

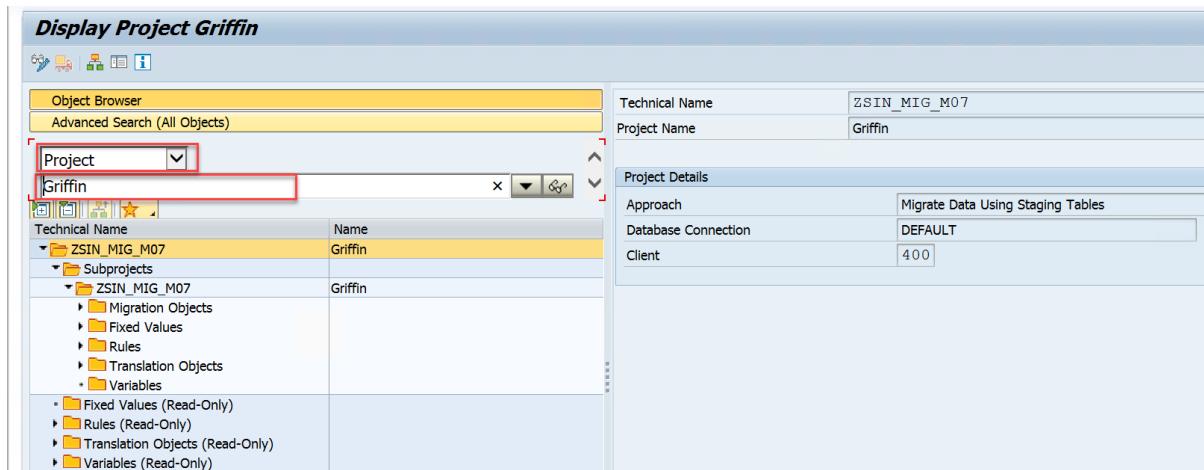
How to Create New Custom LTMC Object using LTMOM

we will use Function Module **BAPI_SERVICE_CREATE** to create a Service Master custom LTMC object.

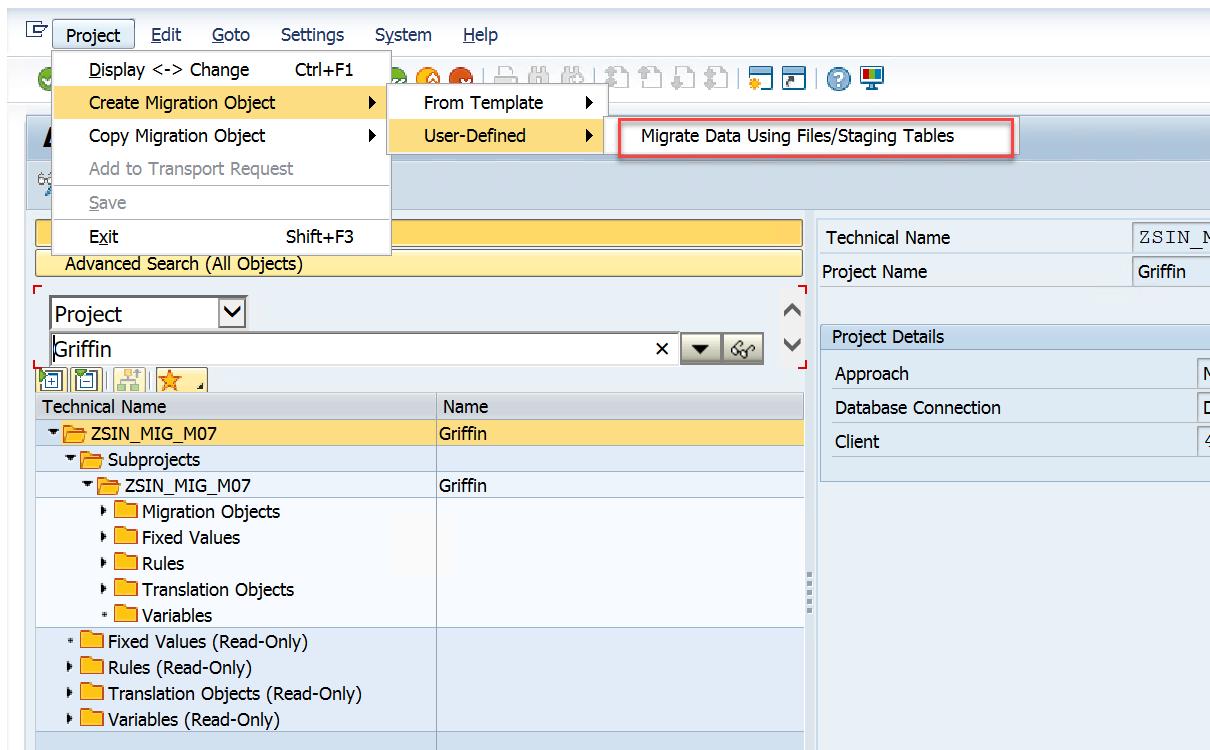
CREATE A NEW CUSTOM OBJECT

1. Go to T-Code LTMOM

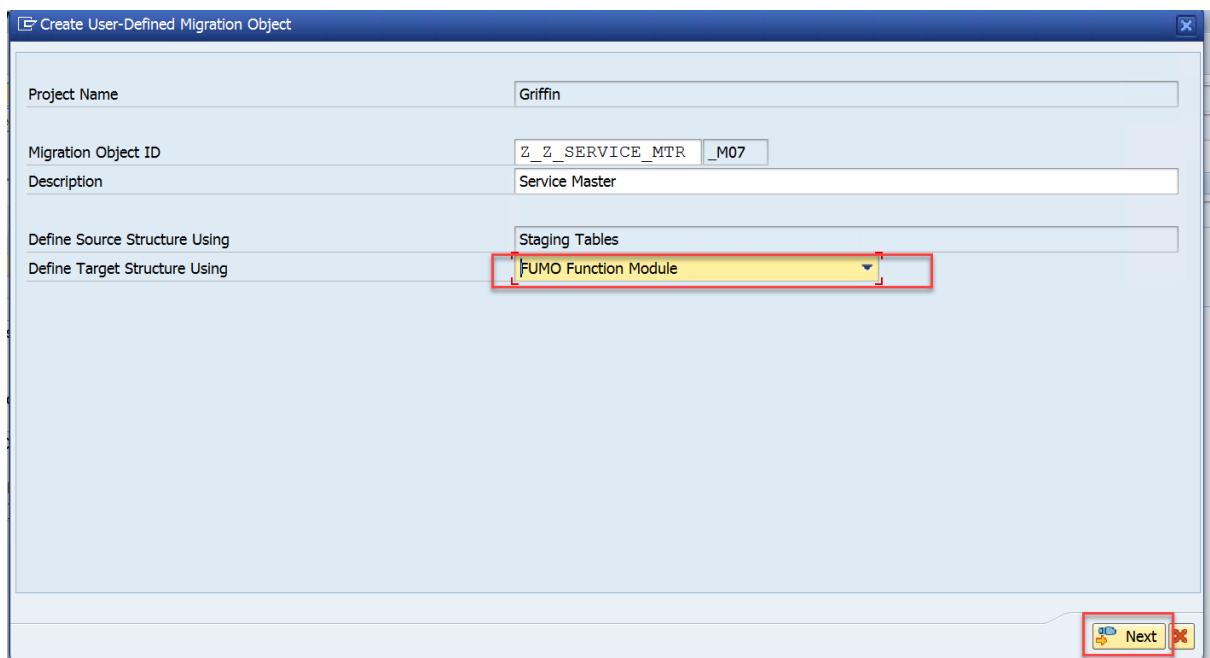
2. Choose the project that you want to create a new custom object.



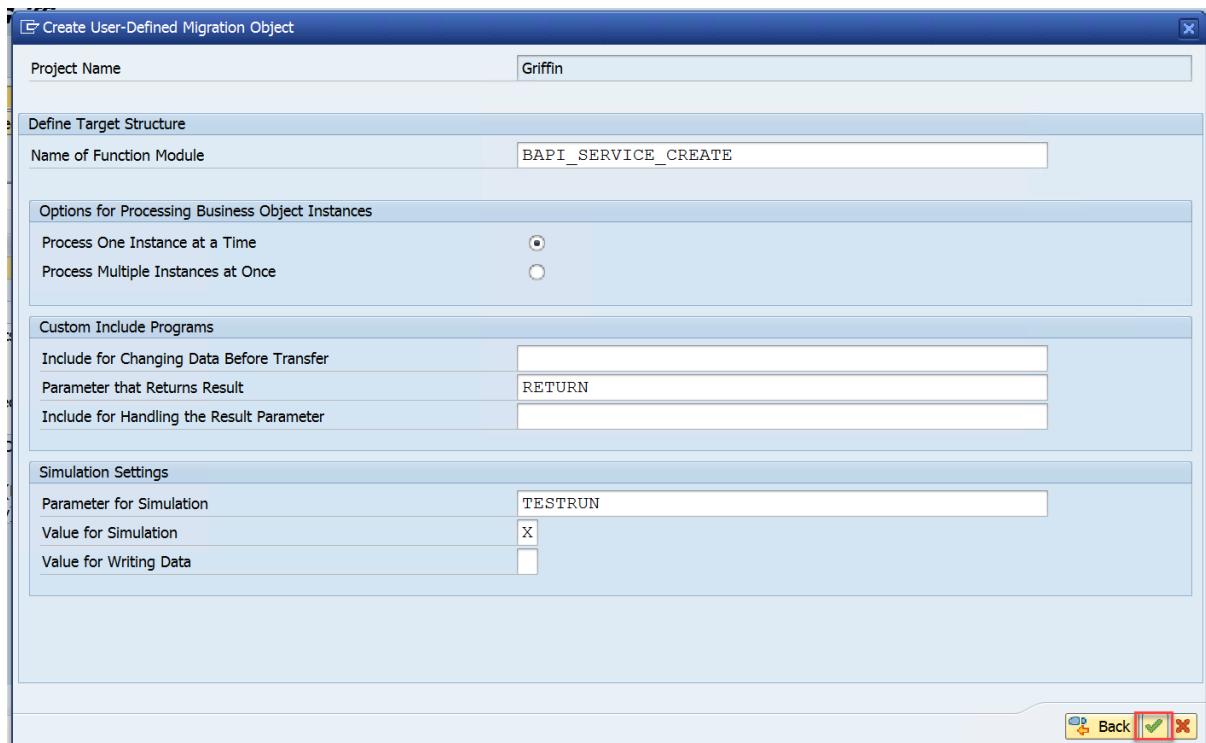
3. After choosing the project, click in the menu bar *Project->Create Migration Object->User-Defined->Migrate Data Using Files/Staging Tables* to create a new custom object



4. Enter the object ID and description and choose *Function Module* as the Target Structure, then click *Next*



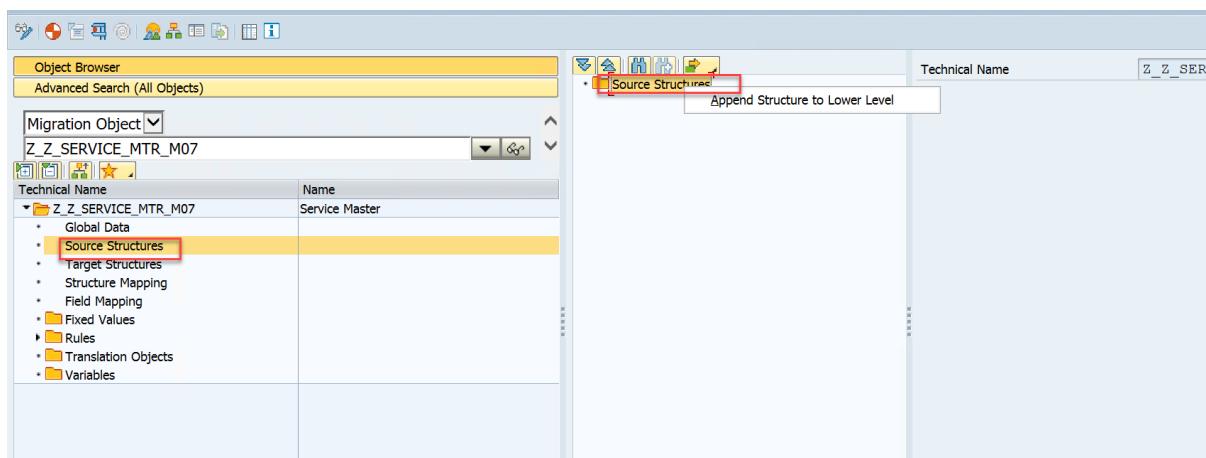
5. Enter the name of Function Module, *Return Parameter* and *TestRun* parameter so that we can do the simulation before uploading the data, then click *continue*



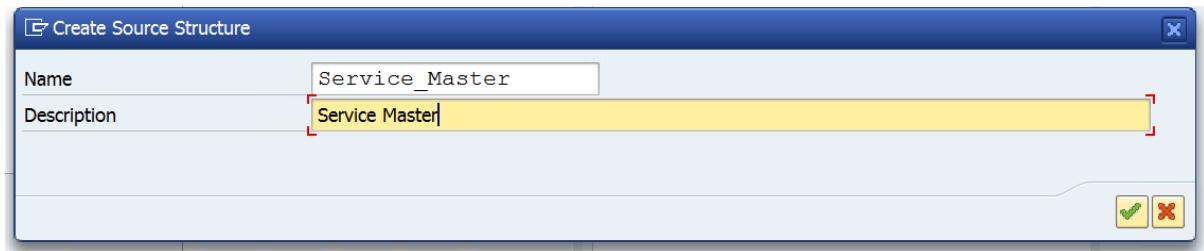
CREATE SOURCE STRUCTURE

After successfully creating the new custom object, now we create a source structure.

