



The screenshot shows the SAP Cloud ALM Test Case Overview page. At the top, there are filters for Project (E2E Transformation D...), Scope (S/4HANA Finan...), Solution Process, Solution Process Flow Diagram, Tags, Status, and Automation Provider. Below the filters is a search bar and a 'Create' button. The main area displays a table of test cases:

Title	Variant	Automation Provider	Status	Last Changed	Scope	Solution Process
1GP - Financial Posting		In Preparation		Sep 4, 2023, 11:52 AM	S/4HANA Finance	Intercompany Financial Posting (1GP)
2 nd new test case for BTP enhancement for sales		In Preparation		Feb 10, 2023, 1:58 PM	S/4HANA Finance	
Accounts Payable - Part 2		Prepared		Jan 26, 2023, 12:28 PM	S/4HANA Finance	Accounts Payable (J60)
Accounts Payable - Part 2		Prepared		Sep 15, 2022, 12:43 PM	S/4HANA Finance	Accounts Payable (J60)
Asset Accounting - J62 - DE	DEFAULT_VARIANT TAT_CC8	In Preparation		Mar 20, 2023, 5:03 AM	S/4HANA Finance	Asset Accounting (J62)
Basic Credit Management - BD6	DEFAULT_VARIANT TAT_HUD	In Preparation		Aug 23, 2023, 3:27 PM	S/4HANA Finance	Basic Credit Management (BD6)
Basic Credit Management - BD6	DEFAULT_VARIANT TAT_CC8	In Preparation		Aug 23, 2023, 3:27 PM	S/4HANA Finance	Basic Credit Management (BD6)
DEMO J58 - General Posting		Prepared		Aug 25, 2023, 12:15 PM	S/4HANA Finance	Accounting and Financial Close (J58)

A callout box on the right side of the table says: "See all test cases, manual and automated, and create new test cases in the test preparation application".

SAP Cloud ALM allows the preparation and execution of manual and automated test cases. The Best Practice content provides standard manual test cases that can be imported into SAP Cloud ALM to accelerate the preparation process. With integration to the Test Automation Tool for S/4HANA Cloud, when scoping a solution process which has automated test cases in the Test Automation Tool, this automation test case will be automatically synchronized and can be executed directly in SAP Cloud ALM.

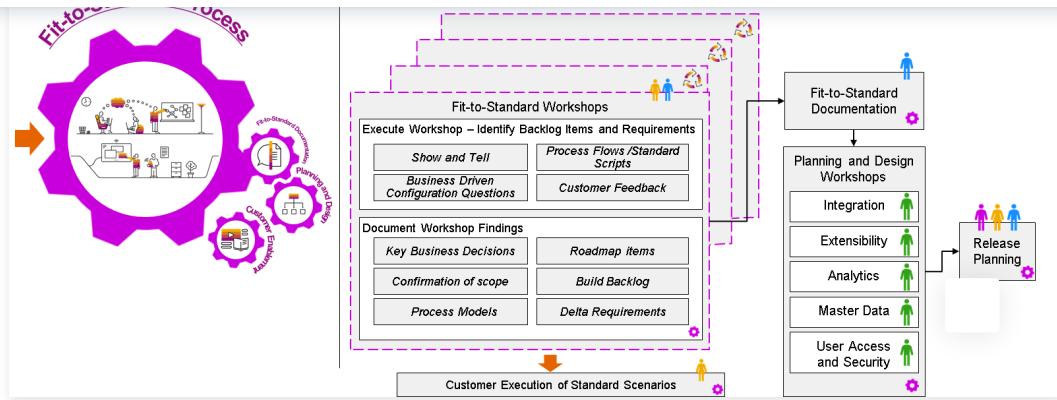


The screenshot shows a SAP Cloud ALM interface for managing features. On the left, a sidebar lists 'Feature (3)' with three items: 'Requirement: New field extension SAP S/4HANA Cloud' (status: In Implementation), 'No requirement' (status: ATO), and another unnamed item (status: ATO). The main area displays a table with columns for Title, Feature Status, Release, Deployment Status, and Transport Details. The 'Deployment Status' column is highlighted with a green border. It contains several rows of transport requests, each with a green circular icon and dependency arrows pointing to other transports. The 'Transport Details' column at the bottom right shows a grid of transport requests.

SAP S/4HANA Cloud Transport Traceability in SAP Cloud ALM

- Utilize Feature to keep track of your Configuration, Key User and Developer Extensibility changes in SAP S/4HANA Cloud.
- Easily assign your released transport requests to a feature.
- Manage dependencies between different collection types by bundling dependent transport requests in one feature.
- Simply use the Feature Traceability as a starting point to decide about next steps like forwarding and importing transport requests.

Applying Fit-to-Standard Process



SAP Roadmap SAP Activate for SAP S/4HANA Cloud, public edition provides guidance for all process phases from Discover to run. Selected ones are described below:

Business Driven Configuration Questionnaires are used as a reference during the Fit-to-Standard workshops. Answers are used to foster discussion to help identify backlog items and requirements needed for the solution realization. All backlog items and delta requirements are defined and documented in each workshop. There can be multiple waves for each Fit-to-Standard workshop depending on the complexity of topics.

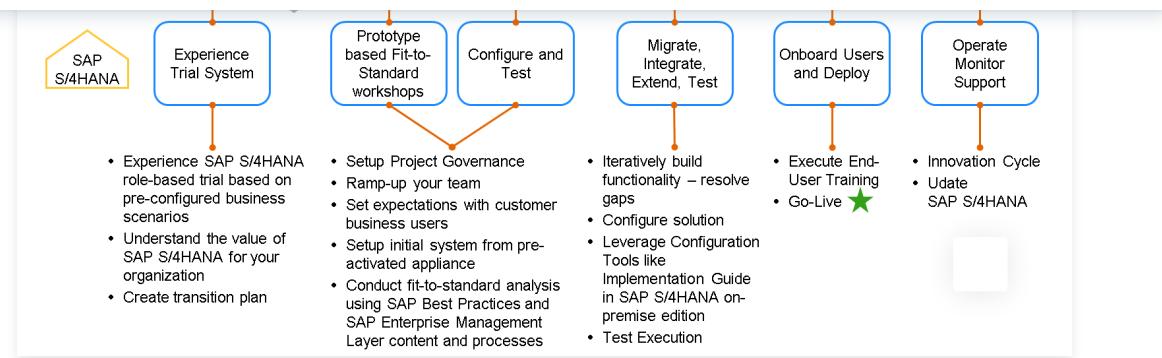
Business Process Experts execute scenarios demonstrated during the Fit-to-Standard workshops in the Starter System

All process flows, backlog items, and delta requirements are reviewed and validated for completeness after being defined during the Fit-to-Standard Workshops.

Handover of requirements and process flows to expert teams and delta requirements are reviewed and converted into backlog items.

All backlog items are reviewed and consolidated into one Backlog. The scope for the first implementation phase is determined and items descoped are documented for future implementation phases.

New Implementation SAP S/4HANA (On-Premise)



In this New Implementation scenario also called Greenfield, customers implement a new instance of SAP S/4HANA (on-premise) by moving either from a non-SAP legacy system or from an older SAP solution. In this scenario, customers can refine their business processes, focus on key innovations and start adopting new cloud based solutions. Customers may only want essential master data and transactional data from their existing solution, such scenario will be described in the lesson 'Understanding System Conversion'.

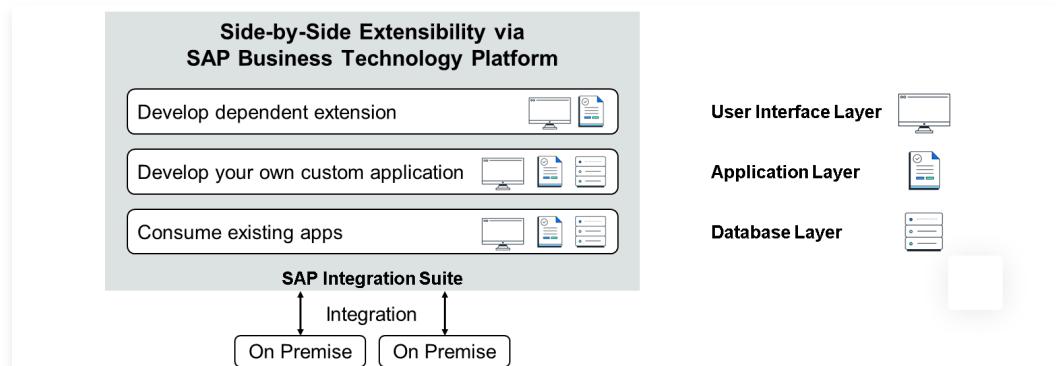


The screenshot shows the SAP Solution Manager interface. A yellow callout box points to the 'Solution Documentation' section, stating: 'All customer business processes, including Best Practices live in Solution Documentation in SAP Solution Manager'. Another green callout box points to the 'SAP Best Practice Processes are also available in SAP Cloud ALM' section.

