How-To Guide: DT Import (DIF) Doc for IS-U Industry Solution

Applies to

ISU Objects by Prometheus Group

Summary

MDG for EAM ISU include standard implementations of the Data Importing Framework (DIF) that read the data from file which captured from other system. The data in the file can be saved to “Active Area” directly or “Staging Area” based on the options chosen in the Import Framework screen. The standard implementations support key mapping and value mapping.

This guide describes the necessary configuration steps for implementing DIF. This guide explains the Data Importing Framework for ISU objects. Same steps can be followed for other EAM ISU objects.

You can perform most configuration tasks in Customizing for Master Data Governance under SAP Reference IMG -> Cross Application Components à Processes and Tools for Enterprise Applications à Master Data Governance.

Additionally, you can use the following transactions:

· MDGIMG – IMG Master Data Governance

· FILE -- Logical File Path Definition

· IDMIMG – IMG Key Mapping

Company: Prometheus Group

Version: 1.0

Table of Contents

Introduction

Data transfer represents a collection of functions and features that you can use to move master data and mapping information between systems and clients. Examples of these systems include existing ERP systems and your Master Data Governance hub system.

Steps for ALE Scenario Configuration

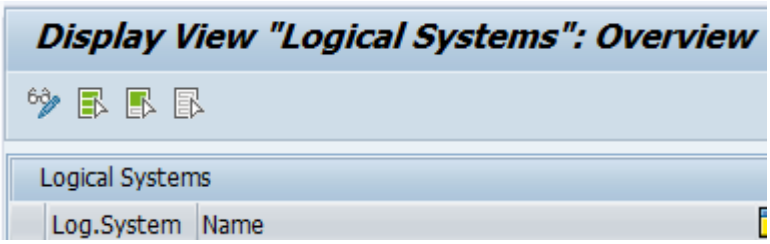
Note: The following configuration is required only when you want to generate XML file from IDoc.

This guide uses the source system an as sample data. When you configure this scenario for your landscape, ensure you replace system ID and client ID with your own system data.

Define Logical Systems

Use the following to define a logical system:

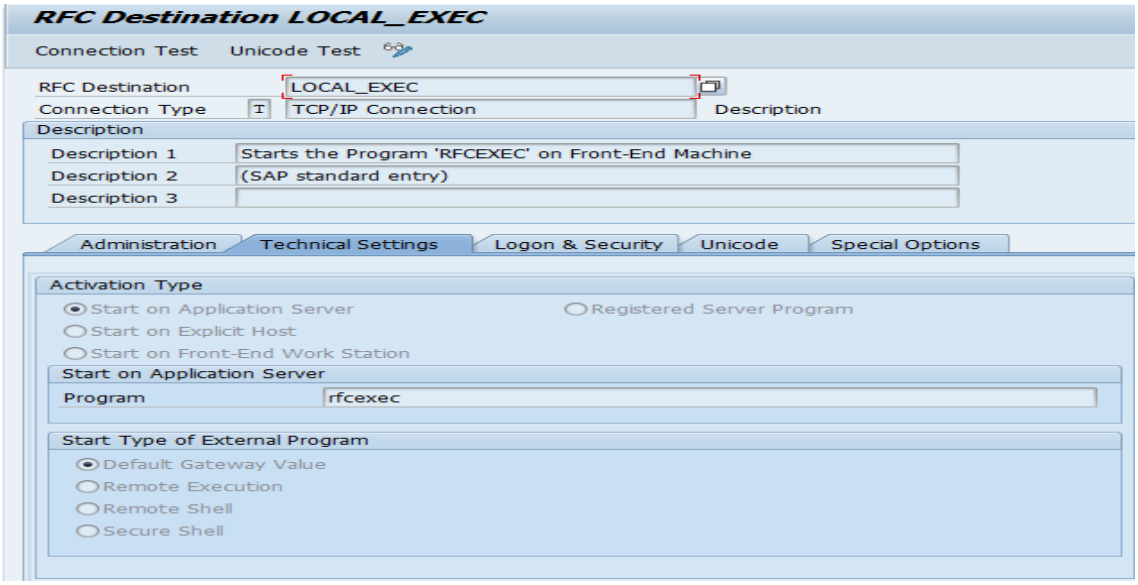
1. Enter transaction code (t-code) BD54.
2. Click New entries to create a Logical System
3. Enter a name for the Logical System and a description.



Define an RFC Connection

Use the following steps to define the RFC connection:

1. Run the t-code SALE. Navigate to tree menu Communication > Create RFC Connections or Run the t-code SM59 to create an RFC Connection.
2. Create a RFC connection using Connection Type T (Start External Program Using TCP/IP) into the same client:



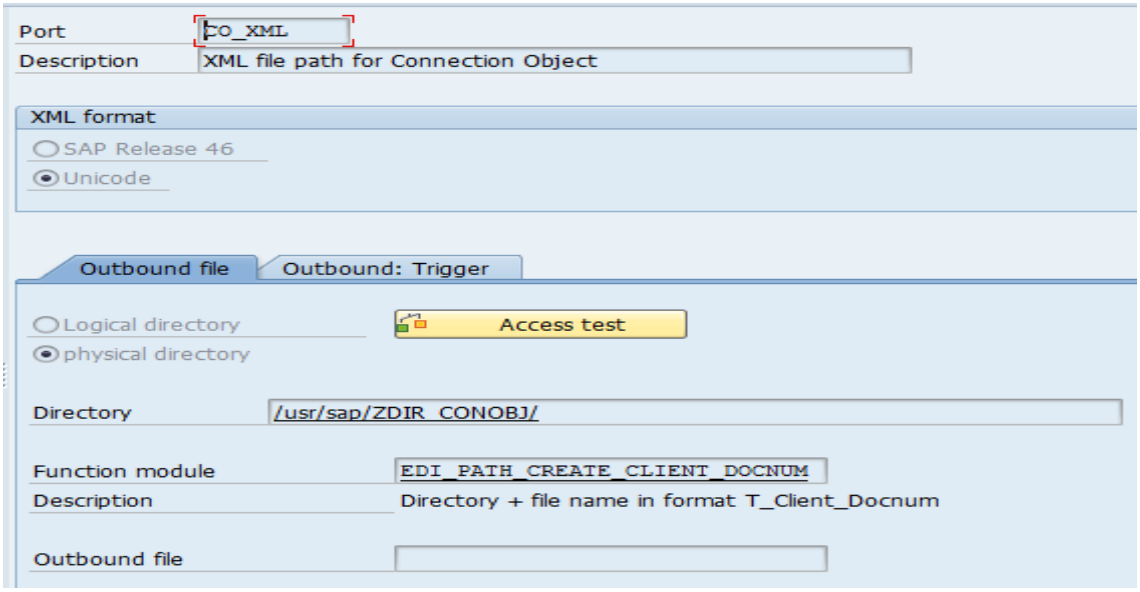
Define an XML Port

Use the following steps to define an XML Port:

- Run the t-code WE21 > Create an XML File type port.

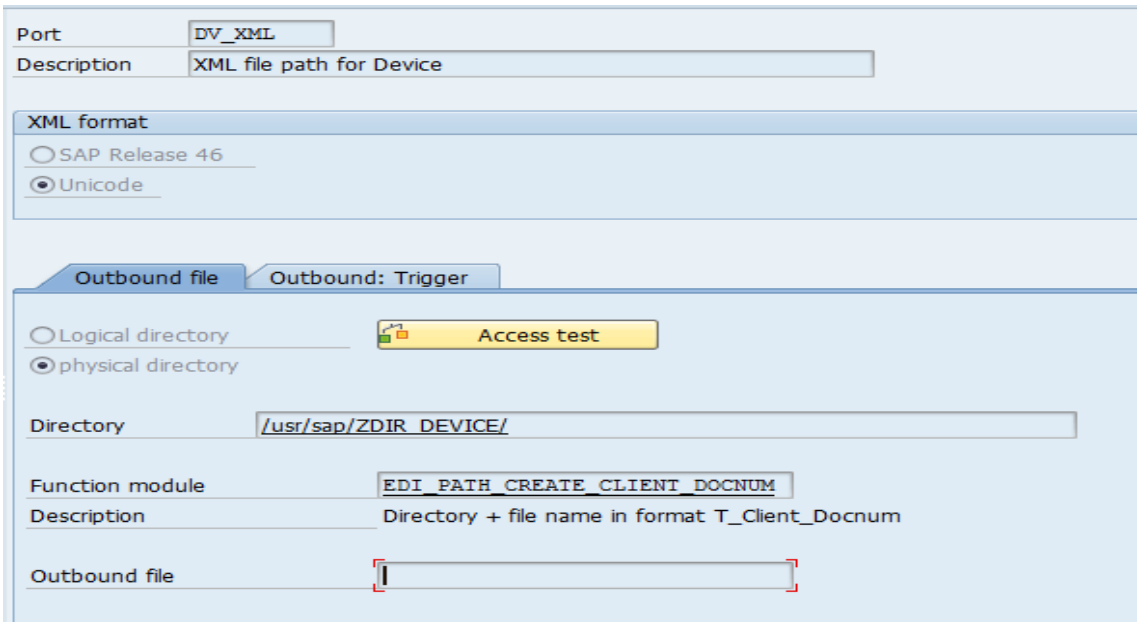
ISU – Connection Object

Create the single XML file type port for Connection Object.



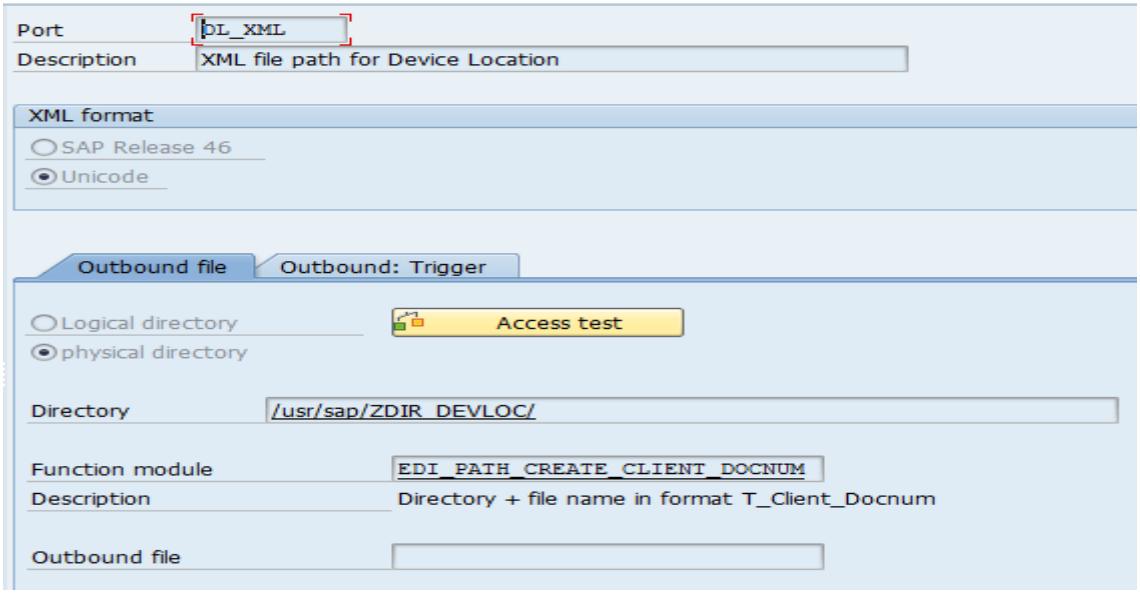
ISU – Device

Create the single XML file type port for Device.



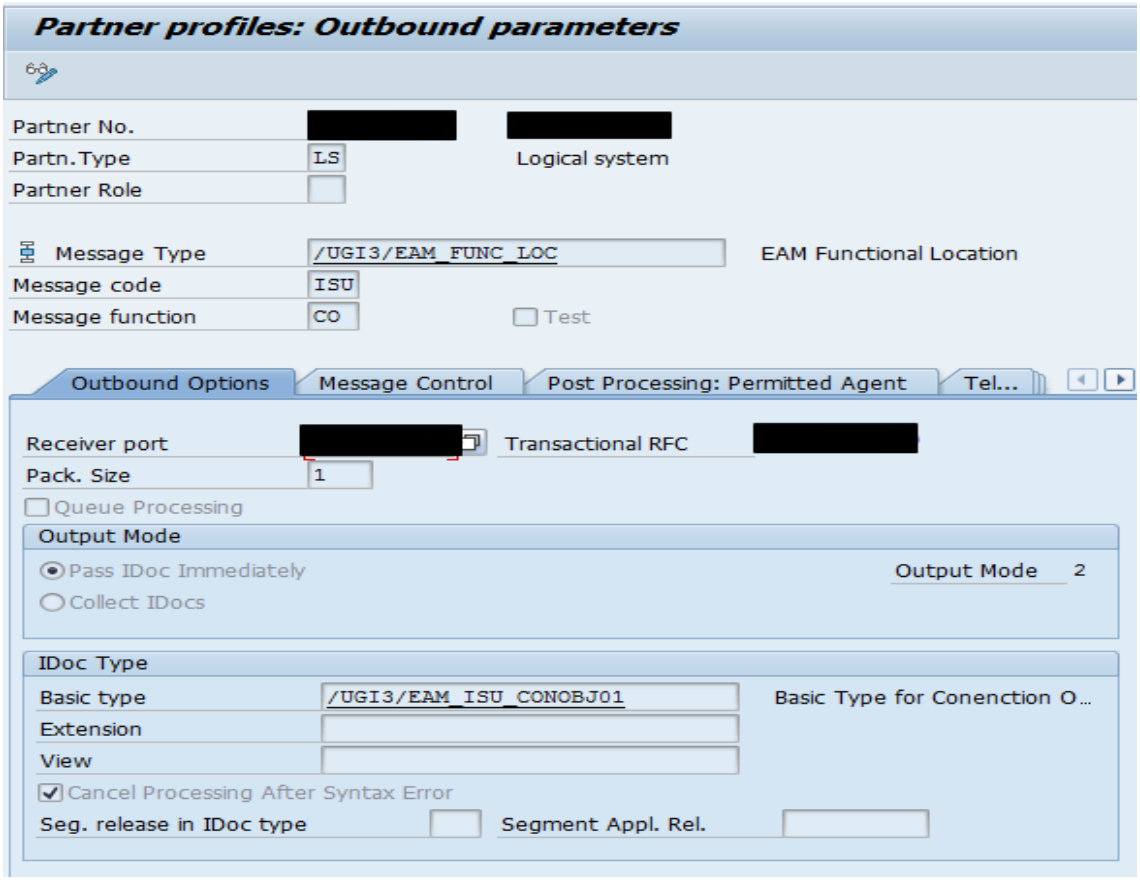
ISU – Device Location

Create the single XML file type port for Device Location.



