How-To Guide: DT Import (DIF) Doc for Object Links and Networks

Applies to

MDG EAM Solutions by Prometheus Group.

Summary

MDG for EAM 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 Object links and network. Same steps can be followed for other EAM 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

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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.

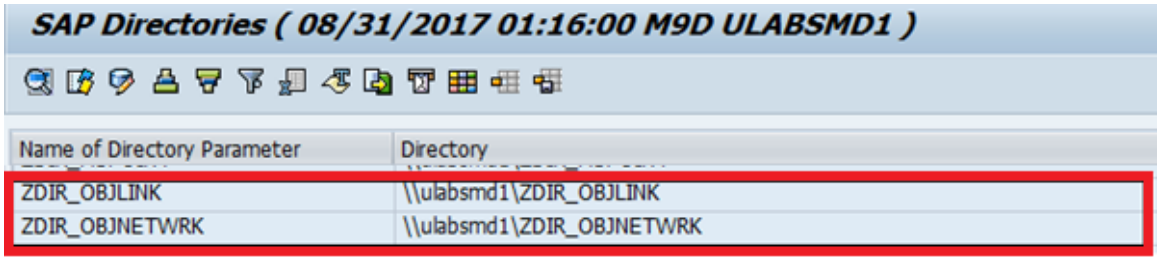
Steps for ALE Scenario Configuration

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

This guide uses the system M9D and its client 100 for sample data. When you configure this scenario for your landscape, ensure you replace system ID and client ID with your own system data.

Create a directory in AL11 for storing for Object Link and Network files which can later be imported to transfer the data.

Note: By default, BASIS creates this directory.

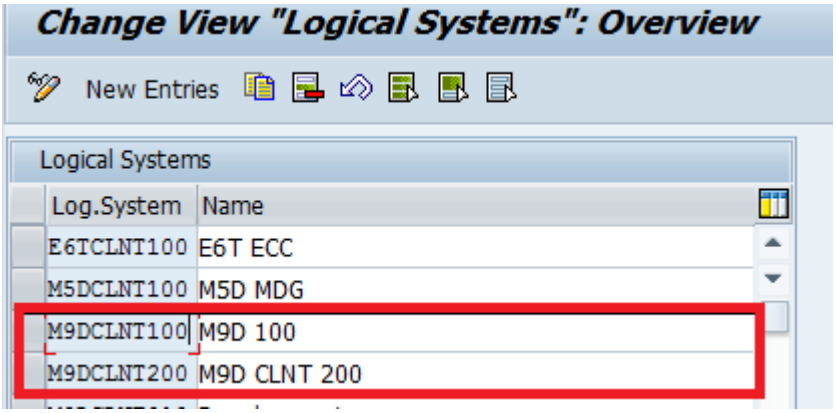


Define Logical Systems

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.

   The Logical System names used throughout this example is MDG System M9D CLNT 100 as the source and M9D CLNT 200 as the target.

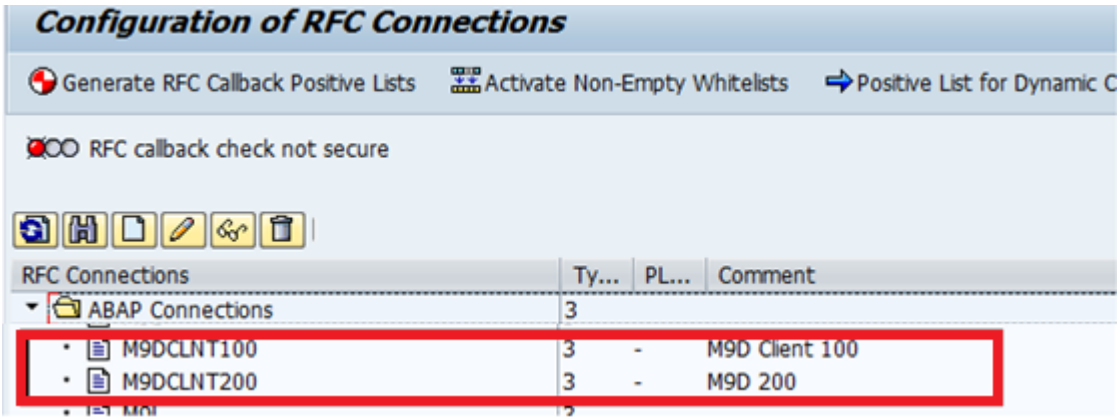


Define a RFC Connection

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:

