



SAP S/4HANA Migration Cockpit

SAP S/4HANA 2020 FPS01

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SAP S/4HANA Migration Cockpit
[SAP S/4HANA Cloud \(ES\), 2105](#)

Mai 2021

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Agenda

Introduction – your way to SAP S/4HANA

Overview - Functions and Process

Different Migration Approaches

File/Staging

Direct Transfer

Direct Transfer Scenarios

Summary

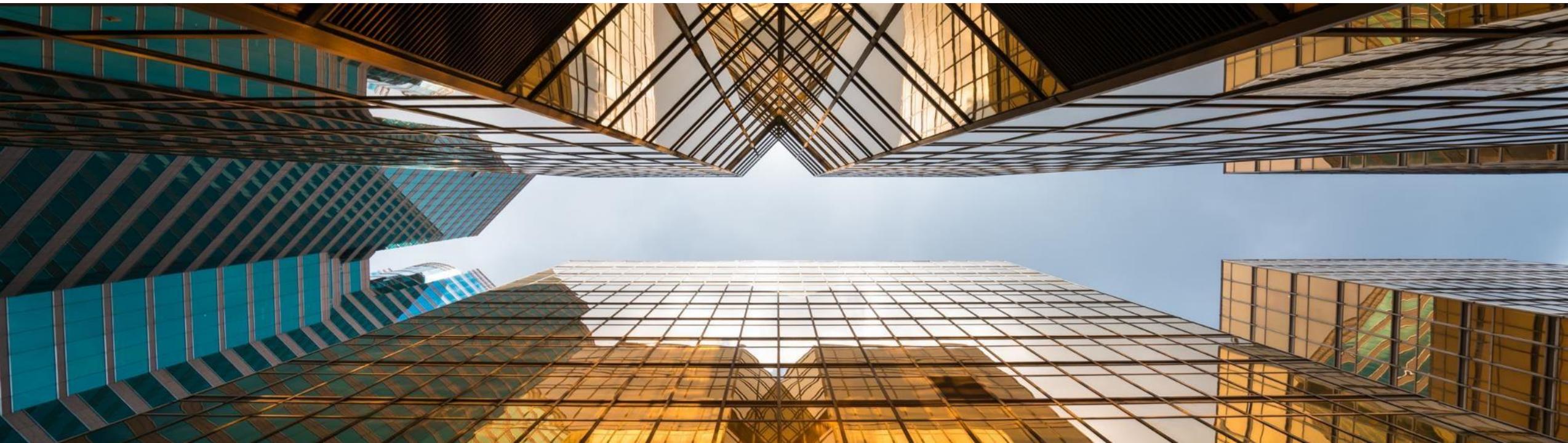
Migration Objects

Further Information

Key Takeaways

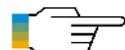
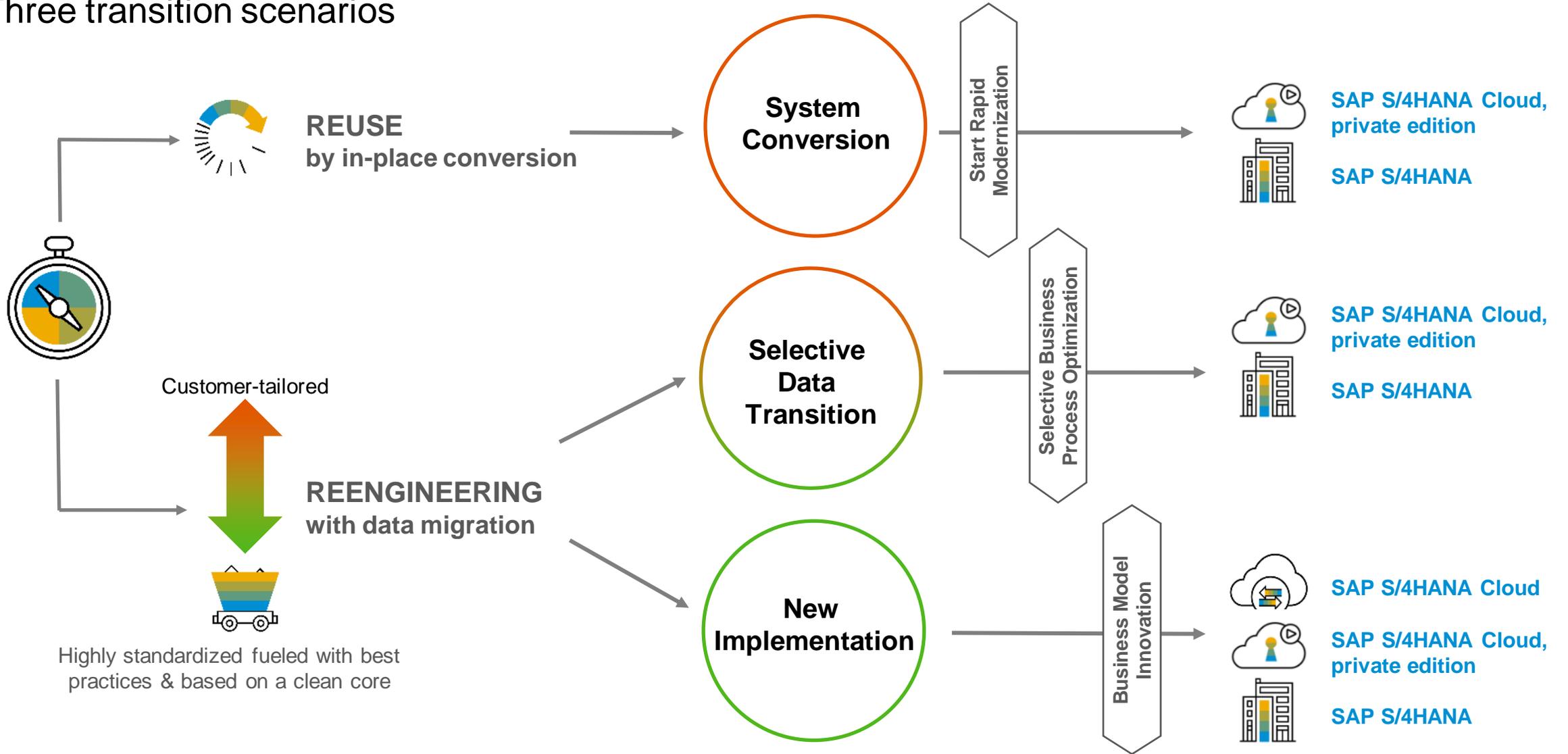
Appendix

Introduction – **Your Way to SAP S/4HANA**

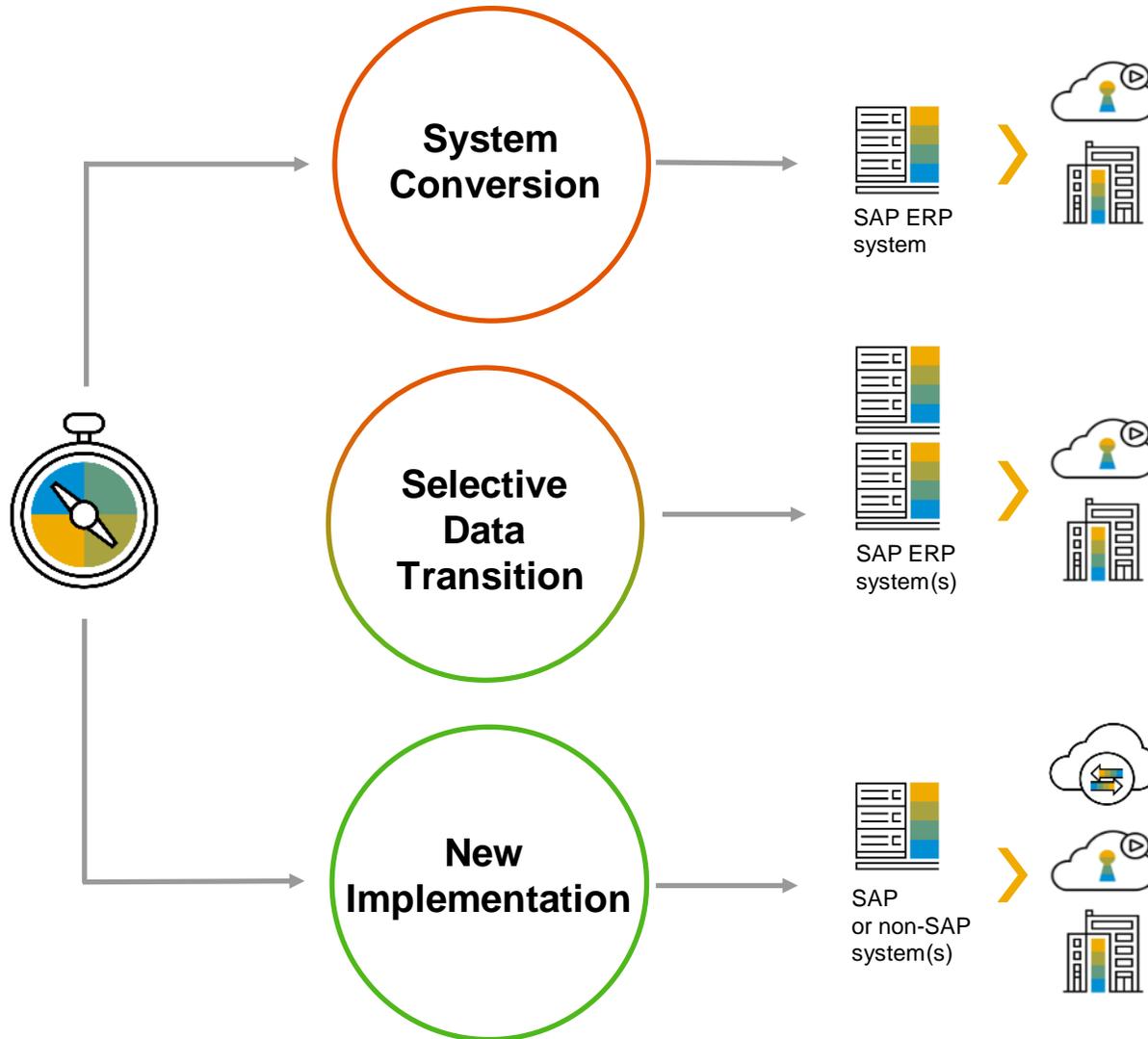


Your Way to SAP S/4HANA in General

Three transition scenarios



Your Way to SAP S/4HANA Detailed



Bring your business processes to the new platform

- A complete technical in-place conversion of an existing SAP ERP system to SAP S/4HANA
- Adopt new innovations at your speed
- Delivery model: included in SAP S/4HANA shipment

Partly re-use, partly re-implementation

- Covers the migration of relevant business data from SAP ERP to SAP S/4HANA
- Allows to combine redesign of business processes with retaining historical data
- Realized by a combination of standard functions used for a new implementation or system conversion together with complementing expert functions which are not released to general availability
- Delivery model: as a service / consulting project

New implementation/re-implementation

- Reengineering and process simplification based on latest innovations
- Highly standardized, fueled with best practices & based on a clean core
- Implement innovative business processes with preconfigured best practice content on an innovative platform
- Migrate your master data and retire old landscape
- Delivery model: included in SAP S/4HANA shipment

Your Way to SAP S/4HANA

SAP S/4HANA migration cockpit

- Part of SAP S/4HANA and SAP S/4HANA Cloud (included in these licenses)
- Supports customers with the “New Implementation” scenario
- SAP’s recommended approach for the migration of business data to SAP S/4HANA and SAP S/4HANA Cloud

Bring your business processes to the new platform

- A complete technical in-place conversion of an existing SAP ERP system to SAP S/4HANA
- Covers the migration of relevant business data from SAP ERP to SAP S/4HANA
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**New
Implementation**

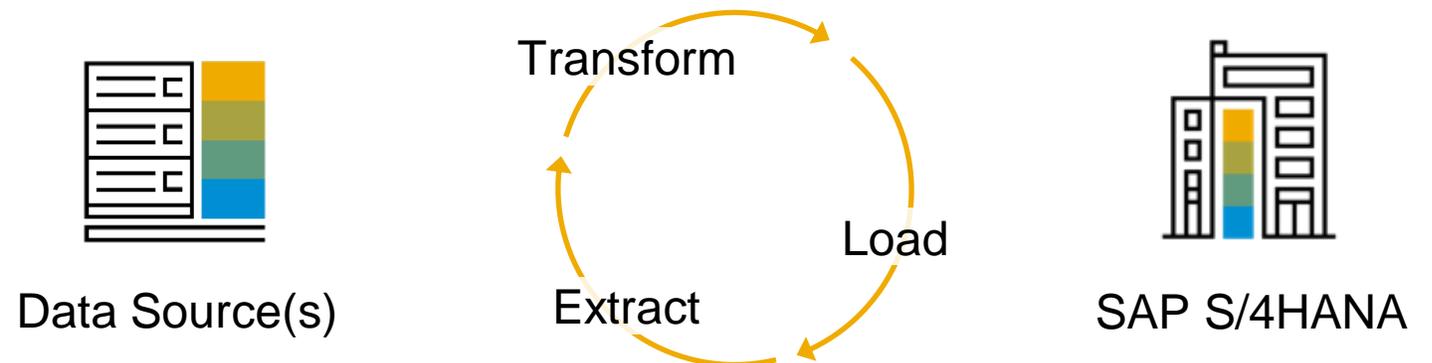
SAP
or non-SAP
system(s)



Introduction to Data Migration

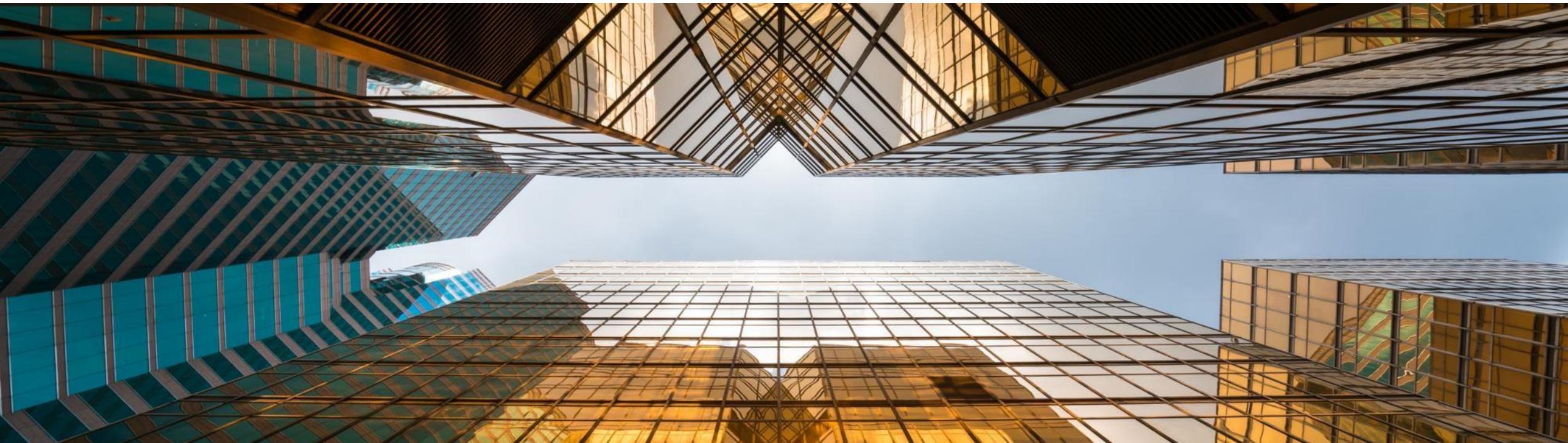
Your SAP S/4HANA migration requirements

- Migrate data from SAP systems and non-SAP systems to SAP S/4HANA and SAP S/4HANA Cloud
- Provide a comprehensive migration solution with no programming required by the customer
- Include mapped data structures between source and target systems
- Reduce test effort
- Make the migration solution auditable



SAP S/4HANA Migration Cockpit

Overview – Functions and Process



SAP S/4HANA Migration Cockpit at a Glance

Data migration to SAP S/4HANA: Easy, safe, and accelerated

Key facilitators

- Out-of-the-box
- Available for SAP S/4HANA and SAP S/4HANA Cloud, included in licenses
- Facilitates the transfer of business data (master data and open transactional data)
- No developer skills required
- Step-by-step guidance through the migration process
- Preconfigured migration objects and rules
- Automatized cross-object value mapping
- Initial load

Migration object modeler for custom requirements

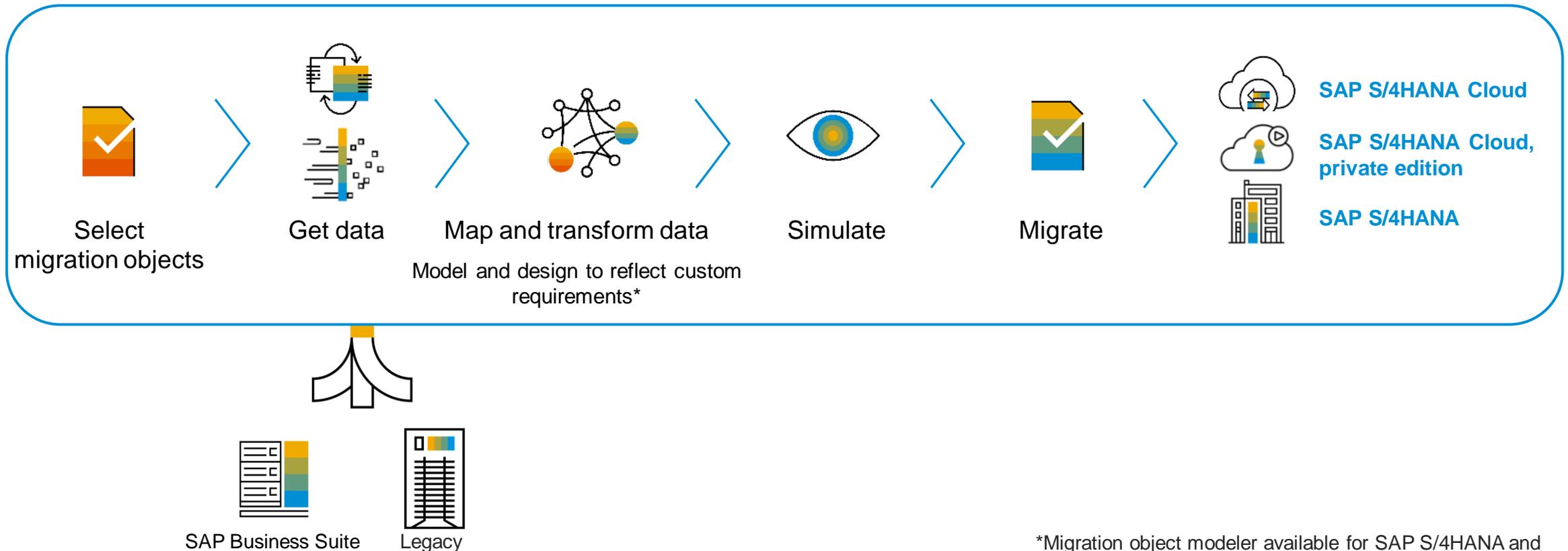
Powerful and easy-to-use state-of-the-art modeling environment (SAP S/4HANA only)



Data Migration Process for New Implementation

Data migration

- This is one key task during the transition to SAP S/4HANA
- Make sure to understand your requirements early and plan for them accordingly



*Migration object modeler available for SAP S/4HANA and SAP S/4HANA Cloud, private edition only

SAP S/4HANA Migration Cockpit

In detail: Preconfigured migration content



Key benefits

- Content (= migration objects) covers all best practice migration objects for **master data and transactional data***
- Automated mapping between source and target structure
- Migration programs are automatically generated – no programming required by the customer
- Standard APIs are used to post the data to SAP S/4HANA system

*Examples transactional data:

- FI: open items, balances
- LO: inventory

no historical data

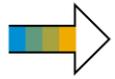


SAP S/4HANA Migration Cockpit

In detail: Migration object modeler



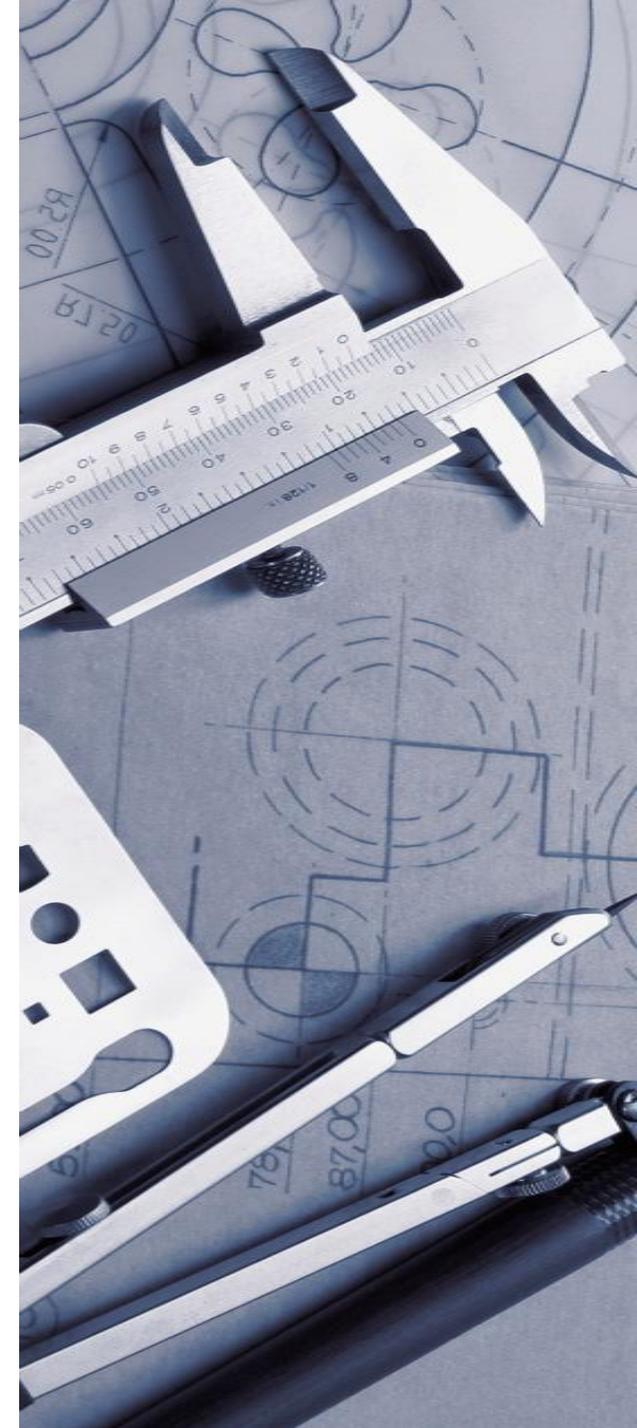
Flexible and extendable



Easily integrate custom objects and enhancements into the migration project

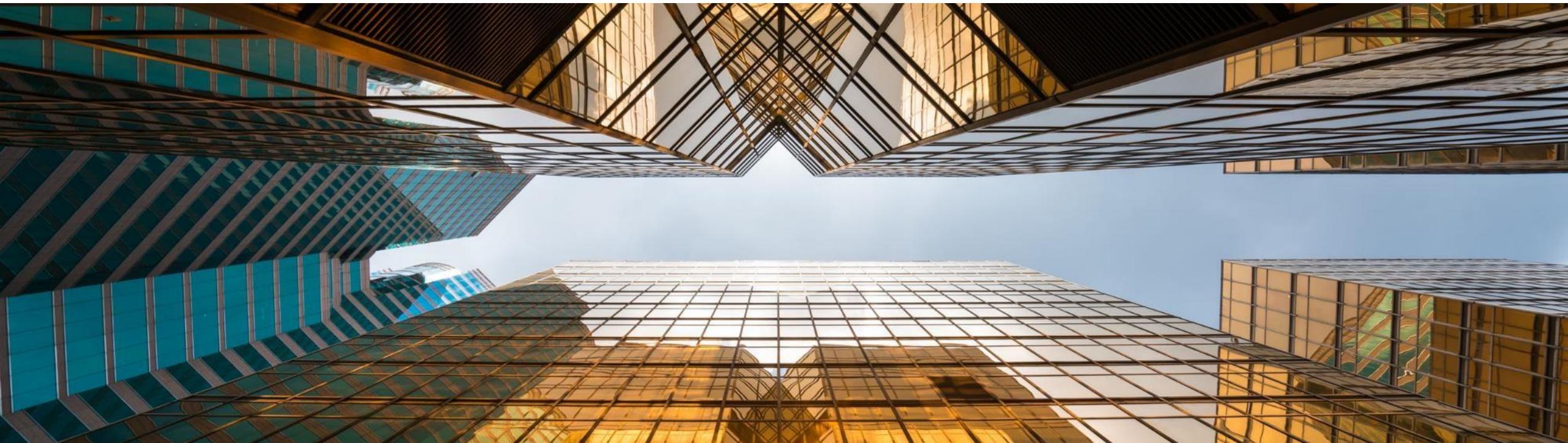
- Customer-specific enhancements to SAP standard objects delivered with the SAP S/4HANA migration cockpit
 - Easily adjust input structure
 - Map structures and fields
 - Add or change migration object selection criteria (Direct Transfer)
- Integration of newly created objects
 - Custom objects
 - SAP standard objects that are not yet in the scope of the SAP S/4HANA migration cockpit
 - Use standard APIs or code your function module

Transaction:
LTMOM



SAP S/4HANA Migration Cockpit

Different Migration Approaches



SAP S/4HANA Migration Cockpit

Migration approaches until SAP S/4HANA 1909 - recap



Transfer data using files

- Download template file for relevant migration object
- Populate file with relevant business data
- Upload file to the SAP S/4HANA migration cockpit



Transfer data using Staging Tables

- Staging Tables are created automatically (in an SAP HANA DB schema)
- Populate Staging Tables with business data
- Transfer data from Staging Tables to target SAP S/4HANA system



Transfer data directly from SAP System (new with SAP S/4HANA 1909)

- Transfer data from SAP ERP source system to target SAP S/4HANA system
- Access source system through RFC connection
- Supports data migration scenarios from other applications
- for example from SAP Apparel and Footwear (SAP AFS) to SAP S/4 Fashion and Vertical Business, SAP Extended Warehouse Management (SAP EWM) to Decentralized EWM

SAP S/4HANA Migration Cockpit – Migration Approaches



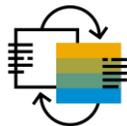
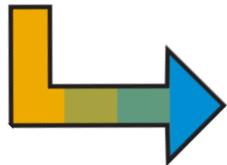
Transfer data using files

- Download template file for relevant migration object
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Transfer data using Staging Tables

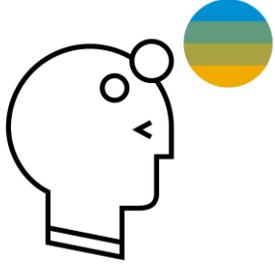
- Staging Tables are created automatically (in an SAP HANA DB schema)
- Populate Staging Tables with business data
- Transfer data from Staging Tables to target SAP S/4HANA system



Migrate data using Staging Tables

- Staging Tables are created automatically (either locally or in a remote system)
- Populate Staging Tables with business data
 - ✓ Using XML template files is one possibility to populate Staging Tables
 - ✓ Using SAP or third-party ETL tools is another possibility to populate Staging Tables
- Transfer data from Staging Tables to target SAP S/4HANA System

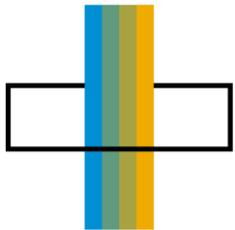
SAP S/4HANA Migration Cockpit – Benefits for Combined Approach



