



SAP S/4HANA Migration Cockpit

For SAP S/4HANA 2020

December 2020

PUBLIC

SAP S/4HANA Migration Cockpit

SAP S/4HANA Cloud (ES), 2011

December 2020

THE BEST RUN 

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Agenda



Introduction – your way to SAP S/4HANA

Overview - functions and process

Different migration approaches

File/Staging

Direct Transfer

Summary

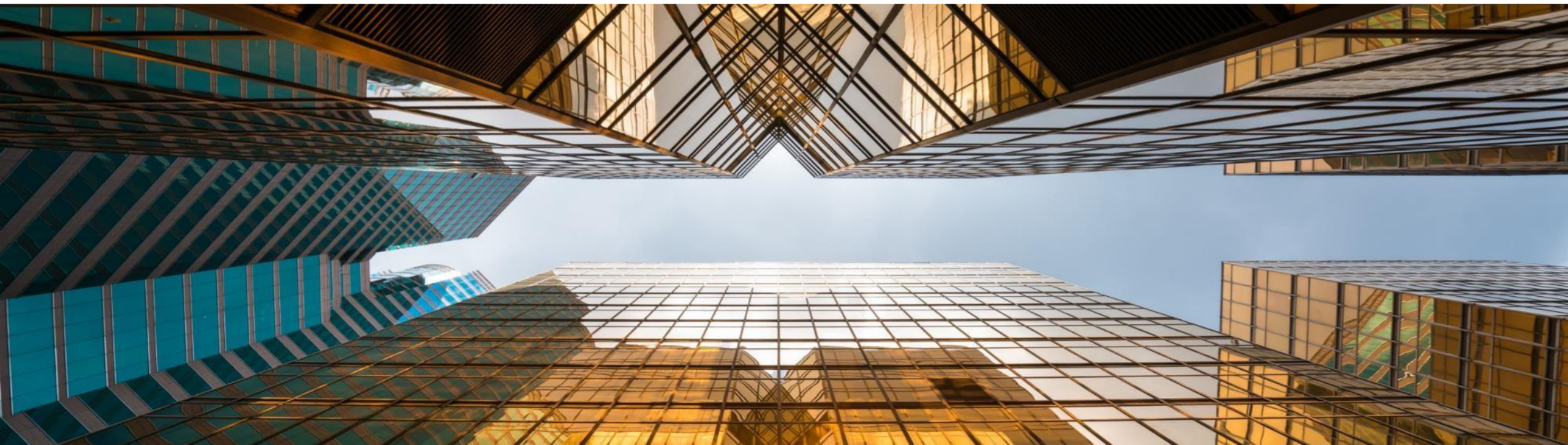
Migration objects

Further information

Key takeaways

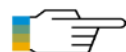
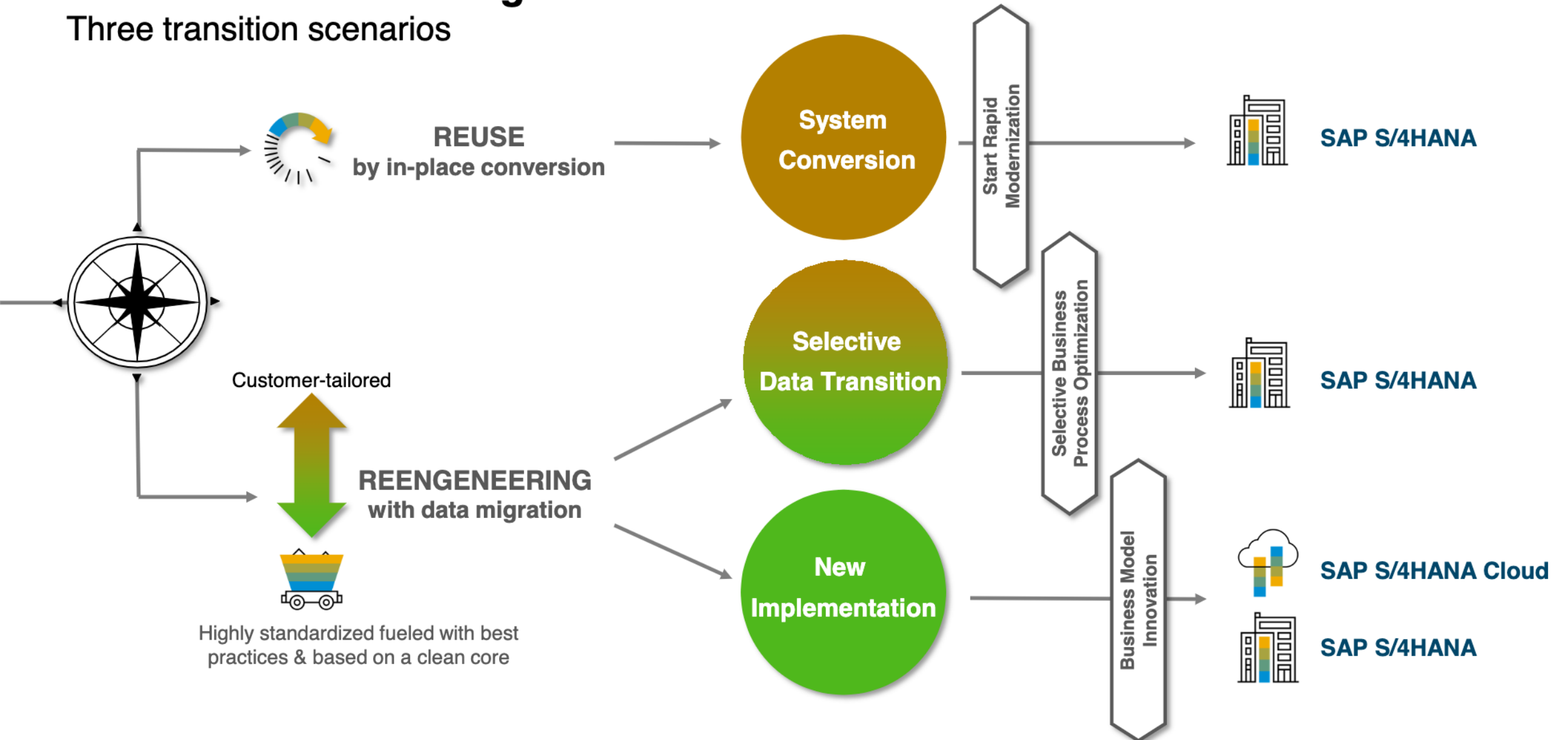
Appendix

Introduction – **your way to SAP S/4HANA**

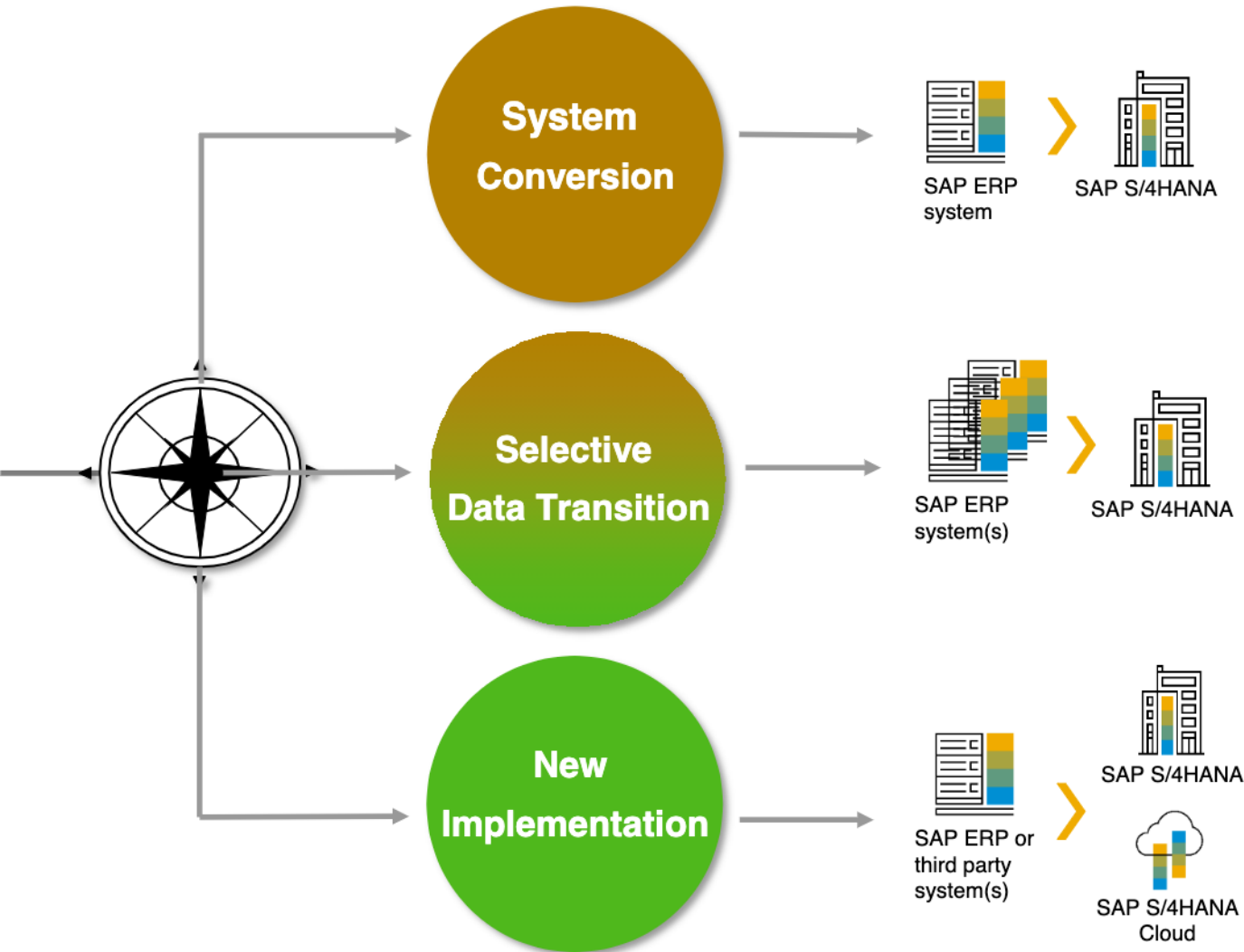


Introduction to data migration

Three transition scenarios



Your way to SAP S/4HANA (1/2)



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

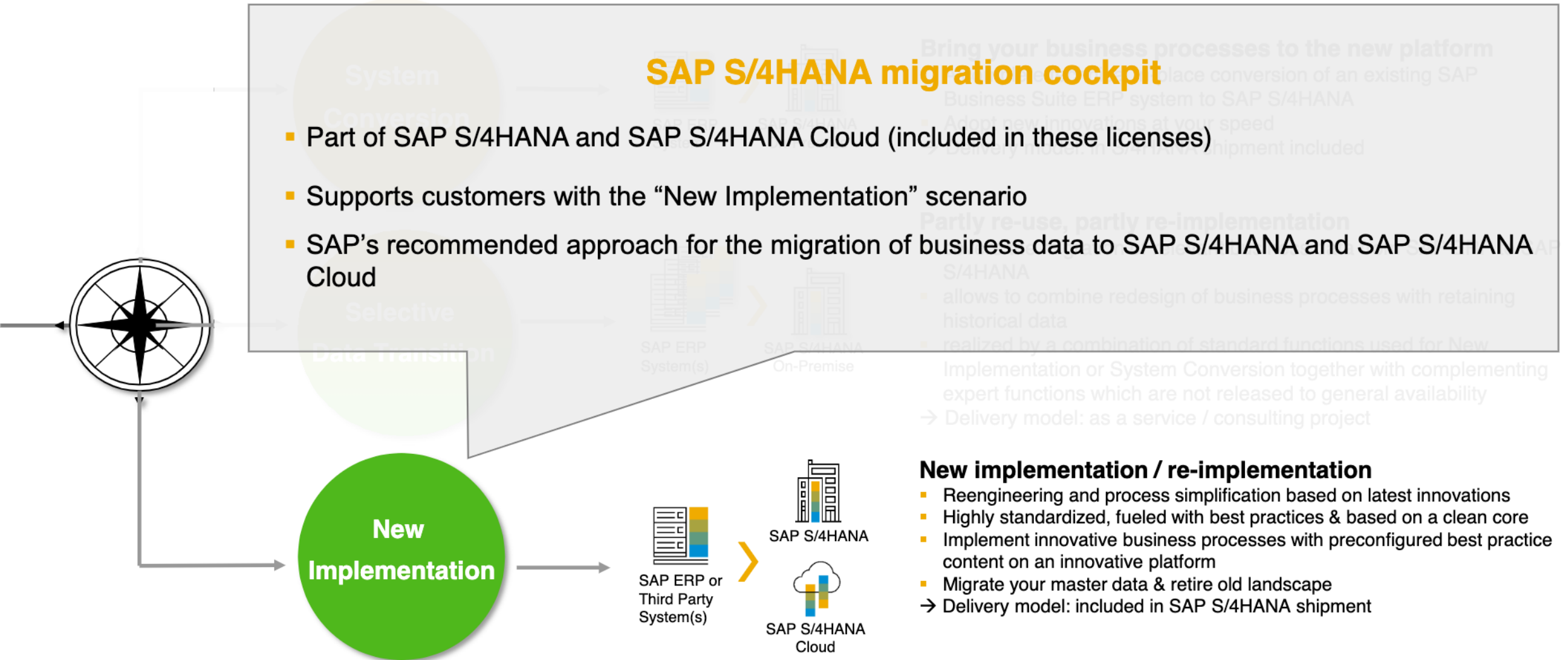
Partly re-use, partly re-implementation

- 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

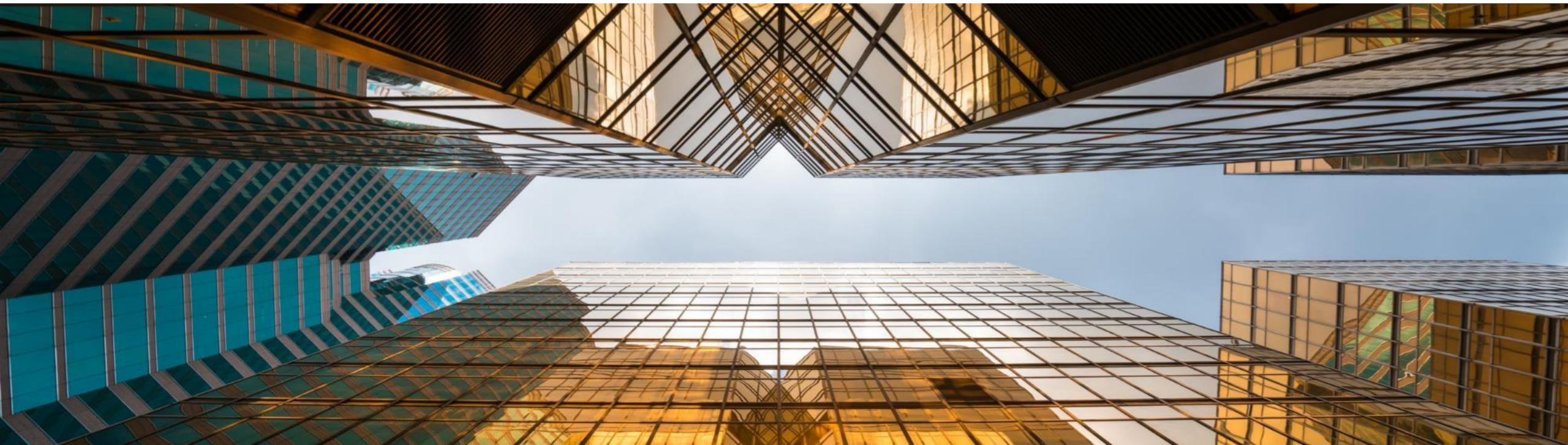
- Reengineering and process simplification based on latest innovations
- Highly standardized, fueled with best practices & based on a clean core
- Implement innovative business processes with preconfigured best practice content on an innovative platform
- Migrate your master data & retire old landscape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

Your way to SAP S/4HANA (2/2)



SAP S/4HANA migration cockpit

Overview – functions & features



Introduction to Data Migration

What is data migration?

“**Data migration** is the process of selecting, preparing, extracting, and transforming **data** and permanently transferring it from one computer storage system to another.

Additionally, the **validation** of migrated data for completeness and the decommissioning of legacy data storage are considered part of the entire data migration **process**.

Data migration is a **key consideration** for any system implementation, upgrade, or consolidation, and it is typically performed in such a way as to be as **automated** as possible, freeing up human resources from **tedious tasks**.”

Wikipedia, November 2019

But the **goal** of a data migration project is not simply to move and transform data from one system/format to another; it is to ensure that the moved data is of high quality, is fit-for-use, and supports the underlying business processes and operational goals of the organization!