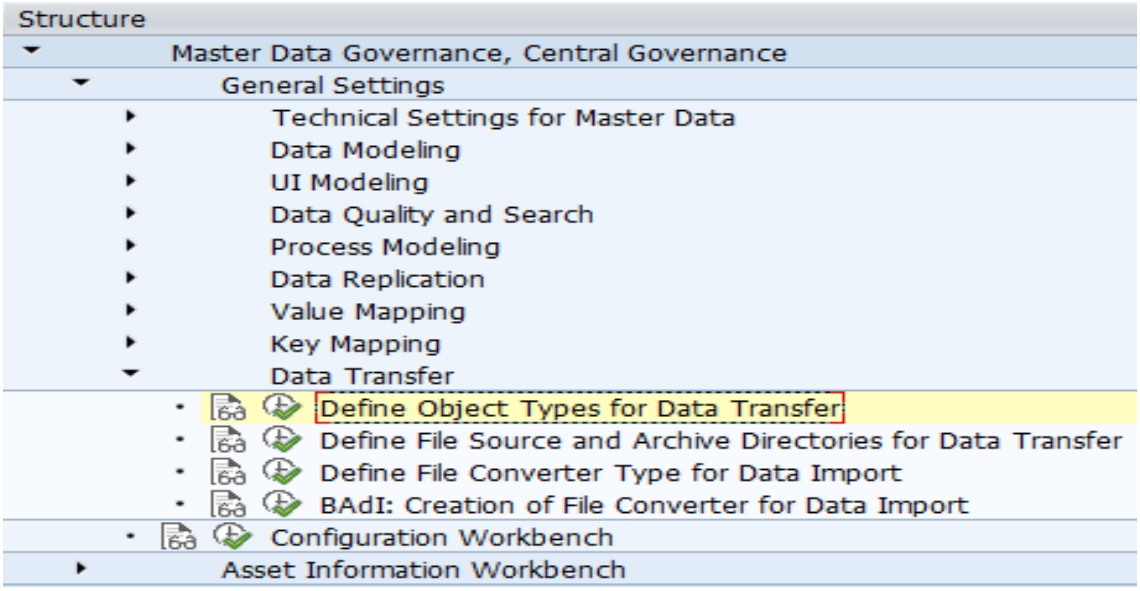
Define Partner Profiles

Run the t-code WE20 > Locate the MDG Target System under tree node Partner Profile LS > Maintain the settings for message type /UGI3/EAM ISU_FUNC_LOC under outbound parameters.

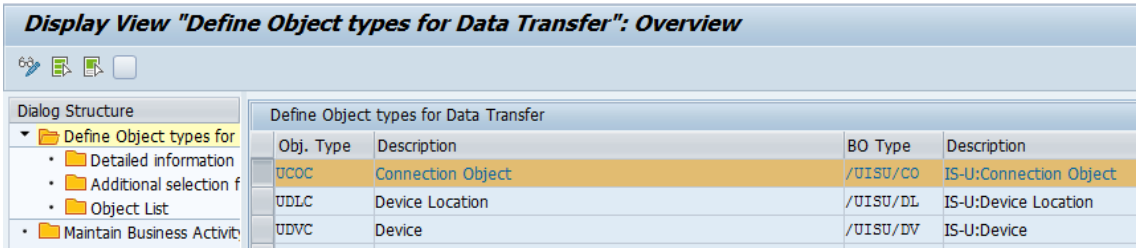


Define Object Types

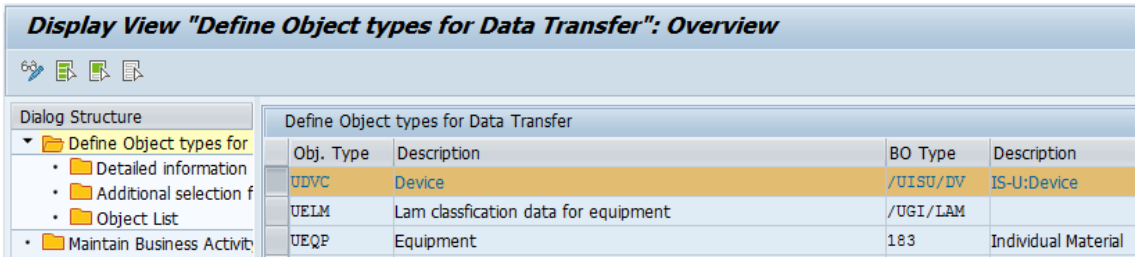
Go to MDGIMG > Master Data Governance > General Settings > Data Transfer > Select Node “Define Object Types for Data Transfer”.



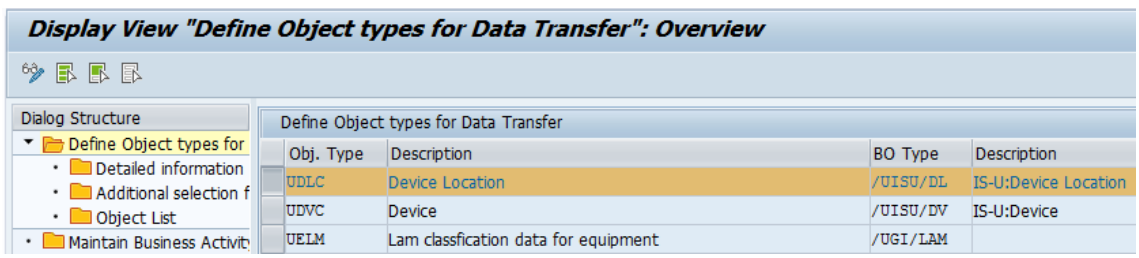
ISU – Connection Object



ISU – Device



ISU – Device Location

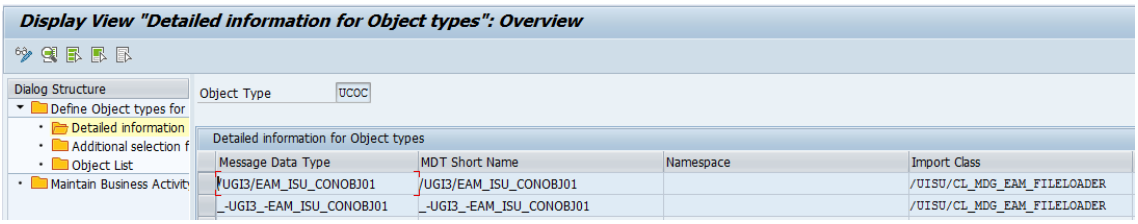


Steps to Set the DIF

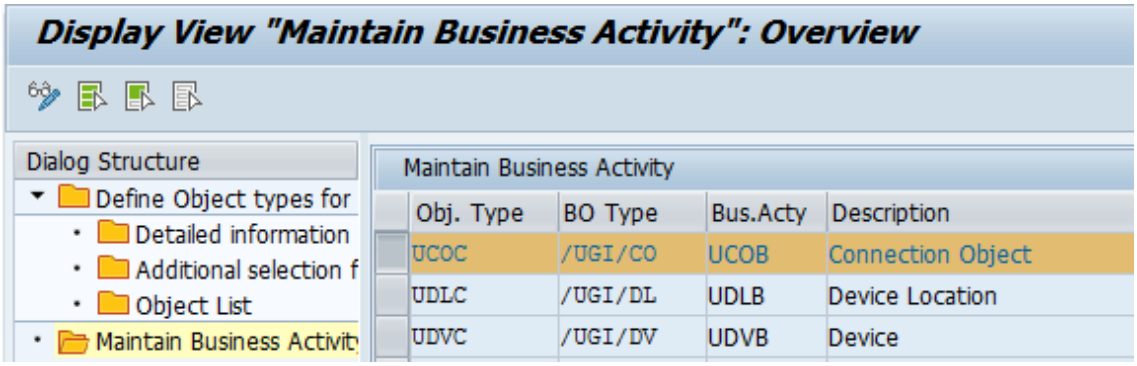
ISU – Connection Object

Use the following steps to set the Data Import Framework.

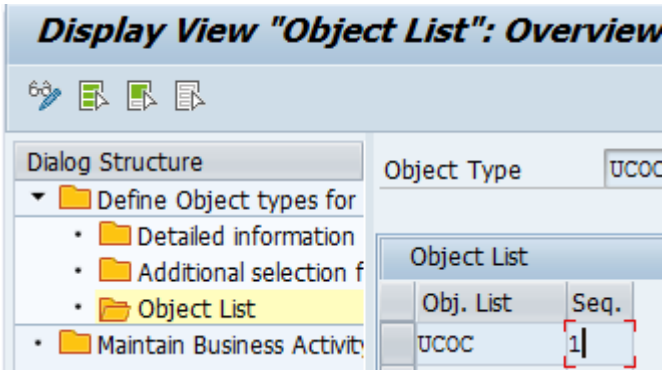
1. Click on sub-node “Detailed information for Object Types”
2. Provide the message types to be recognized in the file while importing the data.



3. Click on the sub-node “Maintain Business Activity”. This refers to the CR type to be created while importing the data to staging area.



4. Maintain Object List for Data Import.



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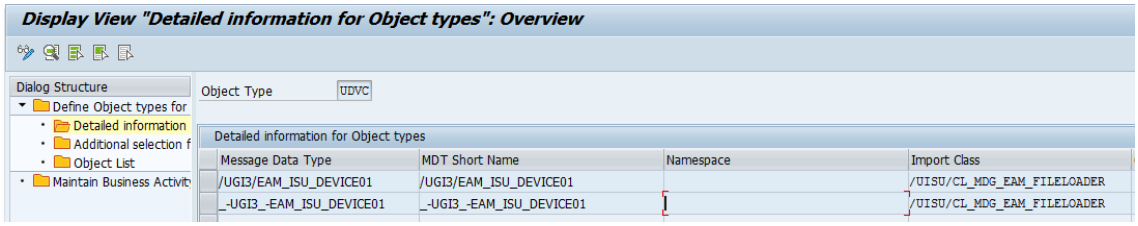

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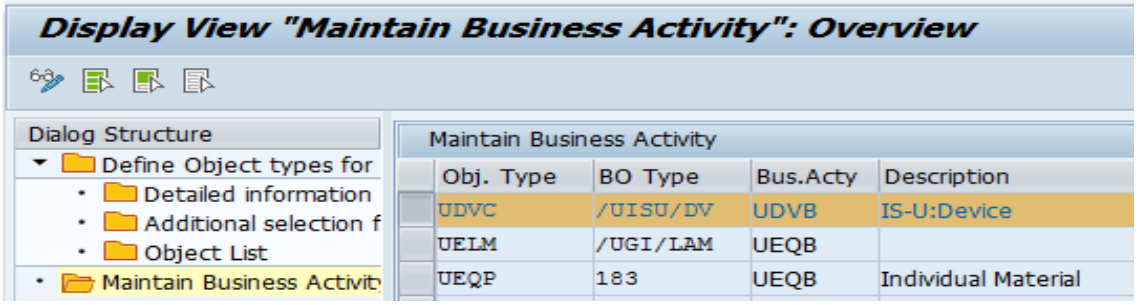

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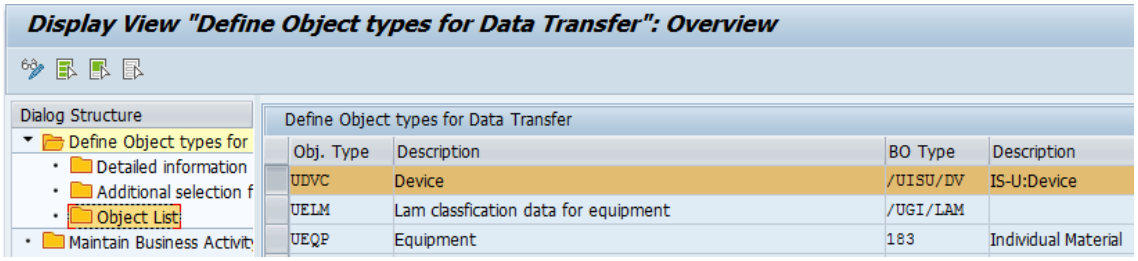