- Mix file and staging possibilities in one approach (= one project)
- Easier way to populate Staging Tables
- Instance-based status tracking and messages
- Improved capability of downloading & uploading mapping values



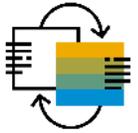
- All data is stored in Staging Tables
- Use either local SAP S/4HANA DB (local connection) or remote SAP HANA DB connection
- Delivered XML template files ease population of Staging Tables
- Still other tools (external or SAP) can be used for populating Staging Tables



- State-of-the-art user experience with Fiori UI
- Faster UI response time
- Processing of multiple objects at once possible
- Progress tracking during simulation / migration

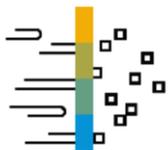
SAP S/4HANA Migration Cockpit

Migration approaches from SAP S/4HANA 2020 onwards



Migrate data using Staging Tables

- Staging Tables are created automatically (either locally or in a remote system)
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 - ✓ Using SAP or third-party ETL tools is another possibility to populate Staging Tables
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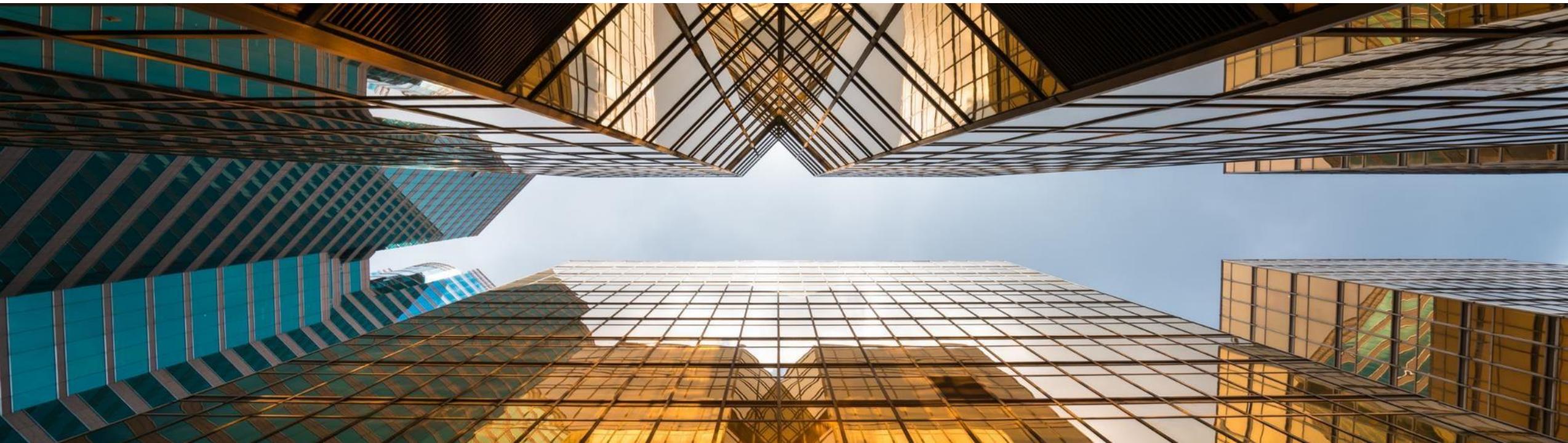


Migrate data directly from SAP system

- Transfer data from SAP ERP source system to target SAP S/4HANA system
- Access source system through RFC connection
- Supports data migration scenarios from other applications
for example from SAP Apparel and Footwear to SAP S/4HANA for fashion and vertical business,
SAP Extended Warehouse Management(SAP EWM) to decentralized EWM

SAP S/4HANA Migration Cockpit

Migrate Data Using Staging Tables



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



Fiori App Migrate Your Data



Excel XML template files
or other tools of choice

Process & content

1. General Data

Migration Approach: Migrate Data Using Staging Tables

Name: * MS_Logistics

Mass Transfer ID: * M02

Database Connection: Local SAP S/4HANA

2. Migration Objects

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress
<input type="checkbox"/> Bank	Tables: 1 Instances: 999998	Open: 0 Done: 2	Errors: 0 Successful: 0	Errors: 0 Successful: 999998 Not Started: 0	100%
<input type="checkbox"/> Customer	Tables: 25 Instances: 0	Open: 2 Done: 1	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started

Data load



SAP S/4HANA Cloud



SAP S/4HANA Cloud,
private edition



SAP S/4HANA

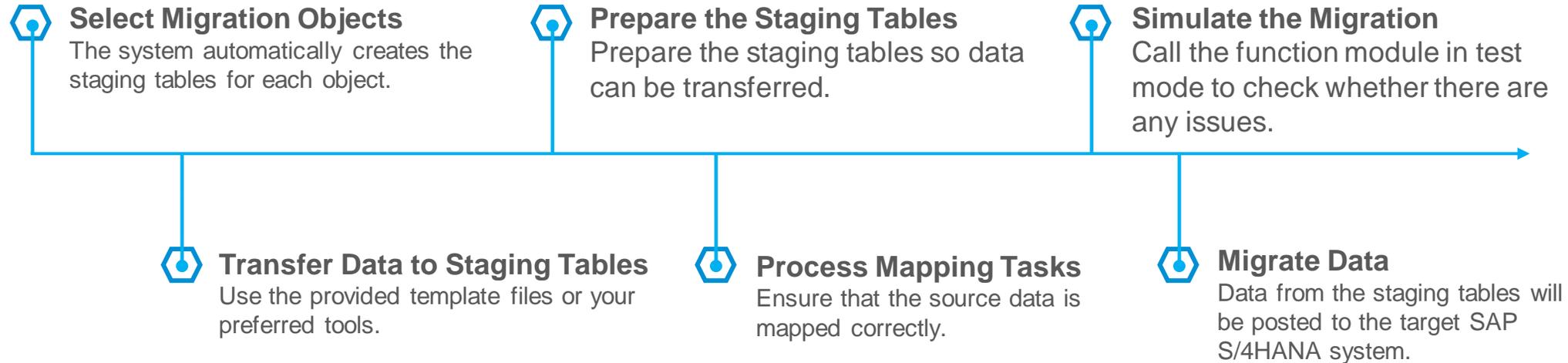
SAP S/4HANA 2020: 120+



Migration objects

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

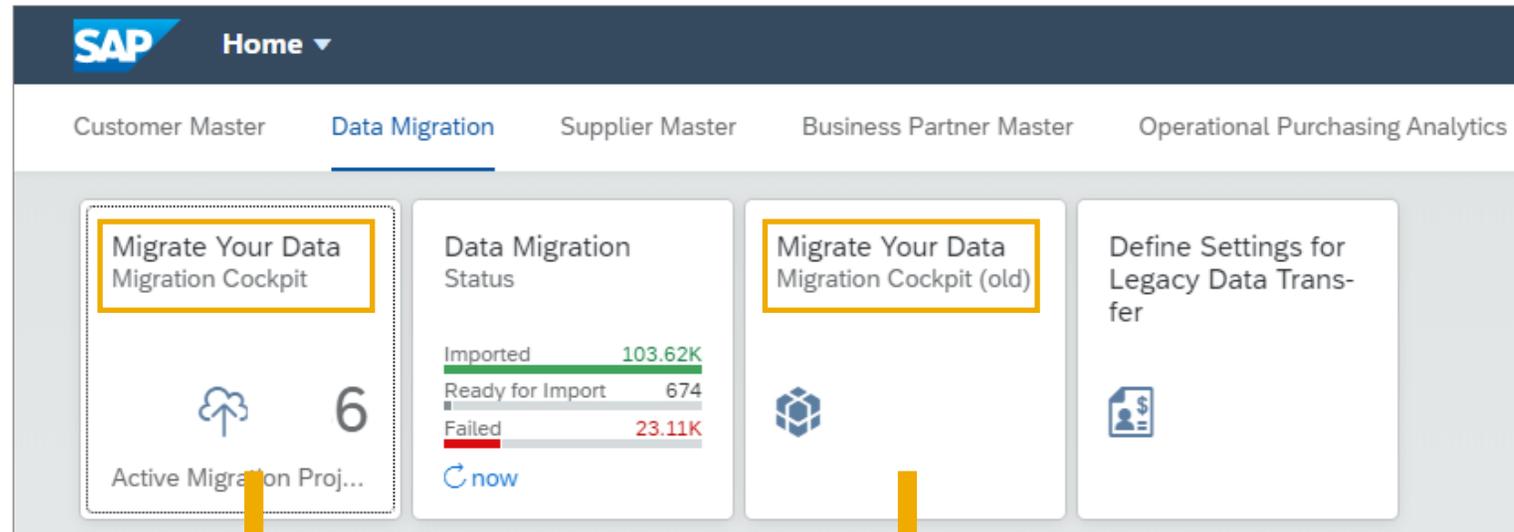
Process flow





SAP S/4HANA Migration Cockpit – Available Apps

Deprecation information in different versions



- New SAP Fiori app available from SAP S/4HANA Cloud (ES), 2008 onwards
- Projects created through this app can only be accessed from here (no “old” ones)

- Project created through LTMC can only be accessed within LTMC
- 2021: existing projects in LTMC will be still available in display mode – no creation of new projects possible



Recommendation

- Projects are only be accessed in the SAP Fiori app where they have been created.
- If you are already in a migration project right now and approaching Go-Live, use the “old” app.
- If you start from scratch, use the “new” app as there is more functionality available.



Details in [KBA 2988692](#)

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



Create new project I

The Fiori App includes now both migration approaches. Choose your migration approach.

The screenshot shows the SAP Migration Projects Fiori app interface. At the top, there is a navigation bar with the SAP logo and 'Migration Projects'. Below this, there are filter fields for Name, Status, Created By, Migration Approach, and Connection to Source System. A search bar is also present. The main content area displays a list of migration projects. A callout box highlights the migration approaches: 'Migrate Data Directly from SAP System' and 'Migrate Data Using Staging Tables'. The table below shows various projects with their status, creation dates, and migration approaches.

There are two options to transferring data to S/4HANA:

- Migrate data directly from SAP system
- Migrate data using Staging Tables

Migration Projects (835)	Migration Approach / Scenario	Migration Objects
<input type="checkbox"/> Name		
<input type="checkbox"/> Test_Lisa		
<input type="checkbox"/> Maintenance_Notification	Migrate Data Using Staging Tables Database Connection Local	2 >
<input type="checkbox"/> Variant_Table_Structure	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HAN	1 >
<input type="checkbox"/> lat_test	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	6 >
<input type="checkbox"/> Demo_DT_2020	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	2 >
<input type="checkbox"/> Material_Consumption	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	1 >
<input type="checkbox"/> Equipment	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	1 >
<input type="checkbox"/> Material_Commodity	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	1 >

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Create new project II



Specify details for your migration project.

1 General Data — 2

1. General Data

Here, you specify general information for your project. Note that it will not be possible to change the mass transfer ID or the database connection after you create the project.

Migration Approach: Migrate Data Using Staging Tables

Name: *

New Migration Project

Mass Transfer ID: *

OLU Display Next Available

Database Connection: *

Local SAP S/4HANA Database Schema

Remote SAP HANA Database Schema

Step 2

Cancel

Local SAP S/4HANA database

- System will generate Staging Tables in the internal schema of the SAP S/4HANA system
- Use this option if you only want to use XML template files to fill the Staging Tables with data

Remote SAP HANA database

- System will generate Staging Tables in a remote SAP HANA DB Schema
- Prerequisite: valid database connection (please refer to [KBA 2733253](#))
- Select this option if you want to fill the staging table with data by using your preferred tools



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Create new project – choose migration objects

The migration cockpit delivers a larger quantity of migration objects depending on the selected migration scenario.

2. Migration Objects

In this step, you add the relevant migration objects to your project. Note that you can add additional migration objects after you create a project.

prod

Available Migration Objects

<input type="checkbox"/>	Name	Predecessor	Documentation
<input type="checkbox"/>	DG - Assessment for packaged product (text-based)	1	Documentation
<input type="checkbox"/>	DG - Assessment for unpackaged product (content-based)	1	Documentation
<input type="checkbox"/>	DG - Assessment for unpackaged product (text-based)	1	Documentation
<input checked="" type="checkbox"/>	Product	2	Documentation
<input checked="" type="checkbox"/>	Product - extend existing record by new org levels	3	Documentation
<input type="checkbox"/>	Product classification - Commodity code	1	Documentation
<input type="checkbox"/>	Product classification - Legal control	1	Documentation
<input checked="" type="checkbox"/>	Product consumption	1	Documentation
<input type="checkbox"/>	Production version	3	Documentation

Review

Selected Migration Object

<input type="checkbox"/>	Name	Predecessor	Documentation
<input type="checkbox"/>	Product	2	Documentation
<input type="checkbox"/>	Product - extend existing record by new org levels	3	Documentation
<input type="checkbox"/>	Product consumption	1	Documentation

Review

Select migration objects - click on button 

To continue with next step click on "Review" 

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



Create new project – confirm

The migration cockpit creates the project with your selected migration objects.

The screenshot displays the 'New Migration Project' configuration page in the SAP S/4HANA Migration Cockpit. The page is divided into two main sections: '1. General Data' and '2. Migration Objects'.

1. General Data

- Name: New Migration Project
- Mass Transfer ID: OLU
- Migration Approach: Migrate Data Using Staging Tables
- Scenario: Default Scenario
- Database Connection: Local SAP S/4HANA Database Schema

2. Migration Objects

Name	Predecessor	Documentation	Edit
Product	2	Documentation	Edit
Product - extend existing record by new org levels	3	Documentation	
Product consumption	1	Documentation	

A callout box with a yellow border contains the text: "Confirm your data selection by choosing the *Create Project* button." Next to this text is a blue button labeled "Create Project".

At the bottom right of the screen, there are two buttons: "Create Project" (blue) and "Cancel" (grey).



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Migration project screen – more buttons

On the **migration project** screen, you trigger all the steps that are required to transfer the data for each migration object to the target SAP S/4HANA system. In addition you can quick access additional information and tasks.

The screenshot displays the SAP S/4HANA Migration Cockpit interface. At the top, there is a navigation bar with the SAP logo and 'Migration Project' dropdown. Below this, the main header shows 'New Migration Project' with a 'Running Activiti...' indicator and a '0' count. A yellow box highlights a navigation menu with buttons for 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. The main content area shows migration objects with columns for 'Migration Object', 'Data', 'Tables', and 'Instances'. A callout box with a yellow border lists the quick access buttons: 'Monitoring', 'Mapping tasks', 'Job management', 'Settings', and 'Finish project'. Below the callout, it says 'See more details in application help.' The bottom of the screen shows a summary for 'Product consumption' with various status indicators and an 'Upload File' button.

Buttons for quick access:

- **Monitoring** – to view a log of all activities
- **Mapping tasks** – all mapping tasks for your project
- **Job management** – adjust number of background jobs
- **Settings** – general settings for example add new migration objects
- **Finish project**

See more details in application help.

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



Trigger actions through drop down list

The migration cockpit guides you through the various steps of the data migration. You can also flexibly choose which steps you want to do next (select, mapping tasks, simulate, migrate).

The screenshot displays the SAP S/4HANA Migration Cockpit interface. At the top, there is a navigation bar with the SAP logo and 'Migration Project' dropdown. Below this, the page title is 'New Migration Project' with a 'Running Activiti...' indicator showing 0. The migration approach is 'Migrate Data Using Staging Tables' and the Mass Transfer ID is 'OLU'. The database connection is 'Local'. The main area shows a table of migration objects with columns for Migration Object, Data, Mapping Tasks, Simulation, Migration, Migration Progress, and Action. The objects listed are 'Product', 'Product - extend existing record by new org levels', and 'Product consumption'. The 'Product' object is selected, and its 'Action' dropdown menu is open, showing options like 'Upload File', 'Prepare', 'Mapping Tasks', 'Simulate', 'Migrate', and 'Create Correction File'. A text box highlights the 'Upload File' option, stating: 'The system proposes the next action to be performed. For example "Upload File" - here, you start the action for one object only.'

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input type="checkbox"/> Migration Object	Tables: 16	Open: 3	Errors: 0	Errors: 0		
<input type="checkbox"/> Product	Instances: 0	Done: 0	Successful: 0	Successful: 0	Migration Not Started	Upload File
<input type="checkbox"/> Product - extend existing record by new org levels 1 Predecessor Objects	Tables: 16 Instances: 0			Not Started: 0		
<input type="checkbox"/> Product consumption 1 Predecessor Objects	Tables: 3 Instances: 0	Open: 0 Done: 0	Errors: 0	Errors: 0 Successful: 0	Migration Not Started	Upload File



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Download XML templates for multiple migration objects

The migration cockpit provides XML template files for all delivered migration objects.

The screenshot shows the SAP Migration Cockpit interface. At the top, there is a navigation bar with 'Monitoring' highlighted. Below it, a table lists migration objects with columns for Migration Object, Data, Mapping Tasks, Simulation, Migration, Migration Progress, and Action. The 'Bank', 'CO - Activity type', and 'CO - Cost center' objects are selected. A 'Download Template' button is visible in the top right of the table area. A 'Messages' toast is visible at the bottom left.

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input checked="" type="checkbox"/> Bank	Tables: 1 Instances: 0	Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
<input checked="" type="checkbox"/> CO - Activity type	Tables: 1 Instances: 0	Open: 1 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
<input checked="" type="checkbox"/> CO - Cost center	Tables: 1 Instances: 0	Open: 1 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
<input type="checkbox"/> Product	Tables: 15 Instances: 0	Open: 4 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
<input type="checkbox"/> 2 Predecessor Objects	Tables: 24 Instances: 0	Open: 1 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File

1 You can download the template for several migration objects by selecting them and then clicking on *Download Template*.

2 A messages toast appears – check *Monitoring* for file download

3 Creating file. Navigate to "Monitoring" screen to download file.

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Download XML templates for migration objects



The Monitoring screen shows you all activities depending on your filter criteria.

Monitoring

Demo_Project | All Jobs 8 | Used Jobs 0 | Free Jobs 8

Activity: All Actions | Status: Failed x 5 More | Object Type: All Types | Object Name: | Started by: | Finished On: |

Activities (15)

Activity	Object Type/Name	Started By/On	Active Jobs	Additional Information	Options
Download File Template Completed	Migration Project Demo_Project			Finished On: Runtime: 1 Minutes	Download File Show Messages Download File
Download File Template Completed	Migration Project Demo_Project			Finished On: Runtime: 1 Minutes	
Prepare migration object Completed	Migration Object Supplier			Finished On: Runtime: 2 Minutes	
Copy migration object to project Completed	Migration Object Supplier			Finished On: Runtime: 3 Minutes	
Prepare migration object Completed	Migration Object Product			Finished On: Runtime: 2 Minutes	
Copy migration object to project Completed	Migration Object Product			Finished On: Runtime: 3 Minutes	

On the *Monitoring* screen, choose the last activity and download the file(s).
You can save them and start preparing populating them with your legacy data.

File Explorer: Migration Object Templates(Demo_Project).zip

Name	Type	Compressed...	Passw...	Size	Ratio
EN_Bank.xml	XML Document	8 KB	No	51 KB	86%
EN_CO - Activity type.xml	XML Document	9 KB	No	57 KB	86%
EN_CO - Cost center.xml	XML Document	12 KB	No	93 KB	88%

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Populate the XML template file with data



In the XML template files, please check introduction worksheet to gain information on how to fill the template.

EN_CO - Cost center.xml - Read-Only - Excel

File Home Insert Draw Page Layout Formulas Data Review View Help Search Share Comments

R11C8

1 **Source Data for Migration Object: CO - Cost center**

2 Version SAPSCORE 123 - 08.02.2021 © Copyright SAP SE. All rights reserved.

4	S_CSXS						
5	KOSTL	DATAB	DATBI	LANGU	KTEXT	LTEXT	VERAK_USER
6	ETE;80;0;C;80;0	EDA;8;0;D;8;0	EDA;8;0;D;8;0	ETE;80;0;C;80;0	ETE;20;0;C;20;0	ETE;40;0;C;40;0	ETE;80;0;C;80;0
7	Main data						
	Cost center*	Valid from*	Valid to*	Language in which texts are saved	Cost center name*	Description*	User responsible
	Key uniquely identifying a cost center. Type: Text Length: 80	When you create an object, the beginning date to which object is valid is defined here. Type: Date	When you create an object, you use the ending date to define as of when the object is valid. Type: Date	Language in which cost center texts are saved. If the language is not filled, logon language is used as default to save the cost center text	General description of the object. The cost center name is used for online displays and evaluations that do not have enough space for the cost center description	The cost center description is used for online displays and evaluations that have sufficient space. If the master record does not contain a cost center description	In this field, you can enter the user ID of the person responsible for the cost center. This user ID is stored in the SAP user master record.

1 To get more details on how to fill the excel file, check the *Introduction* worksheet.

2 Unhide/expand rows to get information on the single fields.

Introduction Field List Master record

Display Settings 100%

SAP S/4HANA Migration Cockpit – XML Template



Important information

- Enter legacy data in generated XML file template for the selected migration object
- Default size limit for each uploaded XML or ZIP file is 100 MB
- The knowledge base article [KBA 2719524](#) contains further information about increasing file size limits for SAP S/4HANA and zipping files for SAP S/4HANA Cloud and SAP S/4HANA



Recommendations

- Read introduction and check field list before starting filling the template
- Unhide and read the tooltips (line 8)
- Copy and paste values only using the following options:
 - Paste option then Values (V) - within XML file
 - Paste special and then choose Text - from somewhere else
 - Paste option then keep text only - from notepad/text editor

Migration file template for Bank

Sheet Name	Group Name	Field Description	Importance	Type	Length
Bank Master (mandatory)					
	Key	Bank country key	mandatory for sheet	Text	80
		Bank key	mandatory for sheet	Text	80
	Address	Name of bank	mandatory for sheet	Text	60
		Region (State, Province, Country)		Text	80
		House number and street		Text	35
		City		Text	35
		Bank branch		Text	40

Source Data for Migration Object: Bank				
Version S4CORE 104 - 16.08.2019 © Copyright SAP SE. All rights reserved.				
S_BNKA				
BANKS	BANKL	BANKA	PROVZ	STRAS
Key		Address		
Bank country key*	Bank key*	Name of bank*	Region (State, Province, Country)	House number and street
Identifies the country in which the bank is located. The country key defines the rules according to which bank data, such as the bank and account number, is to be validated. Type: Text Length: 80	In this field, you specify the bank key under which bank data from the respective country is stored. The length of bank key is decided on bank country. For example, if bank country is DE, length of bank key must have length 8; if bank country is IT, length of bank key must have length 10.	Type: Text Length: 60	In some countries, the region forms part of the address. The meaning depends on the country. Type: Text Length: 80	Street and house number as part of the address. Type: Text Length: 35



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Migration objects listed in Migration Project overview screen

The migration cockpit provides details in the overview screen.

The screenshot displays the SAP Migration Project overview screen. The top navigation bar includes the SAP logo, project name 'Demo_Project', and tabs for 'Running Activities' (0) and 'Activities with Error' (21). The main content area shows a table of migration objects with columns for Migration Object, Data, Mapping Tasks, Simulation, Migration, Migration Progress, and Action. The 'Bank' object is highlighted with a red bar on the left and a green progress bar at 96.6%. Other objects include 'CO - Activity type', 'CO - Cost center', 'CO - Profit center', 'Product', and 'Supplier'.

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input type="checkbox"/> Bank	Tables: 1	Open: 0	Errors: 0	Errors: 7	96.6%	Create Correction File
<input type="checkbox"/> Migration completed with errors	Instances: 206	Done: 3	Successful: 0	Successful: 199		
<input type="checkbox"/> CO - Activity type	Tables: 1	Open: 0	Errors: 0	Errors: 0		Upload File
<input type="checkbox"/> Migration completed	Instances: 10	Done: 7	Successful: 0	Successful: 10		
<input type="checkbox"/> CO - Cost center	Tables: 1	Open: 0	Errors: 0	Errors: 0		
<input type="checkbox"/> Migration completed with errors	Instances: 6	Done: 10	Successful: 0	Successful: 0		
<input type="checkbox"/> CO - Profit center	Tables: 2	Open: 0	Errors: 0	Errors: 0		
<input type="checkbox"/> Simulation completed	Instances: 5	Done: 6	Successful: 5	Successful: 0	Migration Not Started	Migrate
<input type="checkbox"/> Product	Tables: 15	Open: 0	Errors: 0	Errors: 0		
<input type="checkbox"/> 2 Predecessor Objects	Instances: 0	Done: 10	Successful: 0	Successful: 0	Migration Not Started	Upload File
<input type="checkbox"/> Supplier	Tables: 24	Open: 1	Errors: 0	Errors: 0		

In the *Migration Project* overview screen, the progress bar indicates the status of your single migration object.
You can drill down into numbers to get details on tables/tasks/instance level.

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



Mapping tasks - specify mapping values

On the **Mapping Tasks** screen, you can view all the mapping tasks, you can maintain the value mapping and you can confirm them.

The screenshot displays the SAP S/4HANA Migration Cockpit interface. The main view is titled "Mapping of Country/Region Key" and shows a list of mapping tasks on the left and a detailed view of the selected task on the right. The task status is "Confirmed" and it is a "Value Mapping" used in "Migration Objects".

Callout 1: "You can specify value mappings and transform values from the source system to the target system." This callout points to the "Values" section of the mapping task, which lists source values and their corresponding S/4HANA target values.

Callout 2: "Search help for target values provides existing values in the SAP S/4HANA Cloud target system." This callout points to the search help dropdown menu in the "Values" table, which is currently open, showing a list of country/region keys.

Source Value	S/4HANA Target Value	Status
<input type="checkbox"/> Spain	ES	Confirmed
<input type="checkbox"/> Germany	DE	Confirmed
<input type="checkbox"/> ES	ES	
<input type="checkbox"/> Deutschland	DE	
<input type="checkbox"/> DE	DE	
<input type="checkbox"/> Amerika	US	

Country/Region Key	Name (Short)
AD	Andorra
AE	Utd.Arab Emir.
AF	Afghanistan
AG	Antigua/Barbuda
AI	Anguilla

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



Download mapping XML templates

On the **Mapping Tasks** screen, you can download empty templates or download / upload mapping values.

Download mapping template files are available for each mapping task.

Select mapping task – click “Download Mapping Template”.

You can use this template files instead of specifying the values manually. If files are filled, you can upload the values by clicking on “Upload Values”.

Select Mapping Tasks

Selected: 5

- Fixed value for Controlling Area
- Mapping of ABC Indicator
- Mapping of ANP Code
- Mapping of Account Assignment Group
- Mapping of Assignment Schema
- Mapping of Availability Check
- Mapping of Batch Entry
- Mapping of Billing Cycle

Name	Date modified	Type	Size
Fixed value for Controlling Area.xml	8/27/2020 3:37 PM	XML Document	14 KB
Mapping of ABC Indicator.xml	8/27/2020 3:37 PM	XML Document	13 KB
Mapping of Account Assignment Group.xml	8/27/2020 3:37 PM	XML Document	13 KB
Mapping of ANP Code.xml	8/27/2020 3:37 PM	XML Document	13 KB
Mapping of Assignment Schema.xml	8/27/2020 3:37 PM	XML Document	13 KB



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Populate XML mapping template file with data

Enter your mappings in the downloaded template.