The tool for deploying SAP Best Practices in an SAP S/4HANA private cloud or on-premise system is the SAP Solution Builder. The focus of the Solution Builder is on solutions. A solution contains a set of SAP Best Practices scenarios which are predefined process flows for a particular line of business or business area. Scenarios consist of one or more building blocks, which are self-contained, and reusable entities that include customizing settings and/or master data steps.

Best Practices are only activated once in the development system. Transports are used to provide the quality and production systems with the business configuration defined in the development system.

All of a customer's business processes documentation live in the central library in Solution Manager called Solution Documentation. When customizing SAP Best Practices to a customer's requirements, do not edit the SAP Best Practices directly. Make a copy and edit the copy. Additional customer-specific content and supporting documentation is also created and maintained in Solution Documentation.



The SAP Business Technology Platform provides developers with a modern extensibility framework and enables developers to implement loosely coupled extension applications securely, thus implementing additional



premise or cloud SAP solutions.

Extensibility in SAP Business Technology Platform is divided into three suites:

Extension Suite - Development Efficiency

Extend and optimize business processes in your existing applications and simplify development with low-code tools to create innovative applications faster.

Extension Suite - Digital Experience

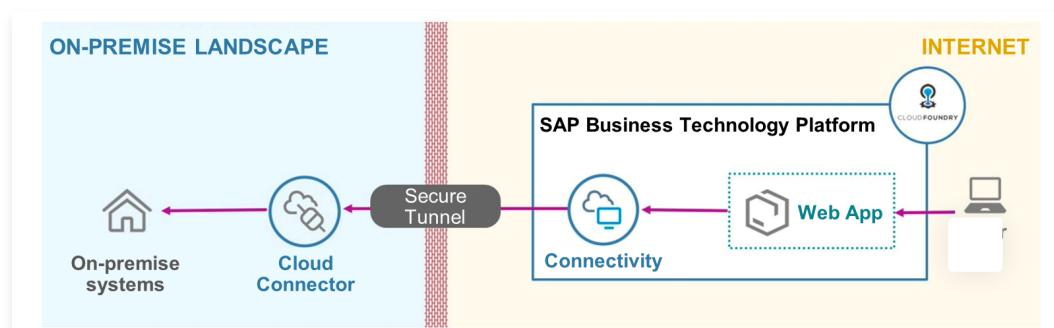
Deliver consistent, personalized, and unified user experiences across business applications and multiple channels at scale.

Extension Suite – Digital Process Automation

Automate repetitive and manual tasks with digitalized workflows and robotic process automation bots.

Predefined process content packages designed for specific lines of business and industries enable you to implement customizations quickly and easily.

Learn more about services in the Extension Suites in the SAP Discovery Center.

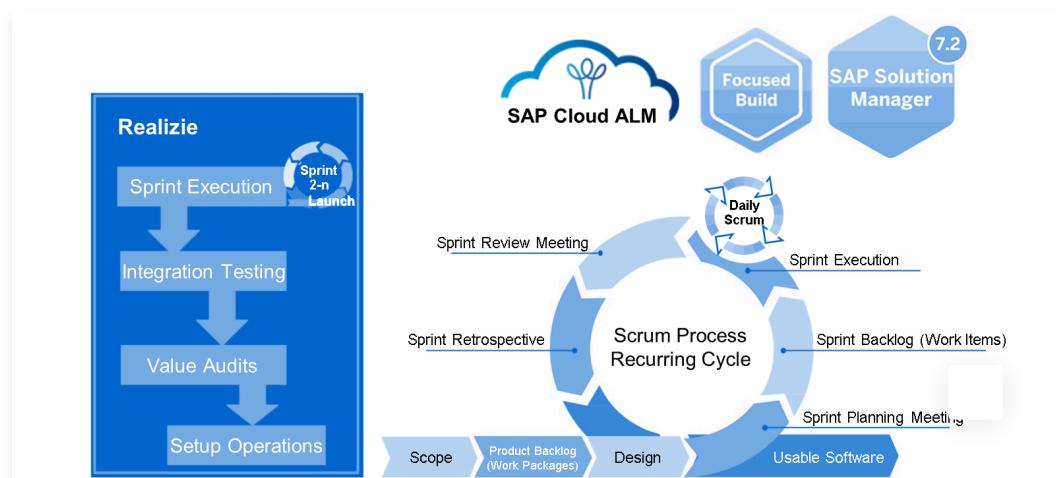


The Cloud Connector facilitates secure communication between SAP cloud solutions and protected on-premise networks that cannot be accessed directly from the internet and acts as a reverse invoke proxy component that is installed and runs on an on-premise network. Cloud connector is used in hybrid scenarios where cloud applications must access or extend on-premise software.

Compared to the approach of opening ports in the firewall and using reverse proxies in the DMZ to establish access to on-premise systems, the



- The Cloud Connector supports HTTP as well as additional protocols. For example, the RFC protocol supports native access to ABAP systems by invoking function modules.
- The Cloud Connector lets you propagate the identity of cloud users to on-premise systems in a secure way.
- Easy installation and configuration, which means that the Cloud Connector comes with a low TCO and is tailored to fit your cloud scenarios.
- SAP provides standard support for the Cloud Connector.

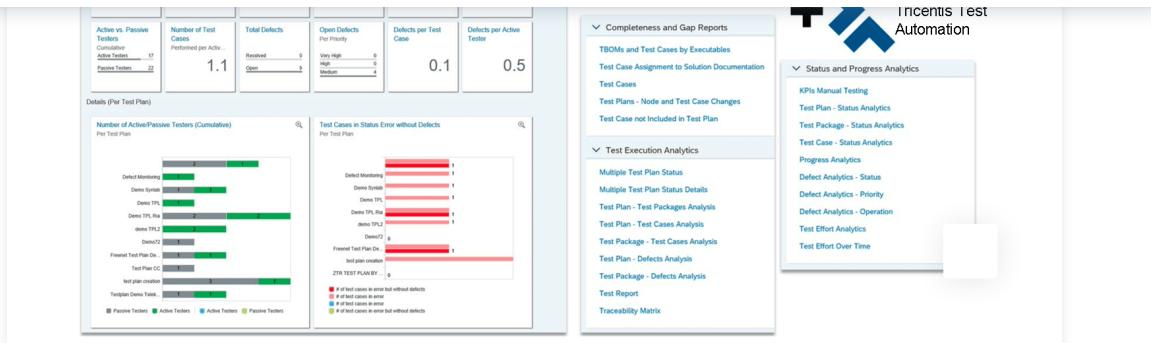


The Realize phase is where the configuration activities are performed. In this phase all requirements identified in the Explore phase are built and tested. This generally happens (implementation approach specific) using an agile development approach in SAP Activate.

Agile development refers to developing and delivering work in small, consumable increments. The unit to measure progress and cross team alignments is called a sprint. A sprint is a time-box to organize your implementation and development efforts to serve the purpose of incrementally building the solution.

To support agile development, you can leverage SAP Focused Build, which is a ready-to-run tool integrated with SAP Solution Manager for managing agile projects. SAP Focused Build has no additional cost, and supports building the solution in short, time-boxed sprints, with frequent inspection points by the customer.