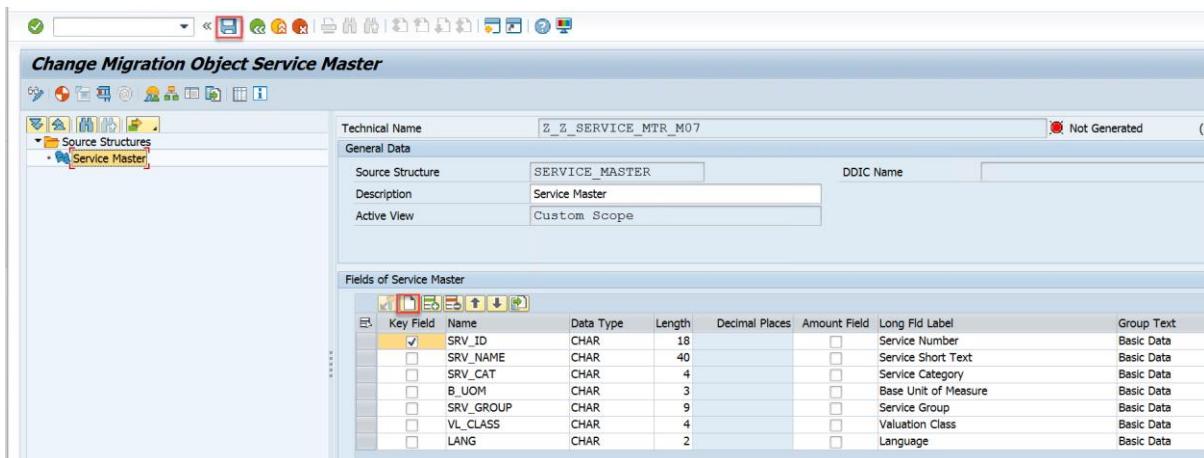
6. Double click on the *source structure* at the left sidebar, right click on the *source structure* on the right sidebar, then choose *Append Structure to Lower Level*.



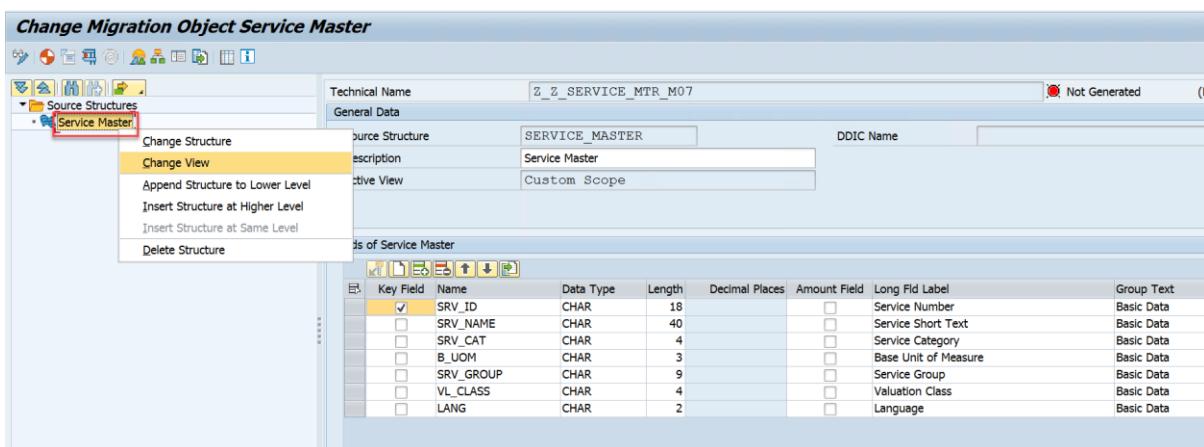
7. Enter the name of the *source structure*, then click *continue*



8. Click *add field* to enter the fields of the source structure, then click the *save*



9. You can also make certain fields to become mandatory by right click the structure and then choosing change view



Type	Name	Custom
Structure	Service Master	Required
Field	Service Number	Required
Field	Service Short Text	Required
Field	Service Category	Required
Field	Base Unit of Measure	Required
Field	Service Group	Visible
Field	Valuation Class	Visible
Field	Language	Required

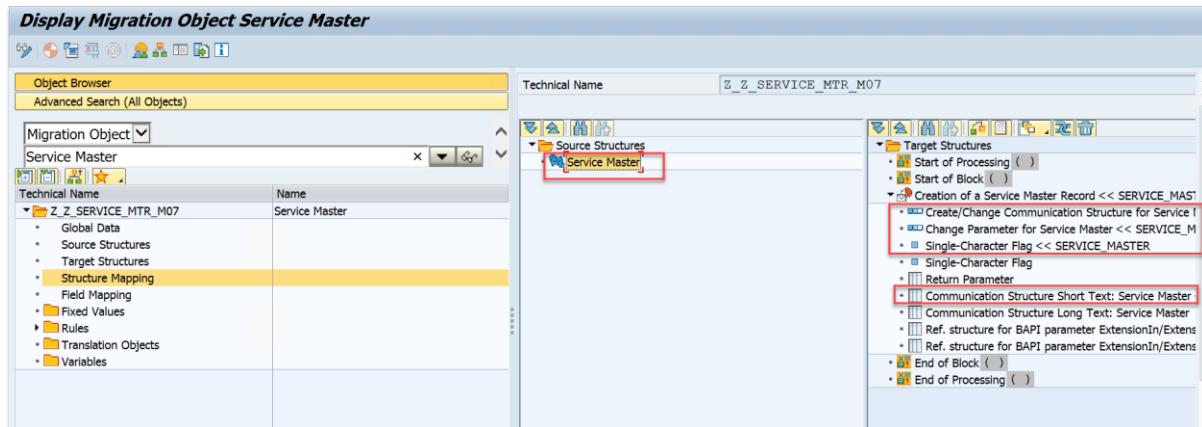
STRUCTURE MAPPING

After creating the source structure, we map our source to the target structure.

10. Double click on the *structure mapping* on the left sidebar

11. Drag our source structure to the target structure

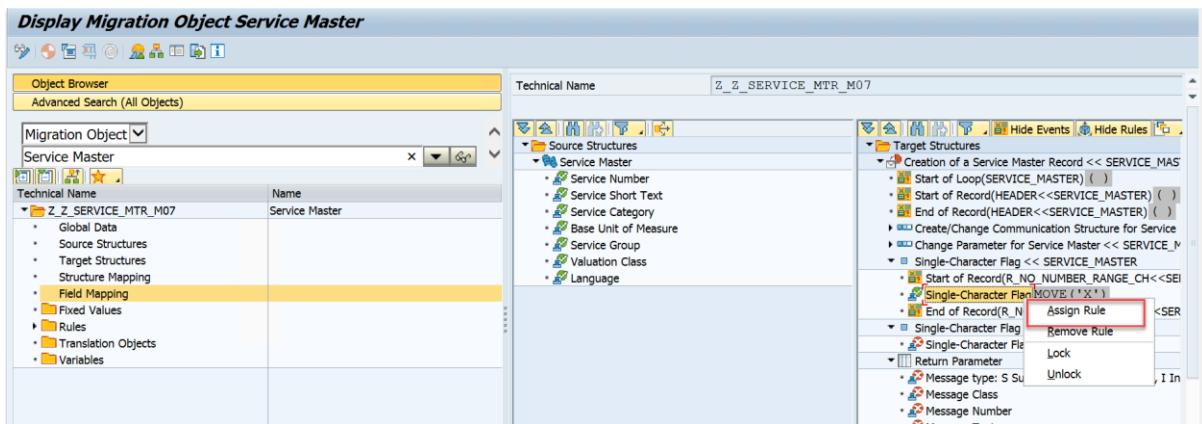
12. Drag our source structure to the target mapping field, then click the *save*



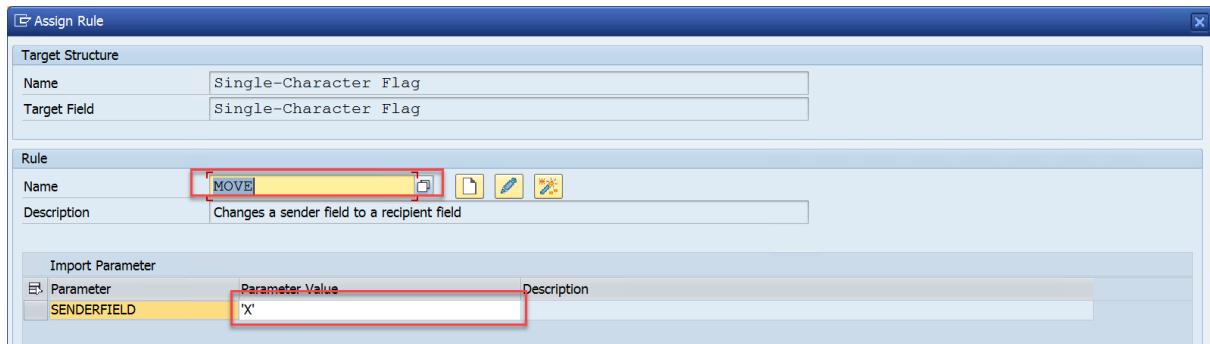
FIELD MAPPING

And the last step is field mapping our source structure to the target structure.

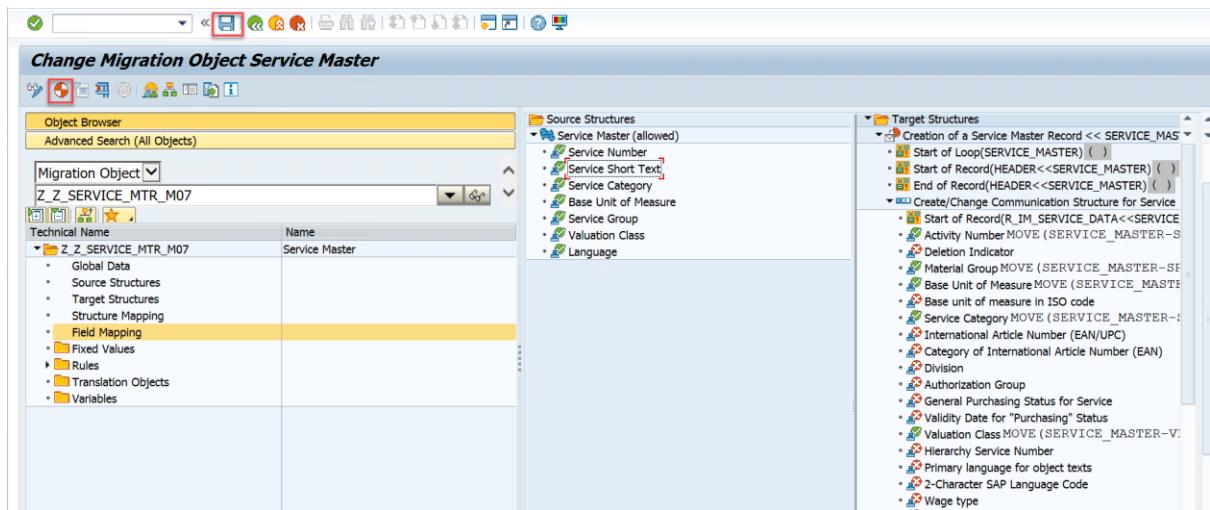
13. Double click the *Field Mapping* on the left sidebar.
14. Drag the source field to the target field just like we did in the previous step
15. Right click *Single-Character Flag Number Range Check*, then choose *assign rule*



16. Choose rule *Move* and enter parameter 'X' to assign a constant value to the field



17. Then click Save and then Generate



TESTING

1. Open *Migrate Your Data* app

2. Open your migration project

Name:	Status:	Created By:	Migration Approach:	Connection to Source System:
<input type="button" value="Go"/>	All	<input type="button" value="Go"/>	All	<input type="button" value="Go"/>

Migration Projects (5)					
<input type="checkbox"/> Name	Status	Created By / Created On	Migration Approach / Scenario	Connection to Source System	Migration Objects
<input type="checkbox"/> Griffin	Not Started		Migrate Data Using Staging Tables	Database Connection Local	3 >

3. Our new custom migration object is automatically added to the project.
Download the template

The screenshot shows the SAP Migration Project interface. At the top, there's a navigation bar with 'Migration Project' and various tabs like 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. Below the navigation bar is a search bar and a message center. The main area displays a table of migration objects. A row for 'Service Master' is highlighted with a red box around its 'Migration Object' column. To the right of the table is a context menu with options like 'Upload File', 'Download Template', 'Prepare', 'Mapping Tasks', 'Simulate', and 'Migrate'. The 'Download Template' option is also highlighted with a red box.

4. Complete the template data

The screenshot shows an Excel spreadsheet titled 'Source Data for Service Master - Excel'. The spreadsheet has a header row 'Basic Data' with columns: Service Number*, Service Short Text*, Service Category*, Base Unit of Measure*, Service Group, Valuation Class, and Language*. Below this are several data rows. Row 9: 2000022, Machine Maintenance, ZLV1, AU, P001, 3300, EN. Row 10: 2000023, Forklift Maintenance, ZLV1, AU, P001, 3300, EN. Row 11: 2000024, AC Maintenance, ZLV1, AU, P001, 3300, EN. Row 12: 2000025, Car Maintenance, ZLV1, H, P003, 3200, EN. Row 13 is empty. The Excel ribbon at the top shows standard tabs like Home, Insert, Page Layout, etc.

5. Upload the template file

The screenshot shows the 'Migration Object Tables' page for 'Service Master'. It has tabs for 'Database Connection' (Local) and 'Instances' (0). Below this is a 'Tables' section with a 'Files (1)' tab. A message box says you can upload files and transfer their content to staging tables. Under 'Validation', there's a file named 'Source data for Service Master.xml' with details: Uploaded By: [redacted], File Size: 47,3 KiB, Status: Validation Scheduled. There are 'Actions' and 'Upload' buttons at the bottom.

6. Click Prepare

Migration Project - Migration Project						
Griffin		Running Activities 0		Monitoring		
				Mapping Tasks		Job Management
Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
Product	Tables: 27 Instances: 0	Open: 4 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0	Migration Not Started Not Started: 0	Upload File
Service Master	Tables: 1 Instances: 4	Open: 0 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0	Migration Not Started Not Started: 4	Prepare
Service product	Tables: 7 Instances: 0	Open: 2 Done: 0	Errors: 0 Successful: 0	Errors: 0 Successful: 0	Migration Not Started Not Started: 0	Upload File

7. After the preparation of the staging table is completed, you can click *instance* to check your data.

SAP Migration Project ▾

Griffin R...