Parameter Name	Type	Typing	Associated Type	Data Type	Length	Decimals
IV_MAABC	Import Parameter			CHAR	80	
EV_MAABC	Export Parameter			CHAR	1	

SAP S/4HANA Migration Cockpit - Mapping Tasks

Handling of insert/delete mapping value



Background & Tip

The screenshot shows two overlapping SAP S/4HANA Migration Cockpit screens. The top screen is 'Mapping Tasks' with a 'Monitoring' tab. It shows 3 Mapping Tasks, 2 'To be Confirmed', and 1 'Confirmed'. A warning message states: 'The displayed data is from 1/25/2021 at 6:19:47 PM and may be out of date. Refresh display'. The bottom screen is 'Upload Mapping Values' with a 'Monitoring' tab. It shows 1 Mapping Task, 'Mapping of Bank Key', with 0 'Running Activities' and 9 'Activities with Error'. The 'Additional Settings' section contains a message: 'Here, you specify options for uploading the mapping values to your project. To start the upload process for a mapping task, choose the "Upload Values" button. You can view the status of the upload in the monitoring screen. If a mapping task was not uploaded successfully, it will be visible here again.' Below this, a table shows 'Mapping Tasks(1)' with columns for 'Options for Confirming Values', 'Options for Loading Values', and 'Number of Files'. The 'Options for Confirming Values' dropdown is open, showing 'None', 'Confirm Values Automatically', and 'Do Not Confirm Values Automatically'. The 'Options for Loading Values' dropdown is also open, showing 'None', 'Replace Existing Values', and 'Modify Values / Add Values'. The 'Number of Files' column shows '1'. The 'Upload Values' button is highlighted with a yellow box.

- In very early releases, it was possible to add/delete by using buttons like "Insert Row"

The screenshot shows the 'Setting Details' for 'Mapping of Company Code' (ID: MAP_BUKRS). It features a table with columns for 'Status', 'Source Value', and 'S/4HANA Target Value'. The table contains two rows: one with '1010' and one with '1710'. Above the table, there are buttons for 'Append Row', 'Insert Row', and 'Delete Row', which are highlighted with red boxes.

- In Fiori App this is not possible right now.

Procedure:

1. Download values
2. Edit in XML file
3. Upload again - Check additional settings

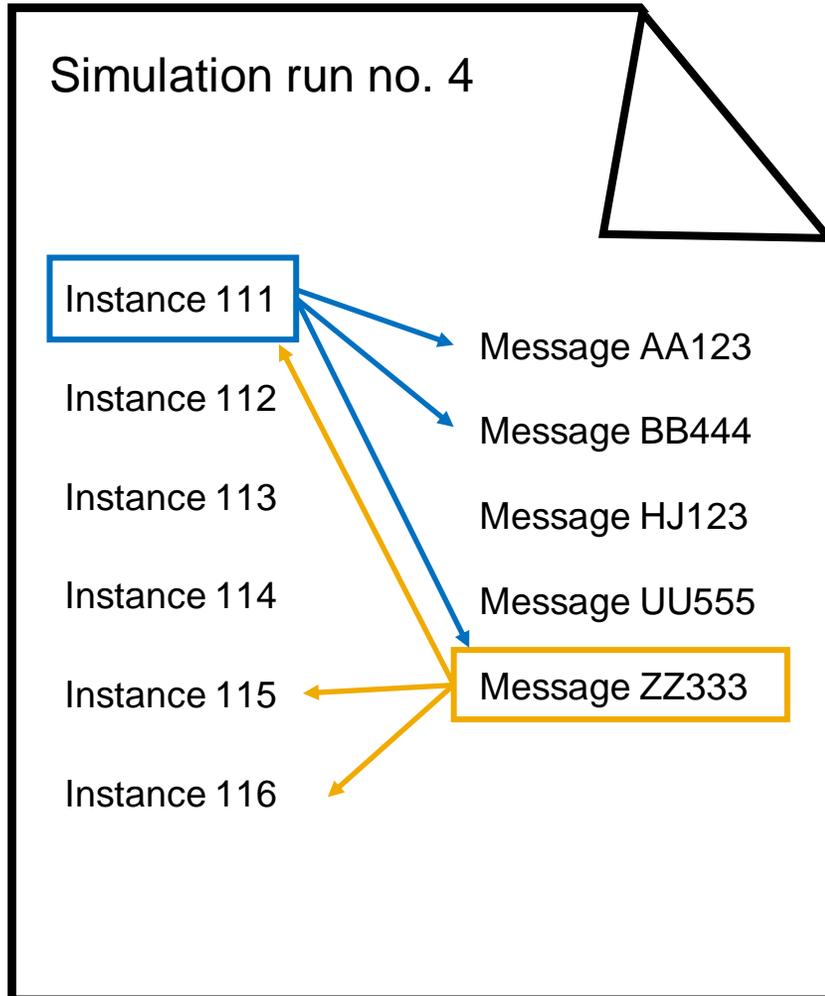


Details in [KBA 3003068](#)

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



Different message analysis capabilities



View: which messages occurred for one instance?

View: which instances are concerned by a message?

View: which messages occurred for an activity?



Simulation run no. 1

Simulation run no. 2

Simulation run no. 3



SAP S/4HANA Migration Cockpit – Error Handling

Different ways to check error messages - overview

1. On migration object instance level
 - find errors for the selected instance(s)
 - on latest action (latest simulation run, latest migration run)
 - no history
2. On migration object level – history tab
 - find all messages for the selected migration object and action
 - different views: default (no grouping) vs. group by message ID
 - drill down to every single error message
3. On migration object level – all messages - project view
 - find all messages for the selected migration object(s)
 - select from recent actions (different simulation/migration runs)
 - drill down to every single error message and instance



Background & Tip

- Different possibilities to analyze (error) messages

SAP S/4HANA Migration Cockpit – Error Handling

1. Messages on migration object instance level



Migration Project Overview

CE2102_Demo_Project | Running Activities: 0 | Activities with Error: 10

Migration Approach: Migrate Data Using Staging Tables | Mass Transfer ID: M10 | Database Connection: Local

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
Bank	Tables: 1 Instances: 199	Open: 2 Done: 1	Errors: 0 Successful: 0	Errors: 181 Successful: 18	90.95%	Mapping Tasks
CO - Activity type	Tables: 1 Instances: 10					
Migration completed	Instances: 10					

Click on number to get all a list of all erroneous instances



Tip

- Free text search
- Group, sort
- Download to MS Excel

Migration Object Instances

Bank (181)

Search filters: Bank Country/Region Key, Bank Key, Name of Bank, Region, House Number and Street

The displayed data is from 1/25/2021 at 10:51:11 AM and may be out of date. Refresh display

Bank Country/Region Key	Bank Key	Name of Bank	Region	House Number and Street	Action	Status
DE	90090001	Bank 90090001		2101200625	Migrated	Error
DE	90090002	Bank 90090002			Migrated	Error
DE	90090003	Bank 90090003			Migrated	Error

Select multiple instances – press Messages button

Click on Error to get the message for the corresponding instance

Migration Object Instance, Messages

Bank (2)

Messages

Migration Object: Bank
Actions: Migrated
Bank Country/Region Key: DE; Bank Key: 90090001; Name of Bank: Bank 90090001; Region (State, Province, Country): ; House Number and Street: ;

3 All | Error 2 | Warning 0 | Success 0 | Information 1

Type	Message	Message Class	Message Number	Date and Time
Information	Messages for Source Record: DE/ 90090001	DMC_RT_MSG	188	20.01.2021, 08:20
Error	Mapping of Bank Key not yet confirmed, maintain value conversion in migration cockpit	CNV_DMC_SIN	331	20.01.2021, 08:20
Error	Mapping value missing for mapping Mapping of Bank Key (source value DE 90090001)	DMC_RT_MSG	091	20.01.2021, 08:20

All messages referring to this single instance



SAP S/4HANA Migration Cockpit – Error Handling

2. Messages on migration object level – history tab (1/2)

Migration Project

CE2102_Demo_Project | Running Activities: 0 | Activities with Error: 10

Migration Approach: Migrate Data Using Staging Tables | Mass Transfer ID: M10 | Database Connection

Show [dropdown] Search [input]

Migration Object	Data	Mapping Tasks	Simulation	Migration
<input type="checkbox"/> Bank				Errors: 181 Successful: 18 Not Started: 0
<input type="checkbox"/> CO - Activity type	Tables: 1	Open: 0	Errors: 0	Errors: 0
<input type="checkbox"/> Migration completed	Instances: 10	Done: 7	Successful: 0	Successful: 10 Not Started: 0

Click on migration object name to get details

Migration Object

Bank | CE2102_Demo_Project

Mapping Tasks | Instances | Check for Updates | Update | Check for Custom Fields

Documentation | Views | Table Structure | **History** | Dependencies | Technical Information

History (11)

Action	Started By	Started On	Finished On	Messages
Migration completed with errors		20.01.2021, 08:19:41	20.01.2021, 08:20:37	Show Messages
Simulation completed with errors		20.01.2021, 07:56:46	20.01.2021, 07:57:43	Show Messages
Preparation completed			01.2021, 07:30:34	Show Messages
Transfer of data to staging table failed			01.2021, 07:25:06	Show Messages
Transfer of data to staging table completed			01.2021, 07:25:06	Show Messages
Transfer of data to staging table completed			01.2021, 07:25:05	Show Messages
File validation completed			01.2021, 07:25:06	Show Messages
File validation completed		20.01.2021, 07:24:56	20.01.2021, 07:25:04	Show Messages
File validation completed		20.01.2021, 07:24:56	20.01.2021, 07:25:04	Show Messages
Prepare object completed		20.01.2021, 07:22:55	20.01.2021, 07:23:06	Show Messages

Select History tab to view messages for the selected migration object and action.
Select Show Messages.

SAP S/4HANA Migration Cockpit – Error Handling

2. Messages on migration object level – history tab (2/2)



Migration Project: CE2102_Demo_Project
 Migration Object: Bank
 Event: Migration completed with errors
 Started By: [redacted]
 Started On: 20.01.2021, 08:19:41
 Finished On: 20.01.2021, 08:20:37

563 All | Error 362 | Warning 0 | Success 16 | Information 185

Type	Message Title	Message Class	Message Number	Date and Time
i	Start of processing Z_BANK_2_M10 (access plan 00001)	DMC_RT_MSG	43	20.01.2021, 08:20:14
✓	Run 000000001 started at 20210120 072014	DMC_RT_MSG	35	20.01.2021, 08:20:14
✓	Structure S_BNKA: Number of imported sender records 000000001			
✗	Mapping value missing for mapping Mapping of Bank Key (source)			
i	Messages for Source Record: DE/ 7008000122			
✗	Mapping of Bank Key not yet confirmed, maintain value conversion			
✗	Mapping value missing for mapping Mapping of Bank Key (source)			
i	Messages for Source Record: DE/ 700800004			
✗	Mapping of Bank Key not yet confirmed, maintain value conversion			
✗	Mapping value missing for mapping Mapping of Bank Key (source)			
i	Messages for Source Record: DE/ 700800005			



Tip

- Free text search
- Group, sort
- Download to MS Excel

Migration Project: CE2102_Demo_Project
 Migration Object: Bank
 Event: Migration completed with errors
 Started By: [redacted]
 Started On: 20.01.2021, 08:19:41
 Finished On: 20.01.2021, 08:20:37

10 All | Error 2 | Warning 0 | Success 5 | Information 3

Type	Message Title	Message Class	Message Number	Message Count	Last Occurred
✗	Mapping value missing for mapping [...] (source value [...] [...] [...])	DMC_RT_MSG	91	181	20.01.2021, 08:20:24
i	Messages for Source Record: [...] [...] [...] [...]	DMC_RT_MSG	188	181	20.01.2021, 08:20:24
✗	[...] not yet confirmed, maintain value conversion in migration cockpit	CNV_DMC_SIN	331	181	20.01.2021, 08:20:24
✓	Subsequent messages pertain to job /1LT/MC_M10_BANK_2_LOAD_001, job count 07200900.	DMC_GENERAL	186	1	20.01.2021, 08:20:33
i	Start of processing [...] (access plan [...])	DMC_RT_MSG	43	2	20.01.2021, 08:20:33
✓	Run [...] started at [...] [...]	DMC_RT_MSG	35	2	20.01.2021, 08:20:33
✓	Structure [...]: Number of imported sender records [...]	DMC_RT_MSG	7	2	20.01.2021, 08:20:33
✓	Structure [...]: Number of recipient records generated [...]	DMC_RT_MSG	8	10	20.01.2021, 08:20:33
✓	Run 000000001 finished on 20210120 at 072033	DMC_RT_MSG	36	1	20.01.2021, 08:20:33
i	End of processing [...]	DMC_RT_MSG	44	2	20.01.2021, 08:20:33

SAP S/4HANA Migration Cockpit – Error Handling

3. Messages on migration project level



Tip

- Use filters and messages types
- Group, sort
- Download to MS Excel

Select relevant migration objects – press *Messages* button

Toggle between migration objects

Find numbers of instances with this message
Forward navigation to see all instances directly

Forward navigation to see all instances directly

Forward navigation to instance list for further processing

Mapping value missing for mapping [...] (source value [...] [...] [...])

Date and Time	Message Text	Key Fields for Migration Object Instance
20.01.2021, 07:57:33	Mapping value missing for mapping Mapping of Country/Region Key ... more	ES 70080002
20.01.2021, 07:57:32	Mapping value missing for mapping Mapping of Country/Region Key ... more	Deutschland 70080003
20.01.2021, 07:57:31	Mapping value missing for mapping Mapping of Bank Key (source value ... more	DE 90090045



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Instance-based deletion through mass processing

MH_2021_0125 Running Activities 0

Migration Approach: Migrate Data Using Staging Tables

Show All

Migration Object

Bank

Preparation completed

Tables: 1

Instances: 3

Click on number of instances to get to detail level of migration object instances

Bank (3)
MH_2021_0125

Refresh display

Show All

<input type="checkbox"/>	Bank country key	Bank key	Name of bank	Region (State, Province, Country)
<input type="checkbox"/>	Germany	89764343	MH BANK 01	NRW

Status: Initial

Press button *Mass Processing*

1 Action

Choose an action

Delete Instances

Step 2

To start mass processing deletion of instances - press button *Step2*

2. Selection

No filters are used. Performing the action may take some time.

Bank country key: [input] Region (State, Province, Country): [input] Bank branch: [input]

Bank key: [input] House number and street: [input] SWIFT code for international payments: [input]

Name of bank: [input] City: [input] Action/Status: [input]

Step 3

Use filter options to select relevant instances

3. Data Preview

The action "Delete Instances" is performed for the following 3 instances. If you have selected any migration object instances that have already been migrated, they won't be deleted.

Bank country key	Bank key	Name of bank	Region (State, Province, Country)	House number and street	Additional Fields	Source	Action	Status
Germany	89764343	MH BANK 01	NRW	Weg des Geldes 1	Display All	MH_OPEN_Bank_vmi(2 0210125164210)	None	Initial
Germany	98437329	MH BANK 02	BW	Weg des Geldes 2	Display All	MH_OPEN_Bank_vmi(2 0210125164210)	None	Initial
Germany	45476734	MH BANK 03	Hessen	Weg des Geldes 3	Display All	MH_OPEN_Bank_vmi(2 0210125164210)	None	Initial

Review

Review chosen instances before deletion

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Job management - improving performance



On the **Migration Project** screen, use the button Job Management to adjust job settings.

Migration Project

New Migration Project | Running Activiti... 0

Monitoring | Mapping Tasks | **Job Management** | Settings | Finish Project

Migration Approach: Migrate Data Using Staging Tables | Mass Transfer ID: OLU | Database Connection: Local

Show All

Migration Object	Data	Tables	Instances
<input type="checkbox"/> Migration Object		16	0
<input type="checkbox"/> Product		16	0
<input checked="" type="checkbox"/> Product - extend existing record by new org levels		16	0
<input checked="" type="checkbox"/> 1 Predecessor Objects			

Adjust the maximum number of background jobs used for your project.

You can also adjust the maximum number of jobs to be used per migration object.

Job Management

New Migration Project

Migration Approach: Migrate Data Using Staging Tables
Mass Transfer ID: OLU
Default View: Standard Scope
Database Connection: Local

Maximum Number of Jobs for Project | Jobs Used for Migration Objects

You can adjust the number of jobs that are used for your project. The default number of jobs for a project is 15.

Maximum Number of Jobs for Project: 15

Jobs Used for Migration Objects

It is not possible to adjust the number of background jobs for migration objects that have the status Not Ready for Processing

Name	Maximum Number Used
Product	1
Product - extend existing record by new org levels	1



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Finish project - data retention time

When you set the status of a project to “Finished” you can specify a data retention period.

Finish Project

i When you set the status of a project to 'Finished', no further changes are possible. You can only view the project. In addition, you can specify a data retention period. The retention period is the length of time (in days) that the project and all associated data is kept in the system after you have set the status of the project to 'Finished'.

Data Retention Period

ON

Start Date / Data Retention Period (in Days) / End Date

01.10.2020 - 365 + 01.10.2021

Finish Project Cancel

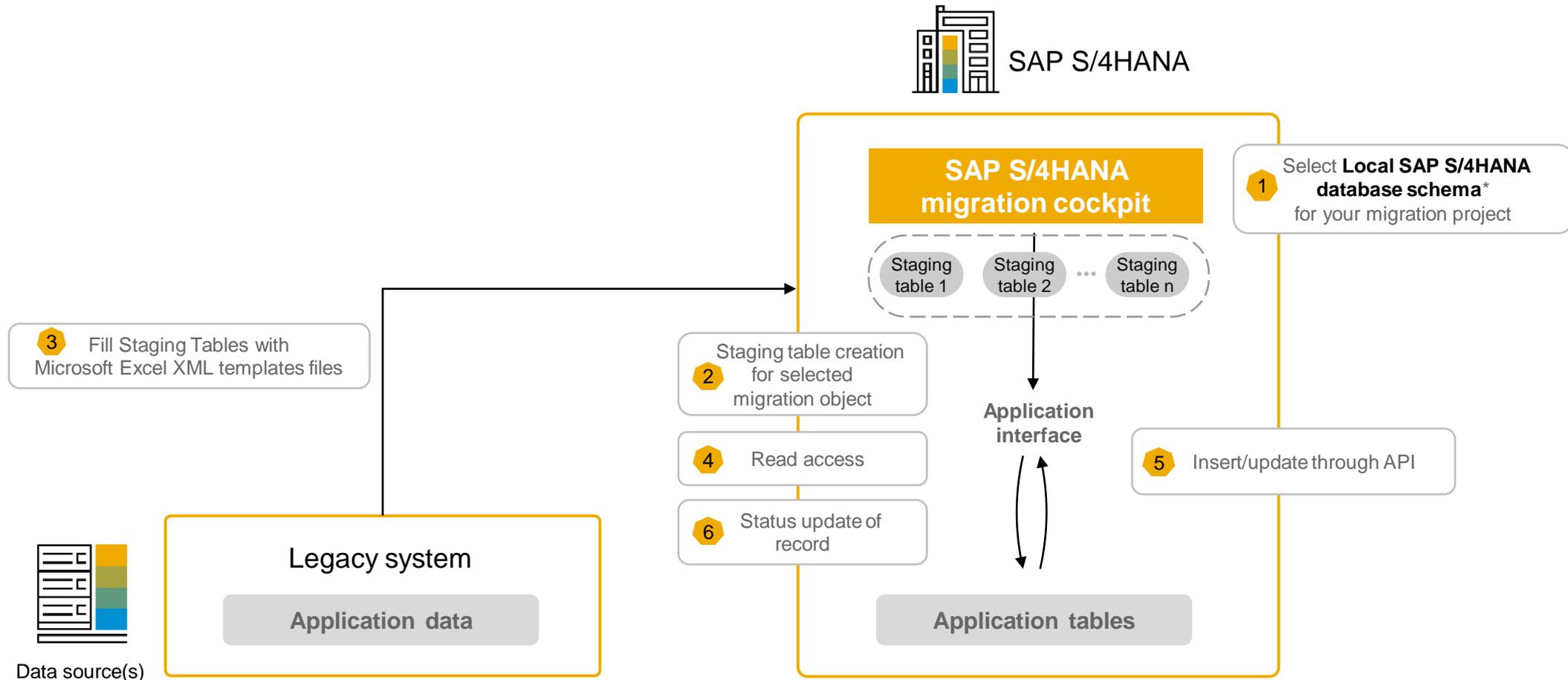
The project and all associated data will be deleted from the SAP S/4HANA system when the data retention time expires.



For projects created with transaction LTMC (file approach), only the temporary created data will be deleted once the data retention time expires. This includes data from any uploaded files that is cached in the SAP system, as well as other data used for the transfer.

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

System setup SAP S/4HANA local SAP S/4HANA database schema

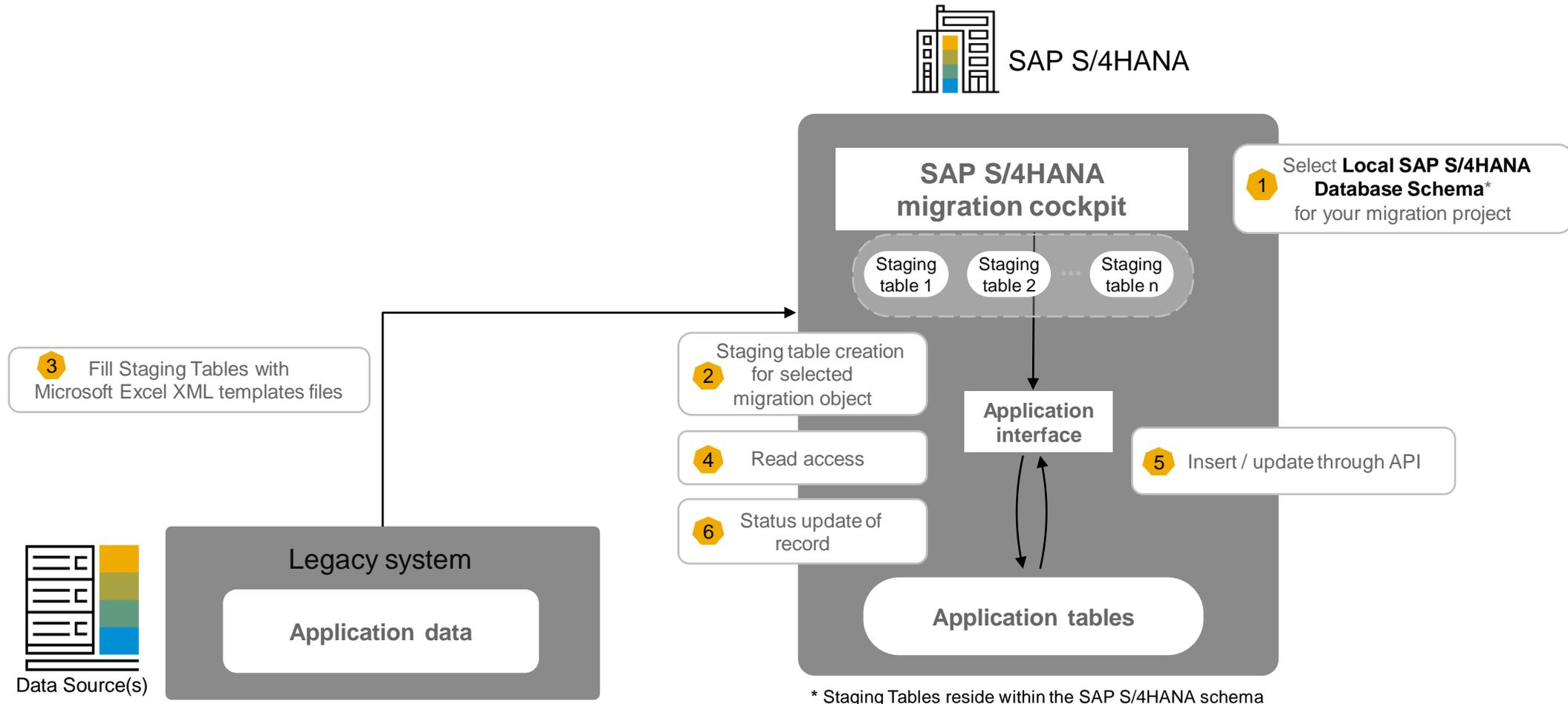


* Staging Tables reside within the SAP S/4HANA schema



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

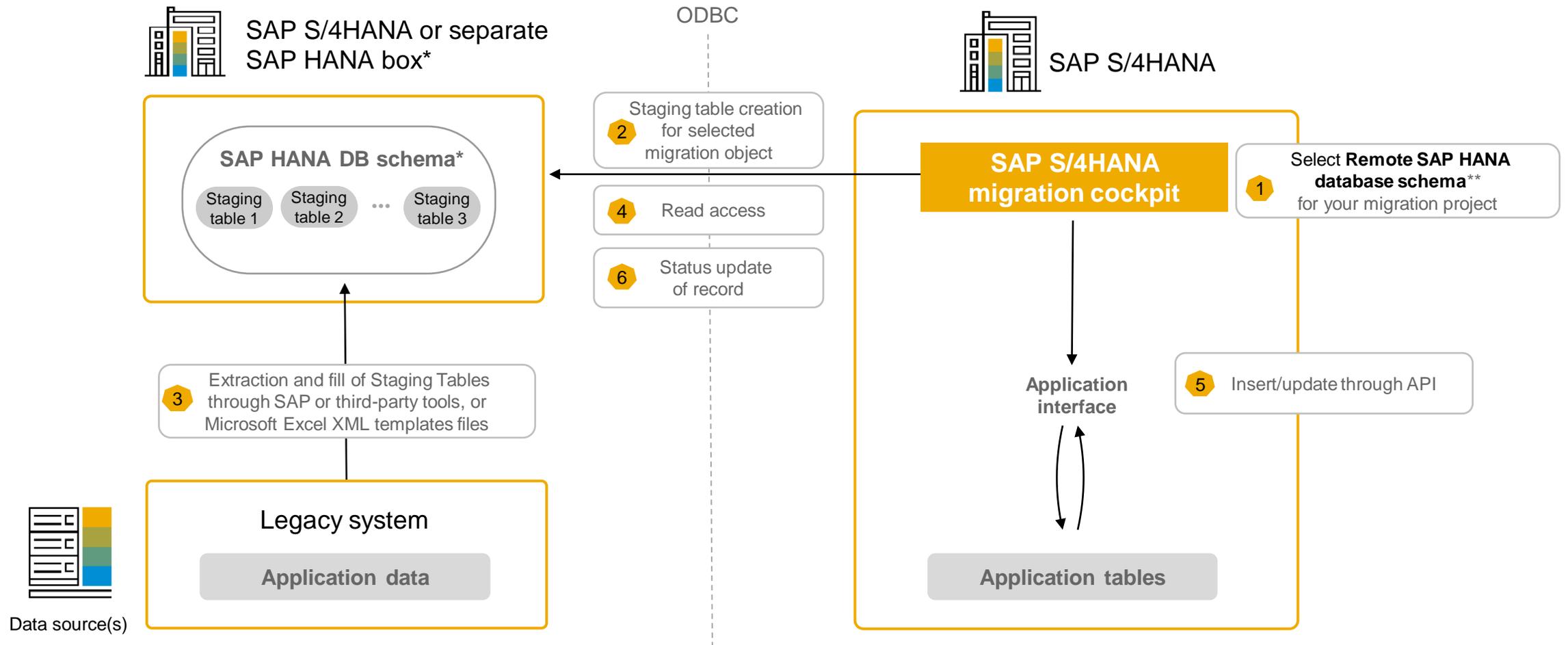
System setup SAP S/4HANA local SAP S/4HANA database schema



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables



System setup SAP S/4HANA remote SAP HANA database schema

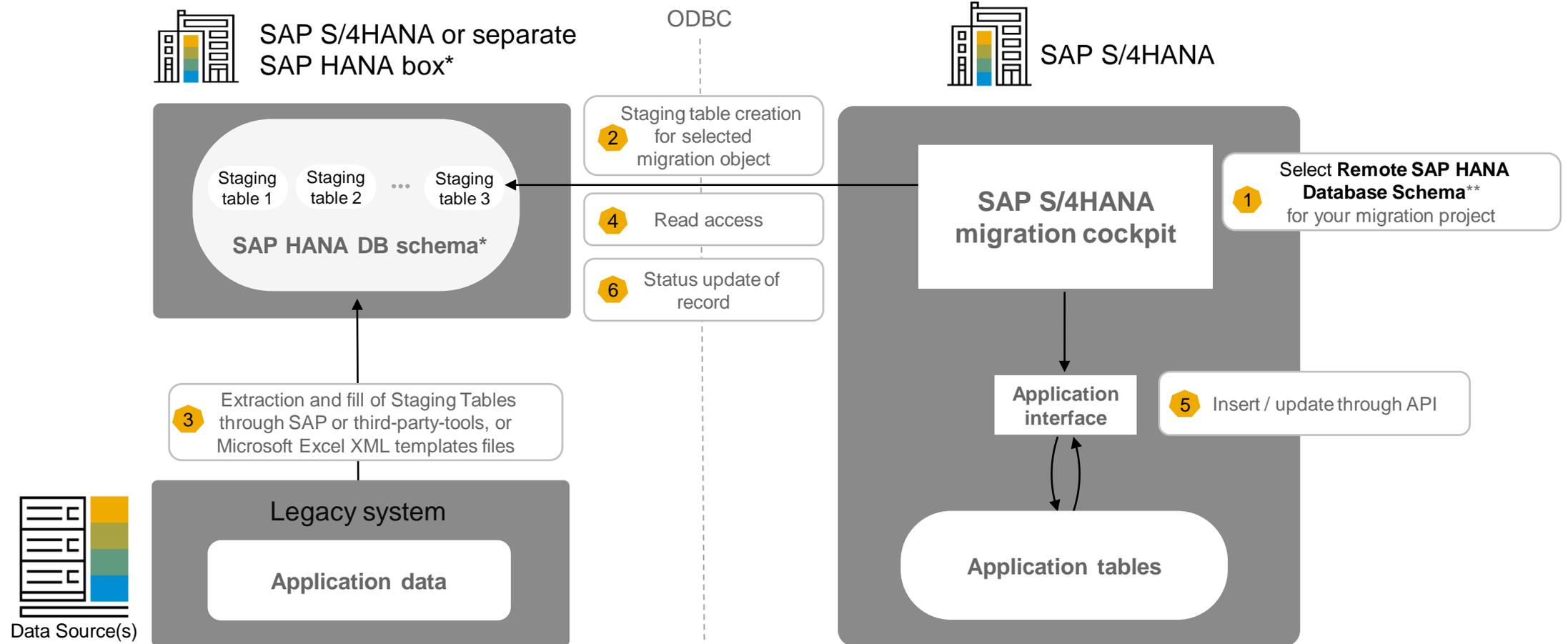


* Separate SAP HANA database schema is required, can also be on SAP S/4HANA target system

** Prerequisite: established secondary database connection

SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

System setup SAP S/4HANA remote SAP HANA database schema

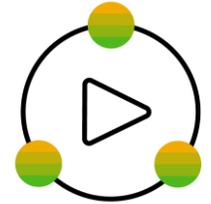


* Separate SAP HANA database schema is required, can also be on SAP S/4HANA target system
 ** Prerequisite: established secondary database connection



Video

Migrate Data Using Staging Tables



SAP S/4HANA Migration Cockpit (File/Staging)

What's new in SAP S/4HANA 2020?