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
- Automated cross-object value mapping
- Initial load

Migration object modeler for custom requirements

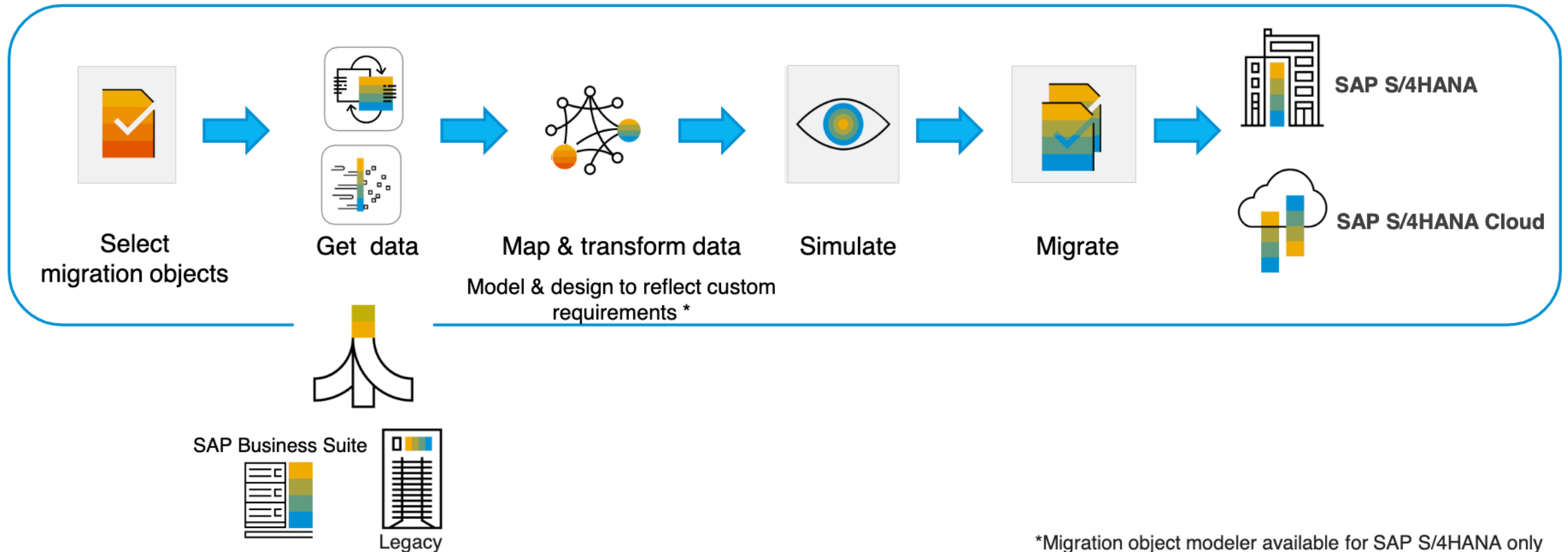
Powerful and easy-to-use state-of-the-art modeling environment (SAP S/4HANA only)



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



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 open transactional data** (open item and balances)
- 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
- Object do not cover historical data
- Available for SAP S/4HANA and SAP S/4HANA Cloud, included in licenses

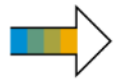


SAP S/4HANA migration cockpit

In Detail: Migration object modeler



Flexible and extendable

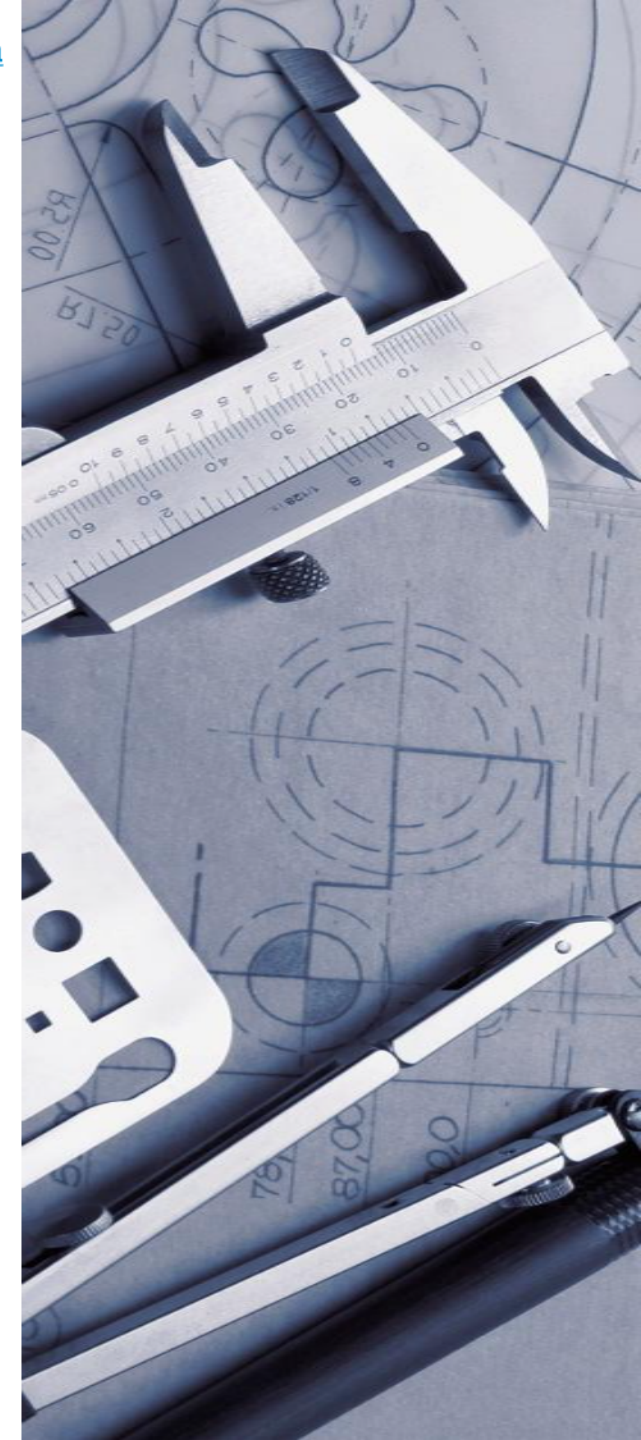


Easily integrate custom objects and enhancements into the migration project

- 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

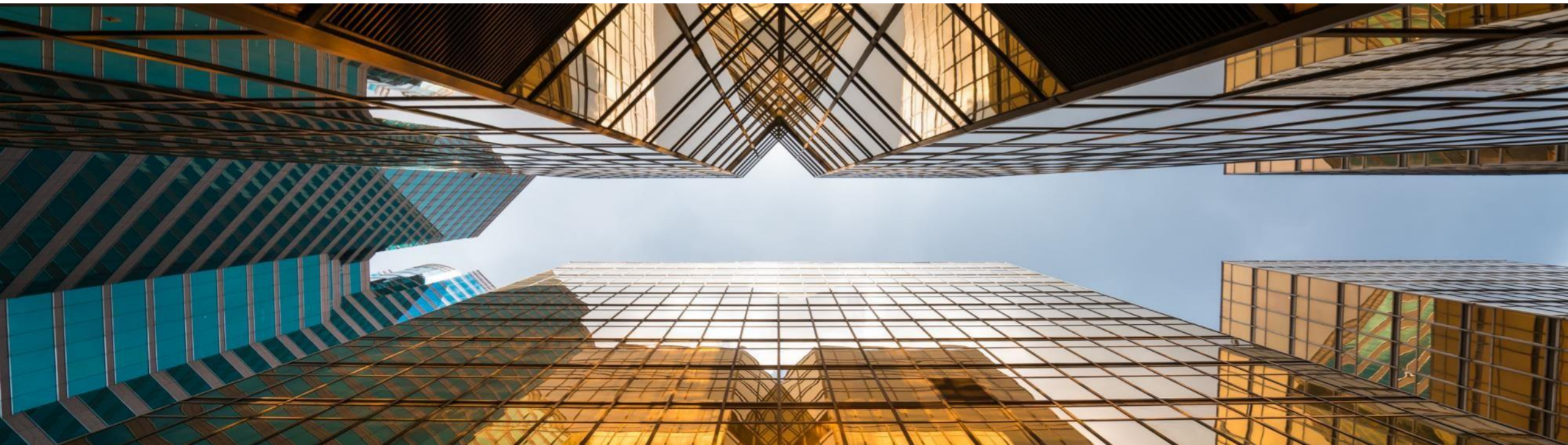


**Transaction:
LTMOM**



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 via RFC connection
- Supports data migration scenarios from other applications
e.g. 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
- 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



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

**New in SAP
S/4HANA 2020**

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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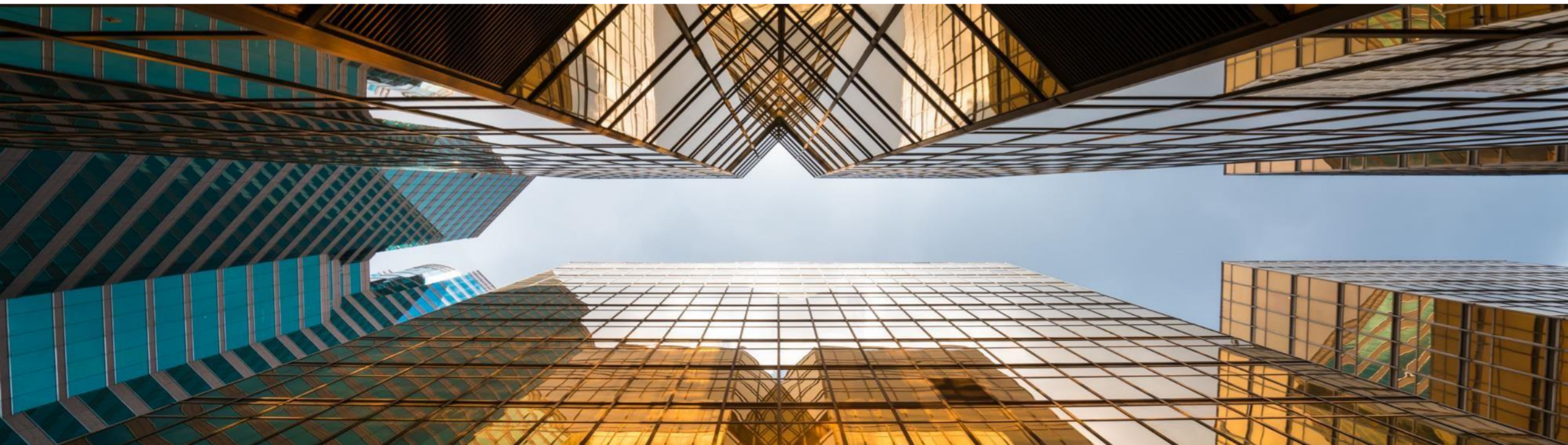


Migrate data directly from SAP system

- Transfer data from SAP ERP source system to target SAP S/4HANA system
- Access source system via RFC connection
- Supports data migration scenarios from other applications
 - e.g. 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

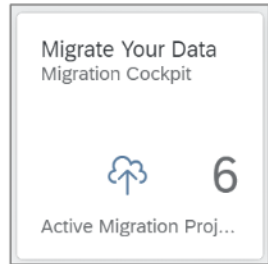
Migrate data using Staging Tables



SAP S/4HANA migration cockpit – migrate data using Staging Tables



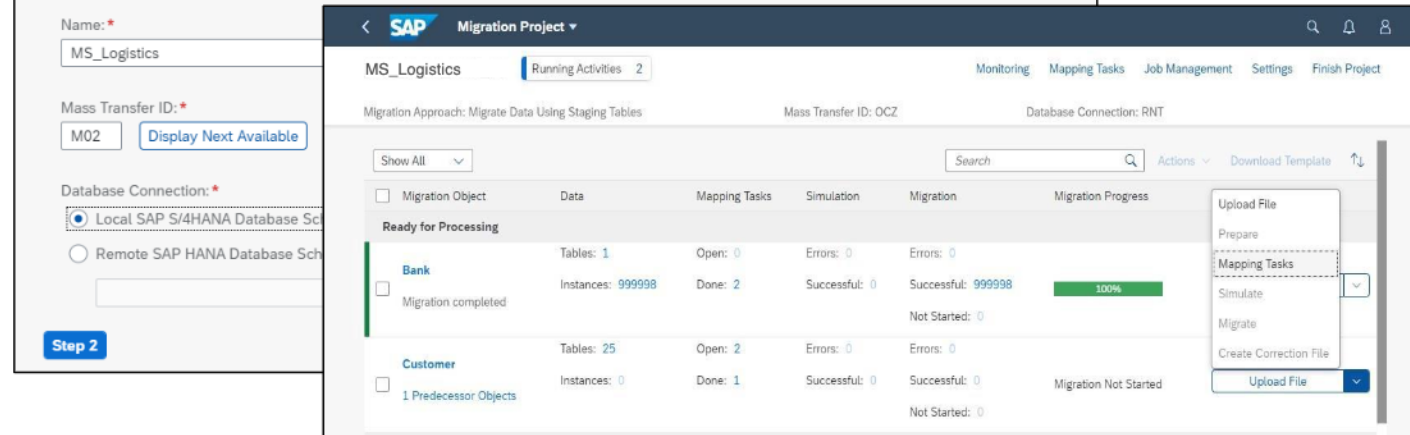
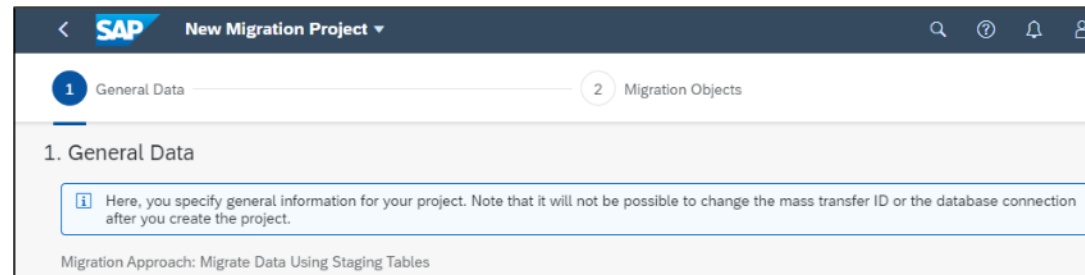
Fiori App Migrate Your Data



Excel XML template files
or other tools of choice

SAP S/4HANA 2020:

Process & content



+115

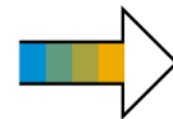


Migration objects

Data load



SAP S/4HANA Cloud*



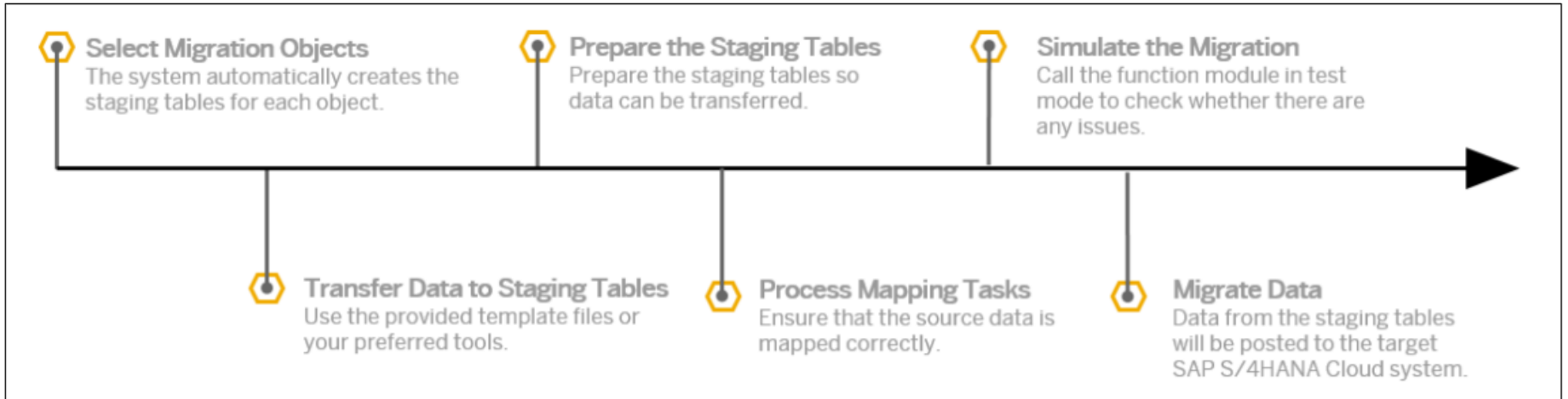
SAP S/4HANA

*Current state of planning:
Additionally available in SAP S/4HANA Cloud (EX), 2102

SAP S/4HANA migration cockpit – migrate data using Staging Tables



Process flow



SAP S/4HANA migration cockpit – migrate data using Staging Tables

Available apps including deprecation information



Recommendation

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

- New Fiori app available from CE2008 and OP2020 onwards
- Projects created via this app can only be accessed from here (no „old“ ones)

- “old” app (WebDynpro)
- Project created via this app can only be accessed from here
- Deprecation phase starts 2011
- CE2105 – deprecated
- existing projects will be still available in display mode

- Project created via 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

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 are filters for Name, Status, Created By, Migration Approach, and Connection to Source System. Below the filters, a table lists migration projects. A callout box highlights two migration options: 'Migrate data directly from SAP system' and 'Migrate data using Staging Tables'. A dropdown menu is also visible, showing 'Migrate Data Directly from SAP System' and 'Migrate Data Using Staging Tables'.

