

# SAP S/4HANA migration cockpit SAP S/4HANA 2023 FPS01

Public

For **SAP S/4HANA Cloud, public edition** see: **SAP S/4HANA Migration Cockpit** 

## Agenda

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**Appendix** 

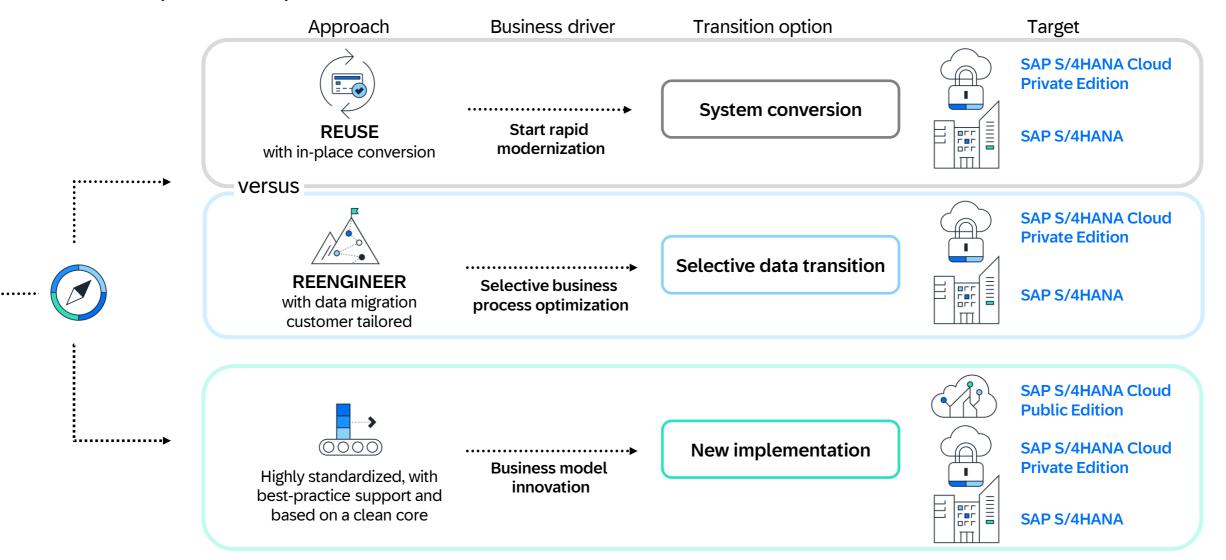
01

## Introduction

Your Way to SAP S/4HANA

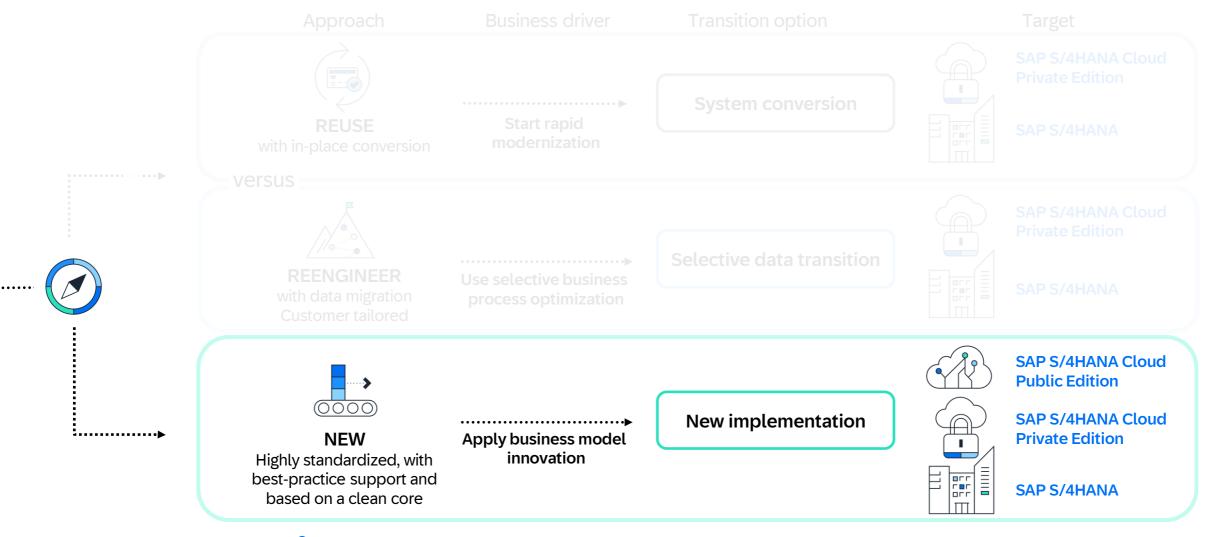
#### **Transition to SAP S/4HANA**

#### Transition paths recap



#### **Transition to SAP S/4HANA**

#### Transition paths recap



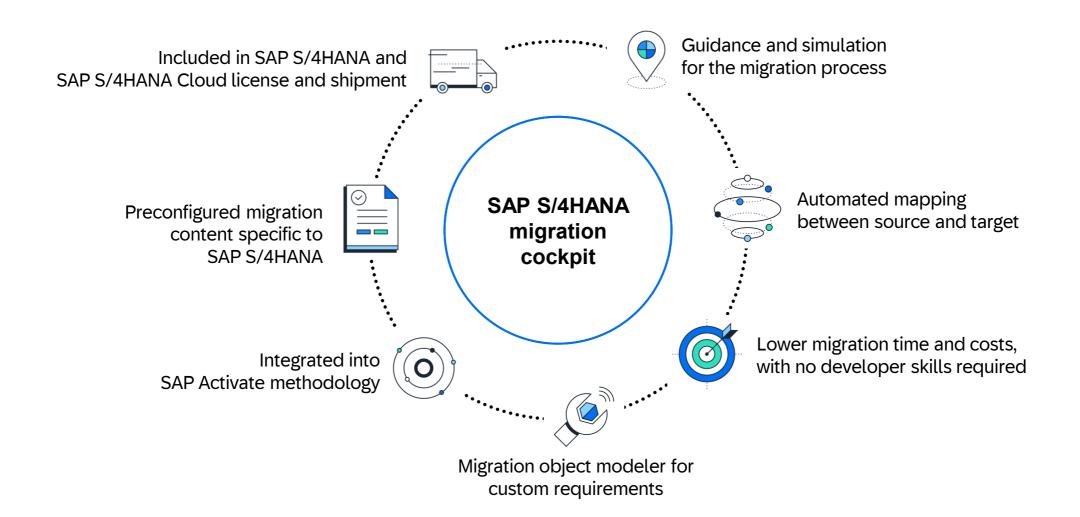
## 02

## **Functions & Process**

- SAP S/4HANA migration cockpit

## Facilitate Migration Projects with SAP S/4HANA Migration Cockpit

Transition scenario: new implementation



Public

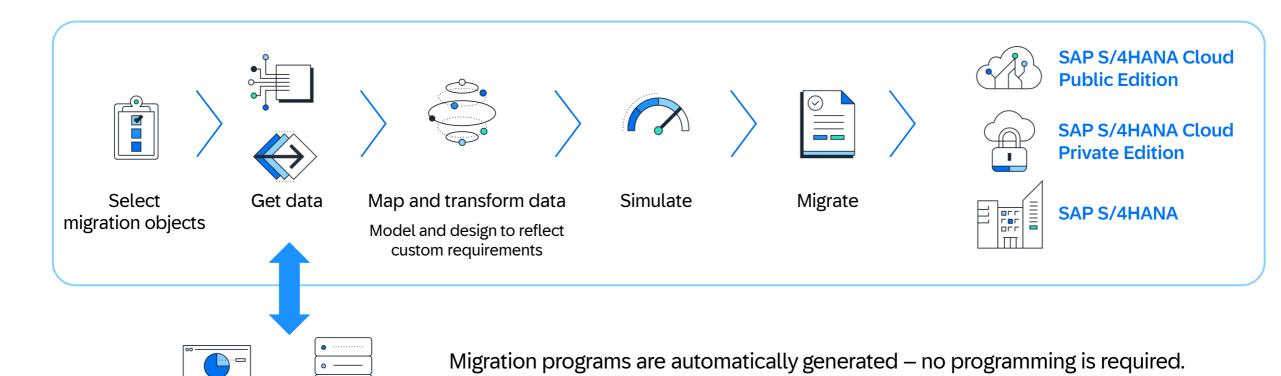
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## Data Migration Process with SAP S/4HANA Migration Cockpit

Overview

**SAP Business Suite** 

Legacy



Public

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Step: select migration objects





#### **Preconfigured SAP S/4HANA-specific migration content**

#### What is a migration object?

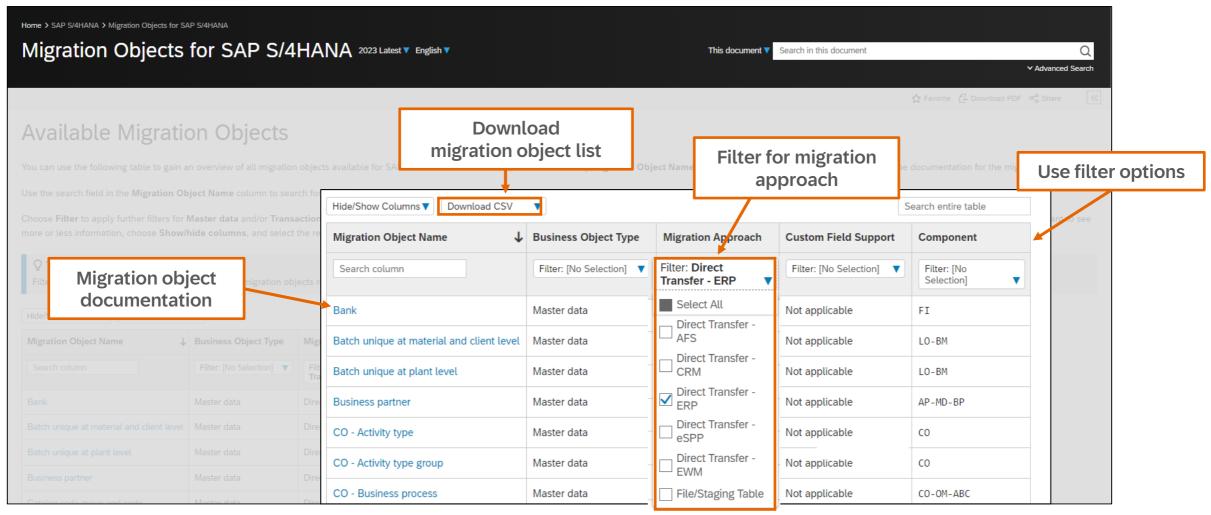
- Represents a business entity in SAP S/4HANA, such as a customer, sales order, or invoice
- Encapsulates the logic to create the specific business entities through the corresponding APIs offered by SAP S/4HANA
- Is delivered by SAP based on SAP Best Practices configuration and is immediately ready to use
- Is categorized in master data and transactional data (no historical data)
- Contains rules how values from source to target are handled called "mapping"
- Can be extended with the SAP S/4HANA migration object modeler

#### What is migration content?

Migration content is the sum of all migration objects









Migration object list in SAP Help Portal (SAP S/4HANA) - http://help.sap.com/S4 OP MO