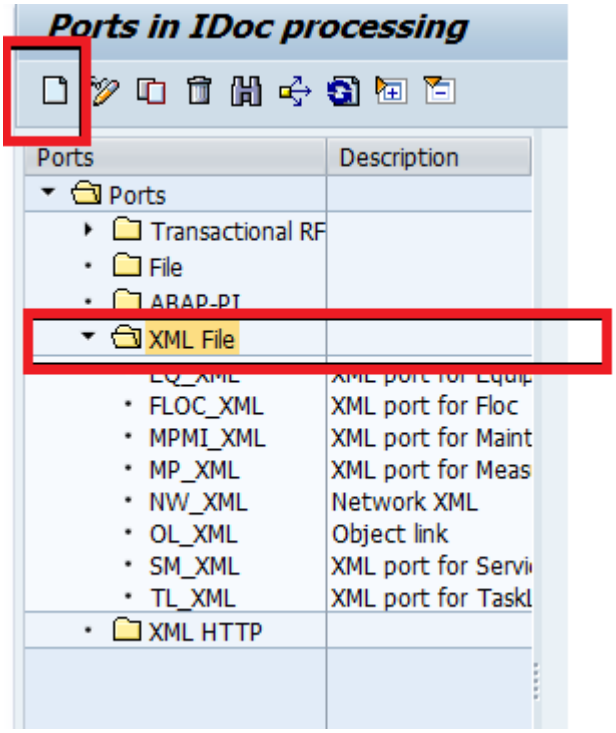
   Note: By default, BASIS creates this connection.



Define an XML Port

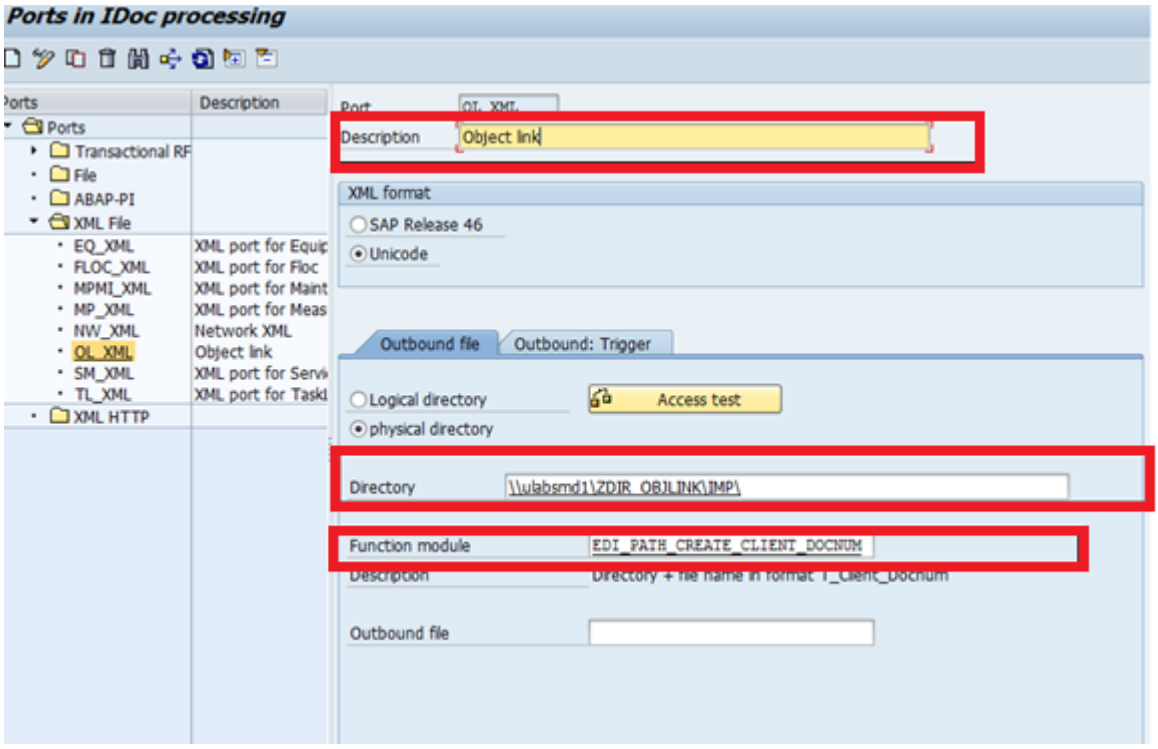
Use the following steps to define an XML Port:

1. Run the t-code WE21 > Create an XML File type port and enter the name of the port and relevant description. For example, OL_XML.

