

SAP S/4HANA LTMC



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SAP S/4HANA LTMC

Step-By-Step Process for Legacy Transfer Migration

When we are Implementing SAP S/4HANA solution, we can migrate our master data and business data from SAP systems or non-SAP systems to SAP S/4HANA. By using SAP S/4HANA migration cockpit.

The SAP S/4HANA migration cockpit uses migration objects to identify and transfer the relevant data. A migration object describes how to migrate data for a specific business object to SAP S/4HANA. It contains information about the relevant source and target structures, as well as the relationships between these structures. It also contains mapping information for the relevant fields, as well as any rules used to convert values that are migrated from source fields to target fields. SAP provides a predefined migration object that you can use to transfer your data.

The Tool used to perform Migration is LTMC – (Legacy Transfer Migration Cockpit) You can access the SAP S/4HANA migration cockpit by using transaction LTMC.

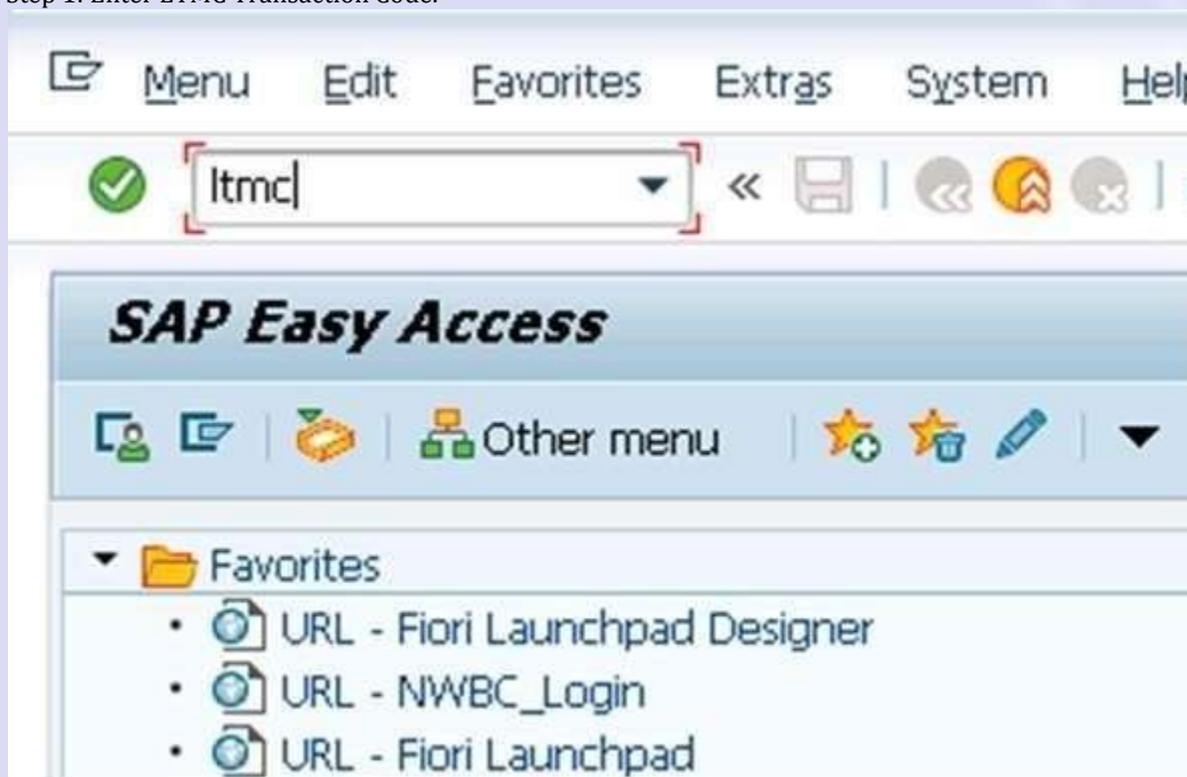


Benefits of LTMC are as below:

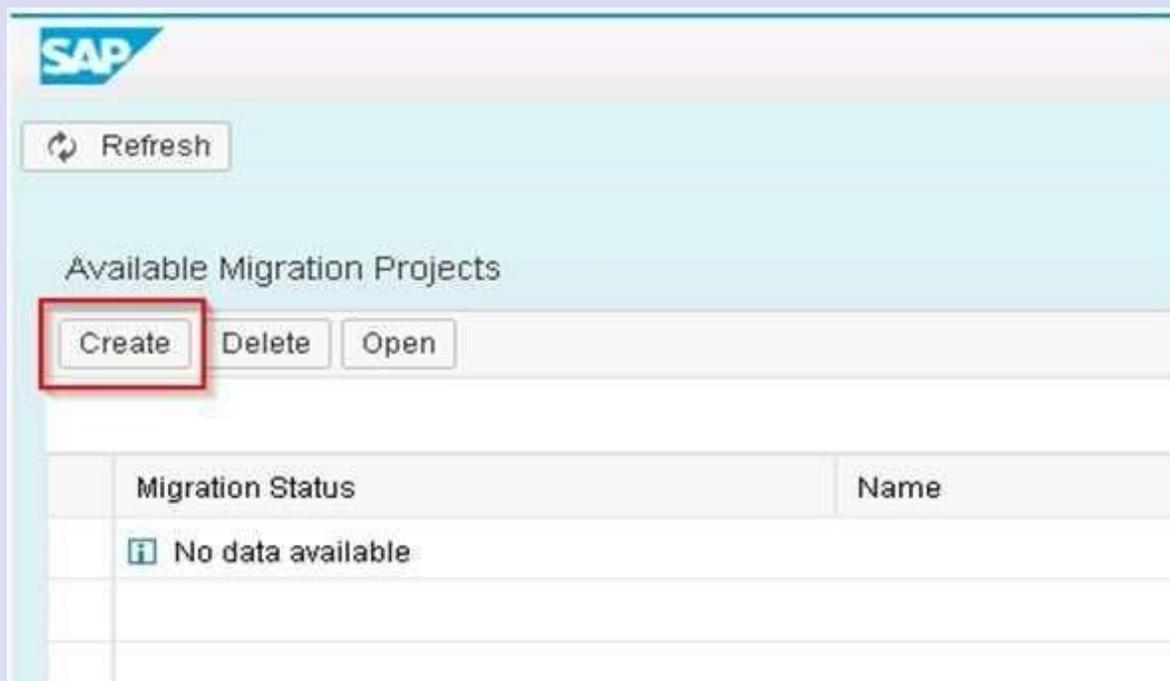
- Easier Processing and uploading data in the system.
- Recording step is eliminated.
- No more Consultant dependency to upload data. End user can also use this functionality.
- Functionality can be used through Fiori app.
- User friendly navigation.
- Ease in filling the templates.
- Reusability

Step-By-Step Process:

Step 1: Enter LTMC Transaction Code.



LTMC Web Page/Fiori App will be opened.



SAP

Refresh

Available Migration Projects

Create Delete Open

Migration Status	Name
No data available	



Click on create for starting NEW MIGRATION PROJECT.

Create Migration Project

* Name:

Transfer Options:

Transfer Data from File

Transfer Data from Staging Tables

If you want to copy content from a quality system to a productive system, the mass transfer ID must be identical in both systems. To ensure that both systems have the same mass transfer ID, you can enter a mass transfer ID in the field below.