Step: get data – different options



Two different migration approaches, depending on the source system:





Migrate Data Using Staging Tables	Migrate Data Directly from SAP System (Direct Transfer)
<ul> <li>Staging tables are created automatically in SAP HANA DB (either locally or in a remote system)</li> </ul>	<ul> <li>Connect source system (ABAP-based SAP source systems) via RFC connection</li> </ul>
<ul> <li>Populate these staging tables with business data using:</li> <li>XML template files</li> <li>CSV template files</li> <li>SAP or third-party ETL tools</li> </ul>	<ul> <li>Selection</li> <li>Based on predefined selection criteria (for example company code for ERP source system) and selected migration objects</li> <li>Can be adapted with the SAP S/4HANA migration object modeler</li> <li>Supports data migration scenarios from SAP ERP, SAP AFS, SAP APO SPP, SAP CRM, SAP EWM</li> </ul>

Step: map and transform





## **Automated mapping between source & target**

#### What is a mapping?

Data transformation between a data source and a destination. Here, you link the source values, which were extracted from the source system to the values and formats of the SAP S/4HANA system.

Example:	Source Country Key	Target Country Key
	Deutschland	DE
	USA	US

- The migration cockpit automatically provides proposals for mapping values, if possible. 1:1 mappings and rules are predefined by SAP.
- The mappings have to be maintained only once, they are used for all objects within a project.

**Example:** You maintain the country key for migration object BANK, then all other objects in your project will use the same mapping.



Check the object-related documentation for details on mapping.

Especially for Staging, it is not necessary that the extracted data has to be provided how SAP S/4HANA would expect.