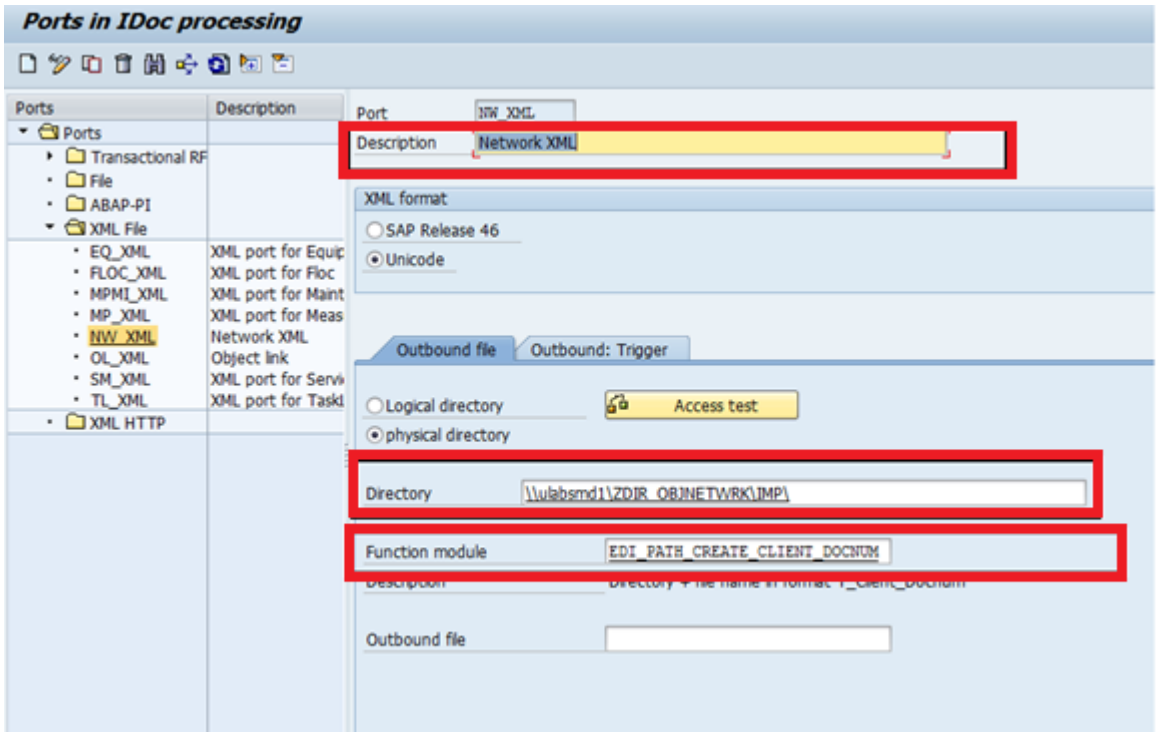


2. Enter the name of the Directory created using t-code AL11 and enter the Function module as displayed in the following screens.

   For Object Links.

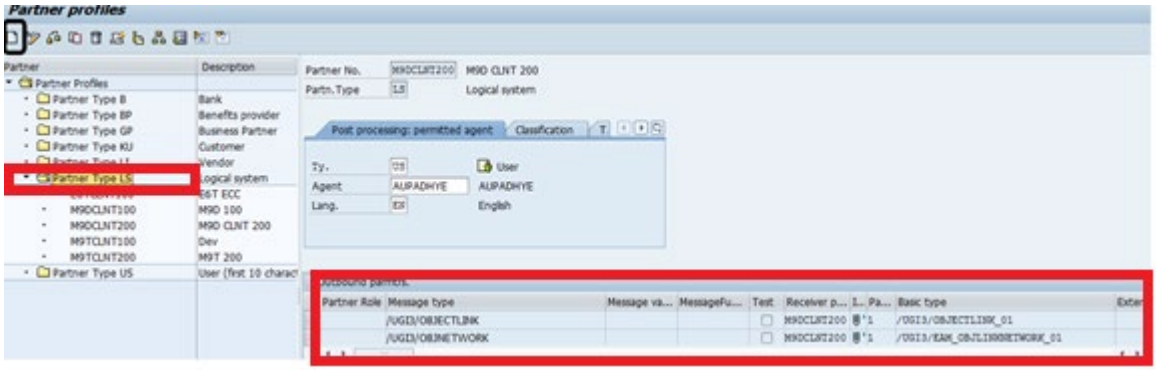


   For Object Networks.