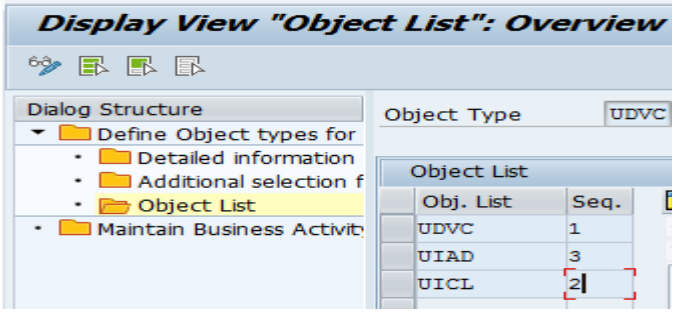

ISU – Device Location

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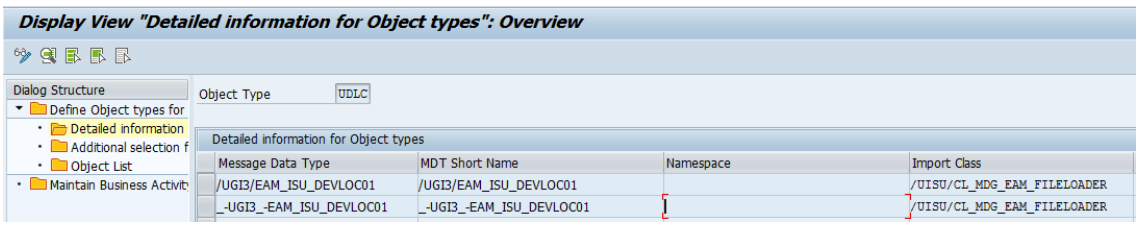

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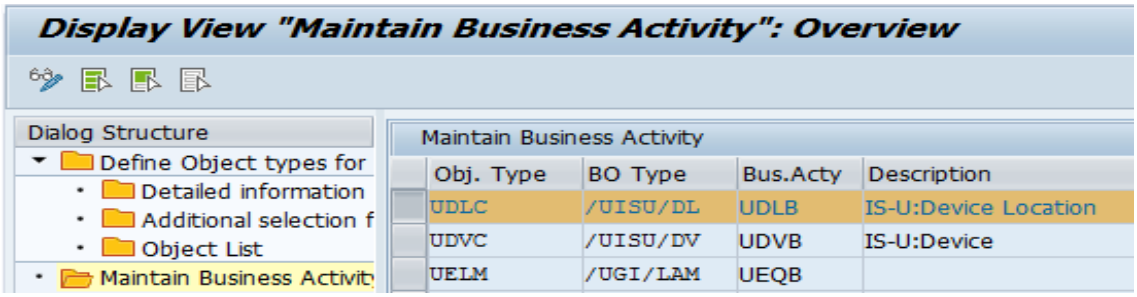

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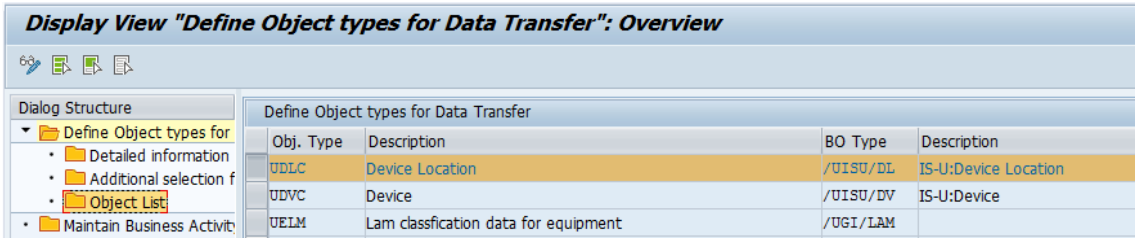
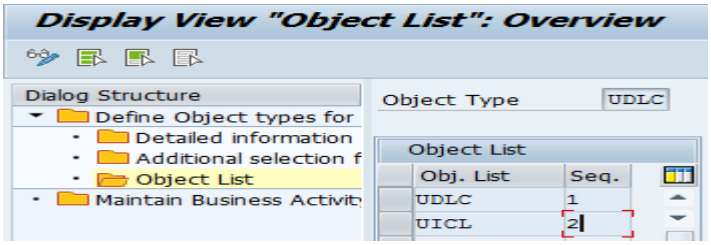




File Source and Archive Directories

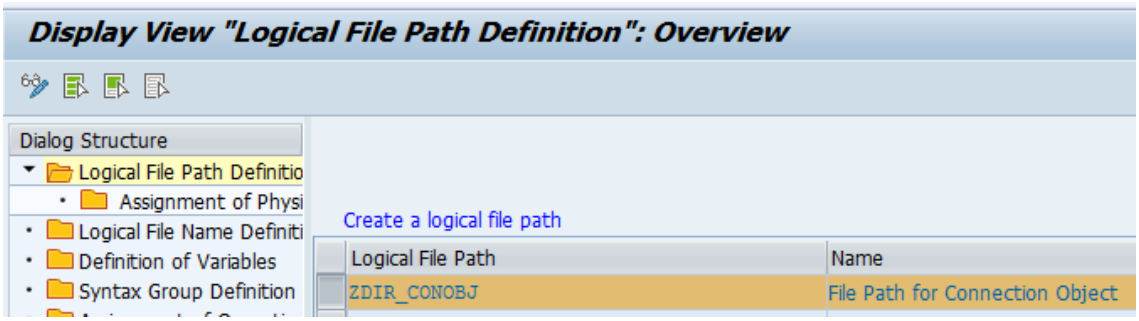
To set up the data import, source and archive logical directories in the MDG Data Transfer Customizing activity needs to be defined.

The logical file name and the logical path should be maintained to get an appropriate physical file name and physical path name.

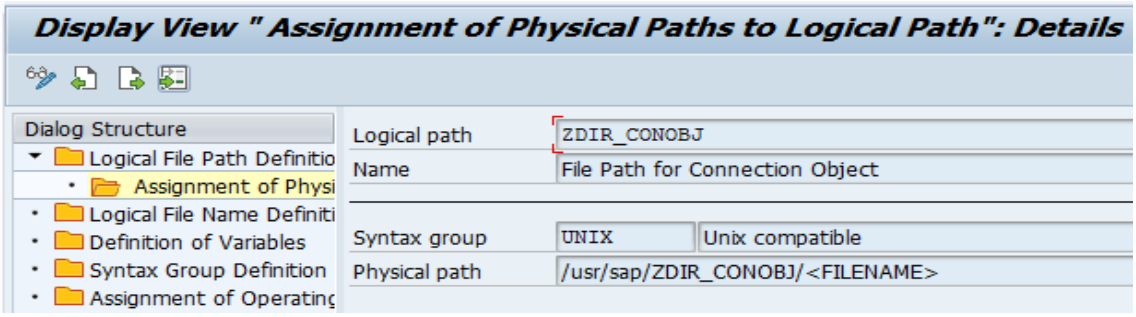
ISU – Connection Object

Use the following steps to define file source and archive directories:

1. Define a Logical Path Name: First determine the target directory in which you want to create the archive files of a certain archiving object. The physical name of this directory is stored in a logical path name.
2. Define a Logical File Name: After creating the logical path name, you need to create a logical file name.
3. Assign a Logical File Name to the archiving object.
   Note: Contact BASIS for directory paths creation.
4. To assign directories as sources or archives, the physical directory paths must be created in the file system initially.
5. Use the t-code FILE to map them to logical names.
   Run the t-code AL11 to verify the directory path creation:



6. Run the t-code FILE to map directory path to logical names:
7. Assign physical path for ZDIR_CONOBJ:



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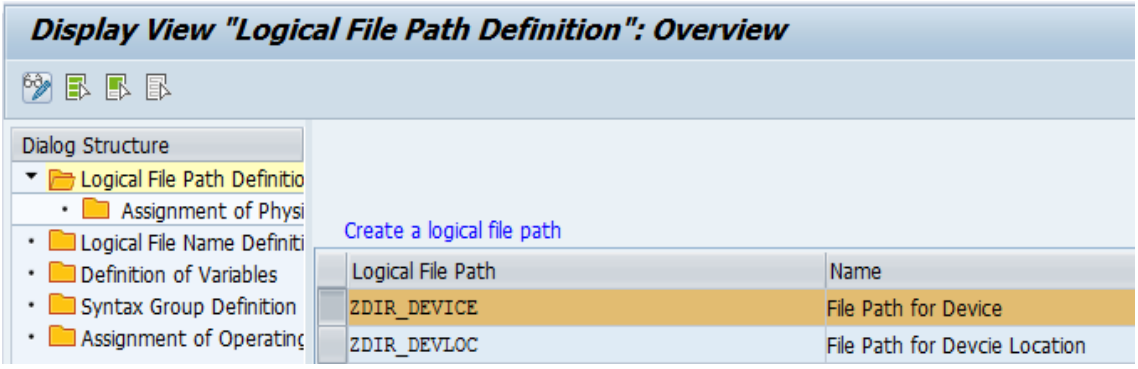
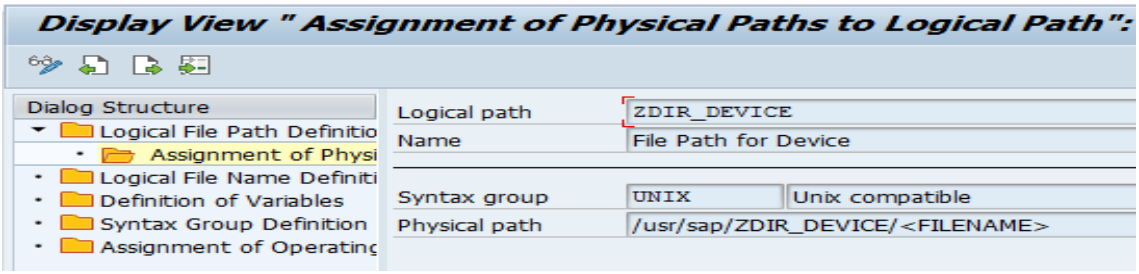


7. Assign physical path for ZDIR_DEVICE:



ISU – Device Location

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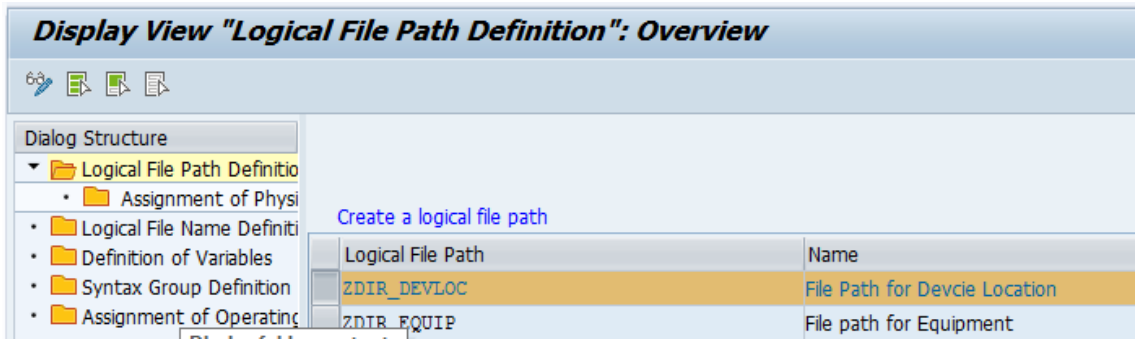
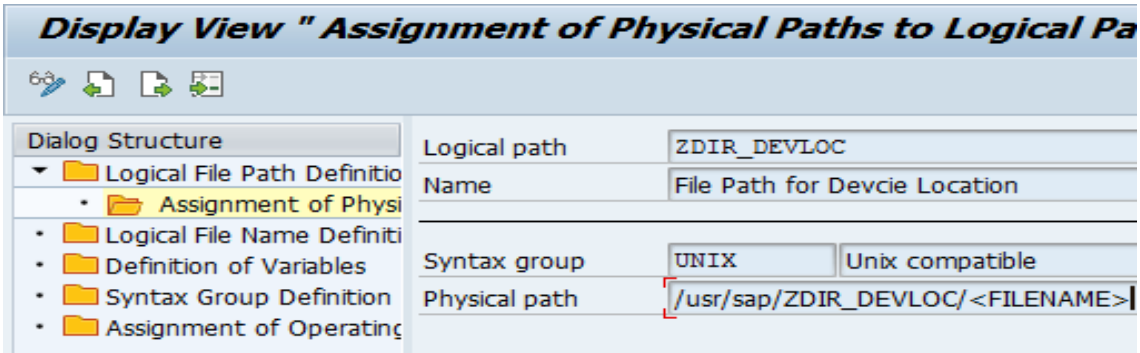
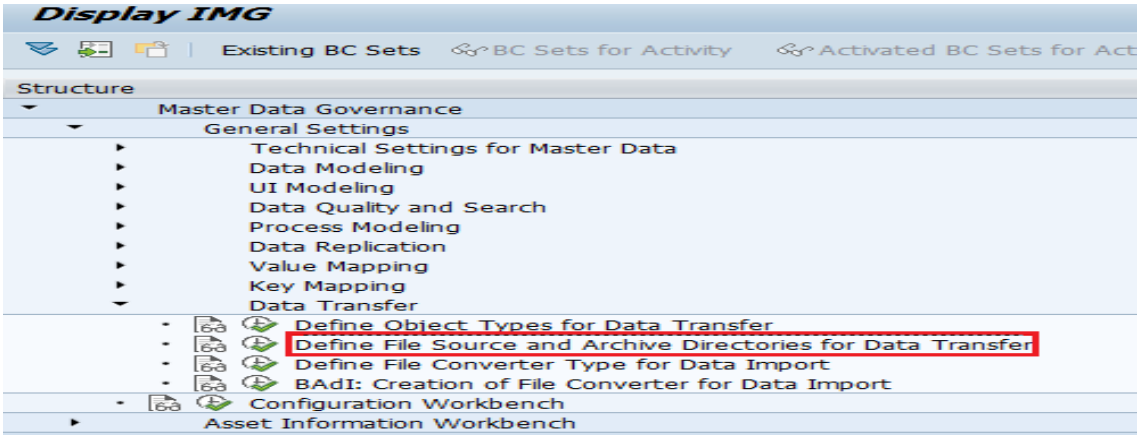


7. Assign physical path for ZDIR_DEVLOC:



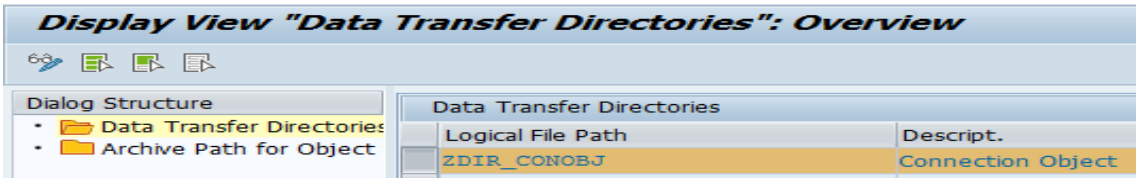
Defining Source and Logical Directories

Go to MDGIMG > Master data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.