Step: simulate and migrate



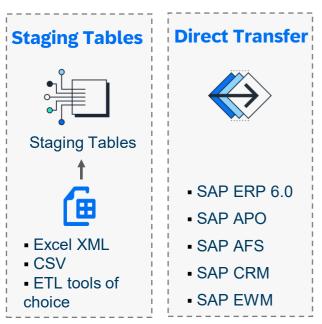


#### **Guidance and simulation for the migration process**

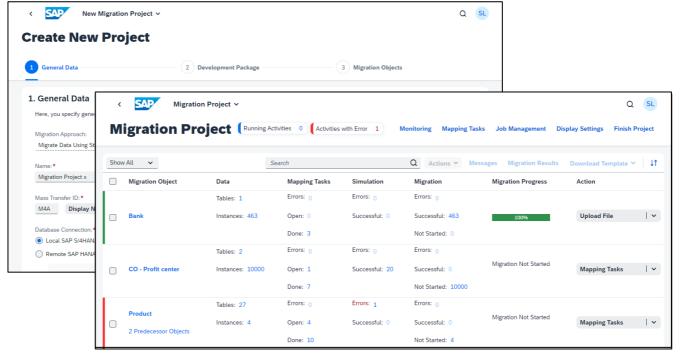
- Data is posted to the SAP S/4HANA system via standard APIs. Therefore, data is created like it were entered manually into the SAP system.
- All logical and semantic checks are done in the API.
- During the simulation process, no data is written to the target system, but you can view all the messages that would occur during an actual data transfer (for example information about a cost center that does not exist).
- Objects can be simulated/migrated one by one keep dependencies in mind.
- There is no migration at database table level.
- It is possible to simulate/migrate only specific migration object instances (single instances or a set of instances).

#### SAP Fiori App Migrate Your Data





#### **Process & content**







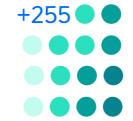


SAP S/4HANA Cloud
Private Edition



14

+220 Migration objects
Staging



Migration objects Direct Transfer

What it is designed for (in/out of scope)



#### Designed for:

- Initial load of data master data, open transactional data, no historical data
- Used in context of a new implementation of SAP S/4HANA
   SAP S/4HANA, SAP S/4HANA Cloud Private Edition, and SAP S/4HANA Cloud Public Edition



#### Not designed for:

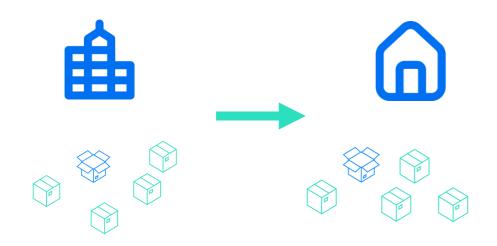
- Keep data in sync across systems\*
- Realize a continuous exchange or flow of data\*
- Establish an integration scenario\*
- Data cleansing
- Migrating data directly from SAP S/4HANA system to other SAP S/4HANA systems independent of deployment option is currently not supported.

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<sup>\*</sup> For this purpose SAP products like SAP Master Data Governance, Central Finance, Product Data Replication or SAP LT Replication Server or SAP Data intelligence are available (list does not claim to be complete).

Background: Historical data

Do you remember the last time you moved house?



- SAP S/4HANA migration cockpit is designed for a new implementation.
- No migration objects for historical data in migration cockpit\*.
- Only the data necessary for a smooth business start is migrated.
- A comprehensive customer-specific evaluation makes sense.
   Solutions like Business Warehouse or side-by-side extensibility can be considered.

#### **Examples:**

- The migration of closed documents leads to postings which are already included in the balances; there are no longer open items for those documents.
- For partially open items, only the remaining quantities or values should be migrated.

\* Exception: FI – Historical balance migration object see SAP Note 2943035

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#### **Video**

**Migrate Data Using Staging Tables** 



#### **Video**

**Using CSV Files to Fill Staging Tables** 



#### **Video**

Migrate Data Directly from SAP System





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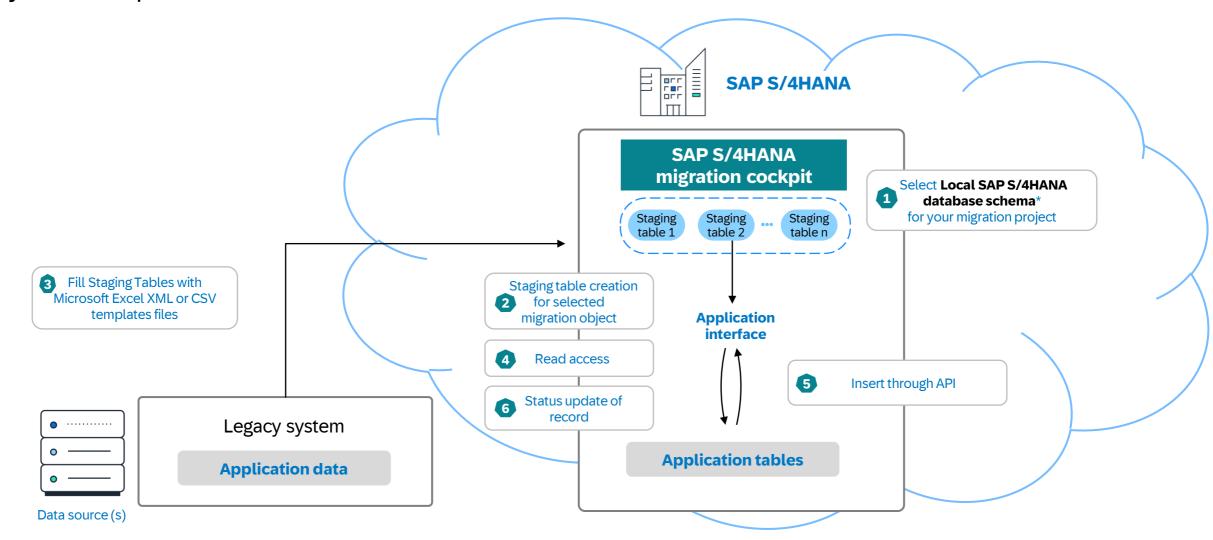
03

## System Setup

- SAP S/4HANA migration cockpit



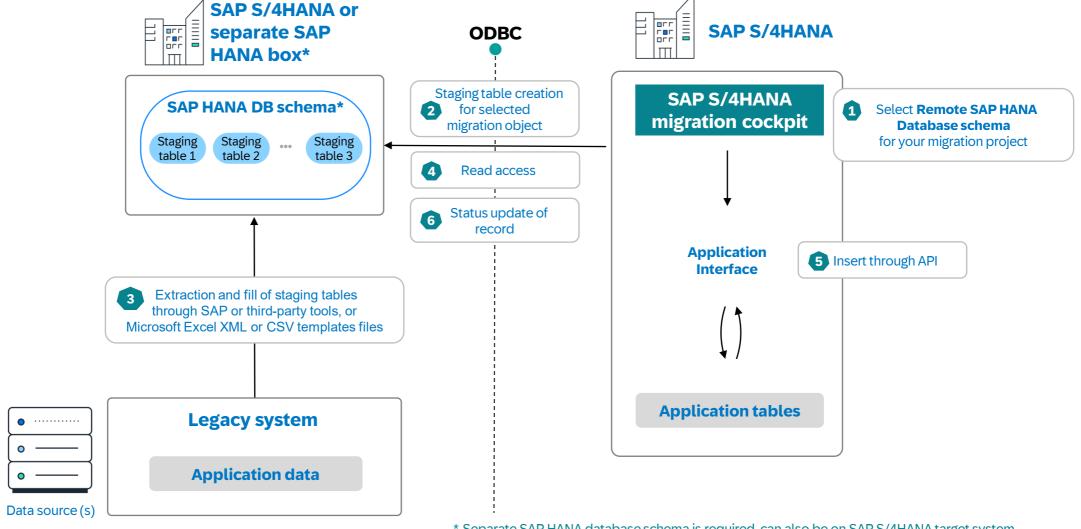
System setup SAP S/4HANA Cloud - local SAP HANA database schema