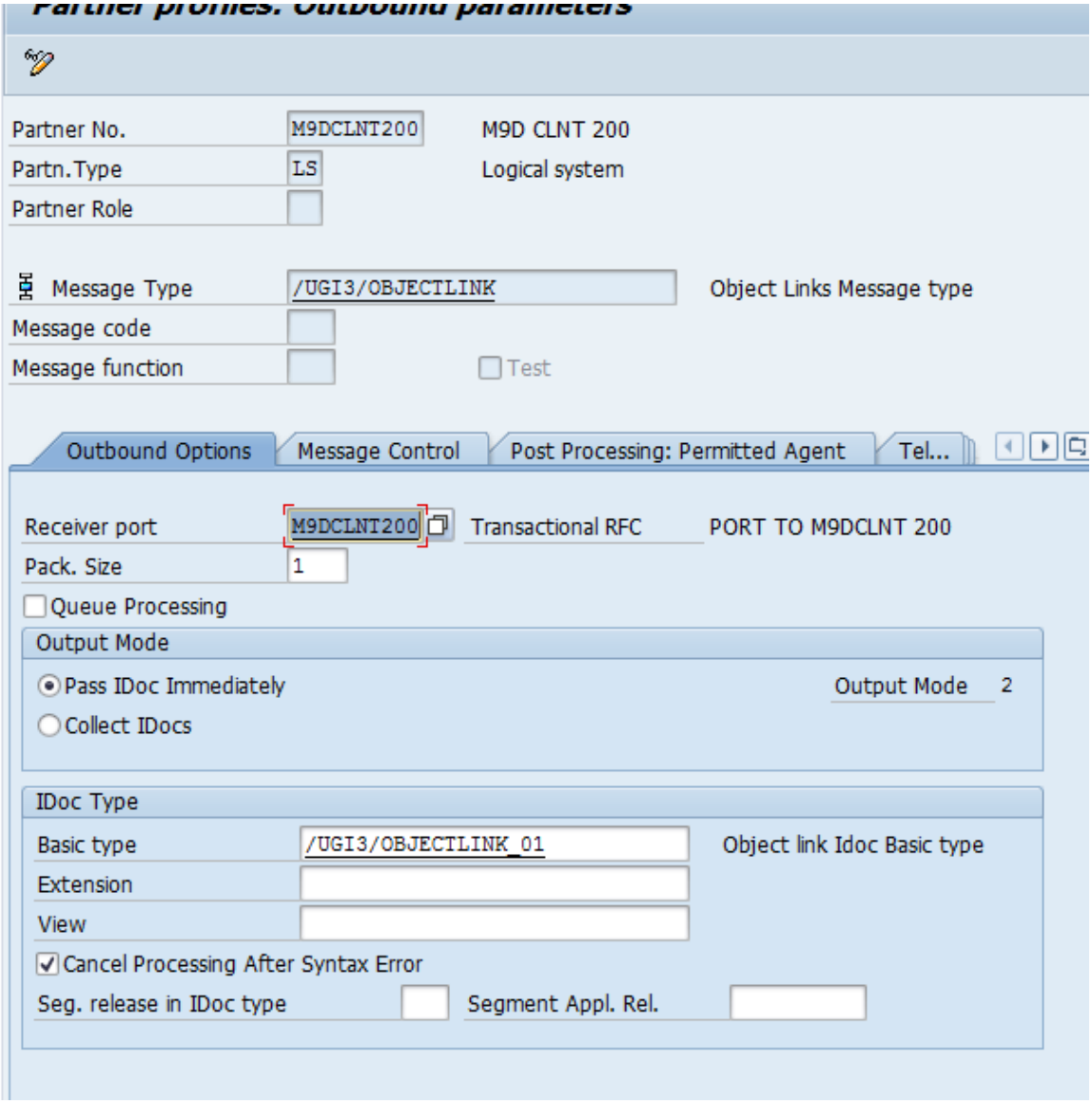


Define Partner Profiles

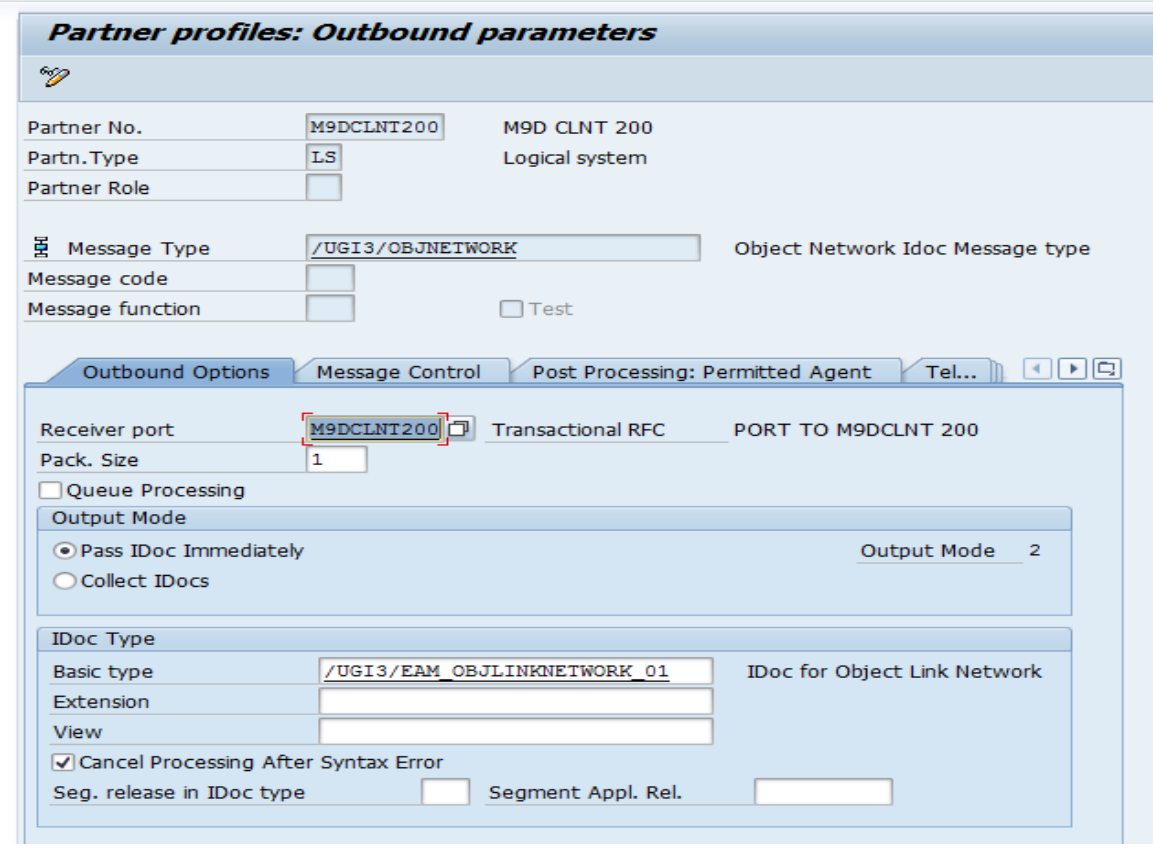
Run the t-code WE20 > Locate the MDG Client M9DCLNT200 under tree node Partner Profile LS > Maintain the settings for message types /UGI3/OBJECTLINK, /UGI3/OBJNETWORK and /UGI3/NETWORKEVTID, CLFMAS under outbound parameters.