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

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

Name	Status	Created At	Migration Approach / Scenario	Database Connection	Migration Objects
Test_Lisa			Migrate Data Using Staging Tables	Database Connection Local	2
Maintenance_Notification	In Process	28.08.2020, 08:37:28	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1
Variant_Table_Structure	In Process	28.08.2020, 08:12:47	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1
lat_test	Not Started	28.08.2020, 07:22:41	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	6
Demo_DT_2020	In Process	27.08.2020, 17:42:14	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	2
Material_Consumption	In Process	27.08.2020, 11:37:55	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1
Equipment	In Process	27.08.2020, 08:23:22	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1
Material_Commodity	In Process	27.08.2020, 08:18:50	Migrate Data Directly from SAP System Scenario: SAP ERP to SAP S/4HANA	RFC Connection	1



SAP S/4HANA migration cockpit – migrate data using Staging Tables

Create new project II

Specify details for your migration project.

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.

Select migration objects - click on button 
To continue with next step click on "Review" 

Available Migration Objects

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

Selected Migration Object

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

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 page, 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 shows the SAP S/4HANA Migration Project interface. At the top, there is a navigation bar with the SAP logo and 'Migration Project'. Below this, a breadcrumb trail shows 'New Migration Project' and 'Running Activiti... 0'. A secondary navigation bar contains buttons for 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. The main content area displays a table of migration objects. The table has columns for 'Migration Object', 'Data', 'Tables', 'Instances', 'Open', 'Done', 'Errors', 'Successful', and 'Not Started'. The first row is 'Migration Object' with 16 tables. The second row is 'Product' with 0 instances. The third row is 'Product - extend existing record by new org levels' with 16 tables and 0 instances, and it is checked. The fourth row is 'Product consumption' with 3 tables, 0 instances, 0 open, 0 done, 0 errors, 0 successful, and 0 not started. A callout box with a yellow border is overlaid on the table, containing the text 'Buttons for quick access:' followed by a bulleted list: '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 e.g. add new migration objects', and 'Finish project'. Below the list, it says 'See more details in application help.'

Migration Object	Data	Tables	Instances	Open	Done	Errors	Successful	Not Started
<input type="checkbox"/> Migration Object	Data	Tables: 16	Instances: 0	0	0	0	0	0
<input type="checkbox"/> Product		Tables: 16	Instances: 0	0	0	0	0	0
<input checked="" type="checkbox"/> Product - extend existing record by new org levels		Tables: 16	Instances: 0	0	0	0	0	0
<input type="checkbox"/> Product consumption		Tables: 3	Instances: 0	Open: 0	Done: 0	Errors: 0	Successful: 0	Not Started: 0

SAP S/4HANA migration cockpit –migrate data using Staging Tables



Trigger actions via 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, it shows 'New Migration Project' with a 'Running Activiti...' indicator and '0' objects. The migration approach is 'Migrate Data Using Staging Tables' with a 'Mass Transfer ID: OLU' and a 'Database Connection: Local'. The main table lists migration objects with columns for Data, Mapping Tasks, Simulation, Migration, Migration Progress, and Action. A dropdown menu is open for the 'Product' object, showing options like 'Upload File', 'Prepare', 'Mapping Tasks', 'Simulate', 'Migrate', and 'Create Correction File'. A text box highlights that the system proposes the next action to be performed 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			Not Started: 0		
<input type="checkbox"/> Product consumption 1 Predecessor Objects	Tables: 3	Open: 0	Errors: 0	Errors: 0	Migration Not Started	Upload File
	Instances: 0	Done: 0	Successful: 0	Successful: 0		Not Started: 0



SAP S/4HANA migration cockpit – migrate data using Staging Tables

Migration project screen – object documentation

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

The screenshot shows the SAP Migration Project cockpit interface. The top navigation bar includes 'SAP Migration Project' and various tabs like 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. The main content area displays a table of migration objects. One object, 'Product - extend existing record by new org levels', is selected and highlighted. A callout box points to the 'Documentation' tab in the object's detail view, which contains a link labeled 'here'.

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	<input type="button" value="Upload File"/>
<input checked="" type="checkbox"/> Product - extend existing record by new org levels 1 Predecessor Objects						

Product - extend existing record by new org levels
New Migration Project
Status: Ready for Processing

Documentation Views Table Structure History Dependencies Technical Information

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

To display the documentation for a migration object select the link “here”.
This will directly forward you to the migration object documentation on help.sap.com (Application Help).



SAP S/4HANA migration cockpit – migrate data using Staging Tables

Download XML templates for migration objects

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

The screenshot displays the SAP Migration Project cockpit interface. The main area shows a list of migration objects with columns for 'Instances', 'Done', 'Successful', and 'Migration Not Started'. A yellow box highlights the 'Product' object, and another yellow box highlights the 'Download Template' button in the 'Actions' column. A text box with a yellow border contains the text: "You can download the template for several migration objects by selecting them and then clicking on 'Download Template'". A yellow arrow points from the text box to the 'Download Template' button. Below the cockpit, a Windows File Explorer window is open, showing the 'Downloads' folder. The file list includes 'EN_Product - extend existing record by new org levels.xml' and 'EN_Product.xml'.

Migration Object	Instances	Done	Successful	Migration Not Started
Product	0	0	0	Migration Not Started
Product - extend existing record by new org levels	0	0	0	Migration Not Started
1 Predecessor Objects	0	0	0	Migration Not Started
Product consumption	0	0	0	Migration Not Started
1 Predecessor Objects	0	0	0	Migration Not Started



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.

The screenshot shows an Excel spreadsheet titled "EN_Product - extend existing record by new org levels.xml". The spreadsheet is divided into two main sections: "Key" and "Basic Data (no change of existing values possible)".

Key		Basic Data (no change of existing values possible)					
Product Number*	Run ID*	Product Group	Division	Batch Management Required Ind.	General Item Category Group	Cross-Plant Product Status	Valid-From Date
Key uniquely identifying the product. Type: Text Length: 80	Type: Text Length: 10	Key that you use to group together several products or services with the same attributes, and to assign them to a particular product group. Type: Text Length: 80	A way of grouping products, or services. The system uses divisions to determine the sales areas and the business areas for a product, or service. Please maintain the division for all sales relevant products. Type: Text Length: 80	This is an indicator field. If the criterion is met, enter X. If not, leave the field empty. Specifies whether the product is managed in batches ('X') or not (<blank>). Type: Text Length: 1	Products grouping that helps the system to determine item categories during sales document processing. Type: Text Length: 80	The product status determines how a product is handled in different applications and in business operations (for example, purchasing, products planning, usage in bills of material ..). If a product has a product status, the system will issue either a warning or an error message (depending on which status you have chosen) if the product is used. Note: The cross-plant product status restricts the usability of the product for all plants. Please	Date from which the cross-plant product status is valid. Type: Date

A yellow callout box with the text "Check Introduction worksheet to get further details on how to fill the template." is positioned over the bottom right of the spreadsheet. The bottom navigation bar shows tabs for "Introduction", "Field List", "Basic Data", "Additional Descriptions", and "Alternative Units of Measur ...". The "Introduction" tab is highlighted with a yellow box.

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](https://www.sap.com/help/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

Field List for Migration Object: Bank						
Version S4CORE 104 - 16.08.2019 © Copyright SAP SE. All rights reserved.						
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.	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
Type: Text Length: 80				

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Viewing migration object instances



The migration cockpit provides details on the records for each migration object instance.

The screenshot displays the SAP Migration Cockpit interface. At the top, it shows 'New Migration Project' with a 'Running Activities' indicator. The migration approach is 'Migrate Data Using Staging Tables' and the Mass Transfer ID is 'OLU'. The database connection is 'Local'. A search bar and 'Show All' dropdown are visible. The main table lists migration objects with columns for 'Migration Object', 'Data', 'Mapping Tasks', and 'Action'. The 'Product' object is selected, showing 16 tables and 5 instances. A callout box points to the '5' instances count, stating: 'By clicking on the migration object instances you can view the records for each migration object instance'. Below the main table, a detailed view for 'Product (5)' is shown, including search filters and a table of instances.

Migration Object	Data	Mapping Tasks	Action
<input type="checkbox"/> Product	Tables: 16 Instances: 5	Open: 3 Done: 0	Mapping Tasks
<input type="checkbox"/> Product - extend existing record by new org levels	Tables: 16 Instances: 0	Open: 1 Done: 0	Upload File
<input type="checkbox"/>		Successful: 0 Errors: 0	Migration Not Started
<input type="checkbox"/>		Successful: 0 Errors: 0	Migration Not Started
<input type="checkbox"/>		Successful: 0 Errors: 0	Migration Not Started

Product Number	Product Type	Product Group	Industry Sector	Description	Additional Fields	Source	Action	Status
<input type="checkbox"/> Test_001	Trading goods (HAWA)	Trading Materials(L001)		Test Product 001	Display All	EN_Product.xml(20200828075042)	None	Initial
<input type="checkbox"/> Test_002	Semifinished Products (HALB)	Semi-finished Goods(L003)		Test Product 002	Display All	EN_Product.xml(20200828075042)	None	Initial
<input type="checkbox"/> Test_003	Semifinished Products (HALB)	Semi-finished Goods(L003)		Test Product 003	Display All	EN_Product.xml(20200828075042)	None	Initial
<input type="checkbox"/> Test_004	Raw materials (ROH)	Raw Materials (L002)		Test Product 004	Display All	EN_Product.xml(20200828075042)	None	Initial
<input type="checkbox"/> Test_005	Finished Products (FERT)	Finished Goods(L004)		Test Product 005	Display All	EN_Product.xml(20200828075042)	None	Initial



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 shows the SAP Mapping Tasks interface. On the left, a list of mapping tasks is displayed, including 'Fixed value for Controlling Area', 'Product internal or external Numbering', and 'Use Product ID for Integration with external Systems'. The 'Fixed value for Controlling Area' task is selected, showing its details: Status: To be confirmed, Type: Fixed Value, Used in: Migration Objects. The 'Values' tab is active, showing a list of values with a search bar and a 'Confirm' button. A callout box explains that you can specify value mapping and transform values from the source system to the target system. Another callout box explains that search help for target values provides existing values in the SAP S/4HANA target system. A third callout box points to the search help icon in the 'Values' list, which opens a search help dialog showing a list of target values and their descriptions.

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

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

Target Value	Description
0001	Kostenrechnungskreis 0001
0003	SAP US (s-hw)
0008	Kostenrechnungskreis 0001
0009	Kostenrechnungskreis 0001
000K	Kostenrechnungskreis 0001
0MB1	IS-B Musterbank Deutschl.
0MB2	test
1000	CO Europe
3333	Controlling Area 3333
ABE1	ABEA Consulting
ABE2	ABEA Consulting
ABE3	ABEA Consulting
ABE4	Kostenrechnungskreis JP01

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.

The screenshot shows the SAP Mapping Tasks interface. At the top, there are tabs for 'Monitoring', 'Download Mapping Templates', and 'Upload Values'. The 'Download Mapping Templates' tab is highlighted. Below the tabs, there are statistics: '3 Mapping Tasks', '3 To be Confirmed', and '0 Confirmed'. A text box explains: '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”.' Below this, there is a table of mapping tasks with columns for 'Mapping Task', 'Status', and 'Control Parameter'. The 'Fixed value for Controlling Area' task is selected. A 'Select Mapping Tasks' dialog box is open, showing a list of tasks with checkboxes. The 'Download' button is highlighted. A file explorer window shows the downloaded XML files in the 'Downloads' folder.

Mapping Task	Status	Control Parameter
<input type="checkbox"/> Mapping Task		
<input checked="" type="checkbox"/> Fixed value for Controlling Area	To be confirmed	
<input type="checkbox"/> Product internal or external Numbering		
<input type="checkbox"/> Use Product ID for Integration with external Systems		

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 – migrate data using Staging Tables

Instance based messaging

On the **Migration Object Instances** screen, you can view all messages related to one migration object.

The screenshot displays the SAP Migration Object Instance Messages screen. The left sidebar shows the product details for 'Test_001' (Trading goods (HAWA)), including its product group, description, and status (Error). The main area shows a summary of messages: 6 All, 4 Error, 1 Warning, 0 Success, and 1 Information. Below this is a table of messages, all of which are errors related to mapping value lengths.

Type	Message	Message Class	Message Number	Date and Time
Error	MAP_BERID: Mapping value have different lengths; Kanban for 1710(KANBAN1710) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_BKLAS: Mapping value have different lengths; Trading Goods(3100) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_BWKEY: Mapping value have different lengths; Plant 1 US(1710) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_CK_ML_ABST: Mapping value have different lengths; Transaction-Based(2) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_DISLS: Mapping value have different lengths; Fixed order quantity(FX) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_DISLS: Mapping value have different lengths; Lot-for-lot order quantity(EX) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_DISMM: Mapping value have different lengths; Reorder-Point Planning(VB) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_DISPO: Mapping value have different lengths; MRP Controller 001(001) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_DWERK: Mapping value have different lengths; Plant 1 US(1710) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_EKGRP: Mapping value have different lengths; Group 002(002) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40
Error	MAP_IPRKZ: Mapping value have different lengths; Day(D) set to initial value.	DMC_RT_MSG	206	28.08.2020, 15:40

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 | Search | Actions | Download Template

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

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

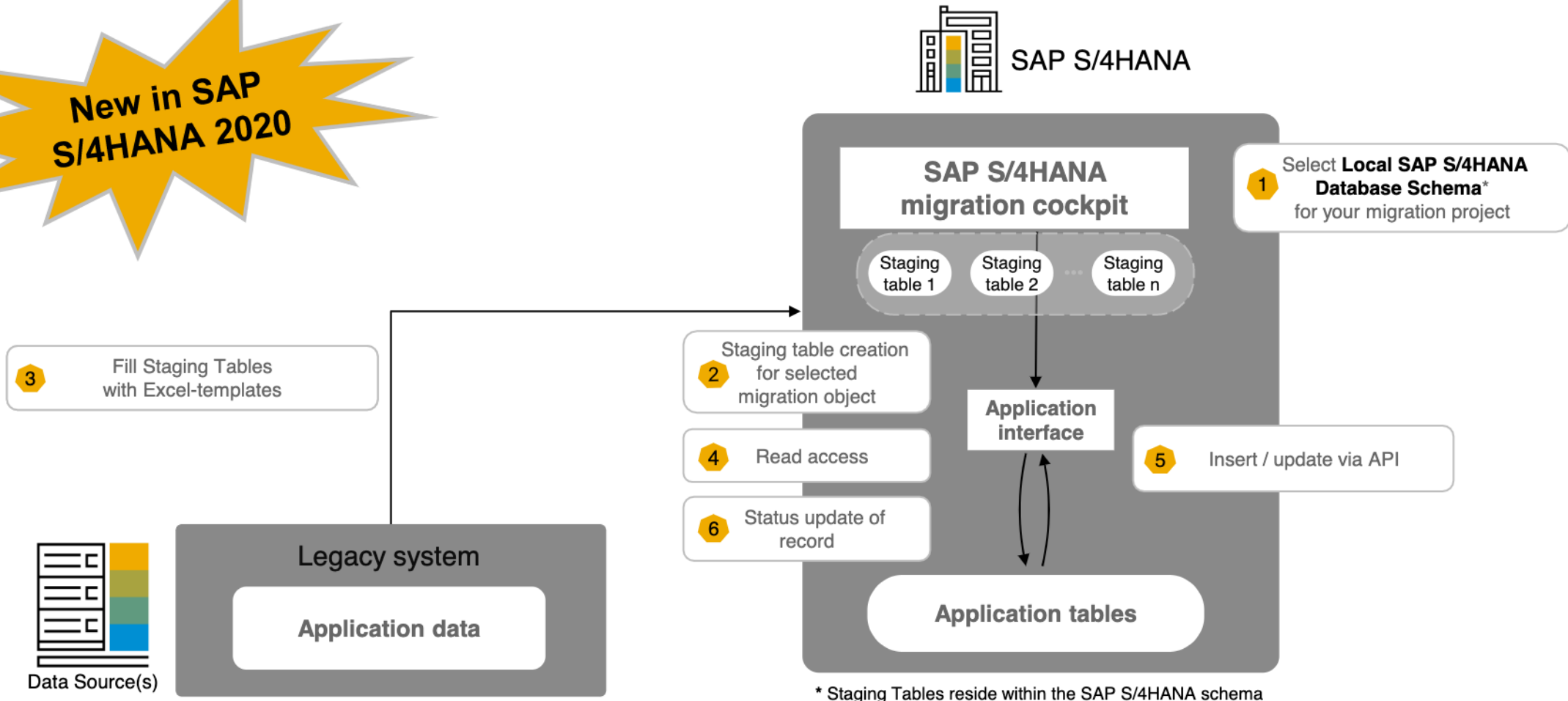
Name	Maximum Number Used
Product	1
Product - extend existing record by new org levels	1