<sup>\*</sup> Staging Tables reside within the SAP S/4HANA schema



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

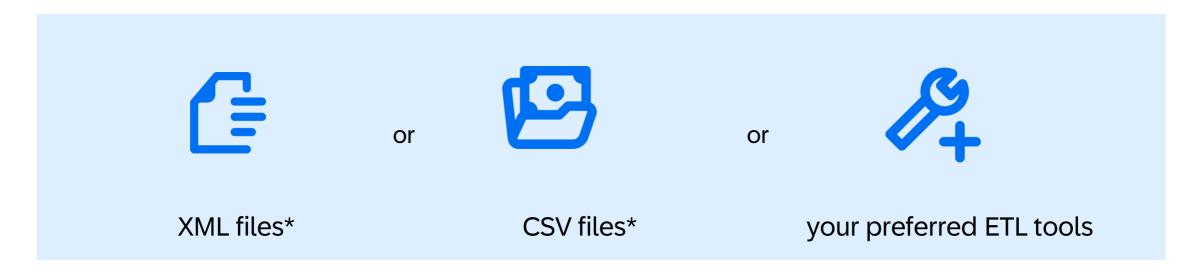


<sup>\*</sup> Separate SAP HANA database schema is required, can also be on SAP S/4HANA target system

<sup>\*\*</sup> Prerequisite: established secondary database connection

How to fill the staging tables?

You can fill the staging tables by using:





There is a sample code for a file splitter tool that can help splitting big xml files. Details available in <u>GitHub</u>. Note that this is a sample code only!

<sup>\*</sup> The size limit for each file is 100MB. You can upload multiple files at once by using a zip file. Note that the combined size of all the files you want to add to the zip file must not exceed 160MB. The maximum permitted size of the zip file is 100MB. For more information see KBA 2719524



Matrix - data load into Staging Tables - recommendation

Connection	Staging Tables located	HANA Enterprise Edition	HANA Runtime License (REAB)
Local SAP S/4HANA DB Schema Standard use case	Staging tables will be created in same HANA DB schema as SAP S/4HANA	Fill tables via*  ML/CSV template files ABAP programming	Fill tables via*  XML/CSV template files ABAP programming
Remote SAP HANA Database Schema Specific customer use case	Staging tables will be created in a separate HANA DB Schema.	Tables can be accessed via DB layer or filled via  XML/CSV template files ABAP programming Data Services SLT 3rd Party Tools	Tables can be filled via**  XML/CSV template files  ABAP programming  Data Services  SLT  3rd Party Tools

<sup>\*</sup> This is the recommendation from SAP. However, if your system administrator provides access to the relevant tables on database level, it is possible to use the tools listed for remote SAP HANA Database Schema below to access the tables.

<sup>\*\*</sup> Staging tables cannot be filled directly on database level, 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.

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



## Technical preconditions

#### **Available for**

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

For more information about supported releases, see <u>help.sap.com</u>.



The SAP S/4HANA Migration Cockpit **does not support** the migration of data from SAP S/4HANA systems to other SAP S/4HANA systems\*.

#### **Necessary preparations in the system landscape**

- Add-on DMIS needs to be installed in the source system (included in the license for SAP S/4HANA), check SAP Note 2973957
- RFC connection from ERP/AFS/EWM/CRM/APO SPP source to SAP S/4HANA target system\*\*
- Further details in section "Project Setup"

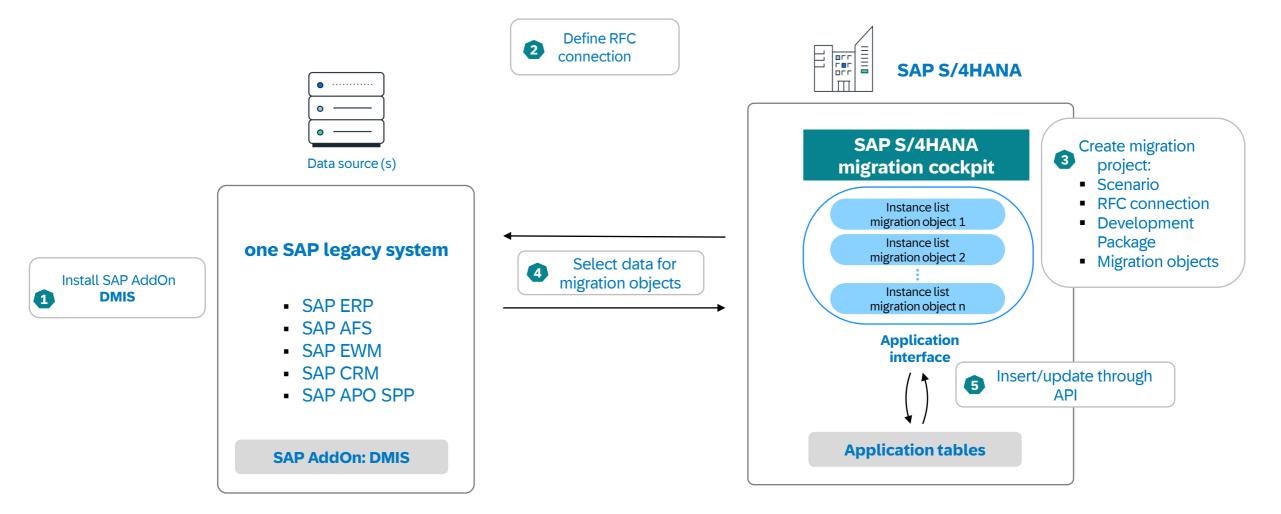
<sup>\*</sup> SAP S/4HANA Finance systems (previously known as SAP Simple Finance) are classified as SAP S/4HANA systems.

<sup>\*\*</sup> Caution: It is not supported to use RFC connections with trusted log on .

