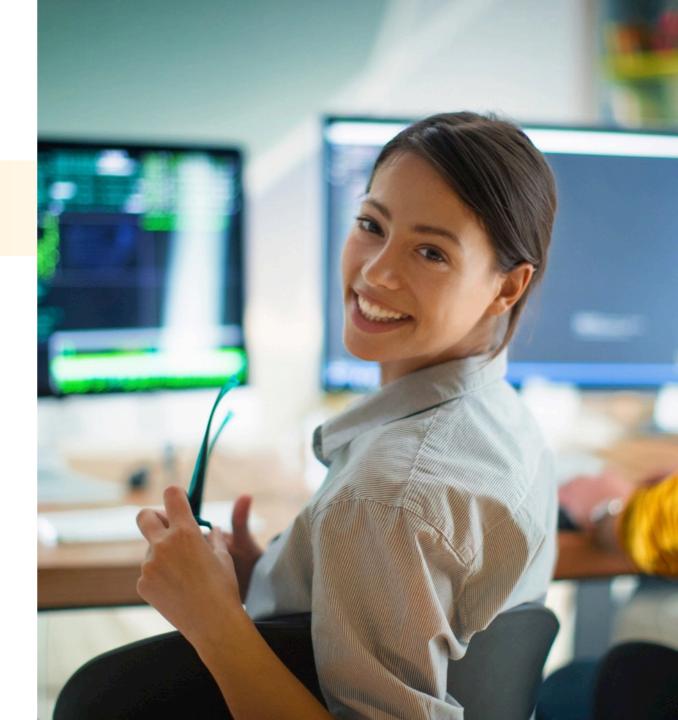
System prerequisites

Preparation

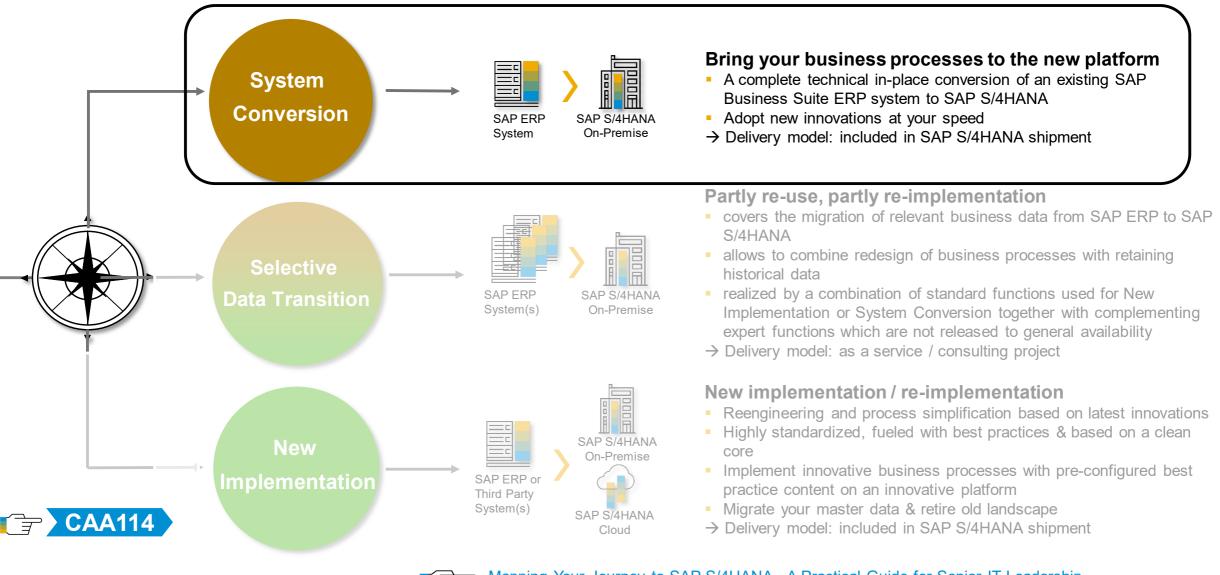
Checks

#### Execution

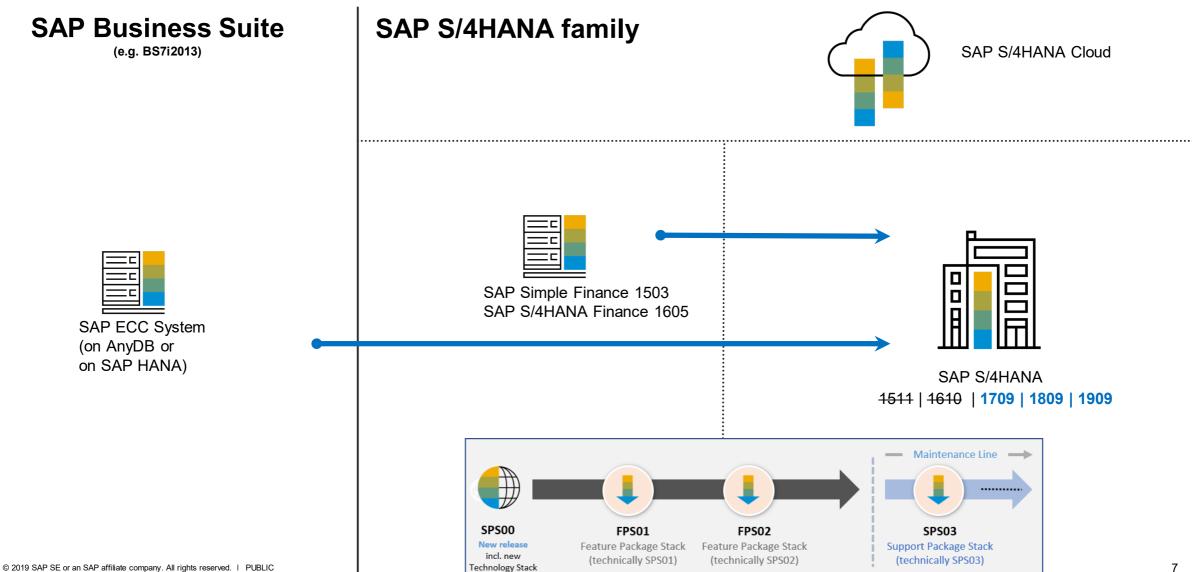
SUM & Data conversion



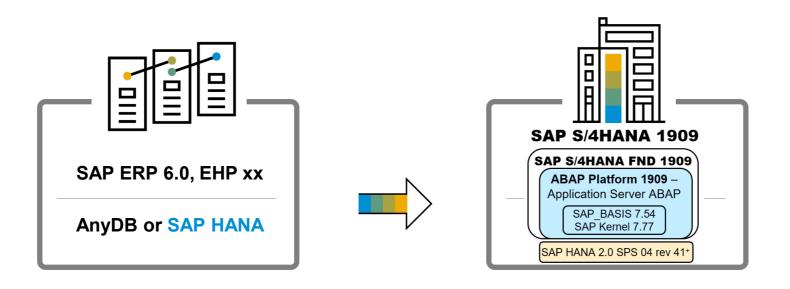
### Your way to SAP S/4HANA



#### The SAP S/4HANA family and system conversion paths



Transition paths overview



#### Notes on source system

- Unicode is required
- ABAP single stack required
- SAP HANA database not required

2769531 - SAP S/4HANA 1909: Release Information Note

Conversion requirements incl. min./max. SP-level on source system:

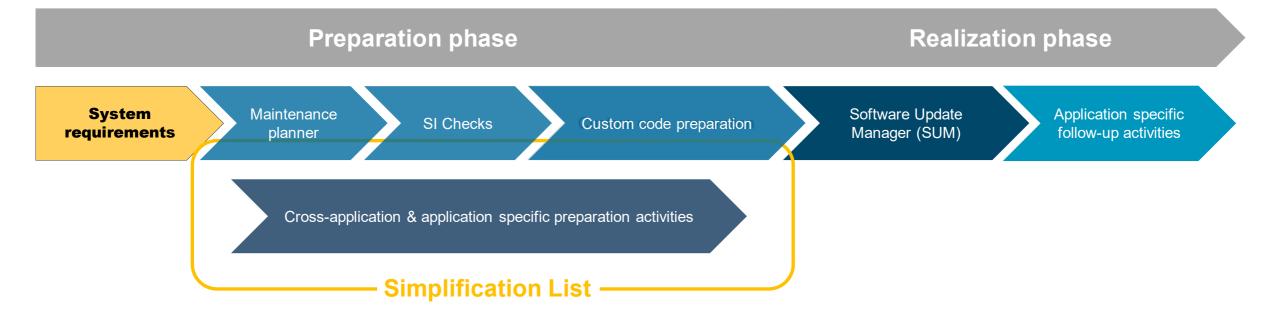
#### Notes on target system

- SAP S/4HANA 1909 is based on ABAP Platform 1909
- Consider different OS coverage since ABAP Platform 1809