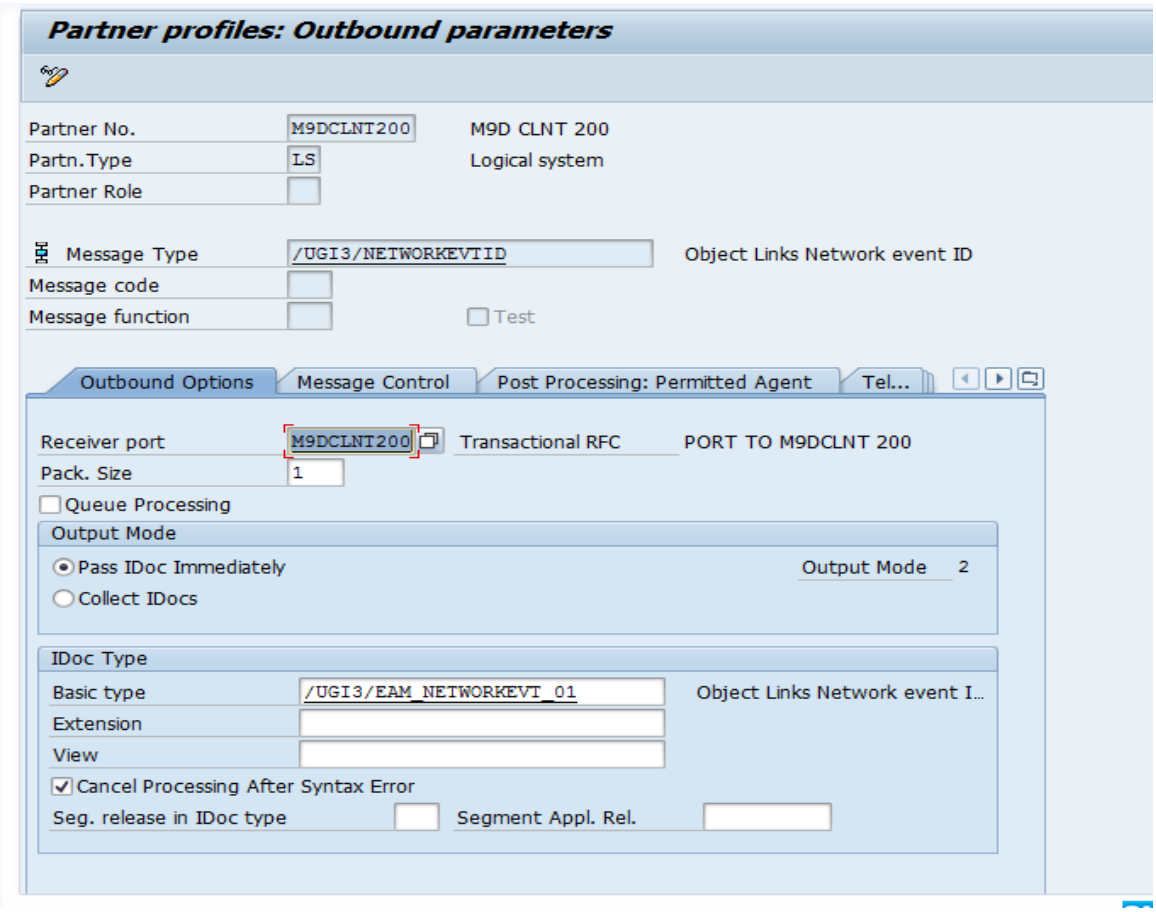
Object Links Partner Profile.