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



System setup

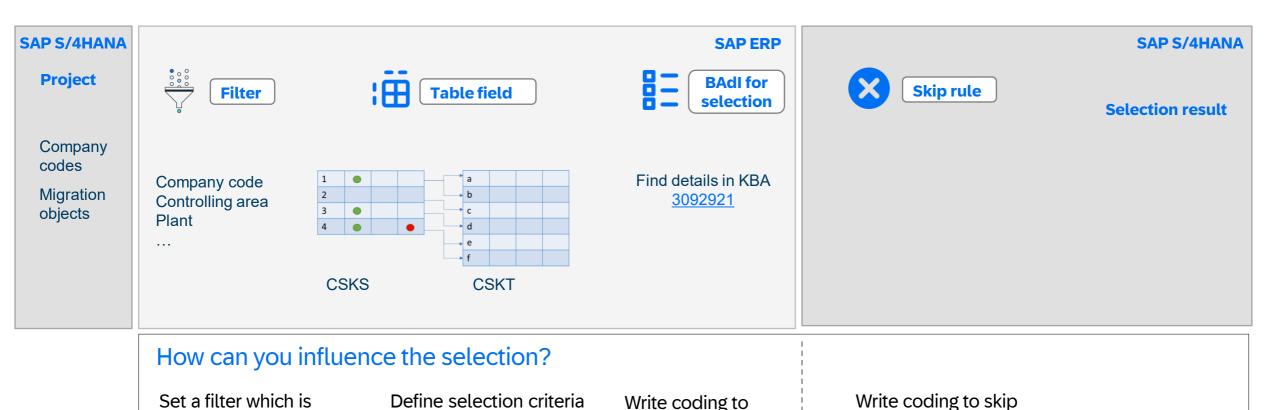


## SAP S/4HANA Migration Cockpit – Migrate Data Directly from SAP System



Influence the selection - adapt in transaction LTMOM

delivered by SAP



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define the selection

items from selection

on table field level

migration object (affected tables)

**inheritance of restriction** within the data model of the

## 04

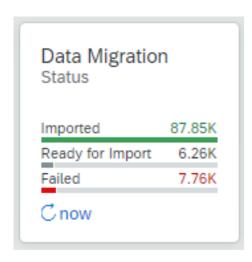
## What 's New in 2023

#### All details in

SAP S/4HANA Migration Cockpit - Development News SAP S/4HANA 2023



What's New in 2023? Data Migration Status App



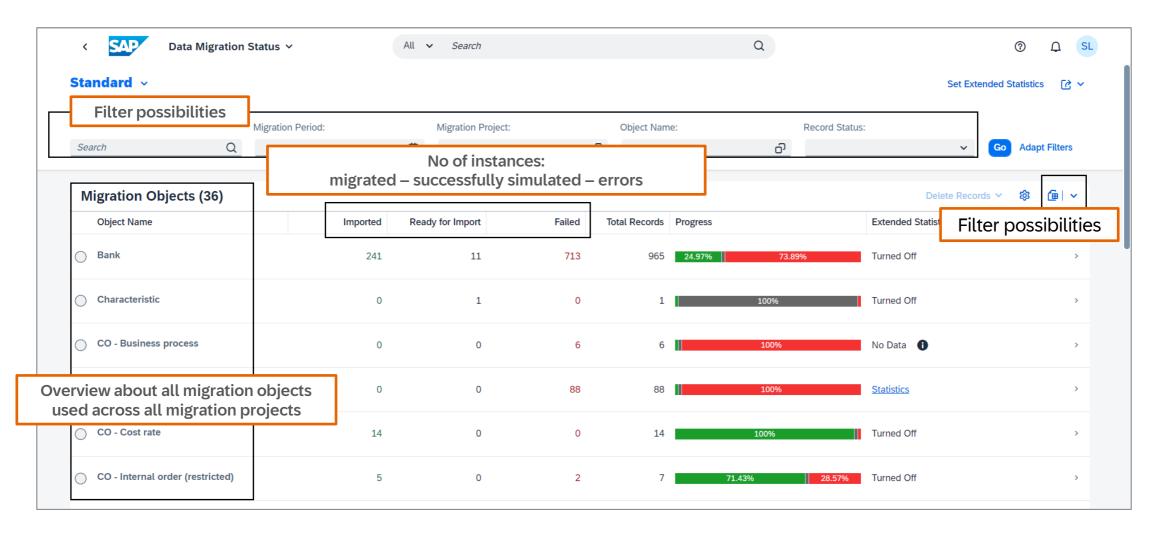
SAP Fiori App Data Migraton – Status

- Real time overview cross migration projects and migration objects
- Audit functionality for migrated data
- Included in standard business role template for data migration\*
- Application Help: <a href="http://help.sap.com/S4">http://help.sap.com/S4</a> OP DM STATUS
- Video: <u>Data Migration Status</u>
- App ID: <u>F3280</u>
- Available for staging projects only

<sup>\*</sup> Business Role Template: Configuration Expert – Data Migration SAP\_BR\_CONFIG\_EXPERT\_DATA\_MIG
To exclude the audit authorization from your general data migration user, you need to remove the Data
Migration - Audit (SAP\_CA\_BC\_MIG\_CNTNT\_PC) business catalog from the role.



What's New in 2023? Data Migration Status App — Initial Screen

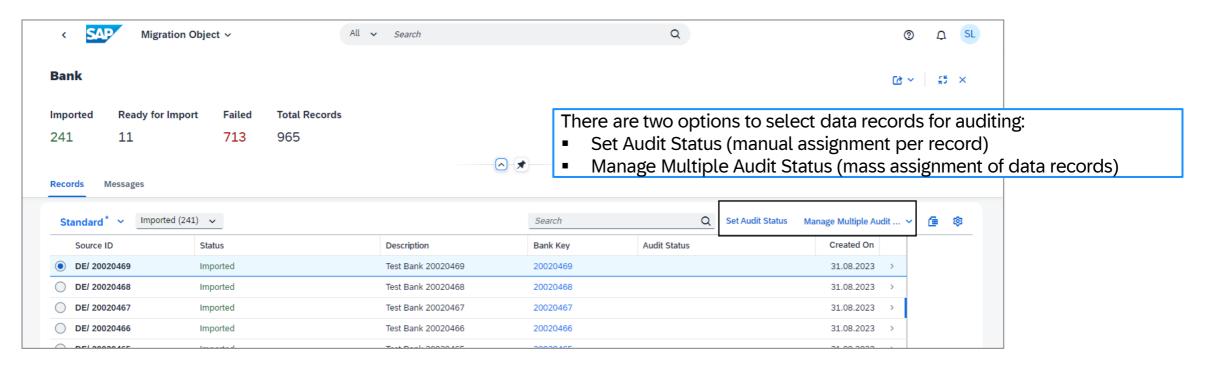




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What's New in 2023? Data Migration Status App - Audit

The Data Migration Status app provides audit functionality to help validate for your imported data records.