SAP S/4HANA migration cockpit - transfer data using Staging Tables

System setup SAP S/4HANA Local SAP S/4HANA Database Schema

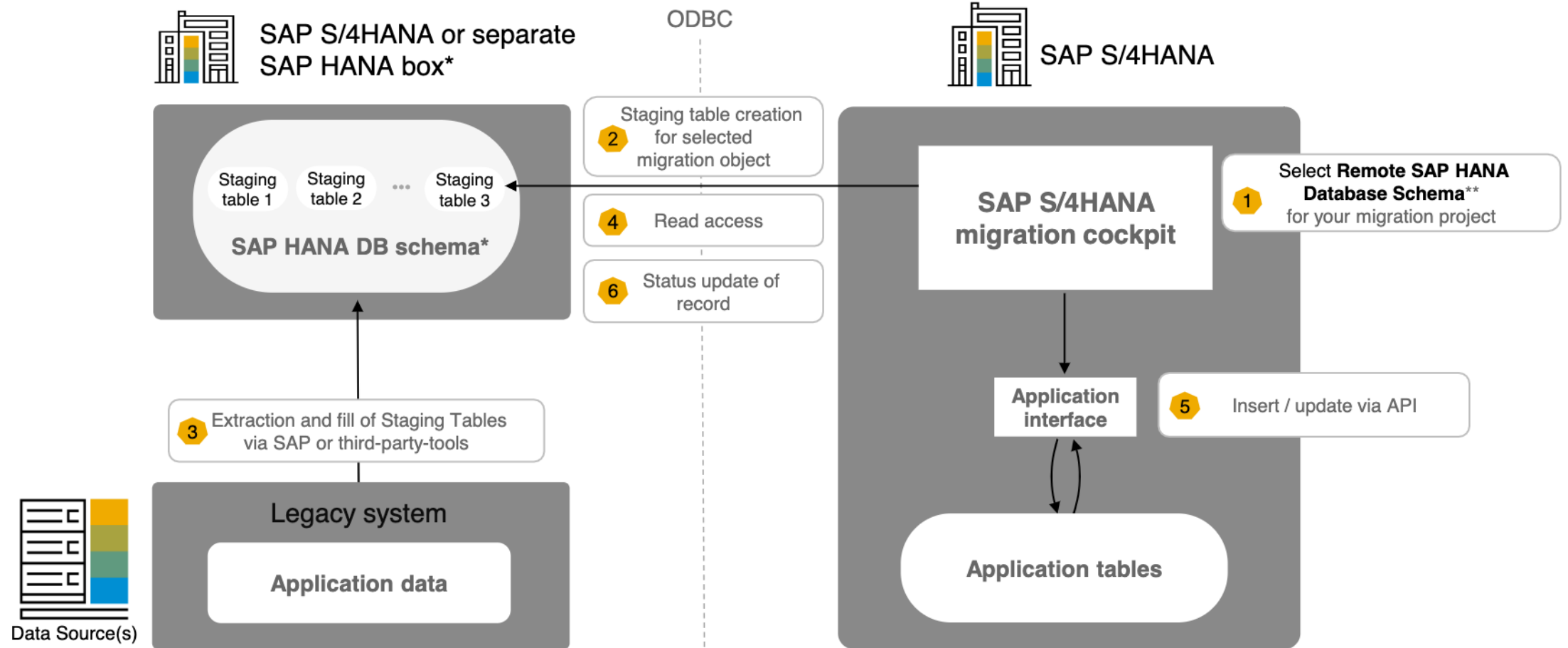


New in SAP S/4HANA 2020



SAP S/4HANA migration cockpit - transfer data using Staging Tables

System setup SAP S/4HANA Remote SAP HANA Database Schema

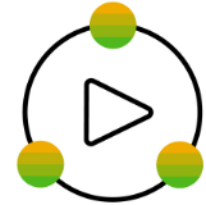


* Separate SAP HANA database schema is required, can also be on SAP S/4HANA target system
 ** Prerequisite: established secondary database connection



Video

Migrate data using Staging Tables



SAP S/4HANA migration cockpit (file/staging)

What's new 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 Cloud (ES), 2105 and SAP S/4HANA 2021 onwards.





SAP S/4HANA migration cockpit - migrate data using Staging Tables

Key takeaways – news in 2020

1. One harmonized user experience using Fiori UI for all approaches
2. Processing of multiple objects at once possible
3. Instance-based status tracking and messages
4. Progress tracking during simulation / migration
5. Mapping upload/download in Fiori app – templates or with populated values
6. Projects created using transaction LTMC (WebDynpro) cannot be converted to new SAPUI Fiori app but will be available as read-only from 2021 onwards for on-premise.

SAP S/4HANA migration cockpit – migrate data using Staging Tables

Migration object modeler

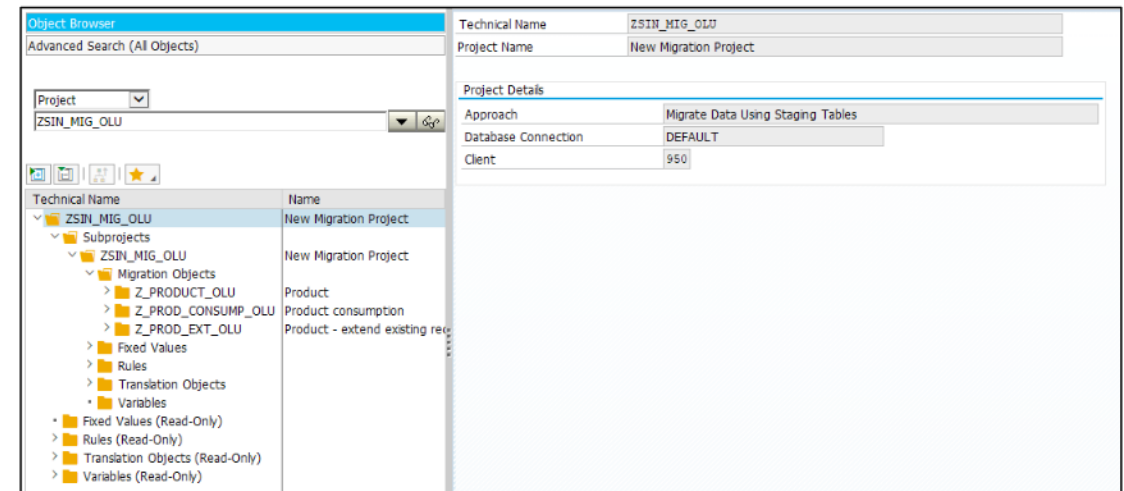


Flexible and extendable

- Copy migration objects
- Adjust standard migration objects (e.g. add fields)
- Add customer tables or fields to a standard migration object or to a new migration object
- Export / import a project from one system to another system
- 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
- Use project in a different client



**Transaction:
LTMOM**





Migration object modeler (File/Staging)

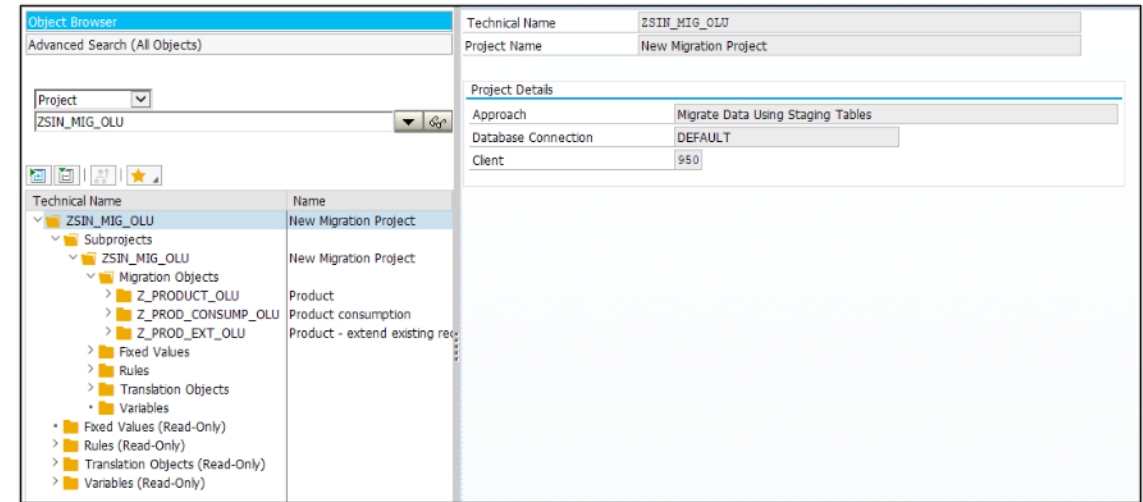
What's new with 2020



Flexible and extendable



- Copy migration objects
- Adjust standard migration objects (e.g. 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.

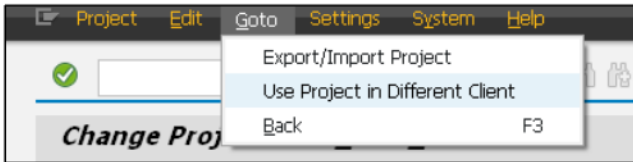


Migration object modeler (File/Staging)

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 (e.g. 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' field is set to 'ZSIN_MIG_OLU'. The 'Project Details' pane shows the following information:

Technical Name	ZSIN_MIG_OLU
Project Name	New Migration Project

The 'Project Details' pane also shows the following information:

Approach	
Database Connection	
Client	

The 'Transfer Project from One System to Another' dialog is open, showing the following options:

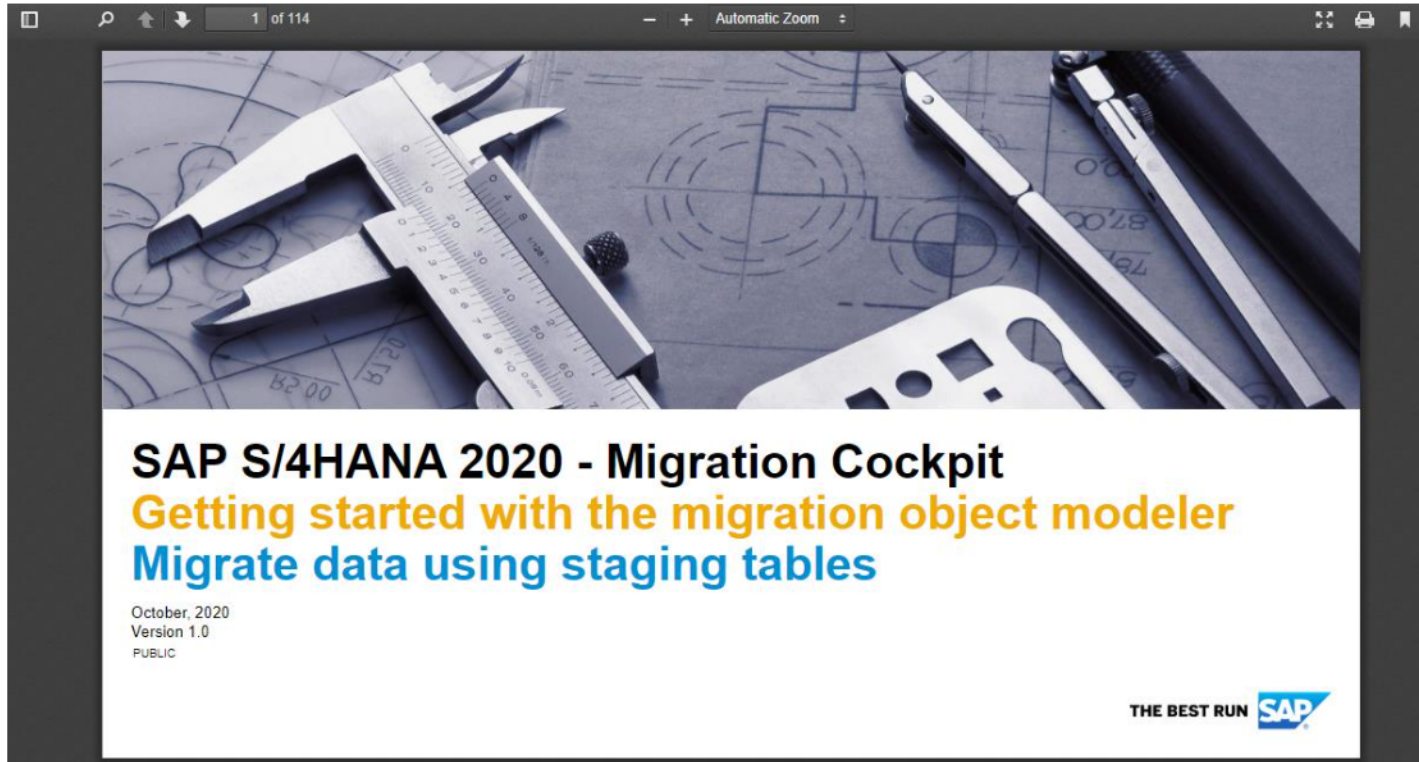
- Export Project
- Import Project

The 'Project' field in the dialog is set to 'ZSIN_MIG_OLU'.



Migration object modeler


Deep dive slides



The thumbnail shows a presentation slide with a background image of drafting tools (caliper, compass, pencil) on a blueprint. The slide text is as follows:

SAP S/4HANA 2020 - Migration Cockpit
Getting started with the migration object modeler
Migrate data using staging tables

October, 2020
Version 1.0
PUBLIC

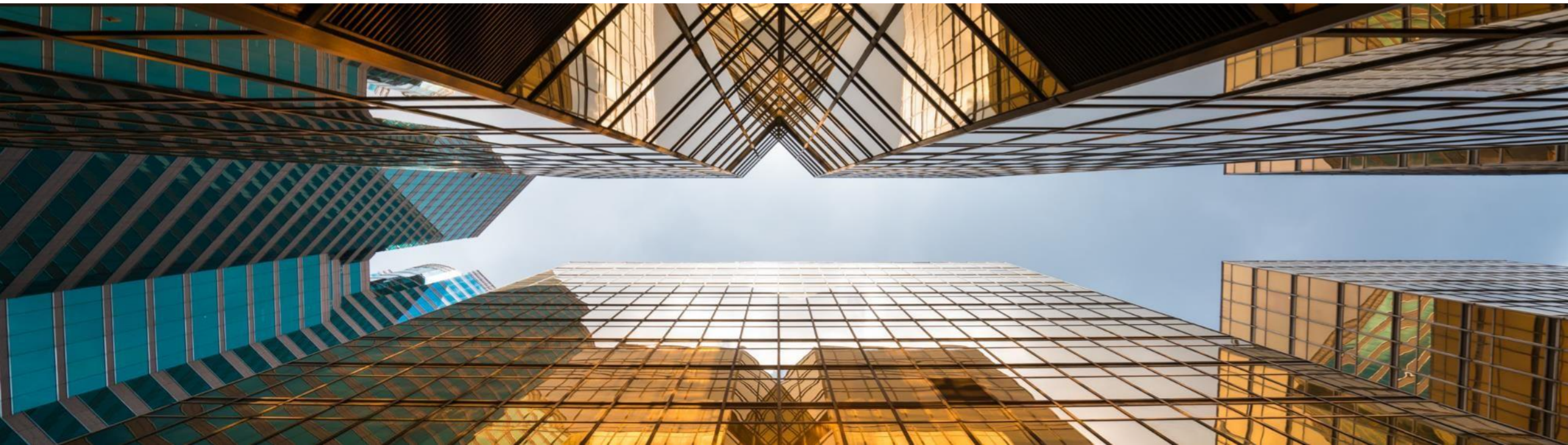
THE BEST RUN 



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

SAP S/4HANA migration cockpit

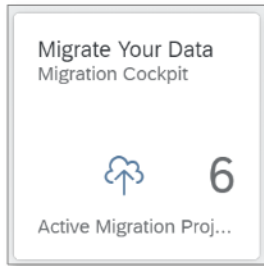
Migrate data directly from SAP system



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



Fiori App Migrate your data



Process & content

1. General Data

Name: Demo_2020_DT

Scenario: SAP ERP to SAP S/4HANA

Connection to Source System: UABTRUST

Development Package: \$TMP

2. Migration Objects

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

Data load



SAP S/4HANA 2020: **+140** Migration objects



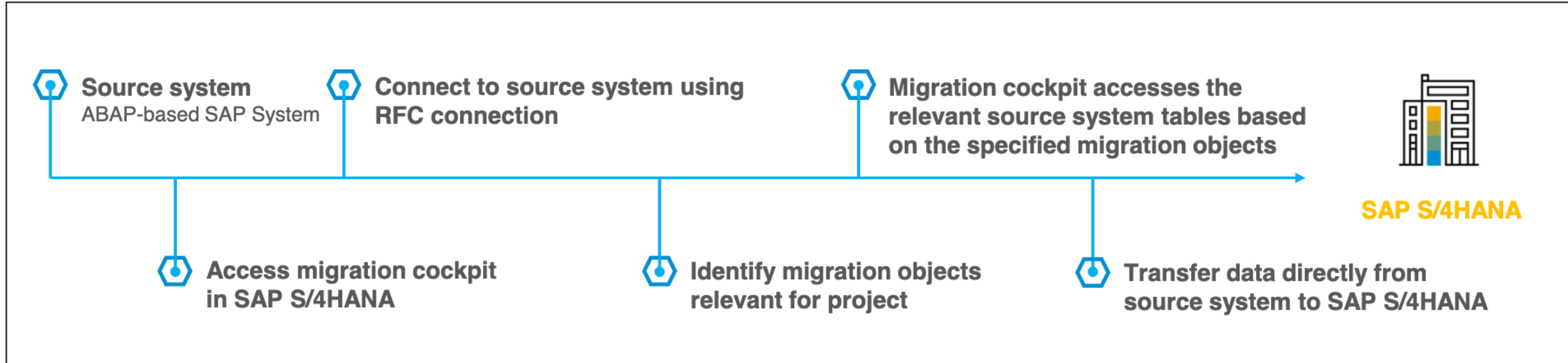
Available for:

- 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

Predefined selection criteria is depending on migration scenario.