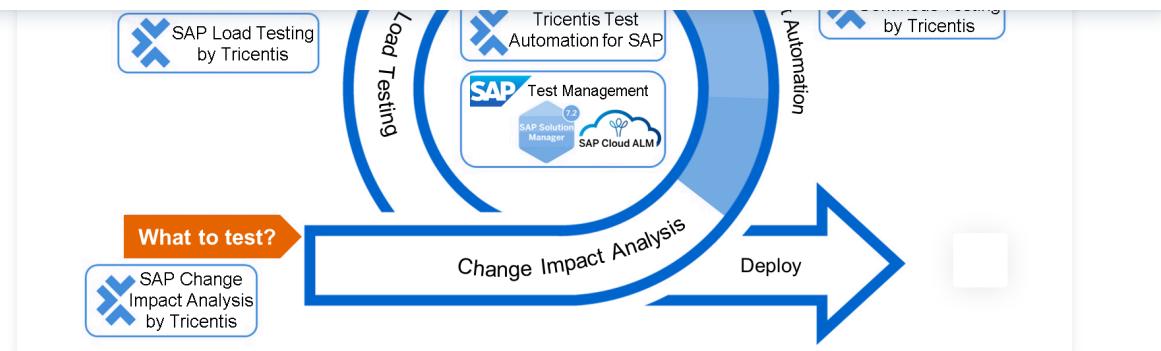
Focused Build for SAP Solution Manager in the SAP Help Portal.



The SAP Solution Manager Test Suite is used to manage and execute testing for SAP solutions on-premise. You can plan the scope of testing required for cross-system business processes, manage the tests centrally, and execute those tests.

The SAP Solution Manager Test Suite supports:

- Manual and automated functional tests
- Tests for SAP and non-SAP solutions
- Functional tests for on-premise, cloud, and hybrid solutions
- Automated change impact analysis of maintenance activities to reduce test scope based on software changes and smart calculations
- New requirements triggering semi-automated test planning for user acceptance tests and functional integration tests
- Supports agile development approach within requirements-to-deploy process through Focused Build for SAP Solution Manager
- Seamless integration with project management, process management, change and release management, defect and incident management, and custom code management components of SAP Solution Manager
- Full transparency into the test status and progress for all involved parties with test suite analytics
- Integration with third-party test tools



SAP and Tricentis have expanded their existing partnership where all customers with an SAP Enterprise Support agreement will be entitled to use Tricentis Test Automation for SAP as a term license. This will benefit customers in facilitating an easier transition to SAP S/4HANA and the intelligent enterprise.

Tricentis Test Automation will be available for all SAP customers under their SAP Enterprise Support contract. The partnership between SAP and Tricentis includes a reseller agreement, which enables customers to easily expand the test automation to enterprise test management that includes non-SAP components, by adopting SAP Load Testing by Tricentis, SAP Change Impact Analysis by Tricentis, or SAP Enterprise Continuous Testing by Tricentis.

- Manage your cloud solutions with SAP Cloud ALM and/or SAP Solution Manager
- Manage your Test Strategy with Tricentis and SAP Cloud ALM and/or SAP Solution Manager
- Manage Test Automation with Tricentis Test Automation for SAP
- Automate beyond SAP products with SAP Enterprise Continuous Testing by Tricentis
- Perform load and volume testing with SAP Load Testing by Tricentis

When compared to SAP S/4HANA Cloud (public cloud) implementation, SAP Fiori deployment is an additional consideration for new implementation of SAP S/4HANA on-premise. This is an activity that the project team must include part of the user experience strategy to identify any gaps with SAP Fiori apps not available inside of the standard solution.

Planning for the user experience is covered in more detail in this openSAP course [How to Deliver a Great User Experience with SAP S/4HANA](#)).



The screenshot shows a SAP Documentation page. At the top right is the SAP logo. Below it, the title 'Sizing Approaches for SAP HANA' is displayed, followed by 'Lesson Learned'. In the bottom right corner of the page area, there is a small watermark or logo. The page content discusses 'Sizing' and its definition as determining hardware requirements like memory, CPU power, disk space, I/O capacity, and network bandwidth. It is described as an iterative process translating business requirements into hardware needs, typically performed early in the project.

An additional consideration when implementing on-premise solutions, is sizing of the hardware. The size of the hardware and database is influenced by both business aspects and technological aspects. This means that the number of users using the various application components, and the data load they put on the network, must be taken into account.

With the help of SAP Standard Application Benchmark results at www.sap.com/benchmark, statements can be made as to CPU consumption and memory consumption of particular software components.

For sizing, we have identified three different and independent sizing models. The first two, user-based sizing and throughput-based sizing, have been implemented in the [QuickSizer](#).

User-based sizing

We defined three types of active users who work with the system to a different degree. Merely counting the users can be done quite easily. The estimation is quite rough as it says very little about the actual throughput these users produce.

Throughput-based sizing

This model is quite thorough as it calculates sizing on expected throughput. Assumptions in business terms (for example, number of order line items per year) need to be cross-checked against the individual installation.

Customer Performance Test



New Implementation SAP S/4HANA Cloud, Private Edition



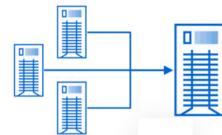
Full Scope and Country Coverage



Investment Protection



Flexibility and Extensibility



Cloud Scalability and TCO

SAP S/4HANA Cloud, private edition is a cloud-based solution with traditional characteristics known from On-Premise deployments.

- **Full Scope and Coverage:** Full functional SAP S/4HANA scope including LOB and industry processes
- **Investment Protection**
 - System conversions and brownfield migrations into the cloud
 - Application and technical operations out of ONE hand
 - Safeguarding prior investments into SAP systems
- **Flexibility and Extensibility**
 - Access to SAP S/4HANA Extensibility Framework
 - Side-by-side and in-app extensions
 - Code enhancement and code modifications
 - Expert configuration (full IMG access)
 - Scalable platform
- **Cloud Scalability and TCO**
 - Elasticity, resilience, and TCO of hyperscaler infrastructure
 - Technical operations done by SAP
 - Upgrades performed by SAP on customer request



The screenshot shows the SAP Learning Platform interface for a specific course. At the top, there are navigation links for 'Home', 'Browse', 'Courses', and the current course title. Below this, there's a summary section with icons and text for different implementation paths:

- RISE with SAP S/4HANA Cloud, private edition**: Represented by a cloud icon with a lock.
- SAP Best Practices for SAP S/4HANA**: Represented by a box icon.
- Enterprise Management Layer for SAP S/4HANA**: Represented by a globe icon.
- SAP® Qualified Partner-Packaged Solution**: Represented by a blue button-like icon.

On the right side of the summary, there's a gear icon and a 'Migration Cockpit' icon with the text 'SAP S/4H'.

The primary steps of a new implementation for SAP S/4HANA Cloud, private edition are:

- **Software Installation:** SAP provisions a new SAP S/4HANA instance in the cloud

• Preconfiguration Content Activation

Customers can choose one of the following preconfigured templates as a base for deployment:

- **SAP Best Practices for SAP S/4HANA**

- SAP Best Practices packages ensure system design uses a 'fit-to-standard' approach and accelerates the speed of implementation by providing a set of standardized business processes.
- SAP activates the selected SAP Best Practices process for the customer.
- The scope is preconfigured and based on the related package in SAP Signavio Process Navigator.

- **Enterprise Management Layer (EML) for SAP S/4HANA**

- The EML provides ready-to-run, preconfigured, localized core templates based on pre-activated SAP Best Practices.
- The EML is structured as a 'fully-activated appliance', where the system configuration is compressed into an image that can be quickly and easily deployed. The system is immediately consumable with full documentation of all business processes.
- The EML is the successor of SAP Model Company for Multinational Corporations.
- SAP installs the preconfigured EML appliance, which includes 43 country versions and the scope defined in the SAP Signavio Process Navigator. Additional templates can be activated by request at an additional cost

- **SAP Qualified Partner Packaged Solutions**

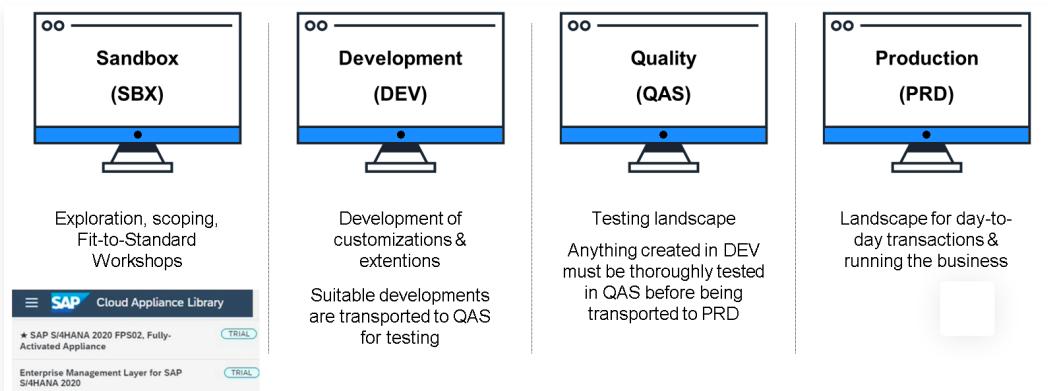


and includes implementation accelerators to shorten the deployment time.