Monitoring Mapping Tasks Job Management Settings Finish Project

Show All Messages Actions Download Template ↑

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
Product	Tables: 27	Errors: 0	Errors: 0	Errors: 0	Migration Not Started	<input type="button" value="Upload File"/>
	Instances: 0	Open: 4	Successful: 0	Successful: 0		
		Done: 0		Not Started: 0		
Service Master Preparation completed	Tables: 1	Errors: 0	Errors: 0	Errors: 0	Migration Not Started	<input type="button" value="Prepare"/>
	Instances: 4	Open: 0	Successful: 0	Successful: 0		
		Done: 0		Not Started: 4		
Service product	Tables: 7	Errors: 0	Errors: 0	Errors: 0	Migration Not Started	<input type="button" value="Upload File"/>
	Instances: 0	Open: 2	Successful: 0	Successful: 0		
		Done: 0		Not Started: 0		

SAP Migration Object Instances ▾

Service Master (4) Griffin

Monitoring Create Correction File Mass Processing

Action/Status: Service Number: Service Short Text: Service Category: Base Unit of Measure:

Show All

Service Group: Go Adapt Filters (1)

⚠ The displayed data is from 29.05.2022 at 00:04:18 and may be out of date. [Refresh display](#)

Service Number	Service Short Text	Service Category	Base Unit of Measure	Service Group	Additional Fields	Source	Action	Status
2000022	Machine Maintenance	ZLV1	AU	P001	Display All	Source data for Service Master.xml (2022-05-28T184545Z)	None	Initial >
2000023	Forklift Maintenance	ZLV1	AU	P001	Display All	Source data for Service Master.xml (2022-05-28T184545Z)	None	Initial >
2000024	AC Maintenance	ZLV1	AU	P001	Display All	Source data for Service Master.xml (2022-05-28T184545Z)	None	Initial >

8. Choose *Simulate*, then click *start simulation*

The screenshot shows the SAP Migration Project interface. In the top right corner, there is a context menu with several options: 'Prepare', 'Download Template', 'Upload File', 'Simulate', 'Migrate', and 'Create Correction File'. The 'Simulate' option is highlighted with a red box.

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
Product	Tables: 27 Instances: 0	Open: 4 Successful: 0 Done: 0	Errors: 0 Errors: 0 Errors: 0	Successful: 0 Not Started: 0	Migration Not Started	<input type="button" value="Upload File"/>
Service Master	Tables: 1 Instances: 4	Open: 0 Successful: 0 Done: 0	Errors: 0 Errors: 0 Errors: 0	Successful: 0 Not Started: 4	Migration Not Started	<input type="button" value="Prepare"/>
Service product	Tables: 7 Instances: 0	Open: 2 Successful: 0 Done: 0	Errors: 0 Errors: 0 Errors: 0	Successful: 0 Not Started: 0	Migration Not Started	<input type="button" value="Upload File"/>

9. If the simulation is successful, you can continue to migrate the data

The screenshot shows the SAP Migration Project interface. In the top right corner, there is a context menu with several options: 'Download Template', 'Upload File', 'Prepare', 'Mapping Tasks', 'Simulate', and 'Migrate'. The 'Migrate' option is highlighted with a red box.

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
Product	Tables: 27 Instances: 0	Open: 4 Successful: 0 Done: 0	Errors: 0 Errors: 0 Errors: 0	Successful: 0 Not Started: 0	Migration Not Started	<input type="button" value="Upload File"/>
Service Master	Tables: 1 Instances: 4	Open: 0 Successful: 0 Done: 0	Errors: 0 Errors: 0 Errors: 0	Successful: 0 Not Started: 4	Migration Not Started	<input type="button" value="Prepare"/>
Service product	Tables: 7 Instances: 0	Open: 2 Successful: 0 Done: 0	Errors: 0 Errors: 0 Errors: 0	Successful: 0 Not Started: 0	Migration Not Started	<input type="button" value="Upload File"/>

The screenshot shows the SAP Migration Project interface. A modal dialog box titled "New Migration" is open over the main table. The dialog contains a dropdown menu set to "All Instances" and two buttons: "Start Migration" (highlighted with a red border) and "Cancel". The main table lists migration objects: Product, Service Master, and Service product. The Service Master row is expanded, showing "Tables: 1" and "Instances: 4". The "Migration" column for this row shows "Migration Not Started" and a "Migrate" button.

10. The migration data is successfully executed.

The screenshot shows the SAP Migration Project interface after the migration has been completed. The main table now displays the results: "Product" has 4 successful instances; "Service Master" has 4 successful instances and a progress bar at 100%; and "Service product" has 0 successful instances. The "Migration" column for the Service Master row now shows "Migration Completed" and a "Migrate" button.

Display Service 2000025

Activity number: 2000025, Activity: Car Maintenance, Service Category: ZLV1 MAINTENANCE SERVICE, Base Unit of Measure: Hours

Basic Data			
Mat/Srv.Grp:	P003	Periodic Service:	Authorization Group:
Division:		Tax Indicator:	
Valuation Class:	3200	Purchased Services:	
Formula:			
Graphic:			
Tax Tariff Code:			

Navigation links on the left include: Other Service, Expand All, Collapse All, Standard Serv. Cat., Time Mgmt, Purch. Data, Internal Work, Sales and Distribution Data, and Long Txt.

CONCLUSION

If pre-delivered LTMC objects don't yet support your migration data requirements, you can create custom objects using LTMOM with a standard or custom Function Module.

Full guide and answers for using migrate your data app in S4hana 2020

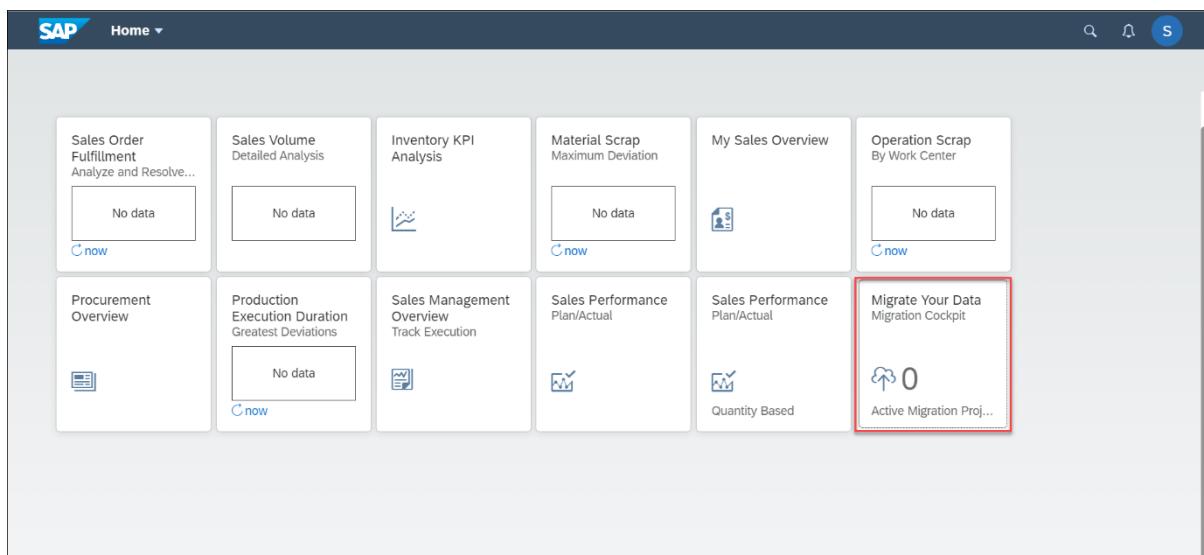
Introduction

In SAP S/4HANA 2020 and later versions, you need to use Migrate Your Data Fiori App instead of LTMC, you can still use LTMC in S4Hana 2020 but those projects will not be changed using **Migrate Your Data** app you can only display it.

1. How to create project using Migrate Your Data app
2. How to create filed mapping using download and upload function.
3. How to upload your data using XML file
4. How to transfer your project to another system
5. How to move your project between clients
6. Important information for production system
7. Important information for non-production system

How to create project using Migrate Your Data app

Click on migrate your data app



in our example we will use migrate data using staging table to upload the data using XML file format

Click on create project using staging table

The screenshot shows the SAP Migration Projects interface. At the top, there is a search bar and filter options for Name, Status, Created By, Migration Approach, and Connection to Source System. Below the filters is a button labeled "Adapt Filters (2) Go". The main area displays "Migration Projects (0)". A toolbar above the table includes "Create", "Edit", "Copy", "Delete", "Finish", and other icons. A red box highlights the "Create" dropdown menu, which contains two options: "Migrate Data Directly from SAP System" and "Migrate Data Using Staging Tables". The "Migrate Data Using Staging Tables" option is also highlighted with a red box.

choose your project name and mass transfer ID that will help you later to transfer your project between your clients

then click on step 2

The screenshot shows the "New Migration Project" setup. It is divided into two tabs: "General Data" (selected) and "Migration Objects". Under "General Data", there is a section titled "1. General Data" with a note: "Here, you specify general information for your project. Note that it will not be possible to change the mass transfer ID or the database connection after you create the project." The "Migration Approach" is set to "Migrate Data Using Staging Tables". The "Name" field contains "ZSD_open sales order", and the "Mass Transfer ID" field contains "M92", with a "Display Next Available" button next to it. Under "Database Connection", the "Local SAP S/4HANA Database Schema" option is selected. At the bottom left, a red box highlights the "Step 2" button, with a red arrow pointing to it from the left.

you will be transferring to migration object screen, you need to search for specific object then select it

in my case i will choose open sales order object

The screenshot shows the SAP New Migration Project interface. The top navigation bar has 'SAP' and 'New Migration Project'. Below it, two tabs are visible: '1 General Data' and '2 Migration Objects', with '2 Migration Objects' highlighted and a red box around its tab number. The main area is titled '2. Migration Objects' with the sub-instruction '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.' A search bar contains 'sales order' with a magnifying glass icon. Below it, a table lists 'Available Migration Objects' with columns for Name, Predecessor, and Documentation. An entry 'SD - Sales order (only open SO)' is selected and highlighted with a red box. To the right, a table shows the 'Selected Migration Object' with the same columns. Below these tables are two blue arrows: a right-pointing arrow above a left-pointing arrow. At the bottom are 'Review' and 'Cancel' buttons.

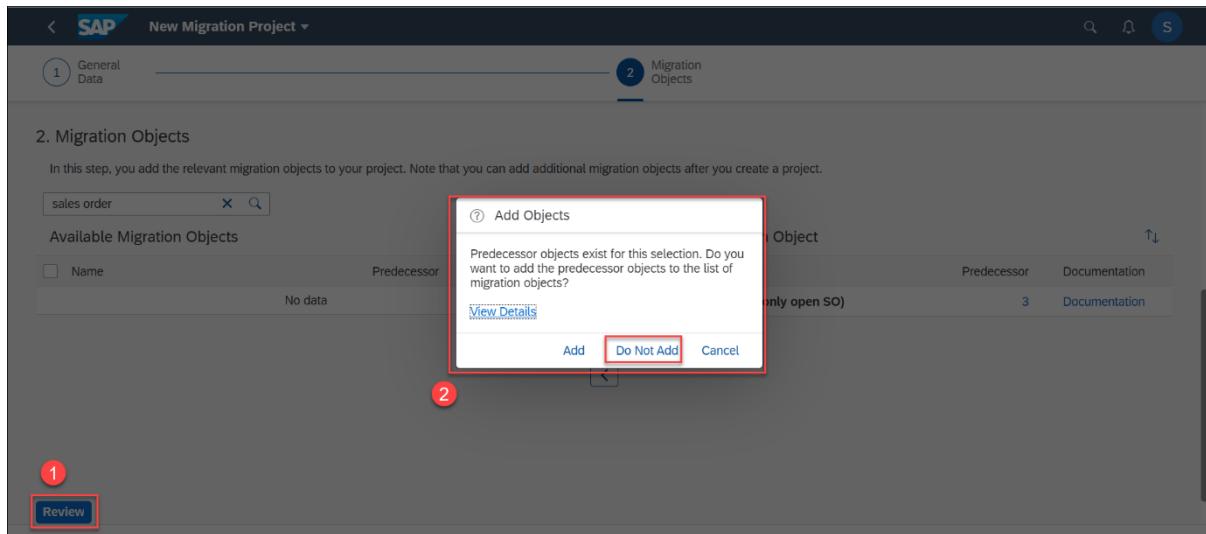
select the migration object and click on move bottom to include the object to your project

Note : you can include more than one migration object in your project

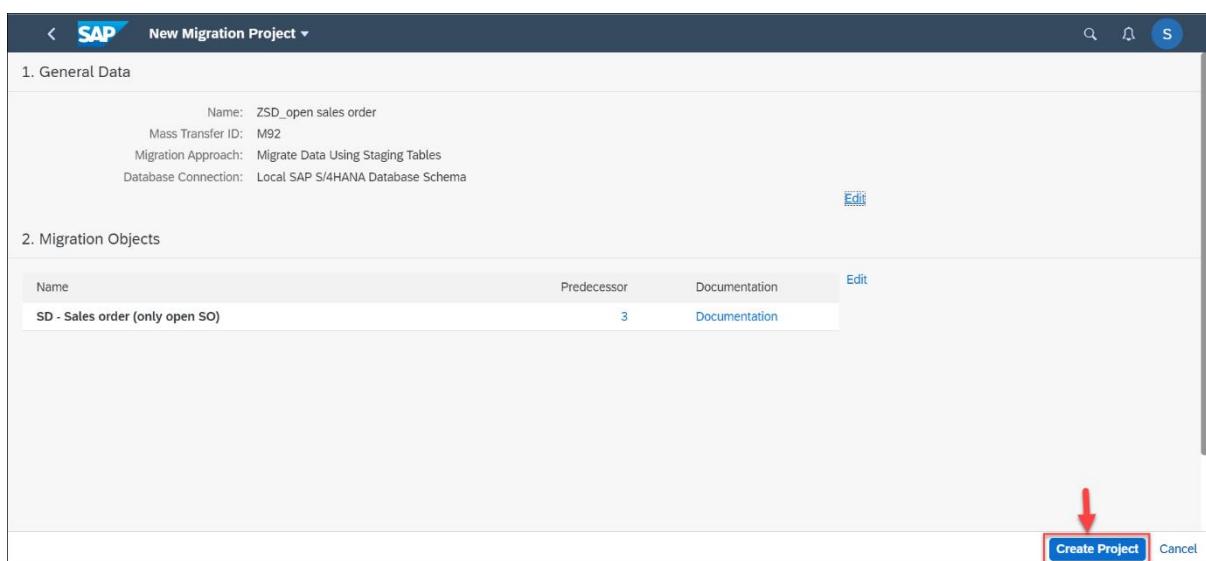
This screenshot shows the same SAP interface after an object has been added. The 'Available Migration Objects' table now shows 'No data'. The 'Selected Migration Object' table now contains the single item 'SD - Sales order (only open SO)' with a documentation link. The blue move arrows are still present below the tables. The 'Review' and 'Cancel' buttons are at the bottom.

then click on review

then below message will appear asking for your permission to add another related object ? in my case I will choose **do not add**



below screen will show you overview of your project and migration object
click on create project



now your project is created with your migration object and ready to download your template file and proceed to migrate your data

The screenshot shows the SAP Migration Projects interface. At the top, there is a search bar labeled 'Search' with a magnifying glass icon, and several filter dropdowns for 'Name', 'Status', 'Created By', 'Migration Approach', and 'Connection to Source System', all set to 'All'. Below the filters is a button 'Adapt Filters (2) Go'. The main area displays a table titled 'Migration Projects (1)'. The table has columns: Name, Status, Created By / Created On, Migration Approach / Scenario, Connection to Source System, and Migration Objects. A single row is shown for 'ZSD_open sales order', which is highlighted with a red border. The 'Migration Objects' column shows a value of '1' with a right-pointing arrow.