- One harmonized user experience using SAP Fiori UI for all approaches
- Possible to process multiple objects at once
- Instance-based status tracking and messages
- Progress tracking during simulation/migration (monitoring)
- Mapping upload/download in SAP Fiori app – templates or with populated values
- Projects created using old app transaction LTMC (Web Dynpro) cannot be converted to new SAP Fiori app but will be available as read-only from SAP S/4HANA 2021 onwards.



SAP S/4HANA Migration Cockpit (File/Staging)

What's new in SAP S/4HANA 2020 FPS01



- Additional view on messages
- Instance-based deletion from mass processing
- Screen refresh function
- Activity monitoring



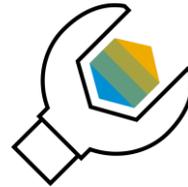


SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

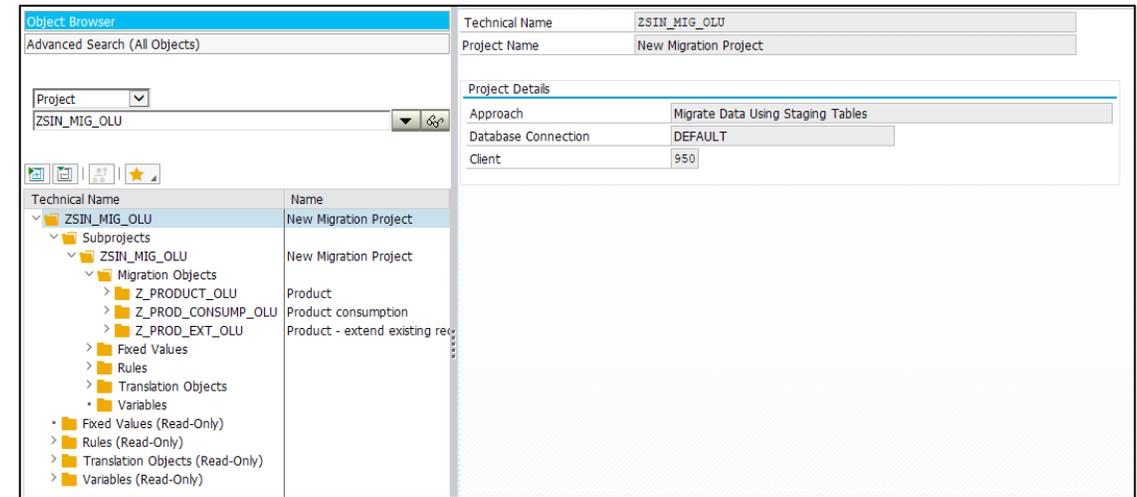
SAP S/4HANA Migration object modeler – what's new



Flexible and extendable



- Copy migration objects
- Adjust standard migration objects (for example add fields)
- Simulate / debug import of data from staging tables
- Create user defined migration objects
- Use standard APIs or code your function module
- Create or edit translation objects and rules
- **New***: Export / import a project from one system to another system
- **New***: Use project in a different client
- **New***: Reset transfer status



**Transaction:
LTMOM**

*This does not apply for projects created with LTMC.

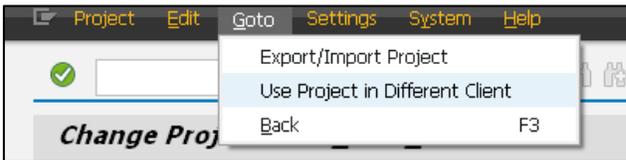


SAP S/4HANA Migration Object Modeler (File/Staging)

What's new with 2020

For projects created with **new Fiori App** the following applies:

1. **Client Dependency:** Projects can only be seen and changed in the client where the project was created.
2. **Using a project in a different client:** It is possible to use a project in a different client, the project is not copied, but only available in the new client; all mapping tasks are deleted.



3. **Non modifiable systems / productive systems:** It is not possible to modify projects in non-modifiable / productive systems. If you need to make adjustments (for example delete a migration object), you can adjust the project in the development system and export/import it again to the productive system.



This does not apply for projects created with LTMC.



SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Export / import projects

Before SAP S/4HANA 2020: You export / import projects using transaction LTMC.

As of SAP S/4HANA 2020 and for projects created with the Fiori App: You export / import projects using transaction LTMOM (migration object modeler).

SAP S/4HANA 2020 – migration object modeler

The screenshot displays the SAP S/4HANA Migration Object Modeler (LTMOM) interface. The main window shows the 'Object Browser' with a tree view of migration objects. The 'Project' dropdown is set to 'ZSIN_MIG_OLU'. The 'Project Details' pane shows the following information:

Technical Name	ZSIN_MIG_OLU
Project Name	New Migration Project
Approach	
Database Connection	
Client	

The 'Options' section is visible, with 'Export Project' selected:

Options

- Export Project
- Import Project

The 'Project' section shows the 'Mass Transfer ID' field with the value 'OLU' highlighted.



SAP S/4HANA Migration Object Modeler (File/Staging)

New namespace for customer structures and fields introduced with 2020 FPS01

Source Structure

- The name of a source structure must begin with “ZS_”
- This applies to source structures which are added by the user to a migration object which was copied from template

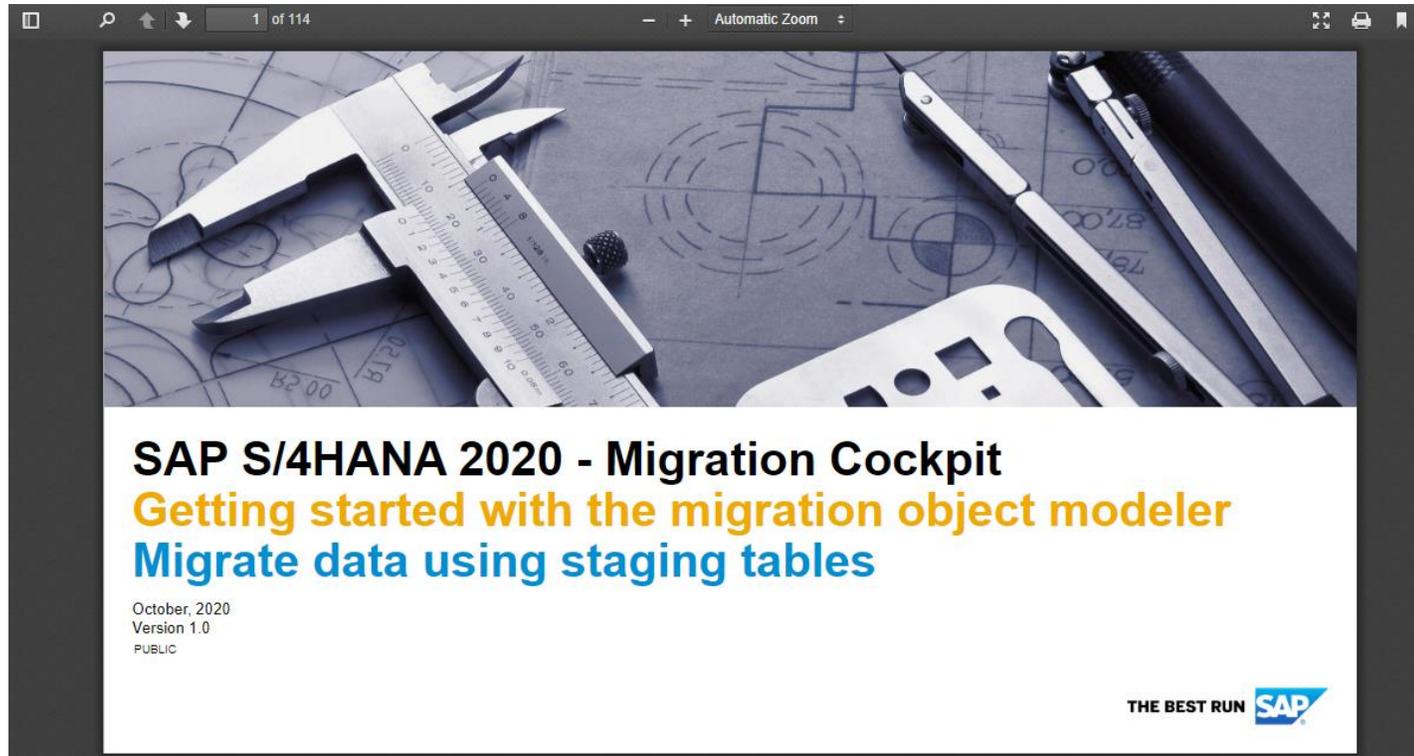
Source Structure Fields

- The name of a source structure field must begin with “ZZ”
- This applies if the source structure field is added by the user to a migration object which was copied from template



SAP S/4HANA Migration Object Modeler (File/Staging)

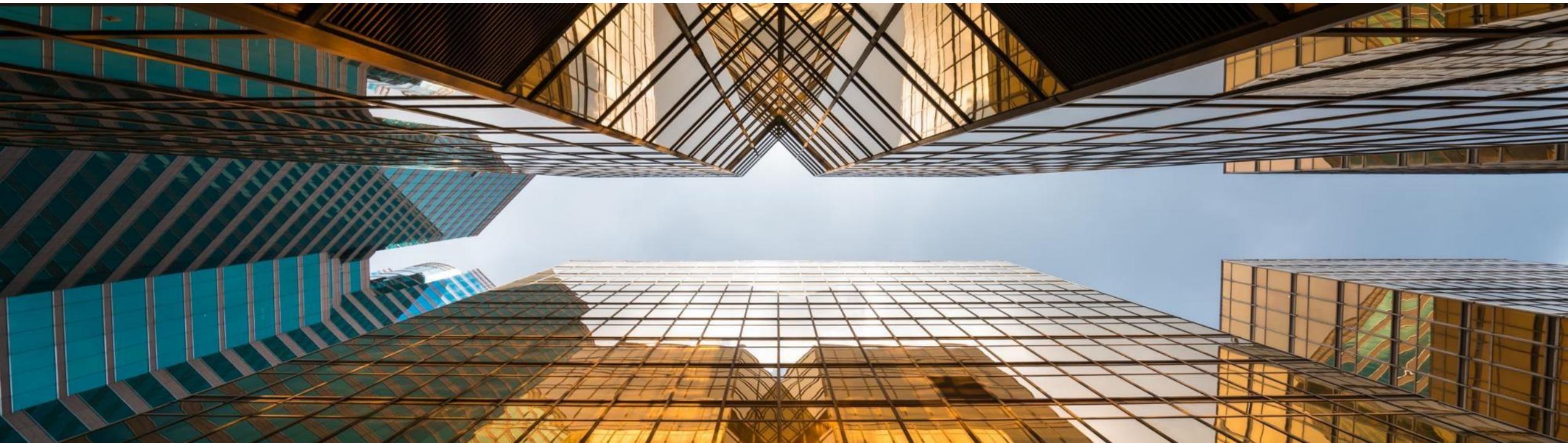
Deep dive slides



[SAP S/4HANA Migration Object Modeler \(file/staging\)](#)

SAP S/4HANA Migration Cockpit

Migrate Data Directly from SAP System

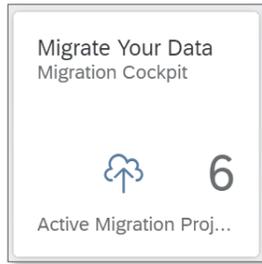


SAP S/4HANA Migration Cockpit – Direct Transfer*



* Migration approach "Migrate Data Directly from SAP System"

Fiori App Migrate your data



SAP business suite

Process & content

The screenshots show the 'New Migration Project' and 'Migration Project' interfaces. The 'Migration Project' view displays a table of migration objects with columns for Migration Object, Data, Mapping Tasks, Simulation, Migration, and Migration Progress.

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input checked="" type="checkbox"/> CO - Activity type	Instances: 0 Excluded: 0	Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Select Data
<input checked="" type="checkbox"/> CO - Cost center	Instances: 0 Excluded: 0	Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Select Data

Data load



API based



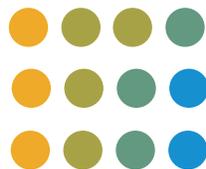
SAP S/4HANA Cloud,
private edition



SAP S/4HANA

SAP S/4HANA 2020,
FPS01:

+200 Migration objects



Available for:

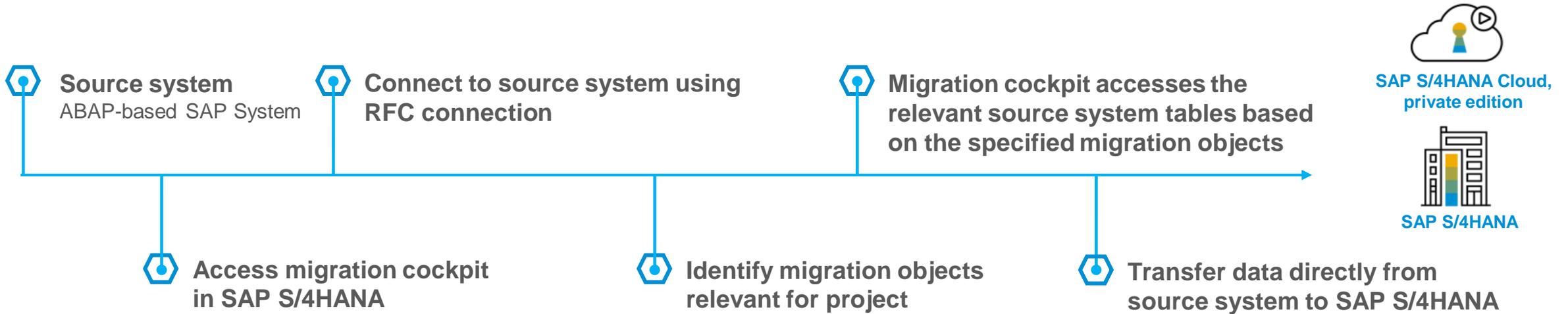
- SAP ERP 6.0 to SAP S/4HANA
- SAP Apparel and Footwear Solution (SAP AFS) 6.0 to SAP S/4HANA
- SAP Extended Warehouse Management to Decentralized EWM based on SAP S/4HANA
- SAP CRM to SAP S/4HANA for customer management
- SAP APO SPP to SAP S/4HANA eSPP**

Predefined selection criteria is depending on migration scenario.

**new in SAP S/4HANA 2020,
FPS01

SAP S/4HANA Migration Cockpit – Direct Transfer*

Migrate data directly from SAP source system



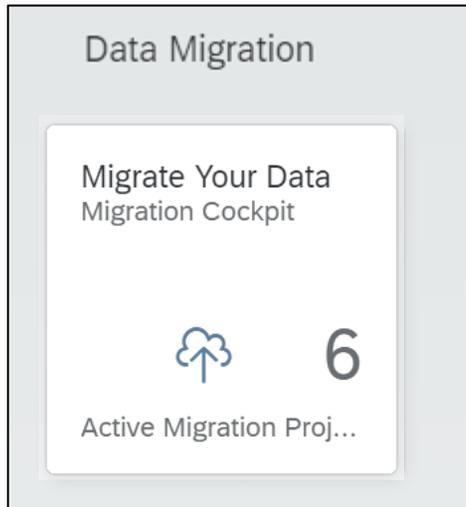
- Suitable for ABAP-based SAP source systems only
- Five migration scenarios supported
 - SAP ERP to SAP S/4HANA
 - SAP Apparel and Footwear to SAP S/4HANA
 - SAP EWM to decentralized EWM based on SAP S/4HANA
 - SAP CRM to SAP S/4HANA for customer management (SAP S/4HANA 1909 FPS01 onwards)
 - SAP APO SPP to SAP S/4HANA eSPP (SAP S/4HANA 2020 FPS01 onwards)

SAP S/4HANA Migration Cockpit – Direct Transfer

Start the App



Start the “Migrate Your Data” App



- The SAP S/4HANA migration cockpit facilitates the transfer of business data from an SAP source system to SAP S/4HANA.
- The SAP S/4HANA migration cockpit is designed for an **initial load of data**, specifically for the SAP S/4HANA new implementation scenario.
- It is **not designed to keep data in sync** between systems, to realize a continuous exchange or flow of data, or to establish an integration scenario.
- SAP S/4HANA systems are currently not supported as source systems.

SAP S/4HANA Migration Cockpit – Direct Transfer

Create new migration project - general data



SAP New Migration Project

1 General Data | 2 Data Selection | 3 Migration Objects

1. General Data

i Here, you specify general information for your project. Note that it will not be possible to change the scenario or the development package after you create the project.

Migration Approach: Migrate Data Directly from SAP System

Name: *
Demo_2020_DT

Scenario: *
SAP ERP to SAP S/4HANA

Connection to Source System: *
UA8TRUST

Development Package: *
\$TMP

Step 2

Selection of relevant scenario:

- SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA
- SAP ERP to SAP S/4HANA
- SAP CRM to SAP S/4HANA Service
- SAP EWM to Decentralized EWM based on SAP S/4HANA
- SAP APO SPP to SAP S/4HANA eSPP

Enter the relevant RFC connection to the SAP Source System.

Enter a development package, so that you can transport your project to another system.
Note: If you enter \$TMP you will not be able to add your project to a transport request, this means, the project is only locally available in the client and system, where you created the project.



SAP S/4HANA Migration Cockpit – Direct Transfer

Create new migration project - data selection

The migration cockpit delivers preconfigured data selection criteria depending on the migration scenario.

1 General Data — **2** Data Selection — **3** Migration Objects

2. Data Selection

The Migration Cockpit uses organizational units such as company codes to select data from the source system. These organizational units are predefined for each scenario. For example, the scenario SAP ERP to SAP S/4HANA uses company codes to select data from the source system.

Only data that is relevant for the specified organizational units will be selected from the source system.

Company Code: *

0001 (SAP A.G.) x

Step 3

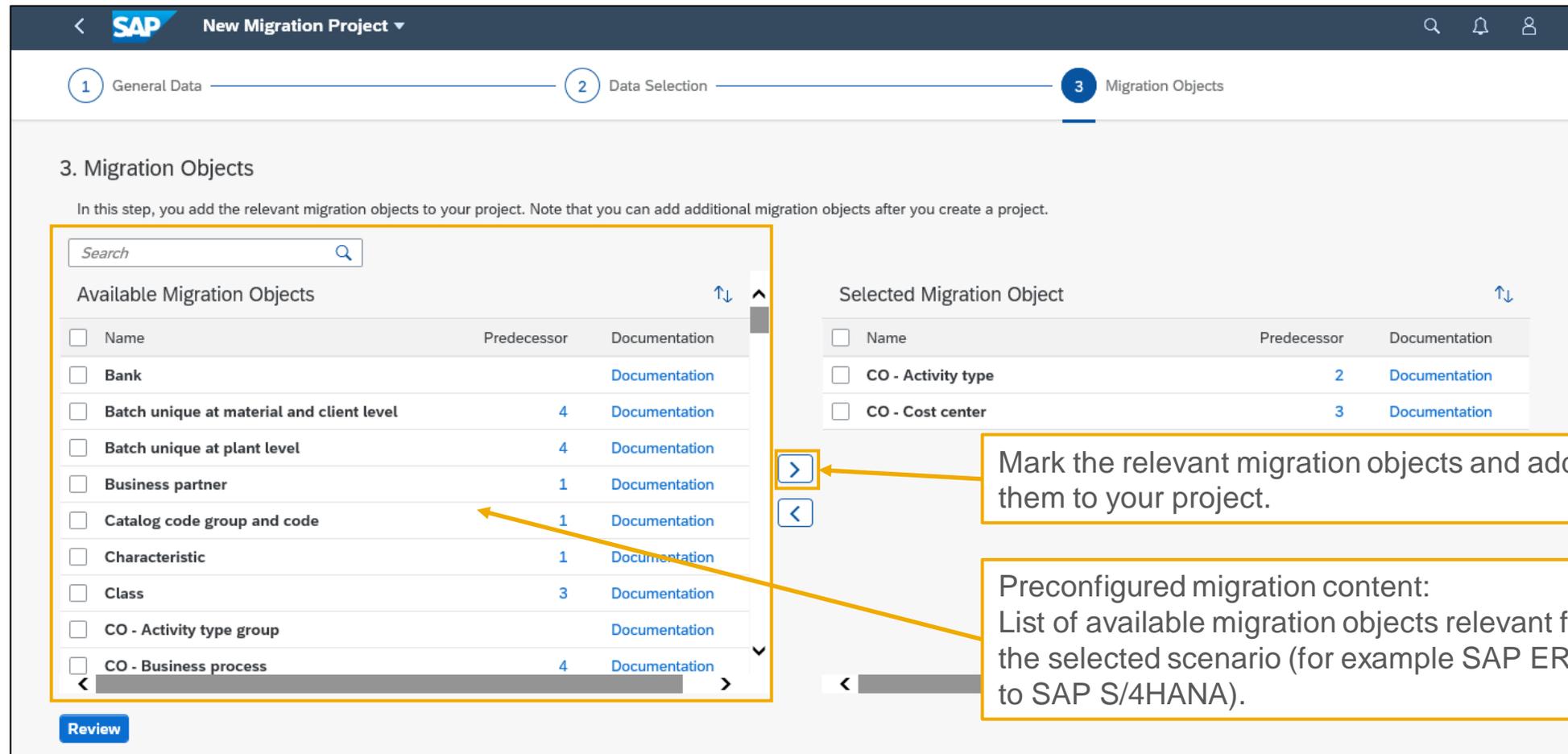
Preconfigured data selection based on key organization units, depending on migration scenario, for example company codes for SAP ERP to SAP S/4HANA



SAP S/4HANA Migration Cockpit – Direct Transfer

Create new migration project - migration objects

The migration cockpit delivers a larger quantity of migration objects depending on the selected migration scenario.



1 General Data ————— 2 Data Selection ————— 3 Migration Objects

3. Migration Objects

In this step, you add the relevant migration objects to your project. Note that you can add additional migration objects after you create a project.

Search

<input type="checkbox"/> Name	Predecessor	Documentation
<input type="checkbox"/> Bank		Documentation
<input type="checkbox"/> Batch unique at material and client level	4	Documentation
<input type="checkbox"/> Batch unique at plant level	4	Documentation
<input type="checkbox"/> Business partner	1	Documentation
<input type="checkbox"/> Catalog code group and code	1	Documentation
<input type="checkbox"/> Characteristic	1	Documentation
<input type="checkbox"/> Class	3	Documentation
<input type="checkbox"/> CO - Activity type group		Documentation
<input type="checkbox"/> CO - Business process	4	Documentation

<input type="checkbox"/> Name	Predecessor	Documentation
<input type="checkbox"/> CO - Activity type	2	Documentation
<input type="checkbox"/> CO - Cost center	3	Documentation

Review

Mark the relevant migration objects and add them to your project.

Preconfigured migration content:
List of available migration objects relevant for the selected scenario (for example SAP ERP to SAP S/4HANA).



SAP S/4HANA Migration Cockpit – Direct Transfer

Create new migration project - confirm

The migration cockpit delivers a larger quantity of migration objects depending on the selected migration scenario.

1. General Data

Name: Demo_2020_DT
Migration Approach: Migrate Data Directly from SAP System
Scenario: SAP ERP to SAP S/4HANA
Connection to Source System: UA8TRUST
Development Package: \$TMP [Edit](#)

2. Data Selection

Company Code:

3. Migration Objects

Name	Predecessor	Documentation	Edit
CO - Activity type	2	Documentation	
CO - Cost center	3	Documentation	

[Create Project](#) [Cancel](#)

Preconfigured data selection based on key organization units, depending on migration scenario, for example company codes for SAP ERP to SAP S/4HANA

Confirm your data selection by choosing the *Create Project* button.

SAP S/4HANA Migration Cockpit – Direct Transfer

Migration process



The migration cockpit guides you through the various steps of the data migration. You can also flexibly choose which steps you want to do next (select, mapping tasks, simulate, migrate).

The screenshot displays the SAP Migration Cockpit interface for a project named 'Demo_2020_DT'. The migration approach is 'Migrate Data Directly from SAP System' and the connection to the source system is 'UA8TRUST'. The interface shows a table of migration objects with columns for Migration Object, Data, Mapping Tasks, Simulation, Migration, Migration Progress, and Action. Two objects are listed: 'CO - Activity type' and 'CO - Cost center'. The 'Action' column for both objects shows a dropdown menu with options: Select, Mapping Tasks, Simulate, and Migrate. A callout box points to the 'Actions' dropdown menu, stating: 'You can execute actions for **several or all** migration objects in your project.' Another callout box points to the 'Select Data' dropdown menu, stating: 'The system proposes "Select Data" as the next action. You can start the selection for **one object only**.'

