

SAP S/4HANA Migration Cockpit

SAP S/4HANA 2021

June, 2022

PUBLIC

SAP S/4HANA Migration Cockpit

SAP S/4HANA Cloud, 2202

January, 2022



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

1/156

Disclaimer

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

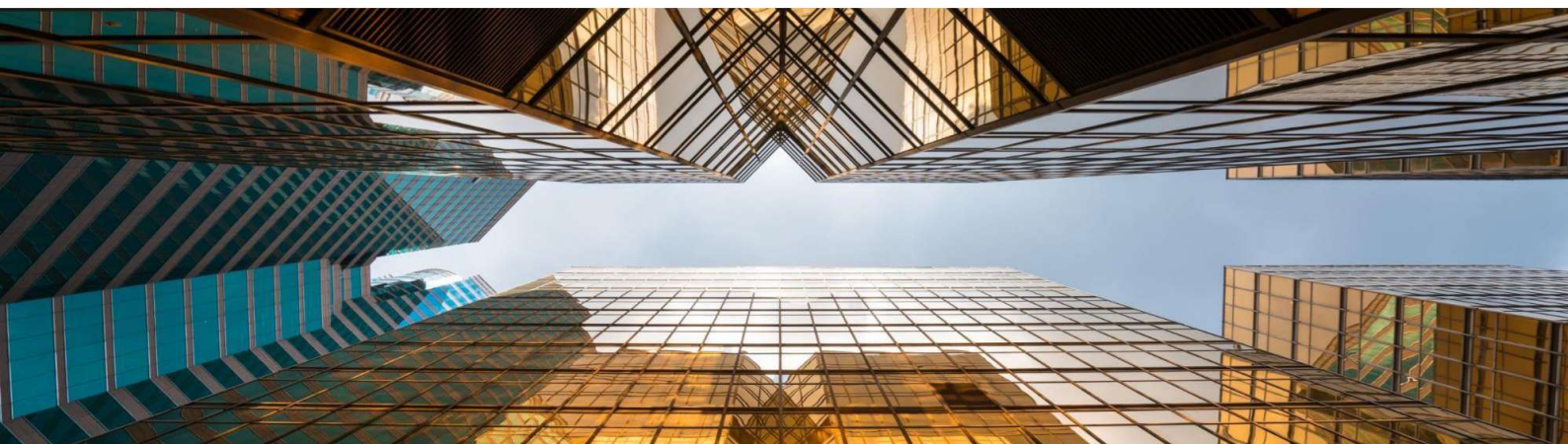
This presentation, or any related document and SAP's strategy and possible future developments, products and or platforms directions and functionality are all subject to change and may be changed by SAP at any time for any reason without notice. The information in this presentation is not a commitment,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

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

Agenda

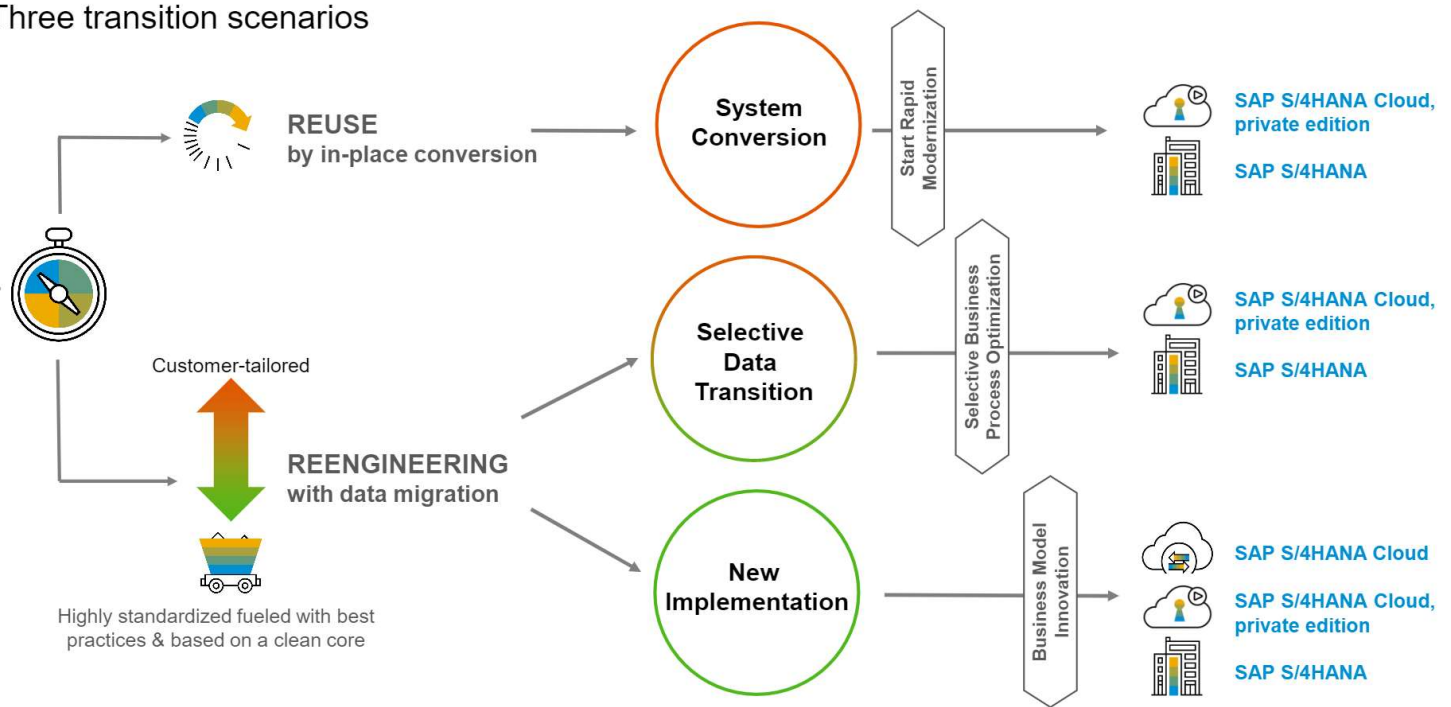
	Introduction – Your Way to SAP S/4HANA
	Overview - Functions and Process
	Different Migration Approaches
	<div><div>File/Staging</div><div>Direct Transfer</div><div>Direct Transfer Scenarios</div><div>Summary</div></div>
	Migration Objects
	Further Information
	Key Takeaways
	Appendix

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



Your Way to SAP S/4HANA in General

Three transition scenarios



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

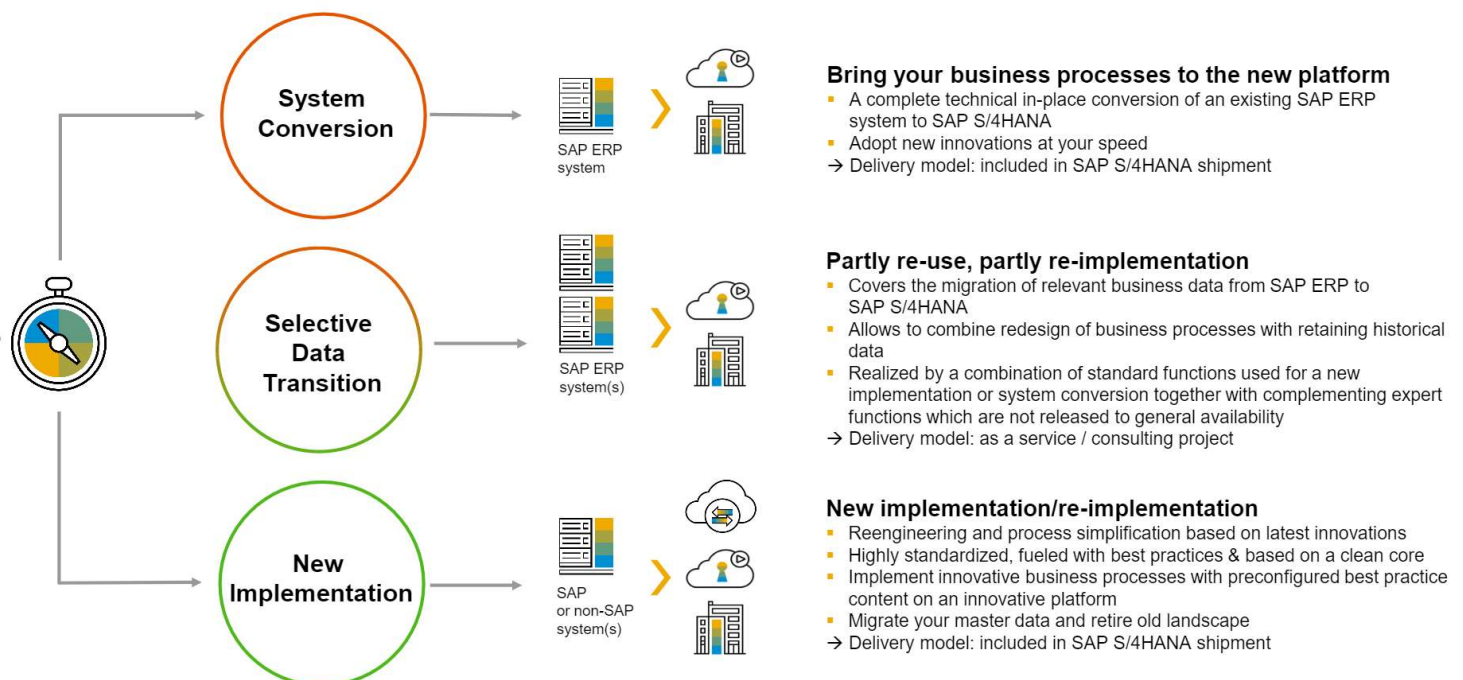

[Mapping your journey to SAP S/4HANA – a practical guide for senior IT leadership](https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html)

5

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

5/156

Your Way to SAP S/4HANA Detailed



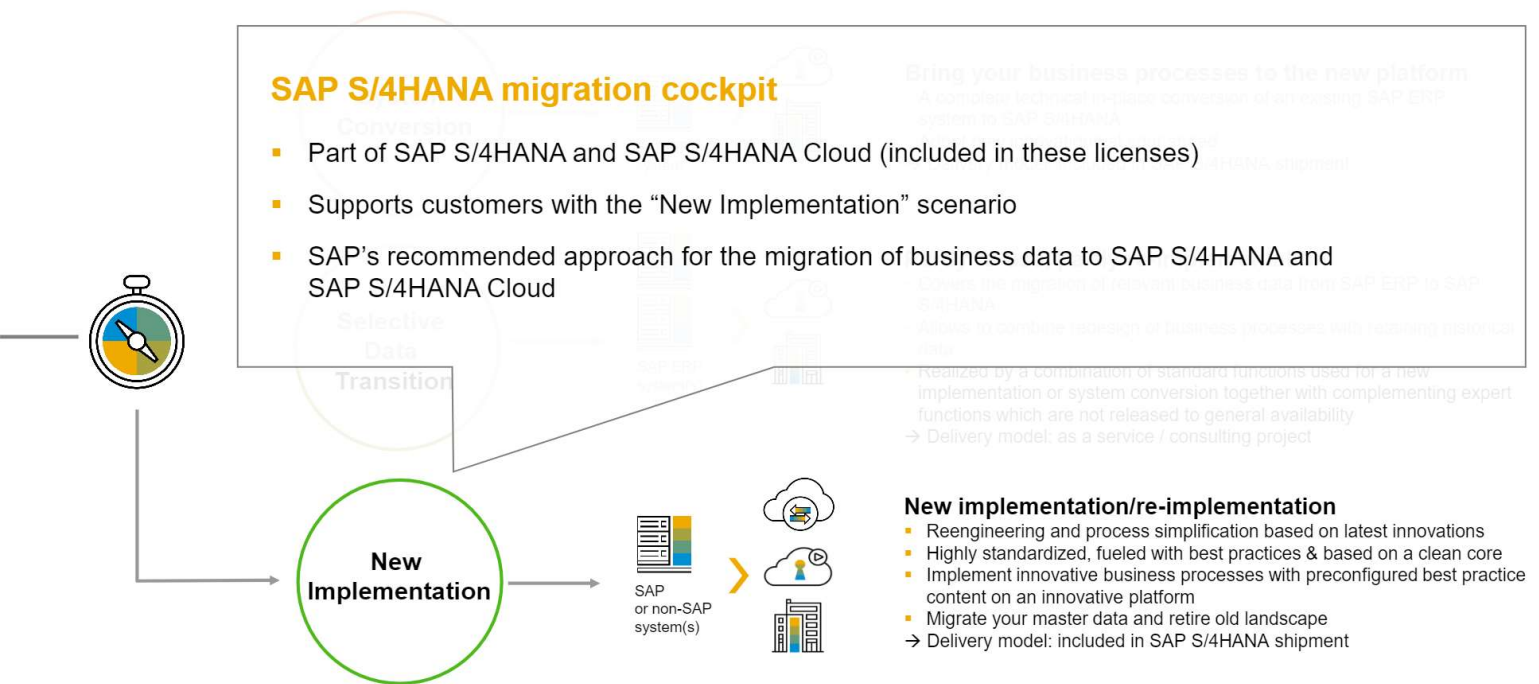
© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

6

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

6/156

Your Way to SAP S/4HANA



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

7

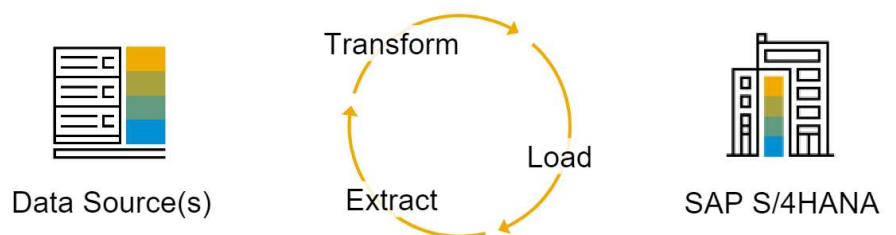
<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

7/156

Introduction to Data Migration

Your SAP S/4HANA migration requirements

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



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC



8

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

8/156

SAP S/4HANA Migration Cockpit

Overview – Functions and Process



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

9/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA Migration Cockpit at a Glance

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



Key facilitators

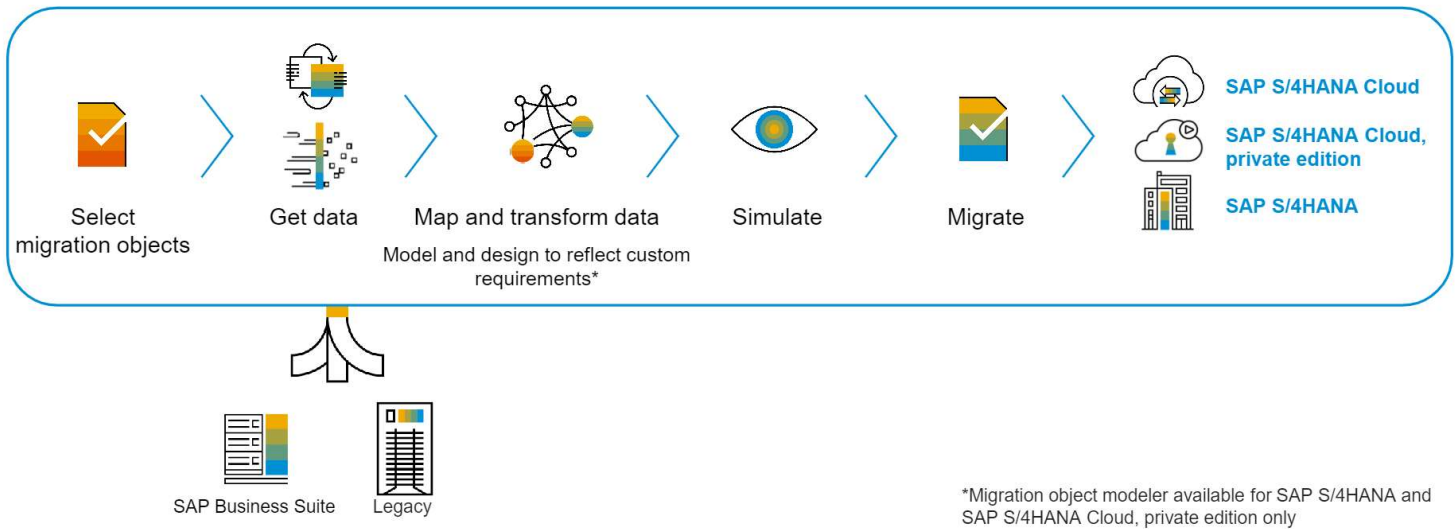
- Out-of-the-box, available for SAP S/4HANA and SAP S/4HANA Cloud, included in licenses
 - Preconfigured migration objects and mapping
 - No developer skills required
 - Step-by-step guidance through the migration process
 - Automatized cross-object value mapping
-
- **Migration object modeler** for custom requirements
 - Powerful and easy-to-use state-of-the-art modeling environment



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



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

11

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

11/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA Migration Cockpit

In detail: Preconfigured migration content



Key benefits

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

*Examples transactional data:

- FI: open items, balances
- LO: inventory

no historical data

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC


<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

12/156

SAP S/4HANA Migration Cockpit

In detail: Migration object modeler



Flexible and extendable



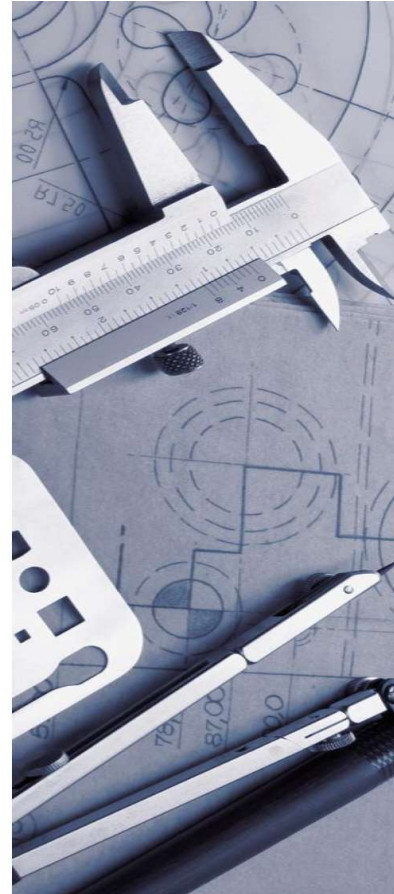
Easily integrate custom objects and enhancements into the migration project

- 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



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

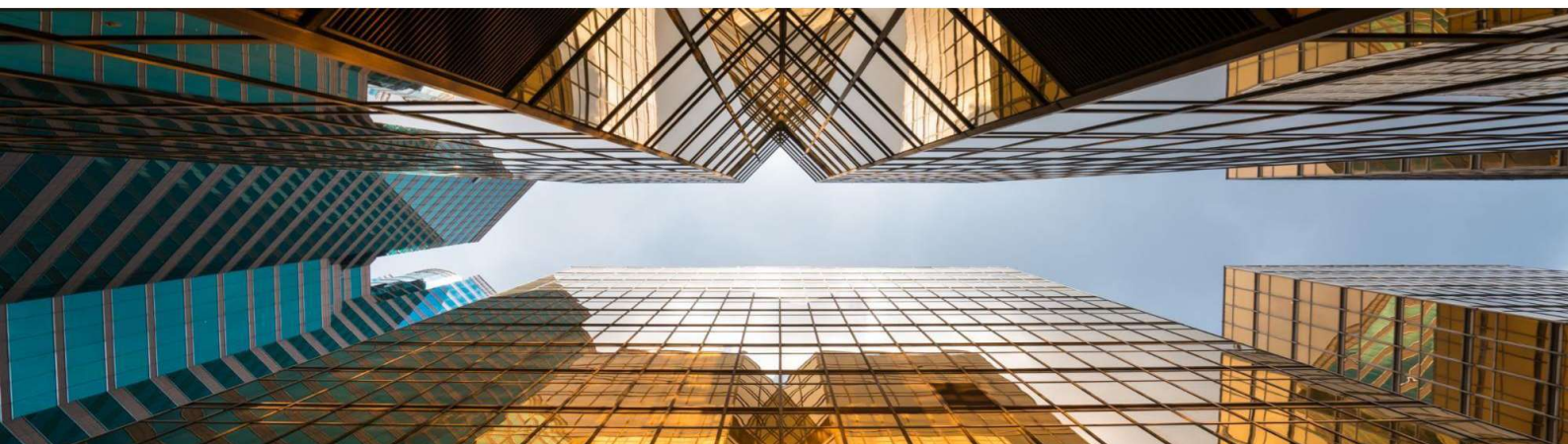


<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

13/156

SAP S/4HANA Migration Cockpit

Different Migration Approaches



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

14/156

SAP S/4HANA Migration Cockpit

Migration approaches until SAP S/4HANA 1909 - recap



Transfer data using files

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



Transfer data using Staging Tables

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



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

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

SAP S/4HANA Migration Cockpit

Migration approaches from SAP S/4HANA 2020 onwards



Migrate Data Using Staging Tables

Staging tables are created automatically (either locally or in a remote system)