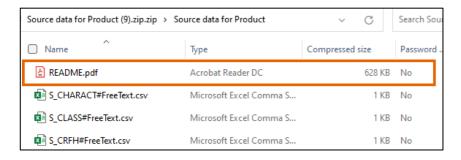


#### **Audit Status**

- Approved (data record was validated and is okay)
- Rejected (data record was validated but has errors)
- Pending (data record needs to be validated)



#### What's New in 2023? CSV files





**A readme** file is available for each migration object with information about the data structures as well as how to enter data in the files.

#### **Template Field List** In the table below, you can view more detailed information about the fields. For example, you can view the name of the field as well as the data type and length. Basic Data (S\_MARA) **Fieldname** Description Mandatory Type Length Decs Comment PRODUCT Product Number √ Text A key that uniquely identifies the product. Header Data Key that assigns the product to a group of products such as MTART ✓ Text Product Type raw product, finished product or trading goods. Specifies the category of the product. For example, whether Header Data (Retail) Text **ATTYP** Product Category it is a single product, a sales set, a generic product or a Key uniquely identifying a generic product to which the Configuration Product for SATNR Text variant is linked. Retail Variant Header Data Key that you use to group together several products or MATKL Product Group Text services with the same attributes, and to assign them to a particular product group. Text that describes the product in more detail. Note: You can maintain additional descriptions (for MAKTX **✓** Text Description languages other than those provided on the 'Basic Data'

### SAP S/4HANA Migration Cockpit – Direct Transfer



What's New in 2023? Object Versions

#### New

Object versions are introduced. Once an update for a migration object is available, you are notified. A new version can come into your system by a release upgrade, a feature pack stack or a TCI note.

You can add the new object version into your project by going to the Migration Object Modeler and clicking: project, create migration object, from template.



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## Recommendation

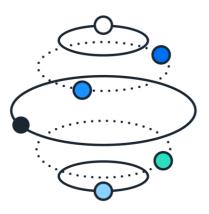
- Project Setup

## SAP S/4HANA Migration Cockpit – Define Migration Strategy

#### General considerations

It is important to determine how data is transferred from the legacy system to the new system as early as possible.

There are many influencing factors that could drive the appropriate approach for a specific system. Some factors to consider include, but are not limited to:

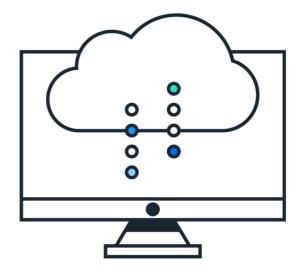


- Amount of business data to be transferred and converted
- Permitted business downtime
- Data changes in scope during migration
- Type of data in scope for migration
- Business data quality of the source system
- Check customizing

Relevant customizing in the target must be available (for example, organizational units, define document type for migration, define accounts for migration, remove account blocks)

## SAP S/4HANA Migration Cockpit – Setup Your Project Different migration approaches

- Check early on whether you want to use one or both approaches
  - Availability of migration objects is not 100% identical in both approaches
  - There might be reasons to use staging for individual objects e.g. high demand for data cleansing, low data volume
- Using both approaches means:
  - You need at least two projects (one project cannot combine both approaches).
  - You have to keep the mapping in sync between the projects, KBA 2976393.



## SAP S/4HANA Migration Cockpit – Setup Your Project

How many projects?

#### Use only **one project**



- Mapping values valid for all migration objects
- Central overview and control of the migration
- For Direct Transfer: If you need different selection criteria for one migration object (e.g. only material category A, then material category B), you can add the same migration object several times to a project.

#### Use **several** projects

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

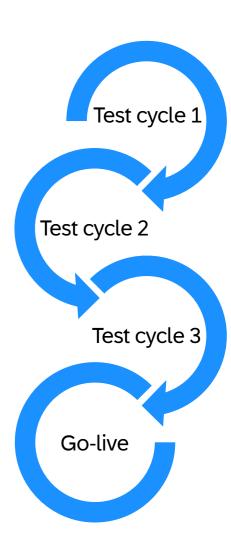


- You must keep mapping in sync across the projects – this is additional effort and error-prone
- If you use internal numbering for a migration object, you can only upload this mapping after it has been created.
- Distributing migration objects across multiple projects does not improve performance. See <u>KBA</u> 3065607 (Staging) and <u>KBA 3056885 (Direct</u> <u>Transfer)</u>.

# SAP S/4HANA Migration Cockpit – Setup Your Project

## Project setup and planning

- Plan your test cycles and go-live date
  - Do not underestimate the complexity even in case of Direct Transfer
  - If a release change is unavoidable, plan extra effort
  - Plan effort for system refreshes for several test cycles
  - First, create a project in a development system and then transport the project to a test system (test system 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.
- Check available migration objects delivered by SAP (<u>link</u>).
- Plan effort and time for requirements which are **not** covered by the SAP objects
- Plan time for analyzing and solving application issues during the tests
- Think about mappings early
- Plan performance tests (involve basis expert)



## SAP S/4HANA Migration Cockpit

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?

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

- Staging: migration objects can be updated, but check in detail release comparison. Tests are necessary.
- Direct Transfer: migration objects cannot be updated, you need to create new project in the new release.

# SAP S/4HANA Migration Cockpit – Prepare Your System

Important SAP notes — note analyzer



Before starting a project, use Note Analyzer to ensure all corrections are implemented - <u>SAP Note 3016862</u> (Transaction CNV\_NA\_MC)

**Installation Guide** 

SAP S/4HANA 2023, Chapter 7 SAP Note for migration cockpit (Basis)

2780378

**SAP Note for Direct Transfer** 

2747566

**SAP Note for File/Staging** 

**2537549** 



Check SAP HotNews: KBA 2342391: How to access and use the SAP HotNews application

## **Best Practices and Challenges**

Mass changes

SAP S/4HANA migration cockpit does not support mass changes! The APIs used in the migration cockpit are APIs to create data.

**Mass change functionality may be available** after an initial data migration for some migration objects in the respective application.

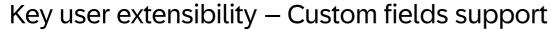
Mass processing of master data for **product**, **customer**, **and supplier** is available. See <u>Help Portal</u> for further information.



You find this information in the migration object documentation for <u>Customer</u>, <u>Product</u>, and <u>Supplier</u> in the *Post-Processing* section.

In addition, you can check <u>SAP Fiori Apps Reference Library</u> to see if the mass change/maintenance app is available for a specific application.