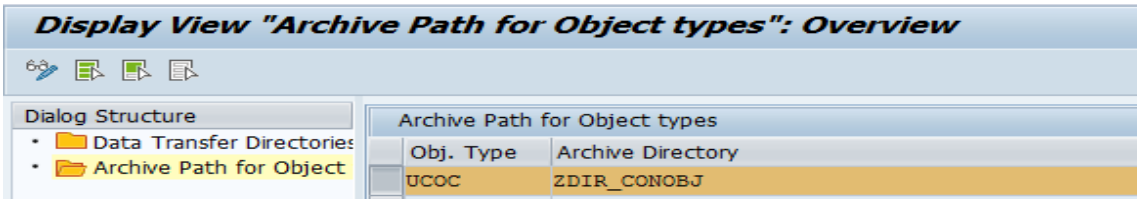


ISU – Connection Object

1. Click on Data Transfer Directories > Maintain the Connection Object directory which is created in t-code FILE T.

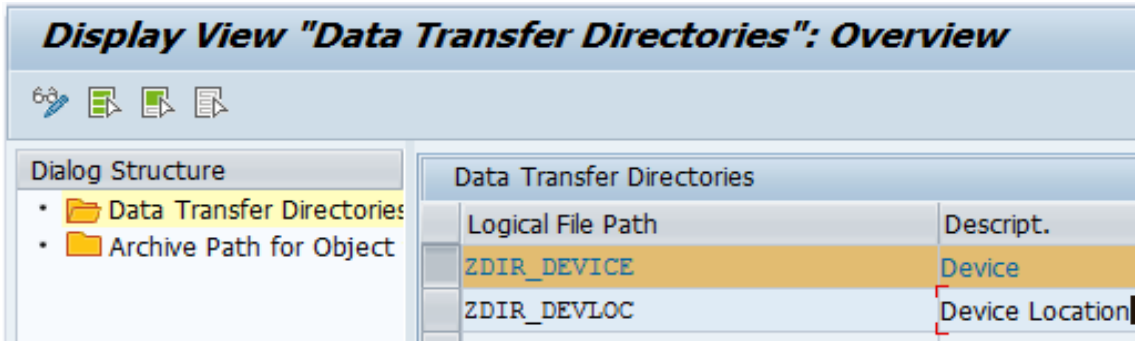


2. Click on Archive Path object types to maintain the archiving path of files used.



ISU – Device

1. Click on Data Transfer Directories > Maintain the Device directory which is created in t-code FILE.



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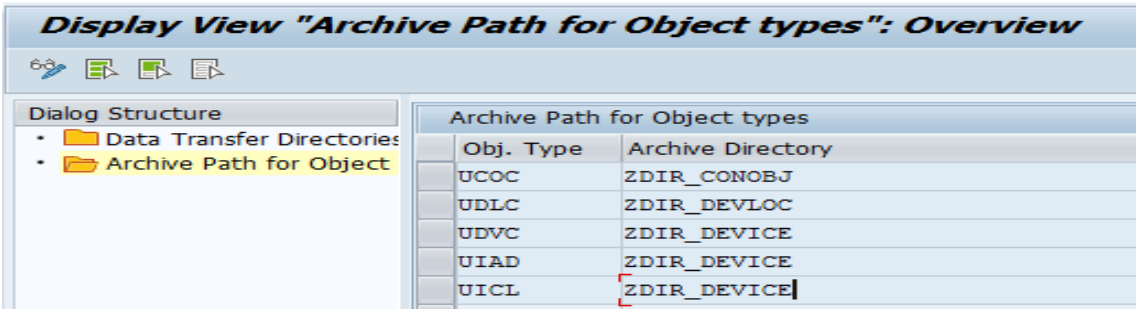
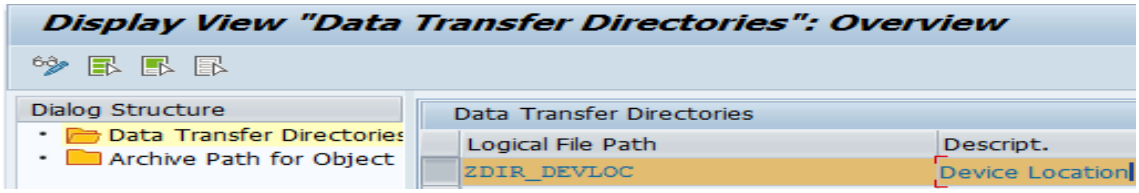


ISU – Device Location

1. Click on Data Transfer Directories > Maintain the Device Location directory which is created in t-code FILE.



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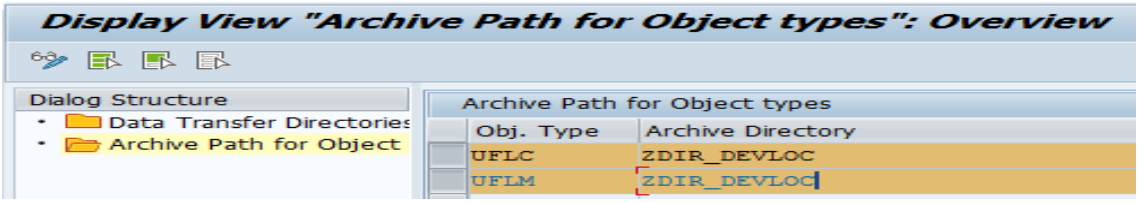
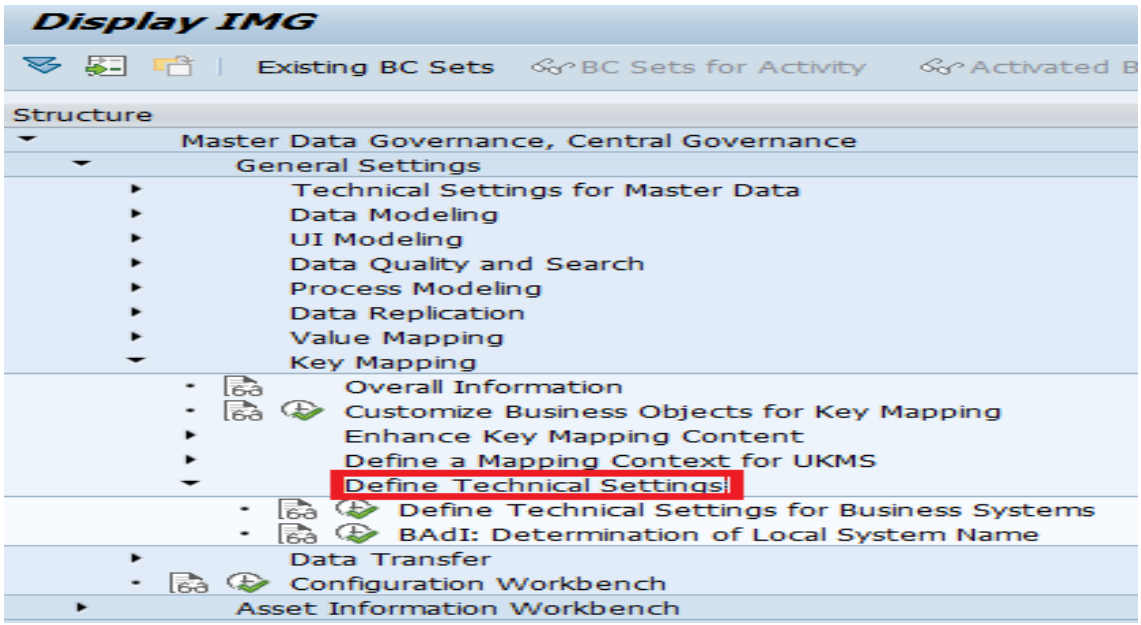


Define the Technical Settings for Business Systems

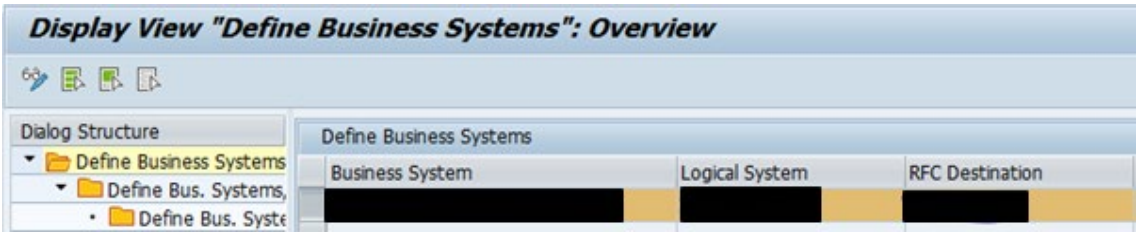
Go to Master Data Governance > General settings > Key Mapping > Define Technical Settings > Define Technical Settings for Business Systems.



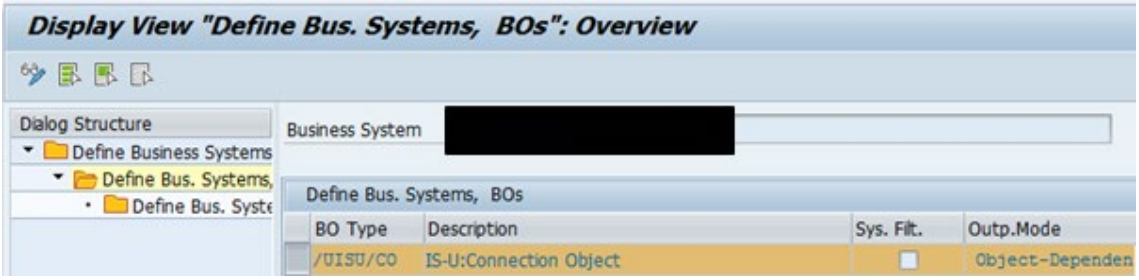
ISU – Connection Object

Use the following steps to define technical settings for business systems:

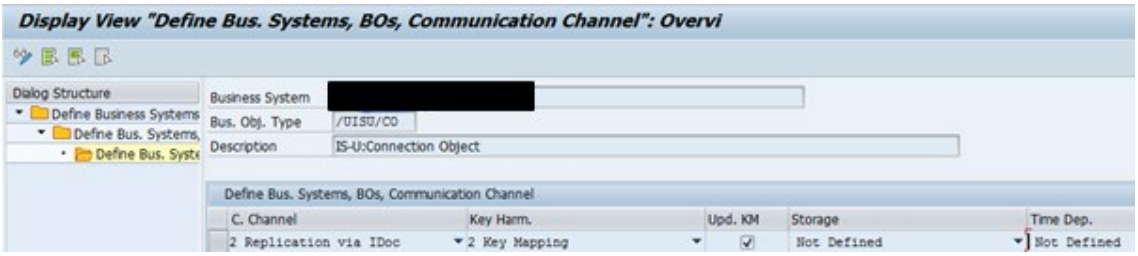
1. Define the business system:



2. Add the Connection Object BO Type for the business system:
   - BO Types /UGI/CO (Connection Object)



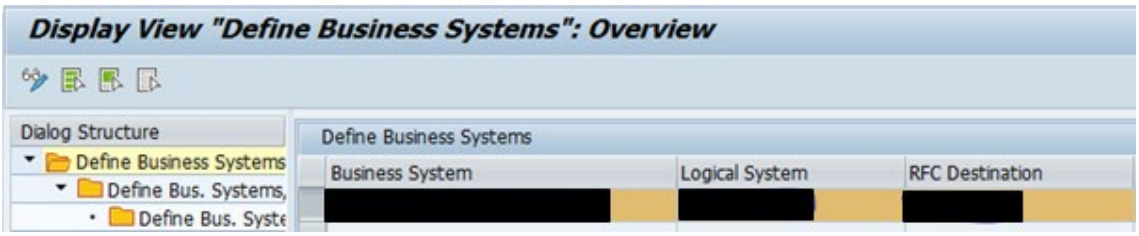
3. For Harmonized scenarios, update the communication channel settings as explained in the following section:



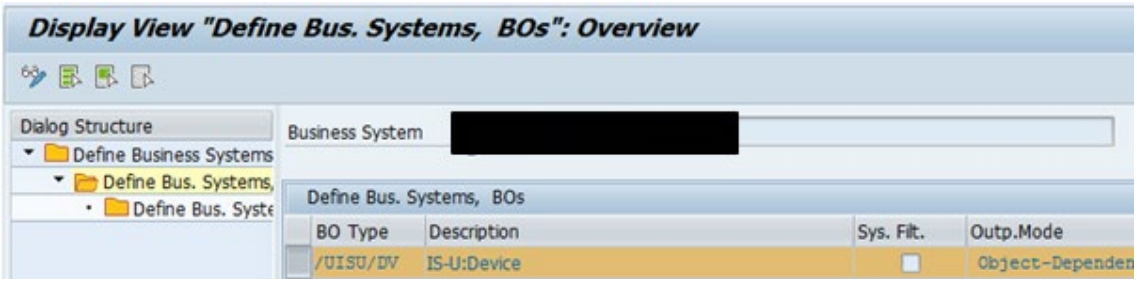
ISU – Device

Use the following steps to define technical settings for business systems:

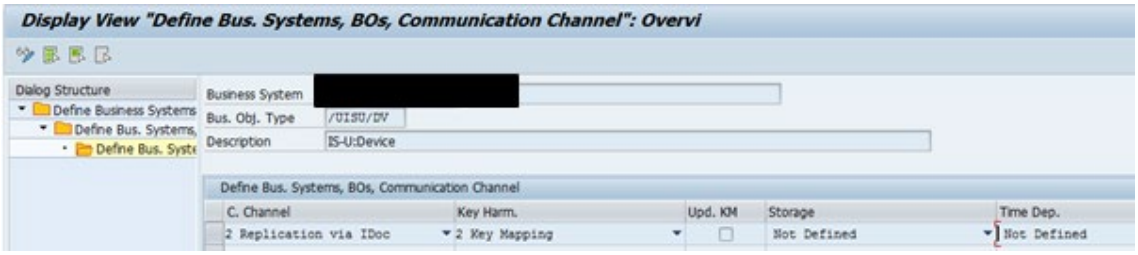
1. Define the business system:



2. Add the Device BO Type for the business system:
   - BO Types /UGI/DV (Device)



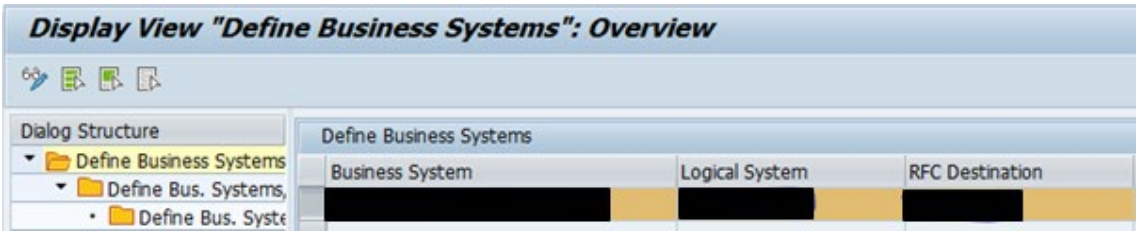
3. For Harmonized scenarios, update the communication channel settings as explained in the following section:



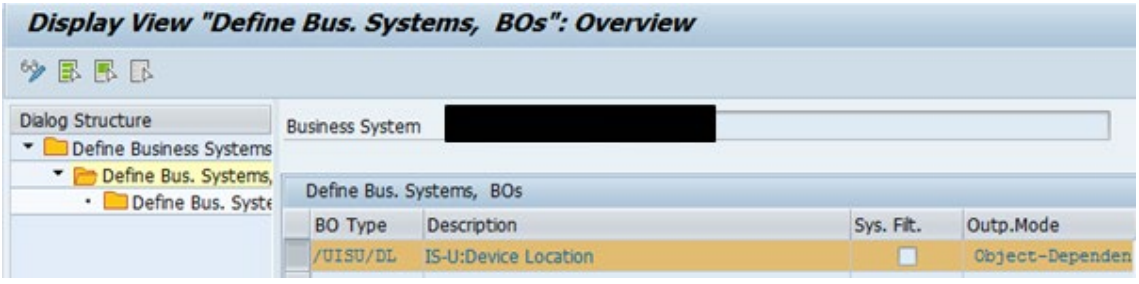
ISU – Device Location

Use the following steps to define technical settings for business systems:

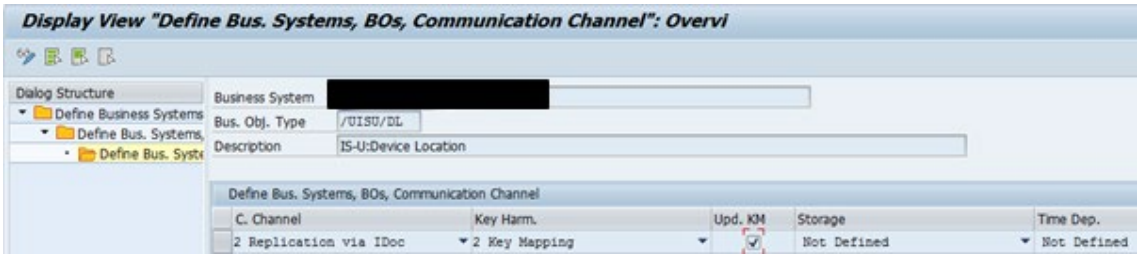
1. Define the business system:



2. Add the Device Location BO Type for the business system:
   - BO Types /UGI/DL (Device Location)



3. For Key Mapping scenarios, update the communication channel settings as explained in the following section:



Test Scenario for DIF

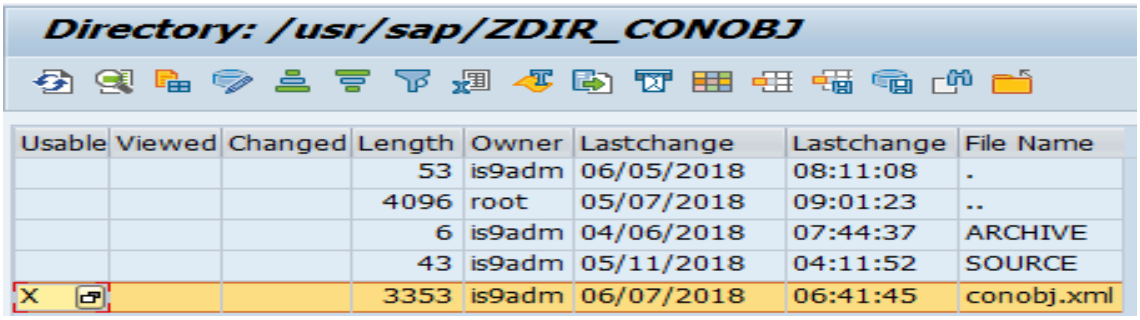
ISU – Connection Object

Downloading XML File.

1. Go to t-code AL11 and get the directory name for file.

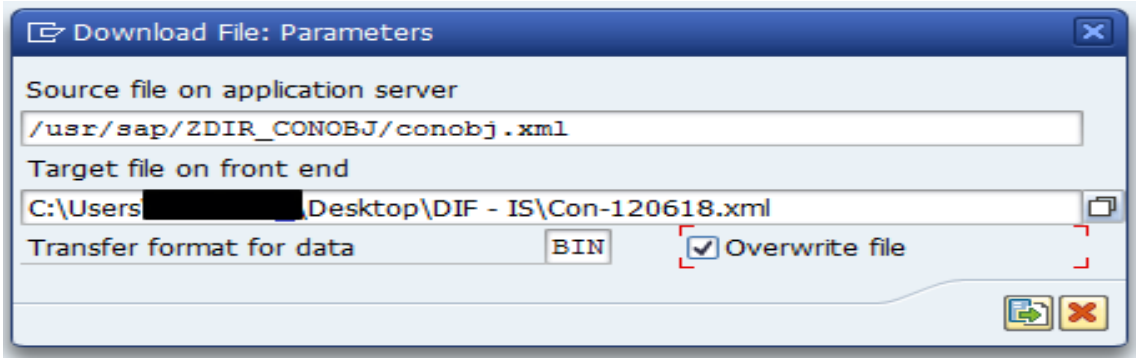
ZDIR_CONOBJ	/usr/sap/ZDIR_CONOBJ

2. Open directory and get the file name to download.



Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			53	is9adm	06/05/2018	08:11:08	.
			4096	root	05/07/2018	09:01:23	..
			6	is9adm	04/06/2018	07:44:37	ARCHIVE
			43	is9adm	05/11/2018	04:11:52	SOURCE
X			3353	is9adm	06/07/2018	06:41:45	conobj.xml

3. Go to t-code CG3Y to download the file. Enter the source file name and the target file name. Click on Overwrite checkbox, to overwrite if file exist with same name.



4. Click on “Download” button. The file is downloaded in the specified location.

   Make necessary changes in XML file.

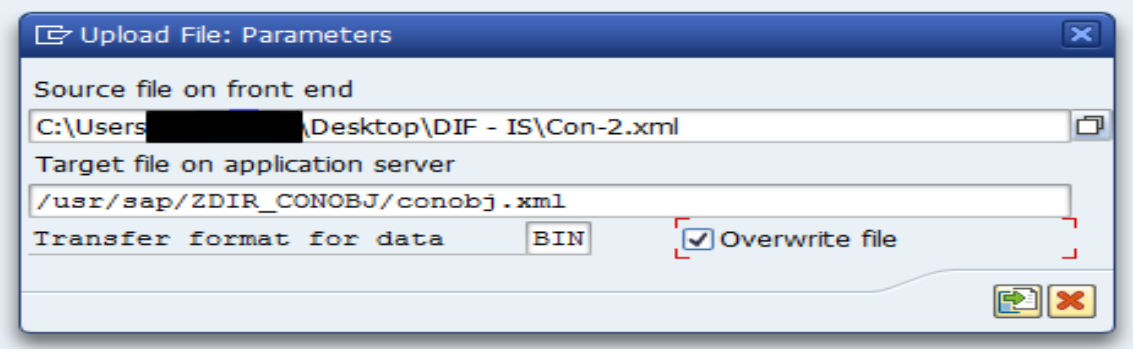
   You can run the DIF for Connection Object in Manual Processing/Defined by Change Request/ Governance modes with/without key mapping.

   Use the following steps to upload the xml file and test DIF:

   Sample IDoc XML for DIF Import from client system is attached:

Con-2.xml

5. Upload the file.
6. Run the t-code CG3Z > Choose the upload file Parameters-Source file on front end and Target file on application server paths > Click on Upload icon.



7. Check file in AL11 System.

ZDIR_CONOBJ	/usr/sap/ZDIR_CONOBJ

Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			53	is9adm	06/05/2018	08:11:08	.
			4096	root	05/07/2018	09:01:23	..
			6	is9adm	04/06/2018	07:44:37	ARCHIVE
			43	is9adm	05/11/2018	04:11:52	SOURCE
X			3094	is9adm	06/13/2018	08:29:56	conobj.xml

ISU – Device

Downloading XML File.

1. Go to t-code AL11 and get the directory name for file.

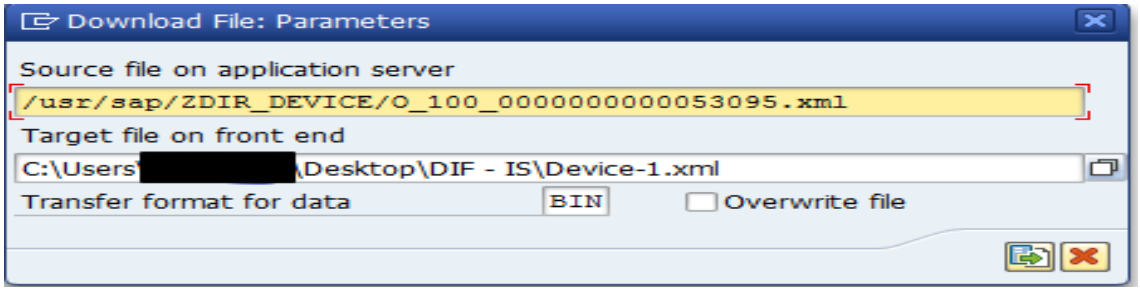
ZDIR_DEVICE	/usr/sap/ZDIR_DEVICE

2. Open directory and get the file name to download.

Directory: /usr/sap/ZDIR_DEVICE

Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			35	is9adm	06/20/2018	03:44:02	.
			4096	root	05/07/2018	09:01:23	..
			6	is9adm	04/06/2018	07:47:56	ARCHIVE
			6	is9adm	04/06/2018	07:47:56	SOURCE

3. Go to t-code CG3Y to download the file. Enter the source file name and the target file name. Click on Overwrite checkbox, to overwrite if file exist with same name.



4. Click on “Download” button. The file is downloaded in the specified location.

   Make necessary changes in XML file.

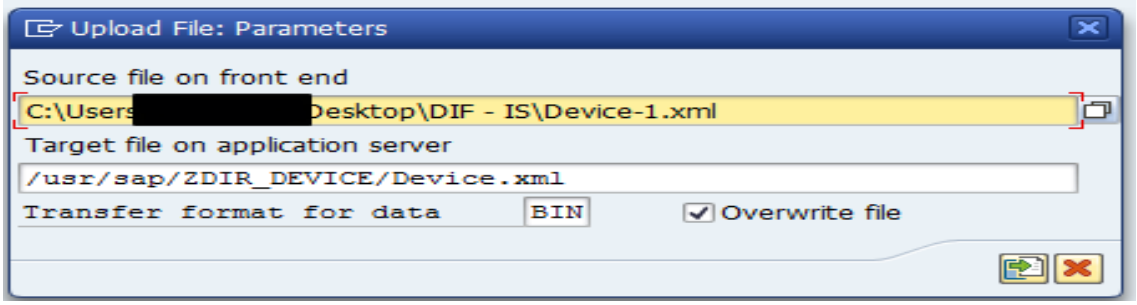
   You can run the DIF for Device Location in Manual Processing/Defined by Change Request/ Governance modes with/without key mapping.

   Use the following steps to upload the xml file and test DIF:

   Sample IDoc XML file for DIF Import from client system is attached:

   Device-1.xml

8. Upload the file.
9. Run the t-code CG3Z > Choose the upload file Parameters-Source file on front end and Target file on application server paths > Click on Upload icon.