2620910 - SAP S/4HANA ... and SAP BW/4HANA 1.0: Recommended Application Server Platforms

Overview technical process steps



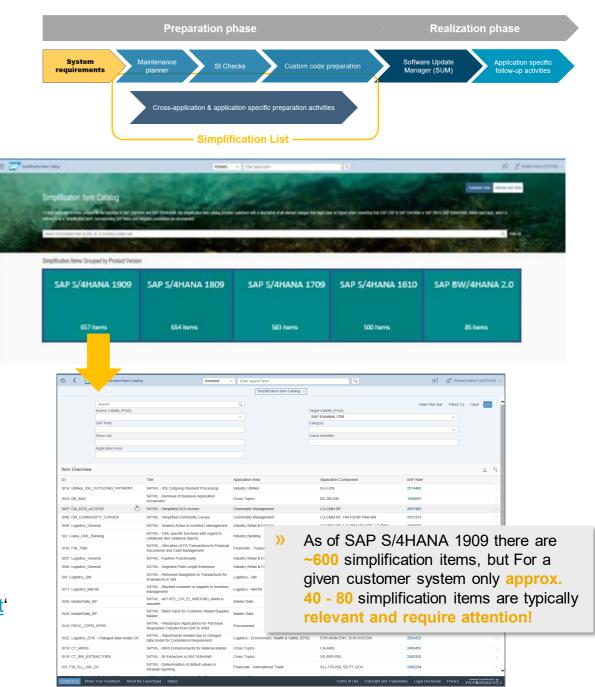
Simplification list

#### The simplification list is a collection of simplification items.

- A simplification item documents differences in application functionality (changed, replaced, removed) between SAP ERP 6.0 and SAP S/4HANA.
- A simplification item provides information about the potential impact of this change for the customer.
- The simplification list provides this information per SAP S/4HANA
   On-Premise release as part of the SAP S/4HANA documentation.
- The SAP Readiness Check for SAP S/4HANA, the SAP ABAP custom code analysis, as well as the simplification item checks are based on the information in the simplification items.