You can populate Staging Tables with business data

- Using XML template files
- Using SAP or third-party ETL tools

And then transfer data from the staging tables to the target SAP S/4HANA system



Migrate Data Directly from SAP System

Transfer data from SAP ERP source system to target SAP S/4HANA system

Access source system through RFC connection

Supports data migration scenarios from other applications

for example from SAP Apparel and Footwear to SAP S/4HANA for fashion and vertical business, SAP Extended Warehouse Management (SAP EWM) to decentralized EWM

SAP S/4HANA Migration Cockpit

Migrate Data Using Staging Tables



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

17/156

27/06/2022 14:07

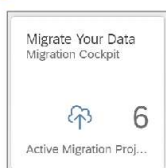
SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA 2021

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

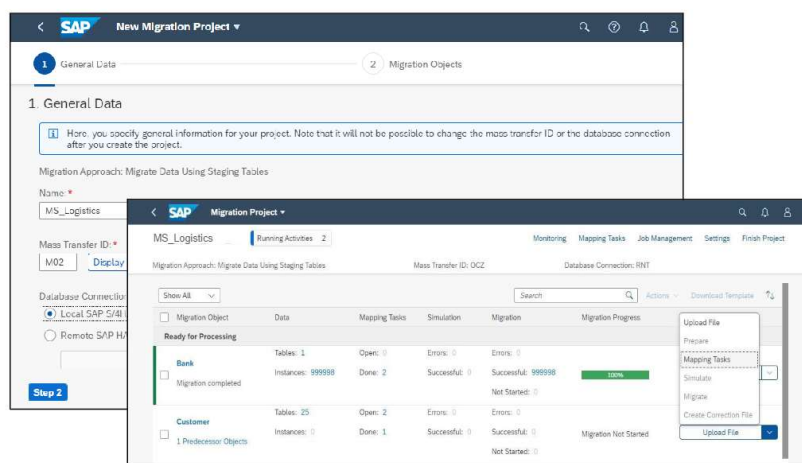


Fiori App Migrate Your Data



Excel XML template files
or other tools of choice

Process & content



Data load



API based



SAP S/4HANA Cloud

SAP S/4HANA Cloud,
private edition

SAP S/4HANA

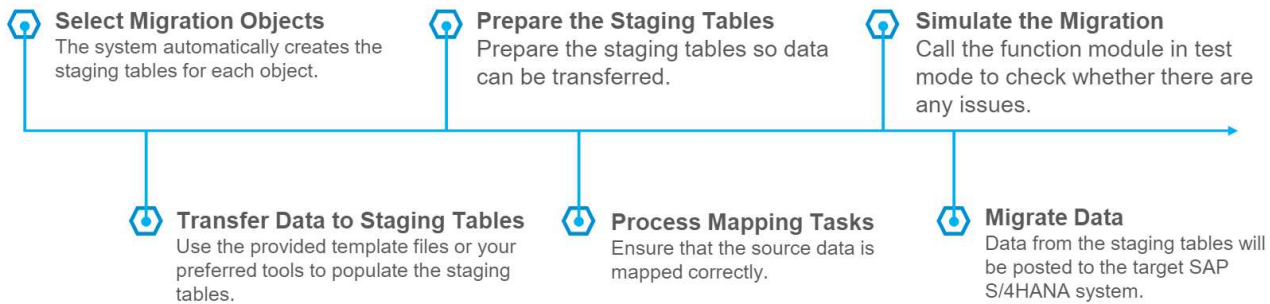
SAP S/4HANA 2021: 176+



Migration objects

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

Process flow



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

Populate data



You can fill the staging tables by using:



XML files

or



your preferred ETL tools

Your choice depends on:

- Deployment option (SAP S/4HANA or SAP S/4HANA Cloud)
- System set up (local SAP S/4HANA database schema or remote SAP HANA database schema)
- Licenses you need for the particular ETL tool

We therefore recommend that you look at the following materials and decide how you would like to populate the staging tables:

- [Methods for populating the staging tables Part 1](#)
- [KBA 2733253 FAQ Migrate Data Using Staging Tables](#)
- [Matrix – Data Load into Staging Tables](#)

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



Create a new project

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

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

- Migrate data directly from SAP system
- Migrate data using staging tables

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



Create new project – 1. General data

Specify details for your migration project.

Local SAP S/4HANA database

- System will generate the 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

- The system will generate the staging Tables in a remote SAP HANA DB schema
- Prerequisite: a 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 – 2. Development package



Specify details for your migration project.

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

23

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

23/156

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

Transport functionality – Basic facts



- The transport functionality used in the migration cockpit is designed to transport content from one system to another.
- The functionality is available with **SAP S/4HANA 2021** onwards for the approach *Migrate Data Using Staging Tables*.
- You assign a development package while creating a project (SAP Fiori app). This assignment cannot be changed later.
- You can add projects, migration objects, and rules to a transport request in transaction *LTMOM*.
- It is not possible to create or edit projects in non-modifiable systems, they can only be executed. Usually, non-modifiable systems are quality and production systems. For more information about non-modifiable systems, see slide 12 in [Transport Concept - Migrate Data Using Staging Tables](#).



More details in [SAP Note 3104790](#)



Note that instances already uploaded to the staging tables will not be transported.

Only the definition of a rule, fixed value, translation object or variable is added to a transport request and transported. No values, for example mapping values, are included.

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

24

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

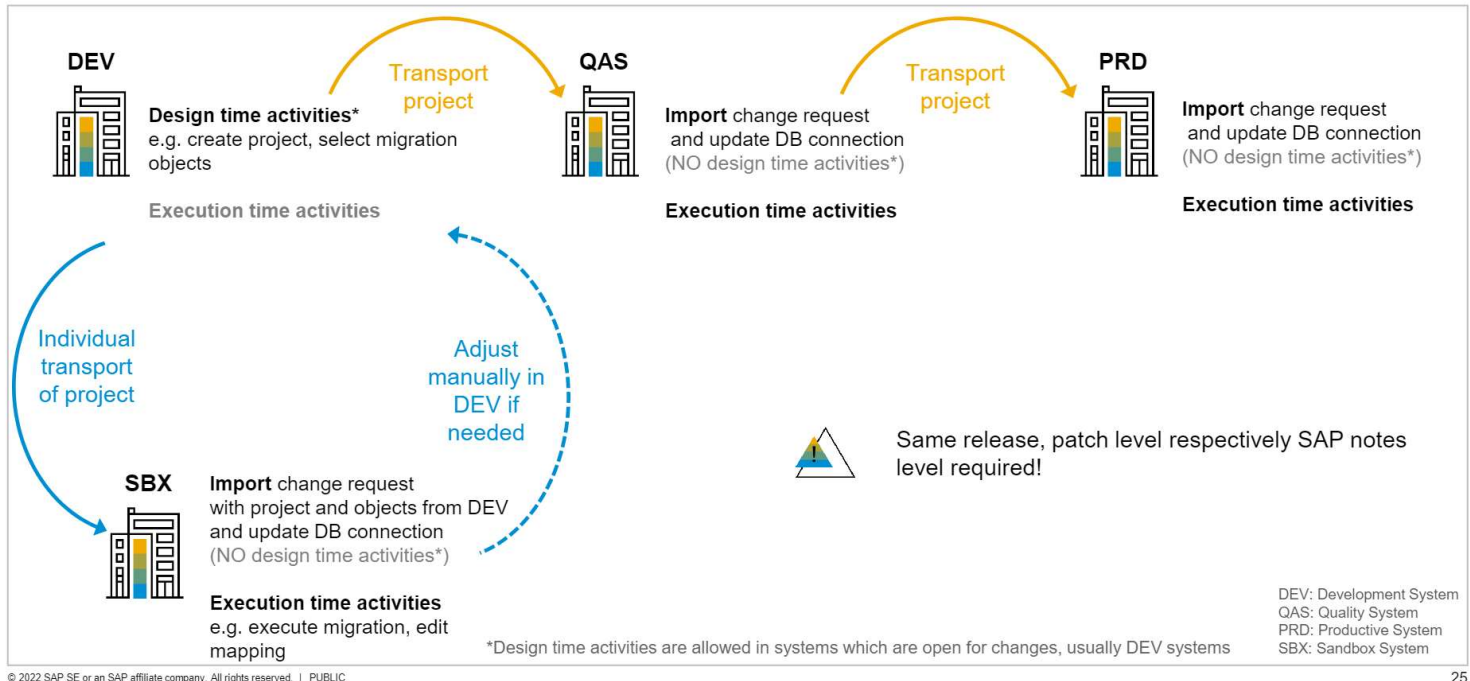
24/156

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

Transport Functionality – Concept



Separation between **design time** and **execution time** activities



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

25/156

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

Create new project – 3. Migration objects



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

The screenshot shows the 'Create New Project' screen in the SAP S/4HANA Migration Cockpit, specifically step 3: Migration Objects. The screen is divided into two main sections: 'Available Migration Objects' and 'Selected Migration Objects'.

Available Migration Objects:

Name	Predecessor	Documentation
<input type="checkbox"/> DG - Assessment for packaged product	1	Documentation
<input type="checkbox"/> DG - Assessment for unpackaged product (content-based)	2	Documentation
<input type="checkbox"/> DG - Assessment for unpackaged product (text-based)	1	Documentation
<input checked="" type="checkbox"/> Product	2	Documentation
<input type="checkbox"/> Product - extend existing rec by new org levels (deprecated)	3	Documentation
<input checked="" type="checkbox"/> Product - extend existing record by new org levels	3	Documentation
<input type="checkbox"/> Product - extend existing record with long text	1	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
<input type="checkbox"/> PSS - Product compliance info	3	Documentation

Selected Migration Objects:

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

A yellow callout box highlights the 'Review' button and the 'Select migration objects - click on button' instruction. Below it, a text box says: 'To continue with next step, click on "Review"'. The 'Review' button is visible at the bottom of the screen.

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

26/156

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.

1. General Data

Migration Approach: Migrate Data Using Staging Tables
 Name: New Migration Project
 Mass Transfer ID: OCJ
 Database Connection: Local SAP S/4HANA Database Schema [Edit](#)

2. Development Package

Development Package: \$TMP [Edit](#)

3. Migration Objects

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

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

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.

Migration Project

Running Activities: 0

[Monitoring](#) [Mapping Tasks](#) [Job Management](#) [Settings](#) [Finish Project](#)

Show All

Migration Object	Data	Tables	Instances
<input type="checkbox"/> Product	Tables: 27 Instances: 0		
<input type="checkbox"/> Product - extend existing record by new org levels	Tables: 17 Instances: 0		
1 Predecessor Objects			
<input type="checkbox"/> Product consumption	Tables: 3 Instances: 0	Errors: 0 Open: 0 Done: 0	Errors: 0 Successful: 0 Not Started: 0
1 Predecessor Objects			

Migration Not Started [Upload File](#)

Buttons for quick access:

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

See more details in application help.

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



Trigger actions using 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 shows the 'Migration Project' interface with a table of migration objects. A callout box highlights the 'Action' column for the 'Product' object, showing a dropdown menu with options: 'Upload File', 'Download Template', 'Prepare', 'Mapping Tasks', 'Simulate', 'Migrate', and 'Create Correction File'. A text box explains: 'The system proposes the next action to be performed. For example "Upload File" - here, you start the action for **one object only**.'

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input type="checkbox"/> Product	Tables: 27 Instances: 0	Errors: 0 Open: 4 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File, Download Template, Prepare, Mapping Tasks, Simulate, Migrate, Create Correction File
<input type="checkbox"/> Product - extend existing record by new org levels	Tables: 17 Instances: 0					
<input type="checkbox"/> 1 Predecessor Objects						
<input type="checkbox"/> Product consumption	Tables: 3 Instances: 0	Errors: 0 Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	
<input type="checkbox"/> 1 Predecessor Objects						

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



Download XML templates for multiple migration objects

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

The screenshot shows the 'Migration Project' interface with a table of migration objects. A callout box highlights the 'Download Template' button in the 'Action' column. A text box explains: 'You can download the template for several migration objects by selecting them and then clicking on *Download Template*.'

Another callout box highlights the 'Monitoring' tab in the top navigation bar, with a text box explaining: 'A messages toast appears – check *Monitoring* for file download'.

A third callout box highlights the 'Creating file. Navigate to "Monitoring" screen to download file.' message.

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input checked="" type="checkbox"/> Bank	Tables: 1 Instances: 0	Errors: 0 Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
<input checked="" type="checkbox"/> CO - Activity type	Tables: 1 Instances: 0	Errors: 0 Open: 1 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
<input checked="" type="checkbox"/> CO - Cost center	Tables: 1 Instances: 0	Errors: 0 Open: 1 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
<input type="checkbox"/> 1 Predecessor Objects						
<input type="checkbox"/> Product	Tables: 27 Instances: 0					
<input type="checkbox"/> 1 Predecessor Objects						

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



Download XML templates for migration objects

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

On the *Monitoring* screen, for the activity "Download File Template" choose "Download File". You can save these file(s) and populate them with your legacy data.

Activity	Object Type/Name	Started By/On	Active Jobs	Additional Information	Options
<input checked="" type="checkbox"/> Download Template File Completed	Migration Project Demo_Project	New Status 2022.06.27 14:07	1	Template File: EN_Cost_center.xml	Download File Show Messages
<input checked="" type="checkbox"/> Prepare Migration Object Completed	Migration Object CO - Profit center	New Status 2022.06.27 14:07	1	Template File: EN_Cost_center.xml	Download File Show Messages
<input checked="" type="checkbox"/> Copy Migration Object to Project Completed	Migration Object CO - Profit center	New Status 2022.06.27 14:07	1	Template File: EN_Cost_center.xml	
<input checked="" type="checkbox"/> Prepare Project Completed	Migration Project Demo_Project	New Status 2022.06.27 14:07	1	Template File: EN_Cost_center.xml	
<input checked="" type="checkbox"/> Prepare Migration Object Completed	Migration Object CO - Activity type	New Status 2022.06.27 14:07	1	Template File: EN_Cost_center.xml	

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

31

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

31/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

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



Populate the XML template file with data

In the XML template files, check the introduction worksheet for information about how to fill the template file.

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

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

Source Data for Migration Object: CO - Cost center						
Version SAPSCORE 123 - 08.02.2021 © Copyright SAP SE. All rights reserved.						
S_CSKS						
KOSTL	DATAB	DATBI	LANGU	KTEXT	LTEXT	VERAK_USER
ETE;80;0;C;80;0	EDA;8;0;D;8;0	EDA;8;0;D;8;0	ETE;80;0;C;80;0	ETE;20;0;C;20;0	ETE;40;0;C;40;0	ETE;80;0;C;80;0
Main data						
Cost center*	Valid from*	Valid to*	Language in which texts are saved	Cost center name*	Description*	User responsible
Key uniquely identifying a cost center. Type: Text Length: 80	When you create an object, the beginning date to which object is valid is defined here. Type: Date	When you create an object, you use the ending date to define as of when the object is valid. Type: Date	Language in which cost center texts are saved. If the language is not filled, logon language is used as default to save the cost center text.	General description of the object. The cost center name is used for online displays and evaluations that do not have enough space for the cost center description.	The cost center description is used for online displays and evaluations that have sufficient space. If the master record does not contain a cost center description.	In this field, you can enter the user ID of the person responsible for the cost center. This user ID is stored in the SAP user master record.

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

32

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

32/156

SAP S/4HANA Migration Cockpit – XML Template



Important information

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



Recommendations

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

Migration file template for Bank

Field List for Migration Object: Bank						
Version S4CORE 104 - 15.08.2019 © Copyright SAP SE. All rights reserved.						
Sheet Name	Group Name	Field Description	Importance	Type	Length	
Bank Master (mandatory)						
Key	Bank country 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 - 15.08.2019 © Copyright SAP SE. All rights reserved.				
S_BANKA	BANKL	BANKA	PROVZ	STRAS
Key				
Bank country key*		Bank key*	Name of bank*	Region (State, Province, Country)
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			Type: Text Length: 60	House number and street as part of the address.
				Type: Text Length: 35

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



Migration objects listed in *Migration Project* overview screen

The migration cockpit provides details in the overview screen.

Migration Project						
Demo_Project Running Activities 0 Activities with Error 21						
Monitoring Mapping Tasks Job Management Settings Finish Project						
Show All	Search					
				Messages	Actions	Download Template
Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input type="checkbox"/> Bank	Tables: 1 Instances: 206	Open: 0 Done: 3	Errors: 0 Successful: 0	Errors: 7 Successful: 199 Not Started: 0	95.0%	Create Correction File
Migration completed with errors						
<input type="checkbox"/> CO - Activity type	Tables: 1 Instances: 10	Open: 0 Done: 7	Errors: 0 Successful: 10	Errors: 0 Successful: 10		Upload File
Migration completed						
<input type="checkbox"/> CO - Cost center	Tables: 1 Instances: 6	Open: 0 Done: 10	Errors: 0 Successful: 10	Errors: 0 Successful: 10		
Migration completed with errors						
<input type="checkbox"/> CO - Profit center	Tables: 2 Instances: 5	Open: 0 Done: 6	Errors: 0 Successful: 5	Errors: 0 Successful: 5 Not Started: 5	Migration Not Started	Migrate
Simulation completed						
<input type="checkbox"/> Product	Tables: 15 Instances: 0	Open: 0 Done: 10	Errors: 0 Successful: 0	Errors: 0 Successful: 0 Not Started: 0	Migration Not Started	Upload File
2 Predecessor Objects						
<input type="checkbox"/> Supplier	Tables: 24 Instances: 1	Open: 1 Done: 1	Errors: 0 Successful: 1	Errors: 0 Successful: 1		

On the *Migration Project* overview screen, the progress bar indicates the status of your single migration object.

You can drill down into numbers to get details on tables/tasks/instance level.

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



Migration object tables screen

- Migration Cockpit driven data operations for staging tables
 - Reset Table Settings. To unlock the staging tables and reset to 0 the number of instances simulated successfully and the number of instances for which errors exists. (See more details in next slide)
 - Delete all records. Note: usually, already migrated instances will be deleted from the staging tables. However, if the system is not released for changes (e.g. in the production system), deletion is not possible and results in an error message.
 - Adjust Structure. To reflect the latest version of the migration object provided by SAP (e.g. if the staging tables were adjusted or dropped by error)

Tables (1)				Files (5)	
<div><div><div>Search</div><div></div></div><div><div>Reset Table Settings</div><div>Delete All Records</div><div>Adjust Structure</div></div></div>					
<input checked="" type="checkbox"/>	Name	Technical Name	Technical ID	Rows in Staging Table	Table Status
<input checked="" type="checkbox"/>	Bank Master	S_BNKA	/LTD/DSQKM017696	4	<div><div>OK</div><div></div></div>

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



Migration object tables screen – reset table settings

- Reset Table Settings:**
The current transfer status will be reset. This unlocks the staging tables so that you can adjust data again (freeze triggers will be deleted).
- For example, to unlock the tables after a user cancelled jobs manually, or if an unexpected event occurred.

Tables (1)

Files (5)

Search

Reset Table Settings

Delete All Records

Adjust Structure

<input checked="" type="checkbox"/>	Name	Technical Name	Technical ID	Rows in Staging Table	Table Status
<input checked="" type="checkbox"/>	Bank Master	S_BNKA	/LTD/DSQKM017696	4	OK

- On the Migration Project screen, the system resets the number of instances that have been simulated successfully and the number of instances for which errors exists to 0. The number of migrated instances is not adjusted.

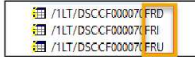
SAP S/4HANA Migration Cockpit – Migrate Data Using Staging Tables

Details – Freeze triggers



Freeze triggers prevent that during the transfer of data, changes can be done on any data in the staging table

- In the database, you can see three triggers for each staging table:



- If you want to insert data in the staging table, when the freeze triggers are set, you will get the following database error:

```
Could not execute 'insert into "DB_ACCESSER"."/1LT/DSCCF000067" ...' in 237 ms 710 us .
SAP DBTech JDBC: [12000]: user-defined error: "DB_ACCESSER"."/1LT/DSCCF000067FRI": line 2 col 145 (at pos
282): [12000] (range 3) user-defined error exception: no table change allowed
```

To delete the freeze triggers, you have two options:

1. Finish the transfer: after transfer is finished the freeze triggers will automatically be dropped.
2. Use the *Reset Table Settings* button in the Migration Object Tables Screen.

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.

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

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

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

Select: Country/Region Key

Country/Region Key: _____

Name (Short): _____

Maximum Number of Results: 500

Items (249)

Country/Region Key	Name (Short)
AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla

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



Download mapping XML templates

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

Mapping template files are available for each mapping task. Select mapping task – click “Download Mapping Templates”. You can use these template files instead of specifying the values manually. If files are filled, you can upload the values by clicking on “Upload Values”.