- Find an SAP-Qualified Partner-Packaged Solution, Software Configuration.
- Configure and design the new SAP S/4HANA instance based on SAP best practices.

• Initial Data Load

- Transfer the business data needed to run the new system by loading master and open transactional data from the legacy system.
- The SAP S/4HANA Migration Cockpit facilitates migration of legacy data to the target SAP S/4HANA system. Two types of data are migrated.
- Master Data: Core business objects such as activity, cost center, bank master, customer, and supplier.
- Open Items: Open transactional data such as financial balances, sales orders, and purchase orders.



The SAP S/4HANA Cloud, private edition system landscape is as follows:

Sandbox (SBX)

SBX is used by implementation consultants to deliver fit-to-standard workshops to customer experts with the purpose of gathering configuration and customization requirement data.

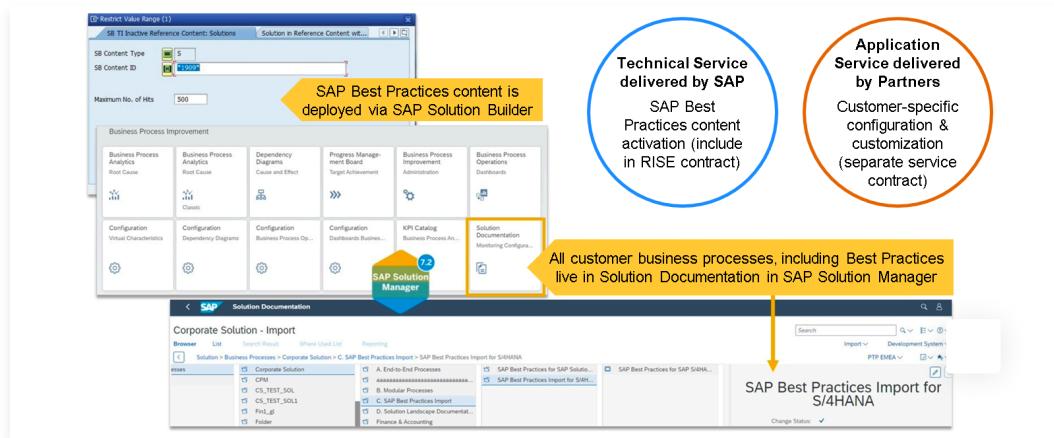
Development (DEV)

Development system is used for configuration and development of customizations and integrations. Once completed, these are transported to the quality system for testing.



Production (PRD)

Configuration from the quality system is transported to production system. The production system is used day-to-day to run the customer's business activities.



When deploying an SAP S/4HANA Cloud, private edition scenario, SAP activates the Best Practices process inside of the system through the technical service provided to the customer by SAP. Configuration Best Practices are only activated once in the development system. Transports are used to provide the quality and production systems with the business configuration defined in the development system.

The Best Practices documentation is available in SAP Cloud ALM. When customizing SAP Best Practices to a customer's requirements, do not edit the SAP Best Practices directly. Make a copy and edit the copy. Additional customer-specific content and supporting documentation is also created and maintained in Solution Documentation.

Five Golden Rules

When deploying an all-SAP solution, it is important to stick to the Clean Core concept, to foster a cloud mindset by adhering to fit-to-standard and agile deployment detailed in SAP Activate. These include:

- 1. Foster a cloud mindset by adhering to fit-to-standard and Agile deployment detailed in SAP Activate**
 - Leverage SAP Standard processes where possible
 - Deploy your solution incrementally with short releases and sprints
- 2. Use preconfigured solutions with defined processes:** Use SAP Best Practices, Enterprise Management Layer and/or partner templates



4. Use modern extensibility technologies

- Use SAP S/4HANA key user extensibility for in-app extensions
- Develop customer extensions in side-by-side approach using the SAP Business Technology Platform
- Leverage business logic extensibility within in-app extensibility. Avoid classic coding enhancements (for example enhancement points, BADI's, user exit and so on) where possible.
- No SAP standard source code modifications.

5. Ensure transparency on deviations

- Any deviation must be clearly documented as part of the implementation. This helps the customer to replace these with standard capabilities, if they are offered in the future.
- Use standard capabilities of SAP application life-cycle management tools to document the solution.



Learning

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following the high-level plan for the UX track in an implementation as shown here.

However, in comparison to the new implementation of SAP S/4HANA on-premise, the project team should work with the SAP HANA Enterprise Cloud contact to determine the scope, process, lead time, and so on, for performing some of the configuration and update activities. For example, activating SAP Fiori apps or applying SAP Notes. This kind of co-ordination and dependency is an additional consideration compared to SAP S/4HANA on-premise implementation, as some activities like using the Software Update Manager tool are SAP's responsibility when deploying a cloud-based solution.




SAP HANA Enterprise Cloud

SAP S/4HANA Cloud, private edition Roles and responsibilities

Included in S/4HANA Cloud, Single Tenant Edition

For customers with a single tenant edition of SAP S/4 HANA Cloud Package, the services categorized as "SAP S/4 HANA Cloud, Single Tenant Edition Services" are part of the standard HEC Services as defined in the SAP HEC Roles & Responsibilities document and are covered by the HEC Service Fee and performed by the HEC delivery organization, as applicable to customer.

Not all tasks or services listed in the HEC R&R are relevant to all customer environments. Certain tasks or services may not be available from SAP or certain SAP third party providers, and may not be available in certain regions. The availability of a specific service may also depend on characteristics of the specific customer situation (e.g. system size, solution scope etc.) and must be individually checked and confirmed with the CAA or CESMEL.

All tasks and work efforts not purchased by customer or not provided SAP as part of the HEC standard service but applicable to customer and its HEC Computing Environment are the responsibility of customer.

The PDF version of this SAP HANA Enterprise Cloud, Single Tenant Edition – Roles & Responsibilities (S4STE) document is available at <http://www.sap.com/corporate-en/about/corporate/policies/documents/roles-and-responsibilities.html>. The Document Customer acknowledges that a non-pdf version of this Roles & Responsibilities document may be made available for task and overall customer task management purposes, but such version shall not be considered Documentation.

Task comparison legend:
= Task is identical between HEC Production and HEC Projects
<> Task is different between HEC Production and HEC Projects; this may be that it is relevant only for one of the two HEC Services or that it is defined in a different way for each type of HEC Service

It is important to read through the roles and responsibilities document to understand the role of the customer and the role of SAP when deploying SAP S/4HANA Cloud, private edition. There are several services which are delivered by SAP under the agreement, as well as additional services that can be requested, some of which carry related costs.

[Next lesson](#)