Access simplification Items via the simplification item Catalog:

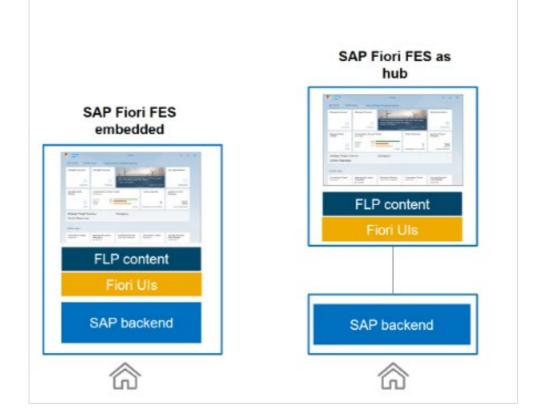
- https://launchpad.support.sap.com/#/sic/
- <u>SAP S/4HANA on the SAP Help Portal</u>: Most current version of the SAP S/4HANA simplification list as PDF
- SAP Blog: <u>SAP S/4HANA Simplification Item Check How to do it right</u>
- SAP Blog: <u>The TOP Simplification List Items</u>



## **SAP S/4HANA - FIORI aspects**



- SAP Fiori UX is new UI experience, target architecture for SAP S/4HANA
- SAP Fiori and SAP GUI are both supported (for exceptions see Simplification List)
- Relevance and readiness analysis recommends Fiori Apps based on T-codes
- Stepwise implementation of SAP Fiori Apps possible
- SAP Fiori Frontend Server (FES)
  - Provides Fiori & central UI components
  - Maintenance planner considers FES software
- FES deployment: embedded or separate, depends on other backends (type & release)



<u>2805572</u> - Release information note for product version SAP Fiori for SAP S/4HANA 1909.

https://blogs.sap.com/2018/02/16/sap-fiori-deployment-options-and-recommendations/

### Agenda

Requirements

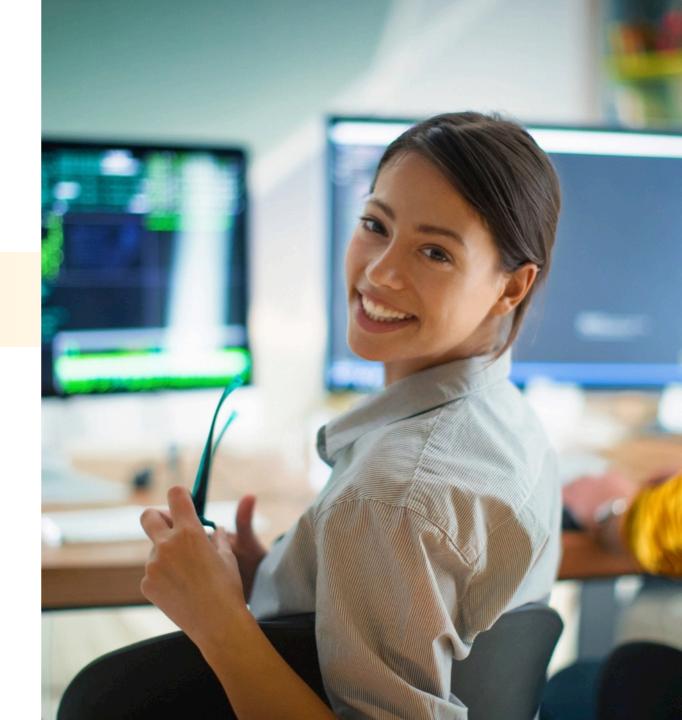
System prerequisites

Preparation

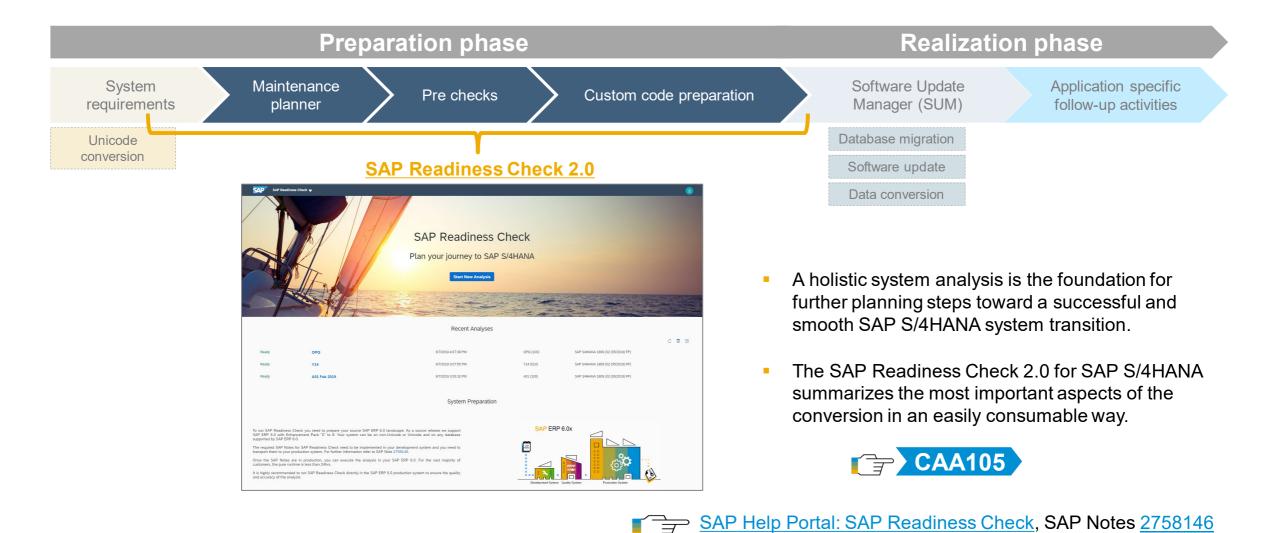
Checks

Execution

SUM & Data conversion



## SAP Readiness Check 2.0 for SAP S/4HANA



T I

## Introduction to the SAP Readiness Check 2.0 for SAP S/4HANA

#### Overview of the user interface



## SAP S/4HANA

Maintenance planner for system conversion

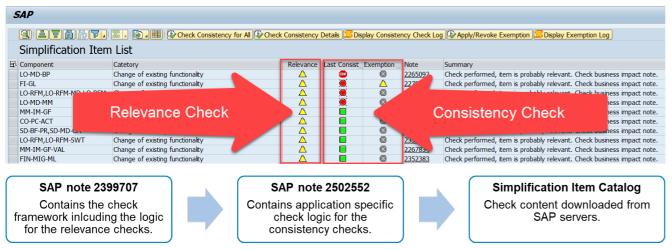
- The planning tool (successor for MOpz) for update, upgrade, migration, conversion, installation <u>http://apps.support.sap.com/sap/support/mp</u>
- Preparations for conversion: Check and plan
- Checking source system concerning add-ons, business functions License for SAP S/4HANA not required for check
- Planning for conversion provides software archives & stack.xml Backend and frontend server (FIORI) are considered
- Un-installation of add-ons can be planned;
   3<sup>rd</sup> party add-ons to be checked in time!