Select Mapping Tasks

Search

Selected: 2

- ☐ Mapping Task
- ☒ Mapping of Bank Key
- ☒ Mapping of Country/Region Key
- ☐ Mapping of Regional Code

Download Cancel

File Explorer: C:\Users\Downloads

Files:

- Source data for Bank (3).xml (XML Documents, 52 KB)
- Mapping templates - Demo_Project.zip (WinRAR ZIP archive, 5 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.

AutoSave

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

R3C1

Signature

Version 0030 © Copyright SAP SE. All rights reserved.

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

Signature Data

Display Settings

SAP S/4HANA Migration Cockpit - Mapping Tasks

Handling of insert/delete mapping value



Note that for SAP S/4HANA 2020 it is not possible to delete all mapping values.

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC



Background & Tip

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

- In Fiori App this is not possible right now.

Procedure:

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



Details in [KBAs 3003068](#)
[3076466](#) and [3075948](#)

41

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

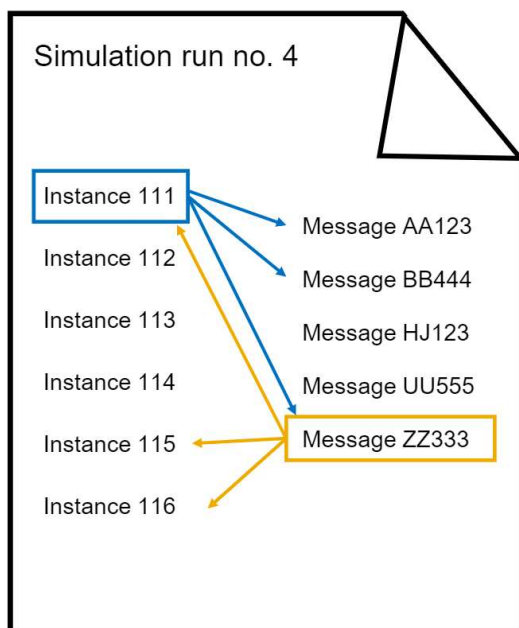
41/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

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

Different message analysis capabilities



View: Which messages occurred for one instance?

View: Which instances are relevant for one message?

View: which messages occurred for an activity?



Simulation run no. 1

Simulation run no. 2

Simulation run no. 3

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

42

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

42/156

SAP S/4HANA Migration Cockpit – Error Handling

Different ways to check error messages - overview

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

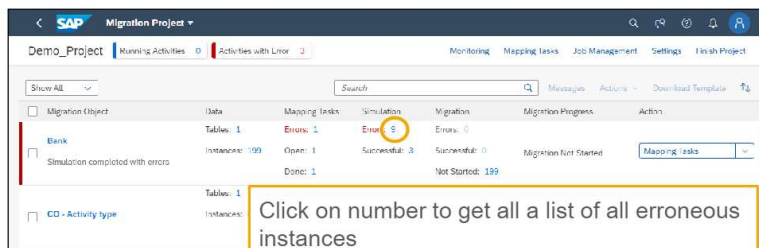


Background & Tip

- Different possibilities to analyze (error) messages

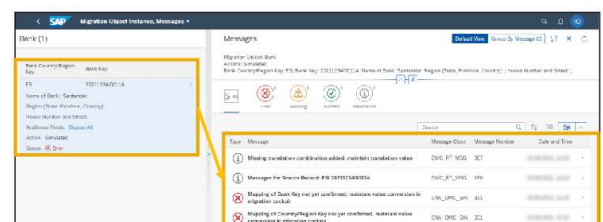
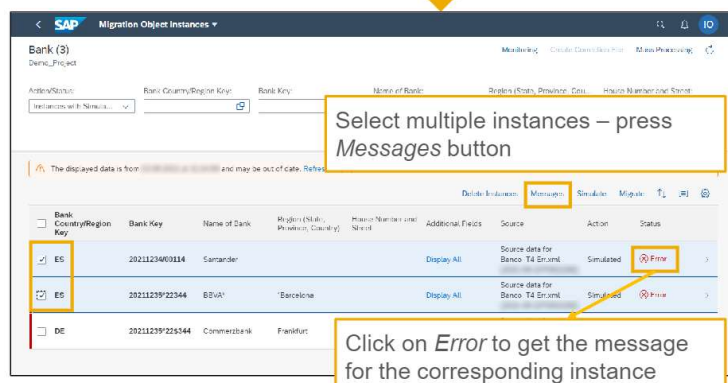
SAP S/4HANA Migration Cockpit – Error Handling

1. Messages on migration object instance level



Tip

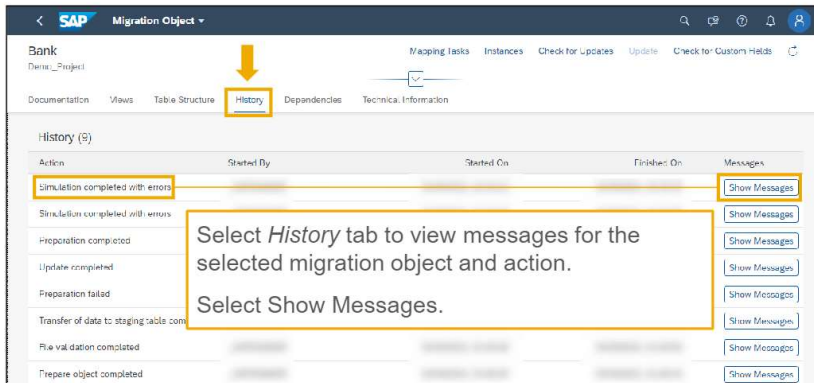
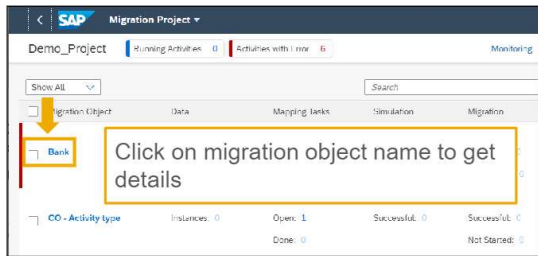
- Free text search
- Group, sort
- Download to MS Excel





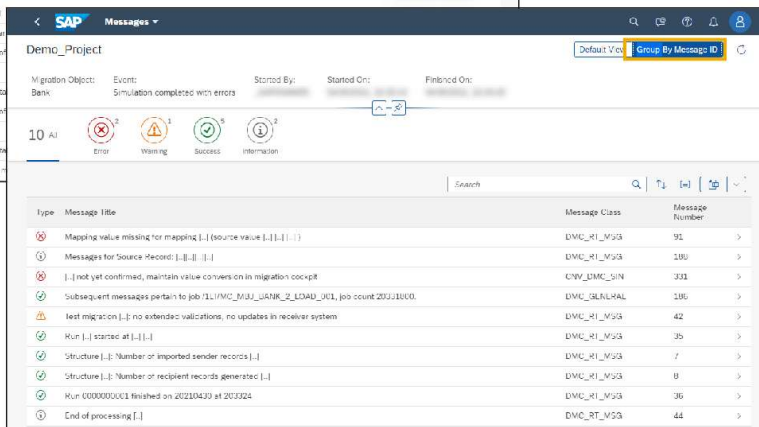
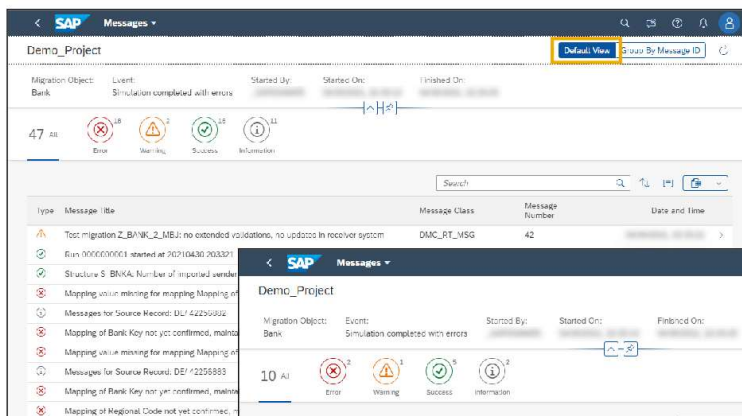
SAP S/4HANA Migration Cockpit – Error Handling

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



SAP S/4HANA Migration Cockpit – Error Handling

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



Tip

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

SAP S/4HANA Migration Cockpit – Error Handling

3. Messages on migration project level



Tip

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

Select relevant migration objects – press **Messages** button

Toggle between migration objects

Forward navigation to see all instances directly

Find numbers of instances with this message

Forward navigation to instance list for further processing

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

47

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

47/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

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

Instance-based deletion through mass processing



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

Press button **Mass Processing**

Use filter options to select relevant instances

Review chosen instances before simulation, migration or deletion

To start mass processing of instances (Simulate, Migrate, Delete) - press button **Step 2**

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

48

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

48/156

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.

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.

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

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

Finish project - data retention time

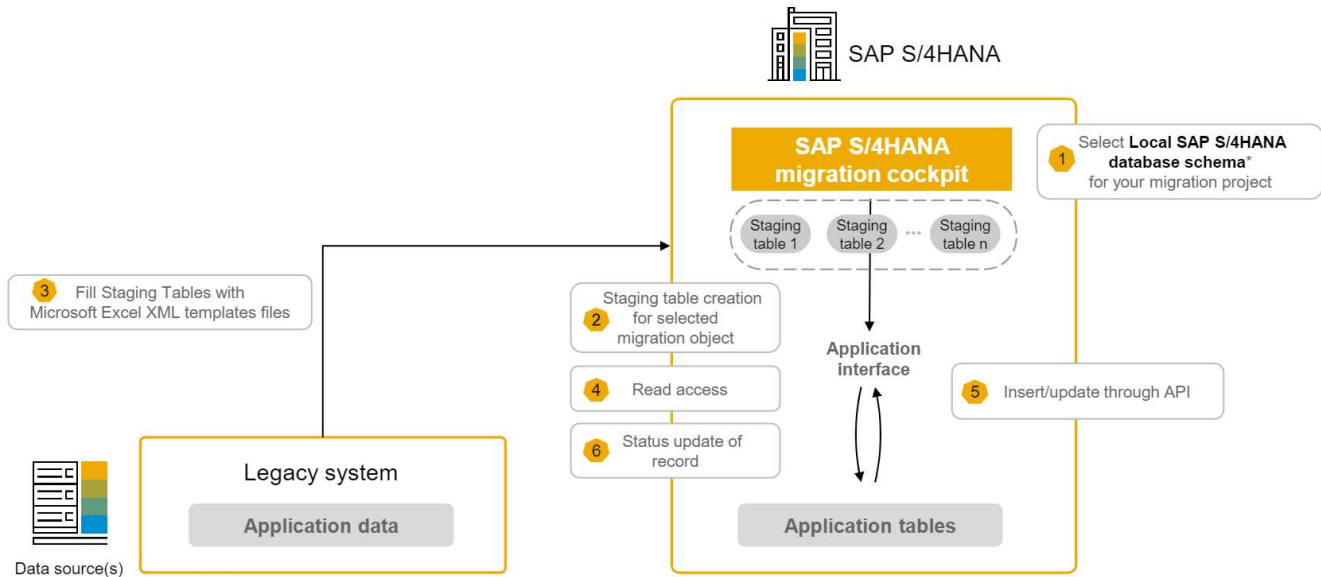


When you set the status of a project to “Finished” you can specify a data retention period.

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

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

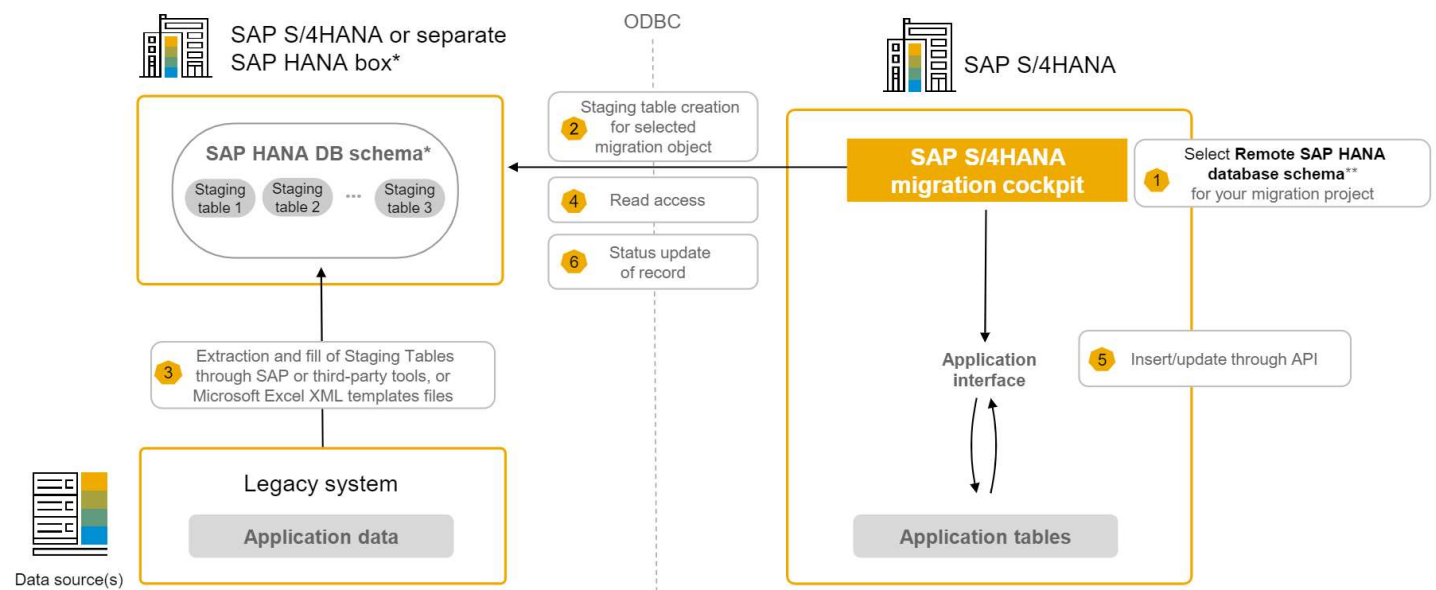
System setup SAP S/4HANA local SAP S/4HANA database schema



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

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

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



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

** Prerequisite: established secondary database connection

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

Tips & tricks



How can I populate the staging tables?



To extract data from the source systems you can use either SAP tools or third-party tools. The staging tables have to be filled in a ready-to-load data format, i.e. the format expected by SAP S/4HANA.

- [SAP Smart Data Integration to fill staging tables](#) from Excel files (more details in SAP Note [2091095](#))
- [ABAP to fill staging tables](#) from an SAP ERP 6.0 system
- [SAP Data Services to fill staging tables](#) from an external database
- [SAP Agile Data Preparation \(ADP\)](#)
- [Third-party tools to fill staging tables](#)
- [Manual entry in SAP HANA studio to fill staging tables](#) (using SQL statement)

Note: ETL Third-party or SAP Tools to populate the staging tables can be used for the **remote SAP HANA database schema**. Additional costs may apply when using the remote SAP HANA database schema option and ETL Tools to fill the staging tables.

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

How to fill Staging Tables – blogs in SAP community



Good to know

- To fill the staging tables, you can either use an ETL tool or fill the data directly on the SAP HANA database. You can also use *SAP HANA Studio* to fill the data.
- There are several blogs listed below that explain the different methods to load data into the staging tables:
 - Part 1: [Migrate your Data – Migration Cockpit, Migrate data using staging tables and methods for populating the staging tables with data \(from SAP S/4HANA 2020, SAP S/4HANA Cloud 2008, Fiori UI\)](#)
 - Part 1: [Migrating data using staging tables and methods for populating the staging tables \(Old WebDynpro UI\)](#)
 - Part 2: [Using SAP data services to load data to the staging tables](#)
 - Part 3: [Using SAP HANA Smart Data Integration \(SDI\) to load data to the staging tables](#)
 - Part 4: [Using SAP HANA Studio to load data to the staging tables](#)
 - [SAP S/4HANA migration cockpit – creating and using synonyms for renaming staging tables](#)

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

Example: Filling the staging tables using the SAP HANA studio



Main Steps

- Create your flat file (.csv, .xls or .xlsx)
- In the SAP HANA studio:
 1. Choose *File* and then *Import* from the menu
 2. Select *Data from Local File* option
 3. Select *target system* where you want to load data
 4. Select the *source file* to upload
 5. Enter required information under *File Details*
 6. Map *source fields* to the *target fields* under *Manage Table Definition and Data Mappings*
 7. Choose *finish* to confirm mapping and to upload the data from the flat file to the staging tables.

Note: The flat file must have one of the extensions .csv, .xls, or .xlsx, and must correspond to the table definition.



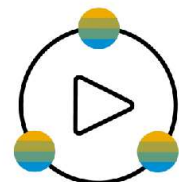
[Detailed How-To-Guide](#)

The screenshot shows the SAP HANA Studio interface. The top part displays a flat file with columns: banks, bankl, bankn, provz, stras, crt01, brnch, swift, xpgro, bnkzl, bgrup, pr. The bottom part shows the 'Table Definition' for 'RNT (DB_ACCESSER)'. The table has 12 columns: BANKS, BANKL, BANKN, PROVZ, STRAS, CRT01, BRNCH, SWIFT, XPGRO, BNKZL, BGRUP, and PR. The columns are mapped to the flat file columns. The 'PR' column is marked as 'unprocessed'.

Name	SQL Data Type	D...	Column Store D...	Key	Not Null	Default	Comment
1 BANKS	NVARCHAR	80	STRING	X(1)	X		Bank country key*
2 BANKL	NVARCHAR	80	STRING	X(2)	X		Bank key*
3 BANKN	NVARCHAR	60	STRING	X			Name of bank*
4 PROVZ	NVARCHAR	80	STRING	X			Region (State, Province, Country)
5 STRAS	NVARCHAR	35	STRING	X			House number and street
6 CRT01	NVARCHAR	35	STRING	X			City
7 BRNCH	NVARCHAR	40	STRING	X			Bank branch
8 SWIFT	NVARCHAR	11	STRING	X			SWIFT code for international pay...
9 XPGRO	NVARCHAR	1	STRING	X			Post Office Bank Current Account
10 BNKZL	NVARCHAR	15	STRING	X			Bank number
11 BGRUP	NVARCHAR	2	STRING	X			Bank group (bank network)
12 /11/PROCESSED	NVARCHAR	1	STRING	X			'='-unprocessed 'P'-processed 'E'...

Video

Migrate Data Using Staging Tables



What's new?

New with SAP S/4HANA 2021:

- Delete a mapping task by uploading a file with empty values

- Transport projects from one system to another

Add projects, migration objects, rules, fixed values, translation objects, and variables to a transport request with the help of the SAP S/4HANA migration object modeler

- Non modifiable systems / productive systems:

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

- Transaction LTMC is deprecated with SAP S/4HANA 2021

existing projects in LTMC will be still available in display mode – no creation of new projects possible



SAP S/4HANA Migration Cockpit – Development News

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

57/156

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

SAP S/4HANA Migration object modeler – what's new with SAP S/4HANA 2021

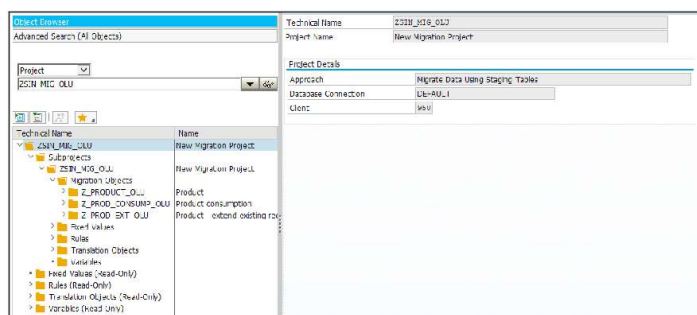
SAP S/4HANA 2021



Flexible and extendable



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

Transaction:
LTMOM

*Customer specific enhancements are available after upgrade without additional user activity.
This currently applies for added new fields.