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input checked="" type="checkbox"/> Migration Object	Instances: 0	Open: 0	Errors: 0	Errors: 0		
<input checked="" type="checkbox"/> CO - Activity type	Excluded: 0	Done: 0	Successful: 0	Successful: 0 Not Started: 0	Migration Not Started	Select Mapping Tasks Simulate > Migrate >
<input checked="" type="checkbox"/> CO - Cost center	Instances: 0	Open: 0	Errors: 0	Errors: 0	Migration Not Started	Select Data Mapping Tasks Simulate Migrate

SAP S/4HANA Migration Cockpit – Direct Transfer

Migration object screen - overview



On the **Migration Object** screen, you get detailed information about a migration object.

The screenshot shows the SAP Migration Object screen for the object 'CO - Activity type' (Demo_2020_DT). The status is 'Ready for Processing'. The screen is divided into several sections: Documentation, Table Structure, History, Dependencies, and Technical Information. The 'Documentation' section contains a link to the SAP Help Portal. The 'Table Structure' section shows a table with columns for Name, Started By, Started On, Finished On, and Messages. The 'History' section shows a table with columns for Action, Started By, Started On, Finished On, and Messages.

Instances: 0 Open: 3 Errors: 0 Errors: 0
Excluded: 0 Done: 0 Successful: 0 Successful: 0 Migration Not Started Select Data

CO - Activity type

Status: Ready for Processing

Documentation Table Structure History Dependencies Technical Information

You can access the documentation for the migration object [here](#).

Table Structure

Tables (2)

Name
Activity master
Activity type texts

History

History (5)

Action	Started By	Started On	Finished On	Messages
--------	------------	------------	-------------	----------

To get detailed information about a migration object, click the migration object name in the **migration object** column.

You find a direct link to the migration object documentation in the SAP Help Portal.

The system displays the **migration object** screen, where you can view the following information:

- Link to [SAP Help Portal](#) Documentation
- Table structure
- History of events, including logs
- Dependencies to other migration objects
- Technical information (relevant for support)



SAP S/4HANA Migration Cockpit – Direct Transfer

Migration object screen – table structure and history

On the **Migration Object** screen, you get information on the table structure and the history.

The screenshot shows the SAP Migration Object screen for 'CO - Activity type' (Demo_2020_DT). The 'Table Structure' tab is selected, showing a hierarchy of tables. Below it, the 'History' section shows a list of actions completed for the migration object.

Name	Technical Table Name
Activity master	CSLA
Activity type texts	CSLT

Action	Started By	Started On	Finished On	Messages
Selection completed		16.07.2020, 17:43:28	16.07.2020, 17:49:01	Show Messages
Prepare object completed		16.07.2020, 17:30:37		
Copy completed		16.07.2020, 17:29:52		

In the *Table Structures* section, you see the relevant source system tables for the migration object. The system displays the source system tables in a hierarchy.

In the *History* section you see the different actions for the migration object. You can also view the log for each action regarding this object.



SAP S/4HANA Migration Cockpit – Direct Transfer

Selection/Reselection of data

If you have already selected data and choose the selection button again, you have the possibility to reselect the data.

Reselection of data

- add new instances from the source system to already selected instances (available since SAP S/4HANA 1909 – default behavior); no update of already selected instances
- delete former selection and select completely new (available as of SAP S/4HANA 2020)



If you have **changed** data in the source, first delete the formerly selected instances and start a completely new selection.



If you work with SAP S/4HANA 1909, you can use the report mentioned in the following [SAP Note 2857598](#) to delete the former selection and repeat the select of data.

Data Already Selected

 Data has already been selected for this migration object. You can either delete all selected data (except for data that has already been migrated) and start a completely new selection, or you can add additional instances to the existing selected data.

General Data
Connection to Source System:
Data Selection
Company Code:



SAP S/4HANA Migration Cockpit – Direct Transfer

Maintain value mapping

On the **Mapping Tasks** screen, you can view all the mapping tasks, you can maintain the value mapping and you can confirm them.

Mapping Tasks

Migration Project: Demo_2020_DT Migration Object: CO - Activity type

Activity Type

Status: To be confirmed
Type: Value Mapping
Used in: Migration Objects

Documentation: Show

Values

Values (32)

Source Controlling Area	Source Activity Type	Target Activity Type	Status	Action
<input type="checkbox"/>	0001	000101	To be confirmed	<input type="button" value="Confirm"/>
<input type="checkbox"/>	0001	000102	To be confirmed	<input type="button" value="Confirm"/>
<input type="checkbox"/>	0001	000103	To be confirmed	<input type="button" value="Confirm"/>
		000104	To be confirmed	<input type="button" value="Confirm"/>
		000105	To be confirmed	<input type="button" value="Confirm"/>
		A	To be confirmed	<input type="button" value="Confirm"/>
<input type="checkbox"/>	0001	ACT1	To be confirmed	<input type="button" value="Confirm"/>
<input type="checkbox"/>	0001	ACT2	To be confirmed	<input type="button" value="Confirm"/>

Search help provides existing values in the SAP S/4HANA target system.

You can specify value mappings and transform values from the source system to the target system.

Search help provides existing values in the SAP S/4HANA target system.

Target value	Description
000101	Producton LABOUR
000102	MACHINE HOURS
000103	Maintenance Electric
000104	test
000105	SETUP HOURS
010101	Producton LABOUR
010102	MACHINE HOURS
010103	Maintenance Electric



The mapping tasks will be filled with values only after the system has selected the data from the source system. Without selection, the mapping tasks will be empty.



SAP S/4HANA Migration Cockpit – Direct Transfer

Mapping upload download

On the **Mapping Tasks** screen, you can download empty templates or download / upload mapping values.

The screenshot shows the SAP Mapping Tasks interface. At the top, there are buttons for "Download Mapping Template" and "Upload Values". A table below lists mapping tasks with columns for "Mapping Task", "Activity Type", "Controlling Area", and "Cost Element". Annotations with arrows point to these buttons and a "Download Values" button in the table.

You can download empty mapping templates to fill them.

You can download the automatically filled value mappings.



If you work with SAP S/4HANA 1909, you can download/upload mappings only in transaction LTMOM

- When you upload the mapping values, you have different options:
- Confirm values automatically
 - Do not confirm values automatically
 - Replace existing values
 - Modify values / Add values

The screenshot shows the SAP Upload Mapping Values interface. It includes an "Additional Settings" section with a text box explaining the upload process. Below, there is a table for "Mapping Tasks(1)" with columns for "Options for Confirming Values", "Options for Loading Values", and "Number of Files". A dropdown menu is open for "Options for Loading Values", showing options like "None", "Replace Existing Values", and "Modify Values / Add Values".



Note that the files may contain target values that were created automatically (for example internal numbering). Ensure that you adjust the target values (or remove them completely in the files) before uploading the file to another system.

SAP S/4HANA Migration Cockpit – Direct Transfer

Mapping download/upload – check information



The screenshot shows the SAP Monitoring interface for a migration project. The top navigation bar includes the SAP logo and 'Monitoring'. Below it, the project name 'Demo_Direct_Transfer_OP2020' is displayed. A filter section contains dropdown menus for 'Type' (set to 'All Types'), 'Action' (set to 'All Actions'), and 'Status' (set to 'All Activities'). There are also input fields for 'Name', 'Started by', 'Started at', and 'Finished On'. A 'Go' button and 'Adapt Filters (1)' are visible. The main area shows a table of activities with 27 items. The first activity is 'Upload of mapping values' for 'Business Area', which is 'Completed'. The 'Options' column for this activity has a 'Show Messages' button highlighted with a yellow box.

By *Show messages* you can see all the logs related to the upload of the mapping values



In the **Monitoring** screen, you can check the upload activity afterwards: when the upload was done, who did the upload and more

The screenshot shows the 'Migration Messages' screen. The top navigation bar includes the SAP logo and 'Migration Messages'. Below it, the project name 'Demo_Direct_Transfer_OP2020' and event 'Upload of mapping values completed' are shown. There are also fields for 'Started By', 'Started On', and 'Finished On'. A summary bar shows 7 messages: 0 Errors, 0 Warnings, 0 Success, and 7 Information. Below this is a table of messages with columns for Type, Message Title, Message Class, Message Number, and Date and Time.

Type	Message Title	Message Class	Message Number	Date and Time
[i]	Uploading mapping values for mapping task Business Area	/LTB/MC	236	26.10.2020, 14:13:06
[i]	Option for loading mapping values: Replace Existing Mapping Values	/LTB/MC	237	26.10.2020, 14:13:06
[i]	Option for confirming values: Do Not Confirm Values Automatically	/LTB/MC	240	26.10.2020, 14:13:06
[i]	Upload of mapping values started (file Business Area_changed_201026.xml)	/LTB/MC	242	26.10.2020, 14:13:06
[i]	Upload of mapping values completed (file Business Area_changed_201026.xml)	/LTB/MC	243	26.10.2020, 14:13:06
[i]	All existing mapping values have been deleted	/LTB/MC	241	26.10.2020, 14:13:06
[i]	6 mapping values have been added for mapping task Business Area.	/LTB/MC	257	26.10.2020, 14:13:06



SAP S/4HANA Migration Cockpit – Direct Transfer

Migration object instances list

On the **Migration Object Instances** screen, you can view the records for each migration object instance.

The screenshot shows the SAP Migration Object Instances interface. The main area displays a list of migration object instances with columns for Controlling Area, Activity Type, Valid To Date, Activity Type Category, Variant Activity Type Category for Actual Postings, Additional Fields, Action, and Status. Three callouts provide instructions: 1. A search bar and filter fields (Controlling Area, Activity Type, Valid To Date, Activity Type Category) are highlighted with a yellow box, with a callout stating 'The system offers various possibilities to search and filter the list.' 2. A gear icon in the top right of the list area is highlighted with a yellow box, with a callout stating 'Use the gear wheel to select the columns to be displayed.' 3. A right-pointing arrow icon in the rightmost column of the list is highlighted with a yellow box, with a callout stating 'Click the arrow to view the migration object instance details.' Below the main list, a detailed view of a migration object instance is shown, including fields for Controlling Area, Activity Type, Valid To Date, Activity Type Category, Variant Activity Type Category for Actual Postings, Migration Object, and Migration Object Instance. A table titled 'Tables (2)' is also visible, listing 'Activity master, CSLA' and 'Activity type texts, CSLT'. To the right, a 'CSLA - Activity master' table is shown with one record: Client 950, Controlling Area 0001, Activity Type 000101, Valid To Date 9999-12-31, Valid-From Date 2017-01-01, Activity Unit H, and Activity Type Category 1.

Client	Controlling Area	Activity Type	Valid To Date	Valid-From Date	Activity Unit	Activity Type Category
950	0001	000101	9999-12-31	2017-01-01	H	1



SAP S/4HANA Migration Cockpit – Direct Transfer

Single instance processing – only Direct Transfer

On the **Migration Object Instances** list you can simulate, migrate or exclude single instances or have a look at the error messages.

To exclude a single instance, mark the entry, and press the *Exclude* button.

CO - Activity type (32)
Demo_2020_DT

Mass Processing

Show All

Messages Simulate Migrate **Exclude**

<input type="checkbox"/>	Controlling Area	Activity Type	Valid To Date	Activity Type Category	Variant Activity Type Category for Actual Postings	Additional Fields	Action	Status
<input checked="" type="checkbox"/>	0001	000101	99991231	1		Display All	Selected	<input checked="" type="checkbox"/> Success
<input type="checkbox"/>	0001	000102	99991231	1		Display All	Selected	<input checked="" type="checkbox"/> Success

Warning

You are going to exclude the selected migration object instances.

If you exclude migration object instances, we recommend that you analyze the impact on dependent migration objects and ensure that the instances in the dependent objects can still be processed successfully (for example during the simulation or migration).

Are you sure you want to exclude the selected migration object instances?

OK Cancel

Status

Excluded

Demo_2020_DT

Running Activities 0

Migration Approach: Migrate Data Directly from SAP System

Connection to Source System: UA8TRUST

Show All

<input type="checkbox"/>	Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input type="checkbox"/>	CO - Activity type	Instances: 32 Excluded: 1	Open: 3 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 31	Migration Not Started	Mapping Tasks
<input type="checkbox"/>	CO - Cost center	Instances: 38 Excluded: 0	Open: 17 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 38	Migration Not Started	Mapping Tasks

On the migration project screen, you will now find one excluded item. The number of items to be migrated (not started) has changed from “32” to “31”.



SAP S/4HANA Migration Cockpit – Direct Transfer

Migration object instances - mass processing

On the **Migration Object Instances** list you can exclude, undo exclude, simulate and migrate instances in a mass processing.

CO - Activity type (32)
Demo_Direct_Transfer_OP2020

Controlling Area: [] Activity Type: [] Valid To Date: []

Activity Type Category: [] Variant Activity Type Category fo... []

Adapt Filters Go

Show All Messages Simulate Migrate Exclude

Controlling Area	Activity Type	Valid To Date	Activity Type Category	Variant Activity Type Category for Actual Postings	Additional Fields	Action	Status
<input type="checkbox"/>	0001	000101	99991231	1	Display All	Selected	Success
<input type="checkbox"/>	0001	000102	99991231	1	Display All	Selected	Success
<input type="checkbox"/>	0001	000103	99991231	2	Display All	Selected	Success

1. Action

Choose an action

Exclude

Undo Exclude

Simulate

Migrate

2. Selection

Controlling Area: [*0001*] Activity Type Category: [] Activity Unit: []

Activity Type: [a..b] Variant Activity Type Category for Actual Postings: [] Allocation Cost Element: []

Valid To Date: [] Indicator: Actual Allocation Price: [] Action/Status: [Show All]

Update

3. Data Preview

The action "Simulate" will be performed for the following 9 instances

Controlling Area	Activity Type	Valid To Date	Activity Type Category	Variant Activity Type Category for Actual Postings	Additional Fields	Source	Action	Status
0001	A	99991231	4		Display All		Selected	Success
0001	ACT1	99991231	4	4	Display All		Selected	Success

You can filter a subset of instances and execute one of the following actions:

- Exclude
- Undo Exclude
- Simulate
- Migrate

SAP S/4HANA Migration Cockpit – Direct Transfer

Simulation / migration



On the **Migration Project** screen, you can choose, which items you want to simulate / migrate.

Example migration: migrate single items (on the migration object screen), migrate random 10% or random 500 items, migrate only instances with errors, migrate all successfully simulated instances or migrate all instances.

The screenshot shows the Migration Project screen with a table of migration objects. The 'Actions' menu is open, showing options: Select, Mapping Tasks, Simulate, and Migrate. A sub-menu is open under 'Migrate', showing options: All Instances, All Instances with Errors, and All Successfully Simulated Instances.

You can simulate/migrate **several migration objects** at once

- Simulation: selecting all instances or all instances with errors
- Migration: selecting all instances, the ones with errors or all successfully simulated instances

The screenshot shows the Migration Project screen with a table of migration objects. The 'Mapping Tasks' menu is open, showing options: Select Data, Mapping Tasks, Simulate, and Migrate.

You can simulate/migrate **only one migration object** and choose different options.

The screenshot shows the 'New Migration' dialog box. The 'CO - Activity type' dropdown menu is open, showing the option 'All Instances' selected.

The screenshot shows a list of migration options. The options are: Random 10%, Random 500, All Instances, All Successfully Simulated Instances, and Custom Selection.



SAP S/4HANA Migration Cockpit – Direct Transfer

Migration project screen – more buttons

On the **Migration Project** screen, you trigger all the steps that are required to transfer the data for each migration object to the target SAP S/4HANA system. In addition you can quickly access additional information and tasks.

The screenshot shows the SAP Migration Project interface. At the top, there is a navigation bar with the SAP logo and the text 'Migration Project'. Below this, there is a search bar and a dropdown menu for 'Running Activities' with a value of 0. A horizontal menu contains buttons for 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. The main content area displays a table of migration objects with columns for 'Migration Object', 'Data', and 'Mapping Tasks'. The table lists three objects: 'CO - Activity type' and 'CO - Cost center'. A callout box with a yellow border highlights the 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project' buttons, providing a list of their functions. Below the callout box, there is a 'Mapping Tasks' button with a dropdown arrow.

Buttons for quick access:

- **Monitoring** – to view a log of all activities
- **Mapping tasks** – all mapping tasks for your project
- **Job management** – adjust number of background jobs
- **Settings** – general settings for example add new migration objects
- **Finish project**

See more details in application help.

Migration Object	Data	Mapping Tasks
<input type="checkbox"/>	Instances: 32	Open: 3
<input type="checkbox"/> CO - Activity type	Excluded: 1	Done: 0
<input checked="" type="checkbox"/> CO - Cost center	Instances: 38 Excluded: 0	Open: 17 Done: 0

SAP S/4HANA Migration Cockpit – Direct Transfer Monitoring



On the **monitoring** screen, you can view the active and completed activities.

The screenshot shows the SAP Monitoring interface for 'Demo_2020_DT'. At the top, there are filter fields for Type (All Types), Name, Action (All Actions), Started by, Started at, and Finished On. A Status filter (All Activities) is also present. A 'Go' button and 'Adapt Filters (1)' are located to the right of the filters. Below the filters is a table titled 'Activities (14)'. The table has columns for Activity, Object Type, Started By/On, Status, and Options. The first activity is 'Download mapping values' for 'Demo_2020_DT', which is completed and has a 'Download File' option. The second activity is 'Select data' for 'CO - Cost center', which is completed and has a 'Show Messages' option. The third activity is also 'Select data' for 'CO - Cost center', completed, with a 'Show Messages' option. The fourth activity is 'Select data' for 'CO - Activity type', completed, with a 'Show Messages' option.

Activity	Object Type	Started By/On	Status	Options
Download mapping values Demo_2020_DT	Migration Project	25.09.2020, 13:54:04	Finished On: 25.09.2020, 13:54:05 Runtime: 1 Minutes	Download File
Completed				
Select data CO - Cost center	Migration Object	25.09.2020, 10:55:30	Finished On: 25.09.2020, 10:56:10 Runtime: 1 Minutes	Show Messages
Completed				
Select data CO - Cost center	Migration Object	25.09.2020, 10:49:29	Finished On: 25.09.2020, 10:50:14 Runtime: 1 Minutes	Show Messages
Completed				
Select data CO - Activity type	Migration Object	25.09.2020, 10:49:25	Finished On: 25.09.2020, 10:50:41 Runtime: 2 Minutes	Show Messages
Completed				

The system offers various possibilities to search and filter the list.

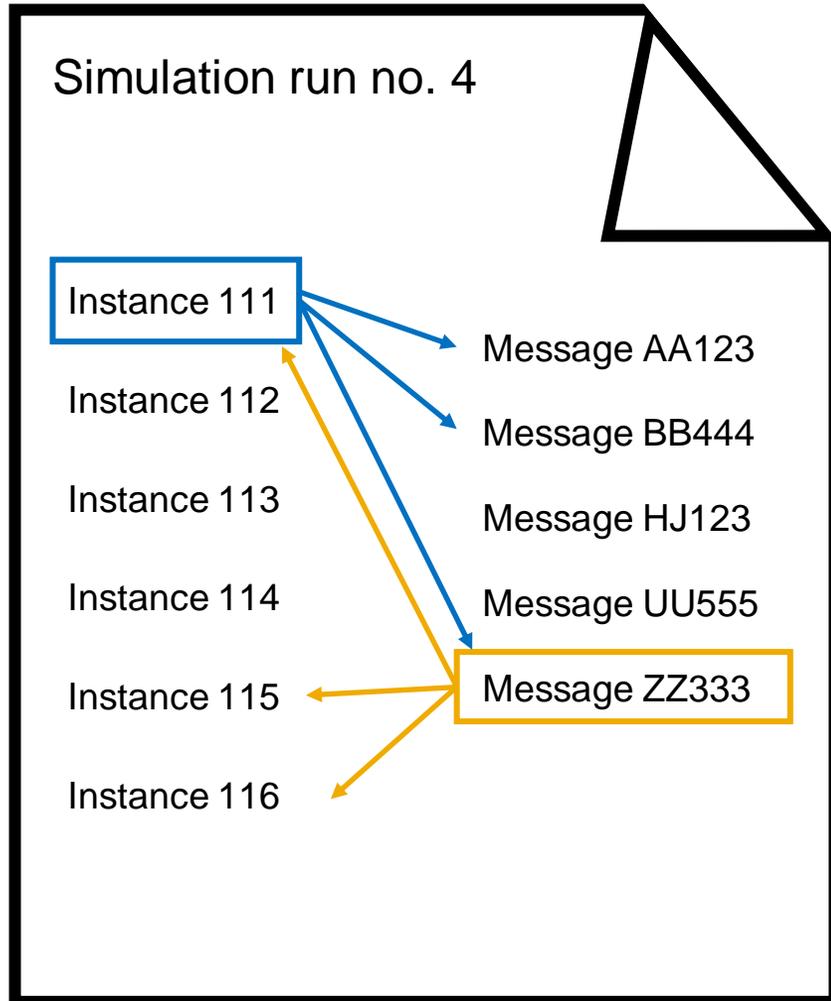
You can view the downloaded files (for example downloaded mapping values.)

You can have a look at the messages for a single activity.

Different Message Analysis Capabilities



View: which messages occurred for an activity?



View: which messages occurred for one instance?

NEW with 2020 FPS01

View: which instances are concerned by a message?



Simulation run no. 1

Simulation run no. 2

Simulation run no. 3

SAP S/4HANA Migration Cockpit – Direct Transfer

Additional view on messages



Tip

- Use filters and messages types
- Group, sort
- Download to MS Excel

Select relevant migration objects – press Messages button

Toggle between migration objects

Number of instances with this message with forward navigation

Type	Message	Action	Instances
⊗	Transfer function module [...] ended with error (s. log for details) Message Class: CNV_OT_APPL_PE Message Number: 057	Simulated	23
⊗	[...] [...] is longer than [...] characters Message Class: AR Message Number: 103	Simulated	12
⊗	[...] [...] must have length [...] Message Class: AR Message Number: 102	Simulated	10
⊗	[...] [...] must contain only numbers	Simulated	1

Forward navigation to instance list or details of one instance

Transfer function module [...] ended with error (s. log for details)

Message Type: Error
Message Class: CNV_OT_APPL_PE
Message Number: 057

Project: MH_2021_0126
Migration Object: Bank
Action: Simulated

Instances: 23

Date and Time	Message Text	Key Fields for Migration Object Instance
26.01.2021, 15:39:23	Transfer function module BAPI_BANK_CREATE ended with error (s. log ... more) Show Long Text	AU 0300112
26.01.2021, 15:39:23	Transfer function module BAPI_BANK_CREATE ended with error (s. log ... more) Show Long Text	AU 0300113
26.01.2021, 15:39:23	Transfer function module BAPI_BANK_CREATE ended with error (s. log ... more) Show Long Text	AU 0300114



SAP S/4HANA Migration Cockpit – Direct Transfer

Copy projects

The screenshot shows the 'Migration Projects' overview page in SAP. At the top, there are filters for 'Standard', 'Running Activities' (2), and 'Activities with Error' (454). Below the filters is a search bar and several filter fields: 'Name', 'Status' (set to 'All'), 'Created By', 'Migration Approach' (set to 'All'), and 'Connection to Source System'. A table below lists migration projects. The first row is selected, and the 'Copy' button in the table's action menu is highlighted with a yellow box.

Name	Status	Created By / Created On	Migration Approach / Scenario	Connection to Source System	Migration Objects
<input checked="" type="checkbox"/> MH_2021_0126	In Process	26.01.2021, 15:15:06	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection UA8TRUST	2

Select relevant migration project – press *Copy* button

Change the selection criteria, for example company codes.
Add migration objects (after copy is finished).
Remove migration objects in transaction LTMOM

The screenshot shows the 'New Migration Project' wizard in SAP, currently on 'Step 1: General Data'. The wizard has three steps: 'General Data', 'Data Selection', and 'Migration Objects'. The 'General Data' section contains the following fields:

- Migration Approach:** Migrate Data Directly from SAP System
- Name:** Copy of MH_2021_0126
- Scenario:** SAP ERP to SAP S/4HANA
- Connection to Source System:** UA8TRUST
- Development Package:** \$TMP

Yellow boxes and arrows highlight the 'Name' and 'Connection to Source System' fields, with explanatory text boxes pointing to them.

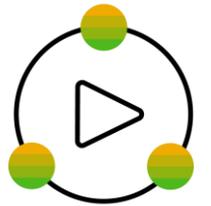
You can enter a new name for the project.

Change the connection to source system and development package.



Video

Migrate Data Directly from SAP Source System





SAP S/4HANA Migration Cockpit – Direct Transfer

Technical preconditions

Technical preconditions

- SAP ERP to SAP S/4HANA, the lowest supported ERP release is ERP 6.0 (SAP NetWeaver 7.0),
- SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA, the supported release is AFS 6.0,
- SAP EWM to decentralized EWM, the lowest supported EWM release is EWM 5.1 (SAP NetWeaver 7.0).
- SAP CRM to SAP S/4HANA for customer management, lowest supported release is SAP CRM 7.0
- SAP APO SPP to SAP S/4HANA eSPP - recommended source system release SCM 7.0

Necessary preparations in the system landscape

- The add-on DMIS_2011 SP19 or higher needs to be installed in the source system (included in the license for SAP S/4HANA 2020)
- RFC connection from ERP/AFS/EWM/CRM source to SAP S/4HANA target system*
- Setup FIORI
- Apply necessary notes: start with [Composite SAP Note 2747566](#)
- Check customizing: relevant customizing in the target must be available (for example, organizational units, define document type for migration, define accounts for migration, remove account blocks)
- Ensure availability of required authorizations
- For required roles, please check the installation guide (chapter 7)



[Installation guide \(check chapter 7\)](#)

*Caution: It is not supported to use RFC connections with trusted log on.



SAP S/4HANA Migration Cockpit – Direct Transfer

Process-related preparations

Define a mapping strategy between SAP source and SAP S/4HANA target

- Standard APIs are used to load the data into SAP S/4HANA target system
- Where configuration in the source deviates from the configuration in the target, adequate mappings have to be defined upfront, such as rename of organizational units, cost centers, document types,
- In case of questions carefully check the object-related documentation

Test and productive migration

- First create a project in a development system and then transport the project to a test system, which is a copy of the production system.
- The more the data in the test system resembles the data in the production system, the more precise the test.
- Several test data migrations are required before you transfer data to the SAP S/4HANA production system.
- For each new test data migration, you transport a migration project that includes any corrections or refinements. 
- You transport your project from the development system to your productive system once the tests have been executed successfully
- Mapping value download and upload
 - You can download mapping values of your previous test and upload them into your new project. Note, that you might need to adapt the mapping values before you upload them to the new system for example so that you do not upload value mapping from internal numbering.

SAP S/4HANA Migration Cockpit – Direct Transfer

What's new in 2020?

- One harmonized user experience using Fiori UI for all approaches
- Migration object documentation available on help.sap.com
- Transport concept
- Transport of projects between systems
- Reselection of data – functionality integrated in Fiori
- Mapping download/upload in Fiori – templates or with populated values
- Migration object instances - mass processing
- Monitoring functionality



SAP S/4HANA Migration Cockpit – Direct Transfer

What's new in 2020 FPS01?