	Preparat	ion phase		Realiz	ation p	hase	
m requirements	Maintenance planner	SI Checks Custom con	de preparation	Software Update Manager (SUM)		Application specifi follow-up activitie:	
	Cross-application	& application specific preparation act	ivities				
	S	mplification List		)			
	Explore	e Systems	E	Explore Syste	em Tı	racks	
	<u>e</u> -						
	»»		»»		»»		
	SAI	Select Backend System	Selec	t Additional Systems			
	Cho	Back-End	Server Selectio	on		5	
Additio	F≭ onal Systems	istina Svstem	03VCopDo[A	DADI			
	✓ Frontend \$	Server Selection					
nne	() E	ixisting System:	Selec	ct existing system		$\checkmark$	
	0	nstall a New System:	SID?				
	• •	co-deployed with Backend:	S2YC	onDe[ABAP]			
Color San	Т	arget Version:	SAP	FIORI FOR SAP S/4HANA	1909	$\checkmark$	
	T	arget Stack:	Initial	Shipment Stack		$\checkmark$	

Simplification Item Checks



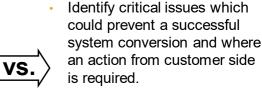
- Simplification item ('SI') checks are shipped as SAP TCI Notes.
- SI-checks are executed on the (SAP Business Suite) start system (preparation phase) to determine relevant simplification items and mandatory application specific preparation steps.
- Check if serious issues exist in the system which could cause the system conversion/upgrade to fail.
- Support not only system conversions to SAP S/4HANA, but also upgrades within SAP S/4HANA
- SI-Checks are executed again as step in the Software Update Manager (SUM). In case dedicated simplification items require mandatory
  preparation steps the conversion procedure can stop to ensure a consistent system conversion.



#### **Relevance check:**

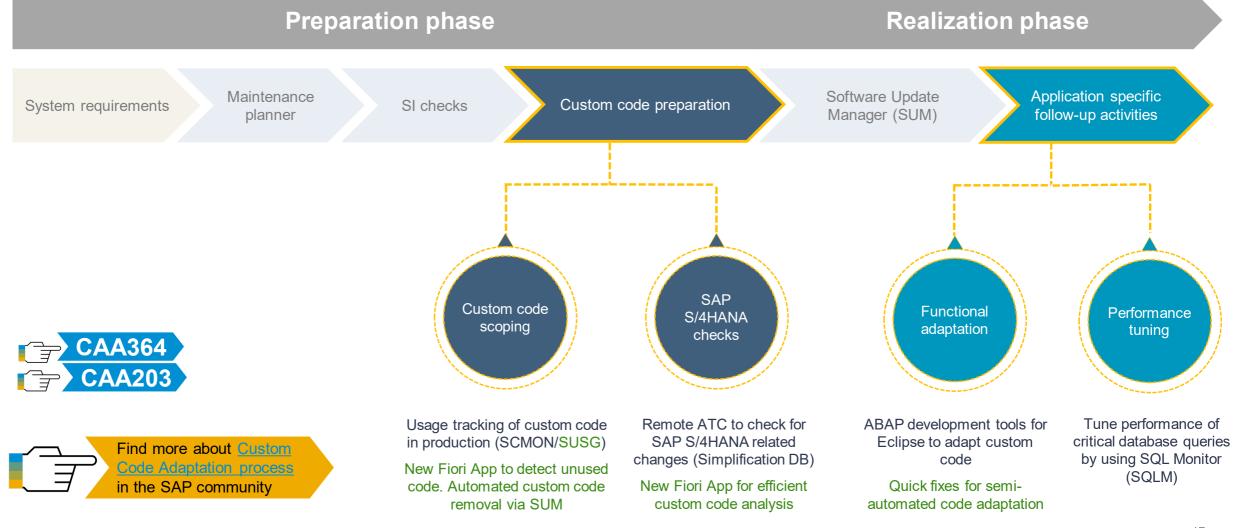
- Identifies probably relevant Simplification Items based on an analysis of the data in the system.
- For informational purpose, so customers know which Simplification Items and related SAP notes to have a closer look at.