Was this lesson helpful? 😊 Yes 😢 No



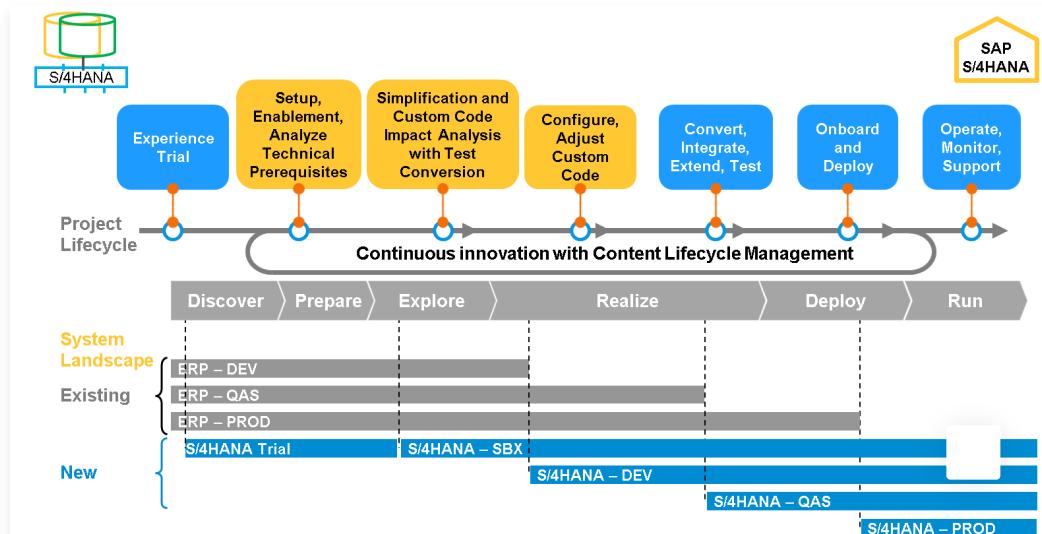
Analyzing System Conversion



Objective

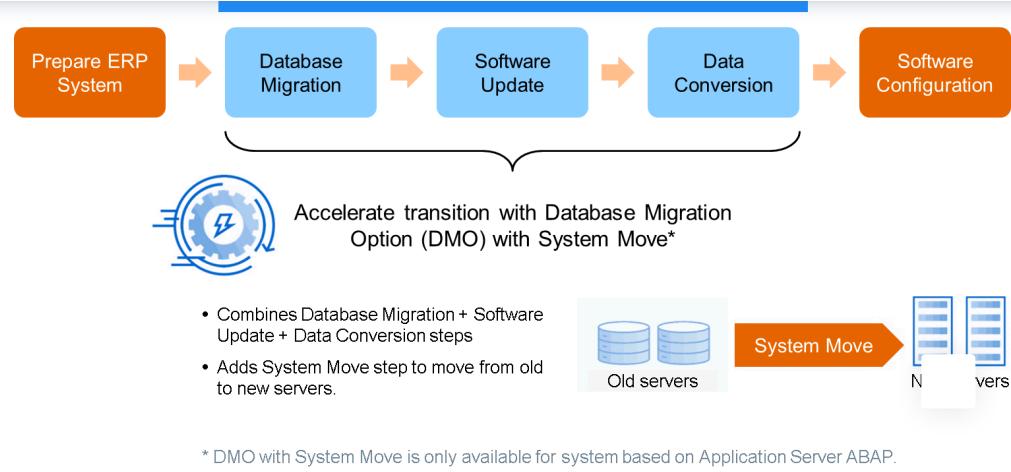
After completing this lesson, you will be able to analyze system conversion.

System Conversion



System conversion is a transition scenario that existing SAP ERP customers can opt to apply to convert their existing SAP ERP solution to SAP S/4HANA. This includes retaining their business data, custom development, and configuration. Customers choosing this scenario may want to minimize change initially and then innovate selectively going forward.

In a system conversion scenario (while alternatives exist), it is highly likely that the customer will invest in new hardware to run the SAP S/4HANA



These are some of the primary steps performed when converting an existing SAP ERP system into a new SAP S/4HANA system.

The primary steps of a system conversion are:

- 1. Prepare ERP System:** Clean up custom code and reduce data volumes
- 2. Database Migration:** Move to SAP HANA database (only if source is on a DB other than HANA)
- 3. System Update:** Provide new applications and tables
- 4. Data Conversion:** Convert table content to new data model.
- 5. Software Configuration:** Implement SAP S/4HANA mandatory and simplification items and reuse majority of existing processes

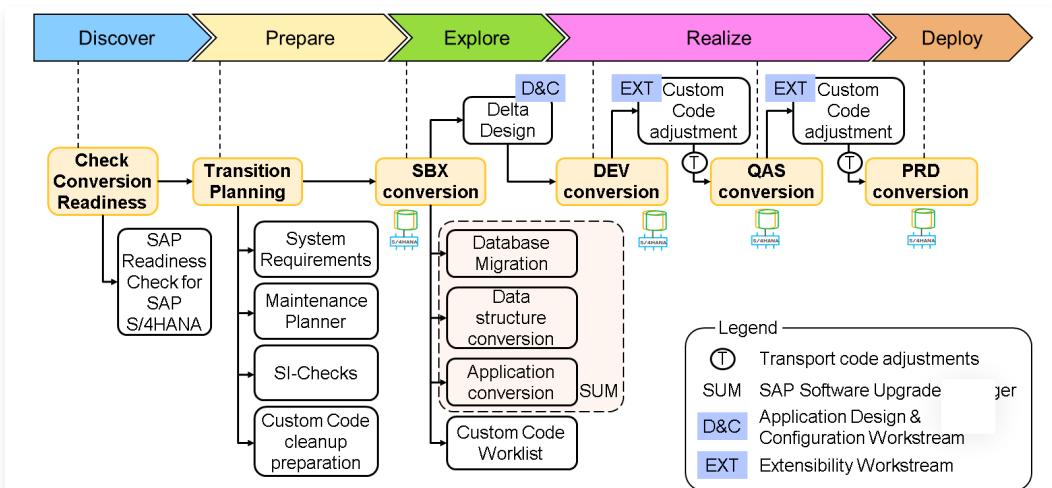
Software Update Manager (SUM) is the tool that facilitates the database migration, software update, and data conversion steps. The SUM creates a shadow repository on the target database. A shadow system consists of a shadow instance and a shadow repository.

Database Migration Option (DMO) is an optional feature of the Software Update Manager (SUM) tool. It combines three system conversion processes into a single step procedure: database migration + system update + data conversion.

System Move adds an additional step that facilitates migration to new data centers. The functionality reduces complexity, downtime, transition time, and costs of the system conversion by packaging multiple steps together and adding the system move to facilitate switching from the old servers to new servers in the target hyperscaler.



edition 2020.



The technical overview diagram displays a high-level view of the SUM (Software Update Manager) process. Software Update Manager is a tool used by the SAP Basis team to upgrade SAP on-premise software. This tool is also used in the system conversion scenario to upgrade the SAP ECC system to SAP S/4HANA.

There are other tools used in this process, which include:

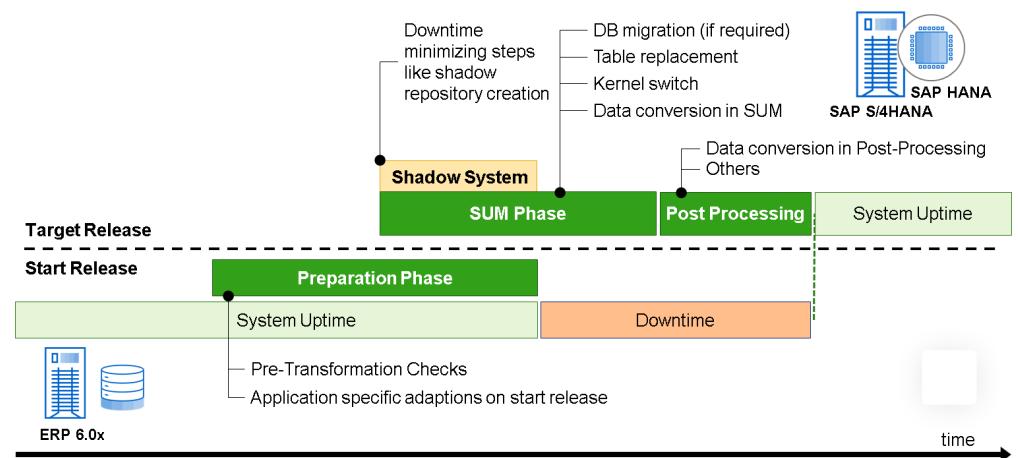
- **SAP readiness check:** Responsible for identifying which components need to be adjusted on SAP ECC in order to work on SAP S/4HANA
- **Maintenance planner:** Responsible for calculating the upgrade path



or checks on the Sandbox. After running the checks, SUM will fail and specify what components are not suitable for conversion. This list serves as baseline for the activities to be performed in order for the conversion to be completed successfully.

Once all SUM prerequisites are adjusted and/or adapted to work on SAP S/4HANA, the SUM process is started again and the sandbox system converted. This activity can be performed several times to the satisfaction of the project team. Once satisfied, the team will start the planning of converting the Development, Quality and Production systems.

System Conversion to SAP S/4HANA including HANA Migration with Data migration Option of Software Update Manager



DMO is available with Software Update Manager 1.0 SP09 and higher, and can be used for systems based on AS ABAP. It can be used for other target database types as well.