* Mass Transfer ID:

Data Retention Time:

Provide Project Title & Data Retention Time and Hit Create.

In the Search Bar, we can look for an object, which we want to use and upload data.

Migration Project: RUTHSK_MASTER DATA

Migration Project Details

Name: Migration Status: Not Started

Data Source: Mass Transfer ID: 001

Default View:

Data Retention Time:

Migration Objects

Migration Status	Name	Document ID	Dependent Migration Object
Not Started	Batch of Batch to produce at material level	Show	Characteristics
Not Started	Customer Material	Show	Characteristics
Not Started	Equipment	Show	Material BOM
Not Started	Material	Show	Profit center
Not Started	Material - extend existing record to new org levels	Show	Material

Select the required Object and Click on Open option.

Migration Objects Notifications Settings

View: Standard View

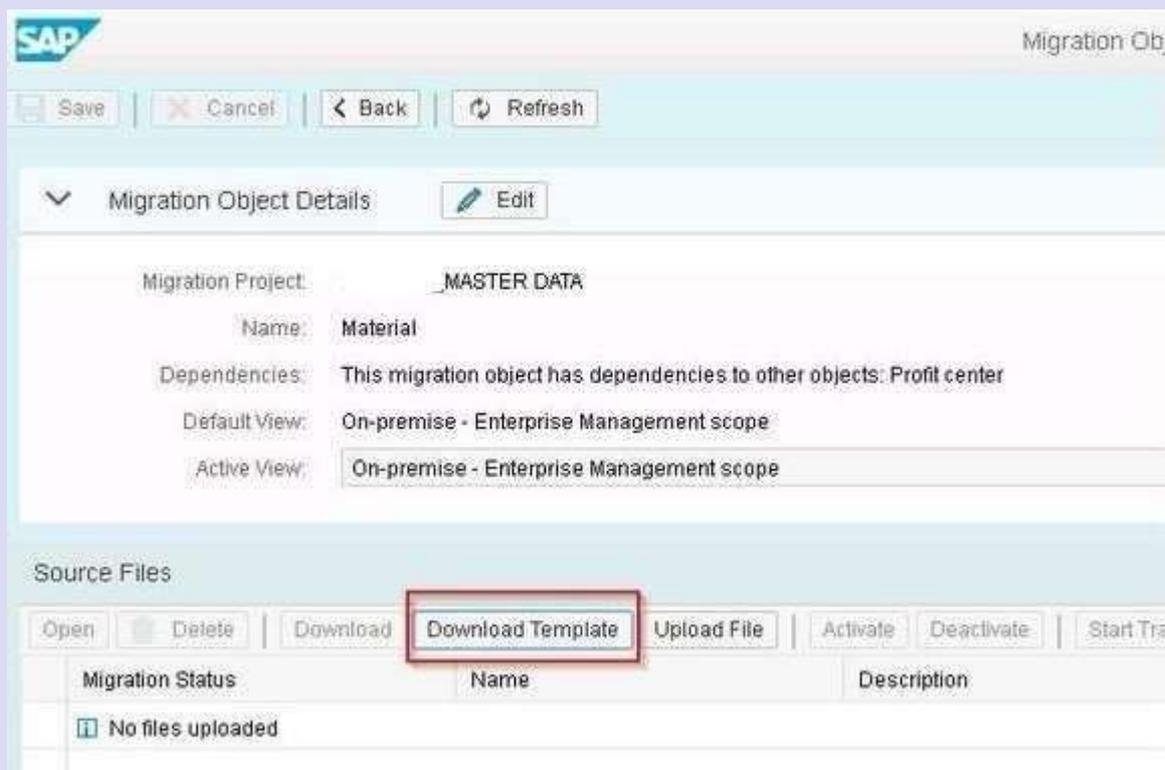
Migration Status	Name
Not Started	Batch (if Batch is unique at mater
Not Started	Customer Material
Not Started	Equipment
Not Started	Material

Warning

In order to facilitate the transfer of data, the migration object will be copied to the migration project.

Note that this may take some time.

Just a piece of information and hit the enter button.



Click on the download template so the XML file will be downloaded.



The Pre-filled template with details of each field and business is available.

Field List for Migration Object: Material

Version 24C0RE 103 - 26.04.2019 © Copyright SAP SE. All rights reserved.

Sheet Name	Group Name	Field Description	Importance	Type	Length	Decimal
Basic Data (mandatory)						
Key	Mandatory	Material Number	mandatory for sheet	Text	80	
		Language Key	mandatory for sheet	Text	80	
		Material description	mandatory for sheet	Text	40	
		Industry sector	mandatory for sheet	Text	80	
		Material type	mandatory for sheet	Text	80	
Administrative Data		Material Views		Text	80	
Multiple View Data		Batch management requirement		Text	1	
		Level of Explicitness for Serial Number		Text	80	
Basic 1 - General Data		X-Plant matl status		Text	80	
		Valid from Date for X-Plant matl status		Date		
		Material Group		Text	80	
		External Material Group		Text	80	
		Base Unit of Measure (ISO format)	mandatory for sheet	Text	80	
		Old material number		Text	40	
		Division		Text	80	
		Product hierarchy		Text	80	
		General item category group		Text	80	
Basic 1 - Dimensions/EANs		Gross Weight		Number	13	3
		Net Weight		Number	13	3

In the field, the listing sheet will find each sheet which and all are mandatory based on that we will fill data and upload.

Source Data for Migration Object: Material						
Key	Mandatory			Administrative Data	Multiple V	
Material Number* Key uniquely identifying the material. Type: Text Length: 80	Language Key* Please provide the language for the material description. Type: Text Length: 80	Material description* Text that describes the material in more detail. Note: You can maintain additional descriptions (for languages other than those provided on the 'Basic Data' sheet) on sheet 'Material Description'. Type: Text Length: 40	Industry sector* Type: Text Length: 80	Material type* Key that assigns the material to a group of materials such as raw materials, finished product or trading goods. Type: Text Length: 80	Material Views Assign how your description from sheet 'Settings maintenance status' to provide the client specific maintenance status (overall maintenance status) for your material. You can find detailed information in the migration object documentation. Type: Text Length: 80	Batch management requirement indicator This is an indicator field. If the criterion is met, enter X. If not, leave the field empty. Specifies whether the material is managed in batches (X) or not (=blank). Note: to assign the batch class to your material please use migration object 'Material classification'. Type: Text Length: 1
RUTHVK_LTMC	EN	RUTHVK LTMC UPLOAD	Mechanical	FERT	X	

In Basic Data Sheet, the highlighted column is mandatory and fill the remaining fields and sheets as per requirement.