#### **Consistency check:**



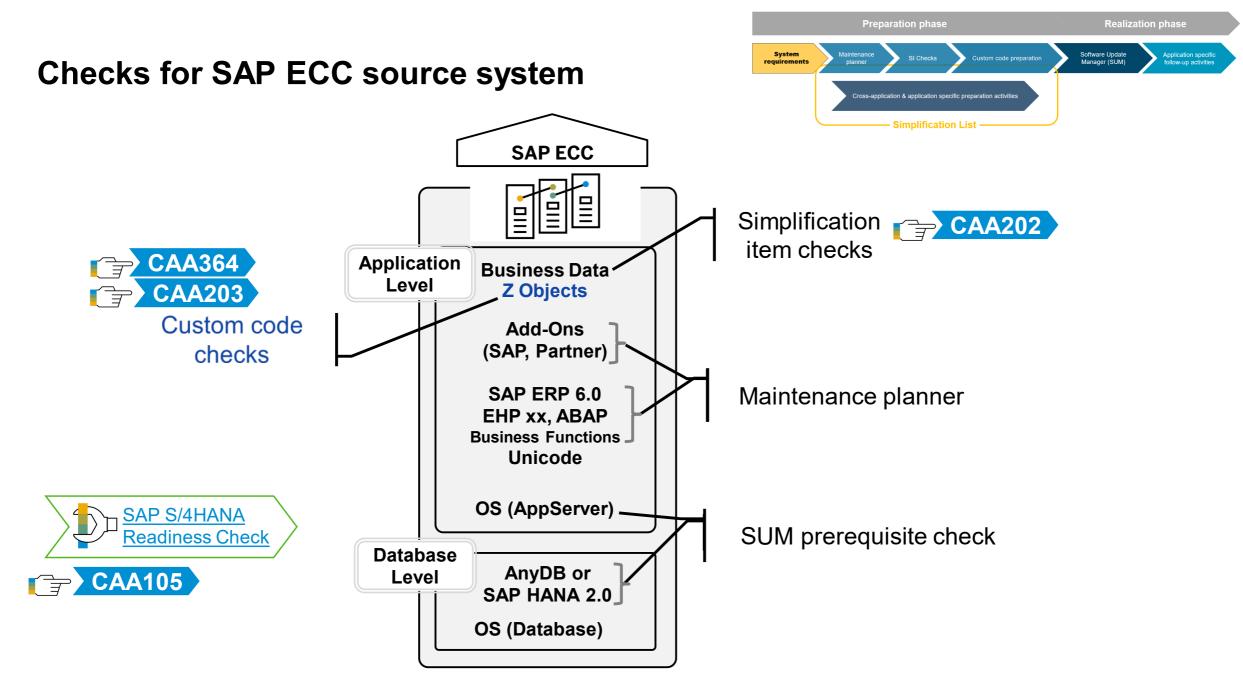
Will prevent Software Update Manager from going into the downtime, if not all critical errors are fixed or exempted.

Custom code related process



## Custom code analysis options

	2 control of the second		
	Remote ATC with SAP GUI	SAP Fiori Custom Code Migration App	SAP Fiori Custom Code Migratio App in SAP Cloud Platform
Required system	Central ATC check system (SAP_BASIS 7.52)	Central ATC check system (SAP S/4HANA 1809)	SAP Cloud Platform, ABAP Environment
System location	in customer landscape	in customer landscape	cloud
Remote connectivity	via RFC	via RFC	via RFC and SAP Cloud Connecto
Analyze SAP S/4HANA findings	~	~	~
Simplification information in ATC result	~	~	~
Filter results by scope and Quick Fix availability	×	~	~
Define custom code migration scope based on usage data	×	~	~
Remove unused code during system conversion via SUM	×	~	~
9 SAP SE or an SAP affiliate company. All rights reserved.   PUBLIC			1



### Agenda

Requirements

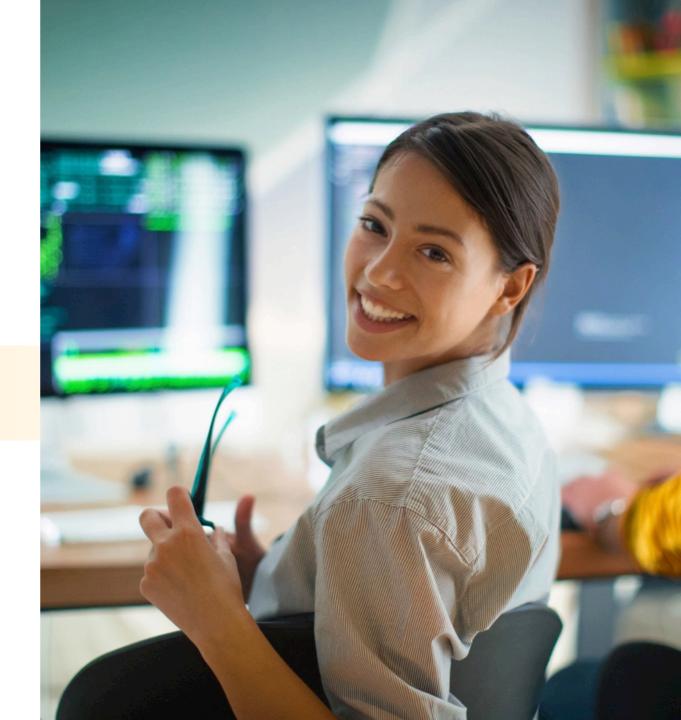
System prerequisites

Preparation

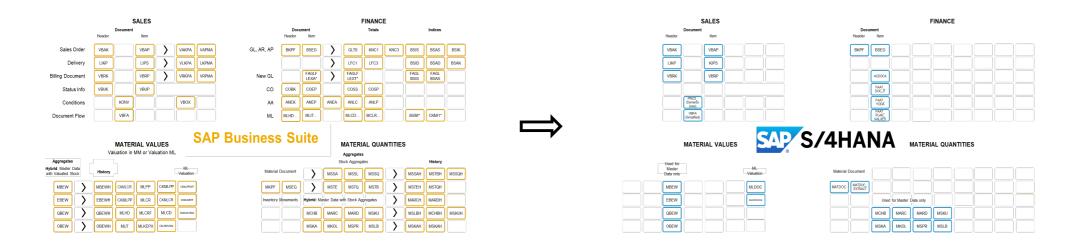
Checks

Execution

SUM & Data conversion



#### Data conversion as part of system conversion



- Transition of business data (table content) into tables of the new data model examples:
  - GLT0, FAGLFLEXT, FAGLFLEXA -> ACDOCA (Universal Journal)
  - MKPF, MSEG -> MATDOC
- Handling of "old" tables depends on the application area
  - Some old tables may no longer be used
  - Some fields of old tables may still be used
- Concept of "Obsolete Data Handling", see SAP Note 2661837

PlanningPreparationRealizationSystem<br/>requirementsMaintenance<br/>plannerSI<br/>ChecksCustom<br/>Code prepSUMFollow-on<br/>activities