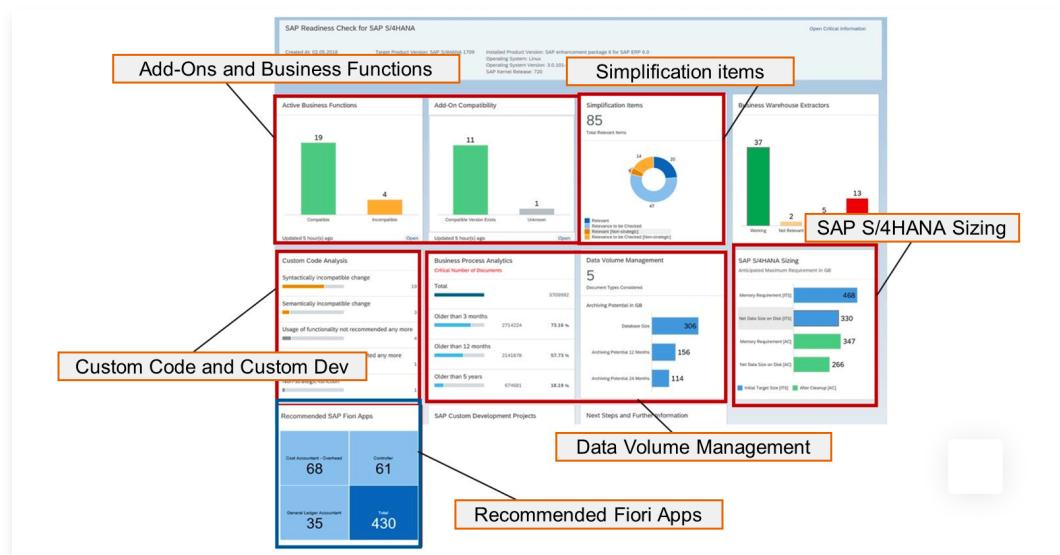
The processing sequence is based on the shadow system functionality of SUM. The SUM creates the shadow repository on the target database until downtime phase, while in parallel the SAP HANA database is setup (client, schema, and so on). Then the database connection of the SAP system is switched to the target database, and then the downtime starts. After migration of the application data (including data conversion), the upgrade is finalized and the SAP system runs on the target database. The source database continues to run and the application data in it is not modified, so it remains a fallback throughout, until the process is successfully completed.



The screenshot shows the SAP Readiness Check interface. It consists of four panels:

- Transfer Analysis Data:** Shows a progress bar at 85% and a summary of system properties.
- Explore Results:** A dashboard with various charts and metrics.
- Add-Ons and Business Functions:** A chart showing 19 compatible and 4 incompatible add-ons.
- Simplification items:** A chart showing 85 total items, with 14 relevant and 71 to be checked.

For the transition from SAP ERP 6.0 to SAP S/4HANA, SAP provides information about the relevant changes that might have an impact, grouped by simplification items, from the simplification item catalog. The SAP Readiness Check provides the subset of the simplification items that may apply to your analyzed system.



The following area is covered by the SAP Readiness Check for SAP S/4HANA:

• Add-Ons and Business Functions

- SAP Add-ons and business functions as well as third party add-ons have to be checked for their compatibility with SAP S/4HANA
- SAP software is listed and rated
- Third party software is listed only

• Custom Code and Development

- Custom code analysis versus SAP S/4HANA compliance, based on SAP simplification database



- **Data Volume Management**

Analysis of data volumes in sources system

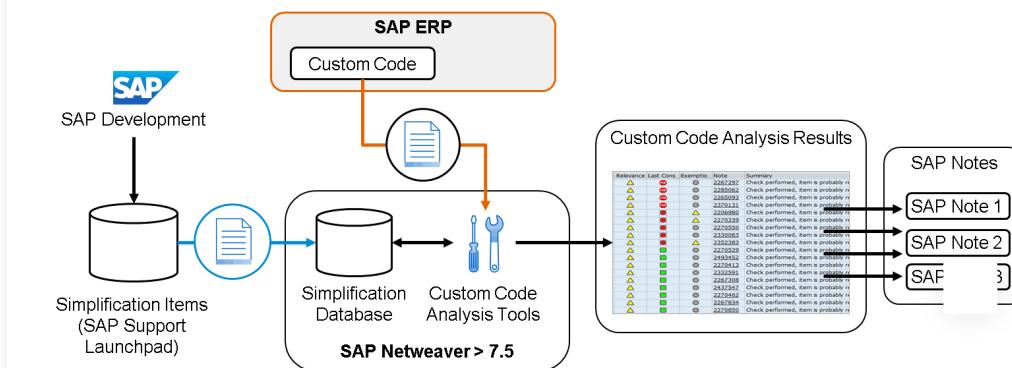
- Recommended SAP Fiori Apps

SAP Fiori deployment follows the same considerations as that for new implementation of SAP S/4HANA on-premise. This is an activity that the project team must take care of by following the high-level plan for the UX track in an implementation as shown here. SAP Fiori apps recommended based on the transaction usage history in the evaluated system will additionally help to determine the UX scope.

- SAP S/4HANA Sizing

The SAP S/4HANA sizing check lets you run a sizing simulation and provides information about your sizing values and data volume management potential. To calculate the right target SAP S/4HANA system size, consider the initial target SAP S/4HANA size calculated from your current SAP ERP database size, future database growth, possible data volume reduction, and potential new functionalities.

Simplification Item Checks (SI-Check) are based on Simplification Item Catalog provided through SAP Support Portal. Custom Code analysis tools in SAP Netweaver 7.5 compare custom code in SAP ERP with Simplification Catalog Items and provide guidance on custom code adoption, technical and functional implications and check consistency of configuration and data.

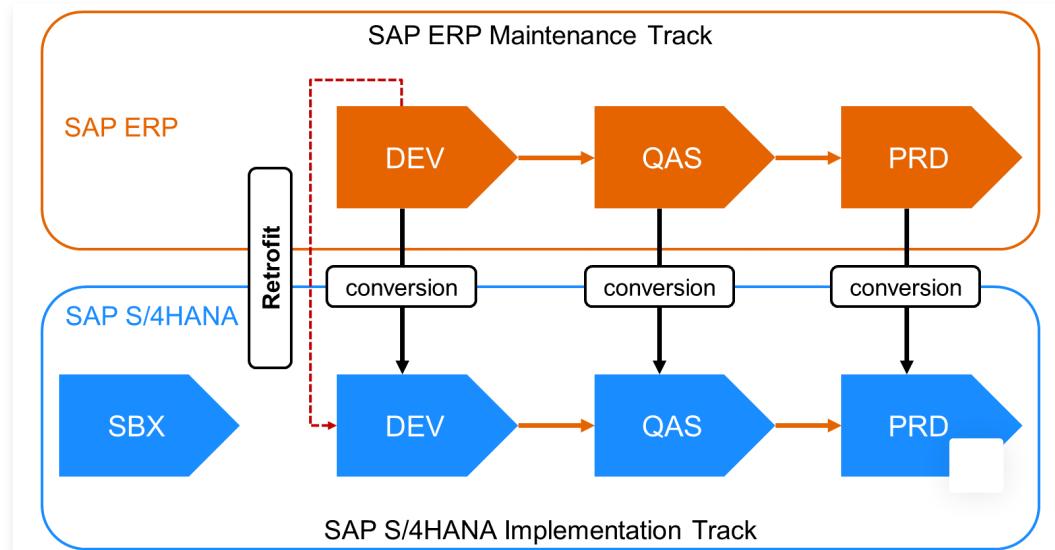


The Simplification Item Check serves two purposes:

- 1. Relevance check:** Determine which simplification items are relevant for the specific system in which you are running the simplification item check. This shall help you to assess the functional and technical impact of the system conversion on your system.
 - 2. Consistency check:** During the conversion process, your system will be migrated to the new data structures and new processes. The conversion routines rely on consistent data in the system in order for this to happen automatically. If the simplification item check identifies data



Simplification items check can be done and compared using the **simplification database**, which can be found in any SAP NetWeaver 7.5 system and above.



When performing a system conversion, new hardware is generally provisioned to support the SAP S/4HANA solution. This results in a temporary dual landscape (maintenance and project). The project landscape is an exact system copy of production (with data desensitized).

As the project team start their conversion activities, the maintenance team continue their business as usual changes through the maintenance environment. This means that every time a maintenance change goes through the maintenance landscape, the project landscape is now out of sync. We use Retrofit to keep the project environment in sync with the maintenance landscape. Retrofit copies the change into the project landscape to keep the environments in sync.