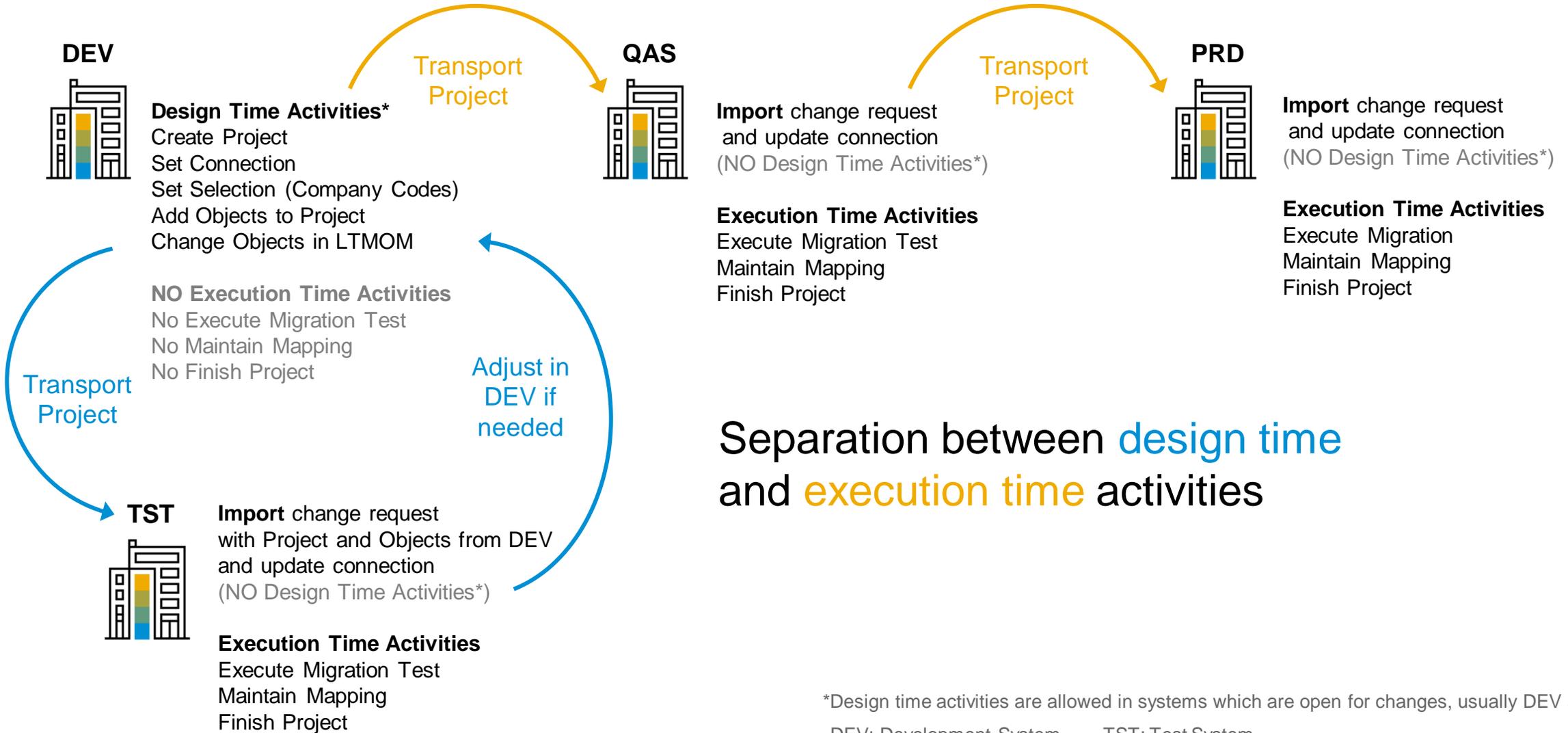
- Additional view on messages
- Copy projects
- Screen refresh function





SAP S/4HANA Migration Cockpit – Direct Transfer

Transport concept



Separation between design time and execution time activities

*Design time activities are allowed in systems which are open for changes, usually DEV systems

DEV: Development System TST: Test System

SAP S/4HANA Migration Cockpit – Direct Transfer

Migration object modeler



Flexible and extendable

- Create user defined migration objects using a wizard
- Add customer tables or fields to a standard migration object or to a new migration object
- Add or change selection criteria of standard migration objects or user defined migration objects
- Possibility to add projects, migration objects, and rules (mapping tasks) to a transport request
- Debug the transformation and/or the posting process
- Use standard APIs or code your function module
- Copy migration objects
- Create or edit transformation rules

The screenshot displays the SAP Migration Cockpit interface. On the left, the 'Object Browser' shows a tree view for the project 'Demo_2020_DT'. The tree includes 'Migration Objects' (with sub-items 'S4_CO_ACTIVITY_TYPE' and 'S4_CO_COST_CENTER'), 'Rules' (with sub-items 'Fixed Values', 'Value Mappings', and 'Source Code'), and 'Advanced Search (All Objects)'. The right pane shows 'Migration Project' details for 'Demo_2020_DT', including 'Project Details', 'Approach' (Migrate Data Directly from SAP System), 'Scenario' (SAP ERP to SAP S/4HANA), 'RFC Destination' (UA8TRUST), 'Package' (SMP - Temporary Objects (never transported!)), 'Technical UUID' (FA163E8545E71EEAB1EF257E068D0963), and 'Retention Information' (Project is Finished, Finished On/By, Retention Date, Days Remaining).

SAP S/4HANA Migration Cockpit – Direct Transfer

SAP S/4HANA Migration object modeler



Flexible and extendable

- Create user defined migration objects using a wizard
- Add customer tables or fields to a standard migration object or to a new migration object
- Add or change selection criteria of standard migration objects or user defined migration objects
- Possibility to add projects, migration objects, and rules (mapping tasks) to a transport request
- Debug the transformation and/or the posting process
- Use standard APIs or code your function module
- Copy migration objects
- Create or edit transformation rules

Transaction:
LTMOM



The screenshot displays the SAP S/4HANA Migration Cockpit interface. On the left, the 'Object Browser' shows a tree view for the project 'Demo_2020_DT'. The tree includes 'Migration Objects' (S4_CO_ACTIVITY_TYPE and S4_CO_COST_CENTER), 'Rules' (Fixed Values, Value Mappings, Source Code), and 'Advanced Search (All Objects)'. The right pane shows 'Migration Project' details for 'Demo_2020_DT', including 'Project Details' (Approach: Migrate Data Directly from SAP System, Scenario: SAP ERP to SAP S/4HANA, RFC Destination: UA8TRUST, Package: \$TMP), 'Technical UUID' (FA163E8545E71EEAB1EF257E068D0963), and 'Retention Information' (Project is Finished, Finished On/By, Retention Date, Days Remaining: 0).



SAP S/4HANA Migration Cockpit – Direct Transfer

SAP S/4HANA Migration object modeler - what's new in 2020?

1. One harmonized user experience using SAP GUI UI for all approaches
2. Transport: add projects, objects and rules to transport requests
3. Copy and delete migration objects
4. Selection: skip rule; inherit restrictions within the data model
5. Create source code rules; custom-created mapping rules automatically filled with mappings
6. Debugging capabilities for transformation and simulation (since 1909)
7. Finished projects in display mode only

SAP S/4HANA Migration Object Modeler

Deep dive slides



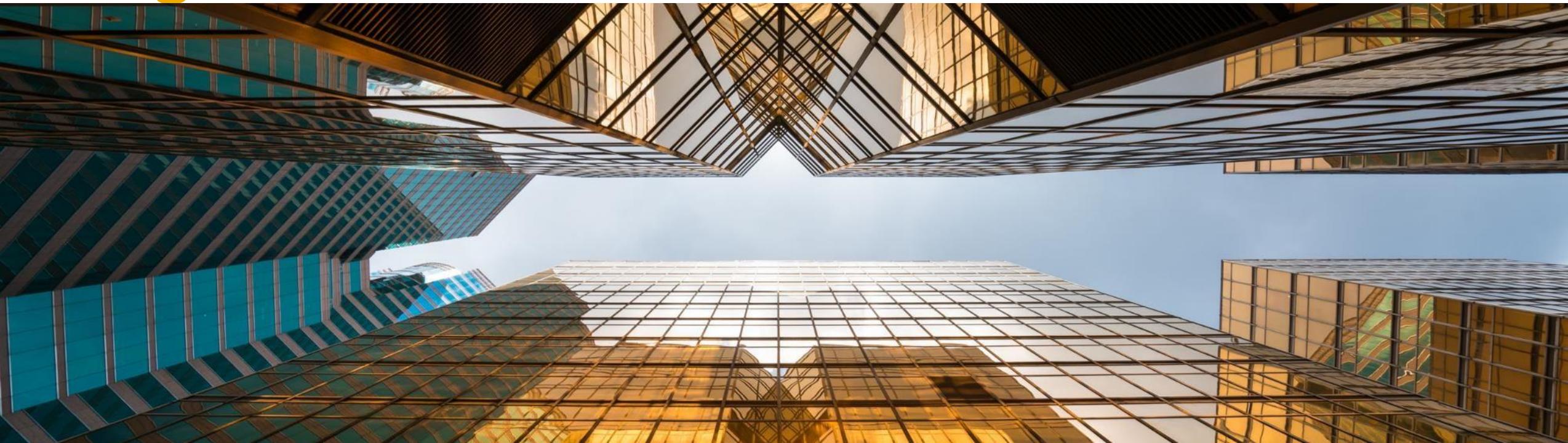
The screenshot shows a presentation slide with a dark grey border. At the top, there is a navigation bar with icons for back, forward, search, and zoom, along with the text '1 of 70' and 'Automatic Zoom'. The main content area features a large image of a modern glass and steel architectural structure. Below the image, the text reads: 'SAP S/4HANA 2020 - Migration Cockpit' in bold black, 'Migration Object Modeler' in bold orange, and 'Migrate data directly from SAP system' in bold blue. In the bottom left corner, it says 'October, 2020', 'Version 1.0', and 'PUBLIC'. In the bottom right corner, there is the SAP logo with the tagline 'THE BEST RUN'.



[SAP S/4HANA Migration Object Modeler \(Direct Transfer\)](#)



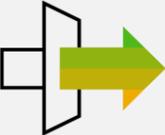
SAP S/4HANA Migration Cockpit - Migrate Data Directly from SAP System – Migration Scenarios





SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

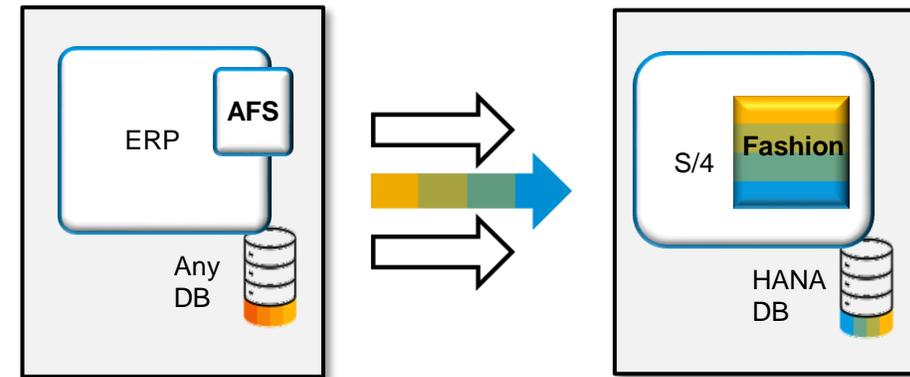
SAP S/4HANA migration cockpit - migrate data directly from SAP system



Migrate data directly from SAP System
Selection of data from SAP source system through RFC
Data Selection based on company code

79+  79 Pre-defined AFS specific migration objects are supported

 Capability to derive complex selection criteria automatically from company code



AFS standalone system*

S/4HANA with fashion module integrated

*Prerequisite for transfer data directly from SAP System: DMIS installation in source



SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

SAP S/4HANA migration cockpit – create new migration project

SAP New Migration Project ▾

1 General Data ————— 2 Data Selection

1. General Data

i Here, you specify general information for your project. Note that it will not be possible to change the scenario or the development package after you create the project.

Migration Approach: Migrate Data Directly from SAP System

Name: *
New Migration Project AFS

Scenario: *
SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

Connection to Source System: *
LOKCLNT200

Development Package: *
\$tmp

Step 2

Select your scenario:
SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

Enter a source system connection

Enter a valid development package

SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

SAP S/4HANA migration cockpit – create new migration project



< **SAP** New Migration Project ▾

1 General Data ————— 2 Data Selection ————— 3 Migration Objects

2. Data Selection

The Migration Cockpit uses organizational units such as company codes to select data from the source system. These organizational units are predefined for each scenario. For example, the scenario SAP ERP to SAP S/4HANA uses company codes to select data from the source system. Only data that is relevant for the specified organizational units will be selected from the source system.

Company Code: *

0001 (SAP A.G.) ⊗

Step 3

Data selection based on company code (depending on migration scenario)

SAP Apparel and Footwear (SAP AFS) to SAP S/4HANA

SAP S/4HANA migration cockpit – select migration objects



1 General Data | 2 Data Selection | 3 Migration Objects

3. Migration Objects

In this step, you add the relevant migration objects to your project. Note that you can add additional migration objects after you create a project.

Search

Available Migration Objects	Predecessor	Documentation
<input type="checkbox"/> Name		
<input type="checkbox"/> AFS - Configuration class for material grid	1	Documentation
<input type="checkbox"/> AFS - Dimensional characteristic	2	Documentation
<input type="checkbox"/> AFS - Distribution curve	2	Documentation
<input type="checkbox"/> AFS - Distribution curve condition	2	Documentation
<input type="checkbox"/> AFS - Non-dimensional characteristic	2	Documentation
<input type="checkbox"/> AFS - Planned indep. reqt at material level	1	Documentation
<input type="checkbox"/> AFS - Planned indep. reqt at SKU level	1	Documentation
<input type="checkbox"/> AFS - Purchase grid condition record	2	Documentation
<input type="checkbox"/> AFS - Quantity distribution profile	1	Documentation
<input type="checkbox"/> AFS - Sales grid condition record		
<input type="checkbox"/> AFS - Segmentation default values		
<input type="checkbox"/> AFS - Segmentation strategy		
<input type="checkbox"/> AFS - Segmentation structure	1	Documentation
<input type="checkbox"/> AFS - Value added service	1	Documentation
<input type="checkbox"/> Bank		Documentation
<input type="checkbox"/> Batch unique at plant level	3	Documentation
<input type="checkbox"/> Class	2	Documentation
<input type="checkbox"/> CO - Activity type	3	Documentation
<input type="checkbox"/> CO - Activity type group		Documentation
<input type="checkbox"/> CO - Business process		Documentation
<input type="checkbox"/> CO - Business process group		Documentation

Selected Migration Object

Selected Migration Object	Predecessor	Documentation
<input type="checkbox"/> Name		
<input type="checkbox"/> AFS - Article	3	Documentation
<input type="checkbox"/> AFS - Season	1	Documentation

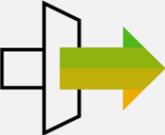
Select migration objects in scope

Preconfigured migration content:
List of available migration objects

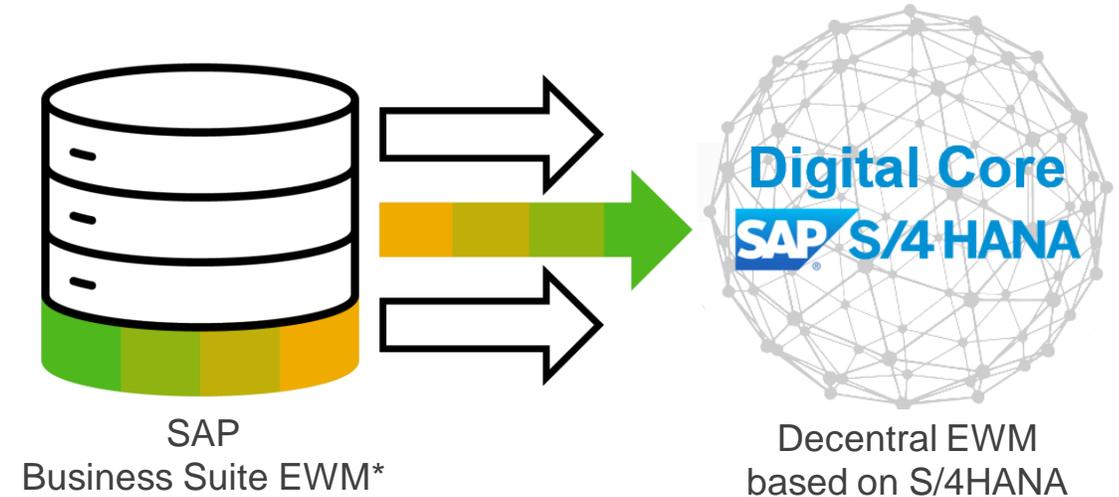
Review

SAP EWM to Decentralized EWM based on SAP S/4HANA

SAP S/4HANA migration cockpit - migrate data directly from SAP system



Migrate data directly from SAP system
Selection of data from SAP source system through RFC
Data Selection based on warehouse number



Preconfigured migration objects



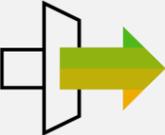
- Material flow system
- Physical inventory settings
- Production supply area
- Resource and user maintenance
- Resource execution settings
- Resource group and queue settings
- Shipping and receiving settings
- Warehouse application log settings
- Warehouse fixed bin assignment log settings
- Warehouse storage bin sorting
- Warehouse product
- Warehouse stock
- Warehouse storage bin
- Workcenter dependent settings
- Workcenter determination
- Route
- Zone
- Zone Hierarchy
- Condition Records (warehouse-independent)
- Condition Records (warehouse-dependent)

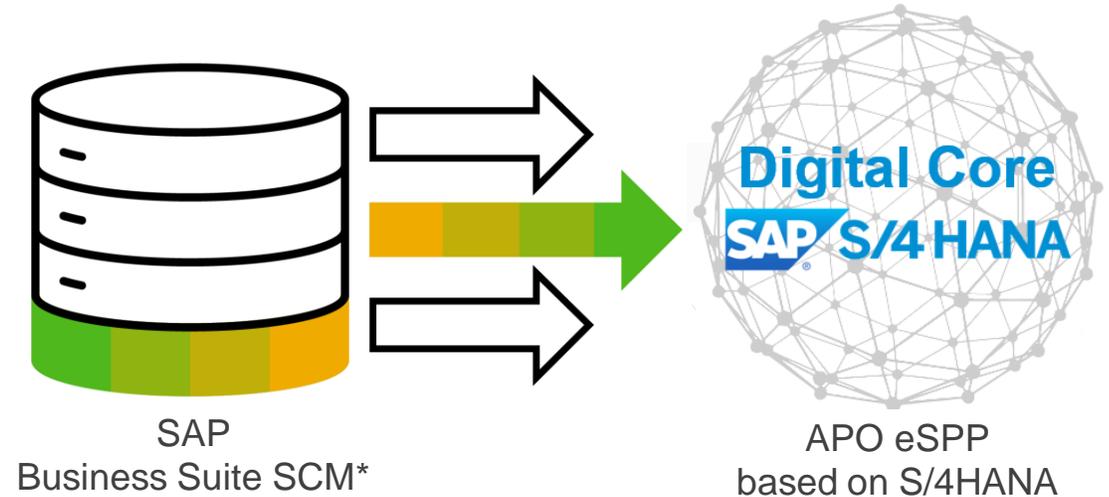
*Prerequisite for Migrate data directly from SAP System: DMIS installation in source

SAP SCM (APO/ SPP) to eSPP based on SAP S/4HANA

SAP S/4HANA migration cockpit - migrate data directly from SAP system



 Migrate data directly from SAP system
Selection of data from SAP source system through RFC
Data Selection based on plant



Preconfigured migration objects



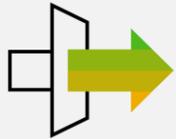
- Bill of Distribution – Master
- Bill of Distribution – Product Assignment
- Transportation Lanes with Sourcing
- Location Products
- Locations
- MRP Area
- Product

**Related support component for content: SCM-APO-SPP

*Prerequisite for Migrate data directly from SAP System: DMIS installation in source
Recommended source system release SCM 7.0

SAP CRM to SAP S/4HANA for Customer Management

SAP S/4HANA migration cockpit - migrate data directly from SAP system



Migrate data directly from SAP system

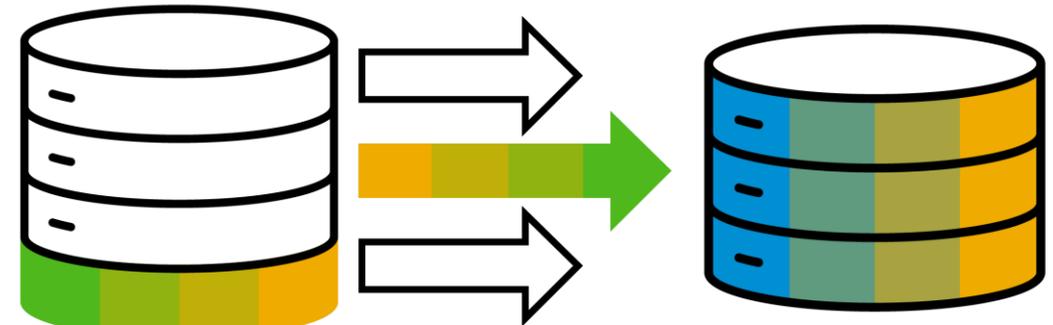
Selection of data from SAP source system through RFC

Data Selection based on Sales Organization



Preconfigured migration object

- Activities



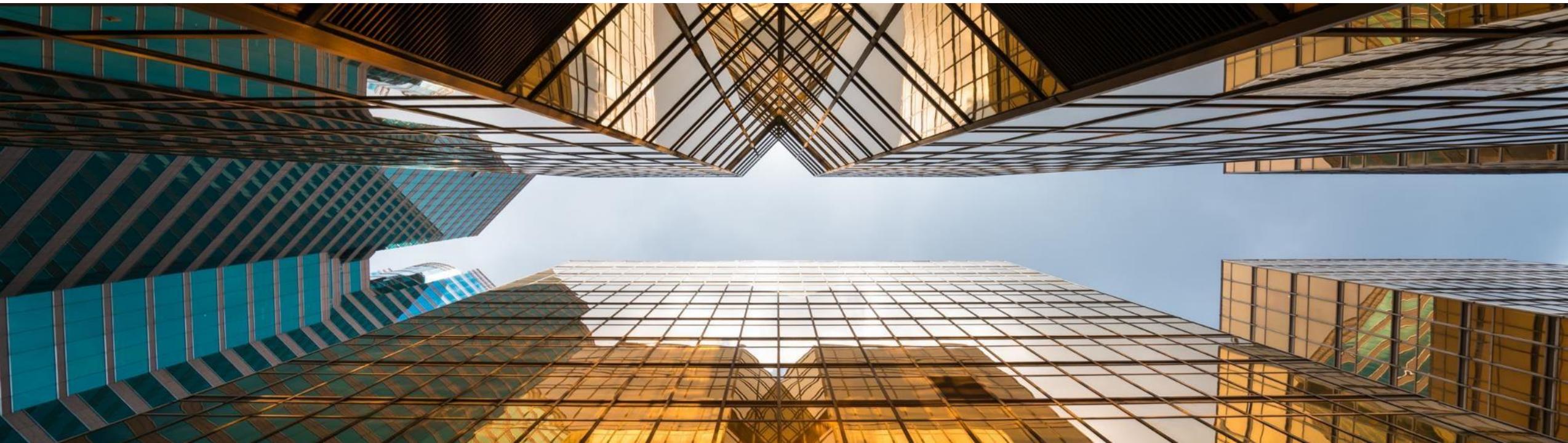
SAP CRM 7.0*

S/4HANA for customer management

*Prerequisite for transfer data directly from SAP System: DMIS installation in source

SAP S/4HANA Migration Cockpit

Summary Migration Approaches



SAP S/4HANA Migration Cockpit – Comparison of Migration Approaches

SAP S/4HANA 1909

	 Transfer data using files	 Transfer data using Staging Tables	 Transfer data directly from SAP system
Availability	  SAP S/4HANA Cloud SAP S/4HANA	  SAP S/4HANA Cloud SAP S/4HANA	 SAP S/4HANA
Source system	Any source system (SAP or non-SAP)	Any source system (SAP or non-SAP)	ABAP-based SAP source systems
Data volume	Small and medium volumes of data	Large volumes of data	Any volumes of data
Data provisioning	XML template files filled by customers	Staging Tables filled by customers (using for example SAP Data Services, SDI, SAP HANA Studio, open SQL, or any 3rd party ETL Tools)	Data selected and extracted directly from SAP system
Data cleansing	Before starting the migration project, or in the XML template files	Before starting the migration project, or in the Staging Tables	Before starting the migration project. Note that you can always adjust the selection of data by using the migration object modeler

SAP S/4HANA Migration Cockpit – Comparison of Migration Approaches

SAP S/4HANA 2020 onwards



Migrate data using Staging Tables

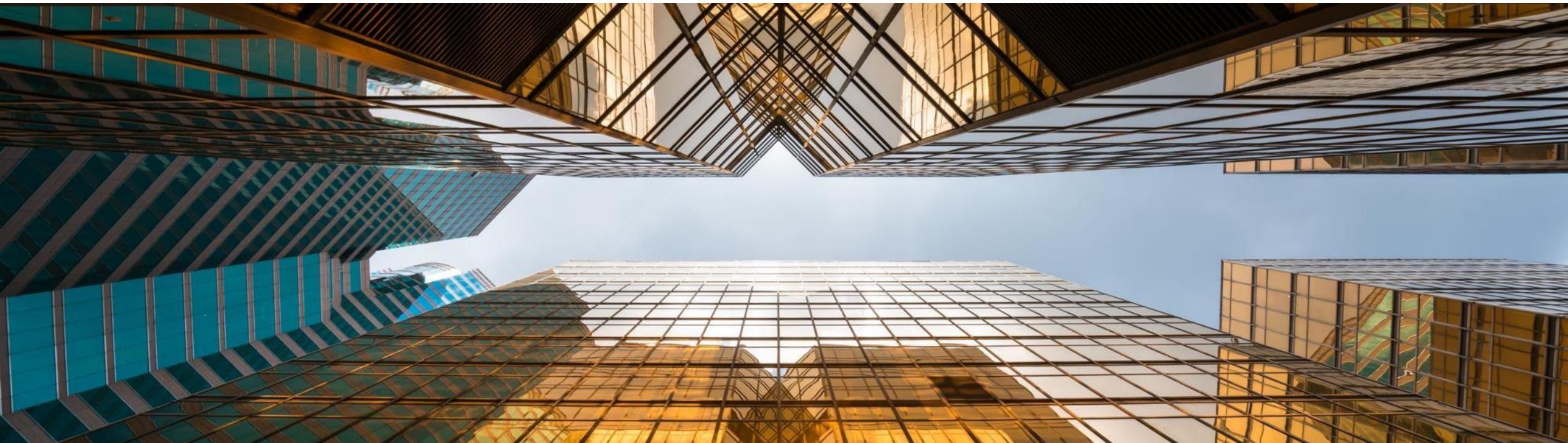


Migrate data directly from SAP system

	 <p>SAP S/4HANA Cloud</p>  <p>SAP S/4HANA Cloud, private edition</p>  <p>SAP S/4HANA</p>	 <p>SAP S/4HANA Cloud, private edition</p>  <p>SAP S/4HANA</p>
<p>Availability</p>	<p>Any source system (SAP or non-SAP)</p>	<p>ABAP-based SAP source systems</p>
<p>Source System</p>	<ul style="list-style-type: none"> XML template files filled by customers Staging Tables filled by customers (using for example SAP Data Services, SDI, ABAP, or any 3rd party ETL tool) 	<p>Data selected and extracted directly from SAP system</p>
<p>Data Provisioning</p>	<p>Before starting the migration project,</p> <ul style="list-style-type: none"> in the XML template files in the Staging Tables 	<p>Before starting the migration project.</p> <p>Note that you can always adjust the selection of data by using the migration object modeler</p>
<p>Data cleansing</p>		

SAP S/4HANA Migration Cockpit

Migration Objects



SAP S/4HANA Migration Cockpit

Preconfigured migration objects SAP S/4HANA

The screenshot shows the SAP Help Portal interface for 'Migration Objects for SAP S/4HANA'. The page title is 'Available Migration Objects ☆'. Below the title, there is a search bar and a table of migration objects. The table has columns for 'Migration Object Name', 'Business Object Type', 'Migration Approach', and 'Component'. The table is filtered to show objects with 'Migration Approach' set to 'Direct Transfer - ERP'. A 'CSV' button is highlighted with a yellow box and an arrow pointing to it from a callout box that says 'Download migration object list'. Another callout box says 'Filter for migration approach*' with an arrow pointing to the 'Migration Approach' column header. A third callout box says 'Documentation available' with an arrow pointing to the 'AFS - Article' link in the table. A fourth callout box says 'Select All Clear Filter' with an arrow pointing to the 'Migration Approach' column header. The table content is as follows:

Migration Object Name	Business Object Type	Migration Approach	Component
AFS - Article	Master data	Direct Transfer - ERP	PM
AFS - Configuration class for material grid	Master data	Direct Transfer - ERP	PM
AFS - Dimensional characteristic	Master data	Direct Transfer - ERP	PM



[Migration object list in SAP Help Portal \(SAP S/4HANA\)](#)

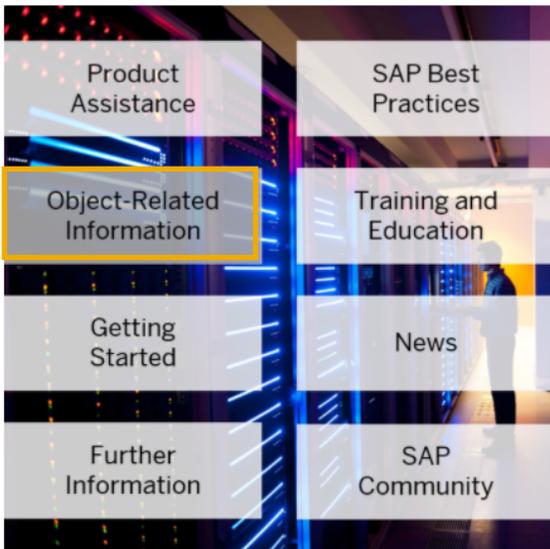
* Filter depending on selection SAP S/4HANA or SAP S/4HANA Cloud*

SAP S/4HANA Migration Cockpit

Check migration object changes in [release comparison](#) - available for File/Staging

Data Migration ☆

SAP enables data migration to SAP S/4HANA for customers coming from any legacy system. SAP S/4HANA customers can use various migration approaches built into SAP S/4HANA using the SAP S/4HANA Migration Cockpit together with a set of predefined data migration templates.