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

58

Release Overview

Migration Cockpit (Fiori)

Feature	1909	2020	2021
Transaction LTMC	X	Available but not recommended	- Only display mode
Fiori App Migrate Your Data	-	X	X
Transport Concept (via CTS)	-	-	X
View migration results	-	-	X
Download migration results	-	-	X (FPS1)
Mapping Down/Upload	-	X	X
Delete mapping / Clean mapping task	-	-	X
Cancel button (Monitor Screen, e.g. cancel simulation)	-	-	X
Finished project can not be touched	-	-	X
Copy projects	-	-	X*
Message download customizable	-	-	X (FPS1)
Setting data retention time (to delete the project and associated data)	-	X	X

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | Public

* Check further details in this slide deck 59

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

59/156

Release Overview

LTMOM

Feature	1909	2020	2021
Reset Transfer Status	-	X	X
Copy and delete objects	-	X	X
Use project in different client	-	X	X
Client dependency (e.g. staging tables)	-	X	X
System check on modifiable/non-modifiable	-	X	X
Export/import projects	X (LTMC)	X	X (FPS0) - (FPS1 onwards)
Re-apply customer extensions after content upgrade			X

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | Public

60

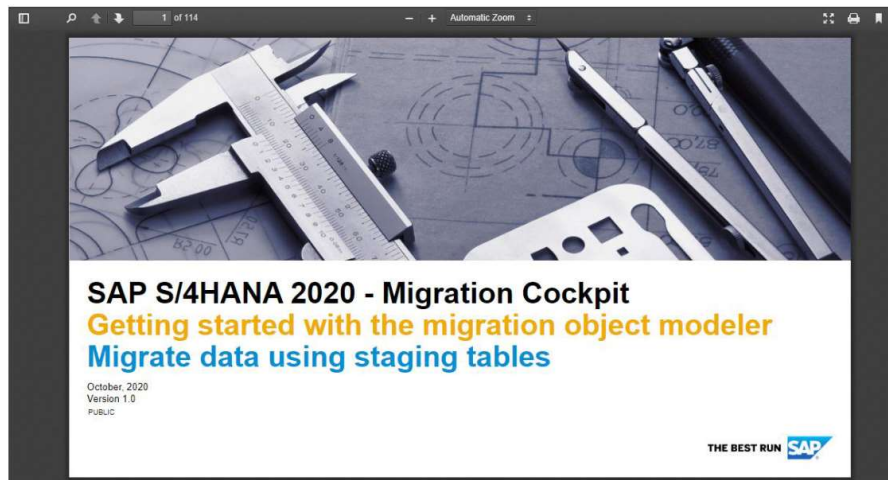
<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

60/156



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

Deep dive slides



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

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC



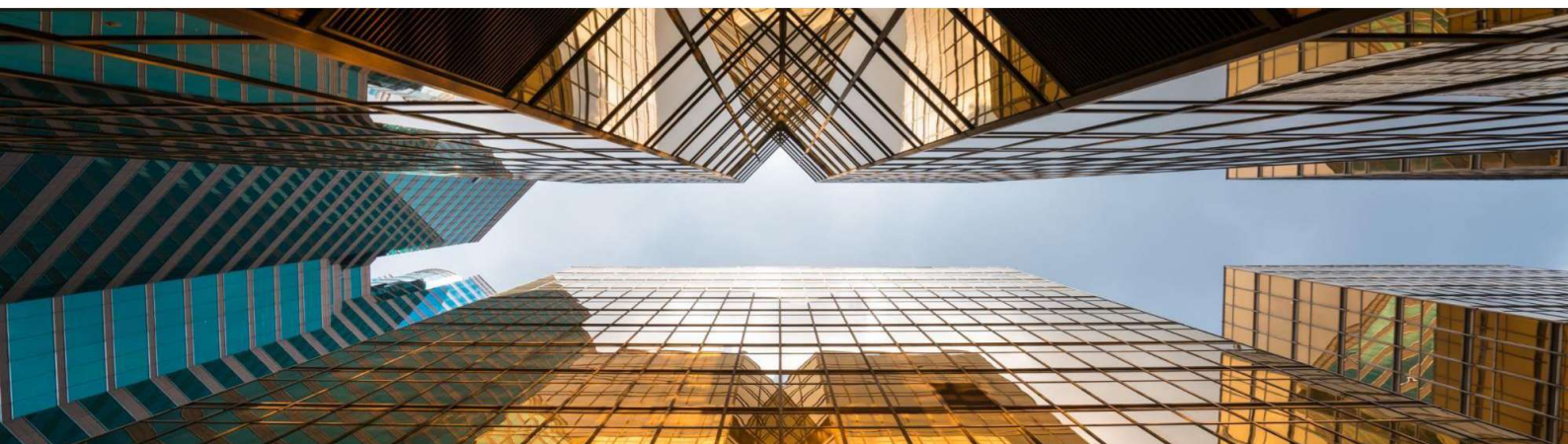
61

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

61/156

SAP S/4HANA Migration Cockpit

Migrate Data Directly from SAP System



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

62/156

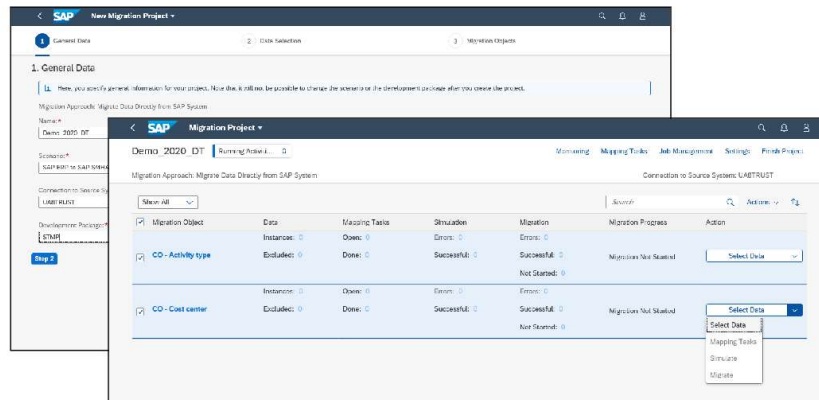
SAP S/4HANA Migration Cockpit – Direct Transfer*

* Migration approach "Migrate Data Directly from SAP System"

Fiori App Migrate your data



Process & content



Data load



SAP S/4HANA 2021: **+250** Migration objects



Available for:

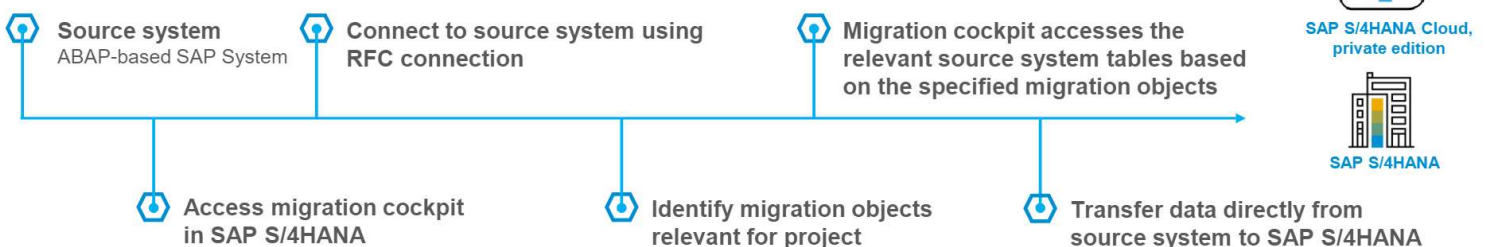
- SAP ERP 6.0 to SAP S/4HANA
- SAP Apparel and Footwear Solution (SAP AFS) 6.0 to SAP S/4HANA
- SAP Extended Warehouse Management to Decentralized EWM based on SAP S/4HANA
- SAP CRM to SAP S/4HANA for customer management
- SAP APO SPP to SAP S/4HANA eSPP**

Predefined selection criteria is depending on migration scenario.

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

SAP S/4HANA Migration Cockpit – Direct Transfer

Migrate data directly from SAP source system

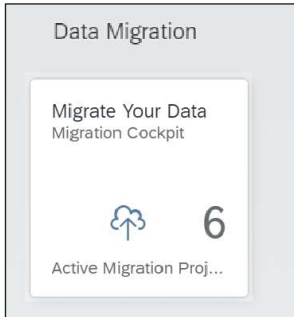


- Suitable for ABAP-based SAP source systems only
- Five migration scenarios supported
 - SAP ERP to SAP S/4HANA
 - SAP Apparel and Footwear to SAP S/4HANA
 - SAP EWM to decentralized EWM based on SAP S/4HANA
 - SAP CRM to SAP S/4HANA for customer management (SAP S/4HANA 1909 FPS01 onwards)
 - SAP APO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



SAP S/4HANA Migration Cockpit – Direct Transfer

Start the app



Start the “Migrate Your Data” App

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



SAP S/4HANA Migration Cockpit – Direct Transfer

Create new migration project - general data



SAP S/4HANA Migration Cockpit – Direct Transfer

Create new migration project - development package

SAP New Migration Project

Create New Project

1 General Data — 2 Development Package — 3 Data Selection — 4 Migration Objects

2. Development Package

In this step, you specify a development package. If you are unsure about which option to use, we recommend contacting your system administrator. It isn't possible to change the development package after you've created the project. Note that if you use a local development package, you cannot transport the project to another system.

Development Package: *

☐ Local Package (\$TMP)

☒ Other Package

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 - select migration objects

3. 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.)

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

4. 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		
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

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

Select migration objects in scope

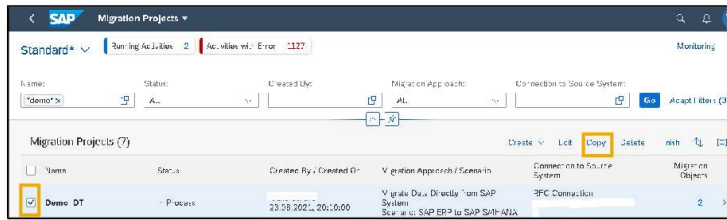
Preconfigured migration content: List of available migration objects > 250 objects in release 2021

SAP S/4HANA Migration Cockpit – Direct Transfer

Copy projects



Copy projects is available since SAP S/4HANA 2020 FPS01

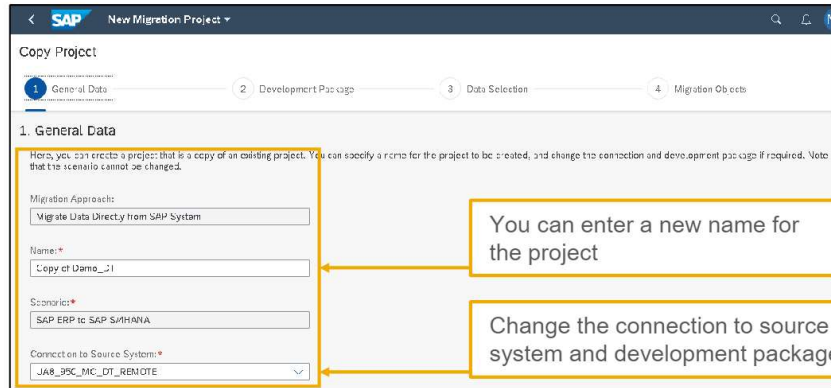


Select relevant migration project – press *Copy* button

Change the selection criteria, for example company codes.

Add migration objects (after copy is finished).

Remove migration objects in transaction LTMOM

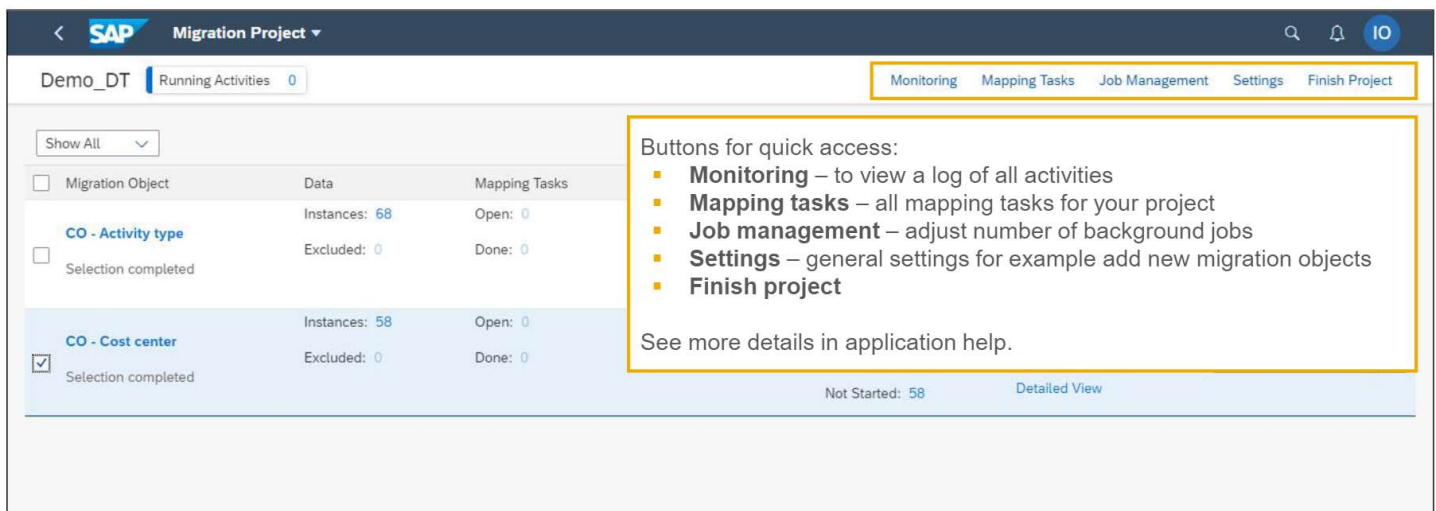


SAP S/4HANA Migration Cockpit – Direct Transfer

Migration project screen



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.



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 'Migration Object' screen for 'CO - Activity type' (Demo_DT). The status is 'Ready for Processing'. The top bar shows statistics: Instances: 0, Open: 3, Errors: 0, Done: 0, Successful: 0, Migration Not Started. A 'Select Data' button is visible. The left sidebar shows a list of migration objects, with 'CO - Activity type' selected. The main content area has tabs for Documentation, Table Structure, History, Dependencies, and Technical Information. The 'Table Structure' tab is active, showing a hierarchy of tables: 'Activity master' (containing 'Activity type texts'). The 'History' tab shows a list of actions: 'Selection started', 'Prepare object completed', and 'Copy completed'. Callouts provide additional information: one points to the migration object name in the sidebar, another points to the 'Table Structure' tab, and a third points to the 'History' tab.

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 'Migration Object' screen for 'CO - Activity type' (Demo_DT). The 'Table Structure' and 'History' tabs are highlighted. The 'Table Structure' tab shows a hierarchy of tables: 'Activity master' (containing 'Activity type texts'). The 'History' tab shows a list of actions: 'Selection started', 'Prepare object completed', and 'Copy completed'. Callouts provide additional information: one points to the 'Table Structure' tab, and another points to the 'History' tab.

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

Migration process

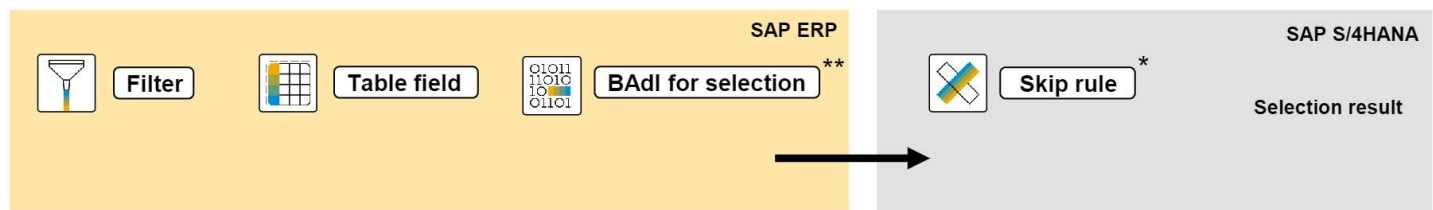
The migration cockpit guides you through the various steps of the data migration. You can also flexibly choose which steps you want to do next (select, prepare mapping tasks, mapping tasks, simulate, migrate).

The screenshot shows the SAP S/4HANA Migration Cockpit interface. The top navigation bar includes 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. The main area displays a table of migration objects with columns for 'Migration Object', 'Data', 'Mapping Tasks', 'Simulation', 'Migration', and 'Migration Progress'. Two objects are listed: 'CO - Activity type' and 'CO - Cost center'. A dropdown menu is open for the 'Actions' column, showing options: 'Select Data', 'Prepare Mapping Tasks', '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' option, stating: 'The system proposes "Select Data" as the next action. You can start the selection for **one object only**.'

SAP S/4HANA Migration Cockpit – Direct Transfer

Excursus: influence the selection in LTMOM (modelling environment)

In the Fiori App, you can choose the organizational unit (e.g. company code) and the migration objects. The modelling environment (transaction LTMOM in the S/4 backend) provides more possibilities to influence the selection from the source system.



Find BAdI details in KBA [3092921](https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html)



Tip

Find more details in the [LTMOM](#) slide deck

*new with 2020

**new with 2021

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

- **New Selection:** Deletes former selection and selects completely new (available as of SAP S/4HANA 2020).
- **Add Additional Instances:** Adds new instances from the source system to already selected instances (available since SAP S/4HANA 1909 – default behavior); no update of already selected instances.



If you have **changed** data in the source, use the new selection button to 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:

New Selection

Add Additional Instances

Cancel

SAP S/4HANA Migration Cockpit – Direct Transfer

Prepare mapping tasks (new from SAP S/4HANA 2021)



Action

Prepare Mapping Tasks

Select Data

Prepare Mapping Tasks

Mapping Tasks

Simulate

Migrate

A new step has been introduced: *Prepare Mapping Tasks*

Select Data creates the migration object instances

Prepare Mapping Tasks fills the mapping tasks with proposal values: source value = target value

Why is this separate step introduced?

- **Optimized downtime.** If you want to upload mapping values using Microsoft Excel, you can skip the activity *Prepare Mapping Tasks*.
- **More flexibility** in the setup phase when fine-tuning the data selection and finding the right selection criteria, or when developing your own mapping rules. *Select Data* now only selects the data.
- **More transparency** about the activity that the system is currently running.



Up to release 2020, the step *Select Data* always executed the step *Prepare Mapping Tasks* implicitly

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.

Activity Type	Controlling Area	Act. Type Short-Text
000102	0001	MACHINE HOURS
000103	0001	MAINTENANCE ELECTRIC
000104	0001	TCST
000105	0001	SETUP HOURS



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.

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

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



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

SAP S/4HANA Migration Cockpit – Direct Transfer

Mapping download/upload – check information



Monitoring

Demo_DT

Activity: All Activities | Status: 7 Items | Object Type: All Types | Object Name: | Started by: | Started On: | Finished On: |

Activities (13)

Activity	Object Type/Name	Started By/On	Additional Information	Options
Upload Mapping Values	Mapping Task			Activity Type

Show Messages

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

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

Messages

Demo_DT

Event: Upload of mapping values completed

7 All

Type	Message Title	Message Class	Message Number	Date and Time
①	Uploading mapping values for mapping task Activity Type	/LTBMC	236	
②	Option for loading mapping values: Modify or Add Values	/LTBMC	238	
③	Option for confirming values: Do Not Confirm Values Automatically	/LTBMC	240	
④	Upload of mapping values started (file Activity_Type_1.xml)	/LTBMC	242	
⑤	Upload of mapping values completed (file Activity_Type_1.xml)	/LTBMC	243	
⑥	7 mapping values have been loaded for mapping task Activity Type	/LTBMC	257	
⑦	87 mapping values have been updated for mapping task Activity Type	/LTBMC	258	

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.

Migration Object Instances

CO - Activity type (32)

Demo_2020_DT

Search | Controlling Area: | Activity Type: | Valid To Date: | Activity Type Category: |

Variant Activity Type Category: |

Adapt Filters **Go**

Show All

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	

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

Use the gear wheel to select the columns to be displayed.

Click the arrow to view the migration object instance details.