Source Data for Migration Object: Material					
Mandatory					
Material Views*	Basic Data	Sales Data	Purchasing Data	MRP Data	Work Scheduling Data
If you do not want to use the automatic maintenance status determination (see SAP note 2145027) you can define here your own combinations of maintenance status for the client specific data and the plant specific data. You have to assign these on sheet 'Basic Data' field 'Material Views' for client specific data and on sheet 'Plant Data' field 'Material Views' for plant specific data. Note: SAP recommends to provide the status. Type: Text Length: 80	Set 'X' if the material assigned to this group has data for view 'Basic Data' Type: Text Length: 1	Set 'X' if the material assigned to this group has data for view 'Sales Data' Type: Text Length: 1	Set 'X' if the material assigned to this group has data for view 'Purchasing Data' Type: Text Length: 1	Set 'X' if the material assigned to this group has data for view 'MRP Data' Type: Text Length: 1	Set 'X' if the material assigned to this group has data for view 'Work Scheduling Data' Type: Text Length: 1
	X	X		X	

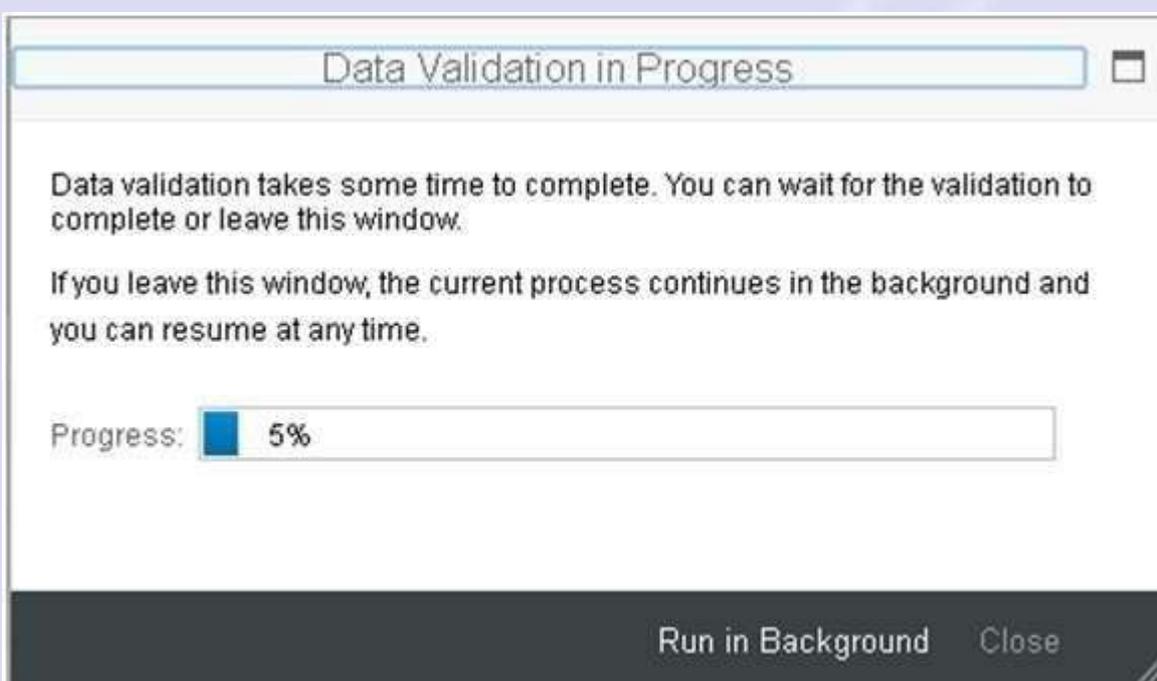
In the last sheet, "Maintenance Status Settings" Sheet will be activating which screens are required as per business.

Once the template is ready with all the required data, need to follow the below steps:

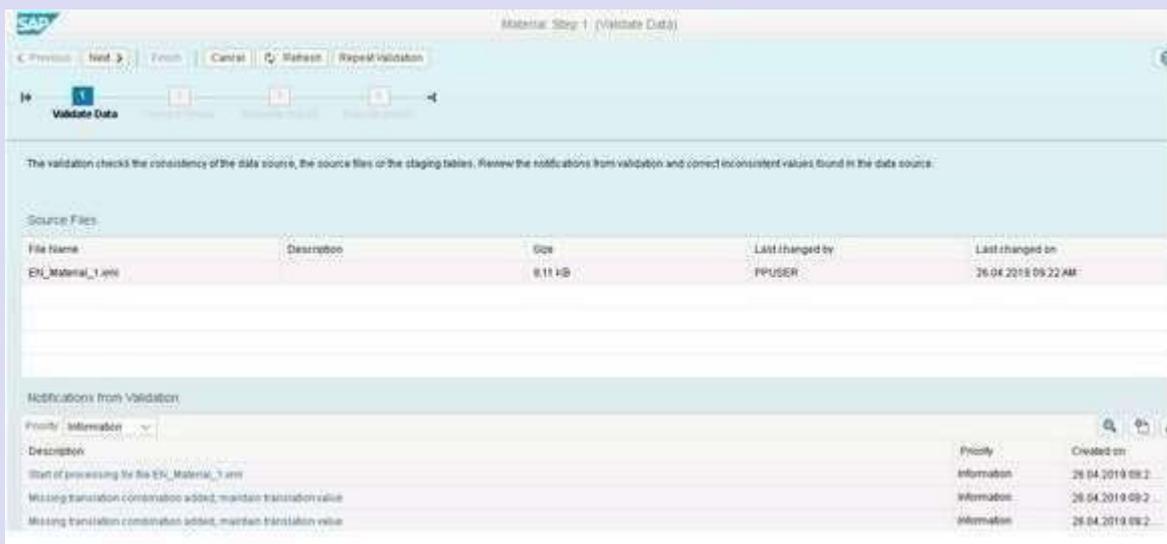
- A. Upload File
- B. Activate
- C. Start Transfer
- D. Data Validate
- E. Convert Values.
- F. Simulate.
- G. Execute Import.



Click on the activate button and start the transfer.

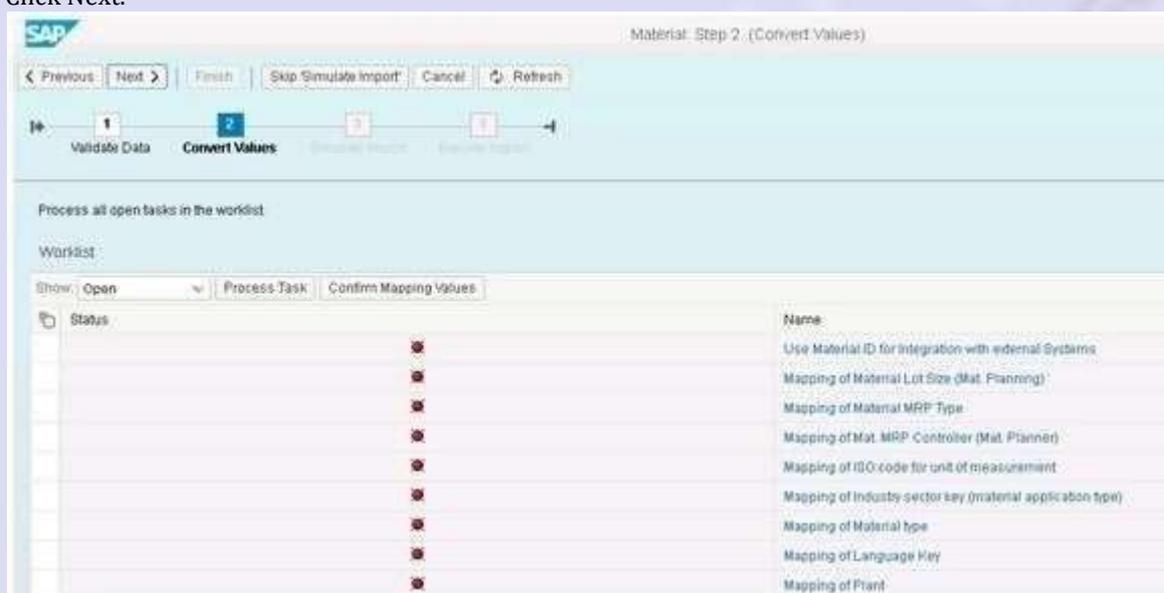


Data will be transferred once it is done, the close button will be enabled.