10. Check file in AL11 System.

ZDIR_DEVICE	/usr/sap/ZDIR_DEVICE

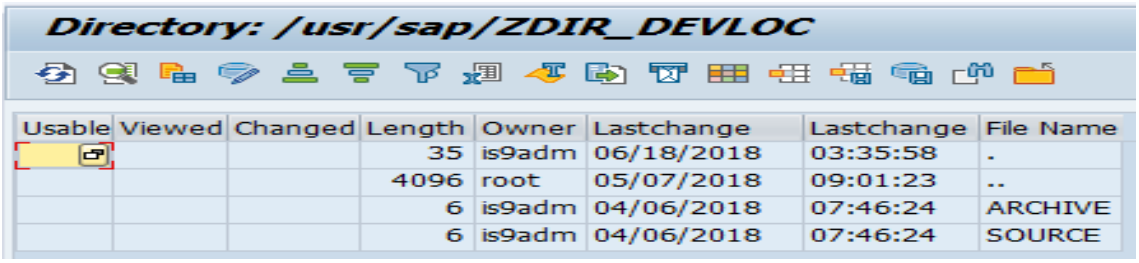
ISU – Device Location

Downloading XML File.

1. Go to t-code AL11 and get the directory name for file.

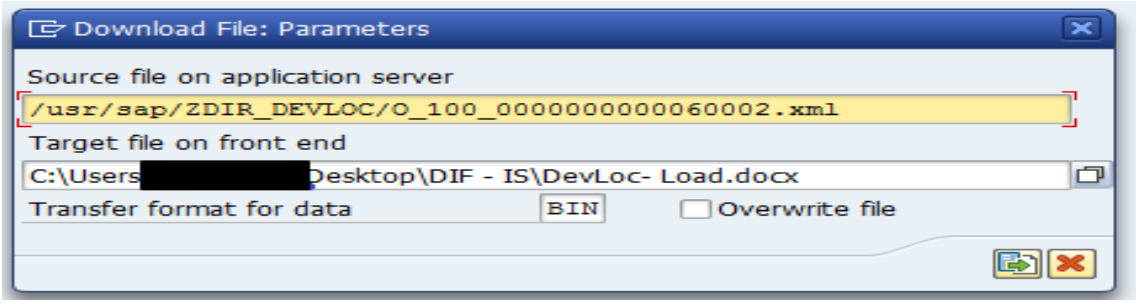
ZDIR_DEVLOC	/usr/sap/ZDIR_DEVLOC

2. Open directory and get the file name to download.



Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			35	is9adm	06/18/2018	03:35:58	.
			4096	root	05/07/2018	09:01:23	..
			6	is9adm	04/06/2018	07:46:24	ARCHIVE
			6	is9adm	04/06/2018	07:46:24	SOURCE

3. Go to t-code CG3Y to download the file. Enter the source file name and the target file name. Click on Overwrite checkbox, to overwrite if file exist with same name.



4. Click on “Download” button. The file is downloaded in the specified location.

   Make necessary changes in XML file.

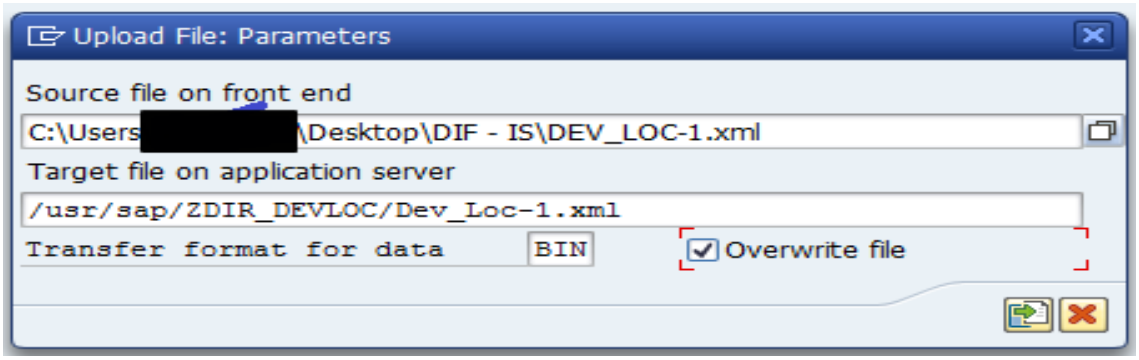
   You can run the DIF for Device Location in Manual Processing/Defined by Change Request/ Governance modes with/without key mapping.

   Use the following steps to upload the xml file and test DIF:

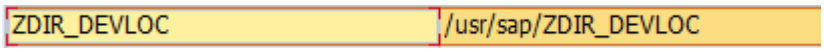
   Sample IDoc XML file is attached:

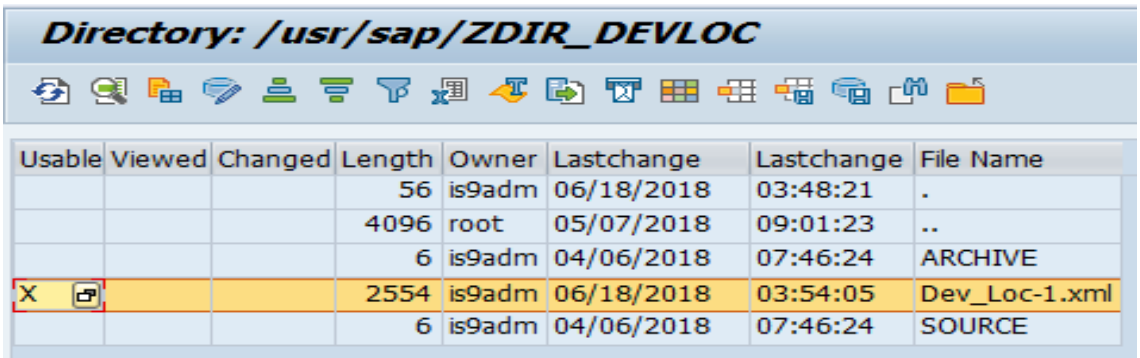
DEV_LOC-1.xml

5. Upload the file.
6. Run the t-code CG3Z > Choose the upload file Parameters-Source file on front end and Target file on application server paths > Click on Upload icon.



7. Check file in AL11 System.





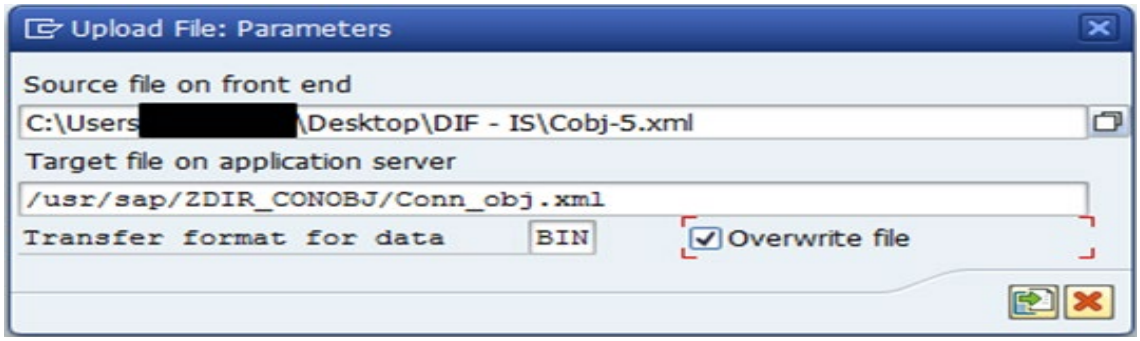
Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			56	is9adm	06/18/2018	03:48:21	.
			4096	root	05/07/2018	09:01:23	..
			6	is9adm	04/06/2018	07:46:24	ARCHIVE
X			2554	is9adm	06/18/2018	03:54:05	Dev_Loc-1.xml
			6	is9adm	04/06/2018	07:46:24	SOURCE

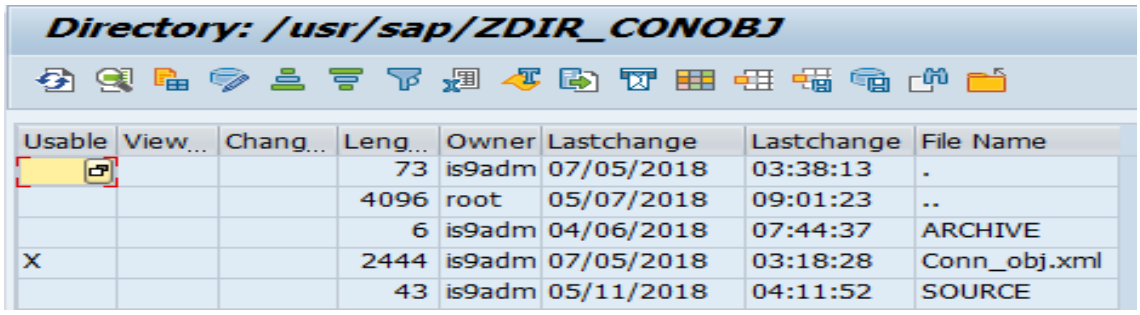
Data Import

ISU – Connection Object

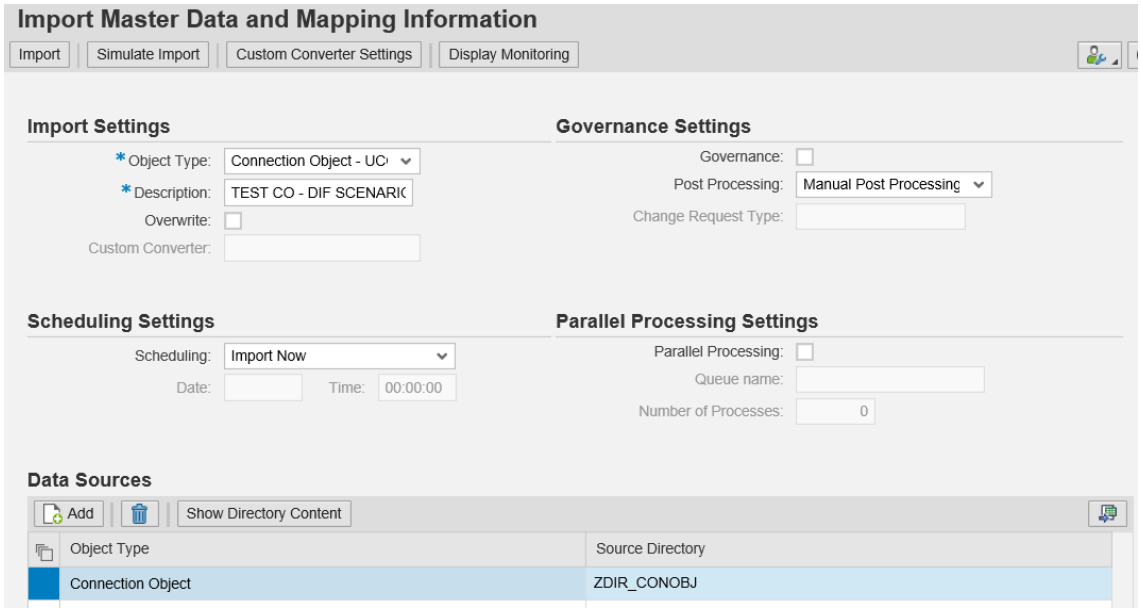
Use the following documents for Data Import:

1. Upload the file using t-code CG3Z.

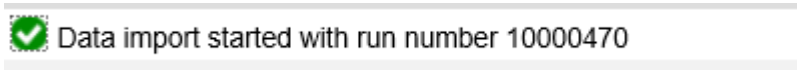




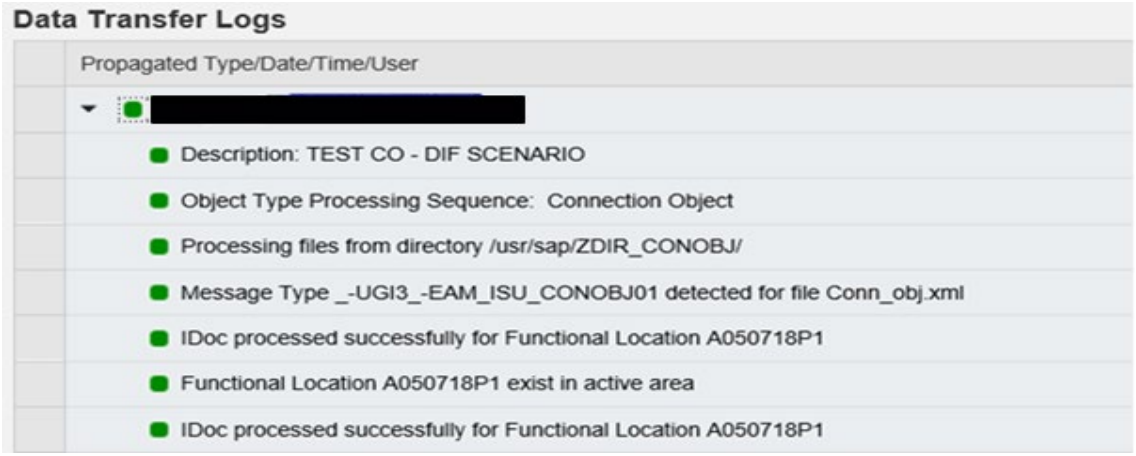
2. Load the file.