Name	Status	Created By / Created On	Migration Approach / Scenario	Connection to Source System	Migration Objects
ZSD_open sales order	Not Started	04.10.2021, 16:32:42	Migrate Data Using Staging Tables	Database Connection Local	1 >

How to create field mapping using download and upload function

in this section we will explain how to map the value you inserted in the XML file with SAP value

click on created project

This screenshot is identical to the one above, showing the SAP Migration Projects interface with a single project named 'ZSD_open sales order'. The project row is highlighted with a red border.

you will find that there is an open mapping tasks

ZSD_open sales order | Running Activities 0

Migration Approach: Migrate Data Using Staging Tables Mass Transfer ID: M92 Database Connection: Local

Show All	Search	Messages	Actions	Download Template		
Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input type="checkbox"/> SD - Sales order (only open SO)	Tables: 8	Open: 1	Errors: 0	Errors: 0		
	Instances: 0	Done: 0	Successful: 0	Successful: 0	Migration Not Started	<input type="button" value="Upload File"/>
					Not Started: 0	

select the object and click on mapping tasks

ZSD_open sales order | Running Activities 0

Migration Approach: Migrate Data Using Staging Tables Mass Transfer ID: M92 Database Connection: Local

Show All	Search	Messages	Actions	Download Template		
Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
<input checked="" type="checkbox"/> SD - Sales order (only open SO)	Tables: 8	Open: 1	Errors: 0	Errors: 0		
	Instances: 0	Done: 0	Successful: 0	Successful: 0	Migration Not Started	<input type="button" value="Upload File"/>
					Not Started: 0	

here you have 2 options to do mapping, you can download the fields you need to map then edit that field in XML then upload it again or you can do the field mapping directly in the project

now we will see the option of create mapping directly in the project

in our case we need to map the number range for sales order if it external or internal, click on mapping task.

The screenshot shows the SAP Mapping Tasks interface. At the top, there's a header with the SAP logo and a dropdown menu. Below the header, it says 'Mapping Tasks [Running Activities 0]' and 'Migration Project: ZSD_open sales order'. On the right side of the header, there are links for 'Monitoring', 'Download Mapping Templates', 'Upload Values', and a refresh icon. Underneath the header, there are two status indicators: '1 Mapping Tasks' with a checkmark icon and '1 To be Confirmed' with a green checkmark icon. A message at the top states: 'The displayed data is from 10/4/2021 at 4:52:51 PM and may be out of date. Refresh display'. Below this is a search bar and a table with columns: 'Mapping Task', 'Status', 'Type', and 'Values'. A single row is selected, highlighted with a red border, representing a 'Sales Order, internal or external numbering' task with status 'To be confirmed' and type 'Control Parameter'. There are also 'Confirm' and 'Download Values' buttons.

below screen will open, in the left side you will see the mapping task and you can change or confirm it on the right side of the screen.

This screenshot provides a detailed view of the SAP Mapping Tasks interface for the 'Sales Order, internal or external numbering' task. The left sidebar shows a list of tasks, with the current one selected. The main panel displays the task details: 'Status: To be confirmed', 'Type: Control Parameter', and 'Used in: Migration Objects'. On the right, there are two tabs: 'Values' and 'Technical Information'. The 'Values' tab is active, showing a table with one row: 'Default' (Customizing) and '00000' (Status: To be confirmed). There are 'Search', 'Confirm', and sorting icons above the table. The 'Technical Information' tab is visible but currently inactive.

click on customizing and choose the right mapping as per you requirement

The screenshot shows the SAP Mapping Tasks interface. On the left, a sidebar displays a mapping task for "Sales Order, internal or external numbering" with a status of "To be confirmed". The main panel shows the technical information for this task, specifically a control parameter used in migration objects. A "Values" tab is selected, displaying a list of values. The first value, "00001", is highlighted with a red box around its status field, which is also labeled "To be confirmed".

in my case I will select **internal numbering**

A modal dialog box titled "Target Value" is displayed. It contains a search bar and a table with two rows. The first row, "00001 internal numbering", is highlighted with a red box. The second row, "00002 external numbering", is also present. At the bottom right of the dialog is a "Cancel" button.

status changed to revised, then confirm to continue

The screenshot shows the SAP Mapping Tasks interface again. The mapping task for "Sales Order, internal or external numbering" now has a status of "Revised". In the "Values" tab, the value "00001" has its status field also changed to "Revised". The "Confirm" button is highlighted with a red box.

status changed to confirmed

The screenshot shows the SAP Mapping Tasks interface. On the left, a sidebar lists 'Mapping Tasks (1)' for the project 'ZSD_open sales order'. One task, 'Sales Order, internal or external numbering', is highlighted and its status is shown as 'Confirmed' (boxed in red). On the right, the details for this task are displayed, including its type as 'Control Parameter' and its use in 'Migration Objects'. Below this, a table shows 'Values (1)' for the task, with one entry: '00001' in the 'Customizing' column and 'Confirmed' in the 'Status' column (also boxed in red).

second option is to do mapping using XML file then upload it again with the mapping value

this option will help you to keep all mapping tasks in one file to upload it again in another client

Select mapping task and click on download value then go to monitoring to download the XML file

The screenshot shows the SAP Mapping Tasks interface. The 'Monitoring' tab is selected (boxed in red). In the main area, there is a warning message: 'The displayed data is from 10/4/2021 at 5:10:58 PM and may be out of date. Refresh display'. Below this, a table lists 'Mapping Tasks'. A single task, 'Sales Order, internal or external numbering', is selected (boxed in red) and its status is 'Confirmed'. To the right of the table, there are buttons for 'Download Mapping Templates' and 'Upload Values'. A red circle labeled '1' is on the checkbox for the selected task. A red circle labeled '2' is on the 'Download Values' button. A red circle labeled '3' is on the 'Monitoring' tab.

choose mapping project and click on download file

The screenshot shows the SAP Monitoring interface. At the top, it displays 'All Jobs 15', 'Used Jobs 0', and 'Free Jobs 6'. Below this, there are filters for 'Activity' (All Actions), 'Status' (Failed 5 More), 'Object Type' (All Types), 'Object Name' (empty), 'Started by' (empty), and 'Started On' (empty). The 'Finished On' field is also empty. There are buttons for 'Adapt Filters (3)' and 'Go'. The main area is titled 'Activities (4)' and lists four tasks:

Activity	Object Type/Name	Started By/On	Active Jobs	Additional Information	Options
Download mapping values	Migration Project			Finished On: 04.10.2021, 17:13:16	Download File
Completed	ZSD_open sales order	04.10.2021, 17:13:16		Runtime: 0 Minutes	
Prepare migration object	Migration Object			Finished On: 04.10.2021, 16:33:21	Show Messages
Completed	SD - Sales order (only open SO)	04.10.2021, 16:33:13		Runtime: 1 Minutes	
Copy migration object to project	Migration Object			Finished On: 04.10.2021, 16:33:13	Show Messages
Completed	SD - Sales order (only open SO)	04.10.2021, 16:32:43		Runtime: 1 Minutes	

after download the file edit the data in the XML file then upload it again

The screenshot shows the SAP Mapping Tasks interface. At the top, it displays 'Mapping Tasks 0' and 'Running Activities 0'. Below this, it says 'Migration Project: ZSD_open sales order'. It shows 1 Mapping Tasks, 0 To be Confirmed, and 1 Confirmed. A message at the bottom left says 'The displayed data is from 10/4/2021 at 5:10:58 PM and may be out of date. Refresh display'. At the bottom right, there are buttons for 'Search', 'Confirm', 'Download Values', and a refresh icon.

Mapping Task	Status	Type	Values
Sales Order, internal or external numbering	Confirmed	Control Parameter	1 >

How to upload your data using XML file

open migrate your data app then select your project as below

click on project name

The screenshot shows the SAP Migration Projects interface. At the top, there is a search bar and filter options for Name, Status, Created By, Migration Approach, and Connection to Source System. Below the filters is a button labeled "Adapt Filters (2) Go". The main area displays a table titled "Migration Projects (1)". The table has columns for Name, Status, Created By / Created On, Migration Approach / Scenario, Connection to Source System, and Migration Objects. One project is listed: "ZSD_open sales order" (Status: Not Started, Created On: 04.10.2021, 16:32:42, Scenario: Migrate Data Using Staging Tables, Connection: Database Connection Local). There are buttons for Edit, Finish, and sorting at the top of the table.

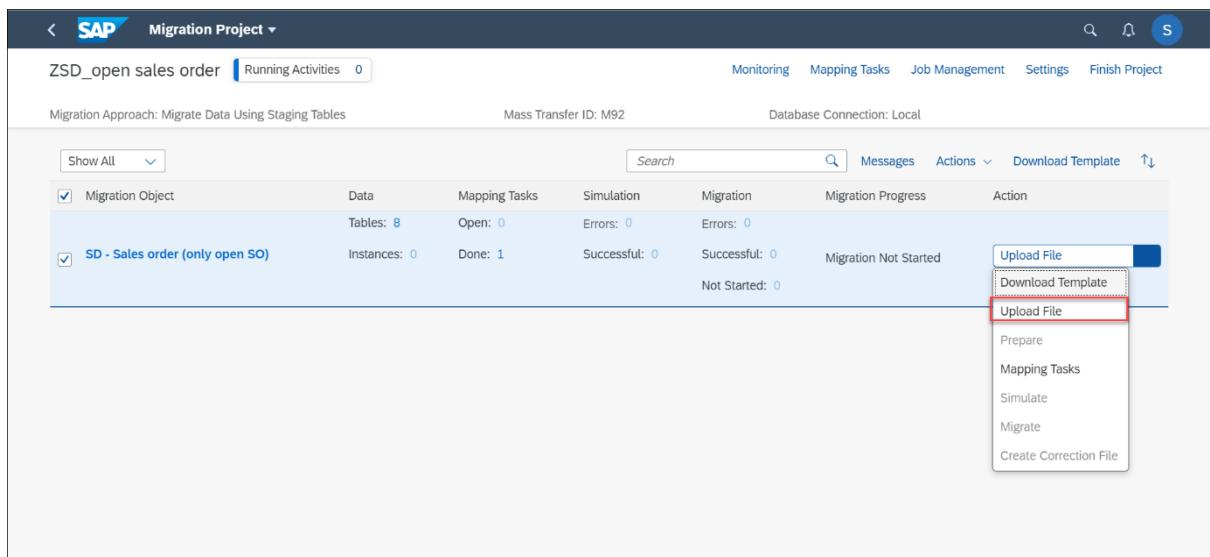
select your migration object and choose download template

The screenshot shows the SAP Migration Project interface for the project "ZSD_open sales order". At the top, it shows the migration approach as "Migrate Data Using Staging Tables" and the mass transfer ID as "M92". The database connection is set to "Local". Below this is a table with columns for Show All, Migration Object, Data, Mapping Tasks, Simulation, Migration, Migration Progress, and Action. One row is selected: "SD - Sales order (only open SO)" (Tables: 8, Open: 0, Errors: 0, Instances: 0, Done: 1, Successful: 0, Migration: Not Started). A red arrow points to the "Migration Object" column of this row. To the right of the table, there are buttons for Search, Messages, Actions, and a red box highlights the "Download Template" button. Below the table is a "Upload File" button.

after downloading the template you can open it and fill the data as per your requirement then save the file

Source Data (only open SO)										
Key	Main data									
Legacy Sales Document*	Division*	Sales Office	Sales Group	Customer purchase order	Requested delivery date*	Customer purchase order date	Billing block in SD document			
1	00				05.10.2021					
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										

and click on upload file



The screenshot shows the SAP Migration Project interface. At the top, it displays 'Migration Project' and the current project 'ZSD_open sales order'. Below this, there are tabs for 'Monitoring', 'Mapping Tasks', 'Job Management', 'Settings', and 'Finish Project'. The main area shows migration statistics: 'Migration Approach: Migrate Data Using Staging Tables', 'Mass Transfer ID: M92', and 'Database Connection: Local'. A table lists migration objects, with 'SD - Sales order (only open SO)' selected. The table columns include 'Migration Object', 'Data', 'Mapping Tasks', 'Simulation', 'Migration', 'Migration Progress', and 'Action'. In the 'Action' column for the selected object, a context menu is open, showing options: 'Upload File', 'Download Template', 'Prepare', 'Mapping Tasks', 'Simulate', 'Migrate', and 'Create Correction File'. The 'Upload File' option is highlighted with a red box.

below screen will open > click on upload then choose your file location

The screenshot shows the SAP Migration Object Tables interface for a project named 'ZSD_open sales order'. The 'Tables' tab is selected, showing 0 tables. The 'Files' tab is selected, showing 0 files. A message box indicates that files can be uploaded and transferred to SAP S/4HANA. An 'Upload' button is highlighted with a red box.

wait until uploading is finish, the uploaded file will appear in the below section

The screenshot shows the SAP Migration Object Tables interface for the same project. The 'Tables' tab is selected, showing 0 tables. The 'Files' tab is selected, showing 1 file. The file listed is 'EN_SD - Sales order (only open SO).xml', which was uploaded by the user. The file status is 'Validation Scheduled'. A red box highlights the uploaded file entry.

then wait until the file is transferred

The screenshot shows the SAP Migration Object Tables interface. At the top, it displays the project 'SD - Sales order (only open SO)' and migration details: 'Migrate Data Using Staging Tables', 'Project: ZSD_open sales order', 'Database Connection: Local', 'Instances: 1', and 'Migration Progress: Migration Not Started'. Below this, there are tabs for 'Tables' and 'Files (1)'. A message box indicates that files can be uploaded and transferred to staging tables. Under the 'Files' tab, a file named 'EN_SD - Sales order (only open SO).xml' is listed as 'Finished'. The file details show it was uploaded by 'SOLEX SD' on 'Tue Oct 05 2021 10:30:32 GMT+0200' with a size of '174,3 KiB'. A status message 'Status: Data Successfully Transferred To Staging Tables' is highlighted with a red box. A red arrow points to this status message.

go back and select simulate

The screenshot shows the SAP Migration Project interface. It displays a project named 'ZSD_open sales order' with 'Running Activities: 0'. The migration approach is 'Migrate Data Using Staging Tables' and the mass transfer ID is 'M92'. The database connection is 'Local'. A table lists migration objects: 'SD - Sales order (only open SO)' with 'Tables: 8', 'Instances: 1', 'Done: 1', 'Successful: 0', and 'Migration Not Started'. A red arrow points to the 'SD - Sales order (only open SO)' row. A context menu is open over the 'Action' column for this row, with the 'Simulate' option highlighted with a red box. Other options in the menu include 'Download Template', 'Upload File', 'Prepare', 'Mapping Tasks', 'Migrate', and 'Create Correction File'.