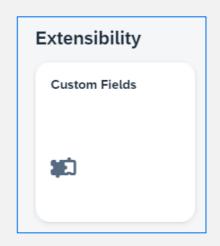
## Best practices and challenges



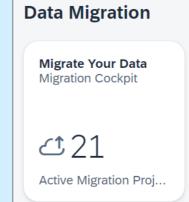


### **Key-user extensibility**

- Business expert or implementation consultant can use the <u>Custom</u> <u>Fields</u> app to create additional fields.
- Example: Add productrelated bonus to product master data; see video.







# SAP S/4HANA migration cockpit

- Some migration objects support these custom fields – check migration object list (details next slide)
- If supported, custom fields are automatically reflected in the template of the corresponding migration object.

#### SAP S/4HANA

#### Classic extensibility

Classic custom ABAP development model to extent ABAP-based onpremise SAP solutions

#### **Key User Extensibility**

Extend and adapt the core SAP S/4HANA with built-in key user extension capabilities

#### Developer extensibility

Extend by developing custom ABAP code in an upgradestable, cloud ready programming model

#### Side-by-side Extensibility

Extend by building new apps on SAP Business Technology Platform

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

	Migrate data using Staging Tables	Migrate data directly from SAP system		
Availability	SAP S/4HANA Cloud, SAP S/4HANA public edition private edition	SAP S/4HANA Cloud, SAP S/4HANA private edition		
Source System	Any source system (SAP or non-SAP)	ABAP-based SAP source systems:  SAP ERP SAP EWM SAP APO SAP CRM SAP AFS		
Data Provisioning	<ul> <li>XML files</li> <li>CSV files</li> <li>Preferred ETL tool (using for example SAP Data Services, SDI, ABAP, or any 3rd party ETL tool)</li> </ul>	Data selected and extracted directly from SAP system via RFC connection		
Data Cleansing	Before starting the migration project, or in the XML template files, 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		
No. of available objects	210+	250 +		

## Best practices and challenges

Data migration project checklist in a nutshell



#### Get an overview

- Which migrations objects are relevant?
- How many **records** do we have?
- Do we migrate them manually or automatically?
- Do we have the necessary resources to prepare and migrate them?

#### **Understand**

- Have all required processes been discussed and set up in the system?
- Do I have the **knowledge** to do my daily business in the new system?
- Do I understand the concepts and processes of the new system?
- What are the dependencies between the migration objects?

#### **Prioritize and focus**

- Which migration objects are really business critical?
- Which records are really business critical?
- What is the single most important next step?

### **Simplify**

- Can migration tasks be simplified or automated?
- Can we reduce the administrative workload?
- Can we reduce the business workload?

#### Align

- Have we aligned and communicated a common project and cutover plan?
- Have dependent streams aligned on a migration approach and the exchange of relevant mappings and information?

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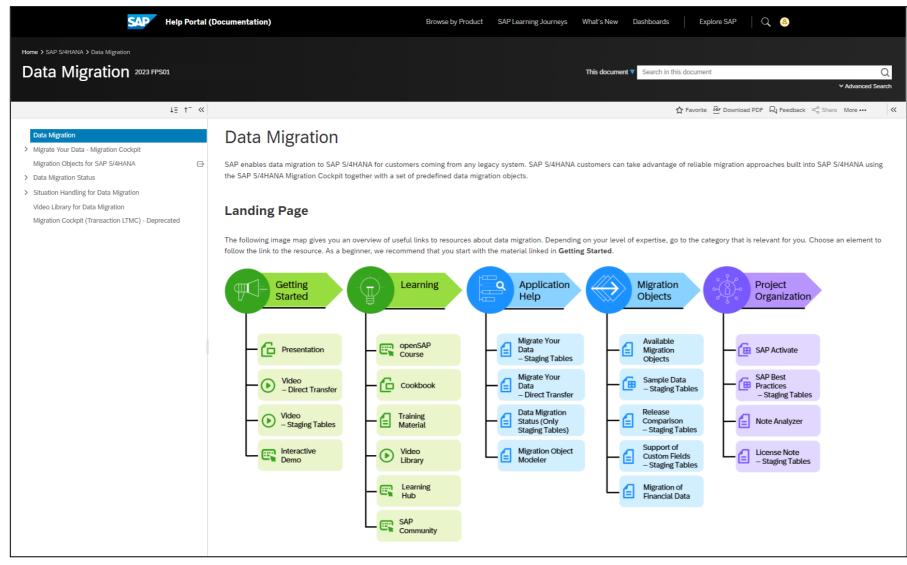
# **Further Information**

- And Resources

ublic .

## Data Migration Landing Page on SAP S/4HANA SAP Help Portal

https://help.sap.com/S4\_OP\_DM



S4: SAP S/4HANA

OP: onPrem, Private Cloud

DM: Data Migration

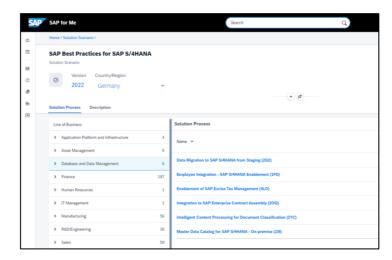
# Introduction to data migration

### Sources to support you in your migration process





- Access implementation guidance for your digital transformation
- View and download SAP Activate methodology assets and accelerators
- https://go.support.sap.com/roadmap viewer/#



## SAP Best Practices via SAP Signavio Process Navigator

- Access and download SAP Best Practices content
- Power your project with ready-to-run business processes
- https://me.sap.com/processnavigator

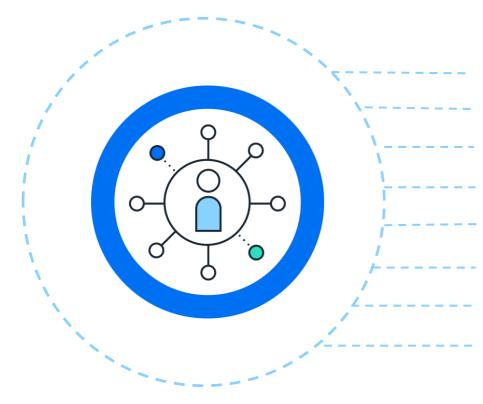


# Data Migration Landing Page on SAP Help

- Access documentation Application Help
- View additional slide decks and training information
- http://help.sap.com/S4 OP DM

## **Further Links and Information**

### Without need of an installation



Available migration objects <a href="http://help.sap.com/S4">http://help.sap.com/S4</a> OP MO

Migration object changes release comparison\*

Support of Custom fields <a href="Staging Tables">Staging Tables</a>\*

Migration Template Samples <a href="Staging Tables">Staging Tables</a>\*

Migration Object Modeler Deep Dive <u>Staging Tables</u>, <u>Direct Transfer</u>

Data Migration Status app <a href="http://help.sap.com/S4">http://help.sap.com/S4</a> OP DM STATUS