If any error or data is missing will get the error to hear if all data in the template is good we can proceed further.

Click Next.



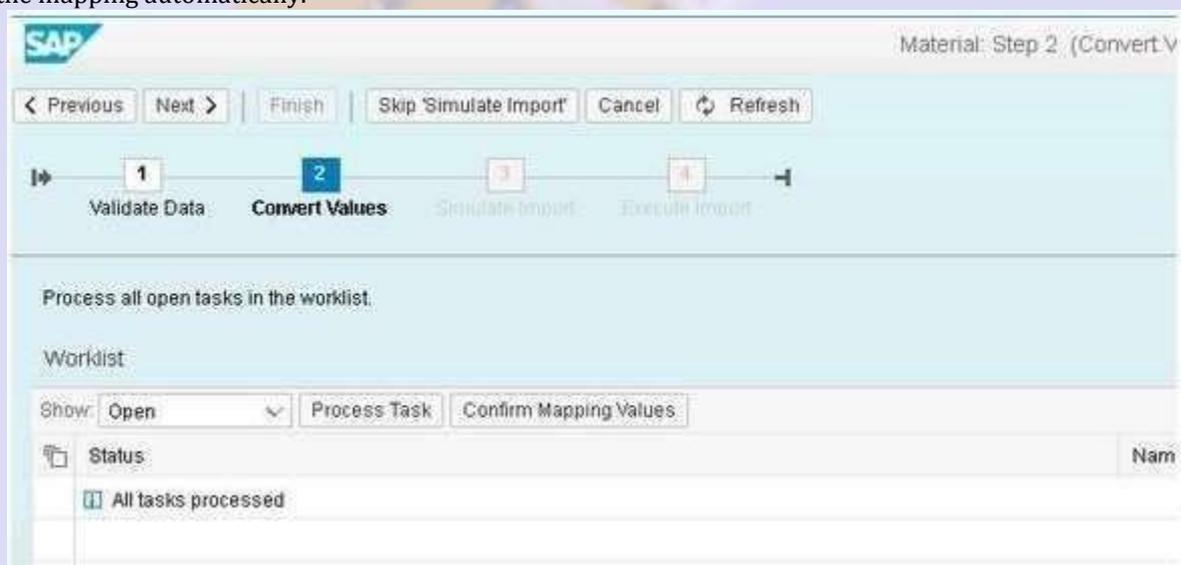
When we are executing for the first time a particular object in a project we need to map fields.



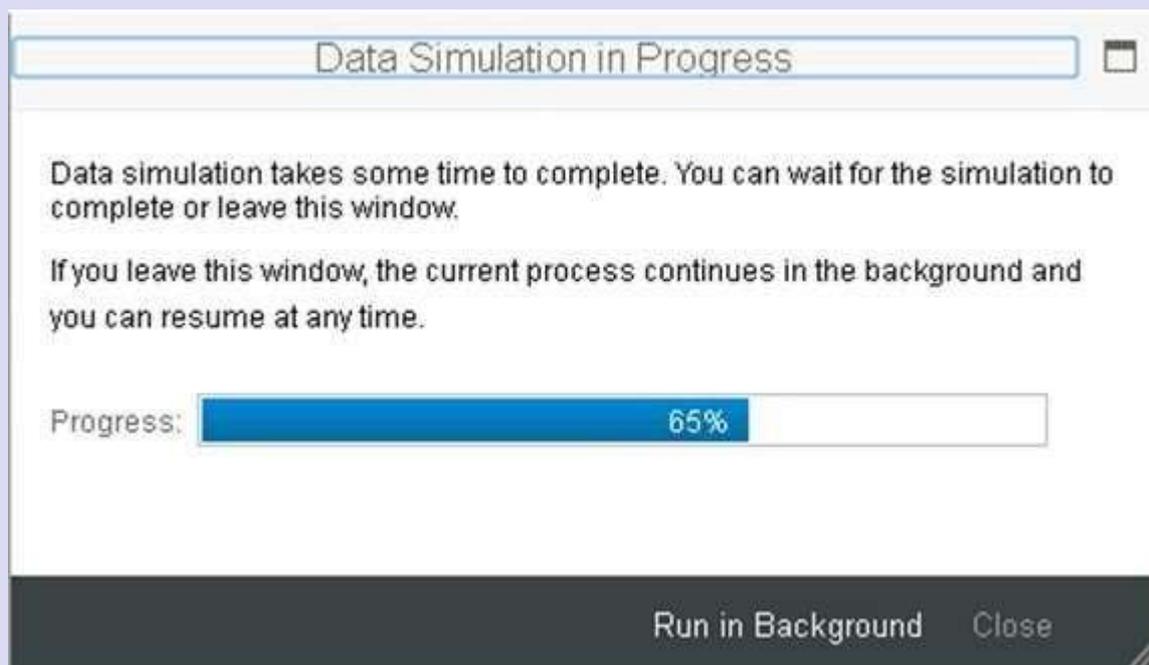
Click each line item and do the mapping of values.



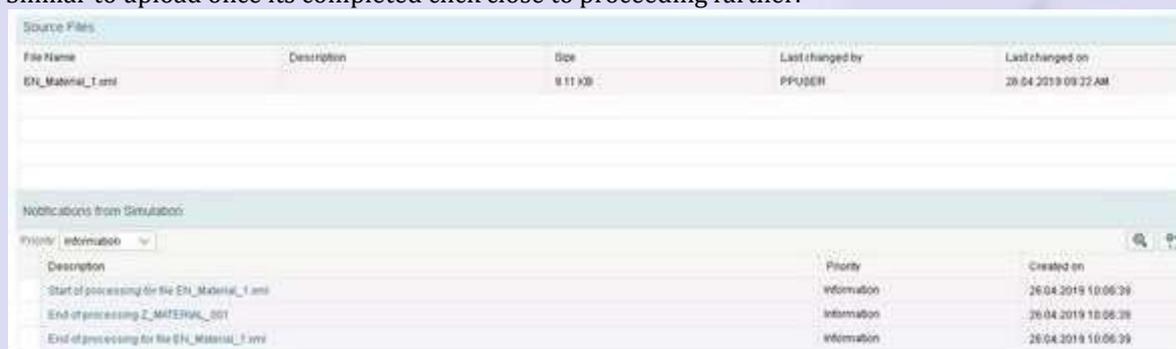
Select line item and click check once status turns into green light click save so next time the system will do the mapping automatically.



Once all the mapping is completed and no open item click next to simulate import.

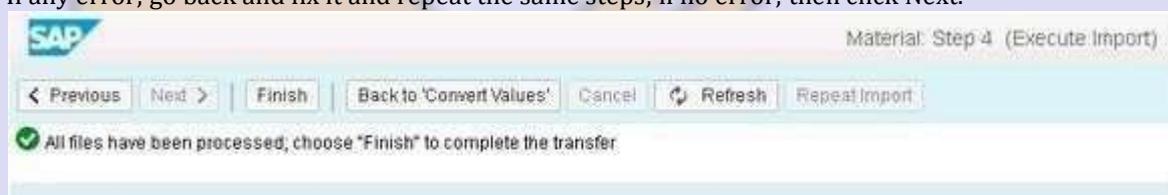


Similar to upload once its completed click close to proceeding further.