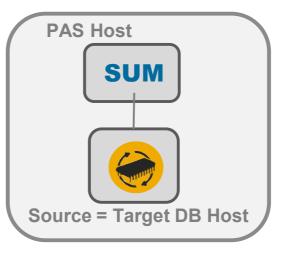
Technical conversion by Software Update Manager (SUM)

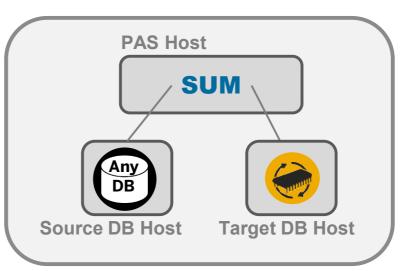
- Conversion tasks for SUM:
  - Software update

Provide new applications and new tables

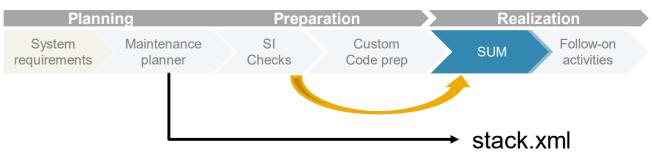
- Data conversion
   Conversion of table content to new data model
- Database migration

Migrate to SAP HANA database (if required)





Technical conversion prerequisites



- Maintenance planner: provides stack.xml and software archives
- SI checks: will be executed by SUM as well -> solve all issues before

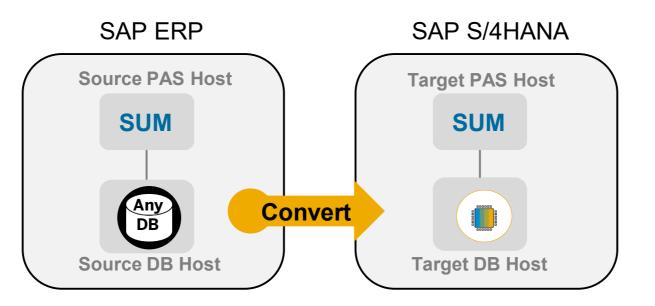
**Optional activities (depending on system type)** 

- **Readiness check:** is optional, but strongly recommended!
- **Custom code check**: may be ignored, e.g. for a sandbox conversion run
- SUM prerequisite check: check of OS/DB- and SPAM requirements
   See SUM conversion guide: <u>https://support.sap.com/sltoolset</u> -> Maintenance area



## DMO with system move

Possible option for a system conversion



DMO with system move allows to switch the complete system (esp. AppServer host):

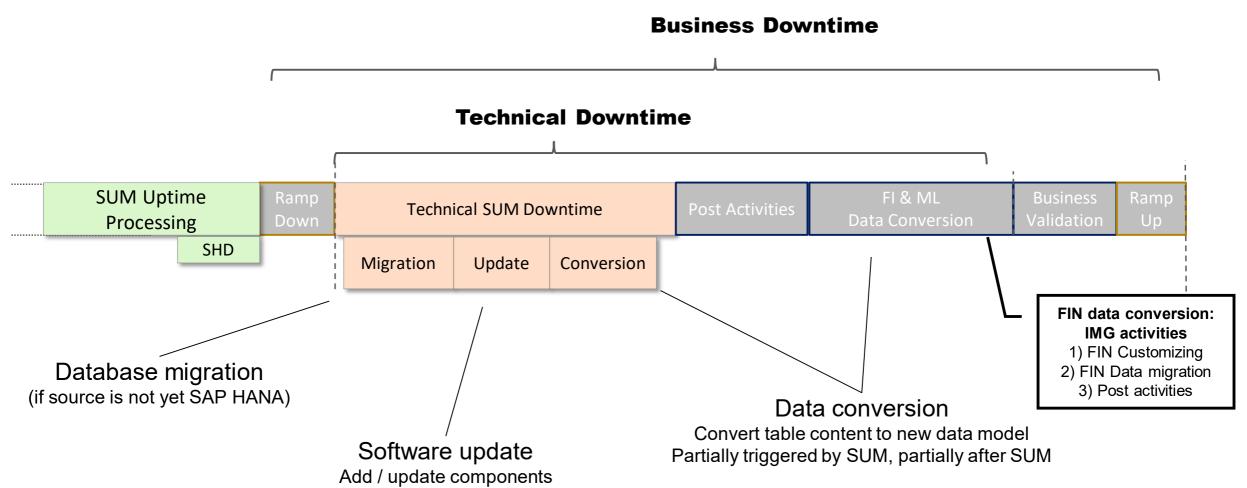
- From one host to a different host (e.g. hardware change)
- From one data center to a different one
- From on-premise to Cloud (IAAS)

Note:

DMO with system move for target SAP S/4HANA **1909** is not supported with SUM 2.0 SP **06**, but it will be supported with a later SUM SP version

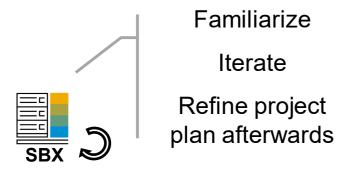
## Main technical conversion steps

Partially related to Software Update Manager (SUM)



## Aspects of project planning

Maintenance Strategy: Attached to SAP Note for respective SL Toolset



Create transports for custom code adaption Consider dual maintenance

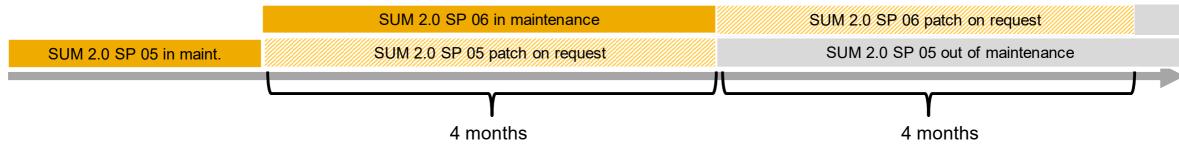


Business function testing of new/adapted processes

Goal: SUM SP version shall not be switched in critical phase 4 to 8 months maintenance => relevant systems to be converted therein