wait until simulation is done, if there is an error you will find it as below
 there is an error in task mapping we will map it as we discussed in the previous section in this blog

click on mapping task

SAP Migration Project

ZSD_open sales order | Running Activities 0 | Activities with Error 1

Monitoring Mapping Tasks Job Management Settings Finish Project

Migration Approach: Migrate Data Using Staging Tables Mass Transfer ID: M92 Database Connection: Local

Show All	Search	Messages	Actions	Download Template		
<input checked="" type="checkbox"/> Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
SD - Sales order (only open SO)	Tables: 8	Open: 7	Errors: 1	Errors: 0		
<input checked="" type="checkbox"/>	Instances: 1	Done: 1	Successful: 0	Successful: 0	Migration Not Started	
					Not Started: 1	
						Mapping Tasks

then map and confirm all tasks as explained in the above section of this blog

SAP Mapping Tasks

Mapping Tasks | Running Activities 0 | Activities with Error 1

Monitoring Download Mapping Templates Upload Values

Migration Project: ZSD_open sales order Migration Object: SD - Sales order (only open SO)

8 Mapping Tasks | 7 To be Confirmed | 1 Confirmed

The displayed data is from 10/5/2021 at 10:40:47 AM and may be out of date. Refresh display

Mapping Task	Status	Type	Values
Mapping of Customer	To be confirmed	Value Mapping	1 >
Mapping of Distribution Channel	To be confirmed	Value Mapping	1 >
Mapping of Division	To be confirmed	Value Mapping	1 >
Mapping of Partner Function-Customer	To be confirmed	Value Mapping	1 >
Mapping of Product	To be confirmed	Value Mapping	1 >
Mapping of Sales Document Type	To be confirmed	Value Mapping	1 >
Mapping of Sales Organization	To be confirmed	Value Mapping	1 >
Sales Order, internal or external numbering	Confirmed	Control Parameter	1 >

after confirming all task needed you can go back and simulate again, you will see that there is no error in simulation

The screenshot shows the SAP Migration Project interface. At the top, there's a header with the SAP logo and the title 'Migration Project'. Below the header, it says 'ZSD_open sales order' with 'Running Activities 0' and 'Activities with Error 5'. The main area displays migration details: 'Migration Approach: Migrate Data Using Staging Tables', 'Mass Transfer ID: M92', and 'Database Connection: Local'. A table provides a summary of migration objects:

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
SD - Sales order (only open SO)	Tables: 8 Instances: 1	Open: 1 Done: 7	Errors: 0 Successful: 1	Errors: 0 Successful: 0	Migration Not Started Not Started: 1	Mapping Tasks

A red arrow points to the 'Simulation completed' status under the 'SD - Sales order (only open SO)' row.

click on migrate to start migrate your data

This screenshot is similar to the first one, showing the SAP Migration Project interface for the same project and activity. The table data is identical. A red arrow points to the 'Migrate' button in a context menu that has been opened by clicking on the 'Action' column for the 'SD - Sales order (only open SO)' row. The context menu includes options like 'Download Template', 'Upload File', 'Prepare', 'Mapping Tasks', 'Simulate', 'Migrate' (which is highlighted with a red box), and 'Create Correction File'.

after completing the migration you will see that your data is migrated successfully

The screenshot shows the SAP Migration Project interface. At the top, it displays 'ZSD_open sales order' with 1 running activity and 5 activities with errors. The navigation bar includes Monitoring, Mapping Tasks, Job Management, Settings, and Finish Project. Below this, it shows 'Migration Approach: Migrate Data Using Staging Tables', 'Mass Transfer ID: M92', and 'Database Connection: Local'. A search bar and message center are also present. The main area lists migration objects, with one entry for 'SD - Sales order (only open SO)' highlighted. This entry shows 'Tables: 8', 'Instances: 1', 'Open: 1', 'Done: 8', 'Errors: 0', 'Successful: 1', and 'Not Started: 0'. A progress bar indicates 100% completion, and a 'Migrate' button is available. A red box highlights this row.

How to transfer your project to another client

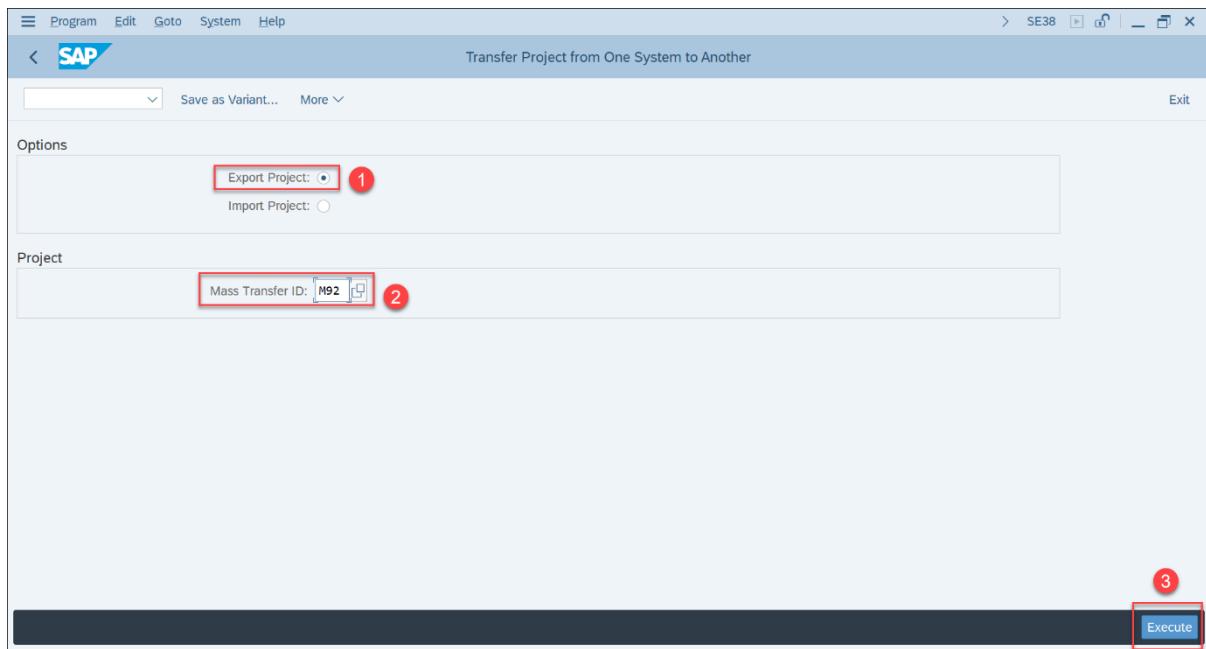
Go to source system for example DEV system (which you create a project on it)

Execute t-code SE38

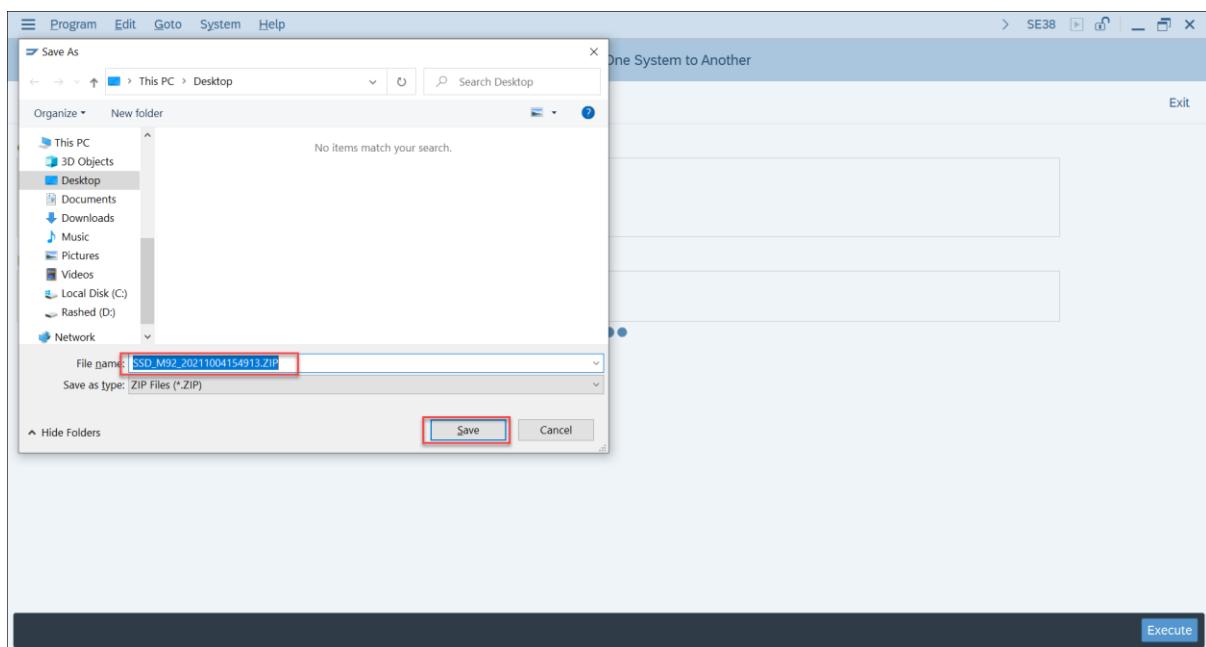
Execute report /LTB/MC_PROJ_Q2P

The screenshot shows the ABAP Editor: Initial Screen with the title bar 'SE38'. The toolbar includes Program, Edit, Goto, Utilities, Environment, System, Help, Check, Activate, Execute (which is highlighted with a red box), Where-Used List, Environment Analysis, Online Help, Delete..., Copy..., Rename..., More, and Exit. The main area has a search bar and a 'Create' button. The 'Program' field contains '/LTB/MC_PROJ_Q2P'. Below it, a 'Search Results' table shows one result: 'Program Report title /LTB/MC_PROJ_Q2P Transfer Project from One System to Another'. On the left, there's a 'Subobjects' section with radio buttons for Source Code (selected), Variants, Attributes, Text elements, and Documentation. At the bottom are 'Display' and 'Change' buttons.

click on export, then insert your mass ID you have inserted when you create the project

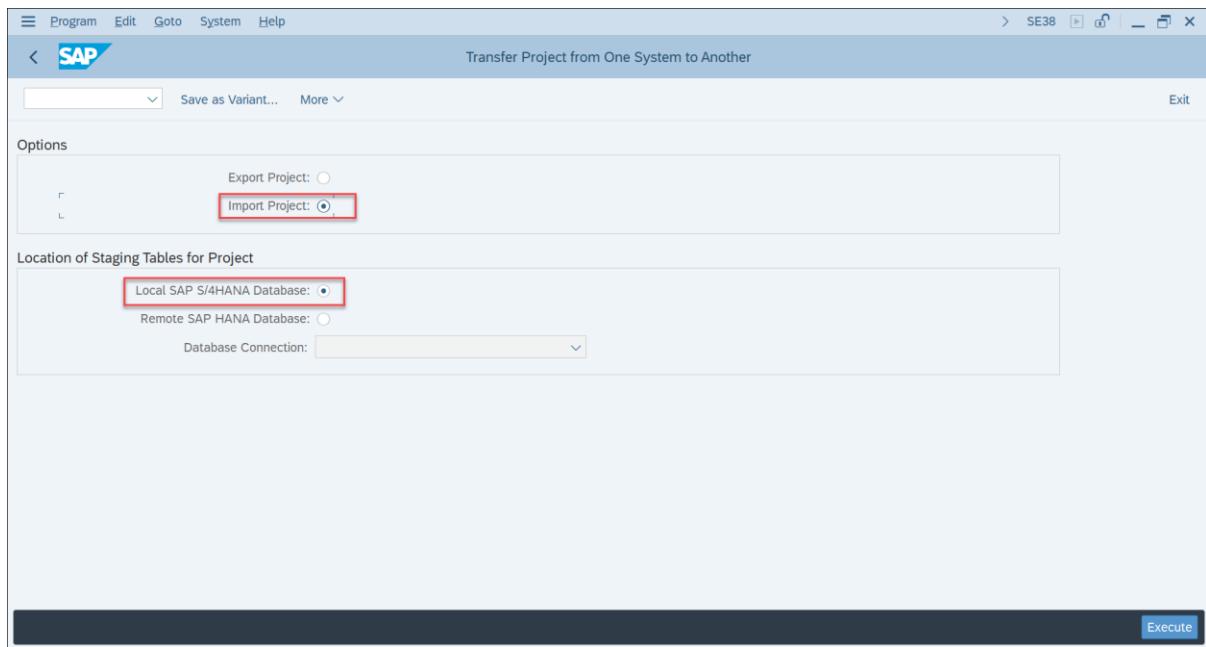


choose the location to save the project file

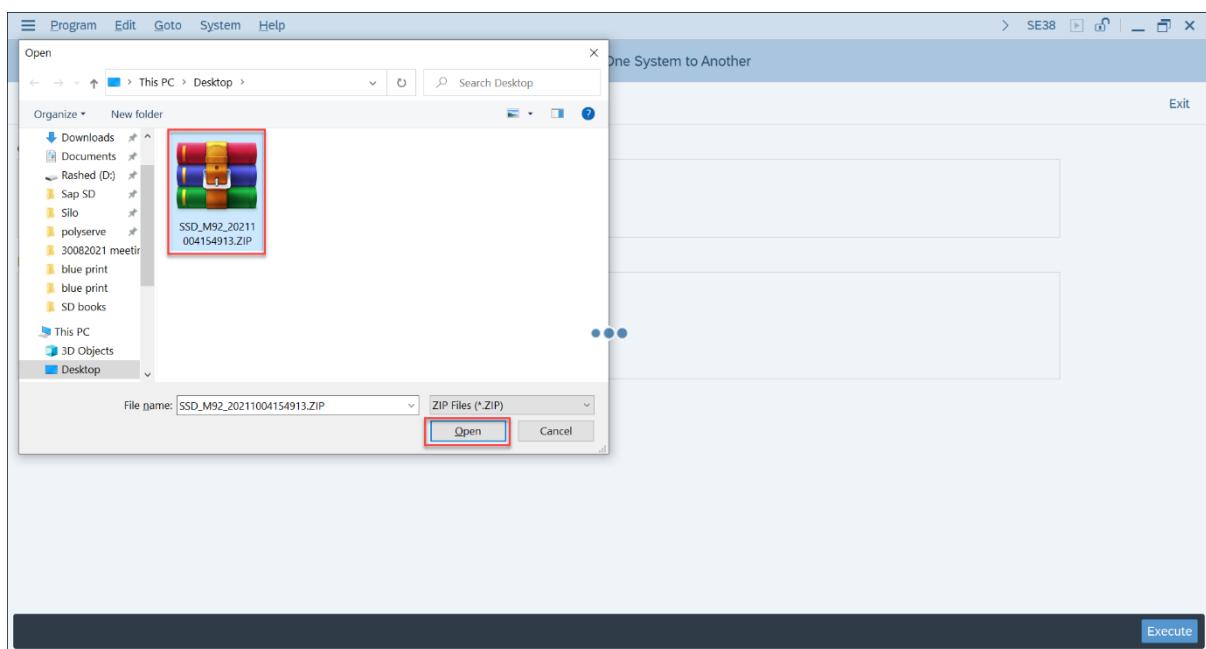


Then go to the target system (for example production system) and Import the project file that you save earlier

go to Se38 > insert program : /LTB/MC_PROJ_Q2P > execute > then choose import, select an option of local sap s4hana database



then execute and choose the program file you have saved earlier from source system