SAP S/4HANA migration cockpit

Migrate data directly from SAP source system



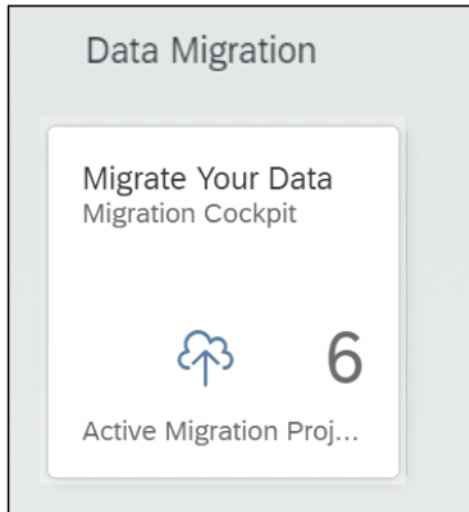
- Suitable for ABAP-based SAP source systems only
- Four migration scenarios supported
 - SAP ERP to SAP S/4HANA
 - SAP Apparel and Footwear to SAP S/4HANA
 - SAP EWM to decentralized EWM based on SAP S/4HANA
 - SAP CRM to SAP S/4HANA for customer management (SAP S/4HANA 1909 FPS01 onwards)

SAP 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 CRM to SAP S/4HANA Service
- SAP ERP to SAP S/4HANA**
- SAP EWM to Decentralized EWM based on SAP S/4HANA

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.

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, e.g. 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.

The screenshot displays the 'New Migration Project' interface in the SAP S/4HANA migration cockpit. The interface is divided into three steps: 1. General Data, 2. Data Selection, and 3. Migration Objects. The current step is '3. Migration Objects', which is highlighted with a blue circle and a blue underline. Below the step indicator, there is a navigation bar with three steps: 1. General Data, 2. Data Selection, and 3. Migration Objects. The '3. Migration Objects' step is currently active.

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.

The interface is divided into two main sections: 'Available Migration Objects' and 'Selected Migration Object'.

Available Migration Objects: This section contains a search bar and a list of migration objects. The list has columns for 'Name', 'Predecessor', and 'Documentation'. The objects listed are:

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

Selected Migration Object: This section contains a list of migration objects that have been selected for the project. The list has columns for 'Name', 'Predecessor', and 'Documentation'. The objects listed are:

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

Two callout boxes provide additional information:

- The first callout box points to the right arrow button between the two tables and contains the text: "Mark the relevant migration objects and add them to your project."
- The second callout box points to the 'Available Migration Objects' table and contains the text: "Preconfigured migration content: List of available migration objects relevant for the selected scenario (e.g. SAP ERP to SAP S/4HANA)."

A 'Review' button is located at the bottom left of the interface.

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.

SAP New Migration Project

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: [Edit](#)

3. Migration Objects

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

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

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 S/4HANA Migration Cockpit interface. At the top, it shows the project name 'Demo_2020_DT' and the status 'Running Activiti... 0'. The migration approach is 'Migrate Data Directly from SAP System' and the connection to the source system is 'UA8TRUST'. A table lists migration objects with columns for Data, Mapping Tasks, Simulation, Migration, and Migration Progress. Two objects are shown: 'CO - Activity type' and 'CO - Cost center'. The 'Action' column for these objects shows a dropdown menu with options: 'Select', 'Mapping Tasks', 'Simulate', and 'Migrate'. A callout box points to the 'Actions' dropdown, stating: 'You can execute actions for **several or all** migration objects in your project.' Another callout box points to the 'Select Data' dropdown, 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
<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

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 interface. At the top, there is a summary bar with statistics: Instances: 0, Open: 3, Errors: 0, Excluded: 0, Done: 0, Successful: 0, and Migration Not Started. A 'Select Data' button is visible on the right. Below this, the main content area displays the migration object 'CO - Activity type' with a status of 'Ready for Processing'. A navigation bar includes tabs for Documentation, Table Structure, History, Dependencies, and Technical Information. The 'Documentation' tab is active, showing a link to the SAP Help Portal. Below this, the 'Table Structure' section lists two tables: 'Activity master' and 'Activity type texts'. The 'History' section shows a list of actions with columns for Action, Started By, Started On, Finished On, and Messages.

CO - Activity type

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

CO - Activity type

Demo_2020_DT Mapping Tasks Instances

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.

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.

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"/>
<input type="checkbox"/>		000104	To be confirmed	<input type="button" value="Confirm"/>
<input type="checkbox"/>		000105	To be confirmed	<input type="button" value="Confirm"/>
<input type="checkbox"/>		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"/>

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.

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

Options for Confirming Values	Options for Loading Values	Number of Files
None	None	1
Confirm Values Automatically	Replace Existing Values	
Do Not Confirm Values Automatically	Modify Values / Add Values	



Note that the files may contain target values that were created automatically (e.g. 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



SAP Monitoring

Demo_Direct_Transfer_OP2020

Type: All Types | Name: | Action: All Actions | Started by: | Started at: | Finished On: | Status: All Activities | Adapt Filters (1) | Go

Activities (27)

Activity	Object Type	Started By/On	Status	Options
Upload of mapping values	Business Area	Müller	Finished On: 26.10.2020, 14:13:06 Runtime: 1 Minutes	Show Messages
Completed				

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 etc.

SAP Migration Messages

Messages

Migration Project: Demo_Direct_Transfer_OP2020 | Event: Upload of mapping values completed | Started By: Müller | Started On: 26.10.2020, 14:13:05 | Finished On: 26.10.2020, 14:13:06

7 All | Error 0 | Warning 0 | Success 0 | Information 7

Type	Message Title	Message Class	Message Number	Date and Time
Information	Uploading mapping values for mapping task Business Area	/LTB/IMC	236	26.10.2020, 14:13:06
Information	Option for loading mapping values: Replace Existing Mapping Values	/LTB/IMC	237	26.10.2020, 14:13:06
Information	Option for confirming values: Do Not Confirm Values Automatically	/LTB/IMC	240	26.10.2020, 14:13:06
Information	Upload of mapping values started (file Business Area_changed_201026.xml)	/LTB/IMC	242	26.10.2020, 14:13:06
Information	Upload of mapping values completed (file Business Area_changed_201026.xml)	/LTB/IMC	243	26.10.2020, 14:13:06
Information	All existing mapping values have been deleted	/LTB/IMC	241	26.10.2020, 14:13:06
Information	6 mapping values have been added for mapping task Business Area.	/LTB/IMC	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 header displays 'CO - Activity type (32)' and 'Demo_2020_DT'. Below the header is a search and filter section with fields for 'Controlling Area', 'Activity Type', 'Valid To Date', and 'Activity Type Category'. A 'Go' button is present. Below the filters is a table with columns: 'Controlling Area', 'Activity Type', 'Valid To Date', 'Activity Type Category', 'Variant Activity Type Category for Actual Postings', 'Additional Fields', 'Action', and 'Status'. The table contains three rows of data. A callout points to the search and filter fields, stating: 'The system offers various possibilities to search and filter the list.' Another callout points to a gear icon in the top right of the table area, stating: 'Use the gear wheel to select the columns to be displayed.' A third callout points to a right-pointing arrow in the 'Action' column of the first row, stating: 'Click the arrow to view the migration object instance details.' Below the main table, a detailed view of a migration object instance is shown, including fields for 'Controlling Area: 0001', 'Activity Type: 000101', 'Valid To Date: 99991231', 'Activity Type Category: 1', and 'Migration Object: CO - Activity type'. A 'Tables (2)' section is also visible, listing 'Activity master, CSLA' and 'Activity type texts, CSLT'. To the right of the details view, 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.

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?



Status

Excluded

Demo_2020_DT

Running Activities 0

Monitoring Mapping Tasks Job Management Settings Finish Project

Migration Approach: Migrate Data Directly from SAP System Connection to Source System: UA8TRUST

Show All

Search

<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.

The screenshot shows the SAP Migration Object Instances list. At the top right, a button labeled "Mass Processing" is highlighted with a yellow box. Below the header, there are filter fields for Controlling Area, Activity Type, Valid To Date, Activity Type Category, and Variant Activity Type Category. A table below shows three instances:

Controlling Area	Activity Type	Valid To Date	Activity Type Category	Variant Activity Type Category for Actual Postings	Additional Fields	Action	Status
0001	000101	99991231	1		Display All	Selected	Success
0001	000102	99991231	1		Display All	Selected	Success
0001	000103	99991231	2		Display All	Selected	Success

The screenshot shows the mass processing dialog in three steps:

- 1. Action:** A section titled "1. Action" with a yellow box. It contains radio buttons for "Exclude", "Undo Exclude", "Simulate" (selected), and "Migrate".
- 2. Selection:** A section titled "2. Selection" with a yellow box. It contains filter fields for Controlling Area (value: *0001*), Activity Type (value: a..b), Valid To Date, Activity Type Category, Variant Activity Type Category for Actual Postings, Activity Unit, Allocation Cost Element, Indicator: Actual Allocation Price, and Action/Status (value: Show All). An "Update" button is below.
- 3. Data Preview:** A section titled "3. Data Preview" with a yellow box. It shows a preview table for the "Simulate" action:

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. The 'Migrate' option is highlighted, and its sub-menu is open, 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. The 'Migrate' option is highlighted.

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 the migration options dropdown menu. The options are: Random 10%, Random 500, All Instances, All Successfully Simulated Instances, and Custom Selection. The 'All Instances' option is highlighted.

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's a navigation bar with the SAP logo and 'Migration Project'. Below that, the project name 'Demo_2020_DT' and 'Running Activities 0' are displayed. A menu bar contains 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. The main area shows 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 highlights the quick access buttons and their functions.

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

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 e.g. add new migration objects
- **Finish project**

See more details in application help.

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 a migration project. At the top, there are search filters for Type, Name, Action, Started by, Started at, and Finished On. Below the filters is a table of activities with columns for Activity, Object Type, Started By/On, Status, and Options. The activities listed are 'Download mapping values', 'CO - Cost center', and 'CO - Activity type'. The 'Options' column contains buttons like 'Download File' and 'Show Messages'.

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
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
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
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

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

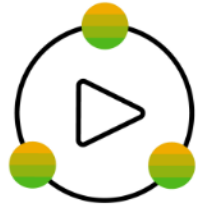
You can view the downloaded files (e.g. downloaded mapping values.)

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



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

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 \(check chapter 7\)](#)

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 e.g. so that you do not upload value mapping from internal numbering.

SAP S/4HANA migration cockpit – Direct Transfer

Summary: What's new with 2020?



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

SAP S/4HANA migration cockpit (direct transfer)

What's new?

- Transport of projects between systems
- Reselection of data – functionality enhanced in SAP Fiori
- Mass processing
Migration object instances view: Filter a subset of instances and execute an action. Work with dedicated business processes or critical items.
- Monitoring functionality
- Mapping download/upload in SAP Fiori – templates or with populated values





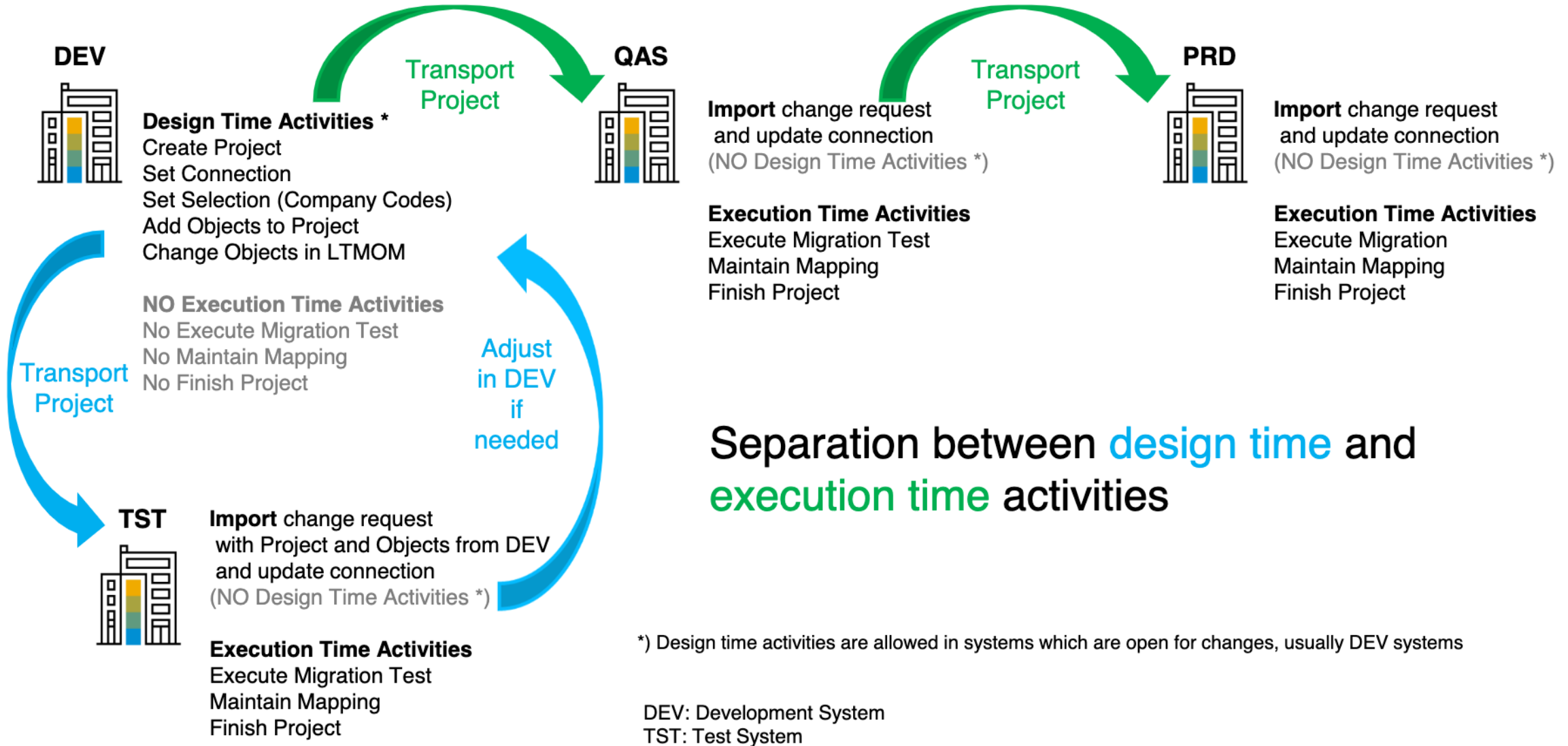
SAP S/4HANA migration cockpit – Direct Transfer

Migration object modeler - what's new with 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 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



**Transaction:
LTMOM**

- 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
- Mapping download and upload

The screenshot displays the SAP Migration Object Modeler interface. On the left, the 'Object Browser' shows a tree view for the project 'Demo_2020_DT', including migration objects like 'S4_CO_ACTIVITY_TYPE' and 'S4_CO_COST_CENTER', and rules like 'Fixed Values', 'Value Mappings', and 'Source Code'. On the right, the 'Migration Project' details are shown for 'Demo_2020_DT', including project details, approach, scenario, RFC destination, package, technical UUID, and retention information.