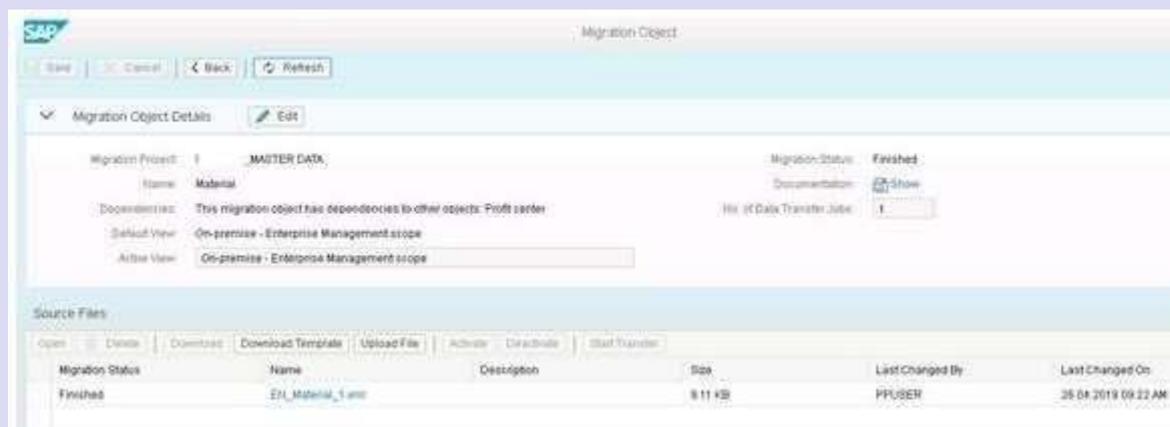


Backed Program will execute and data is simulated if any missing data of mandatory fields and field mapping is wrong.

If any error; go back and fix it and repeat the same steps; if no error; then click Next.



If all the steps are completed without, any error will get above message then click on Finish.



Here it completes the step-by-step process for LTMC in SAP S/4HANA.

Transaction Code – LTMC

Feature – Data Migration Cockpit

S4H Option – On-Premise

When invoking the S4HANA Data Migration Cockpit the 403-Forbidden Error is a common occurrence. The error description usually also accompanies message “Service Cannot be reached” as shown in image below (Fig1).

This error is quite common when the services corresponding to the DM Cockpit Data Migration are not activated in the system.

Below are the steps to identifying the correct service and activating it in S4H in order to ensure that this error is resolved.

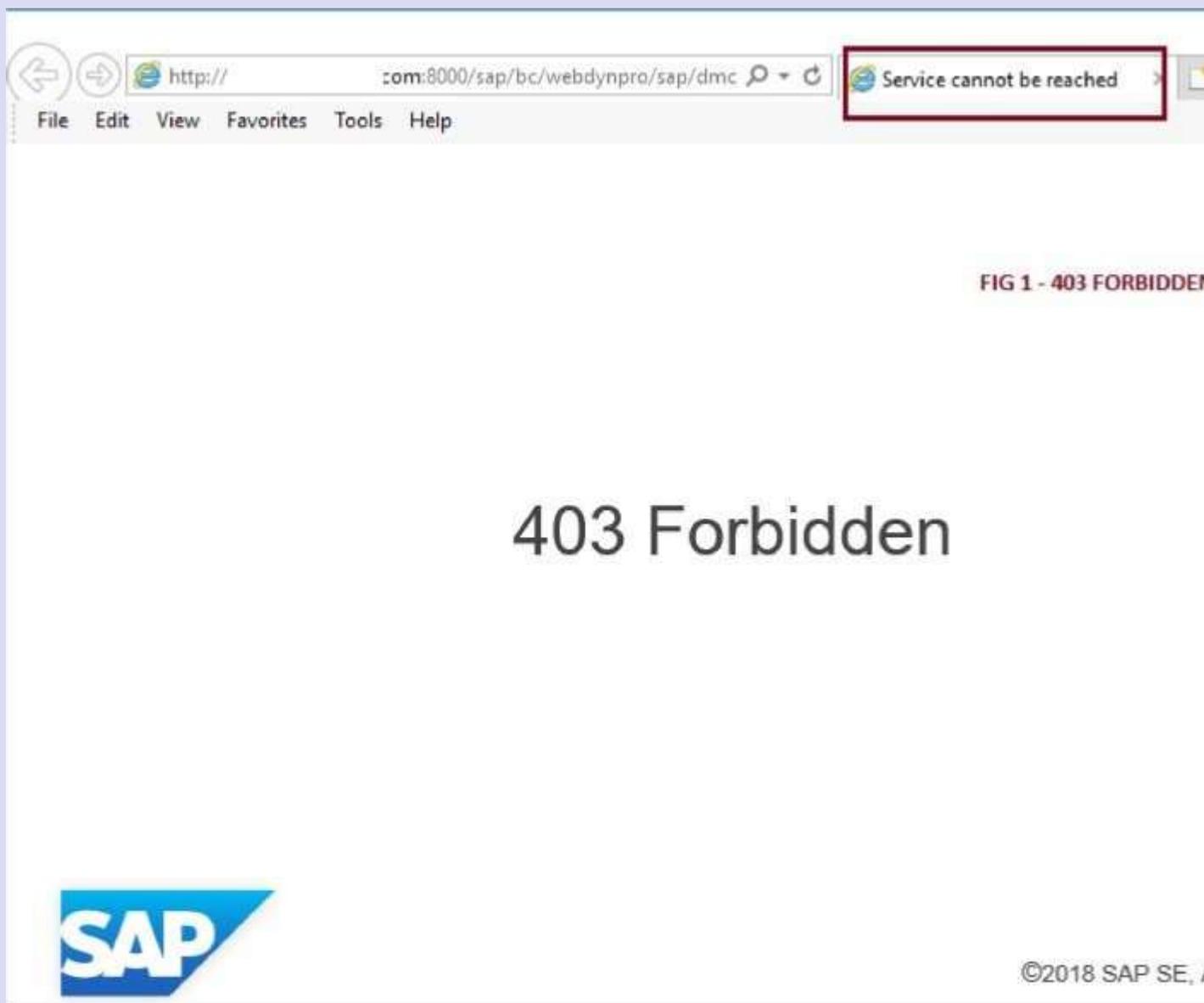


FIG 1 - 403 FORBIDDEN

403 Forbidden



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Step 1 – Identify the service that needs to be activated

The service that needs to be activated is usually on the address string of the web-page with the 403-Forbidden error. This also has a general direction of which service path to navigate through in the Sap system in order to activate it.

For our case the the Service to be activated is DMC_WDA as shown in Fig 2

From the figure above you can see that the service is DMC_WDA and also the path for the same is also visible "*sap/bc/webdynpro/sap/dmc_wda*"

This service needs to be activated in the S4H client / system where the LTMC transaction code is being executed to start he Data Migration Cockpit.