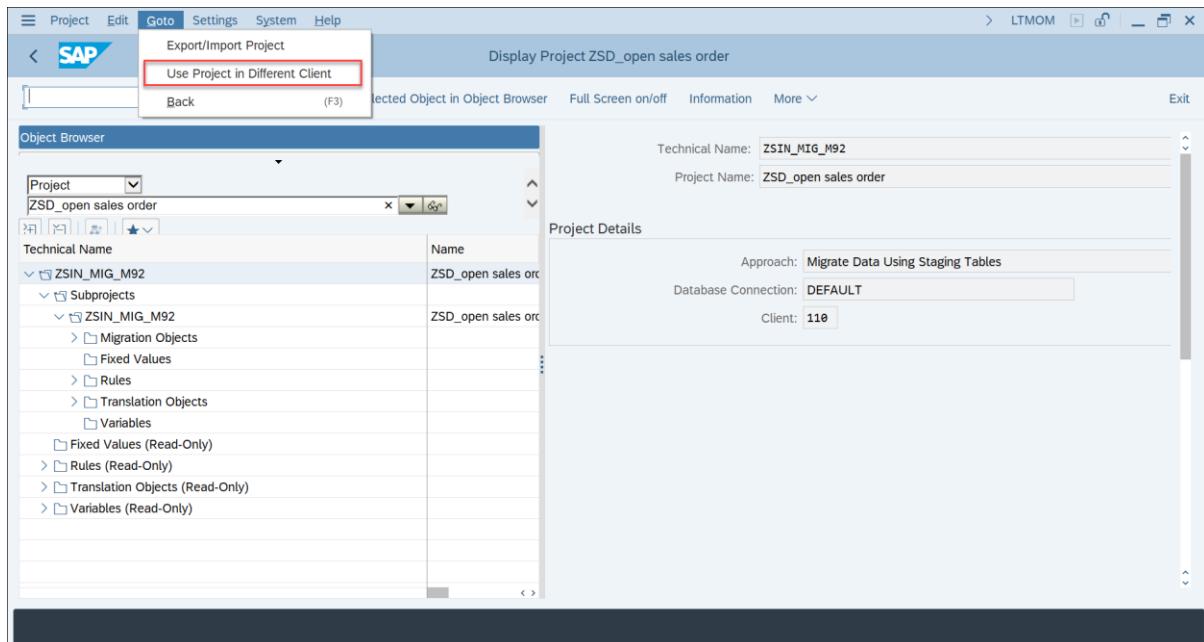
project will transfer successfully and you can use it in production server

NOTE : instead of using se38 and execute the program, you can do the same from LTMOM it will transfer you to the program directly to export and import your project

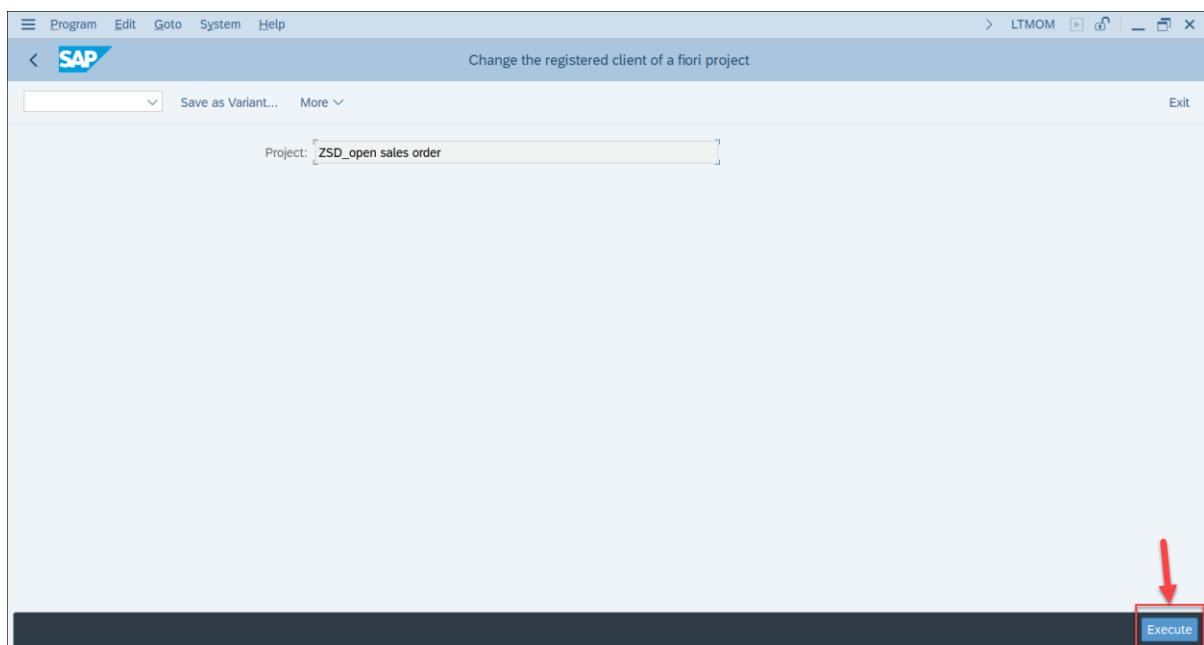
how to move your project between clients

you have an option in LTMOM to move the project from client to another client, for example you want to move your project from DEV 100 to DEV 110, this option will help you do that and remove the project from DEV 100

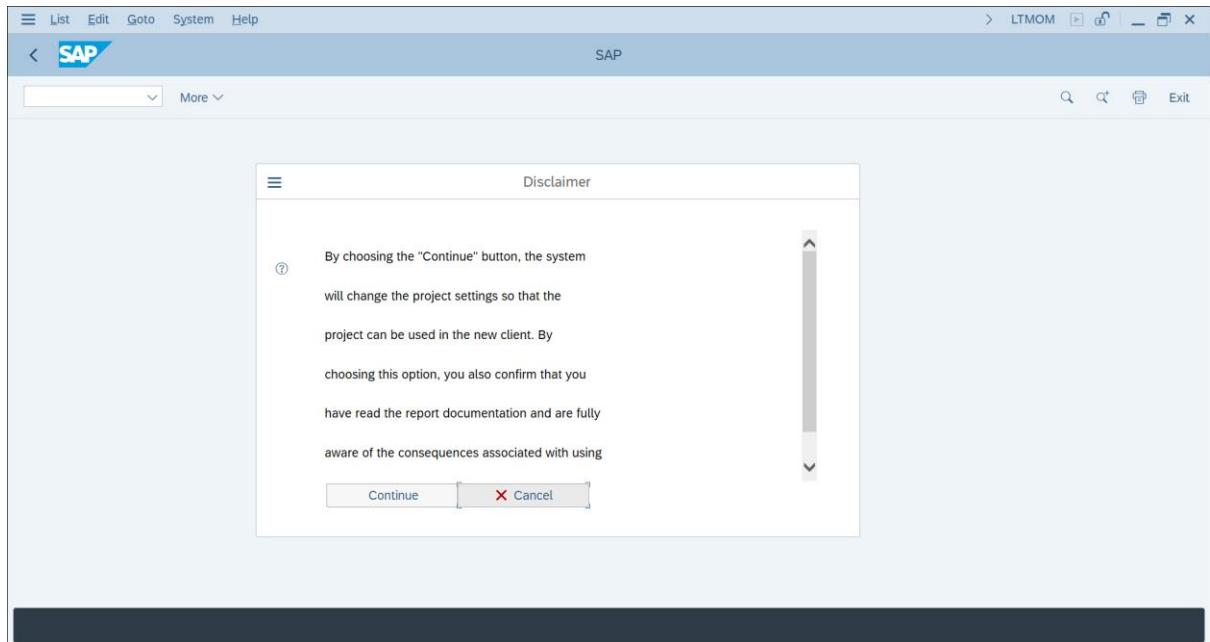
Go to T-code: LTMOM in target client > choose your project > Go to > use project in different client



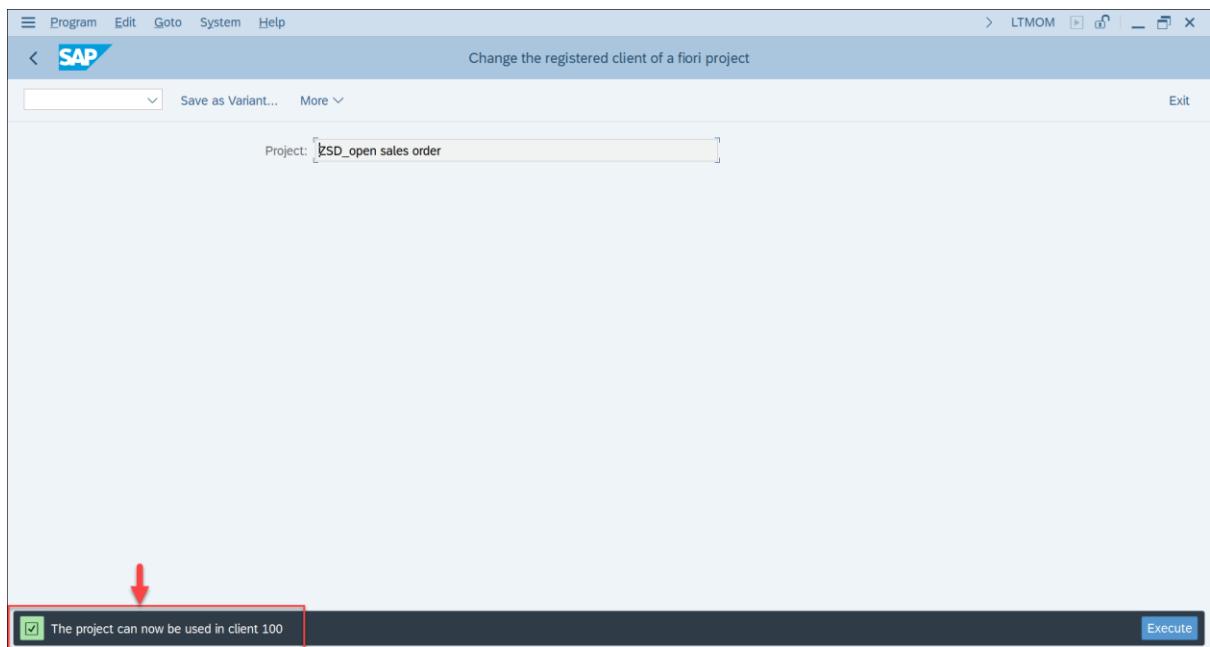
then execute



below screen will open, click on continue



the project will be moved from the source client to the target client



Important information for production system (non modifiable system)

It is not possible to create or modify projects in production system. You cannot, for example, remove a migration object. If you need to make such

changes, you can change the project in the source system and transfer it again to the target, creation option will not be available in production system

Example: You transfer a project that contains migration objects A, B, and C to the target system. In the source system you remove object C. You transfer the project again to the target. The project in the target system will now contain objects A and B only.

below screen from production system, as you see there is no option to create a new project

The screenshot shows the SAP Migration Projects interface. At the top, there is a search bar with a placeholder 'Search' and a magnifying glass icon. Below the search bar are several filter dropdowns: 'Name', 'Status' (set to 'All'), 'Created By' (set to 'All'), 'Migration Approach' (set to 'All'), and 'Connection to Source System' (set to 'All'). To the right of these filters is a button labeled 'Adapt Filters (2) Go'. Below the filters, the title 'Migration Projects (0)' is displayed. A red box highlights the first column of the table below. The table has columns for 'Name', 'Status', 'Created By / Created On', 'Migration Approach / Scenario', 'Connection to Source System', and 'Migration Objects'. A message at the bottom of the table says 'No data found. Try adjusting the filter settings.' There are also buttons for 'Edit', 'Finish', and sorting.

Additional Information for non-Production Systems

You can create and modify projects in any system that is not a production system. If you add an object in the target system, it will not be removed if you transfer the project again.

Example: You create a project with migration objects A, B, and C. You transfer this project to a non-production target system. In the target system, you add object D. The project in the target system contains objects A, B, C, and D. In the source system, you remove object C, and then transfer the project again to the target system. The project in the target system now contains object A, B, and D.

below screen from non production system (DEV), as you see there is no option to create a new project

Conclusion:

now you can create and edit your project and migration objects, transfer and move your migration project between your systems

LTMC replaced with Migrate Your Data (2/2)

After the Release of the 2020 version. The migration cockpit process has changed which we discussed in the previous blog Part 1.

SAP S/4HANA migration cockpit –Migrate data using staging tables



SAP Fiori app
Migrate Your Data

Process and content

Data load

SAP S/4HANA Cloud 2008: +145
SAP S/4HANA (OP) 2020: +115

Migration objects

*Current state of planning

Predefined file templates and staging table definitions for each migration object

SAP S/4HANA EX 2102*
SAP S/4HANA (OP) 2020

In SAP S/4HANA 2020 and later versions, we need to use **Migrate Your Data** Fiori App instead of LTMC.

SAP S/4HANA Migration Cockpit – Available Apps

Deprecation information in different versions

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

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



Recommendation

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



Details in [KBA 2988692](#)

Now let us see steps to upload data using staging tables.

1. Open App Migrate Your Data App

2. Create a new project.

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

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

Name	Status	Created By / Created On	Migration Approach / Scenario
RUTHVIK	In Process	RUTHVIK 29.04.2021, 12:39:10	Migrate Data Using Staging Tables

3. Select Migrate data using the Staging Tables option.

1. General Data

 Here, you specify general information for your project. Note that it will not be p

Migration Approach: Migrate Data Using Staging Tables

Name:*

Ruthvik Chowdary

Mass Transfer ID:*

O1X

Display Next Available

Ruthvik Chowdary

Database Connection:*

Local SAP S/4HANA Database Schema

Remote SAP HANA Database Schema

Step 2

In Database Connection, we have 2 options

Local SAP S/4HANA database

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

Remote SAP HANA database

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

So, to upload Data with an XML template like we did earlier need to use the Local SAP S/4HANA Database option.