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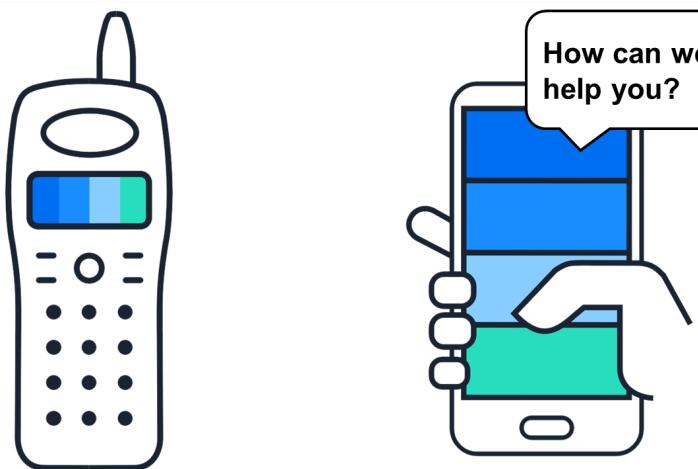
Describing challenges and opportunities transforming to SAP S/4HANA



Objective

After completing this lesson, you will be able to describe the challenges and opportunities transforming to SAP S/4HANA.

Challenges and Opportunities Transforming to SAP S/4HANA



Before we talk about the challenges and opportunities that customers face when they transform to SAP S/4HANA, let us take a moment to reflect why change far beyond what is required from a technical point of view is inevitable.





also on everyone's behavior. If you could not reach someone you could leave a voicemail or send a text message. If you wanted to meet a friend you no longer needed to tell him exactly when and where to meet, but simply say: give me a call when you are ready.

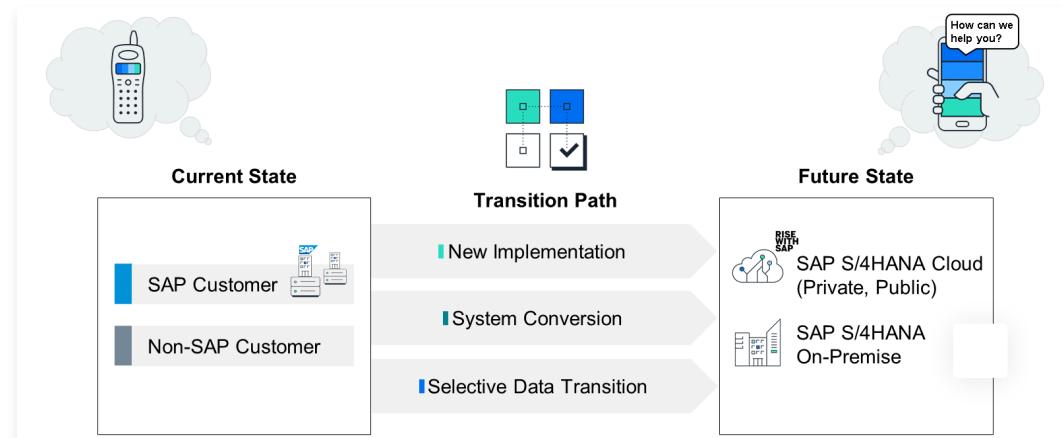
Fast forward to today – we still use cell phones but the way we use them has changed entirely as technology dramatically advanced:

- Some of you still do calls or send short messages, but most likely you have a favorite app, sending voice messages or pictures
- Your cell phone became your camera
- If you travel, you will for sure have an app that will give you a prediction when you should start or when you will arrive

These are just a few examples. Our experiences in our private life determines nowadays also our requirements for business applications – and the expectations of customers to organizations and their processes. Processes and applications need to be:

- Simple
- Fast
- Flexible
- Supporting instant communications
- Being accessible from anywhere, anytime

SAP ERP was built in the 90s. Like the cell phone, even though they will still run, they do not meet the requirements of today's world. Therefore, change is inevitable.





- Goal to simplify processes and provide a new user interface that can be accessed also via mobile devices

Existing SAP customers who have been running one or multiple SAP ERP systems for many years find themselves faced with not only the move to SAP S/4HANA and process changes, but very often even with a bigger cloud transformation project requiring even more processes to be redesigned. But also new SAP customers who have taken the decision to implement SAP S/4HANA must transform their legacy processes while implementing SAP S/4HANA.

The transition to SAP S/4HANA, Grow with SAP or RISE with SAP, has the goal to move to the Public Cloud or the Private Cloud. It requires to consider what is the right amount of systems that suits an organization best.

Taking into account the current state and the desired future there are three potential transformation paths that are possible:

- New Implementation
- System Conversion
- Selective Data transition

Customers might have already made a decision which transformation path is the right one for their organization or they are still uncertain which path to choose, and they might not have defined when they will move to SAP S/4HANA as both value and costs are unclear.

Irrespectively of the current state, the future state and the transition path, business process will change when moving to S/4HANA initially but also continuously beyond, as an ERP system needs to evolve as any business keeps changing and an investment into an ERP must generate value.

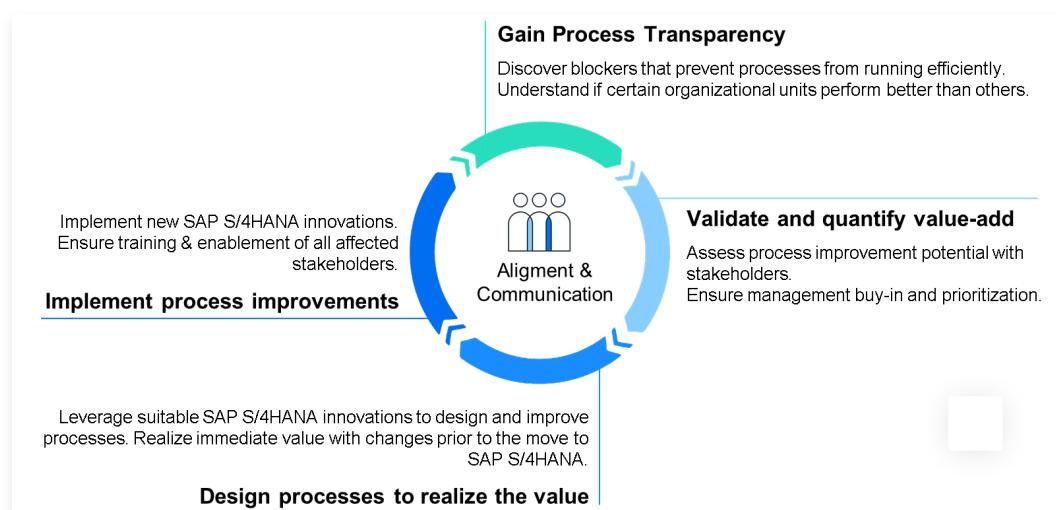
In line with the initial business process change a new implementation is often referred to a greenfield (as a high number of processes will be impacted). A system conversion is called brownfield (as the number of process that you will keep is higher) or as blue field/goldfield or any other mixed color to indicate that it is a combination of both.

While the initial amount of process change might be different, over time you will touch gradually almost all your business processes. This (business process) change results in challenges but also opportunities for which you



Adds value?

The transformation to SAP S/4HANA is for every organization a big project requiring a significant investment. Therefore, the first challenge that we discuss is: How does an organization ensure that the transformation adds value?



In order to ensure that the transition to SAP S/4HANA adds value to a business, an organization need to improve their business processes.

The starting point to any improvement is transparency on how processes are executed today. Most organizations that I have had the chance to work with had little or no transparency in their current process performance. Are there blockers that prevent the processes from running as efficiently as possible? Are there certain units of the organizations where processes are executed much better than in other units. The first step to achieve value is to gain process transparency.

In the next step, organizations need to validate the process improvement potential together with their business stakeholders and process experts, and make them quantifiable. By describing what value an organization can get from changing processes, it is possible to make an initial prioritization and focus where it matters most. Organizations also need to ensure that they overcome the resistance of any change by ensuring management buy-in. In summary, the next step that organizations must achieve is to make the value of change measurable.

If organizations have identified process improvement potential and qualified the value of the improvement, they then need to know how to



During the transformation, organizations implement new SAP S/4HANA Innovations to realize the defined process improvements in close collaboration between business and IT, enabling their users on the new way of working. Once have gone live with SAP S/4HANA, organizations start to measure the value contribution of the process improvements gaining process transparency again.

Throughout each step organizations need to ensure alignment among all stakeholders and communicate actively to connect the dots from initial findings to process changes being implemented.