Migration Object Instance Details

CSLA - Activity master

Records (1)

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

Tables (2)

- Activity master: CSLA
- Activity type from: CLT



Instances download is possible with FPS01 (via the migration results view)

SAP S/4HANA Migration Cockpit – Direct Transfer

Migration object instances list - migration results view

New tab: *Migration Results*
This view displays document no. or master data key of the newly created data record

Clicking the link opens the relevant app where you can access the record, e.g. the activity type Z1 in controlling area 0001



Download functionality for the migration results list is realized with FPS01

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

81

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

81/156

SAP S/4HANA Migration Cockpit – Direct Transfer

A detailed view of the migration process

The detailed view of the migration progress gives more control over the migration process

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

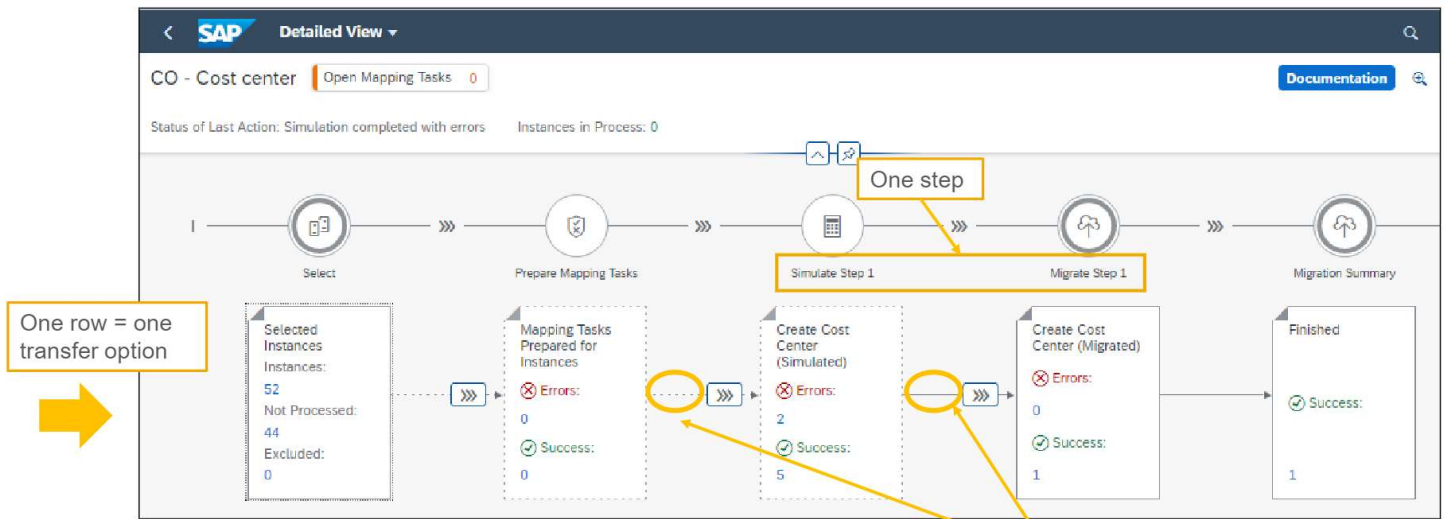
82

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

82/156

SAP S/4HANA Migration Cockpit – Direct Transfer

A detailed view of the migration process

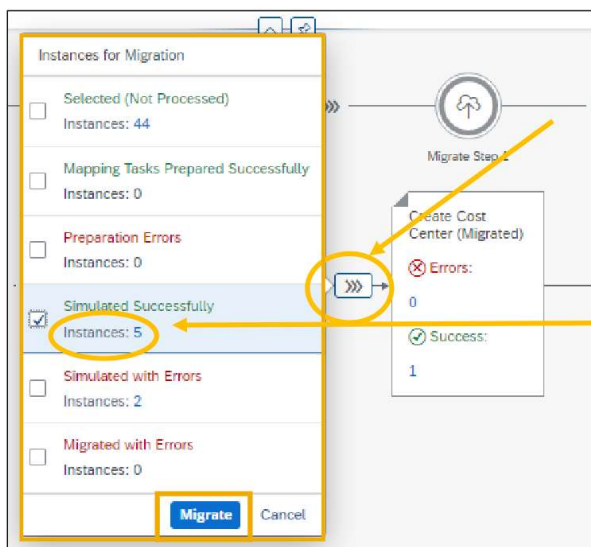


In the *Detailed View*, you can view all **transfer options** and **transfer steps** for an object. The migration object (CO – Cost center) has only one transfer option (one row) and one step (simulate step 1 / migrate step 1).

Dotted line = optional activity
 Solid line = mandatory activity

SAP S/4HANA Migration Cockpit – Direct Transfer

A detailed view of the migration process



Clicking on the arrow opens a popup. You view object instances that have been processed successfully as well as any instances which ended with errors in the previous activities. In this example, the migration will only be started for the 5 successfully simulated instances.

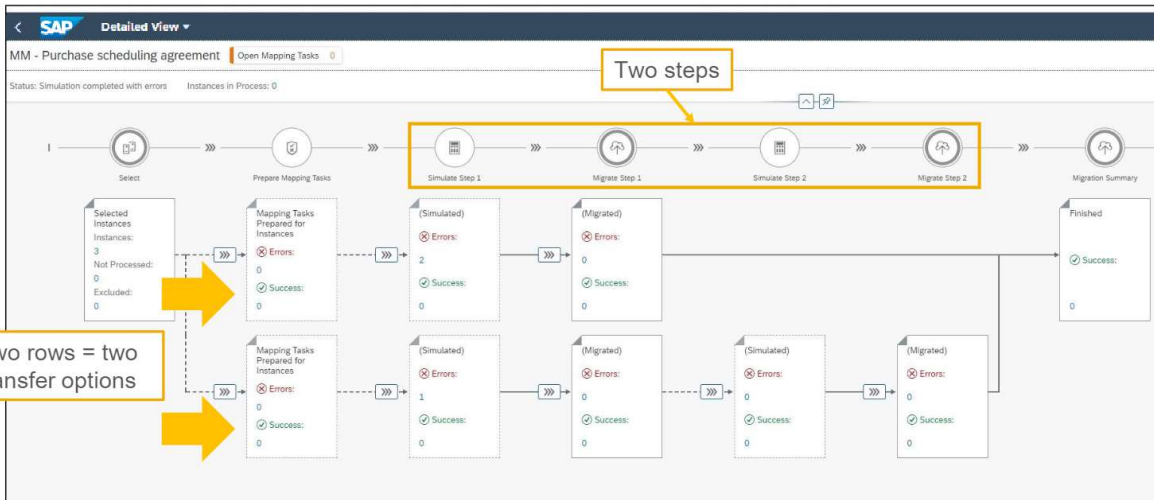
You can navigate to the Migration Object Instances screen by clicking on the number of instances (e.g. 5).



An instance can only have one status at a time. This means, for example, if an instance has been simulated successfully, it no longer appears under *Mapping Tasks Prepared Successfully*.

SAP S/4HANA Migration Cockpit – Direct Transfer

A detailed view of the migration process – Complex example



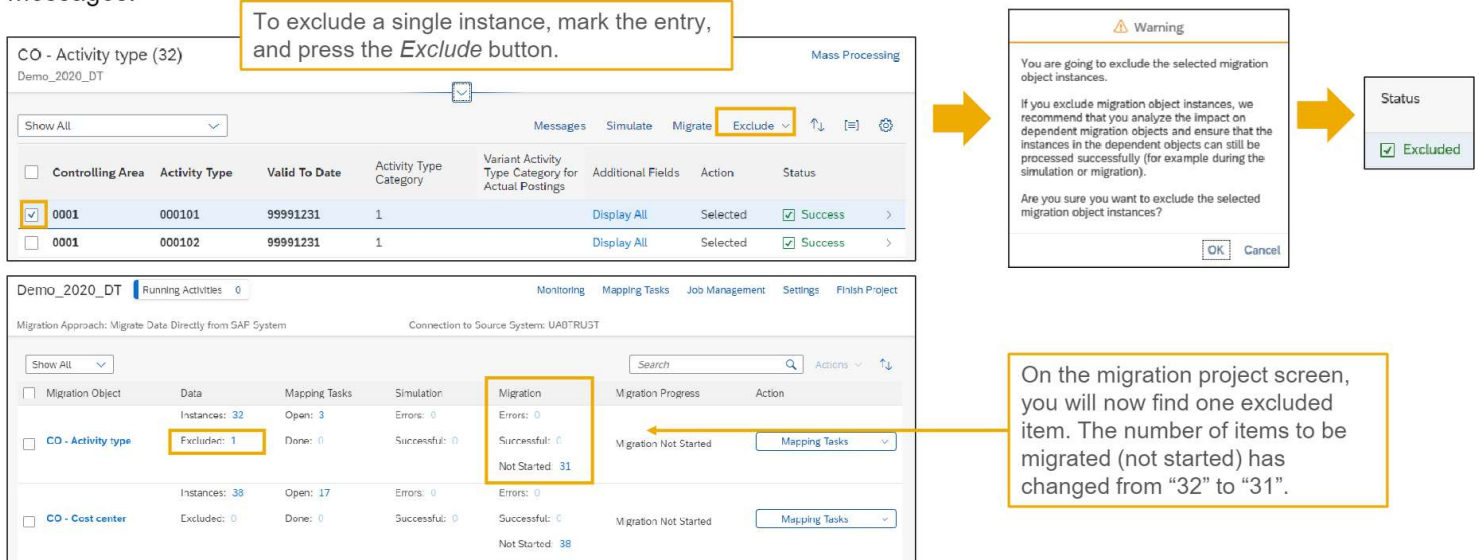
The *Detailed View* provides

- A more detailed representation of the migration process in form of a process flow graph
- The ability to execute actions for specific transfer steps, e.g. execute only one migration step of a multistep migration object

SAP S/4HANA Migration Cockpit – Direct Transfer

Single instance processing

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



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.

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.

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

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

Random 10%

Random 500

All Instances

All Successfully Simulated Instances

Custom Selection

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 S/4HANA Migration Cockpit Monitoring screen. The filter bar at the top allows users to search and filter activities. The table below lists activities and their status. The 'Options' column provides actions for each activity, such as downloading files or viewing messages.

Activity	Object Type/Name	Started By/On	Additional Information	Options
Download Mapping Values Completed	Migration Project Demo_DT	Started By: [User] Started On: [Date]	[Additional Info]	Download File
Prepare Mapping Tasks Completed	Migration Object CO - Cost center	Started By: [User] Started On: [Date]	[Additional Info]	Show Messages
Select Data Completed	Migration Object CO - Cost center	Started By: [User] Started On: [Date]	[Additional Info]	Show Messages
Select Data Completed	Migration Object CO - Activity type	Started By: [User] Started On: [Date]	[Additional Info]	Show Messages

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

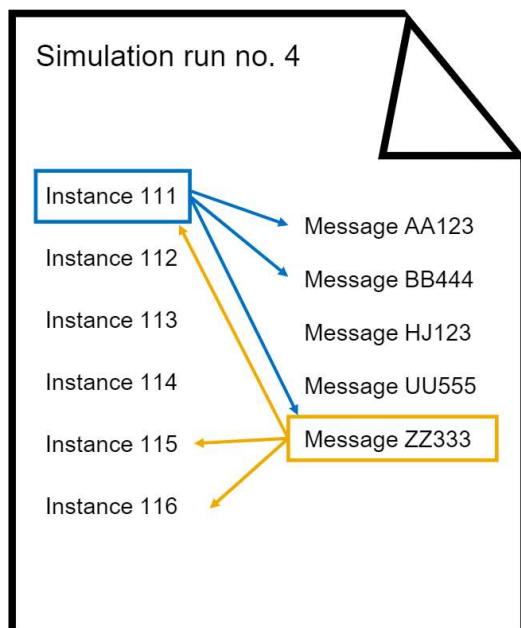
You can view the downloaded files (for example downloaded mapping values.)

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

SAP S/4HANA Migration Cockpit – Direct Transfer Different message analysis capabilities



View: which messages occurred for an activity?



View: Which messages occurred for one instance?

View: Which instances are relevant for one message?



Simulation run no. 1

Simulation run no. 2

Simulation run no. 3



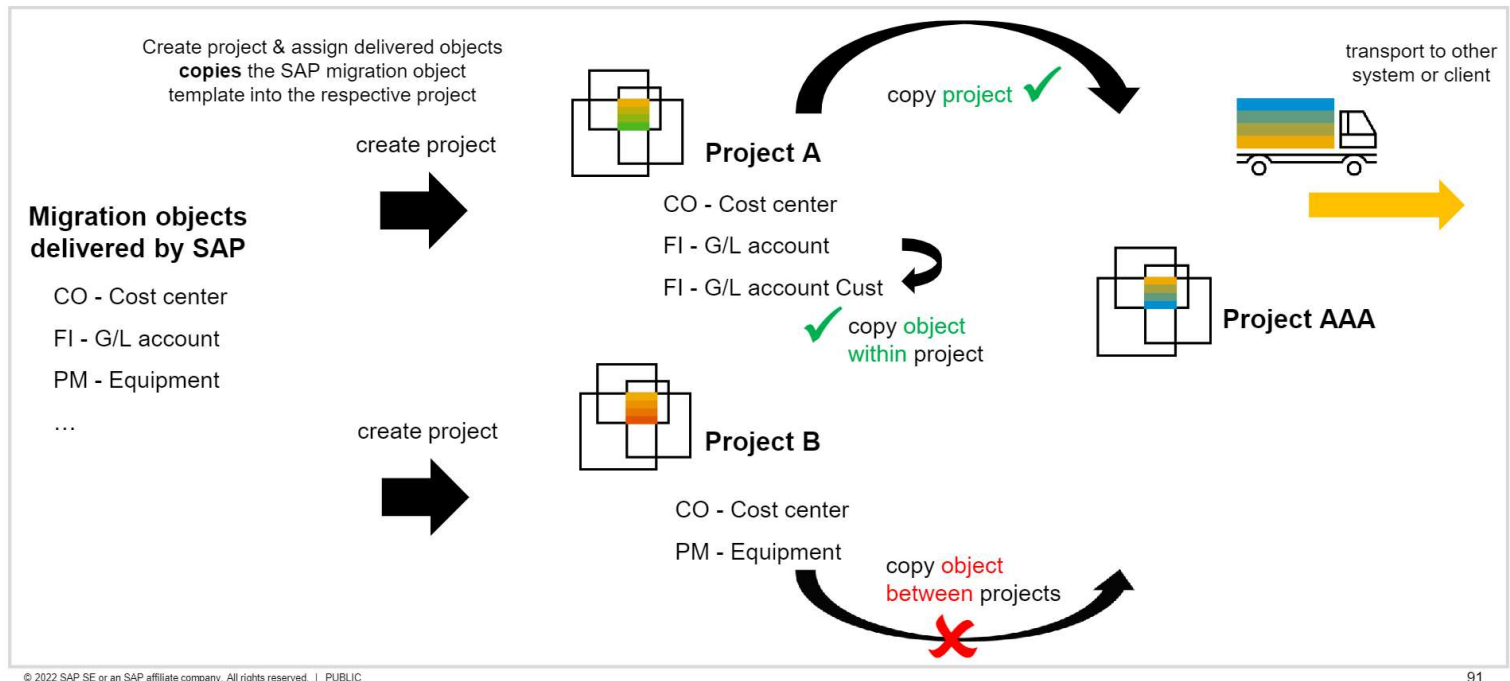
For more details see slides 48 - 51

SAP S/4HANA Migration Cockpit – Direct Transfer

How to create project “templates”?



Transport is available since SAP S/4HANA 2020 => [more details](#)
Copy projects is available since SAP S/4HANA 2020 FPS01



91

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

91/156

SAP S/4HANA Migration Cockpit – Direct Transfer

How to tailor the projects?

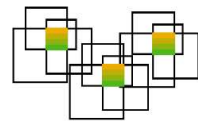


Use only one project



- Mapping is known between the objects
- In case you need different selection criteria for one MO (e.g. only material category A, then material category B), you can add it several times to a project => LTMOM, project, create migration object from template
- Central overview and control of the migration

Use several projects



It might seem as if one project per application may lead to a better progress overview for a dedicated area but:

- You must keep mapping in sync between the projects => effort & error-prone!
- If you use internal numbering for a MO, you can only upload this mapping after it has been created
- Executing projects in parallel does **not** improve the performance! See [KBA 3056885](#)

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

92/156



SAP S/4HANA Migration Cockpit – Direct Transfer

Impact of release upgrade



Note: Avoid upgrading to a newer release during a migration project if possible!

What is the impact of upgrading to a newer release **during** a migration project using the Direct Transfer approach?

Though SAP tries to avoid incompatible changes between releases, it **cannot** be guaranteed that migration objects delivered by SAP work after the upgrade.

Same applies to migration objects adapted or created by the customer.

Recommendation

- Projects need to be created and executed within the same release, or in other words: Do **not execute** projects which have been created before the system was upgraded
- Custom MOs or extended MOs need to be created in the higher release again

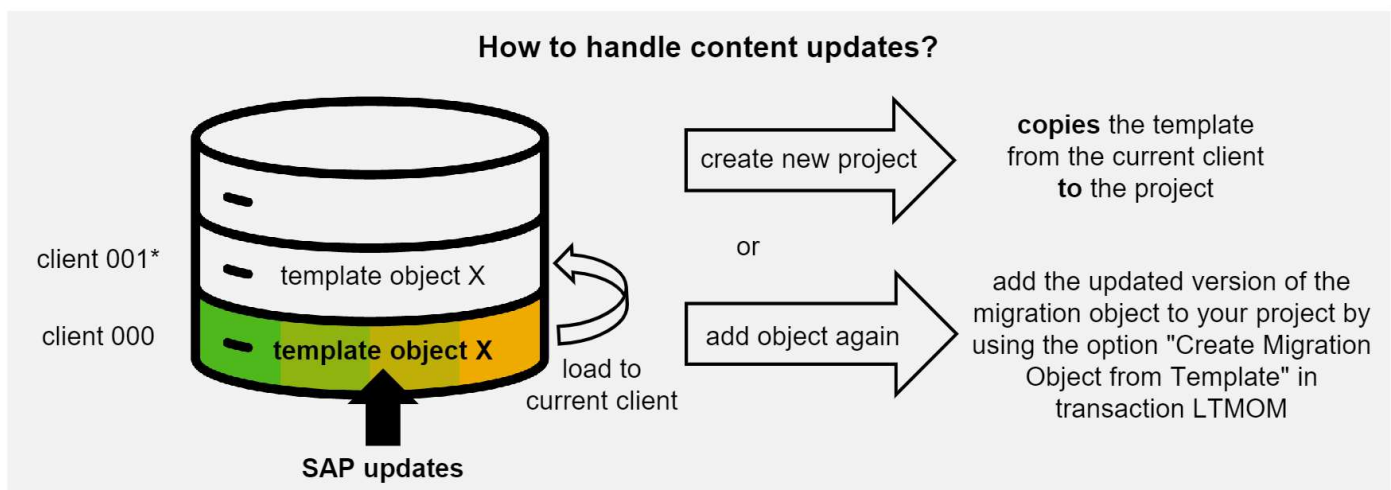


SAP S/4HANA Migration Cockpit – Direct Transfer

Impact of FPS and TCI notes

Migration object updates can also come into your system by:

- a feature package (FPS) or support package (SP) or
- by a so-called TCI note (SAP Note transport-based correction instructions)

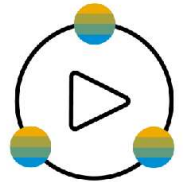


* Execute program `CNV_PE_MC_LOAD_OBJECTS` to update the template SAP migration objects in current client 001 (see SAP Note [2870546](#))



Video

Migrate Data Directly from SAP Source System



SAP S/4HANA Migration Cockpit – Direct Transfer

Technical preconditions

Technical preconditions

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

Note: The SAP S/4HANA Migration Cockpit does not support the migration of data from SAP S/4HANA systems to other SAP S/4HANA systems. SAP S/4HANA Finance systems (previously known as SAP Simple Finance) are classified as SAP S/4HANA systems.

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 2021)
- RFC connection from ERP/AFS/EWM/CRM/APO SPP source to SAP S/4HANA target system*
- Setup FIORI
- Apply necessary notes: start with [Composite SAP Note 2747566](#)
- Check customizing: relevant customizing in the target must be available (for example, organizational units, define document type for migration, define accounts for migration, remove account blocks)
- Ensure availability of required authorizations
- For required roles, please check the installation guide (chapter 7)



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

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

SAP S/4HANA Migration Cockpit – Direct Transfer

Process-related preparations



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

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

Test and productive migration

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



SAP S/4HANA Migration Cockpit – Direct Transfer

Transport functionality – Basic facts



- The transport functionality used in the migration cockpit is designed to transport from one system to another.
- Introduced with SAP S/4HANA 2020.
- You assign a development package while creating a project (SAP Fiori app). Note that it is not possible to change this assignment later.
- You have the possibility to add projects, migration objects, and rules to a transport request in transaction *LTMOM*.
- It is not possible to create or edit projects in non-modifiable systems, they can only be executed. Usually, non-modifiable systems are quality and production systems. For more information about non-modifiable systems, see slide 10 in [Transport concept - Migrate Data Directly from SAP System](#).
- For information about how to transport from client to client within one system, see slide 8 in [Transport concept - Migrate Data Directly from SAP System](#).



More details in [SAP Note 3043614](#)



Selected instances and mapping values are not transported!