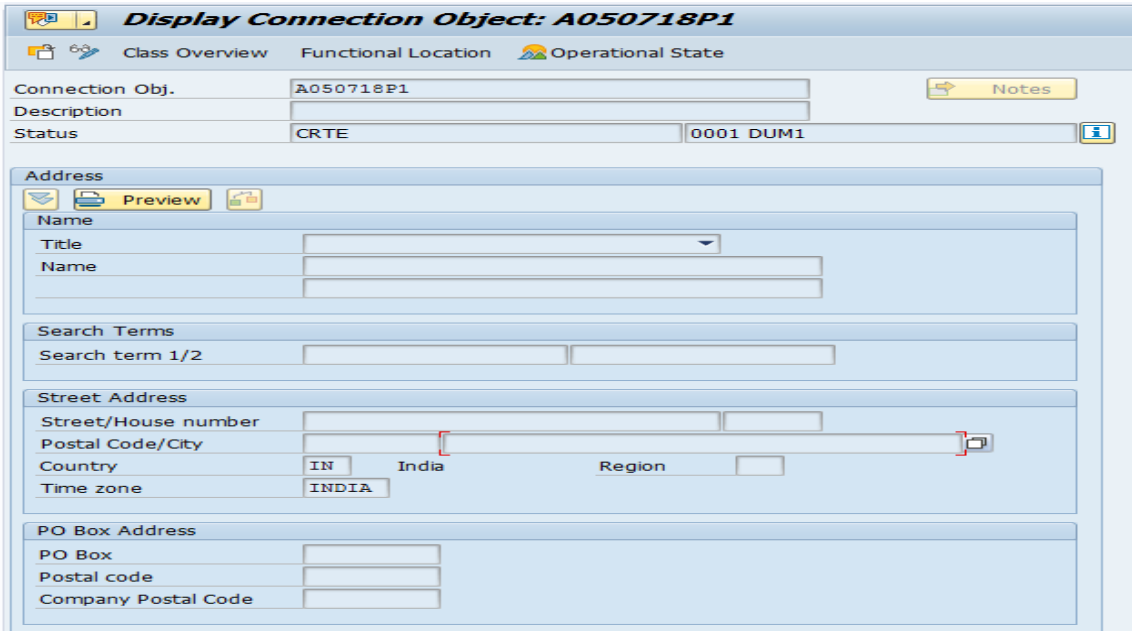
3. Click on “Import” button.



4. Check the run status.



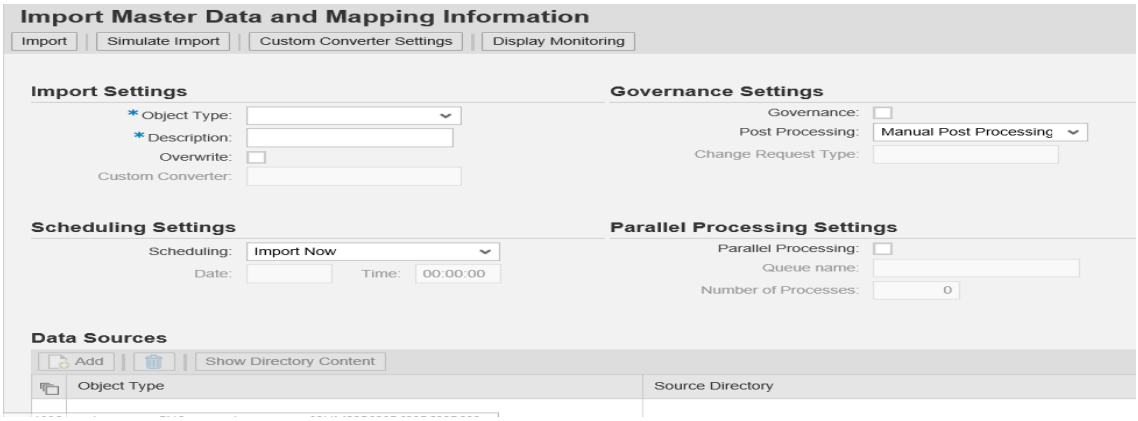
5. Check in the system.



ISU – Device

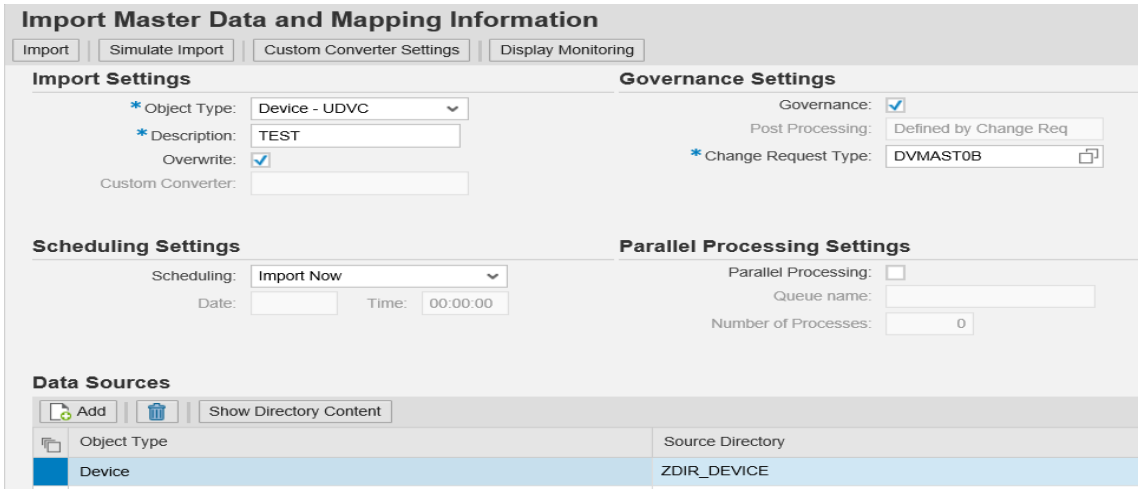
Use the following steps to import data:

1. Navigate to the data exchange tab > Data load > Import Master data

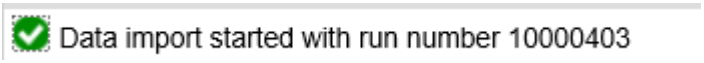


Scenario – 1 Manual Post Processing.

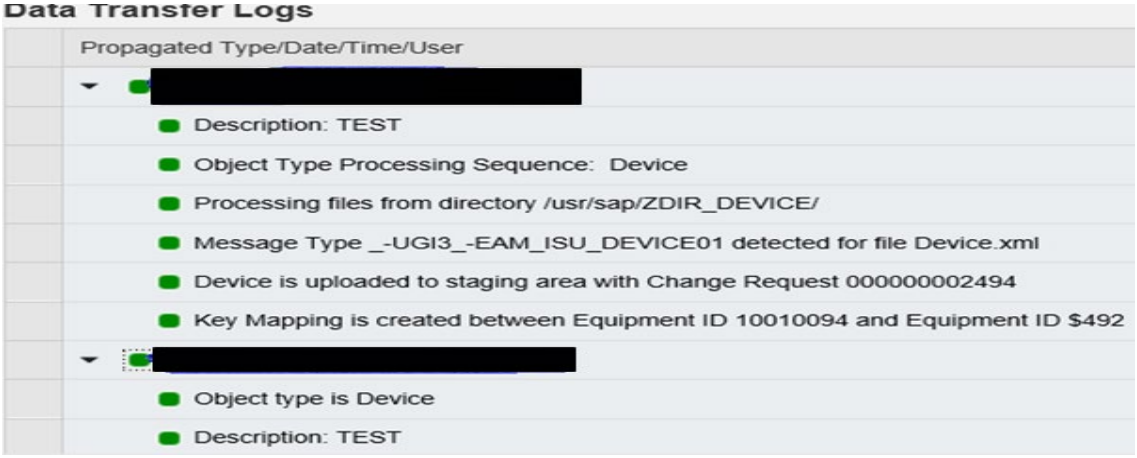
- Object type – UDVC
- Provide mandatory description
- Choose overwrite checkbox if you want the object to be overwritten
- Data Sources – Add the object type General Task List and source directory ZDIR_DEVICE



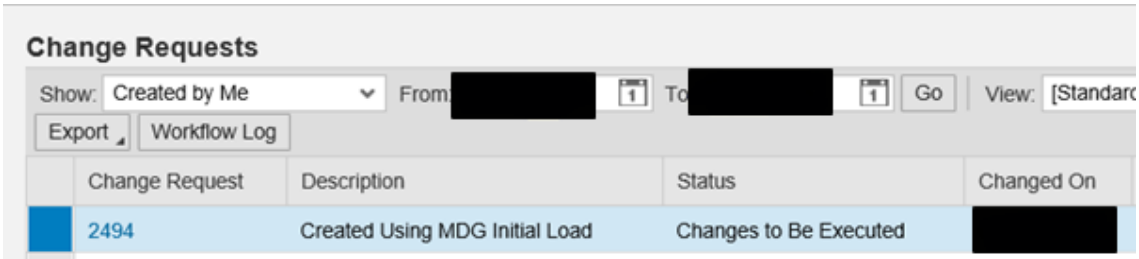
2. Click on “Import” button.



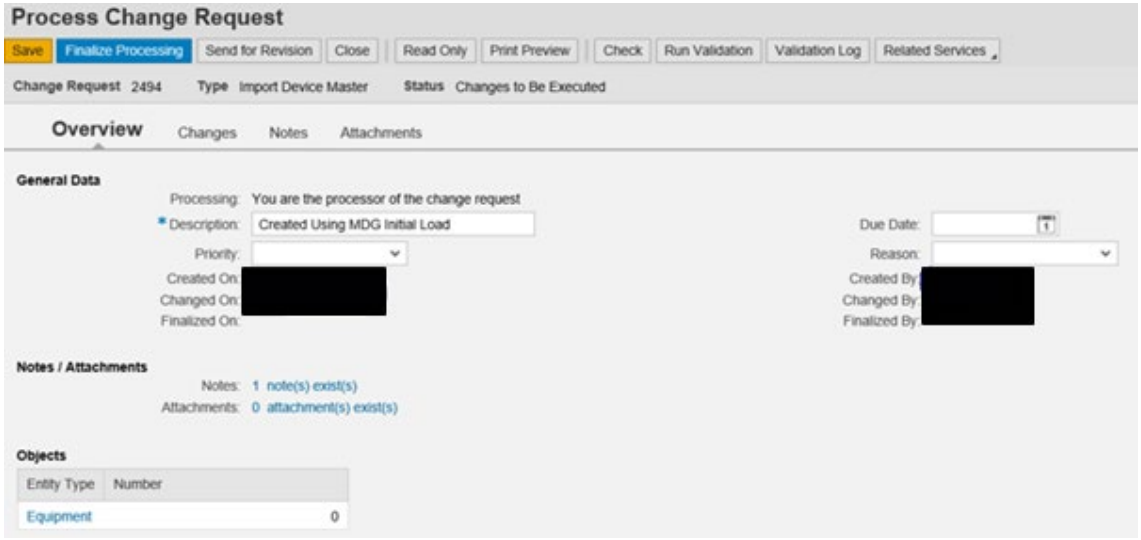
3. Click on “Display Monitoring” button to check the import log > Click on Run number to see details log.



4. Open the Change Request and approve CR.



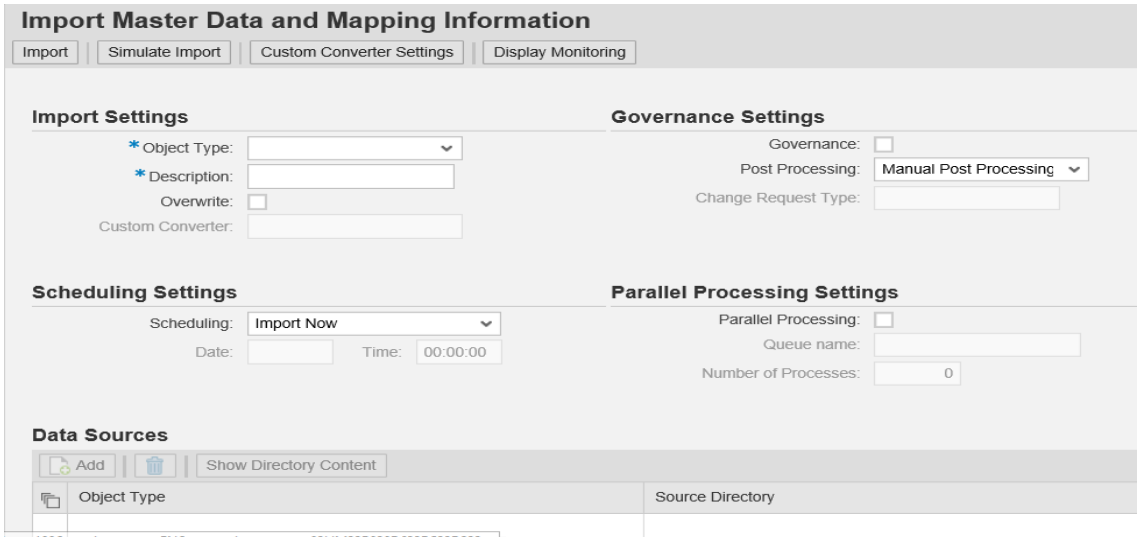
5. Click on Finalize approval.
6. Click on “Approve” button.