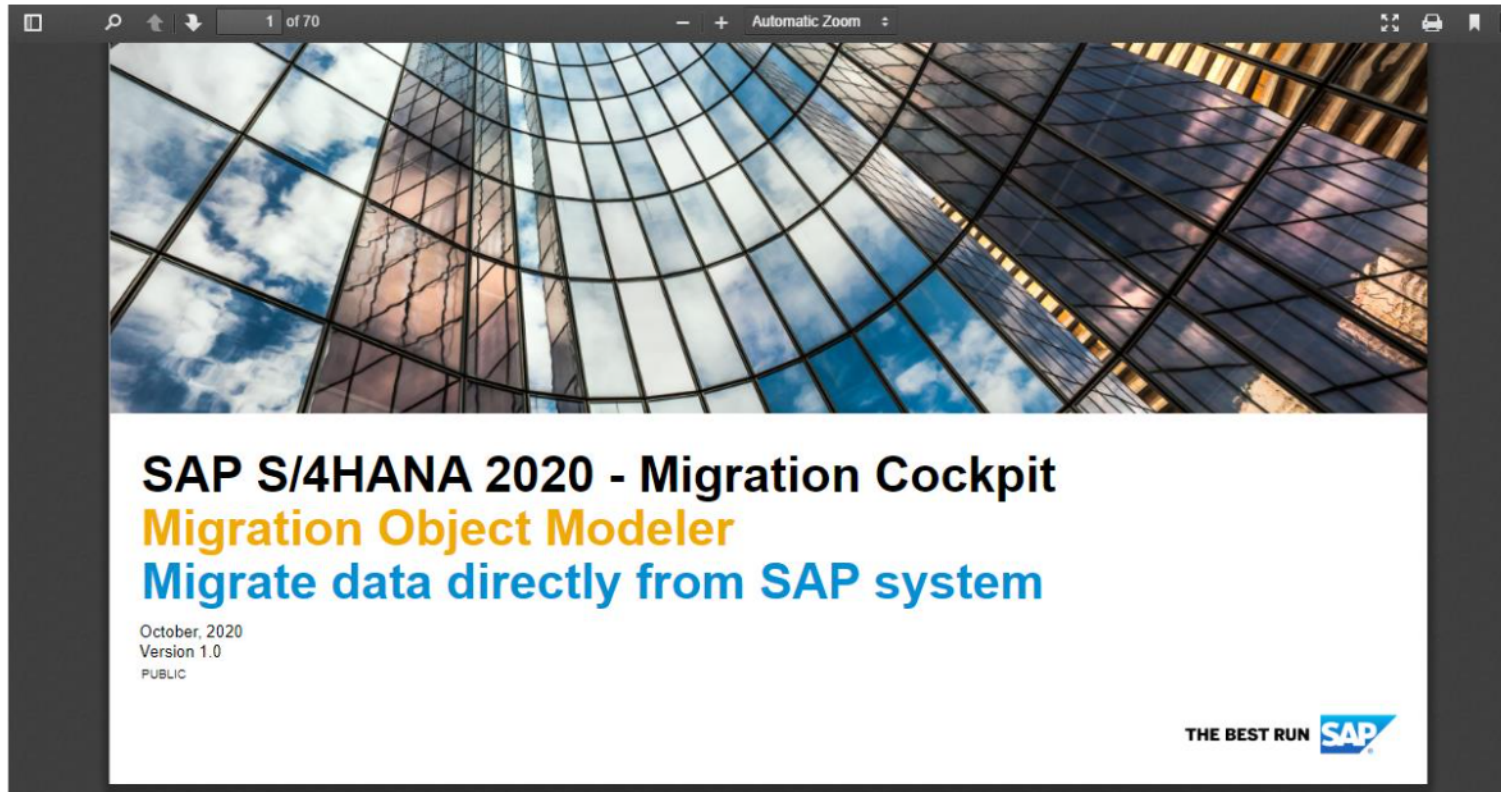
Technical Name	Name
Demo_2020_DT	Demo_2020_DT
Migration Objects	
S4_CO_ACTIVITY_TYPE	CO - Activity type
S4_CO_COST_CENTER	CO - Cost center
Rules	
Fixed Values	
Value Mappings	
Source Code	

Migration Project	
Migration Project	Demo_2020_DT
Project Details	
Approach	Migrate Data Directly from SAP System
Scenario	SAP ERP to SAP S/4HANA
RFC Destination	UABTRUST
Package	TMP Temporary Objects (never transported!)
Technical UUID	FA163E8545E71EEAB1EF257E068D0963
Retention Information	
<input type="checkbox"/> Project is Finished	Finished On/By / 00:00:00 /
Retention Date	No Retention Period Set
Days Remaining	0



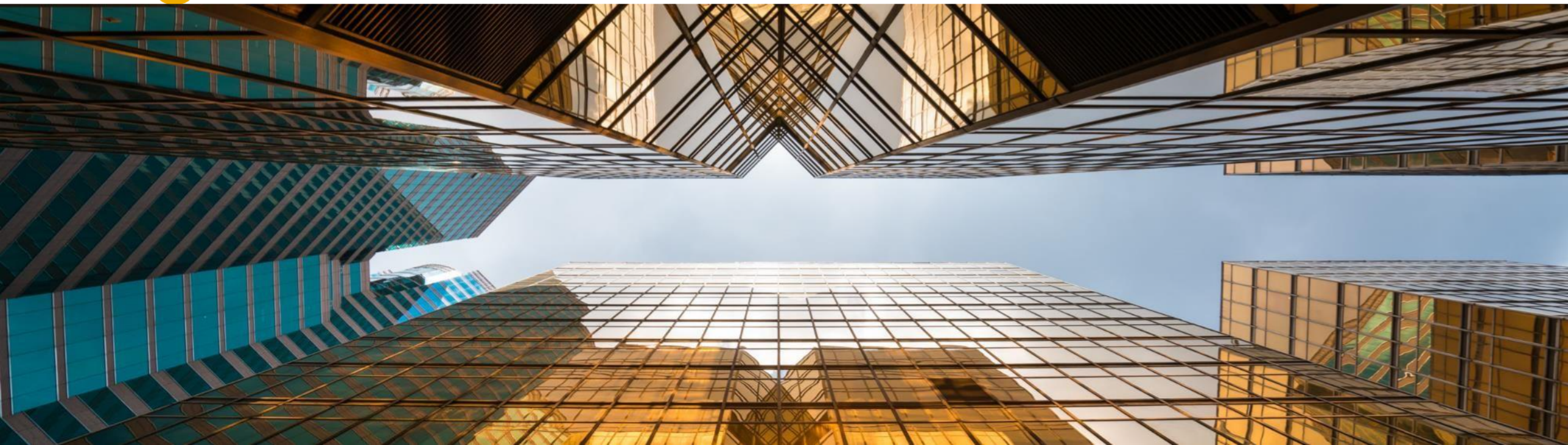
Migration object modeler

Deep dive slides



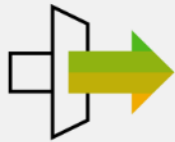
[SAP S/4HANA Migration Object Modeler \(Direct Transfer\)](#)

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



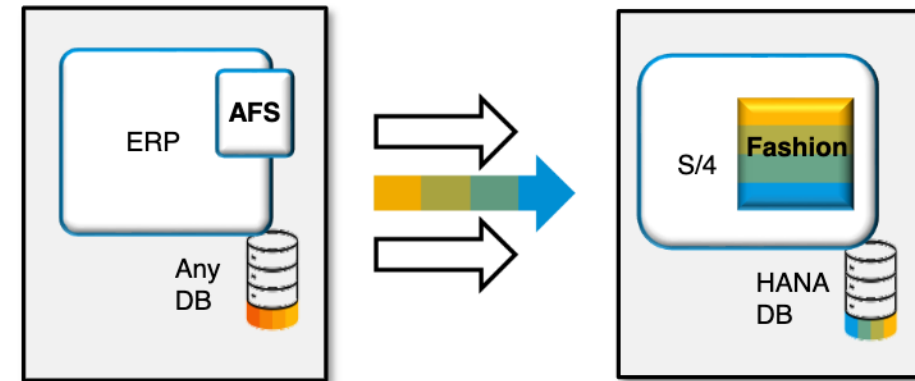
Migrate data directly from SAP System
Selection of data from SAP source system via RFC
Data Selection based on company code



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

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

SAP CRM to SAP S/4HANA Service

SAP ERP to SAP S/4HANA

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

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

<input type="checkbox"/> Name	Predecessor	Documentation
<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

[Review](#)

Selected Migration Object

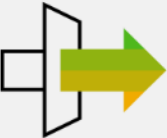
<input type="checkbox"/> Name	Predecessor	Documentation
<input type="checkbox"/> AFS - Article	3	Documentation
<input type="checkbox"/> AFS - Season	1	Documentation

Select migration objects in scope

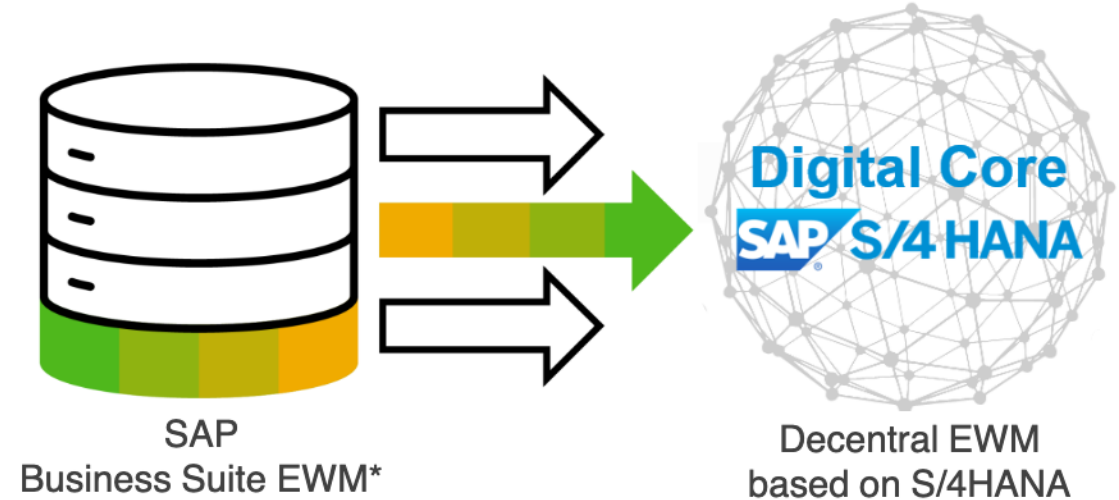
Preconfigured migration content:
List of available migration objects

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 via 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

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



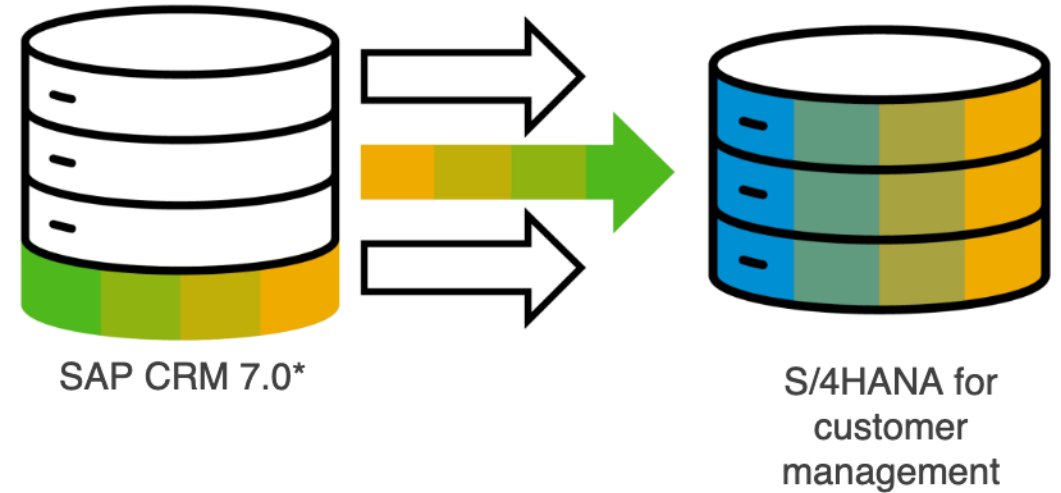
SAP CRM to SAP S/4HANA for customer management

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

 Migrate data directly from SAP system
Selection of data from SAP source system via RFC
Data Selection based on Sales Organization

 Preconfigured migration object

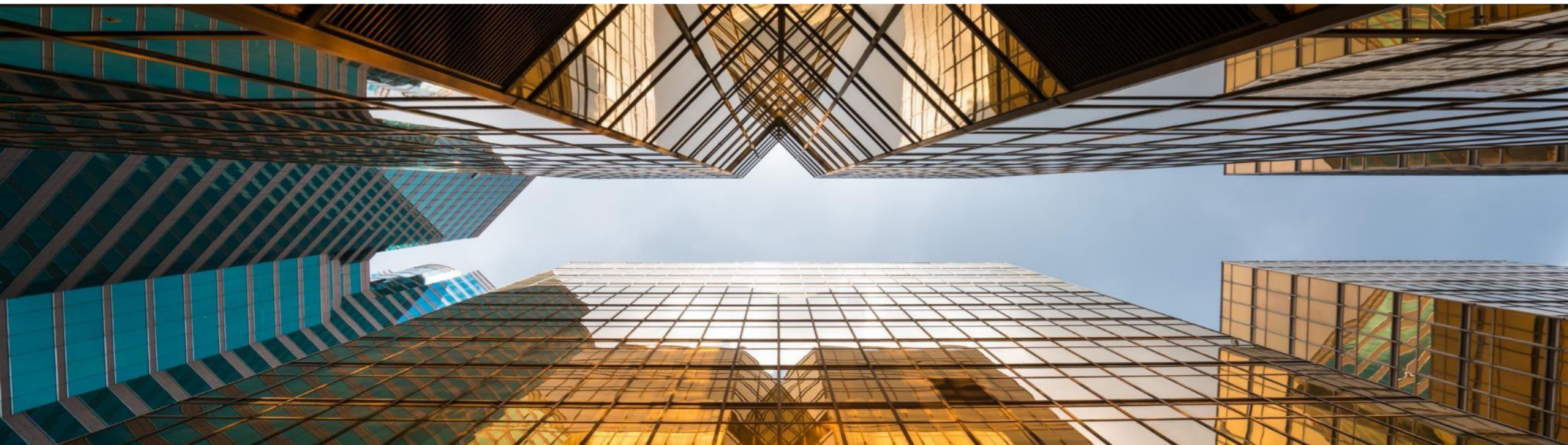
- Activities



*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

	  SAP S/4HANA Cloud SAP S/4HANA	  SAP S/4HANA Cloud SAP S/4HANA	 SAP S/4HANA
Availability			
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 e.g. 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

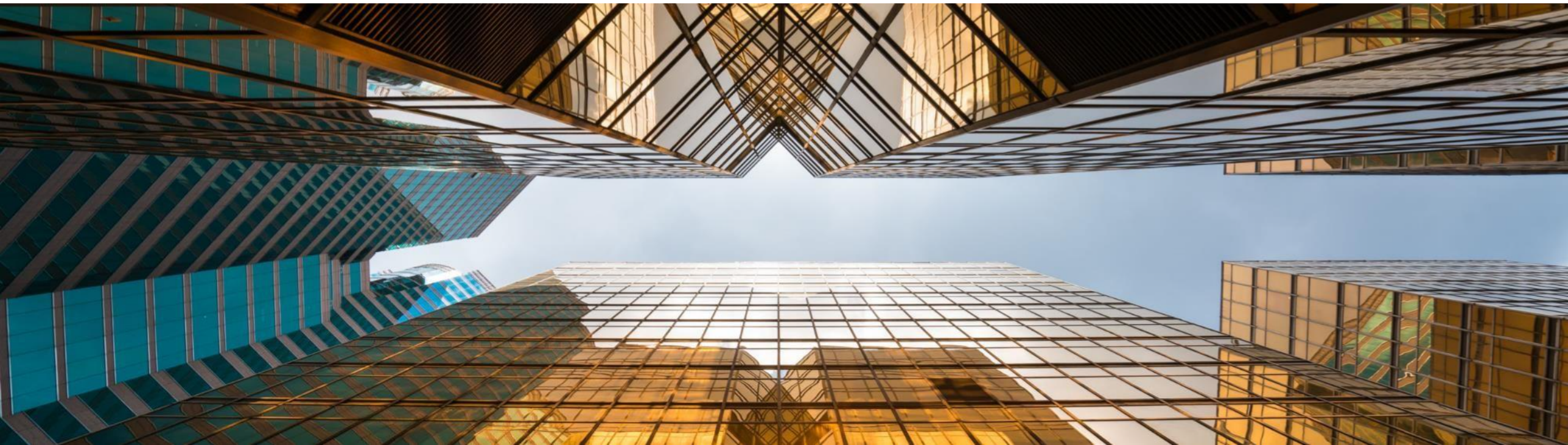
SAP S/4HANA migration cockpit – comparison of migration approaches

SAP S/4HANA 2020

	 Migrate data using Staging Tables	 Migrate data directly from SAP system
Availability	  SAP S/4HANA Cloud SAP S/4HANA	 SAP S/4HANA
Source System	Any source system (SAP or non-SAP)	ABAP-based SAP source systems
Data Provisioning	XML template files filled by customers or via ABAP Staging Tables filled by customers (using e.g. SAP Data Services, SDI, 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

Migration objects



SAP S/4HANA migration cockpit

Preconfigured migration objects SAP S/4HANA

The screenshot displays the SAP Help Portal interface for 'Migration Objects for SAP S/4HANA'. The page title is 'Available Migration Objects' with a star icon. Below the title, there is a search bar and a 'Show/hide columns' button. A yellow box labeled 'Download migration object list' points to the 'CSV' button. Another yellow box labeled 'Filter for migration approach*' points to the 'Migration Approach' column header. A third yellow box labeled 'Documentation available' points to the 'AFS - Article' row in the table. A fourth yellow box labeled 'Select All Clear Filter' points to the filter options in the 'Migration Approach' column.