4. Click on Step 2 to proceed further.
5. Choose migration objects.

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

** We can select multiple Migration Objects at a time previously we can do at a time only one.

As per the requirement search for the object to which you want to upload data.

2. Migration Objects

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

Search

Available Migration Objects		
<input type="checkbox"/> Name	Predecessor	Documentation
<input type="checkbox"/> Bank		Documentation
<input type="checkbox"/> Batch unique at material and client level	5	Documentation
<input type="checkbox"/> Batch unique at plant level	5	Documentation
<input type="checkbox"/> Characteristic		Documentation
<input type="checkbox"/> Class	1	Documentation
<input type="checkbox"/> Class hierarchy	1	Documentation
<input type="checkbox"/> CO - Activity type		Documentation
<input type="checkbox"/> CO - Business process	1	Documentation
<input type="checkbox"/> CO - Cost center	2	Documentation

Selected Migration Object		
<input type="checkbox"/> Name	Predecessor	Documentation
<input type="checkbox"/> Material BOM	1	Documentation
<input type="checkbox"/> Product	2	Documentation

Ruthvik Chowdary

Review

From the 2020 version onwards Material Master object name has been changed to Product.

To know more: –

Select migration objects - click on button

To continue with next step click on “Review”

** Once you click on Review will be getting a Popup.

Predecessor objects exist for this selection. Do you want to add the predecessor objects to the list of migration objects?

The following predecessor objects will be added to the list of migration objects:

- CO – Profit center
- Supplier

As per the requirement if it's required can Choose Add or Do Not Add.

The screenshot shows the SAP S/4HANA Migration Objects screen. It has two main sections: '1. General Data' and '2. Migration Objects'.
In '1. General Data', there are fields for Name (Ruthvik Chowdary), Mass Transfer ID (O1X), Migration Approach (Migrate Data Using Staging Tables), and Database Connection (Local SAP S/4HANA Database Schema). An 'Edit' button is located at the bottom right.
In '2. Migration Objects', there is a table with columns: Name, Predecessor, Documentation, and Edit. It contains two rows: 'Material BOM' (Predecessor 1, Documentation Documentation) and 'Product' (Predecessor 2, Documentation Documentation).
A signature 'Ruthvik Chowdary' is visible in the center of the screen.
The URL bar shows <https://sais4h20bp.mydomain.com:44300/sap/bc/ui2/fip>.

6. Confirm your data selection by choosing the Create Project button
7. Once Project is created with required Migration objects select the project to proceed further.

The screenshot shows the SAP Migration Projects screen. At the top, there are search, filter, and monitoring buttons. The main area displays a list of 'Migration Projects (2)' for user 'Ruthvik Chowdary'. The table columns are: Name, Status, Created By / Created On, Migration Approach / Scenario, Connection to Source System, and Migration Objects. One project is listed: 'Ruthvik Chowdary' (Status: Not Started, Created On: 11.05.2021, 10:23:21, Migration Approach: Migrate Data Using Staging Tables, Connection to Source System: Database Connection Local, Migration Objects: 2).
Buttons at the top right include 'Create Project' (highlighted in blue), 'Cancel', 'Search', 'Monitoring', and 'Go'.

Migration project screen – more buttons

On the migration project screen, you trigger all the steps that are required to transfer the data for each migration object to the target SAP S/4HANA system.

In addition, you can quickly access additional information and tasks.

Migration Approach: Migrate Data Using Staging Tables Mass Transfer ID: O1X Database Connection: Local

Show All	Ruthvik Chowdary	Search	Messages	Actions	Download Template	↑
<input type="checkbox"/> Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
Ready for Processing						
<input type="checkbox"/>	Tables: 10	Open: 0	Errors: 0	Errors: 0		
<input checked="" type="checkbox"/> Material BOM	Instances: 0	Done: 0	Successful: 0	Successful: 0	Migration Not Started	<input type="button" value="Upload File"/>
Not Started: 0						
Not Ready for Processing						
<input type="checkbox"/>	Tables: 0	Open: 0	Errors: 0	Errors: 0		
<input checked="" type="checkbox"/> Product	Instances: 0	Done: 0	Successful: 0	Successful: 0	Migration Not Started	<input type="button" value="No Action"/>
Not Started: 0						

Buttons for quick access:

Monitoring – to view a log of all activities.

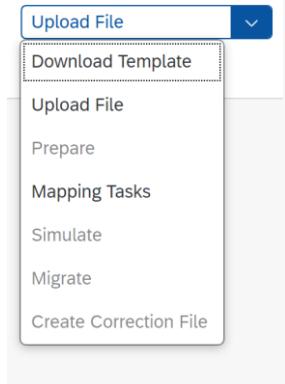
Mapping tasks – all mapping tasks for your project

Job management – adjust the number of backgrounds jobs.

Settings – general settings for example add new migration objects.

Finish project

8. Trigger Actions through Drill down list.



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

9. So, let us first download the template and fill it.

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

1	2	3
1	2	3
Field List for Migration		
2 Version S4CORE 104 - 16.08.2019 © Copyright SAP SE		
3	Sheet Name	Group Name
4	Bank Master (mandatory)	
5	Key	Ban
6		Ban
7	Address	Nan
8		Reg
9		Hou
10		City
11		Ban
12		
Introduction		Field List

1	2
1	2
Source Data for Migration	
2 Version S4CORE 104 - 16.08.2019 © Copyright SAP SE	
3	
4	S_BNKA
5	BANKS
6	BANKL
7	Key
8	Bank country key*
9	Bank
10	
Identifies the country in which the bank is located. The country key defines the rules according to which bank data, such as the bank and account number, is to be validated.	
Type: Text Length: 80	
In this field, you bank key under data from the country is. The length of decided on ban example, if bank length of bank is length 8, if bank length of bank is length	

Source Data for Migration Object: Product									
Header Data									
Key	Product Number*	Product Type*	Product Group	Industry Sector	Description*	Language Key*	Base Unit of Measure (ISO format)*	Change Number	Inc docum addition
Key uniquely identifying the product. Type: Text Length: 80	Key that assigns the product to a group of products such as a product; finished product or trading goods. Type: Text Length: 80	Key that you use to group together several products or services with the same attributes, and to assign them to a particular product group. Type: Text Length: 80	Type: Text Length: 80	Type: Text Length: 40	Text that describes the product in more detail. Note: You can maintain additional descriptions (for languages other than those provided on the 'Basic Data' sheet) on sheet 'Additional Description'. Type: Text Length: 40	Please provide the language for the product description. Type: Text Length: 80	Unit of measure in which stocks of the product are managed. The system converts all the quantities you enter in other units of measure (alternative units of measure) to the base unit of measure. Note: define your alternative units of measure in sheet 'Alternative Unit of Measure'. Type: Text Length: 80		
RUTHVIK CHOWDARY	FERT		M	Ruthvik Chowdary	EN	EA			

⊕

10. Once the template is filled with required information Upload the same.

Product [Download Template](#) [Download Metadata](#) [Display Documentation](#)

Migrate Data Using Staging Tables

Project: Ruthvik Chowdary Database Connection: Local Instances: 1 Migration Progress: Migration Not Started

Tables [Files \(1\)](#)

(1) You can upload files and view any uploaded files. You can transfer the content of a file to the staging tables so that data can be transferred to SAP S/4HANA. If data from a file has been transferred to the staging tables, then this data will not be deleted from the staging tables if you delete the file. [X](#)

Show All Actions [Upload](#)

Ruthvik Chowdary

Finished

 **Product LTMC.xml**
Uploaded By: RUTHVIK - Uploaded On: Tue May 11 2021 10:40:01 GMT+0530 (India Standard Time) - File Size: 699.6 KiB - Instances: 1
Status: Data Successfully Transferred to Staging Tables · Show Messages [X](#)

11. Once the XML file is uploaded System will validate the entries,

12. Click back.

The screenshot shows the SAP Migration Projects interface. At the top, there's a search bar with 'Search' and a magnifying glass icon, followed by dropdown menus for 'Name', 'Status' (set to 'All'), 'Created By', 'Migration Approach' (set to 'All'), and 'Connection to Source System'. To the right are 'Monitoring' and 'Go' buttons. Below the header, a user 'Ruthvik Chowdary' is selected. A 'Migration Projects (2)' table is displayed, with columns for Name, Status, Created By / Created On, Migration Approach / Scenario, Connection to Source System, and Migration Objects. One project row is visible: 'Ruthvik Chowdary' (Not Started, created on 11.05.2021, 10:23:21, using 'Migrate Data Using Staging Tables' approach, connected to 'Database Connection Local', with 2 migration objects).

Earlier till 1909 version for any migration object, we need follow below steps

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

But from the 2020 Version, things are simpler and easy to do.

- A. Upload File**
- B. Mapping Tasks**
- C. Simulate**
- D. Migrate**

13. Now click on Mapping Tasks

The screenshot shows the 'Mapping Tasks' screen. At the top, it displays 'Ruthvik Chowdary' and 'Running Activities 0'. To the right are links for 'Monitoring', 'Mapping Tasks' (which is active), 'Job Management', 'Settings', and 'Finish Project'. Below this, it shows 'Migration Approach: Migrate Data Using Staging Tables', 'Mass Transfer ID: O1X', and 'Database Connection: Local'. A table lists mapping tasks for a 'Product' migration object. The table has columns for 'Migration Object' (checkbox), 'Data' (Tables: 16), 'Mapping Tasks' (Open: 3), 'Simulation' (Errors: 0), 'Migration' (Errors: 0), 'Migration Progress' (Migration Not Started), and 'Action' (button labeled 'Mapping Tasks').

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

13 Mapping Tasks | 0 To be Confirmed | 13 Confirmed

Ruthvik Chowdary

⚠ The displayed data is from 5/11/2021 at 10:46:37 AM and may be out of date. [Refresh display](#)

<input type="text" value="Search"/> 🔍 Confirm Download Values ↑ [≡]			
Mapping Task	Status	Type	Values
Fixed value for Controlling Area	Confirmed	Fixed Value	1 >
Mapping of ISO Code for Unit of Measurement	Confirmed	Value Mapping	1 >
Mapping of Industry Sector	Confirmed	Value Mapping	1 >
Mapping of Language Key	Confirmed	Value Mapping	2 >
Mapping of Lot Sizing Procedure	Confirmed	Value Mapping	1 >
Mapping of MRP Controller	Confirmed	Value Mapping	1 >
Mapping of MRP Type	Confirmed	Value Mapping	1 >
Mapping of Plant	Confirmed	Value Mapping	1 >
Mapping of Product	Confirmed	Value Mapping	1 >
Mapping of Product Type	Confirmed	Value Mapping	1 >
Mapping of Storage Location	Confirmed	Value Mapping	1 >
Product internal or external Numbering	Confirmed	Control Parameter	1 >
Use Product ID for Integration with external Systems	Confirmed	Control Parameter	1 >

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

Mapping Ta... Monitoring ...

Migration Project: Ruthvik

Mapping Tasks (13) More ▾

Search		↑	[≡]
Mapping Task	Status		
Fixed value for Controlling Area	Confirmed	>	
Type: Fixed Value			
Values: 1			
Mapping of ISO Code for Unit of Measurement	Confirmed	>	
Type: Value Mapping			
Values: 1			
Mapping of Industry Sector	Confirmed	>	
Type: Value Mapping			
Values: 1			
Mapping of Language Key	Confirmed	>	
Type: Value Mapping			
Values: 2			
Mapping of Lot Sizing Procedure	Confirmed	>	

Mapping of MRP Type

Status: **Confirmed**
Type: Value Mapping
Used in: [Migration Objects](#)

Values Technical Information

Values (1)

Search				Confirm	↑	[≡]
Source Value	S/4HANA Target Value	Status	Action			
<input type="checkbox"/> PD	<input type="text" value="PD"/>	Confirmed	Confirm			

Ruthvik Chowdary

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

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

The screenshot shows the SAP Fiori Mapping Tasks interface. At the top right, there are buttons for **Monitoring**, **Download Mapping Templates** (which is highlighted with a yellow box), and **Upload Values**. A callout points from the text above to this button. Below it is a list of selected mapping tasks, with checkboxes next to them. A second callout points from the text "Select mapping task – click ‘Download Mapping Template’." to the list. A third callout points from the text "You can use this template files instead of specifying the values manually." to the list. At the bottom left, there is a file browser window showing a folder structure with several XML files. A fourth callout points from the text "If files are filled, you can upload the values by clicking on ‘Upload Values’." to this browser window.

Handling of insert/delete mapping value

The displayed data is from 1/25/2021 at 6:19:47 PM and may be out of date. Refresh display

Upload Mapping Values

Upload Files Additional Settings

Additional Settings

Here, you specify options for uploading the mapping values to your project. To start the upload process for a mapping task, choose the “Upload Values” button. You can view the status of the upload in the monitoring screen. If a mapping task was not uploaded successfully, it will be visible here again.

Mapping Tasks(1)

Type	Value Mapping	Options for Confirming Values	Options for Loading Values	Number of Files
Mapping Task	None	None	None	1
Mapping of Bank Key	None	None	None	1

Delete [x] [i]

Download Values

The screenshot shows the SAP Fiori Mapping Tasks interface. At the top right, there are buttons for **Monitoring**, **Download Mapping Templates**, and **Upload Values**. A callout points from the text "Upload Mapping Values" to the "Upload Values" button. Below it is a section titled "Upload Mapping Values" with tabs for "Upload Files" and "Additional Settings". Under "Additional Settings", there is a detailed description of the upload process. A callout points from the text "Here, you specify options for uploading the mapping values to your project." to the "Additional Settings" section. Below this is a table showing mapping tasks with columns for Type, Value Mapping, Options for Confirming Values, Options for Loading Values, and Number of Files. A callout points from the text "Mapping Tasks(1)" to this table. At the bottom right, there is a "Download Values" button.



Background & Tip

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

Setting Details

Name: Mapping of Company Code
ID: MAP_BUKRS

View: All Append Row Insert Row Delete Row

Status	Source Value	SAP/HANA Target Value
<input checked="" type="checkbox"/>	1010	1010
<input type="checkbox"/>	1710	1710

The screenshot shows a Fiori app's "Setting Details" screen. It displays a table with two rows. The first row has a checked checkbox in the "Status" column, while the second row does not. The "Source Value" and "SAP/HANA Target Value" columns both show the value 1010 for the first row and 1710 for the second. At the top, there are buttons for "Append Row", "Insert Row", and "Delete Row". A callout points from the text "In Fiori App this is not possible right now." to these buttons.