FIG2 - IDENTIFY THE SPECIFIC SERVICE THAT NEEDS TO BE ACTIVATED

Step 1

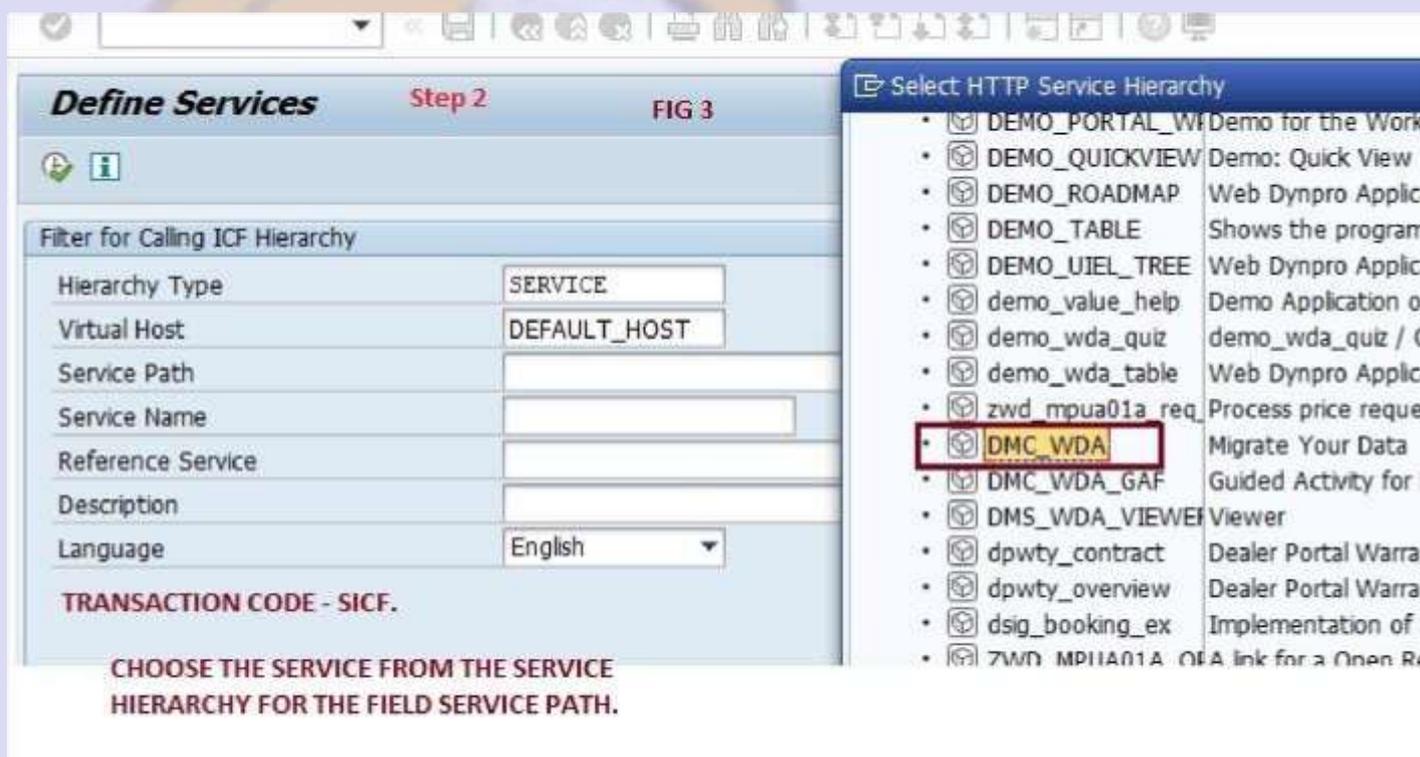
Step 2 – Locate the Service

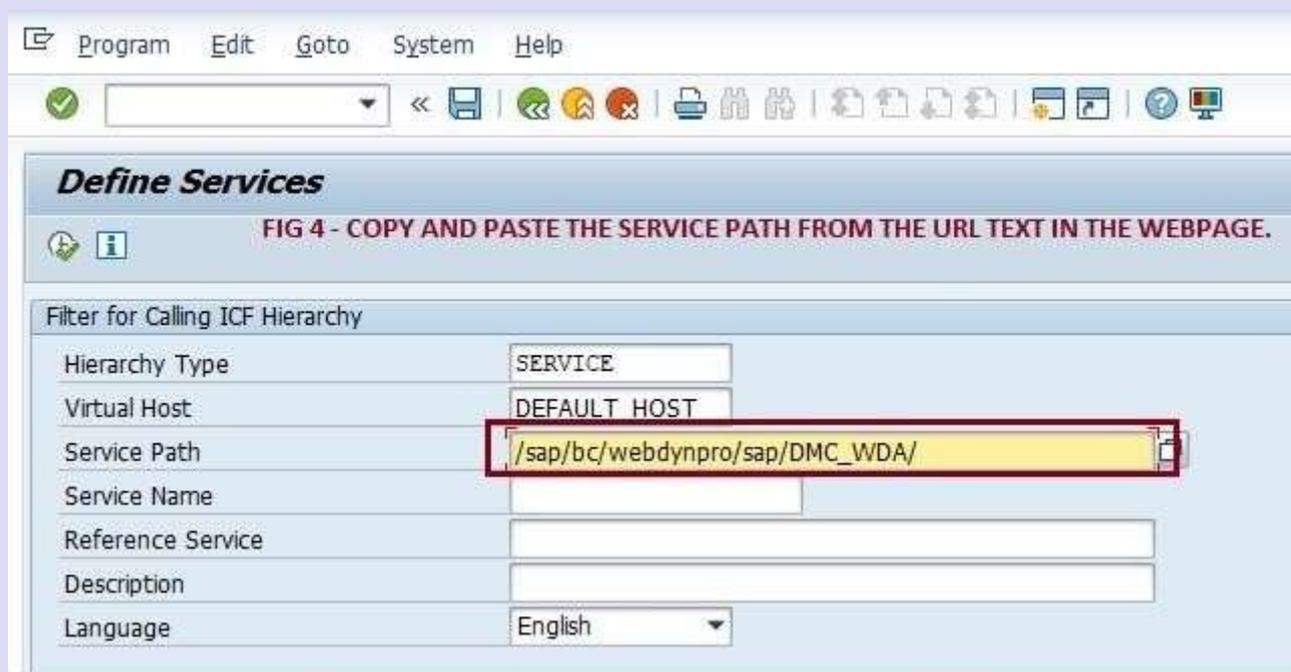
Transaction Code – SICF

Run the transaction code SICF in the client system where you are experiencing the error with the Data Migration Cockpit (LTM). Locate the path sap -> bc -> webdynpro -> sap -> DMC_WDA as shown in Fig 3 below

The Service hierarchy is a lengthy list. So it is essential to be patient to look for the right service.

The service path for our DMC_WDA is also shown in the URL on the migration cockpit web page that failed with the error as shown in Fig 2. So you can copy and paste that text instead of having to search through the entire hierarchy as shown in Fig 4 below.