Object-Related Information

- [Migration Objects for SAP S/4HANA](#)

Find an extensive table listing all migration objects available in the SAP S/4HANA Migration Cockpit together with their respective migration object documentation.

- [SAP S/4HANA – Release Comparison of Migration Object Templates](#)

The purpose of this document is to explain the differences between migration object templates of various releases, with the help of migration object documentation.

- [Data Migration Template Samples](#) (for customers and partners)

These template samples help you in filling out the data migration templates for migration objects available in the SAP S/4HANA Migration Cockpit.

Note that the templates are created for, and tested in, SAP S/4HANA. When migrating migration objects into the SAP S/4HANA Cloud system they are built for. Although the templates are created for, and tested in, SAP S/4HANA, they are also available for File/Staging.

SAP Help Portal Data Migration with SAP S/4HANA Migration Cockpit

SAP S/4HANA – Release Comparison of Migration Object Templates

SHIP Production

This document Enter keywords or a product name

Advanced Search

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 - Change Status per Object
 - SAP S/4HANA 1809 – 1909
 - SAP S/4HANA 1709 SPS03 – 1809
 - Comparison of Migration Object Templates
 - Appendix

Change Overview ☆

Objects Added with SAP S/4HANA 2020

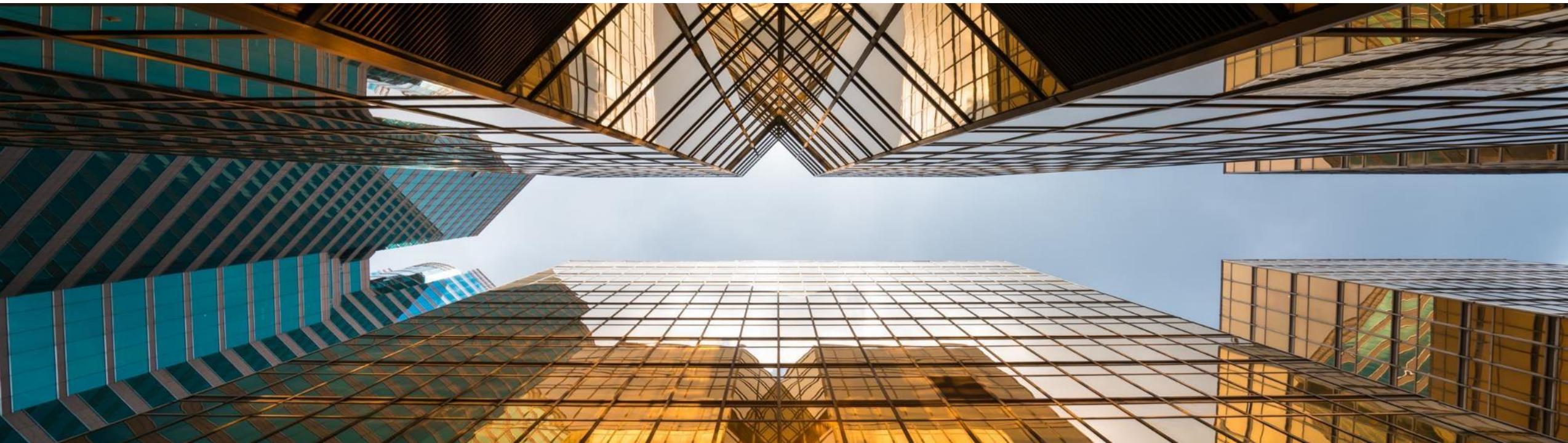
- CO - Business process
- CO - Statistical key figure
- DG - Assessment for packaged product (text-based)
- DG - Assessment for unpackaged product (content-based)
- DG - Assessment for unpackaged product (text-based)
- ECM - Change master
- EFD - Reinf report
- EHS - Location
- EHS - Location hierarchy
- FI - G/L account



[SAP S/4HANA - Release Comparison of Migration Object Templates](#)

SAP S/4HANA Migration Cockpit

Further Information



Data Migration Landing Page on [SAP S/4HANA](#) SAP Help Portal

SAP SAP Help Portal SAP S/4HANA

SAP S/4HANA 2020 Latest ▾

With SAP S/4HANA (SAP Business Suite 4 SAP HANA), SAP is providing a new product and a next generation of business applications – simple enterprise software for big data and designed to help you run simple in the digital economy.

This product ▾ Search in all documents related to this product 🔍

Discover What's New **Implement** Integrate Use Develop Learn and Get Certified | See all

Product Documentation

Provides you with a product scope description, and guidance how to install, upgrade, implement and run an SAP S/4HANA system

[Installation Guide](#) (PDF) [Upgrade Guide](#) (PDF) [Conversion Guide](#) (PDF)

Helps to install SAP S/4HANA Describes the upgrade process of software versions Supports the conversion from SAP ERP to SAP S/4HANA

[UI Technology Guide](#) (PDF) Gives all information on the UI

[Conversion & Simplification Item Catalog](#) Search and browse the Simplification Item Catalog

Data Migration

Enables data migration from any legacy system into SAP S/4HANA Cloud. Get an overview of reliable migration approaches built into SAP S/4HANA Cloud using the SAP S/4HANA Migration Cockpit together with a set of predefined data migration objects.

[Data Migration](#)

- Product Assistance
- SAP Best Practices
- Object-Related Information
- Training and Education
- Getting Started
- News
- Further Information
- SAP Community

SAP S/4HANA Migration Cockpit – Further [Training Material](#)

SAP enables data migration to SAP S/4HANA for customers coming from SAP ERP. SAP provides reliable migration approaches built into SAP S/4HANA using the SAP Migration Cockpit and SAP Migration Objects.

Product Assistance SAP Best Practices

Object-Related Information Training and Education

Getting Started News

- [Training Material](#) (for customers and partners only)
- [Video Library for Data Migration](#)
- [openSAP Course: Migrating Your Business Data to SAP S/4HANA – New Implementation Scenario](#) *

* openSAP Course based on 1909

Training Material ☆

Find the training material on the following topics:

- Overview
- Migrate Data Using Staging Tables
- Migrate Data Directly from SAP System (Direct Transfer)
- Migration Object Modeler - Files/Staging Tables
- Migration Object Modeler - Direct Transfer

SAP S/4HANA Migration Cockpit - In-App Help Now Available

Open the In-App Help from any screen in the migration cockpit

1. General Data

Here, you specify general information for your project. Note that it will not be possible to change the mass transfer ID or the database connection after you create the project.

Migration Approach: Migrate Data Using Staging Tables

Name: *

demo_project

Mass Transfer ID: *

M15

Database Connection

Local SAP S/4HANA

Remote SAP HANA

Database Connection

If you want the system to create the staging tables in the local ABAP schema of the SAP S/4HANA Cloud system, select the option **Local SAP S/4HANA Database Schema**. If you want the system to create the staging tables in a different SAP HANA schema, select the option **Remote SAP HANA Database Schema** and enter a valid database connection to the staging system or choose one from the search help list.

What's This App?

Database Connection

Specify a location for the staging tables.

Cancel

Navigate directly to the SAP Help Portal documentation

View additional information for certain fields

SAP S/4HANA Migration Cockpit Community

The screenshot shows the SAP Community homepage for the S/4HANA Migration Cockpit. At the top, there is a navigation bar with 'SAP | Community' and links for 'Topics', 'Answers', 'Blogs', 'Events', 'Programs', 'Resources', and 'What's New'. Below this is a search bar and a 'Home > Community > Topics' breadcrumb. A prominent yellow banner at the top reads: 'Mark your calendar for February 25, 2021 and click here to register'. Below the banner, a large image shows two men shaking hands in a modern office setting. The main heading is 'SAP S/4HANA Migration Cockpit'. A welcome message states: 'Welcome to SAP S/4HANA migration cockpit community where you can access the information on the tool in the form of blogs, frequently asked questions, and upcoming sessions. SAP S/4HANA migration cockpit facilitates the transfer of business data from a source system to SAP S/4HANA and SAP S/4HANA Cloud.' The page is divided into several sections: 'Featured Content' with four cards for 'SAP S/4HANA Migration Cockpit', 'Landing Pages', 'Feature Blog', and 'FAQ'; 'Browse' with a link to 'SAP S/4HANA Migration Cockpit FAQ'; 'Resources' with links for 'Data Migration to SAP S/4HANA Cloud with SAP S/4HANA Migration Cockpit' and 'Latest Recorded Sessions'.

One-stop shop – free access

- Latest news
- Blogs
- Q&A section

<https://community.sap.com/topics/s4hana-migration-cockpit>

Check for new announcements

The screenshot shows the SAP S/4HANA Cloud Customer Community page. The navigation bar is similar to the first screenshot. The main heading is 'SAP S/4HANA Cloud'. Below this, there is a search bar and a 'SAP S/4HANA Cloud 2102' filter. A welcome message reads: 'See how the SAP S/4HANA Cloud community can help you: Connect with SAP experts to exchange information about product solutions and best practices. Search for answers, ask questions, access resources, and more.' The page features a 'Featured Content' section with three cards: 'New Product Releases', 'Your Journey', and 'SAP S/4HANA Cloud 2102 Delta Training #9'. A search bar is located on the right side of the page.

Formerly known
SAP HANA Cloud Customer Community
was migrated into SAP Community platform.

Preconfigured SAP S/4HANA Sandbox System

Demo scripts for SAP S/4HANA migration cockpit available



Based on SAP S/4HANA 2020.



SAP S/4HANA trial system (external link):

<https://www.sap.com/cmp/oth/crm-s4hana/s4hana-on-premise-trial.html>

Product Information

Joerg Wolf 

April 23, 2019 6 minute read

SAP S/4HANA Fully-Activated Appliance: Demo Guides

18 Likes 28,223 Views 23 Comments

This blog gives information on the pre-configured sample demo scenarios in the SAP S/4HANA Fully-Activated Appliance. If you stumbled across this blog "by accident" and are interested in bringing up your own preconfigured SAP S/4HANA sandbox system within a few hours, please see [this overview for the SAP S/4HANA Fully-Activated Appliance](#).

Direct links to the most recent appliance releases in SAP CAL are:
[SAP S/4HANA 1909 FPS01](#) / [SAP S/4HANA 1909 SP00](#)

Demo scripts for SAP S/4HANA migration cockpit

- File approach (bank)
- File approach (material)
- LTMOM - file approach (cost center texts)
- Staging approach (G/L accounts)
- Direct Transfer approach (cost centers and activity types)
- LTMOM – Direct Transfer approach (cost center texts)
- Direct Transfer approach (material)
- Direct Transfer approach (vendor, CVI)



<https://blogs.sap.com/2020/04/27/sap-s-4hana-migration-cockpit-create-your-test-system/>

System access for externals

External CAL: <https://cal.sap.com/catalog#/solutions/52c66f34-9174-4692-b64d-4c34b955d9bc>

SAP S/4HANA Migration Cockpit

SAP Notes and KBAs

Tip:

Run Report [DMC_NOTE_ANALYZER](#)

[Check SAP Note 2596411](#)



Composite SAP Note for migration cockpit CA-LT-MC

[2780378](#)

[Composite SAP Note for SAP S/4HANA migration cockpit \(all releases\)](#)



SAP S/4HANA

Collective SAP Note for Direct Transfer CA-LT-MC

[2747566](#)

[SAP S/4HANA migration cockpit Composite Note for Transfer Data Directly from SAP System](#)



SAP S/4HANA

Collective SAP Notes for File/Staging CA-GTF-MIG

[2538700](#)

[Collective SAP Note and FAQ for SAP S/4HANA migration cockpit File/Staging \(SAP S/4HANA Cloud\)](#)

[2537549](#)

[Collective SAP Note and FAQ for SAP S/4HANA migration cockpit File/Staging \(SAP S/4HANA\)](#)



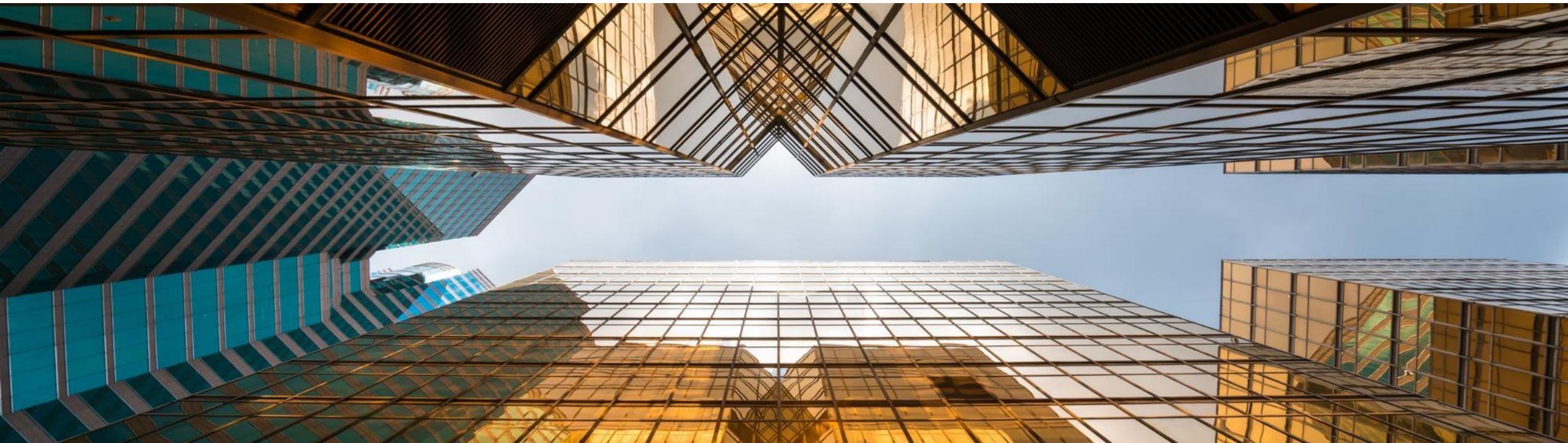
SAP S/4HANA Cloud



SAP S/4HANA

SAP S/4HANA Migration Cockpit

Key Takeaways



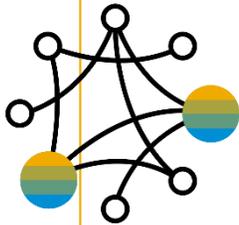
SAP S/4HANA Migration Cockpit Key Takeway



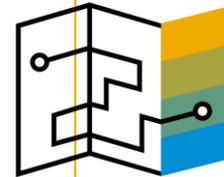
Included in the licenses for all SAP S/4HANA deployment options



Preconfigured SAP S/4HANA-specific migration content



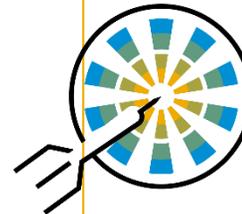
Automated mapping between source & target



Guidance and simulation for the migration process



Integrated into SAP Activate methodology

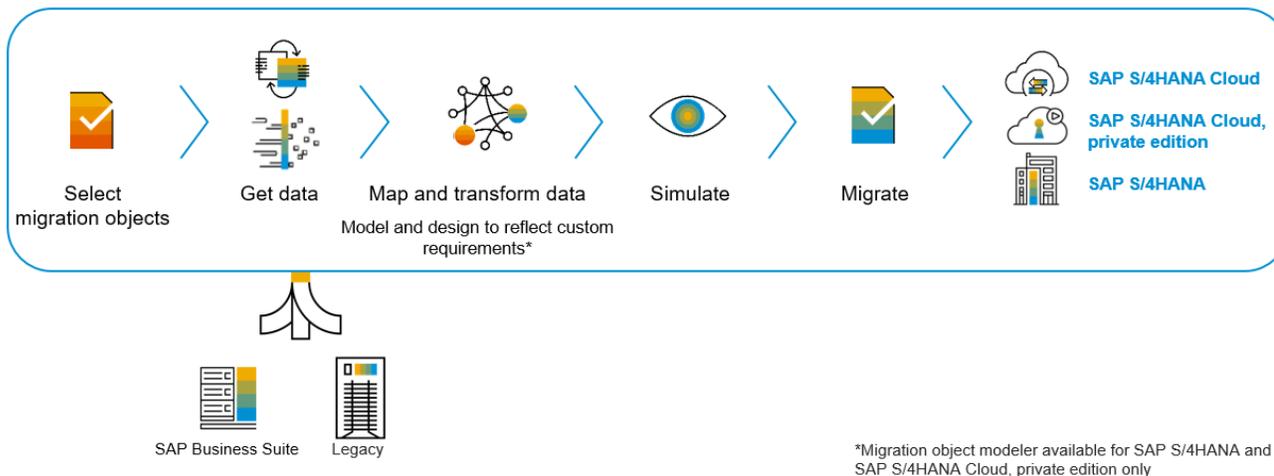


Lower migration time and costs

Key Takeaways

SAP S/4HANA migration cockpit – the next-generation data migration software

- Included in SAP S/4HANA and SAP S/4HANA Cloud license and shipment
- Made for migrating data from SAP and non-SAP sources into SAP S/4HANA and SAP S/4HANA Cloud
- Guided procedure takes users through the migration process: Easy and safe, no programming required
- Flexible for integration of custom business data including data transformations



Migration approaches

Data Transfer

-  Migrate data using Staging Tables
-  Migrate data directly from SAP system

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

- Preconfigured content and mapping
- Automated mapping between template and target structure
- Migration programs generated automatically

Customer-specific migration content can be flexibly included

- Integration of customer-built objects
- Customer-specific enhancements to SAP standard objects (for example: add new fields)

Thank you.

Standard slide deck SAP S/4HANA:	Migrate Your Data to SAP S/4HANA – SAP S/4HANA Migration Cockpit
Standard slide deck SAP S/4HANA Cloud:	SAP S/4HANA Migration Cockpit – SAP S/4HANA Cloud
Video:	Migrate Data using Staging Tables
Video:	Migrate Data Directly from SAP System
Data migration landing pages	http://help.sap.com/S4_OP_DM or http://help.sap.com/S4_CE_DM
Community topic page	https://community.sap.com/topics/s4hana-migration-cockpit/
Click through tutorials	SAP S/4HANA migration cockpit

SAP S/4HANA migration cockpit: sap_s4hana_migration_cockpit@sap.com

Find a comprehensive FAQ list in the SAP S/4HANA migration cockpit Community:

<https://www.sap.com/documents/2020/03/2c4c6691-8a7d-0010-87a3-c30de2ffd8ff.html>

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www.sap.com/contactsap

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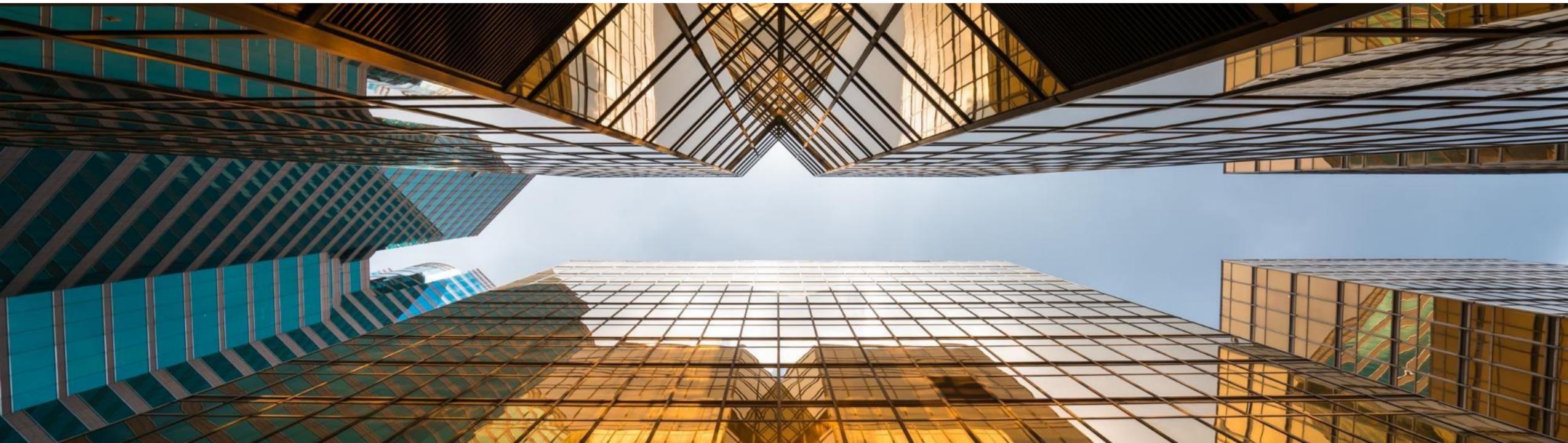
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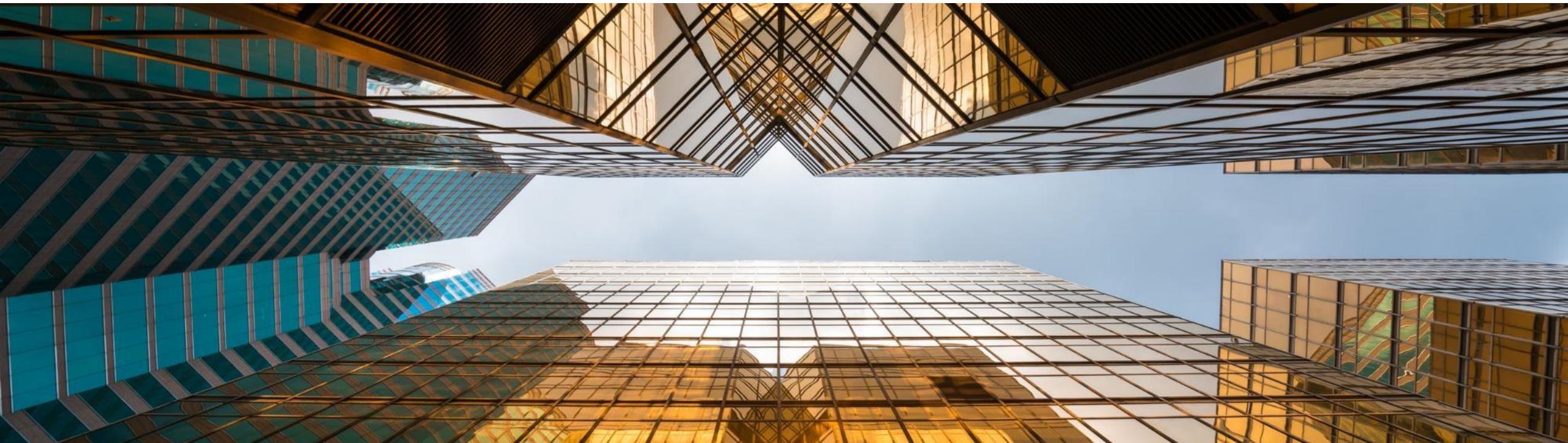
SAP S/4HANA Migration Cockpit

Appendix



SAP S/4HANA Migration Cockpit

Project Methodology and Detup



Key Questions to Understand Your Data Migration Requirements

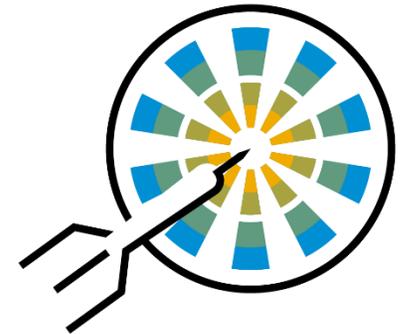
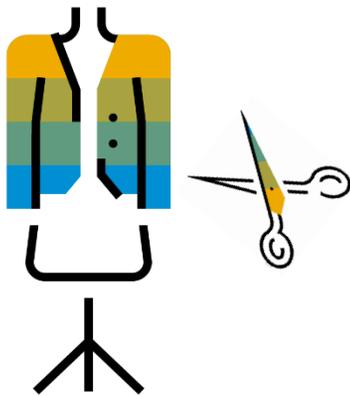
What deployment option is the target / receiver of the data?
SAP S/4HANA or SAP S/4HANA Cloud

Which data is needed from sources to operate S/4HANA the way you want?
Customizing? Master data? Open items? Balances?

What are the sources / sender systems of the data?
Number and type of source systems? Central master data management active?

Migrate data “as is” or transform on the fly?
Data transformations needed? Data quality improvement necessary?

Who needs to be involved?
Decisions to be taken? Major stakeholder?