Consider dress rehearsal





DE\

#### Aspects to consider

Time	<ul> <li>Simplification Item clearance</li> <li>Workshops, end user training</li> <li>3<sup>rd</sup> party Add-on support check</li> <li>Archiving and deprecation of custom code to be considered</li> </ul>
Knowledge	<ul> <li>Plan project as joint project (Tec &amp; Biz) from the very beginning</li> <li>Colleagues with broad knowledge of Finance, Controlling &amp; Asset Accounting required</li> </ul>
Testing	<ul> <li>2 to 3 test conversions on a sandbox/isolated system, with business tests on target</li> <li>Tests for roles and authorization changes</li> <li>Plan Dress Rehearsal (test conversion of productive system under real-time conditions)</li> </ul>



### Agenda

Requirements

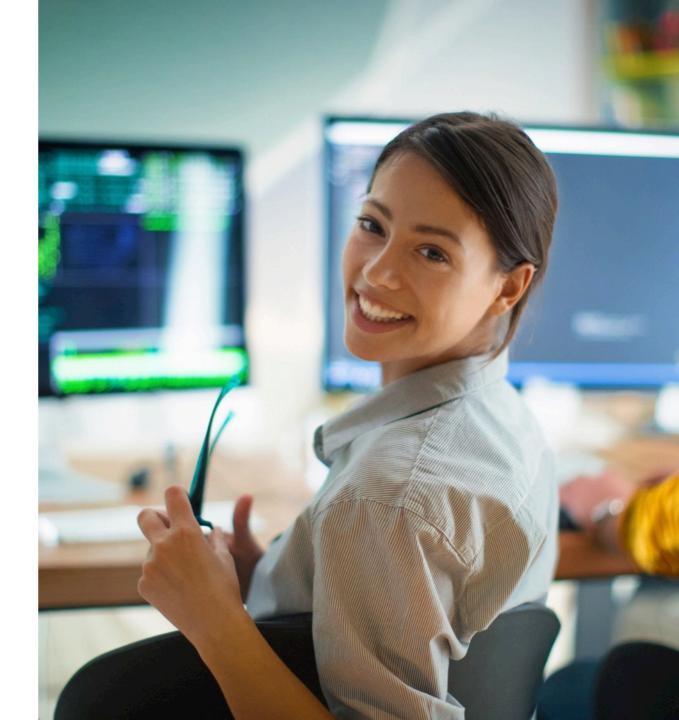
System prerequisites

Preparation

Checks

#### Execution

SUM & Data conversion



#### Information sources for system conversion

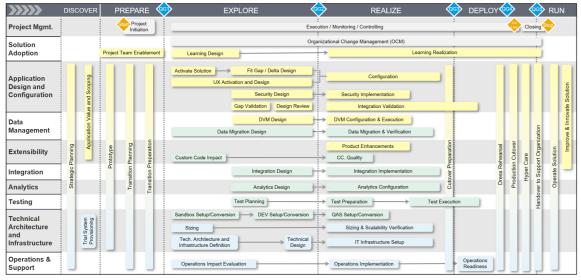
Transition scenarios:

	https://blogs.sap.com/2017/07/06/how-to-find-my-path-to-sap-s4hana-understand-the-available-transition-options/				
	Mapping your journey to SAP S/4HANA - A practical guide for senior IT leadership:				
	<u>https://www.sap.com/documents/2019/05/44b3ebd5-4b7d-0010-87a3-c30de2ffd8ff.html</u>				
	https://blogs.sap.com/2016/11/02/sap-s4hana-system-conversion-at-a-glance/				
	http://open.sap.com/courses/s4h14				
Release and maintenance str	ategy for SAP S/4HANA				
	https://help.sap.com/doc/fb3ee8b026b9468890aedd443afb9aae/1511_000/en-US/ReleaseMainStratS4.pdf				
Target SAP S/4HANA 1909:					
-	SAP Note 2769531 - SAP S/4HANA 1909: Release Information Note				
	SAP Note 2620910 - SAP S/4HANA and SAP BW/4HANA 1.0: Recommended application server platforms				
	SAP Note 2805572 - Release information note for product version SAP Fiori for SAP S/4HANA 1909				
Simplification list	https://help.sap.com/viewer/p/SAP_S4HANA_ON-PREMISE				
Simplification Item catalog	https://launchpad.support.sap.com/#/sic/				
Simplification Item checks	https://blogs.sap.com/2018/03/26/sap-s4hana-simplification-item-check-how-to-do-it-right				
Readiness check	https://www.sap.com/readinesscheck				
	https://rc.cfapps.eu10.hana.ondemand.com				
Maintenance planner	http://apps.support.sap.com/sap/support/mp				
•	SAP Note 2240359 Always-Off business functions / SAP Note 2240360 Always-On business functions / SAP Note 2214409 Compatible SAP add-ons /				
	SAP Note SAP Note 2696603 Compatible partner add-Ons 1809 / SAP Note 2011192 Uninstalling ABAP add-ons				
Custom code adaptation	https://blogs.sap.com/2017/02/15/sap-s4hana-system-conversion-custom-code-adaptation-process/				
http://support.sap.com/sltool	set SUM guide, DMO guide, SUM conversion guide, related SAP Notes, software download, Blogs,				
https://help.sap.com/viewer/p	SAP S4HANA ON-PREMISE Conversion guide, Custom code migration guide, SI Catalog, SI List, Release Information Note,				

## SAP supports you on your way to SAP S/4HANA

#### "Transition to SAP S/4HANA" road map:

- Best practices project documentation in the Roadmap Viewer for all SAP customers to transition to SAP S/4HANA on-premise
- Graphical overview and structured end-to-end documentation of an implementation or conversion project, including project file templates
- Helps customers, partners, and SAP to prepare and run transition projects according to SAP Best Practices
- Accelerators link to more detailed information, blogs, templates, training
- Links from project activities and tasks to services
   Your guidance for SAP Support offerings



◆ Quality gates Task/activity type: \_\_\_\_\_ functional \_\_\_\_\_ technical and functional \_\_\_\_\_ technical \_\_\_\_\_ Project Management

#### Ask for SAP Service Offerings

If you want SAP to support and safeguard your project, ask your account representative for SAP service offerings: SAP Value Assurance, SAP MaxAttention<sup>™</sup>, and SAP ActiveAttention services.