ISU – Device Location

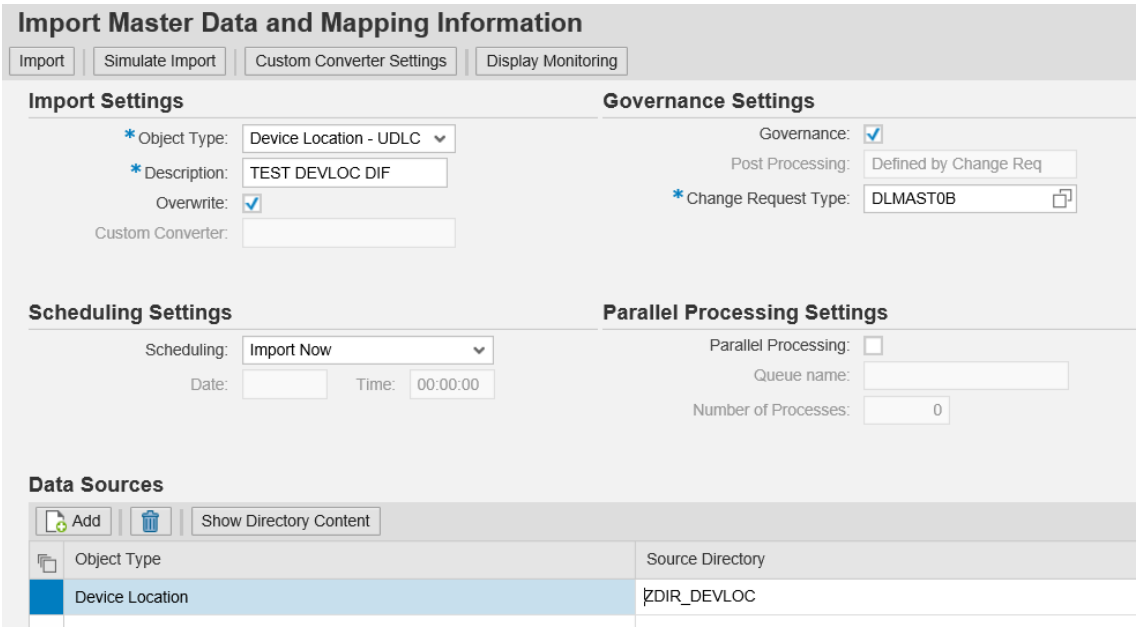
Use the following steps to import data:

1. Navigate to the data exchange tab > Data load > Import Master data



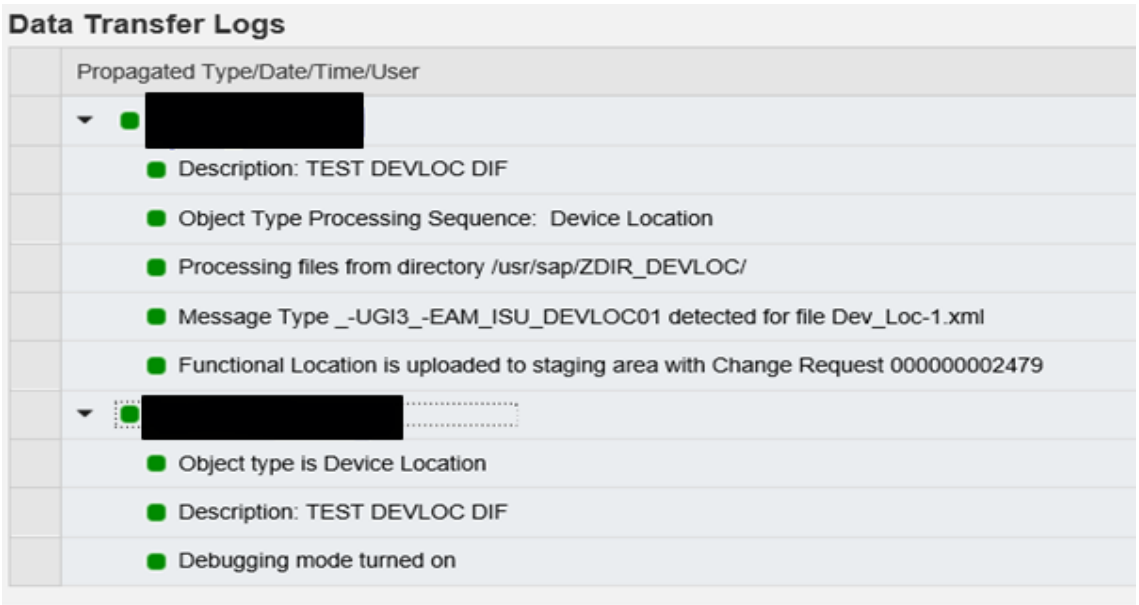
Scenario – 1: Manual Post Processing.

- Object type – UDLC
- Provide mandatory description
- Choose overwrite check box if you want the object to be overwritten
- Data Sources – Add the object type General Task List and source directory ZDIR_DEVLOC

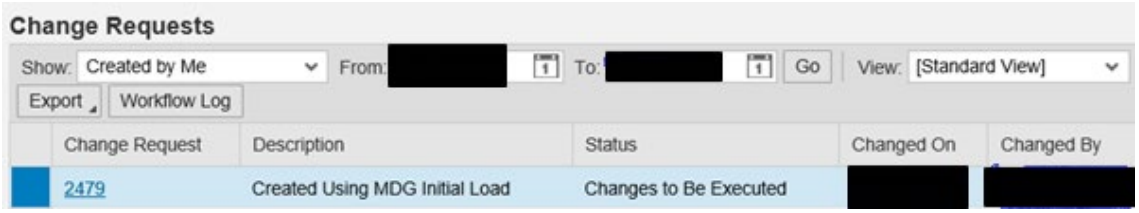


2. Click on “Import” button.

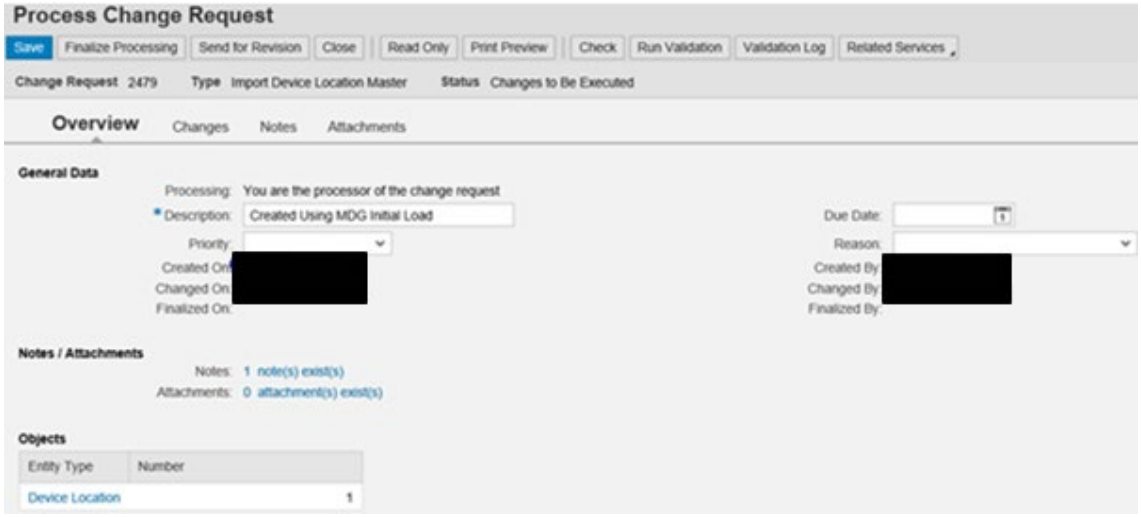
3. Click on “Display Monitoring” button to check the import log > Click on Run number to see details log.



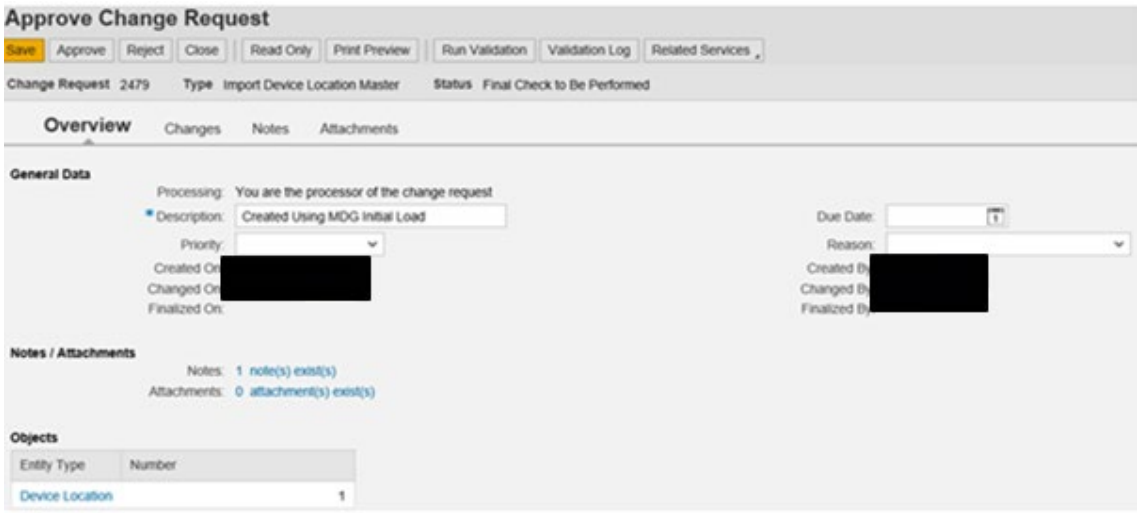
4. Open the Change Request and approve the CR.

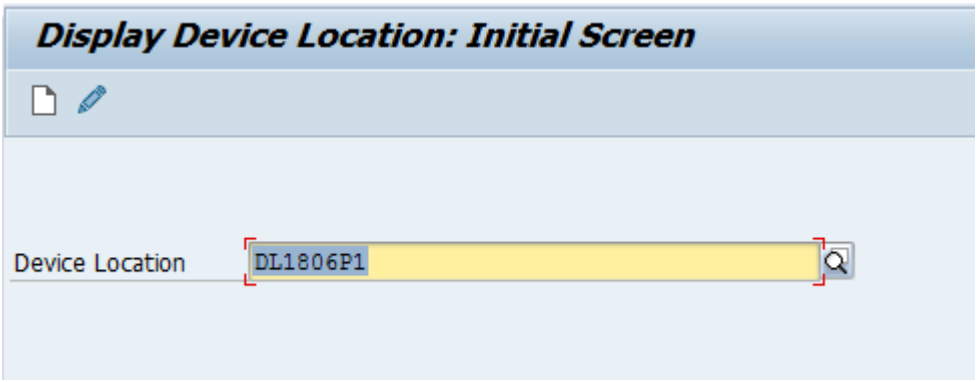


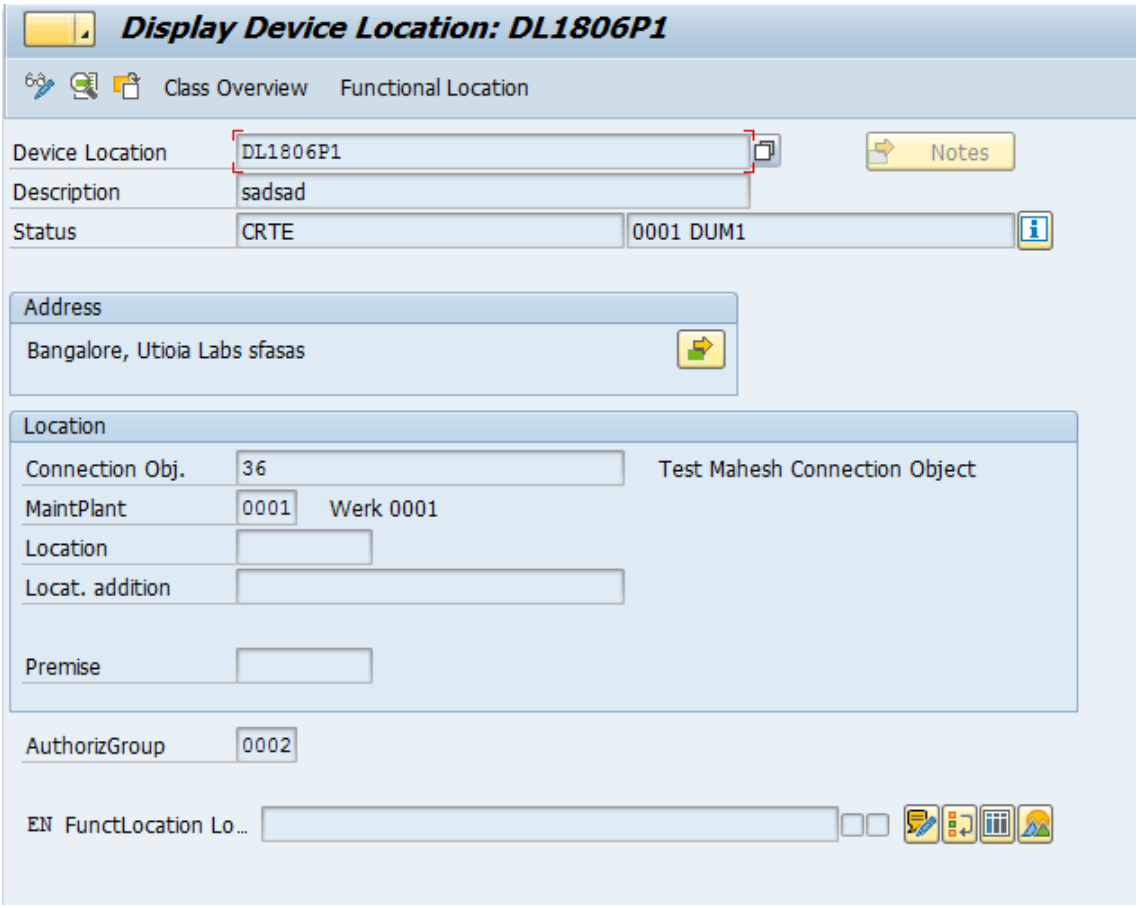
5. Click on Finalize approval.



6. Click on “Approve” button.






Display Device Location: DL1806P1
Class Overview
Functional Location
Device Location
DL1806P1
Notes
Description
sadsad
Status
CRTE
0001 DUM1
Address
Bangalore, Utioia Labs sfasas
Location
Connection Obj.
36
Test Mahesh Connection Object
MaintPlant
0001
Werk 0001
Location
Locat. addition
Premise
AuthorizGroup
0002
EN FunctLocation Lo...