Migration Object Name	Business Object Type	Migration Approach	Component
PM - Functional location task list			
PM - Functional location BOM			
PM - Functional location BOM			
PM - Functional location			
PM - Functional location	Master data	Direct Transfer - ERP	PM



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

[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

New migration objects “Staging” for SAP S/4HANA 2020

New objects in 2020

- FI - G/L account
- FI - G/L account - extend existing record by new org levels
- SEPA mandate
- ECM - Change Master
- EFD - Reinf report
- TRM - Foreign exchange spot/forward transaction -contract
- TRM - Foreign exchange swap - contract
- TRM - Interest rate instrument
- TRM - Deposit at notice
- TRM - Commercial paper
- TRM - FX option
- TRM - Position value
- PM - Measurement document
- TRM - Foreign exchange collar - contract
- Material listing and exclusions
- EHS – Location

New objects in 2020

- JVA - Joint operation agreement
- JVA - Joint venture master data
- JVA - Joint venture partner
- JVA - Venture suspense
- JVA - Cost center suspense
- JVA - Project suspense
- JIT - Supply control
- JIT - Package group
- Product
- Product - Extend existing with new org levels
- DG - Assessment for unpackaged product (text-based)
- DG - Assessment for packaged product (text-based)
- DG - Assessment for unpackaged product (content-based)
- QM - Inspection plan
- VC - Characteristics group
- VC - Material variant



SAP S/4HANA migration cockpit

New migration objects “Direct Transfer” for SAP S/4HANA 2020

New objects for ERP

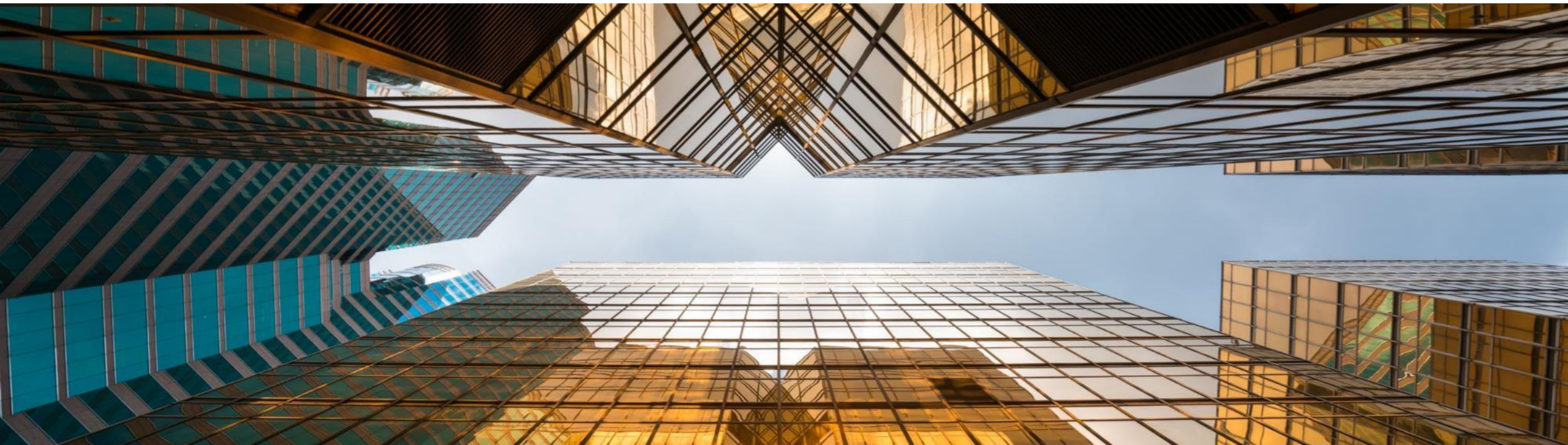
- Document info record (DMS)
- EHS - Location
- EHS - Location hierarchy
- VC - Assign global dependency to characteristic
- VC - Assign global dependency to class
- VC - Interface design (characteristic group)
- VC - Variant table entry
- VC - Variant table structure
- JIT - Customer
- JVA - Joint operating agreement (step 2)
- JVA - Joint venture master (step 2)
- Product classification (legal control)
- RE-FX Business partner roles
- TRM - Deposit at notice

New objects for EWM

- 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
- Work center dependent settings
- Work center determinations

SAP S/4HANA migration cockpit

Further information



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

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

Search and browse the Simplification 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 committed to a reliable migration approach built into SAP S/4HANA using the SAP migration objects.

- [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](#) *

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

* openSAP Course based on 1909

SAP S/4HANA migration cockpit – development newsletters

The screenshot shows the SAP Help Portal interface for the 'Data Migration' section. The top navigation bar includes the SAP logo, 'SAP Help Portal', and 'SAP S/4HANA'. Below this, the page title 'Data Migration' is followed by '2020 Latest' and 'English'. A search bar is present with the text 'This document' and 'Search in this document'. A 'Create Custom PDF' button is visible in the top right.

The main content area features a large heading 'Data Migration' with a 'Send feedback' link. Below the heading, a paragraph states: 'SAP enables data migration to SAP S/4HANA for customers coming from any legacy system. SAP S/4HANA customers can take advantage of reliable migration approaches built into SAP S/4HANA using the SAP S/4HANA Migration Cockpit together with a set of predefined data migration objects.'

A sidebar on the left contains several navigation tiles: 'Product Assistance', 'Object-Related Information', 'Getting Started', 'Further Information', 'SAP Best Practices', 'Training and Education', 'News', and 'SAP Community'.

The 'News' section contains two items:

- [SAP S/4HANA Migration Cockpit – Development Newsletter](#)
Get all the news directly from the development team of SAP S/4HANA Migration Cockpit.
- [Data Migration Content Development Newsletter](#)
Find details on data migration content in the context of SAP S/4HANA Migration Cockpit. Moreover, this document lists new KBAs, tips, and tricks.

Two yellow callout boxes with arrows point to the links in the news section:

- The first box, labeled 'SAP S/4HANA migration cockpit - Tool', points to the 'SAP S/4HANA Migration Cockpit – Development Newsletter' link.
- The second box, labeled 'Data Migration Content – Migration Objects', points to the 'Data Migration Content Development Newsletter' link.

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

2 Migration Objects

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.

Cancel

Help Topics

Search Help Topics

What's This App?

Display Next Available

Database Connection

Specify a location for the staging tables.

Navigate directly to the SAP Help Portal documentation

View additional information for certain fields

SAP S/4HANA migration cockpit community

SAP | Community

Topics Answers Blogs Events Programs Resources What's New

Home > Community > Topics

Ask a Question Write a Blog Post

SAP S/4HANA Migration Cockpit – New Demo Guides in Fully-Activated Appliance available

We largely enhanced the demo guides - available exercises for 1909 FFSO2: Direct Transfer: Migrate activity types, cost centers, vendors, materials, LTMOM

[Find details here!](#)

SAP S/4HANA Migration Cockpit

[Overview Video](#)

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.

Featured Content

SAP S/4HANA Migration Cockpit

Take advantage of reliable migration approaches using the SAP S/4HANA Migration Cockpit. Find the overview presentation here.

[SAP S/4HANA Migration Cockpit](#)

Landing Pages

Access the collection of data migration topics with SAP S/4HANA Migration Cockpit Landing Pages.

[SAP S/4HANA](#)

[SAP S/4HANA Cloud](#)

Feature Blog

Create your Test System With the fully-activated appliance 1909 FFSO1 we incorporated exercises and and scripts for SAP S/4HANA Migration Cockpit - for all 3 migration approaches.

[Read the Blog](#)

FAQ

100+ answered questions!

[Read the FAQ Document](#)

Browse

- [SAP S/4HANA Migration Cockpit](#)
- [SAP S/4HANA Migration Cockpit FAQ](#)

Resources

- [Upcoming Sessions](#)
- [SAP S/4HANA Migration Cockpit – Subscribe to our upcoming Newsletters](#)
- [Knowledge Base Articles \(KBA\)](#)
- [FAQ Staging Tables Approach](#)
- [Migration Object Modeler -](#)

One-stop shop – free access

- Latest news
- Blogs
- Q&A section

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

PUBLIC

SAP S/4HANA Migration Cockpit

Frequently Asked Questions (FAQs)

Preconfigured SAP S/4HANA sandbox system

Demo scripts for SAP S/4HANA migration cockpit available



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

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



Based on SAP S/4HANA 1909, update on SAP S/4HANA 2020 coming soon.

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/2019/04/23/sap-s4hana-fully-activated-appliance-demo-guides/>

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)



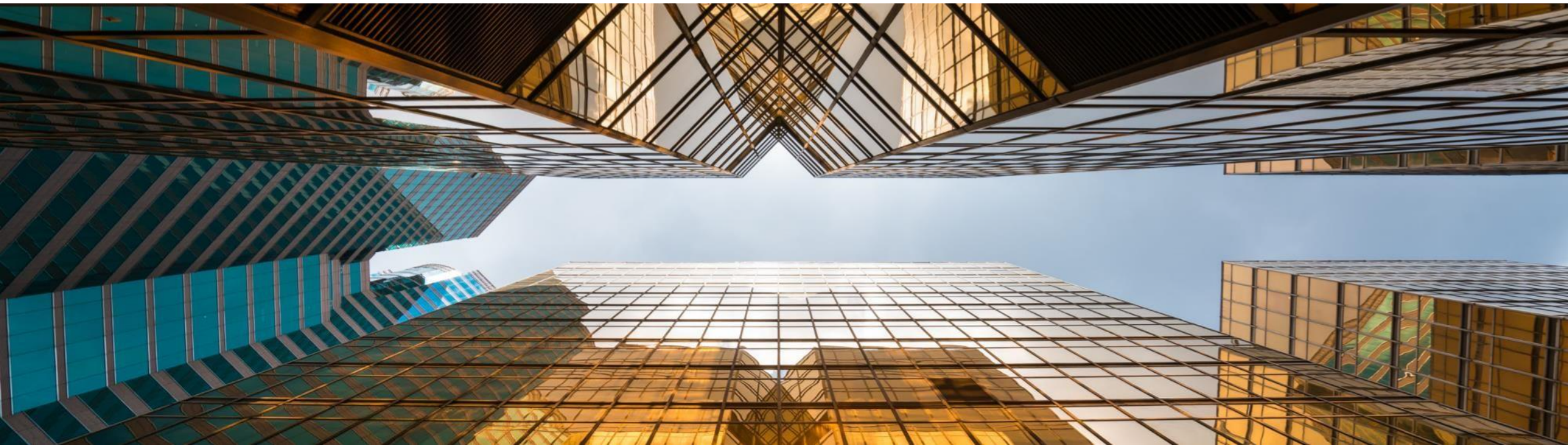
SAP S/4HANA Cloud



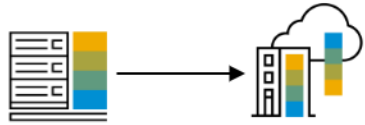
SAP S/4HANA

SAP S/4HANA migration cockpit

Key takeaways



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



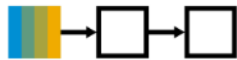
2. Preconfigured migration content specific to SAP S/4HANA

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



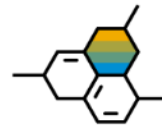
3. Integrated in SAP Activate methodology

- Proven methodology integrated in SAP Activate road map: *Transition to SAP S/4HANA*
- Best practices



4. Easy and safe migration

- Direct data transfer from SAP source systems (new with SAP S/4HANA 1909)
- Step-by-step guidance through the migration process
- Template files for each migration object
- 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



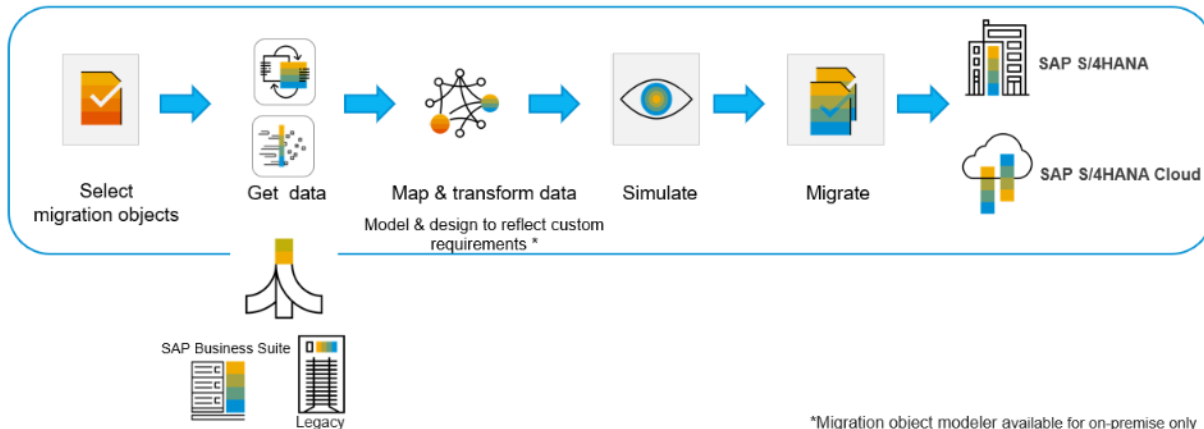
6. Outlook

- Improved functionality to plan, track and document the data migration
- Provide additional migration content
- Improve handling of error message

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.

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

- ▶ Video: [Migrate Data using Staging Tables](#)
- ▶ Video: [Migrate Data Directly from SAP System](#)
- ▶ Video: Migration Object Modeler <http://bit.ly/2BHmUHm>
- ▶ Community Topic Page <https://community.sap.com/topics/s4hana-migration-cockpit/>
- ▶ Click through tutorials [SAP S/4HANA migration cockpit](#)

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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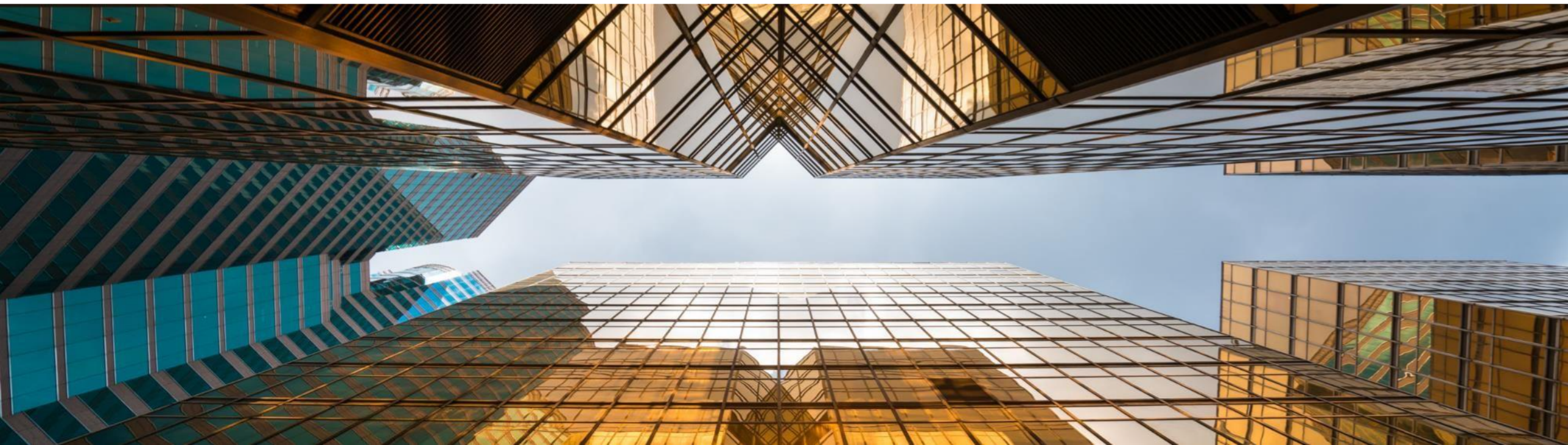
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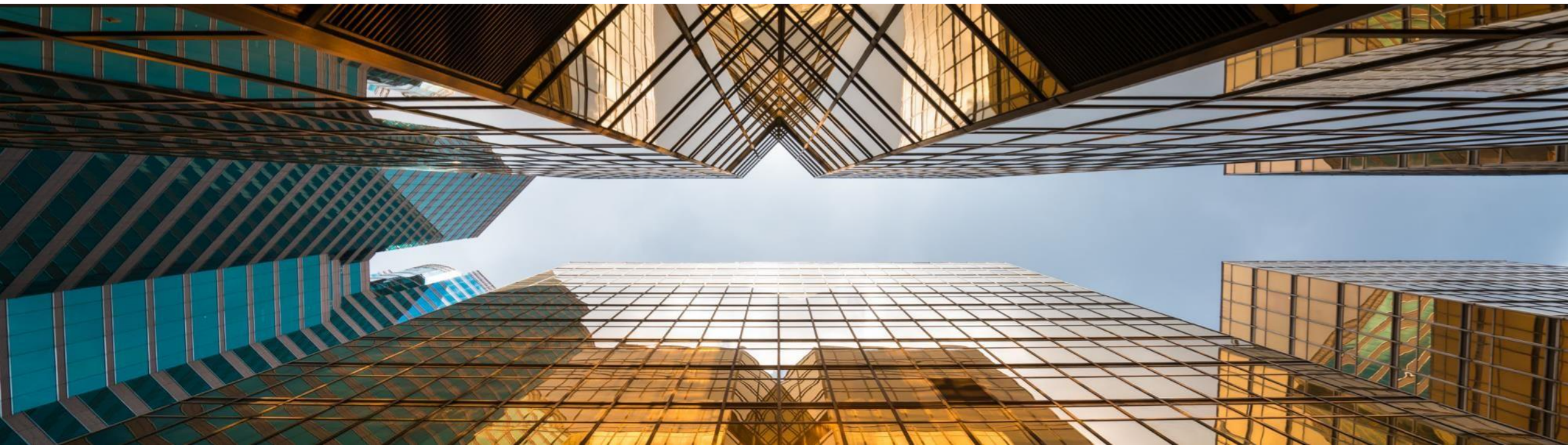
SAP S/4HANA migration cockpit

Appendix



SAP S/4HANA migration cockpit

Project methodology and setup



Key questions to understand your data migration requirements

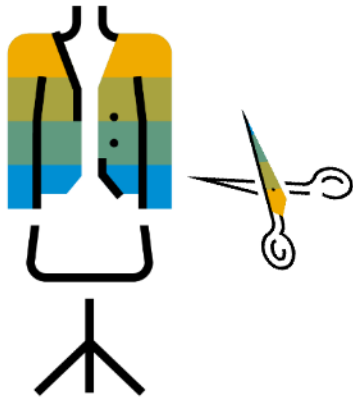
What deployment option is the target / receiver of the data?
SAP S/4HANA or SAP S/4HANA Cloud

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?