For more information, please visit us online:

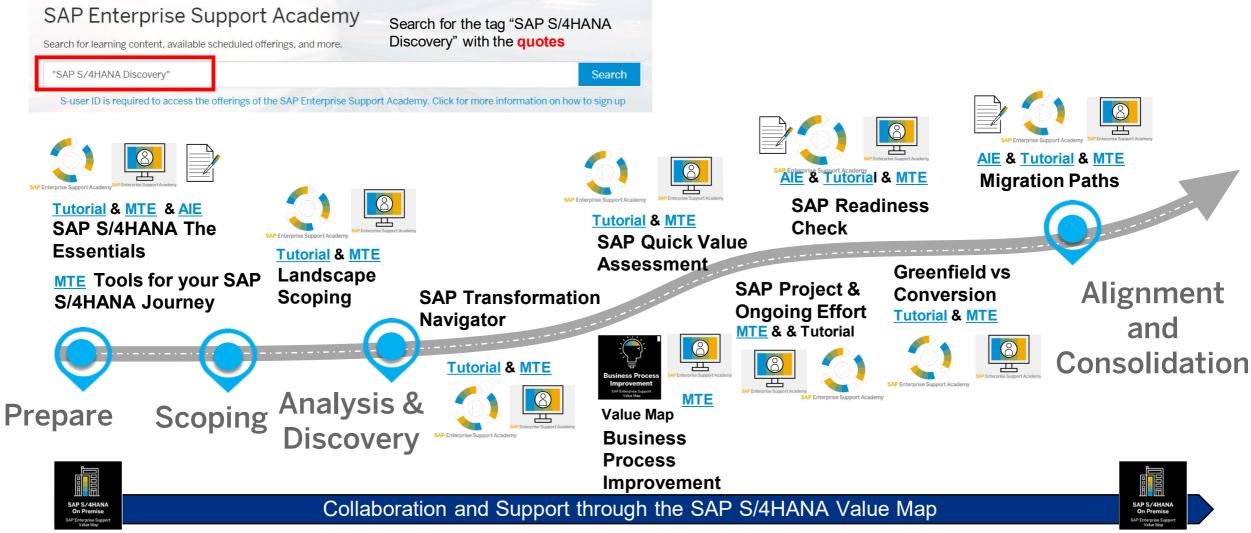
- www.sap-digital-business-services.com /offerings/sap-value-assurance
- www.sap.com/maxattention
- www.sap.com/activeattention

Check our webinars on Transition to SAP S/4HANA: <a href="https://webinars.sap.com/sap-user-groups-k4u/en/s4hana11">https://webinars.sap.com/sap-user-groups-k4u/en/s4hana11</a>

## SAP S/4HANA Discovery: Define a transition Roadmap to SAP S/4HANA

SAP Enterprise support content\* - public blog

Visit us at SAP Enterprise Support Academy and enter the search tag "SAP S/4HANA Discovery" with the quotes



© 2019 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC \* Examples of the key content, some tutorials are under development. Please note the content/timing is subject to change 31

## Continue your SAP TechEd 2019 Learning Experience

Join the digital SAP TechEd Learning Room 2019 in SAP Learning Hub

- Access SAP TechEd Learning Journeys
- Discover related learning content
- Watch webinars of SAP TechEd lectures
- Learn about SAP's latest innovations with openSAP
- Collaborate with SAP experts
- Self-test your knowledge
- Earn a SAP TechEd knowledge badge

**SAP** Learning Hub

openSAP



## Engage with the SAP TechEd Community

Access replays and continue your SAP TechEd discussion after the event within the **SAP Community** 



#### Access replays

- Keynotes
- Live interviews
- Select lecture sessions
   http://sapteched.com/online



#### **Continue the conversation**

- Read and reply to blog posts
- Ask questions
- Join discussions

#### sap.com/community



#### Check out the latest blogs

- See all SAP TechEd blog posts
- Learn from peers and experts

#### SAP TechEd blog posts

#### More information

#### **Related SAP TechEd Learning Journeys**

CAA3 – Move to SAP S/4HANA

#### **Show Floor booth:** Journey to SAP S/4HANA

#### **Related SAP TechEd sessions**

- CAA105 Check Your System's Readiness for an SAP S/4HANA Conversion
- CAA114 Paths for Transitioning to SAP S/4HANA
- CAA113 End-to-End Overview of System Conversion to SAP S/4HANA Part 1
- CAA202 End-to-End Overview of System Conversion to SAP S/4HANA Part 2
- CAA203 Custom Code Adaptation for SAP S/4HANA
- CAA261 System Conversion: Get Firsthand Experience with the Tools (Hands-On)
- CAA362 Custom Code Adaptation for SAP S/4HANA (Hands-On)

#### Public SAP Web sites

- SAP Community: <u>www.sap.com/community</u>
- SAP products: <u>www.sap.com/products</u>
- Software Logistics Toolset: <u>http://support.sap.com/sltoolset</u>
- SAP S/4HANA Guides: <u>https://help.sap.com/S4HANA</u>





## Thanks for attending this session.



#### Feedback

Please complete your session evaluation for CAA113.

#### **Contact for further topic inquiries**

Boris Rubarth Product Manager Boris.Rubarth@sap.com





#### www.sap.com/contactsap

© 2019 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platforms, directions, and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.



See www.sap.com/copyright for additional trademark information and notices.