Providing process transparency, making the value of change measurable and identifying how to change processes also allows organizations to ensure that their SAP S/4HANA transition is not just an IT initiative, but a business initiative. By showing quantifiable business benefits, organizations obtain management buy in to provide critical business resources to the project required to make change happen.

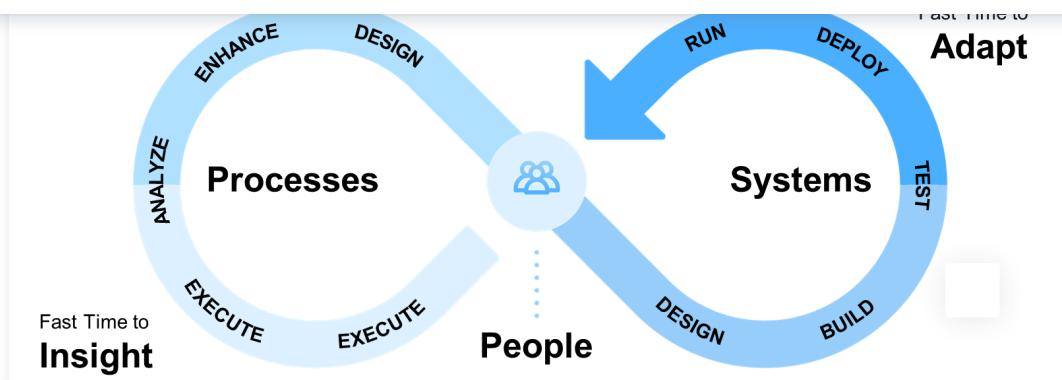
How Does an Organization Make Their Transformation As Fast As Possible

ERP transformations in general are widely known as being over time and over budget – and are by no means fast. Therefore, the second challenge that organizations are facing is: How does an organization make the transformation as fast as possible?

Fast time to adapt means to:

- Define target processes taking not only into account the already gained insights and recommendations but additional to leverage SAP Best Practice content, in other words don't start from scratch but take SAP standard as the basis for future processes that are validated in Fit-to-Standard workshop
- Be able to use the process design during the solution build, test and deploy which is supported by application lifecycle management with a tight integration avoiding data redundancy ('integrated toolchain')
- To ensure collaboration among all stakeholders in Business and IT

Fast Time to Insights and Fast Time to Adapt get facilitated by our end-to-end business process transformation methodology that you will get to know in more detail later.



To accelerate the overall transformation project, organizations need to shift up gears and shorten the lead time of the transformation phases.

Let's have a look at two key levers:

On the one hand, organizations should aim for Fast Time to Insights.

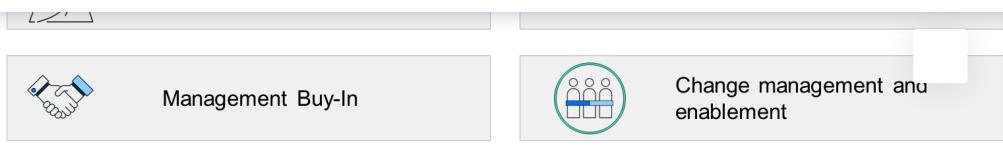
Fast time to insights means to:

- Gain quick insights 'where to change' by understanding how process are running today
- Getting recommendations 'how to change'

On the other hand organizations should aim for Fast Time to Adapt of process changes in IT systems they prioritized in the beginning.

How Does an Organization Ensure that Change Is Manageable?

You've probably heard the saying: "never change a running process or system - it works". This is usually done to avoid any change, as change is always associated with risk. Transparency of process change, and collaboration can reduce risk drastically and thereby making change manageable, change which is inevitable to add value. Therefore, the third challenge is: How does an organization ensure that change is manageable?



Making the transformation manageable builds upon the answers of the two previous questions.

Manageable means that organizations:

1. Follow a clearly structured transformation approach with a set of defined steps/milestone and objectives.
2. Make the transformation targets as well as the necessary process changes not only transparent to everyone but ensure that everyone supports them.
3. Have management buy-in for the project as it is a business initiative and not an IT-initiative.
4. Break down silos between all business and IT stakeholders – using processes as the vehicle.
5. Have sufficient human resources empowered to make decisions, in other words roles and responsibilities are clearly defined.
6. Embed change management and enablement into your transformation as a critical success factor.

SAP S/4HANA Transformations are Business Initiatives

If customers want to drive their SAP S/4HANA transformation they need to find answers to the three questions and associated challenges:

- How does an organization ensure that the transformation adds value?
- How does an organization make the transformation as fast as possible?
- How does an organization ensure that change is manageable?

SAP Signavio solutions will help customers to find answers for these challenges. In the next chapter, you will get to know SAP Signavio solutions before you get an overview how you can leverage them during your transformation to drive your SAP S/4HANA transformation to success.

The most important point again: SAP S/4HANA transformation are business initiatives and not IT projects.



Transformation Management will not only unlock the value that SAP S/4HANA brings to their organization by changing business processes, it



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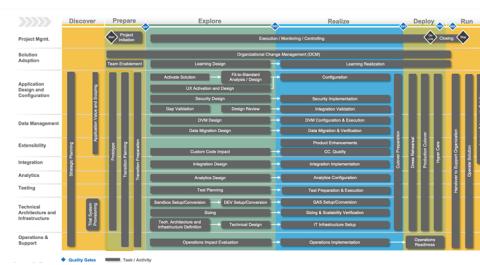
Describing how SAP Signavio supports S/4HANA transformation projects



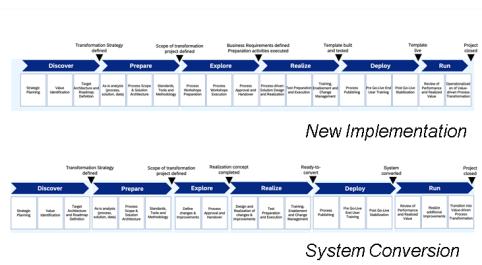
Objective

After completing this lesson, you will be able to describe how SAP Signavio supports S/4HANA transformation projects.

SAP Signavio Support in S/4HANA Transformation Projects



SAP Activate Methodology for Transition to SAP S/4HANA describes activities across numerous workstreams (e.g. project management, integration) partly only covering the process dimension of a transformation.



SAP Signavio for SAP S/4HANA transform methodology describes all activities related process dimension supporting a value-driven transformation.

To fully embrace process transformation as part of an SAP S/4HANA transformation, the process dimension plays an important role in all phases of a transition. SAP Activate provides a clear guided methodology to deploy, adopt and extend new capabilities across any organization for various types of cloud and on-premise solutions in general.





beyond business process management. The activities are grouped into different workstreams such as application design and configuration, integration or extensibility. The process dimension is covered in the SAP Activate roadmap already, but not to its full extent, and not in all details.

The SAP Signavio for SAP S/4HANA transformation projects methodology is an end-to-end business process transformation methodology which is SAP Signavio specific and covers also various integration aspects such as the integration with Application Lifecycle Management. The focus lies only on all activities in relation to the analysis, design and improvement of business processes. The activities are grouped into key steps such as the analysis of processes, the design or the enablement. They are either supporting existing individual SAP Activate tasks or entire phases. They accelerate the SAP Activate tasks by data driven insights, and digitalize the results as the basis for a continuous improvement process - after all, the transition to SAP S/4HANA is "just" one key process transformation milestone, with many more to come as business needs arises.

SAP Signavio for SAP S/4HANA Transformation - New Implementation and System Conversion Scenarios Characteristics

The methodology covers two key transition scenarios: New implementation and System conversion. The following table provides an overview of the characteristics of both scenarios.

SAP Signavio for SAP S/4HANA Transformation - New Implementation and System Conversion Scenarios Characteristics



	Projects with one single go-live: Build of a new SAP S/4HANA template (target solution) followed by a go-live in one step Multi-national or multi-site deployment projects: Roll-out of a template followed by subsequent roll-out locations / business units (several Go-Live events), the template is continuously updated based on learnings from previous deployments	Value-driven transformation projects: The target is to achieve process improvements in case there is a positive business case. The transformation is considered as a chance for improvement and innovation.
IN SCOPE		Pure technical lift & shift projects: The target is to focus on mandatory activities only. The effort of setting up Business Process Management in SAP Signavio will not justify the expected
OUT OF SCOPE		