- In Fiori App this is not possible right now.

Procedure:

- Download values
- Edit in XML file
- Upload again - Check additional settings



Details in [KBA 3003068](#)

Once Mapping tasks are completed and all the values are mapped click back

14. Click on Simulate.

Ruthvik Chowdary Running Activities 0 Ruthvik Chowdary Monitoring Mapping Tasks Job Management Settings Finish Project

Migration Approach: Migrate Data Using Staging Tables Mass Transfer ID: O1X Database Connection: Local

Migration Object	Data	Migration Tasks	Simulation	Migration	Migration Progress	Action
Product	Tables: 16 Instances: 1	Open: 0 Done: 3	Errors: 0 Successful: 0	Errors: 0 Successful: 0	Migration Not Started Not Started: 1	Simulate

Show All Search Messages Actions Download Template

The screenshot shows the SAP Fiori Job Management interface. At the top, there is a user profile and navigation links. Below that, migration details are shown: "Migration Approach: Migrate Data Using Staging Tables", "Mass Transfer ID: O1X", and "Database Connection: Local". The main area is a table with columns for Migration Object, Data, Migration Tasks, Simulation, Migration, and Action. A "Product" row is selected, showing "Tables: 16" and "Instances: 1" under Data, and "Open: 0" and "Done: 3" under Migration Tasks. The "Action" column contains a "Simulate" button. Above the table, there are buttons for "Show All", "Search", "Messages", "Actions", and "Download Template". A callout points from the text "Once you click on the simulate system will simulate it in the background if you wanted to see click on Running Activates to see the progress." to the "Simulate" button.

15. Once you click on the simulate system will simulate it in the background if you wanted to see click on Running Activates to see the progress.

Ruthvik Chowdary | Running Activities 1

Migration Approach: Migrate Data Using Staging Tables

Activity	Object Type/Name	Started By/On	Active Jobs	Additional Information	Options
Simulate data	Migration Object	RUTHVIK		Finished On: 11.05.2021, 11:13:43	Show Messages
Completed	Product	11.05.2021, 11:12:15		Runtime: 2 Minutes	

Once the simulation is completed click back

16. Now click on Migrate.

Once you click on Migrate system will run it in the background if you wanted to see click on Running Activates to see the progress.

Activity	Object Type/Name	Started By/On	Active Jobs	Additional Information	Options
Migrate data	Migration Object	RUTHVIK	1 / 1	0%	
Started	Product	11.05.2021, 11:17:10		0 of 1 processed	No Action

Once completed click back.

Ruthvik Chowdary | Running Activities 0 | Activities with Error 1

Monitoring Mapping Tasks Job Management Settings Finish Project

Migration Approach: Migrate Data Using Staging Tables Mass Transfer ID: O1X Database Connection: Local

Migration Object	Data	Mapping Tasks	Simulation	Migration	Migration Progress	Action
Product	Tables: 16	Open: 0	Errors: 0	Errors: 0	Successful: 1	100%
	Instances: 1	Done: 13		Successful: 1		Not Started: 0
						Upload File

Now Data gets created into the system, so let's see material which we uploaded

Basic data 1 Basic data 2 Ext. SPP Basic Data **MRP 1** MRP 2 MRP 3 MRP 4 Advanced Planning

Material: RUTHVIK CHOWDARY Descr.: Ruthvik Chowdary Plant: 1710 Plant 1 US

General Data

Base Unit of Measure: EA	each	MRP Group:	<input type="text"/>
Purchasing Group:	<input type="text"/>	ABC Indicator:	<input type="text"/>
Plant-Sp.Matl Status:	<input type="checkbox"/>	Valid From:	<input type="text"/>

MRP procedure

MRP Type: PD	Forecast Consumption, No Planning Time Fence
Reorder Point: 0	Planning time fence: 0
Planning cycle:	MRP Controller: 001

Lot size data

Lot Sizing Procedure: EX	Lot-for-lot order quantity
Minimum Lot Size: 0	Maximum Lot Size: 0
	Maximum Stock Level: 0

In this way, we can upload data by using Migrate Your data App.

In next Blog will discuss about changes in the LTMOM – Migration Object Modeler

How to Customize Migration Cockpit (LTMOM)

8158,389

Dear Friends,

Welcome to another interesting Blog.

In this blog will try to understand the use of **LTMOM (Migration Object Modeler)**

In order to upload Data SAP has provided a tool which will save time and make a smooth transition in LTMC.

By using LTMC we can upload master data and open transactional data during Implementations such as Greenfield and Brownfield or even for day-to-day business activities.

SAP S/4HANA Migration Cockpit - migration object modeler



Key Benefits

- Design functionality to easily integrate custom objects and enhancements into the migration project
- Integration of newly created objects:
 - Custom objects
 - SAP standard objects that are not yet in the scope of the SAP S/4HANA Migration Cockpit
- Customer-specific enhancements (e.g. add new fields) to SAP standard objects delivered with the SAP S/4HANA migration cockpit
- Data source:
 - Easily adjust input structure (file/staging)
 - Add or change migration object modeler's selection criteria (direct transfer)
- Use Standard APIs or code your function module
- Map structure and fields
- Available for SAP S/4HANA



Here are links to know more about LTMC if you wanted to know more.

[LTMC Master Data \(BP – Supplier\) Step by Step Process | SAP Blogs](#)

[LTMC for Master Data Step by Step Process | SAP Blogs](#)

So with an example, I would like to explain the process of LTMOM.

Let's say a business wants a new field to add in the material master like any "Z" Field. But in LTMC only standard fields of Material master will be available, So LTMOM comes to rescue you to address your business requirements to make a customized upload function.

Below is the Template of LTMC for uploading material master, So business wants a new field to be adopted after "Batch management Requirement indicator" to address this requirement

Source Data for Migration Object: Material								
Version S4CORE 104 - 10.02.2021 © Copyright SAP SE. All rights reserved.								
Key	Mandatory					Administrative Data		
	Material Number*	Language Key*	Material description*	Industry sector*	Material type*	Material Views	Multiple View Data	
Key uniquely identifying the material. Type: Text Length: 80	Please provide the language for the material description. Type: Text Length: 80	Text that describes the material in more detail. Note: You can manage additional descriptive languages other than those provided on the 'Basic Data' sheet on sheet Material Description. Type: Text Length: 40	Type: Text Length: 80	Key that assigns the material to a group of materials such as raw materials, finished product or trading goods. Type: Text Length: 80	Assign here your definition 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	Level of Explicitness for Serial Number Level on which the serial number must be unique. Type: Text Length: 80	

Steps to make changes to LTMC Template

1. Open LTMOM Transaction.
2. Give the project name in which you want to make changes and select the Migration object

Display Project RUTHVIK

Advanced Search (All Objects)

Project: RUTHVIK

Name	Description
ZSIN_MIG_001	RUTHVIK
Subprojects	
ZSIN_MIG_001	RUTHVIK
Migration Objects	
Z_BOM_001	Material BOM
Z_CUSTOMER_2_001	Customer
Z_MATERIAL_001	Material
Z_ROUTING_001	Routing
Z_VENDOR_2_001	Supplier
Fixed Values	
Rules	
Translation Objects	
Variables	

3. Once you select the required project and object which need to be customized, will be able to see in the source structure of exact Template sheet wise structure.

Key Field	Name	Data Type	Length	Decimal Places	Amount Field
<input checked="" type="checkbox"/>	MATNR	CHAR	80		
<input type="checkbox"/>	SPRAS	CHAR	80		
<input type="checkbox"/>	MAKTX	CHAR	40		
<input type="checkbox"/>	MBRSH	CHAR	80		
<input type="checkbox"/>	MTART	CHAR	80		
<input type="checkbox"/>	GROUP	CHAR	80		

4. Select under which structure changes required.

5. Select the line item after to which new field to be placed and click on insert field.

Key Field	Name	Data Type	Length	Decimal Places	Amount Field	Column Header
<input checked="" type="checkbox"/>	MATNR	CHAR	80		<input type="checkbox"/>	Material Number
<input type="checkbox"/>	SPRAS	CHAR	80		<input type="checkbox"/>	Language Key
<input type="checkbox"/>	MAKTX	CHAR	40		<input type="checkbox"/>	Material description
<input type="checkbox"/>	MBRSH	CHAR	80		<input type="checkbox"/>	Industry sector
<input type="checkbox"/>	MTART	CHAR	80		<input type="checkbox"/>	Material type
<input type="checkbox"/>	GROUP	CHAR	80		<input type="checkbox"/>	Material Views
<input type="checkbox"/>	XCHPF	CHAR	1		<input type="checkbox"/>	Batch management requirement in
<input type="checkbox"/>	SERLV	CHAR	80		<input type="checkbox"/>	Level of Explicitness for Serial Num
<input type="checkbox"/>	MSTAE	CHAR	80		<input type="checkbox"/>	X-Plant matl status
<input type="checkbox"/>	MSTDE	DATS	8		<input type="checkbox"/>	Valid from Date for X-Plant matl st

6. Maintain the Z field which you have created with the following details,

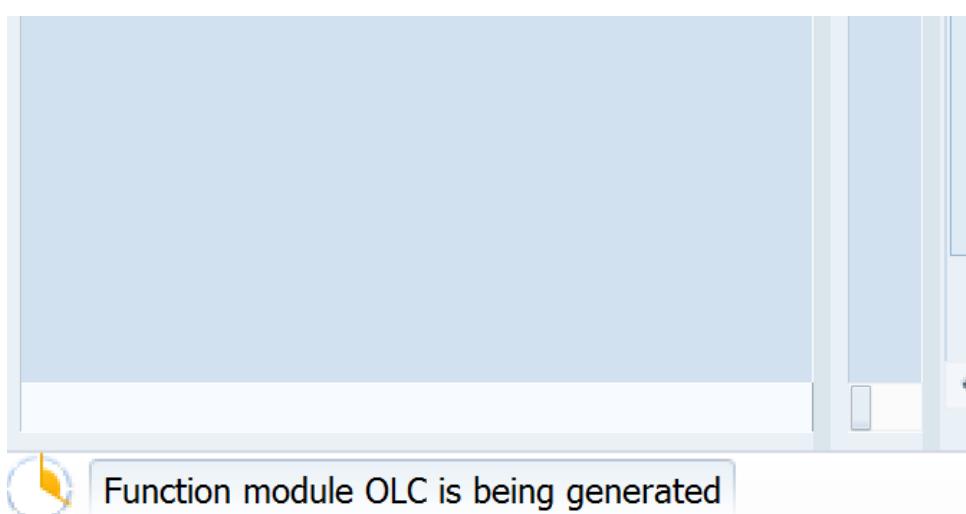
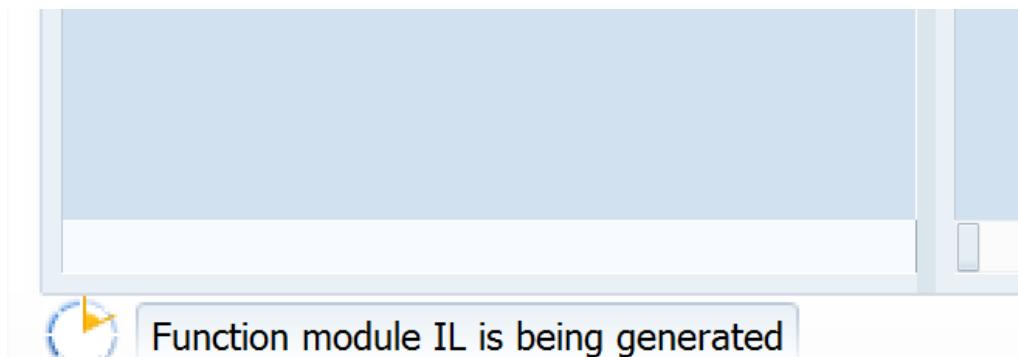
1. Data Type
2. Length
3. Decimal places
4. Column header

5. Group text

Once “Z” field has been added custom field indicator will be enabled.

Fields of Basic Data										
Key	Field Name	Data Type	Length	Decimal Places	Amount	Column Header	Group Text Key	Check Table	Tooltip	Custom Field
<input checked="" type="checkbox"/>	MATNR	CHAR	80		<input type="checkbox"/>	Material Number		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	SPRAS	CHAR	80		<input type="checkbox"/>	Language Key	Mandatory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	MAKTX	CHAR	40		<input type="checkbox"/>	Material description	Mandatory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	MBRSH	CHAR	80		<input type="checkbox"/>	Industry sector	Mandatory	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	MTART	CHAR	80		<input type="checkbox"/>	Material type	Mandatory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	GROUP	CHAR	80		<input type="checkbox"/>	Material Views	Administrative Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	ZETAR	QUAN	5	2	<input type="checkbox"/>	Ruthvik Chowdary	Ruthvik Z Field	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	XCHPF	CHAR	1		<input type="checkbox"/>	Batch management requiremen...	Multiple View Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	SERLV	CHAR	80		<input type="checkbox"/>	Level of Explicitness for Serial N...	Multiple View Data	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	MSTAE	CHAR	80		<input type="checkbox"/>	V-Plant matl status	Basic 1 - General Data	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

7. Once the required changes have been made. Save the changes and generate the LTMOM to get the updated Template.
8. Changes made to the object will overwrite the existing/standard LTMC template and generate a new updated template where you have added “Z” Fields,
9. While the new template is generating you can see below messages



10. Now open LTMC and go to project and download template.

1	2	3	4	5	6	7	8	11
Field List for Migration Object: Material								
Version S4CORE 104 - 10.02.2021 © Copyright SAP SE. All rights reserved.								
Sheet Name	Group Name	Field Description	Importance	Type	Length	Decimal		
Basic Data (mandatory)								
Ruthvik Chowdary	Mandatory	Key	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	Material Views		Text	80			
Ruthvik Chowdary	Multiple View Data	Ruthvik Chowdary		Text	14			
		Batch management requirement		Text	1			
		Level of Explicitness for Serial		Text	80			
	Basic 1 - General Data	X-Plant matl status		Text	80			
		Valid from Date for X-Plant matl		Date				
		Material Group		Text	80			

11. You can see new fields which you added.

Key points.

1. Changes which have been made are only at project level it will not apply to total LTMC Object.
2. While making changes in LTMOM don't open Project in LTMC which will cause locking
3. Once changes are completed and LTMOM generated refresh LTMC or reopen the project to get an updated template.
4. By using the same method we can add fields or remove fields

Please share, Like and Comment anything else you want to share or add points.