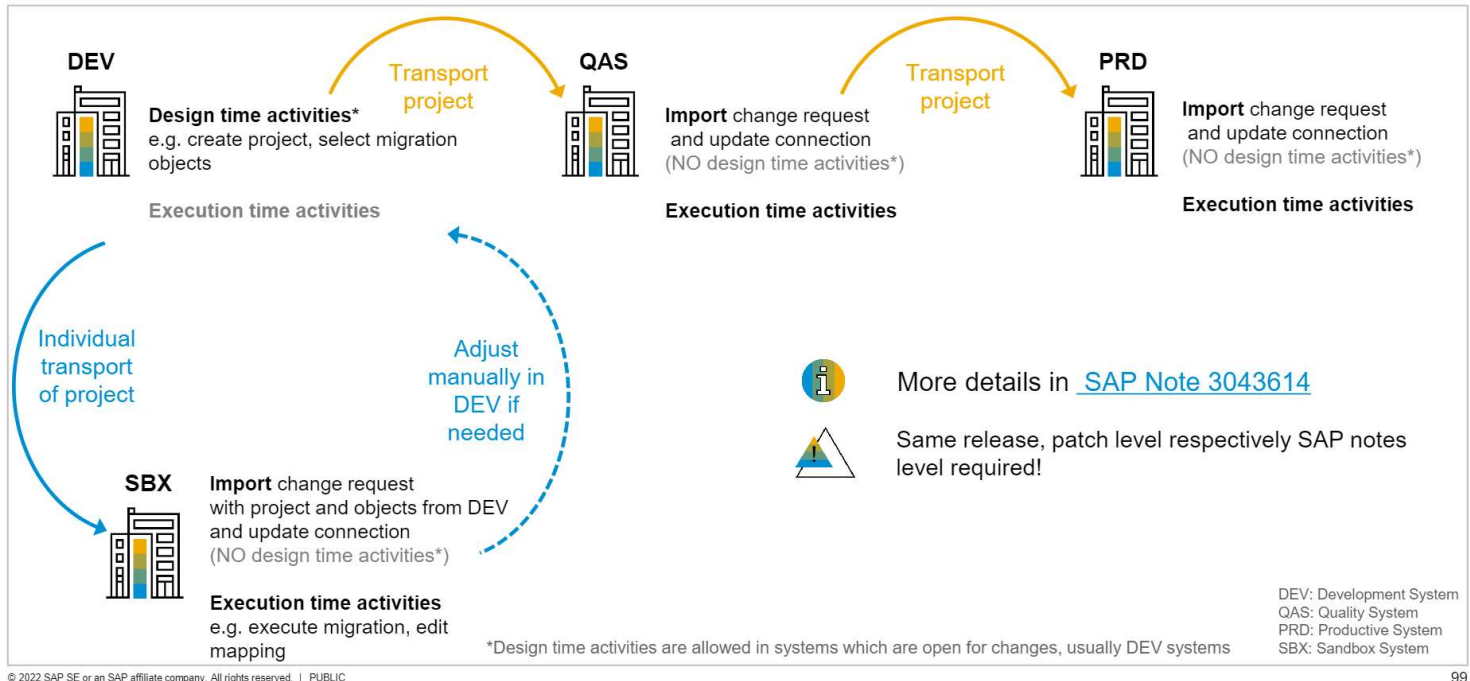
Transport Concept



Transport is available since SAP S/4HANA 2020 => [more details](#)



Separation between **design time** and **execution time** activities



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

99

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

99/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA Migration Cockpit – Direct Transfer

What's new in SAP S/4HANA 2021?

- New step Prepare Mapping Tasks
- The Migration Results view
- A detailed view of the migration process
- A detailed view of the migration process - complex example
- LTMOM: BAdI selection exit for custom selection
- Use BAdI selection exit or skip rule?
- Additional changes and enhancements
- Migration object modeler news



See more details in:
[SAP S/4HANA Migration Cockpit – Development News](#)

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

SAP S/4HANA 2021



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

100/156

SAP S/4HANA Migration Cockpit – Direct Transfer

SAP S/4HANA Migration object modeler



Flexible and extendable

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

Transaction:
LTMOM



The screenshot displays the LTMOM transaction interface. On the left, there's a tree view under 'Object Browser' showing 'Migration Objects' and 'Rules'. The main area is divided into two panes. The top pane, 'Project Details', shows information for project 'Demo_2020_DT', including its approach ('Migrate Data Directly from SAP System'), scenario ('SAP FPP to SAP S/4HANA'), RFC destination ('UNTRUST'), and package ('STMP'). The bottom pane, 'Technical Information', shows the technical name 'Demo_2020_DT', its type 'CC - Activity type', and its cost center 'CC - Cost center'. It also includes a 'Retention Information' section with fields for 'Finished On/By' and 'Retention Date'.

Release overview

Migration Cockpit (Fiori)

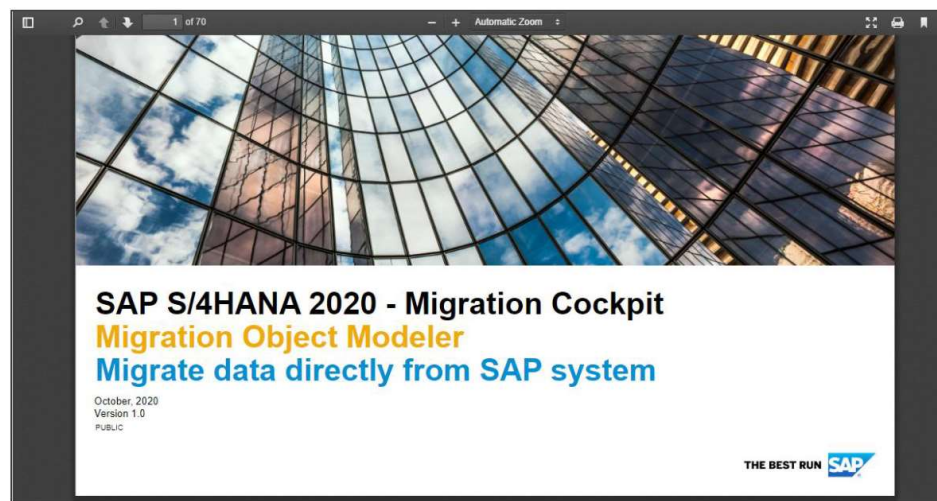
The approach "Migrate data directly from SAP system" is available since release 1909. Find below **important** new features.

Feature / Migration Cockpit (Fiori)	With 2020	With 2021
Transport projects and project elements	X	
Mapping download/upload in Fiori	X	
Additional view on messages (instances concerned by message)	X (FPS1)	
Copy projects	X (FPS1)	
Step <i>selection</i> split into: selection and prepare mapping tasks		X
Migration results view – display document no./record ID of migrated item		X
Detailed view on migration process (multi-step objects, error case)		X
Cancel function in MC monitor		X (FPS1)
Download migration results		X (FPS1)
Download selected items		X (FPS1)
Message download customizable		X (FPS1)



SAP S/4HANA Migration Object Modeler

Deep dive slides



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

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC



103

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

103/156

Release overview

LTMOM

The approach “Migrate data directly from SAP system” is available since release 1909. Find below **important** new features.

Feature / LTMOM	With 2020	With 2021
Copy objects	x	
Delete objects	x	
Selection – skip rule	x	
Mapping – custom-own source code rules	x	
Mapping download/upload disabled in LTMOM – now in Fiori only	x (FPS1)	
Create migration object from template – copy an (updated) standard SAP migration object into your project (a second time if needed)	x	
Selection – BAdI for selection		x

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

104

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

104/156

SAP S/4HANA Migration Cockpit

Migrate Data Directly from SAP System – Migration Scenarios



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

105/156

27/06/2022 14:07

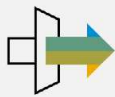
SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA 2021



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

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



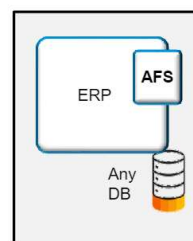
Migrate data directly from SAP System
Selection of data from SAP source system
through RFC
Data Selection based on company code



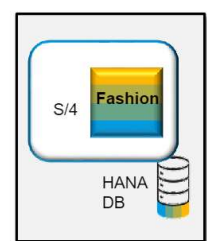
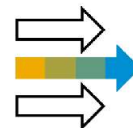
73 Pre-defined AFS specific
migration objects are supported



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

Create New Project

1 General Data 2 Development Package 3 Data Selection 4 Migration Objects

1. General Data

Here, you specify general information for your project. Note that it isn't possible to change the scenario after you've created the project.

Migration Approach:

Name: *

Scenario: *

Connection to Source System: *

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

Enter a source system connection



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

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

SAP New Migration Project

Create New Project

1 General Data 2 Development Package 3 Data Selection 4 Migration Objects

2. Development Package

In this step, you specify a development package. If you are unsure about which option to use, we recommend contacting your system administrator. It isn't possible to change the development package after you've created the project. Note that if you use a local development package, you cannot transport the project to another system.

Development Package: *
☒ Local Package (\$TMP)
☐ Other Package

Enter a valid development package

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

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



Create New Project

1 General Data — 2 Development Package — 3 Data Selection — 4 Migration Objects

3. 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: *
1000 (SAP A.G.) X

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



Create New Project

1 General Data — 2 Development Package — 3 Data Selection — 4 Migration Objects

4. 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

Name	Predecessor	Documentation
<input type="checkbox"/> AFS - Dimensional characteristic	2	Documentation
<input type="checkbox"/> AFS - Distribution curve	4	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	4	Documentation
<input type="checkbox"/> AFS - Planned indep. reqt at SKU level		
<input type="checkbox"/> AFS - Purchase grid condition record		
<input type="checkbox"/> AFS - Quantity distribution profile		
<input type="checkbox"/> AFS - Sales grid condition record	2	Documentation
<input type="checkbox"/> AFS - Season	1	Documentation
<input type="checkbox"/> AFS - Segmentation default values	2	Documentation
<input type="checkbox"/> AFS - Segmentation strategy	1	Documentation
<input type="checkbox"/> AFS - Segmentation structure	1	Documentation
<input type="checkbox"/> AFS - Value added service	1	Documentation

Preconfigured migration content:
List of available migration objects

Selected Migration Objects

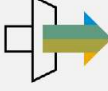
Name	Predecessor	Documentation
<input type="checkbox"/> AFS - Article	6	Documentation
<input type="checkbox"/> AFS - Configuration class for material grid	1	Documentation

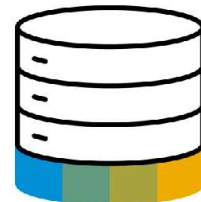
Select migration objects in scope



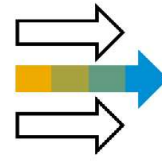
SAP EWM to Decentralized EWM Based on SAP S/4HANA

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


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



SAP
Business Suite EWM*



Decentral EWM
based on S/4HANA

Preconfigured migration objects




- Material flow system
- Physical inventory settings
- Production supply area
- Resource and user maintenance
- Resource execution settings
- Resource group and queue settings
- RFID Settings
- Shipping and receiving settings
- Sample-Drawing Procedure
- Warehouse application log settings
- Warehouse fixed bin assignment log settings
- Warehouse storage bin sorting
- Warehouse product
- Warehouse stock
- Warehouse storage bin
- Wave templates
- Miscellaneous EWM settings
- Quality inspection rules
- Quality inspection rules (cross-warehouse)
- Work center dependent settings
- Work center determination
- Route
- Zone
- Zone Hierarchy
- Carrier profile
- Condition Records (warehouse-independent)
- Condition Records (warehouse-dependent)

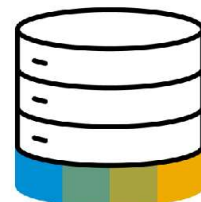
*Prerequisite for Migrate data directly from SAP System: DMIS installation in source



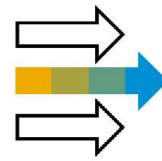
SAP SCM (APO/ SPP) to eSPP Based on SAP S/4HANA

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


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



SAP
Business Suite SCM*



APO eSPP
based on S/4HANA

Preconfigured migration objects



- Bill of Distribution (BoD)
- Location
- Location Product
- MRP Area
- Product
- Product BoD Assignment
- Transportation Lane

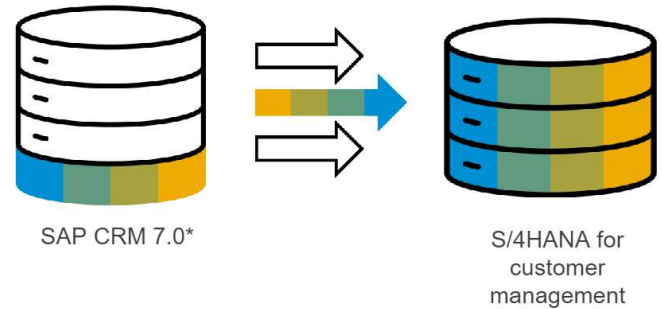
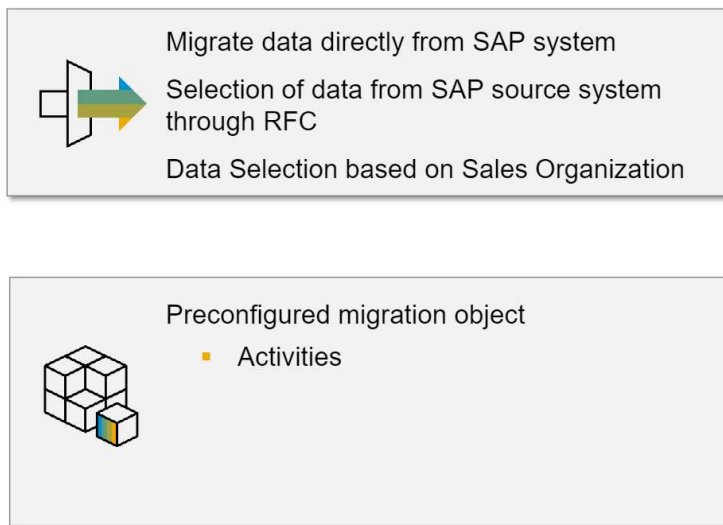
**Related support component for content: SCM-APO-SPP

*Prerequisite for Migrate data directly from SAP System: DMIS installation in source
Recommended source system release SCM 7.14



SAP CRM to SAP S/4HANA for Customer Management

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

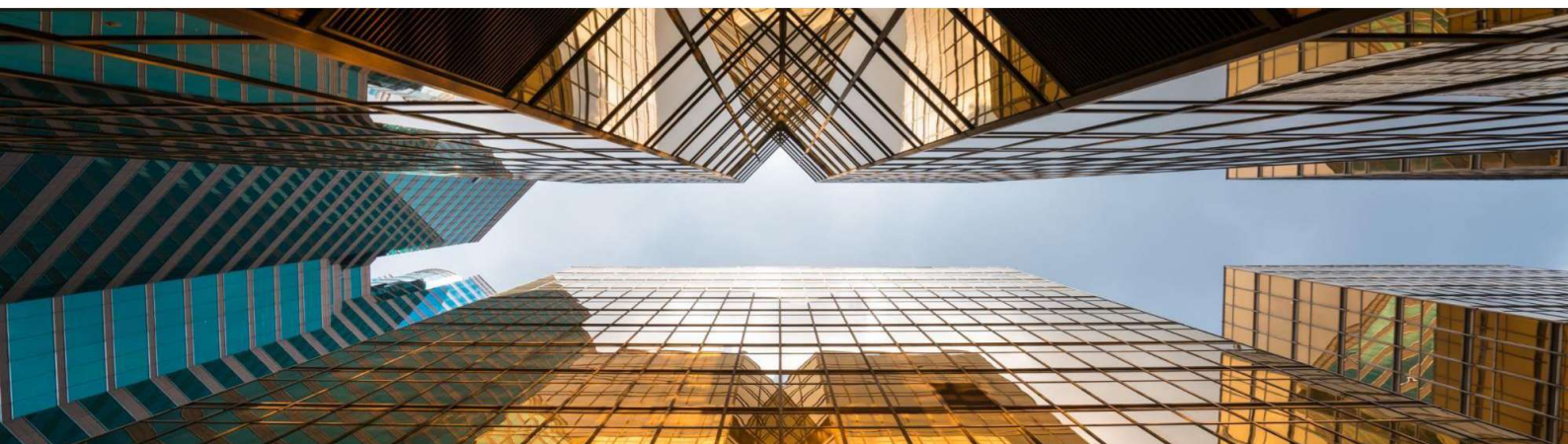


*Prerequisite for transfer data directly from SAP System: DMIS installation in source











SAP S/4HANA Migration Cockpit

Summary Migration Approaches



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

SAP S/4HANA 1909

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

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC








115

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

115/156

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

SAP S/4HANA 2020 onwards

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

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC



116

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

116/156

SAP S/4HANA Migration Cockpit

Migration Objects



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

117/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA Migration Cockpit

Preconfigured migration objects SAP S/4HANA

Download migration object list

Filter for migration approach*

Documentation available

Migration Object Name	Business Object Type	Migration Approach	Component
PM - Functional location task list	Filter	Filter	Filter
PM - Functional location BOM	Filter	Filter	Filter
PM - Functional location BOM	Filter	Filter	Filter
PM - Functional location	Filter	Filter	Filter
PM - Functional location	Filter	Filter	Filter
PM - Functional location	Filter	Filter	Filter

Select All
Clear Filter

- ☐ Direct Transfer - AFS
- ☐ Direct Transfer - CRM
- ☐ Direct Transfer - ERP
- ☐ Direct Transfer - EWM
- ☐ File/Staging Table

[Migration object list in SAP Help Portal \(SAP S/4HANA\)](https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html)

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

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

118/156

SAP S/4HANA Migration Cockpit

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

Data Migration ☆

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

Product Assistance

Object-Related Information

Getting Started

Further Information

SAP Best Practices

Training and Education

News

SAP Community

Object-Related Information

- Migration Objects for SAP S/4HANA
- SAP S/4HANA – Release Comparison of Migration Object Templates
- Data Migration Template Samples (for customers and partners)

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

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

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

Note that the templates are created for, and tested in, SAP S/4HANA 2020. If you migrate data into the SAP S/4HANA Cloud system they are built for. Although the templates are created for, and tested in, SAP S/4HANA 2020, they are also valid for SAP S/4HANA 2021.

SAP Help Portal

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

Change Overview

Change Status per Object

SAP S/4HANA 1909 – 2020

SAP S/4HANA 1809 – 1909

SAP S/4HANA 1709 – 1809

Comparison of Migration Object Templates

Appendix

Objects Added with SAP S/4HANA 2021

- Bank
- Class
- Customer - extend existing record by multiple addresses
- Customer - extend existing record by new org levels
- DG - Technical names for substance
- EHS - Calculation definition
- EHS - Chemical/Physical property
- EHS - Compliance requirement
- EHS - Compliance scenario
- EHS - Data classifier