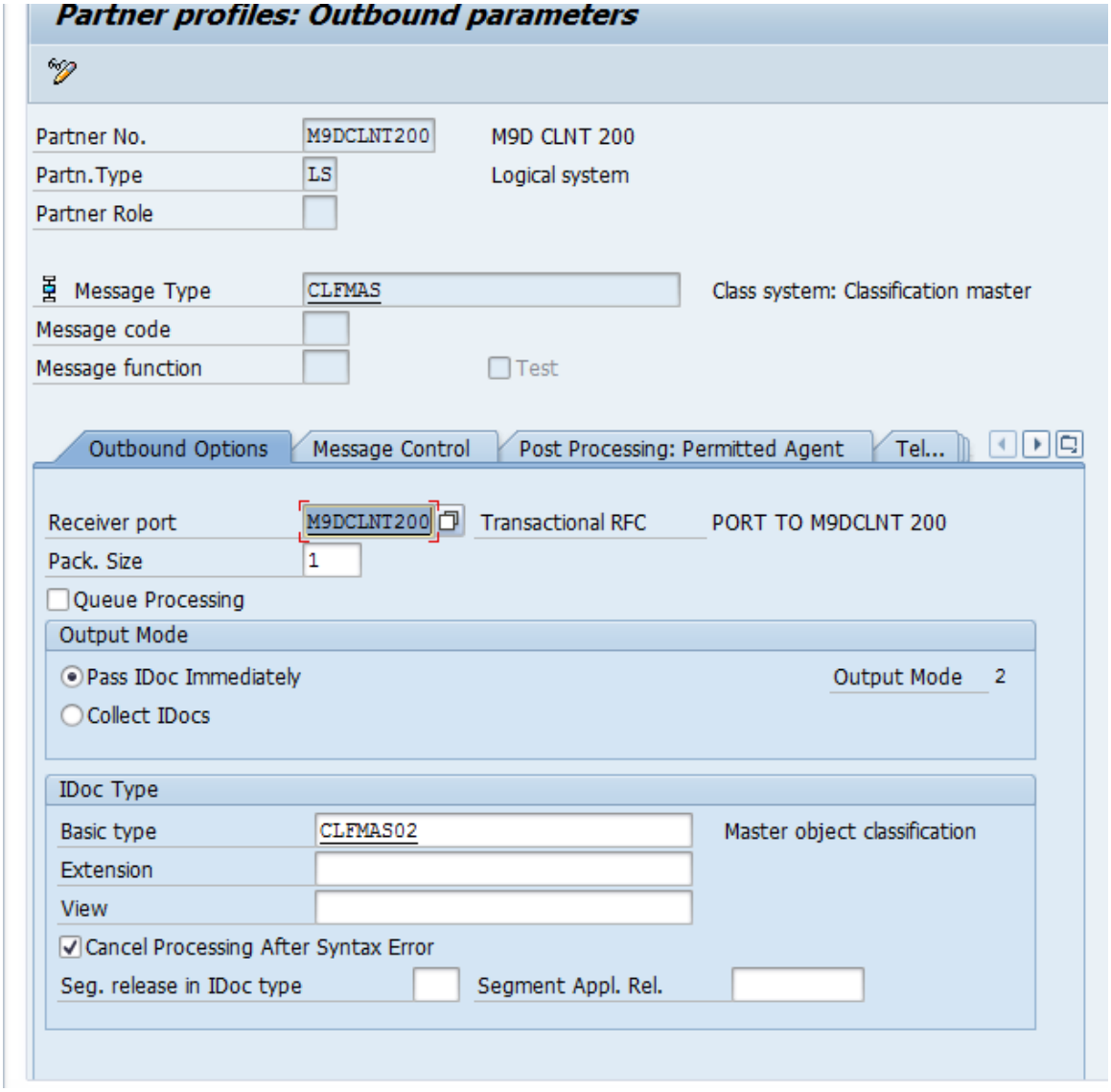
Object Networks Partner Profile.