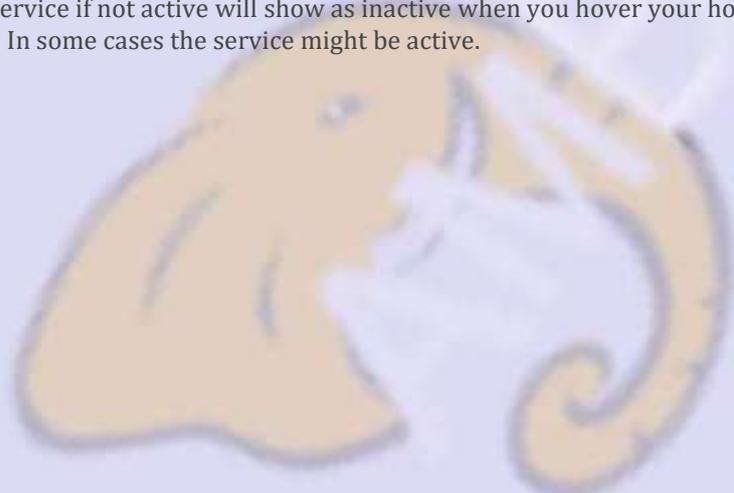




The Service Path text is “/sap/bc/webdynpro/sap/DMC_WDA/”

Step 3 – Check if the Service is Active or Inactive

The service if not active will show as inactive when you hover your mouse over the service as shown below in Fig 5. In some cases the service might be active.



Service/Host Edit Goto Client System Help

Define Services STEP 3

Create Host/Service External Alases System Monitor Active

Filter Details

Virtual Host: **DEFAULT_HOST** Service Path: /sap/bc/webdynpro/sap/DMC_WDA/

ServiceName:

Description:

Lang.: English Ref.Service:

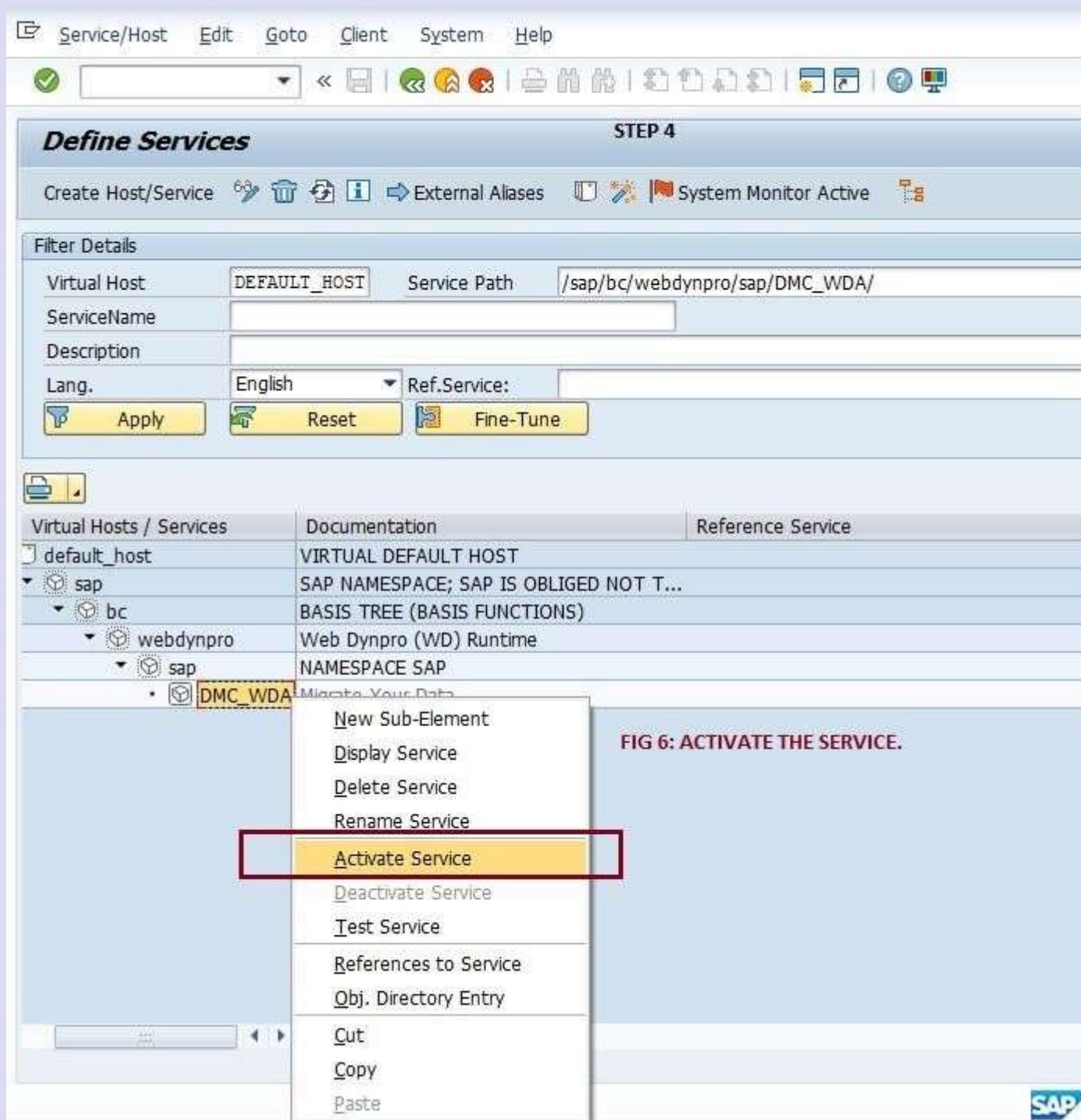
Apply Reset Fine-Tune

Virtual Hosts / Services	Documentation	Reference Service
default_host	VIRTUAL DEFAULT HOST	
▼ sap	SAP NAMESPACE; SAP IS OBLIGED NOT T...	
▼ bc	BASIS TREE (BASIS FUNCTIONS)	
▼ webdynpro	Web Dynpro (WD) Runtime	
▼ sap	NAMESPACE SAP	
• DMC_WDA	Migrate Your Data	FIG 5: SERVICE INACTIVE

Service (Inactive)

Step 4: Activate the Service

If the Service is Active, right click on the service DMC_WDA and choose Activate as show in Fig 6 below.



This will open the confirmation dialog box as shown in Fig 7 below. Make sure that the option “Yes with a tree icon” is chosen so that DMC_WDA service with all its subservices are activated.

The help text for Activation of the ICF Services is also displayed in Fig 7. Do make sure that only authorised users are allowed to access the service. Basis will need to be aware of the process and security to restrict access to such services so that the system overall performance is not affected.

Define Services

Create Host/Service External Aliases System Monitor Active

Filter Details

Virtual Host: DEFAULT_HOST Service Path: /sap/bc/webdynpro/sap/DMC_WDA/
 ServiceName:
 Description:
 Lang.: English Ref.Service:

Virtual Hosts / Services

- default_host
 - sap
 - bc
 - webdynpro Web Dynpro (WD) Runtime
 - sap NAMESPACE SAP
 - DMC_WDA **Migrate Your Data**

Do you want to activate service /default_host/sap/bc/webdynpro/sap/DMC_WDA?