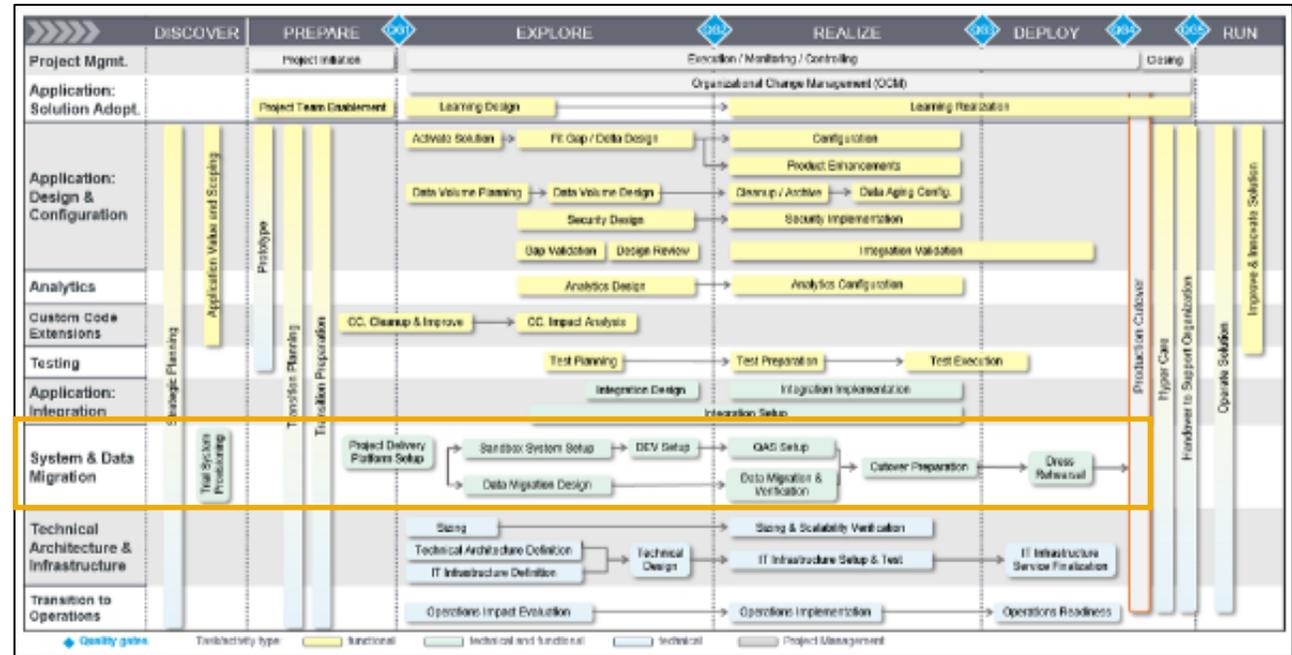


Data Migration in SAP Activate Roadmap



What needs to be done?
When do I have to take care?

Information about data migration is represented within the workstream system & data migration.



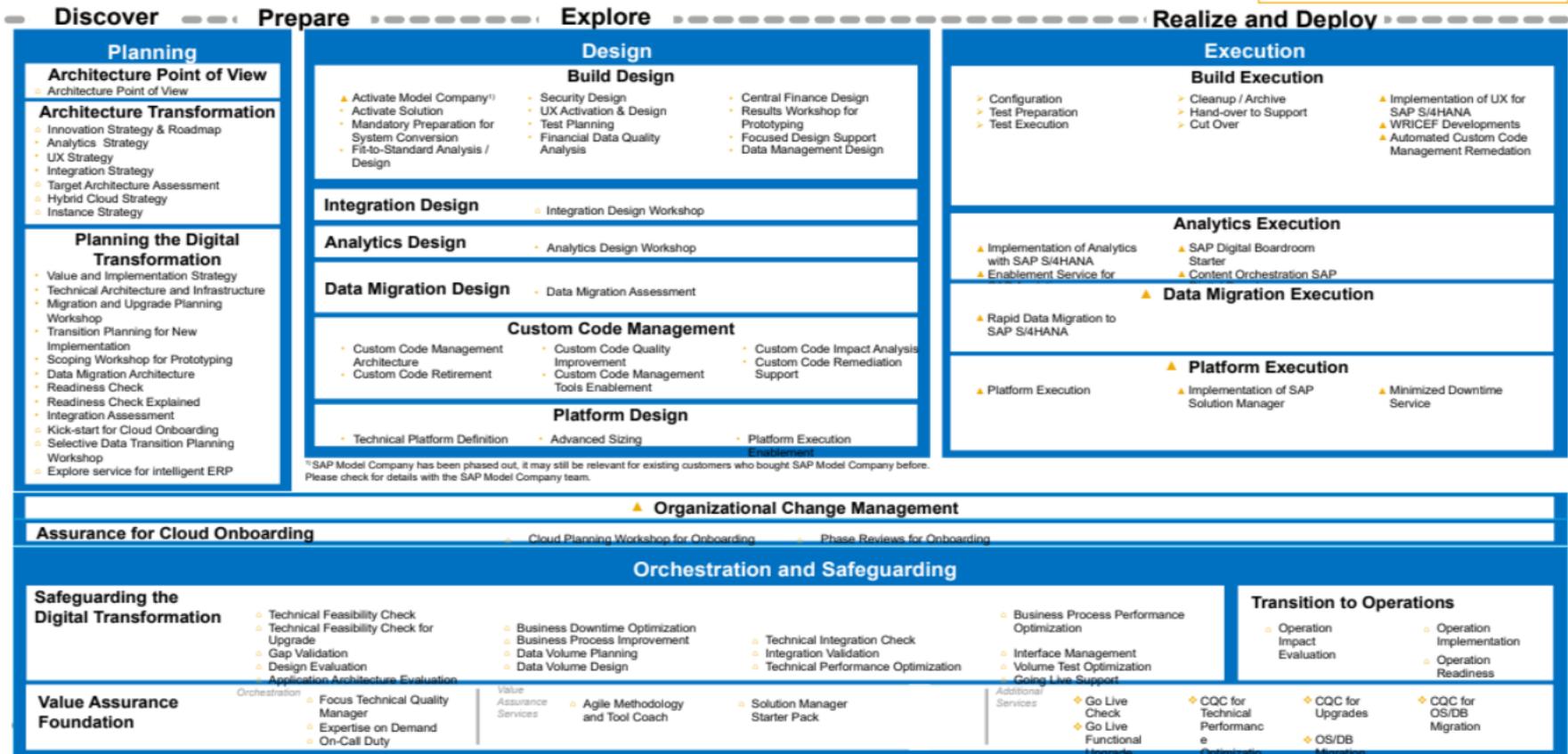
SAP Activate roadmap viewer

<https://go.support.sap.com/roadmapviewer/>

https://servicescatalog.cvd3eof-dbsservic1-p1-public.model-t.cc.commerce.ondemand.com/Portfolio-Hierarchy-2021/Cross-Solution/Premium-Engagements/Value-Assurance/Value-Assurance/Value-Assurance/-SAP-Value-Assurance/p/000000000009504790

Transition Services Portfolio 21Q1 Portfolio Overview

- ▲ Value Assurance & Advanced Deployment
- Value Assurance only
- ▶ Advanced Deployment only
- ▲ Referenced PS Service
- ◇ Support Service

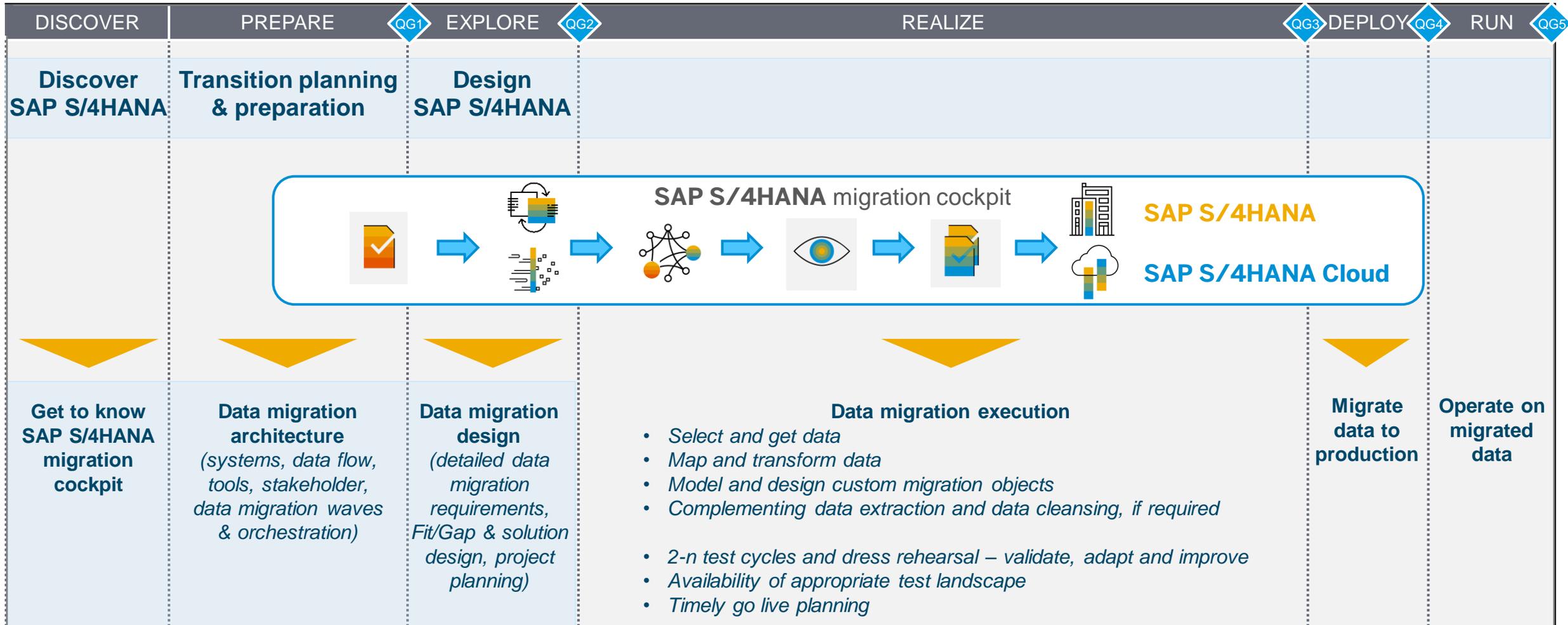


Contact Thomas Wolf

<https://jam4.sapjam.com/blogs/show/j7SBI2FKEmtrH34jR2eseg#ArticleB>

Additional SAP Offerings for Data Migration

Data migration activities mapped to SAP Activate



SAP Activate Roadmap Viewer: <https://go.support.sap.com/roadmapviewer/>

Business Data Migration to SAP S/4HANA

Key roles and tasks in customer's project team

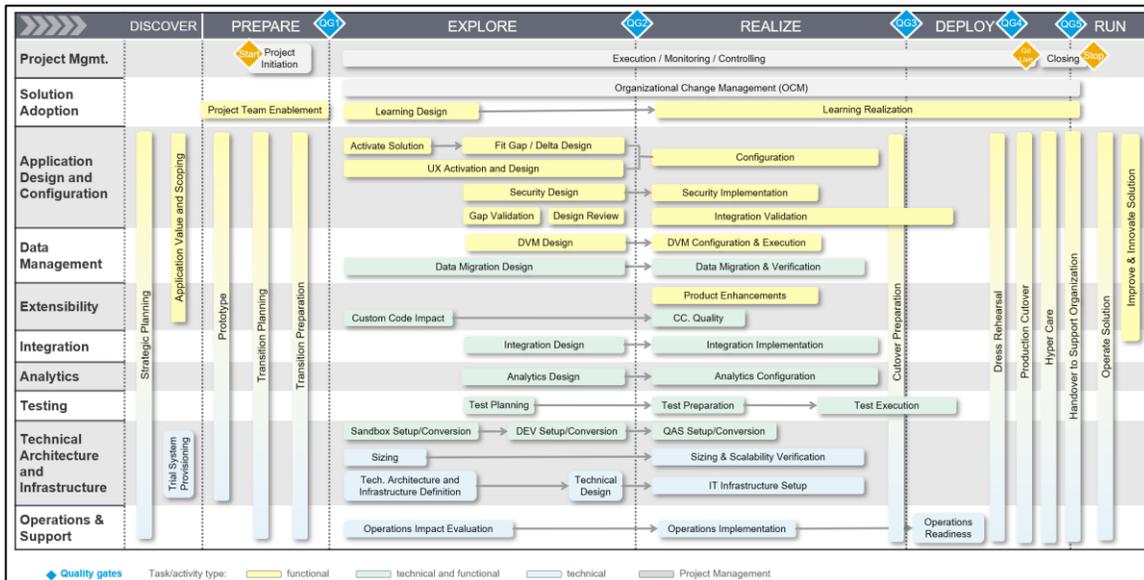
Project lead*	System administrator / Basis lead*	Data migration expert	Application / business contacts
<ul style="list-style-type: none">• Drives the data migration project at customer side• Responsible for all aspects affecting project setup and project planning• ...	<ul style="list-style-type: none">• Drives software download, software installation, installation of notes, system settings and more• Responsible to fulfill technical prerequisites such as provision of test landscape, RFC connections, system access & authorizations and more• ...	<ul style="list-style-type: none">• Uses the SAP S/4HANA migration cockpit and complementing tools (if any)• Responsible to execute data migration and track progress• ...	<ul style="list-style-type: none">• Act as key contacts for all application-related questions and represent business departments• Clarify business requirements, for example define selection criteria and mappings• Conduct functional testing and validate migration result• ...

* Roles may differ on Cloud context

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](#)**



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™, and SAP ActiveAttention services.

SAP Digital Business Services

Project Success

- SAP Advisory Services
- SAP Innovation Services
- SAP Advanced Deployment
- SAP Value Assurance
- SAP Innovative Business Solutions



Continuous Success

- Managed Services
- SAP Preferred Success
- SAP Enterprise Support
- Education Services

Premium Success

- The New SAP MaxAttention
- SAP ActiveAttention

For more information, please visit us online:

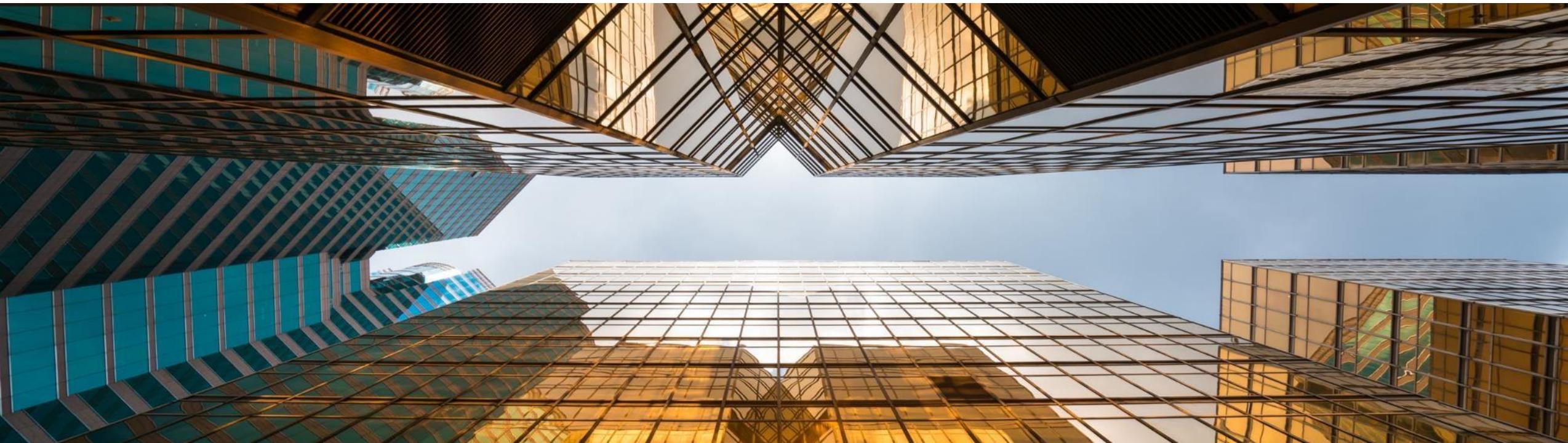
- www.sap-digital-business-services.com/offerings/sap-value-assurance
- www.sap.com/maxattention
- www.sap.com/activeattention

Check our webinars on Transition to SAP S/4HANA:

<https://webinars.sap.com/sap-user-groups-k4u/en/s4hana11>

Appendix

Miscellaneous Information



SAP S/4HANA Migration Cockpit

Product road map overview

Recent innovations

2020 – Q3/Q4

2021 – Product direction

2022 – Product vision

SAP S/4HANA, SAP S/4HANA Cloud

- Pool of migration objects significantly enriched
- Transfer data using files & staging tables
 - Enable NULL-able fields in staging tables
 - Improve scalability in data load parallelization

SAP S/4HANA

- New additional migration approach: Transfer Data Directly from SAP System
Supported migration scenarios:
 - SAP ERP to SAP S/4HANA
 - SAP AFS to SAP S/4HANA for fashion
 - SAP EWM to SAP S/4HANA
 - SAP CRM to SAP S/4HANA Service
- Basic version of Migration Object Modeler for migration approach direct transfer supports tailored selection of data, enhance existing objects and create own migration objects

S/4HANA Cloud, ES:

- Extend Data Migration Status App with audit functionality
- Situation handling for Data Migration Status App

SAP S/4HANA, SAP S/4HANA Cloud

- Harmonized Fiori UI for all migration approaches (File/Staging/Direct transfer)
- Introduction of one combined approach for File and Staging
- Additional new migration objects
- Direct Transfer:
 - Enable Transport Layer
 - Mass processing – possibility to process defined instances
- Improved mass handling of value mappings (download possibility)
- More flexible error reporting/handling
- Facilitated use by further in-app help capabilities

SAP S/4HANA

- Migration object modeler for direct transfer:
 - Copy migration objects
 - Source code rules possible
 - Skip rule for selection
 - Harmonized UI for all approaches (file/staging, direct transfer)
 - Improved usability

SAP S/4HANA, SAP S/4HANA Cloud

- Additional new migration objects
- Further parallelization options / performance improvements
- Enhanced mapping functionality

SAP S/4HANA

- Additional migration scenarios for Direct Transfer: APO-eSSP

SAP S/4HANA, SAP S/4HANA Cloud

- Additional new migration objects
- Additional new migration scenarios
- Enhanced content upgrade: Functionality to merge modified migration objects with updates on predefined migration objects
- Administration of own-created content
- Provide more granular authorization concept to support different roles
- Improved functionality to plan, track and document the data migration and to validate the migration result
- Direct Transfer for SAP S/4HANA Cloud

SAP AFS: SAP Apparel and Footwear
SAP EWM: SAP Extended Warehouse Management
APO-eSSP: APO extended Service Parts Planning

This is the current state of planning and may be changed by SAP at any time.

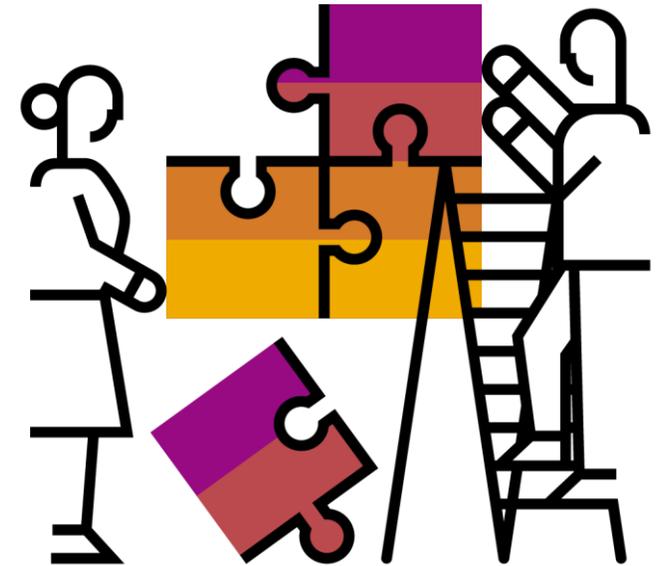
Additional SAP Offerings for Data Migration

Complementing data migration offerings in the SAP portfolio

For complementing requirements, SAP portfolio includes additional data migration offerings. For example

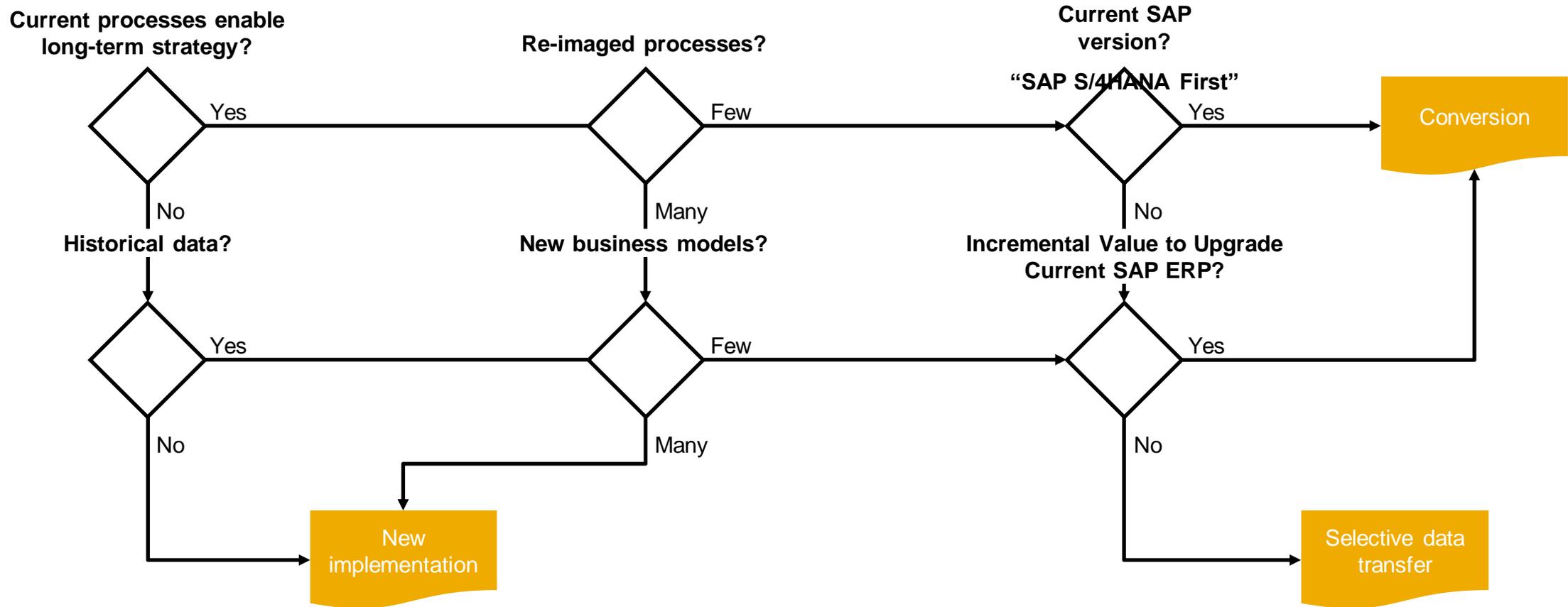
- **SAP Data Services** – Extract, transform, and load data, particularly for non-SAP sources and intense data quality improvements
- **SAP Advanced Data Migration by Syniti** for the orchestration of large data migration projects and a workflow-like tracking of activities

Unit 3 of this week introduces additional migration features for SAP S/4HANA Cloud



Decision Path to S/4HANA

Influencing factors



SAP Tools and Services

Recommended products



All SAP products

SAP Transformation Navigator

S/4HANA compatibility



SAP ERP & S/4HANA
SAP BW & BW/4HANA

SAP Readiness Check / SIC

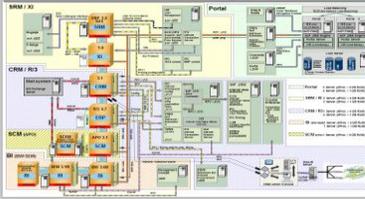
Improvement & innovation



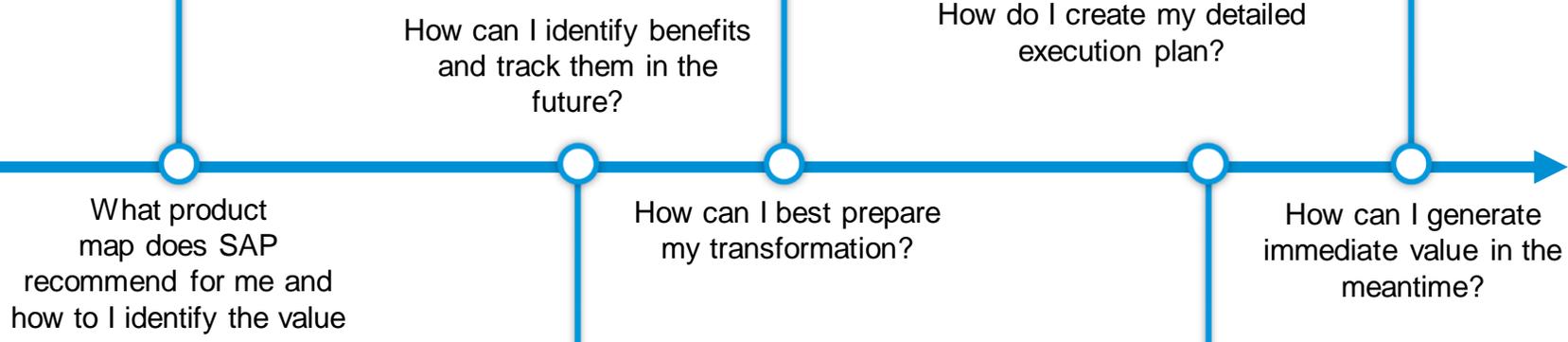
SAP ERP

Pathfinder **URL**

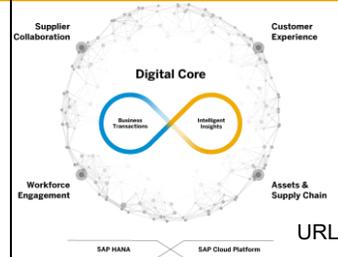
Today



Adoption Starter

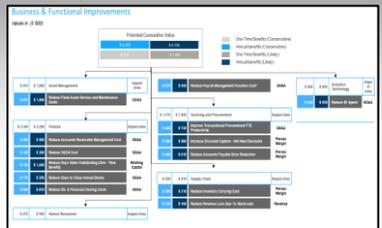


Tomorrow



SAP HANA **SAP Cloud Platform** **URL's**

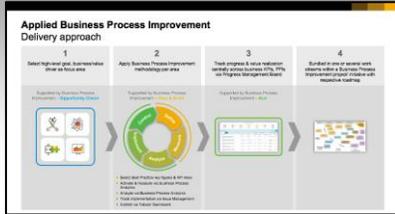
Business value



All SAP products

Quality value assessment

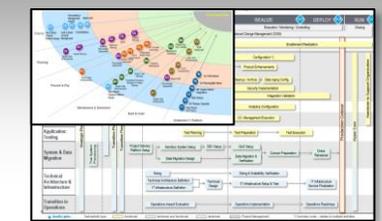
Business process improvement



SAP Business Suite | SAP S/4HANA

BSR report

Planning the digital transformation



All SAP products

SAP roadmaps – interactive
SAP product roadmaps

SAP methodology

SAP best practices

Innovation discovery

Facilitate Migration Projects with SAP S/4HANA Migration Cockpit



1. Tool of choice for migration to SAP S/4HANA

- Part of SAP S/4HANA and SAP S/4HANA Cloud (included in these licenses)
- Ready-to-use solution
- Support for customers with new implementations



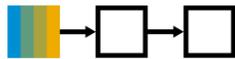
2. Preconfigured migration content specific to SAP S/4HANA

- Comprehensive set of preconfigured migration objects, such as customers, suppliers, and so on
- Automated mapping between source data and SAP S/4HANA target values



3. Integrated in SAP Activate methodology

- Proven methodology integrated in SAP Activate road map
- Best practices



4. Easy and safe migration

- Two migration approaches
- Step-by-step guidance through the migration process
- Preconfigured migration objects
- Data validation to ensure high-data quality and consistency



5. Flexible and extendable

- Migration object modeler for custom requirements
- Ability to extend existing SAP migration objects
- Integration of custom objects



6. Outlook

- Improved functionality to plan, track and document the data migration
- Provide additional migration content
- Enhanced content upgrade - merge modified migration objects with updates on predefined migration objects
- Direct Transfer for SAP S/4HANA Cloud

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