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

Back to Agenda

119

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

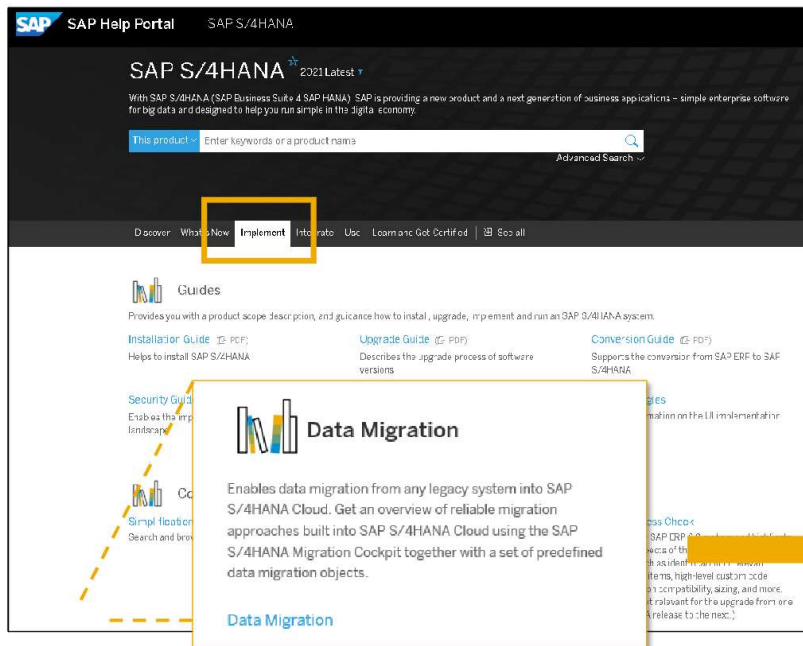
119/156

SAP S/4HANA Migration Cockpit

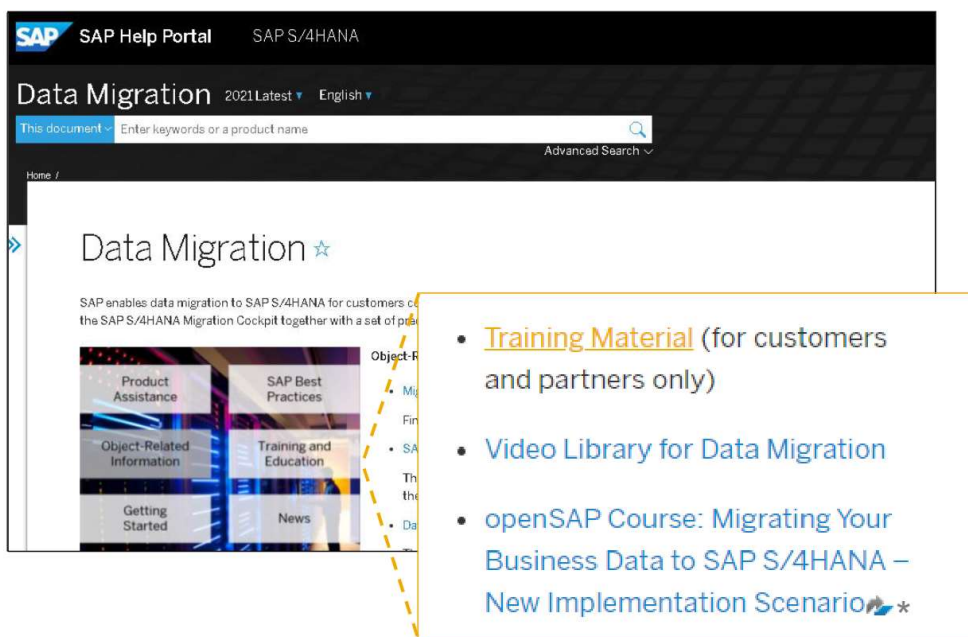
Further Information



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



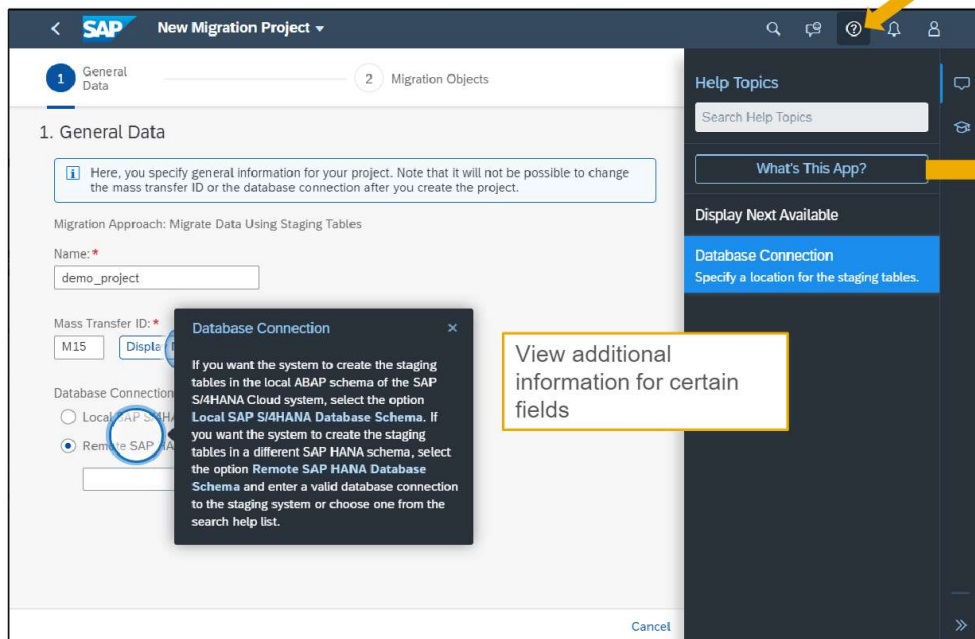
SAP S/4HANA Migration Cockpit – Further [Training Material](#)



* openSAP Course based on 1909

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

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



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

123

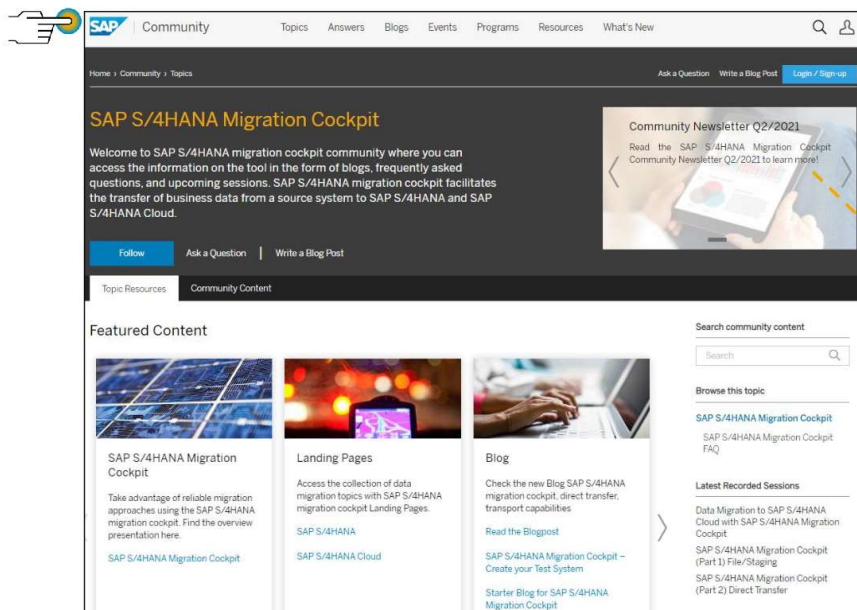
<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

123/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA Migration Cockpit Community



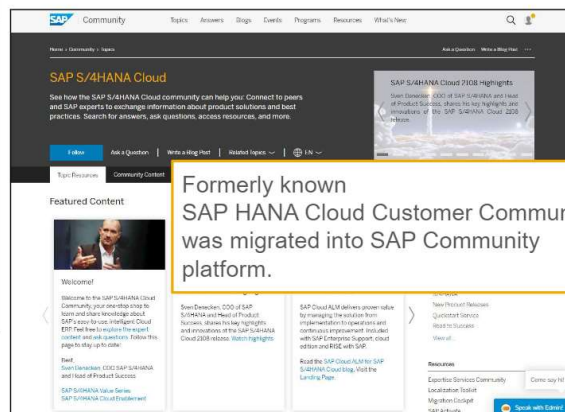
© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC



One-stop shop – free access

- Latest news
- Blogs
- Q&A section

Check for new announcements



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

124

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

124/156

Preconfigured SAP S/4HANA Sandbox System

Demo scripts for SAP S/4HANA migration cockpit available



Based on SAP S/4HANA 2021



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

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

Joerg Wolf

April 23, 2019 | 8 minute read

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

59 71 96,271

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:

2021 SP00 / 2020 FPS02 / 2020 FPS01 / 2020 SP00 / 1909 FPS02 / 1909 FPS01 / 1909 SP00

Demo scripts for SAP S/4HANA migration cockpit (based on 2021 SP00)

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



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

System access for externals

External CAL: <https://cal.sap.com/catalog#/solutions/b8a9077c-f0f7-47bd-977c-70aa6a6a2aa7>

SAP S/4HANA Migration Cockpit

SAP Notes and KBAs

Tip:

Run Report DMC_NOTE_ANALYZER
Check SAP Note 3016862



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



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

127/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

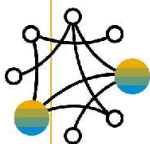
SAP S/4HANA Migration Cockpit Key Takeaway



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



Preconfigured SAP S/4HANA-specific migration content



Automated mapping between source & target



Guidance and simulation for the migration process



Integrated into SAP Activate methodology

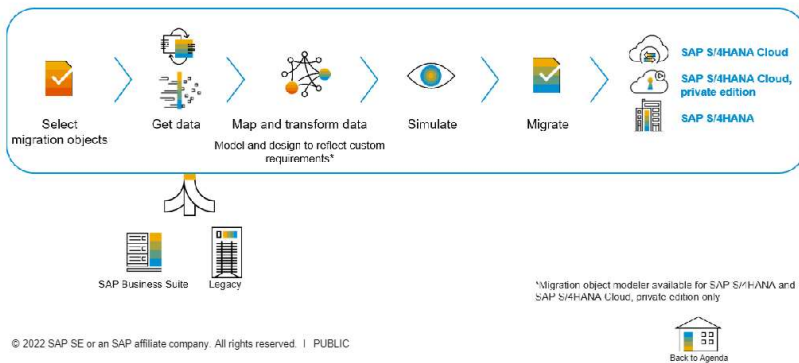


Lower migration time and costs

Key Takeaways

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

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



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

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)

129

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

129/156

Thank you.

- Standard slide deck SAP S/4HANA : [Migrate Your Data to SAP S/4HANA – SAP S/4HANA Migration Cockpit](#)
- Standard slide deck SAP S/4HANA Cloud: [Migrate Your Data to SAP S/4HANA Cloud – SAP S/4HANA Migration Cockpit](#)
- Video: [Migrate Data Using Staging Tables](#)
- Video: [Migrate Data Directly from SAP System](#)
- Data migration landing pages http://help.sap.com/S4_OP_DM or http://help.sap.com/S4_CE_DM
- Community topic page <https://community.sap.com/topics/s4hana-migration-cockpit/>
- Click through tutorials [SAP S/4HANA migration cockpit](#)
- Classroom Training [S4D445 Data Migration using the SAP S/4HANA Migration Cockpit](#) (based on 1909; chargeable)

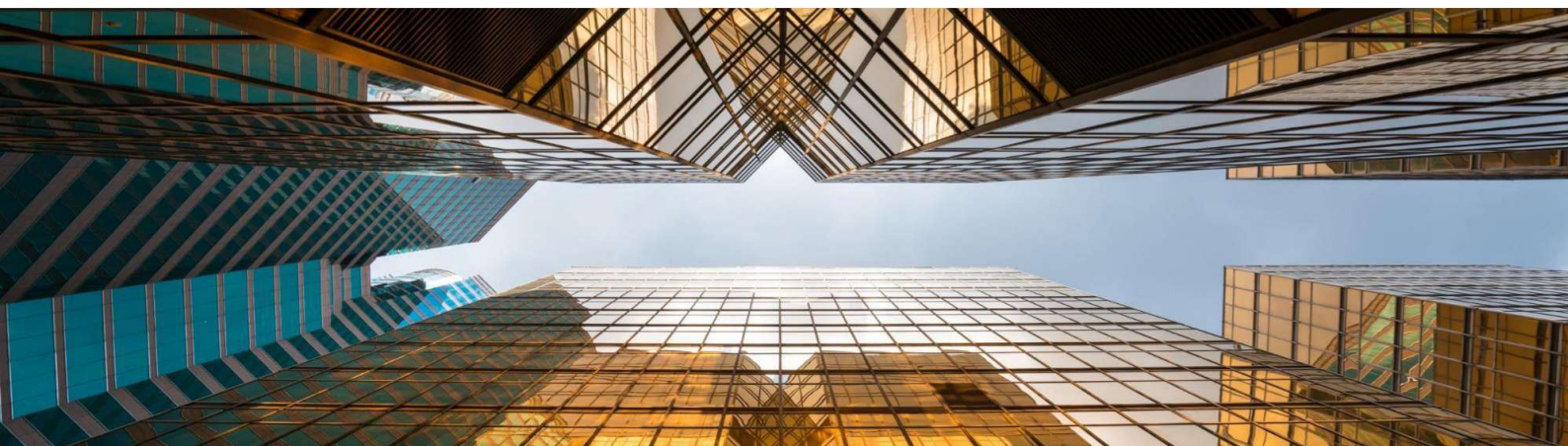
SAP S/4HANA migration cockpit: sap_s4hana_migration_cockpit@sap.com

Find a comprehensive FAQ list in the SAP S/4HANA migration cockpit Community:
<https://community.sap.com/topics/s4hana-migration-cockpit>

THE BEST RUN

SAP S/4HANA Migration Cockpit

Appendix



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

131/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA Migration Cockpit

Appendix Contents

- Miscellaneous
- Project Setup
- Re-cap - What was new with 2020?



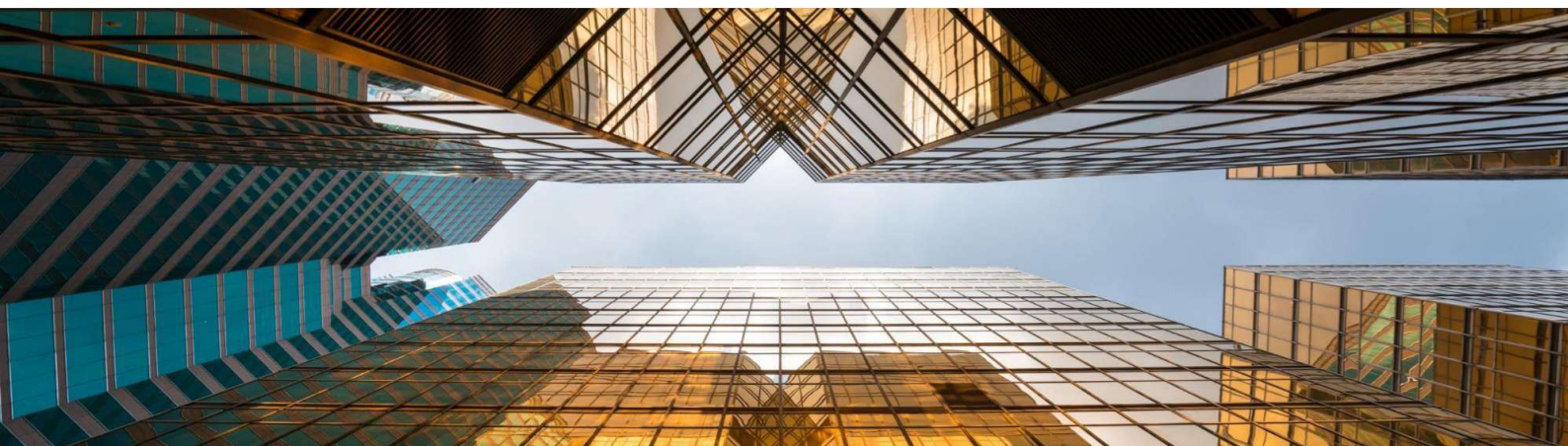
<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

132/156

SAP S/4HANA Migration Cockpit

Appendix

Miscellaneous



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

133/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA Migration Cockpit

Product road map overview

Recent innovations	2021 – Q3/Q4	2022 – Product direction	2023 – Product vision
SAP S/4HANA, SAP S/4HANA Cloud <ul style="list-style-type: none"> More flexible error reporting Additional in-app help capabilities SAP S/4HANA <ul style="list-style-type: none"> Direct Transfer: New migration scenario: SAP APO SPP to SAP S/4HANA eSPP (APO extended Service Parts Planning) 	SAP S/4HANA, SAP S/4HANA Cloud <ul style="list-style-type: none"> Additional migration objects SAP S/4HANA <ul style="list-style-type: none"> File/Staging: <ul style="list-style-type: none"> Transport content from one system to another Mass processing – select and process multiple instances Direct Transfer: <ul style="list-style-type: none"> View the created records and navigate directly to the relevant SAP Fiori app A detailed view of the migration process that gives you more control over the migration SAP S/4HANA Cloud <ul style="list-style-type: none"> Migration object modeler (add released API fields to an existing migration object) Possibility to use staging tables functionality for SAP HANA Cloud on the SAP Business Technology Platform (BTP) 	SAP S/4HANA, SAP S/4HANA Cloud <ul style="list-style-type: none"> Additional migration objects Enhancement of migration scenario EWM <ul style="list-style-type: none"> Enhanced mapping functionality <ul style="list-style-type: none"> File/Staging: <ul style="list-style-type: none"> Support for additional file formats to populate staging tables Functionality to keep custom adjustments after content upgrade View the created records and navigate directly to the relevant SAP Fiori app SAP S/4HANA <ul style="list-style-type: none"> Direct Transfer: <ul style="list-style-type: none"> Show selection results in detail Access to selected data and transformed data in order to facilitate analysis 	SAP S/4HANA, SAP S/4HANA Cloud <ul style="list-style-type: none"> Additional migration objects Additional migration scenarios Improved authorization concept for projects and objects Increased flexibility for managing custom content SAP S/4HANA Cloud <ul style="list-style-type: none"> Direct Transfer for SAP S/4HANA Cloud Enhanced functionality in the migration object modeler for both approaches Migration object modeler <ul style="list-style-type: none"> File/Staging: Wizard for structure and field mapping

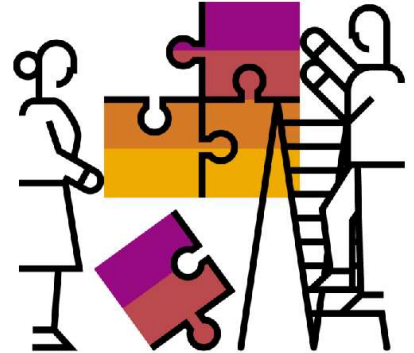
Additional SAP Offerings for Data Migration

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

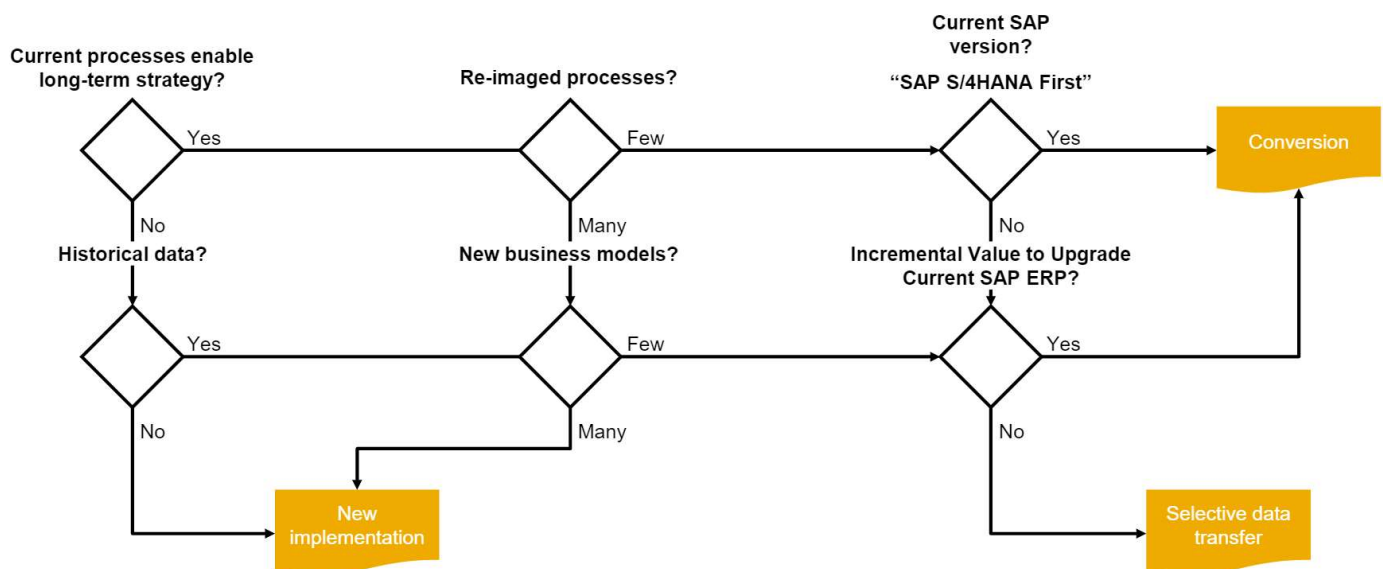
Unit 3 of this week introduces additional migration features for SAP S/4HANA Cloud



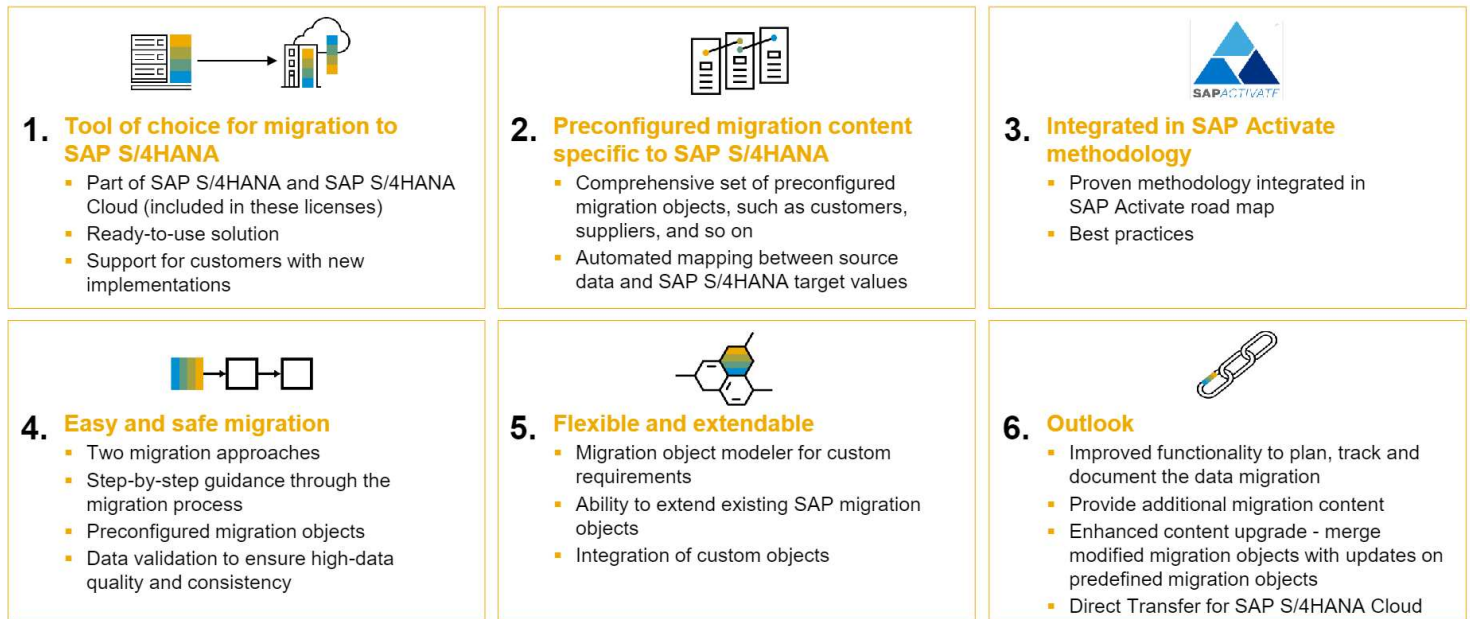
 [Mapping Your Journey to SAP S/4HANA - A Practical Guide for Senior IT Leadership](https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html)

Decision Path to S/4HANA

Influencing factors



Facilitate Migration Projects with SAP S/4HANA Migration Cockpit



Matrix - Data Load into Staging Tables - Recommendation

Connection	Staging Tables located	HANA Enterprise Edition	HANA Runtime License (REAB)
Local SAP S/4HANA DB Schema	Staging tables will be created in same HANA DB schema as SAP S/4HANA.	Fill tables via* <ul style="list-style-type: none"> XML Template files ABAP programming 	Fill tables via* <ul style="list-style-type: none"> XML Template files ABAP programming
Remote SAP HANA Database Schema	Staging tables will be created in a separate HANA DB Schema.	Tables can be filled by all tools of choice – incl. 3 rd party (staging tables can be accessed via DB layer)	Tables can be filled via** <ul style="list-style-type: none"> XML Template files ABAP programming Data Services SLT 3rd Party Tools

* This is SAP's recommendation. In case system administrator provides users and access, technically all tools listed for remote HANA DB schema are possible. Keep auditing process in mind. This is pure on SAP customer side.