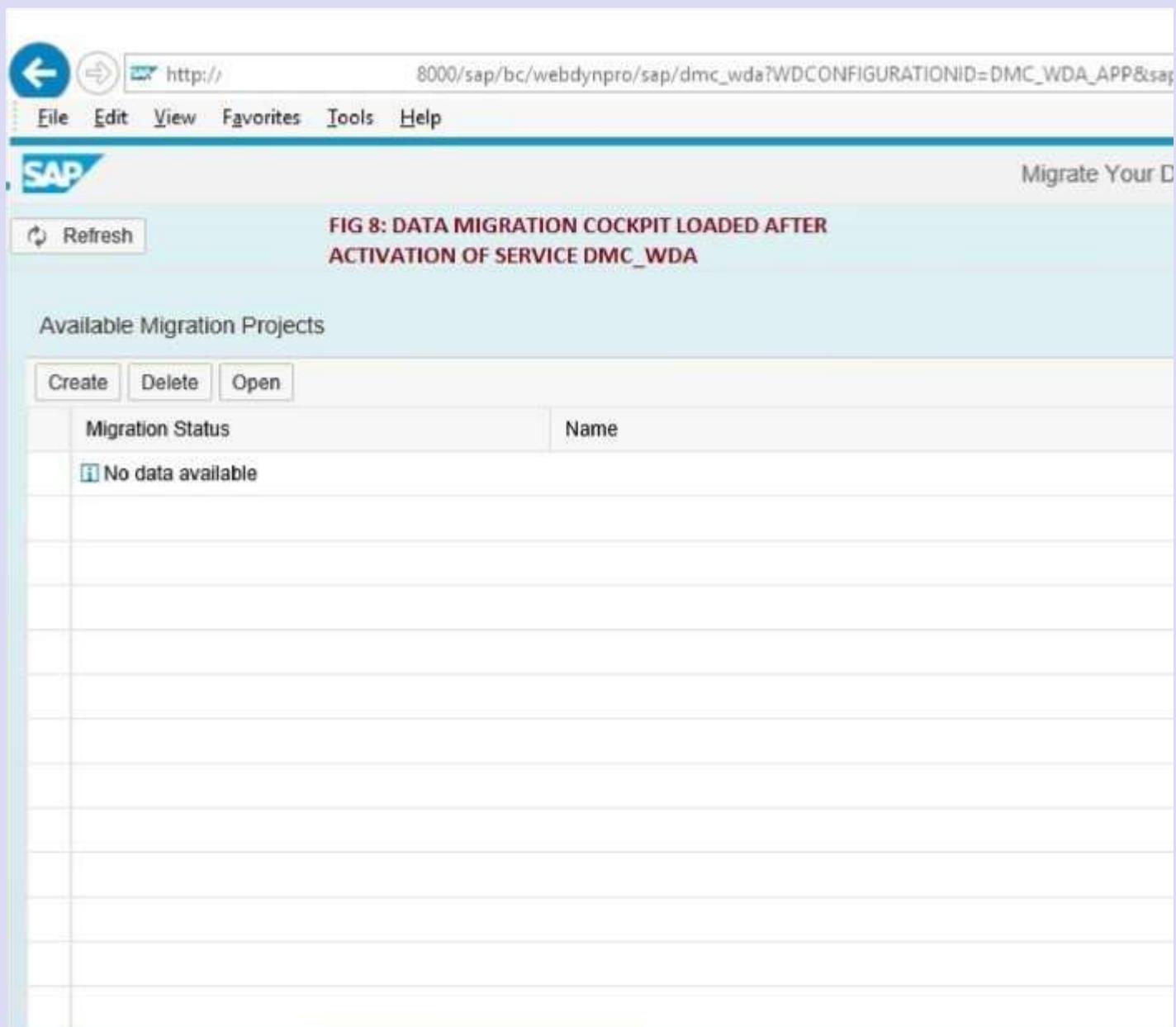
CLICK ON THE OPTION "Yes WITH A TREE ICON" SO THAT ANY SUBSERVICE UNDER THE DMC_WDA ARE ALSO ACTIVATED.

Step 5: Re-Run LTMC transaction

Once the service is activated, run the transaction code LTMC. Usually there is no need to logout and login to the system before re-running the LTMC transaction. If however, the Data Migration Cockpit does not load, logout and login again to try the same transaction LTMC.

If the service is activated and authorisations are all set properly, then the LTMC transaction should load the Data Migration cockpit as shown below in Fig 8.

When the DMC_WDA service is already active, Deactivate first and then Activate the service again.



Note that the error **403 FORBIDDEN – SERVICE CANNOT BE REACHED** described so far pertains to starting the Data Migration Cockpit in S4HANA.

403 FORBIDDEN – SERVICE CANNOT BE REACHED also occurs when trying to perform migration activity within the migration cockpit. This is because there is a further service that needs to be activated for ensuring that the actual process of activating a migration object within a Migration project is possible. The service is defined as the “Guided Activity for Migration Object” as shown in Fig 9 below.

The Service path is `/sap/bc/webdynpro/sap/DMC_WDA_GAF/`

This service is required to be active in order to actually activate a Migration Object within a Migration project for performing data migration.

Define Services



FIG 9

Filter for Calling ICF Hierarchy

Hierarchy Type	<input type="text" value="SERVICE"/>
Virtual Host	<input type="text" value="DEFAULT_HOST"/>
Service Path	<input type="text" value="/sap/bc/webdynpro/sap/DMC_WDA*"/>
Service Name	<input type="text"/>
Reference Service	<input type="text"/>
Description	<input type="text"/>
Language	<input type="text" value="English"/>

GUIDED ACTIVITY FOR MIGRATION OBJECT

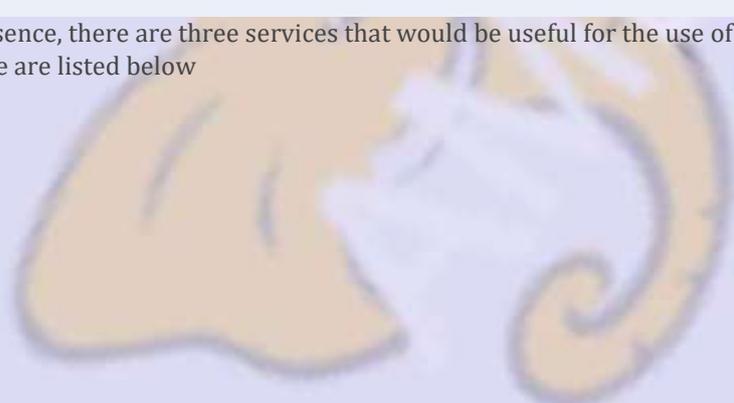
Filter for Detail Information

Created By	<input type="text"/>		
Created On	<input type="text"/>	to	<input type="text"/>
Last Changed By	<input type="text"/>		
Changed On	<input type="text"/>	to	<input type="text"/>

Select HTTP Service Hierarchy

- C_SRT_ISOLATION
- c_srt_seq_mon
- c_srt_sr_admin1
- C_SRT_SR_SELECT
- c_srt_task_mon
- DBA_COCKPIT
- Delete_Searches
- DemoDynamic
- DemoTree
- demo_bg_gantt
- demo_bg_gantt_2
- demo_fba_email
- demo_messages
- demo_messages2
- demo_popups_01
- demo_popups_02
- DEMO_PORTAL_WP
- DEMO_QUICKVIEW
- DEMO_ROADMAP
- DEMO_TABLE
- DEMO_UIEL_TREE
- demo_value_help
- demo_wda_quiz
- demo_wda_table
- zwd_mpua01a_req_wi
- DMC_WDA
- DMC_WDA_GAF
- DMS_WDA_VIEWER
- dpwty_contract

In essence, there are three services that would be useful for the use of Data Migration Cockpit in S4HANA. These are listed below



THANK YOU



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