Further **Training Material** 

Transport Concept <u>Staging Tables</u>, <u>Direct Transfer</u>

# 07

# **Key Take Aways**

- SAP S/4HANA migration cockpit

# **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?

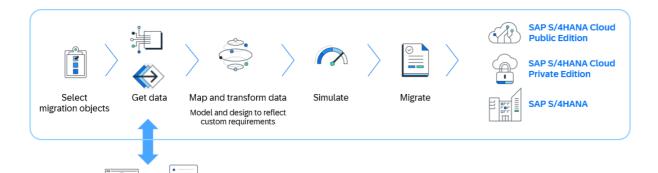


Bottom Line: Start as early as possible and test, test, test

## **Key Takeaways**

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

- SAP's recommended tool for initial data load in new implementation scenarios
- Included in SAP S/4HANA and SAP S/4HANA Cloud
- Migration of data from SAP and non-SAP sources into SAP S/4HANA,
   SAP S/4HANA Cloud Private Edition, and SAP S/4HANA Cloud Public Edition
- Guided procedure to take users through the migration process; no programming required
- Flexibility for integration of custom business data, including data transformations



#### Migration approach

**Data Transfer** 



Migrate data using Staging Tables



Migrate data directly from SAP System

#### Predefined migration content to SAP S/4HANAspecific to facilitates and accelerates your data migration

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

# Thank you. SAP S/4HANA migration cockpit Product Management <a href="mailto:sap\_s4hana\_migration\_cockpit@sap.com">sap\_s4hana\_migration\_cockpit@sap.com</a>



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

https://community.sap.com/topics/s4hana-migration-cockpit/ Community topic page

Click through tutorials SAP S/4HANA migration cockpit

**Classroom Training** S4D445 Data Migration using the SAP S/4HANA Migration Cockpit (based on 2021; chargeable)



# **Appendix**

# SAP S/4HANA Migration Cockpit - File/Staging Approach



Overview on main functions / Function overview in former releases

<b>Feature</b>	1909	2020	2021	2022
Transaction LTMC	Х	X not recommended	- Only display mode	-
Fiori App Migrate Your Data	-	X	X	х
Use CSV files to upload data	-	-	-	x
Mass processing (instance based)	-	X (FPS01 – delete) (FPS02 – simulation, migration)	X	Х
Transport Concept (via CTS)	-	-	X	×
View migration results	-	-	Х	х
Download migration results	-	-	X (FPS01)	х
Mapping Down/Upload in Fiori	-	х	Х	Х
Delete mapping / Clean mapping task	-	-	X	Х
Cancel button (in Monitor Screen, e.g. cancel simulation)	-	-	х	Х
Finished project cannot be touched	-	-	Х	х
Copy projects (*. see next slide)	-	-	X*	X*
Message download customizable	-	-	X (FPS01)	Х
Setting data retention time	-	х	Х	Х

# SAP S/4HANA Migration Cockpit - File/Staging Approach



### Overview on main functions LTMOM in former releases

Feature	1909	2020	2021	2022
Reset Transfer Status	-	Х	×	Х
Copy and delete objects	-	х	х	х
Use project in different client	-	x	X	x
Client dependency (e.g. staging tables)	-	Х	Х	х
System check on modifiable/non-modifiable	-	Х	х	х
Export/import projects	X (LTMC)	х	X (FPS0) -(FPS01)	-
Re-apply customer extensions after content upgrade	-	-	×	x
Copy Migration Object from one project to another project with link to original SAP delivered template*	- (no update of copied objects possible)	- (no update of copied objects possible)	- (no update of copied objects possible)	X (no update of copied objects possible)

<sup>\*:</sup> Copy Project 2021 – objects in the project **can** t be upgraded with standard content Copy Project 2022 – objects in the project **can** be upgraded with standard content

# SAP S/4HANA Migration Cockpit – Direct Transfer Approach



Overview on main functions / Function overview in former releases

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

Feature / Migration Cockpit (Fiori)	2020	2021	2022
Transport projects and project elements	х	х	х
Mapping download/upload in Fiori	Х	Х	Х
Mass processing (select a subset of instances for processing)	Х	х	x
Additional view on messages (instances concerned by message)	X (FPS01)	X	Х
Copy projects	X (FPS01)	x	x
Step selection split into: selection and prepare mapping tasks	-	Х	Х
Migration results view – display document no./record ID of migrated item	-	X	X
Detailed view on migration process (multi-step objects, error case)	-	Х	Х
Cancel function in MC monitor	-	X (FPS01)	х
Download migration results	-	X (FPS01)	Х
Download selected items	-	X (FPS01)	x
Message download customizable	-	X (FPS01)	Х

# SAP S/4HANA Migration Cockpit – Direct Transfer Approach



Overview on main functions LTMOM in former releases

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

Feature / LTMOM	2020	2021	2022
Copy objects	x	×	Х
Delete objects	Х	X	х
Selection – skip rule	Х	X	Х
Mapping – custom-own source code rules	Х	X	Х
Mapping download/upload <b>disabled</b> in LTMOM – now in Fiori only	X (FPS01)	x	Х
Create migration object from template – copy an (updated) standard SAP migration object into your project (a second time if needed)	X	Х	Х
Selection – BAdI for selection	-	×	х
Selection – Filter values can be displayed	-	-	Х

# Preconfigured SAP S/4HANA Sandbox System

## Demo scripts for SAP S/4HANA migration cockpit available



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



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

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 2022 FPS01)

- 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 – Migrate Data Using Staging Tables

How to fill the staging tables



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.



- <u>SAP Smart Data Integration</u> to fill staging tables from Excel files
- SAP Agile Data Preparation (ADP)
- Third-party tools to fill staging tables



**Note:** For **SAP S/4HANA Cloud** you can only **use** the **remote SAP HANA database schema** to populate the staging tables using third-party or SAP Tools. Additional costs may apply for using 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 the staging tables – blogs in SAP community



To fill the staging tables, you can either use an ETL tool or fill the data directly on the SAP HANA database.

There are several blog posts listed below that explain the different methods to load data into the staging tables:

- Migrating data using staging tables and methods for populating the staging tables
- Using SAP HANA Smart Data Integration (SDI) 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



Filling the staging tables – Other possibilities



To fill the staging tables, you can either use an ETL tool or fill the data directly on the SAP HANA database. There are several **blog posts** listed below that explain the different methods to load data into the staging tables:

- Migrating data using staging tables and methods for populating the staging tables
- Using SAP Data Services to load data to the staging tables
- Using SAP HANA Smart Data Integration (SDI) to load data to the staging tables
- Using SAP HANA Studio to load data to the staging tables
- SAP S/4HANA migration cockpit creating and using synonyms for renaming staging tables

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

KBA 2733253 FAQ Migrate Data Using Staging Tables