** staging tables can not be filled directly on database layer, for example with SAP HANA Studio (SUR Software Usage Rights)

Legal Statement on Use of 3rd Party Tools to Fill Staging Tables in REAB

In addition to the standard options of using either a full-use-version of SAP HANA (i.e. SAP HANA, enterprise edition) or the SAP tools provided as Runtime Software with SAP HANA, runtime edition, it is possible to utilize a 3rd party ETL tool to populate the staging tables for the SAP S/4HANA migration cockpit.

In this case, the staging tables will be created by the SAP S/4HANA migration cockpit in a dedicated schema, either in the same database tenant where SAP S/4HANA is installed or a separate dedicated database tenant. Such a schema can then be configured as a remote database connection enabling connectivity and filled by a 3rd party ETL tool solely for the purpose of consumption by the S/4HANA migration cockpit.

For the avoidance of doubt, the tables may not be used for any kind of processing by SAP HANA outside of SAP S/4HANA migration cockpit, including, but not limited to, calculation view modeling, custom SAP HANA Extended Application Services (XS) applications, and other processing by SAP HANA engines. Furthermore, the use of such 3rd party tools to populate staging tables shall be limited to the timeframe during which a migration project is active in the SAP S/4HANA system installed in the same SAP HANA database tenant.

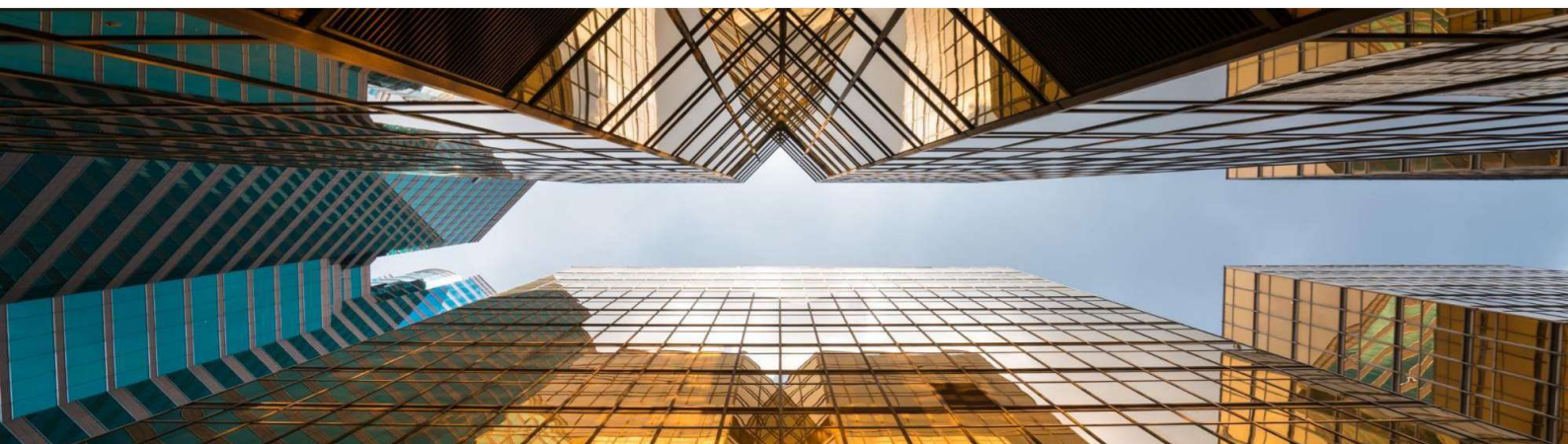
***This information is officially published on help.sap.com – Data Migration Landing Page – Further Information (as of 2020 FPS02)**



SAP S/4HANA Migration Cockpit

Appendix

Project Methodology and Setup



Key Questions to Understand Your Data Migration Requirements

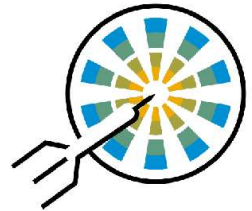
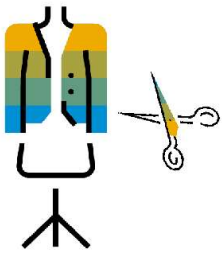
What deployment option is the target / receiver of the data?
SAP S/4HANA or SAP S/4HANA Cloud

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?

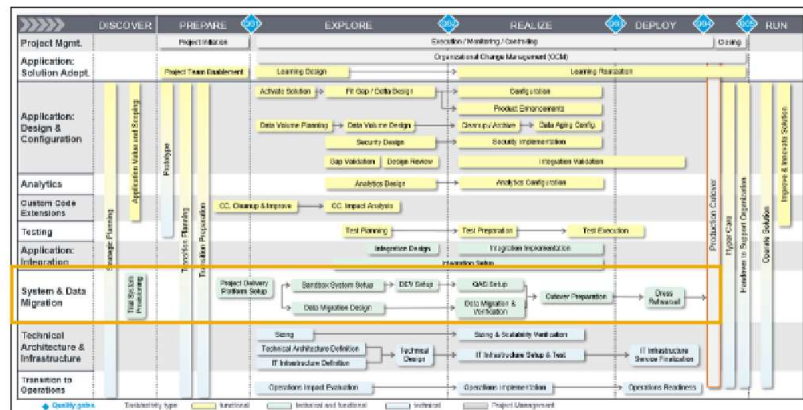


Data Migration in SAP Activate Roadmap



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

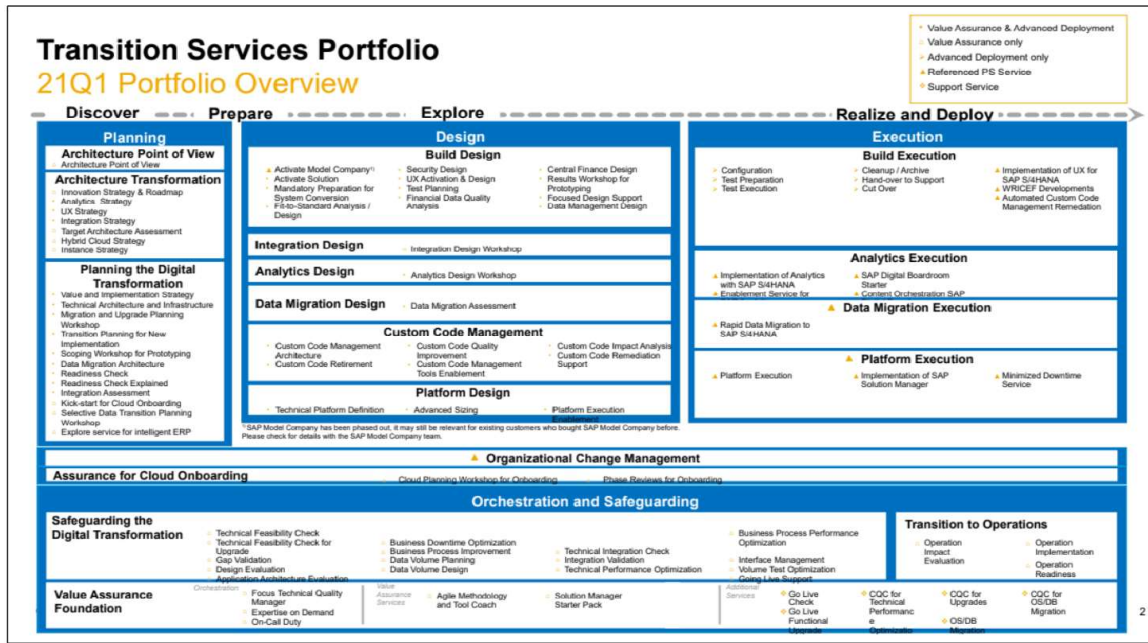
Information about data migration
is represented within the workstream
system & data migration.



SAP Activate roadmap viewer

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

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



[SAP Implementation Service Packages | SAP Value Assurance](#)

[SAP Value Assurance Availability Extended to Cloud | SAP News Center](#)

Contact Thomas Wolf

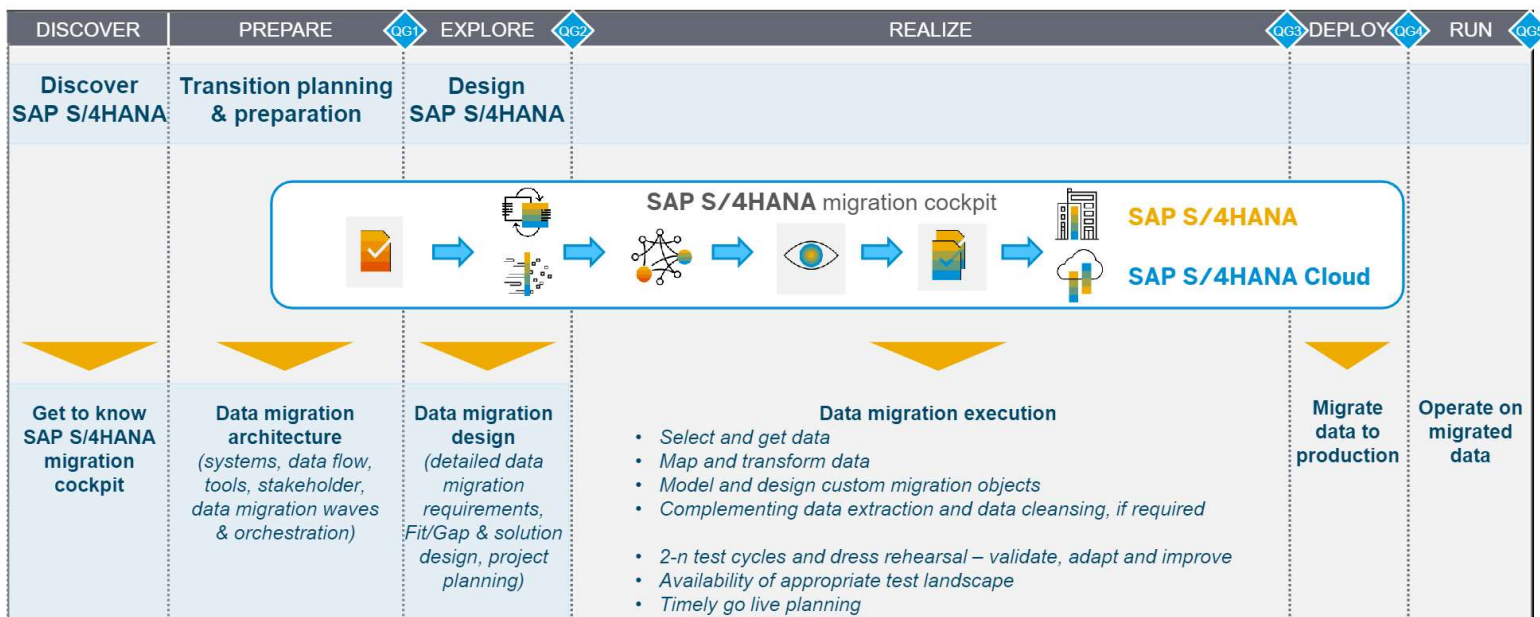
143

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

143/156

Additional SAP Offerings for Data Migration

Data migration activities mapped to SAP Activate



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

144

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

144/156

Business Data Migration to SAP S/4HANA

Key roles and tasks in customer's project team

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

* Roles may differ on Cloud context

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

145

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

145/156

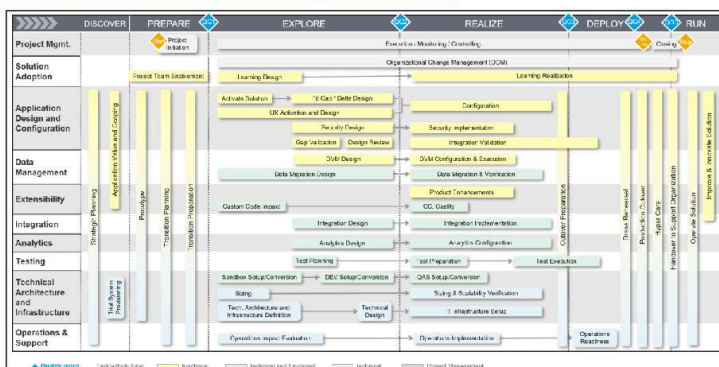
27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

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



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

[Back to agenda](#)

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>

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

146/156

SAP S/4HANA Migration Cockpit

Appendix

Re-cap - What was new with 2020?



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

147/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

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

What was new in SAP S/4HANA 2020?

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

SAP S/4HANA 2021



<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

148/156

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

What was new in SAP S/4HANA 2020 FPS01

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

SAP S/4HANA 2021



© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

149/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP S/4HANA 2021

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

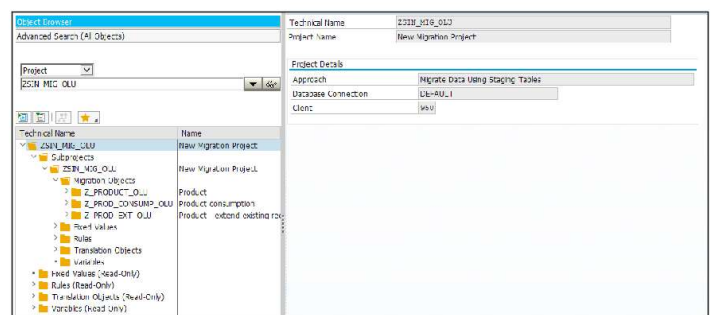
SAP S/4HANA Migration object modeler – what was new with SAP S/4HANA 2020



Flexible and extendable



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



Transaction:
LTMOM

*This does not apply for projects created with LTMC.

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

150

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

150/156

SAP S/4HANA Migration Cockpit – Direct Transfer

What was new in 2020?

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

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

SAP S/4HANA 2021



151/156

SAP S/4HANA Migration Cockpit – Direct Transfer

What was new in 2020 FPS01?

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

© 2022 SAP SE or an SAP affiliate company. All rights reserved. | PUBLIC

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

SAP S/4HANA 2021



152/156



SAP S/4HANA Migration Cockpit – Direct Transfer

SAP S/4HANA Migration object modeler – what was new in 2020?

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

Thank you.

Standard slide deck SAP S/4HANA :	Migrate Your Data to SAP S/4HANA – SAP S/4HANA Migration Cockpit
Standard slide deck SAP S/4HANA Cloud:	Migrate Your Data to SAP S/4HANA Cloud – SAP S/4HANA Migration Cockpit
Video:	Migrate Data Using Staging Tables
Video:	Migrate Data Directly from SAP System
Data migration landing pages	http://help.sap.com/S4_OP_DM or http://help.sap.com/S4_CE_DM
Community topic page	https://community.sap.com/topics/s4hana-migration-cockpit/
Click through tutorials	SAP S/4HANA migration cockpit
Classroom Training	S4D445 Data Migration using the SAP S/4HANA Migration Cockpit (based on 1909; chargeable)

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

Find a comprehensive FAQ list in the SAP S/4HANA migration cockpit Community:
<https://www.sap.com/documents/2020/12/ec514ba3-c37d-0010-87a3-c30de2ffd8ff.html>

Follow us

www.sap.com/contactsap

© 2021 SAP SE or an SAP affiliate company. All rights reserved.

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

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

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

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

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

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

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

155/156

27/06/2022 14:07

SAP S/4HANA Migration Cockpit - Migrate your Data to SAP S/4HANA

SAP folgen auf

www.sap.com/germany/contactsap

© 2021 SAP SE oder ein SAP-Konzernunternehmen. Alle Rechte vorbehalten.

Weitergabe und Vervielfältigung dieser Publikation oder von Teilen daraus sind, zu welchem Zweck und in welcher Form auch immer, ohne die ausdrückliche schriftliche Genehmigung durch SAP SE oder ein SAP-Konzernunternehmen nicht gestattet.

In dieser Publikation enthaltene Informationen können ohne vorherige Ankündigung geändert werden. Die von SAP SE oder deren Vertriebsfirmen angebotenen Softwareprodukte können Softwarekomponenten auch anderer Softwarehersteller enthalten. Produkte können länderspezifische Unterschiede aufweisen.

Die vorliegenden Unterlagen werden von der SAP SE oder einem SAP-Konzernunternehmen bereitgestellt und dienen ausschließlich zu Informationszwecken. Die SAP SE oder ihre Konzernunternehmen übernehmen keinerlei Haftung oder Gewährleistung für Fehler oder Unvollständigkeiten in dieser Publikation. Die SAP SE oder ein SAP-Konzernunternehmen steht lediglich für Produkte und Dienstleistungen nach der Maßgabe ein, die in der Vereinbarung über die jeweiligen Produkte und Dienstleistungen ausdrücklich geregelt ist. Keine der hierin enthaltenen Informationen ist als zusätzliche Garantie zu interpretieren.

Insbesondere sind die SAP SE oder ihre Konzernunternehmen in keiner Weise verpflichtet, in dieser Publikation oder einer zugehörigen Präsentation dargestellte Geschäftsabläufe zu verfolgen oder hierin wiedergegebene Funktionen zu entwickeln oder zu veröffentlichen. Diese Publikation oder eine zugehörige Präsentation, die Strategie und etwaige künftige Entwicklungen, Produkte und/oder Plattformen der SAP SE oder ihrer Konzernunternehmen können von der SAP SE oder ihren Konzernunternehmen jederzeit und ohne Angabe von Gründen unangekündigt geändert werden. Die in dieser Publikation enthaltenen Informationen stellen keine Zusage, kein Versprechen und keine rechtliche Verpflichtung zur Lieferung von Material, Code oder Funktionen dar. Sämtliche vorausschauenden Aussagen unterliegen unterschiedlichen Risiken und Unsicherheiten, durch die die tatsächlichen Ergebnisse von den Erwartungen abweichen können. Dem Leser wird empfohlen, diesen vorausschauenden Aussagen kein übertriebenes Vertrauen zu schenken und sich bei Kaufentscheidungen nicht auf sie zu stützen.

SAP und andere in diesem Dokument erwähnte Produkte und Dienstleistungen von SAP sowie die dazugehörigen Logos sind Marken oder eingetragene Marken der SAP SE (oder von einem SAP-Konzernunternehmen) in Deutschland und verschiedenen anderen Ländern weltweit. Alle anderen Namen von Produkten und Dienstleistungen sind Marken der jeweiligen Firmen.

Zusätzliche Informationen zur Marke und Vermerke finden Sie auf der Seite www.sap.com/corporate/de/legal/copyright.html.

<https://www.sap.com/documents/2017/07/26113ac0-c47c-0010-82c7-eda71af511fa.html>

156/156