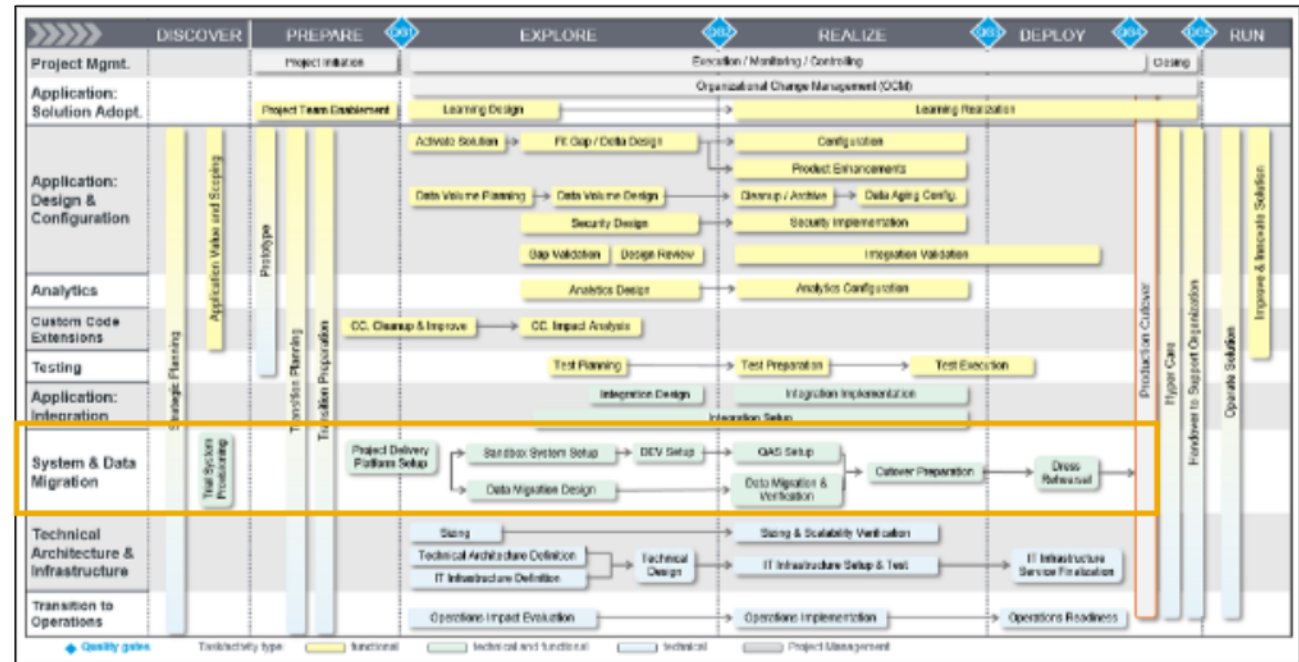


Data migration in SAP Activate roadmap



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

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

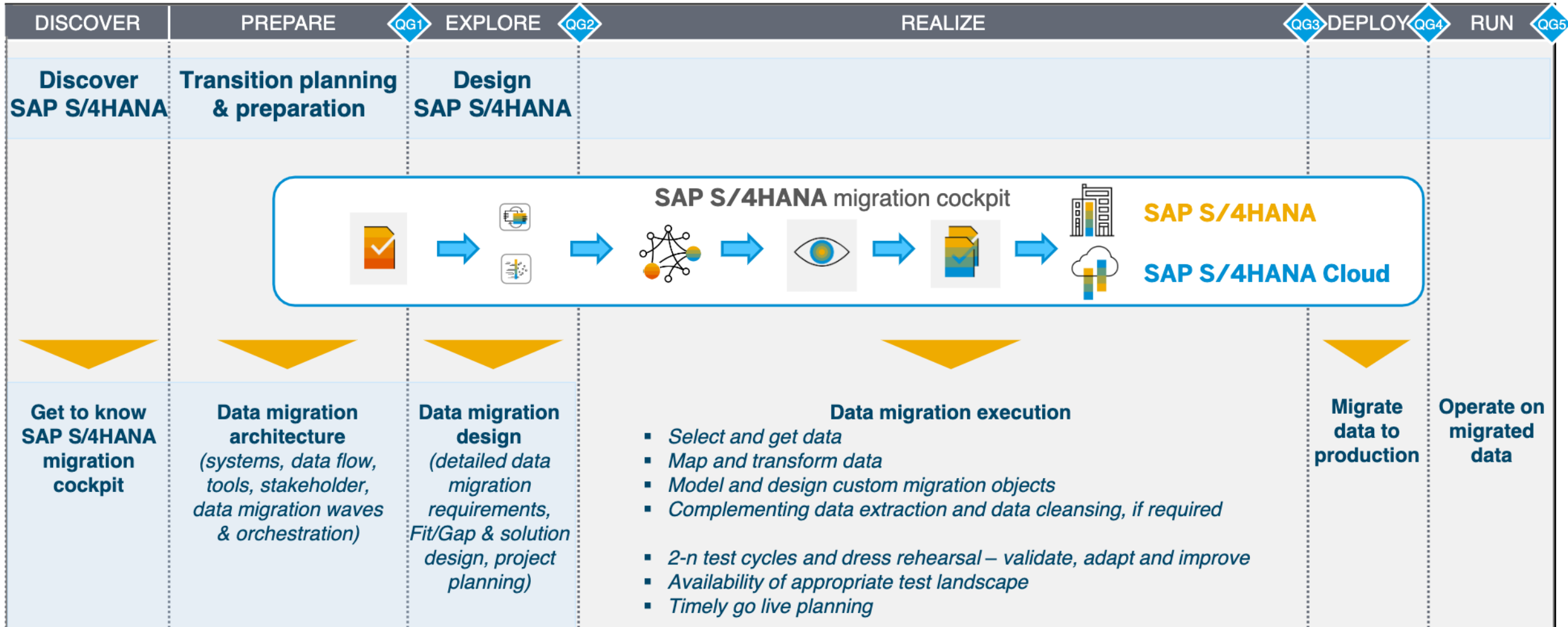


SAP Activate roadmap viewer

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

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*

- Drives the data migration project at customer side
- Responsible for all aspects affecting project setup and project planning
- ...

System administrator / Basis lead*

- Drives software download, software installation, installation of notes, system settings, etc.
- Responsible to fulfill technical prerequisites such as provision of test landscape, RFC connections, system access & authorizations etc.
- ...

Data migration expert

- Uses the SAP S/4HANA migration cockpit and complementing tools (if any)
- Responsible to execute data migration and track progress
- ...

Application / business contacts

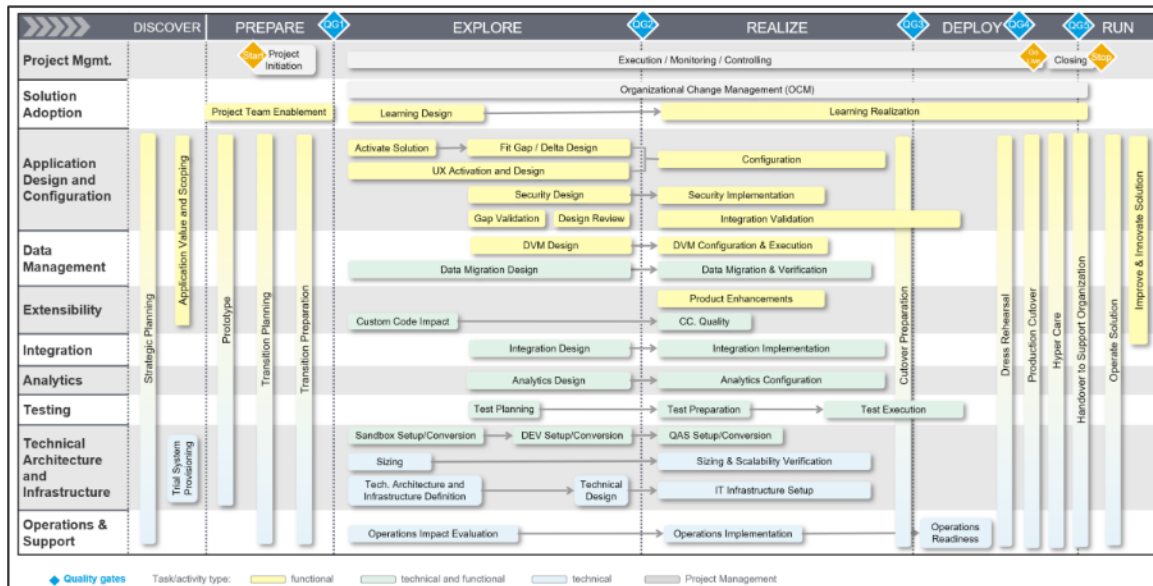
- Act as key contacts for all application-related questions and represent business departments
- Clarify business requirements, e.g. define selection criteria and mappings
- Conduct functional testing and validate migration result
- ...

* 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:

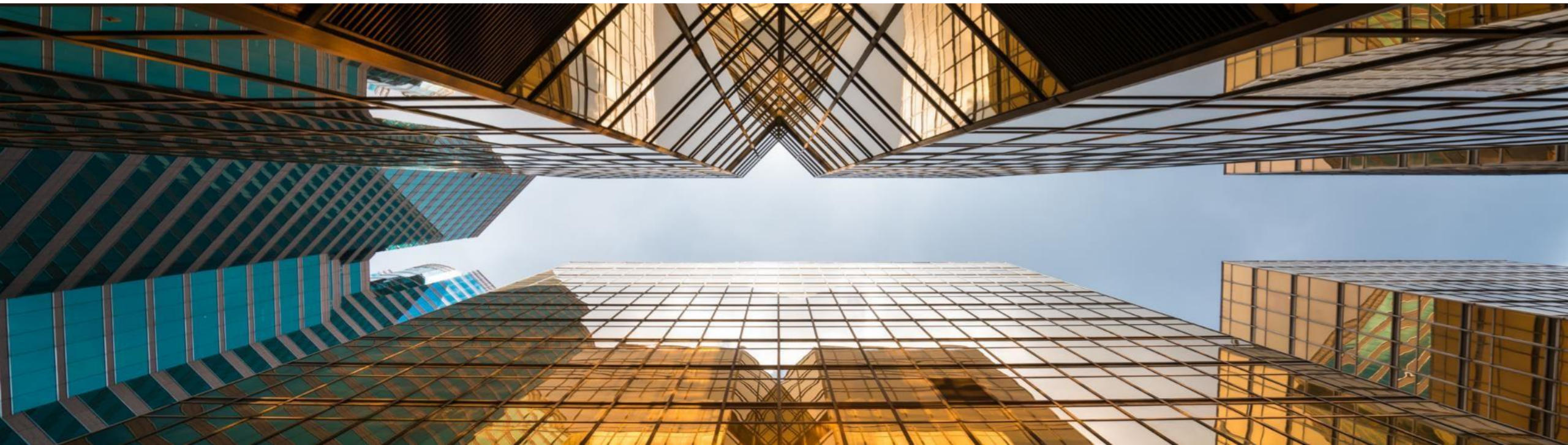
- www.sap-digital-business-services.com/offerings/sap-value-assurance
- www.sap.com/maxattention
- www.sap.com/activeattention

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

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

Appendix

Miscellaneous information



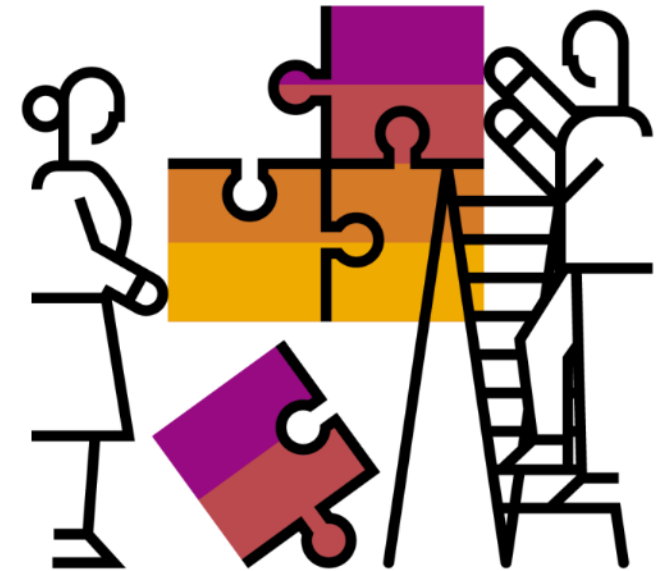
Additional SAP Offerings for Data Migration

Complementing data migration offerings in the SAP portfolio

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

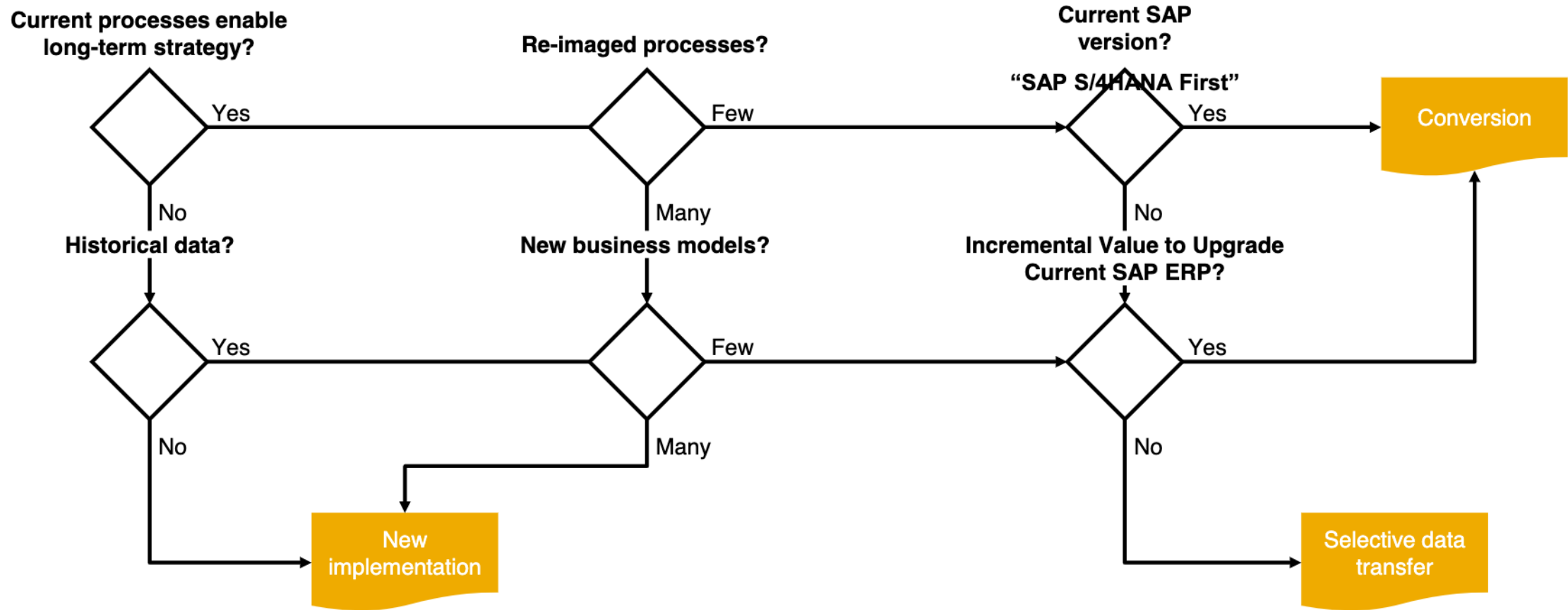
- **SAP Data Services** – Extract, transform, and load data, particularly for non-SAP sources and intense data quality improvements
- **SAP Advanced Data Migration by Syniti** for the orchestration of large data migration projects and a workflow-like tracking of activities

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

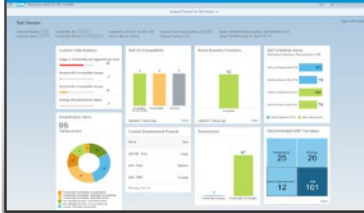
Recommended products



All SAP products

SAP Transformation Navigator

S/4HANA compatibility



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

SAP Readiness Check / SIC

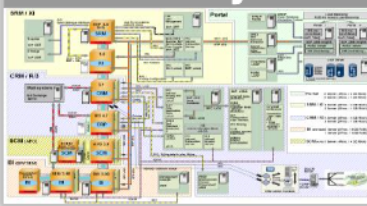
Improvement & innovation



SAP ERP

Pathfinder URL

Today



Adoption Starter

What product map does SAP recommend for me and how to I identify the value


How can I identify benefits and track them in the future?

How can I best prepare my transformation?

How do I create my detailed execution plan?

How can I generate immediate value in the meantime?

Tomorrow



SAP methodolgy
SAP best practices
Innovation discovery

SAP HANA SAP Cloud Platform URL's

Business value



All SAP products

Quality value assessment

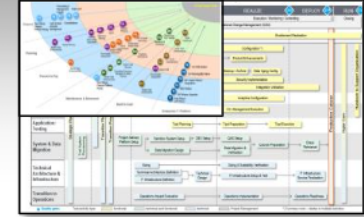
Business process improvement



SAP Business Suite I
SAP S/4HANA

BSR report

Planning the digital transformation



All SAP products

SAP roadmaps – interactive
SAP product roadmaps

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