Event Partner Profile.

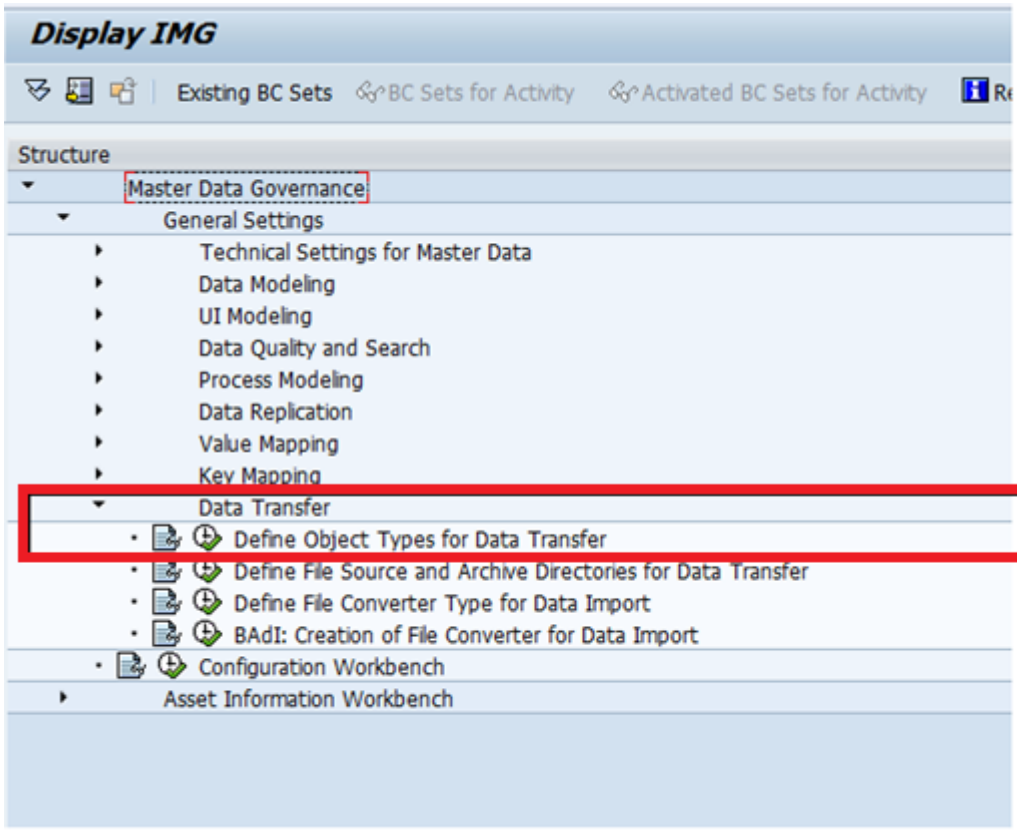


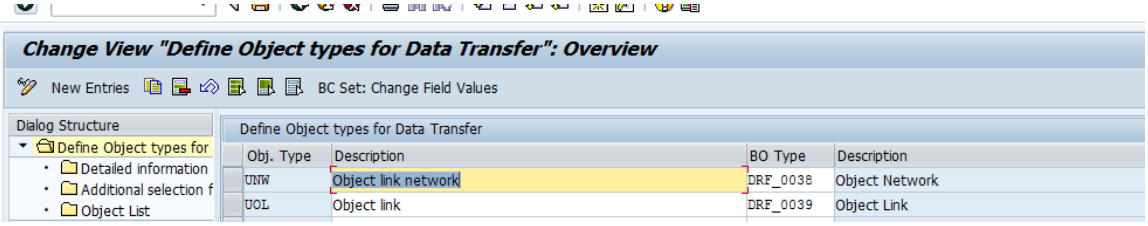
Classification Partner Profile.



Define Object Types

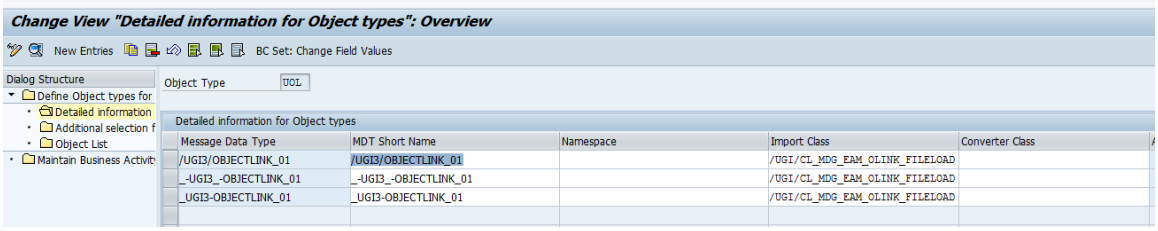
Go to MDGIMG > Master Data Governance > General Settings > Data Transfer > Select Node “Define Object Types for Data Transfer”.



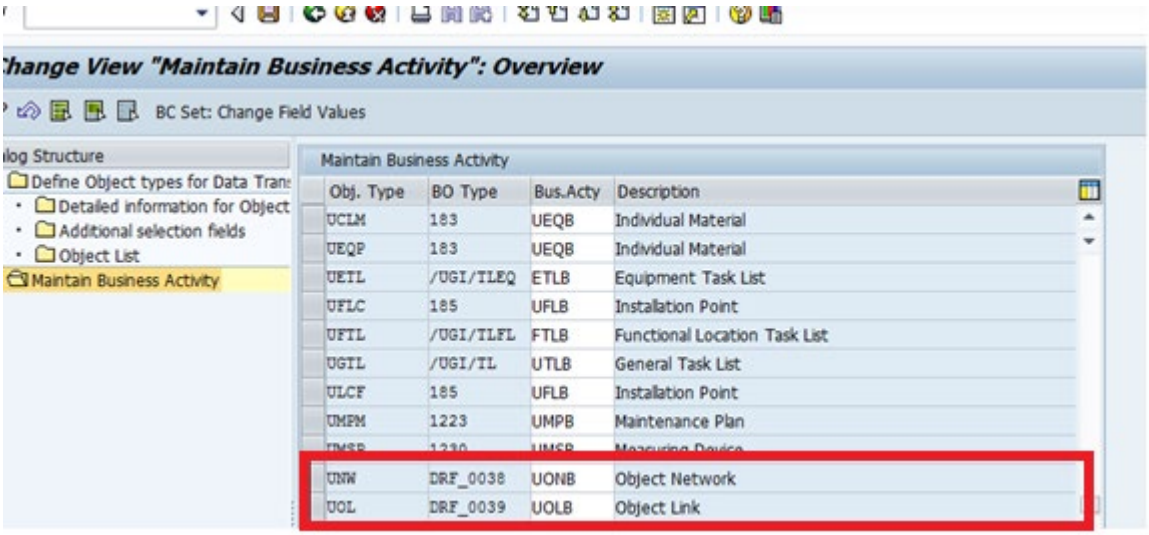


Use the following steps to set up the Data Import Framework.

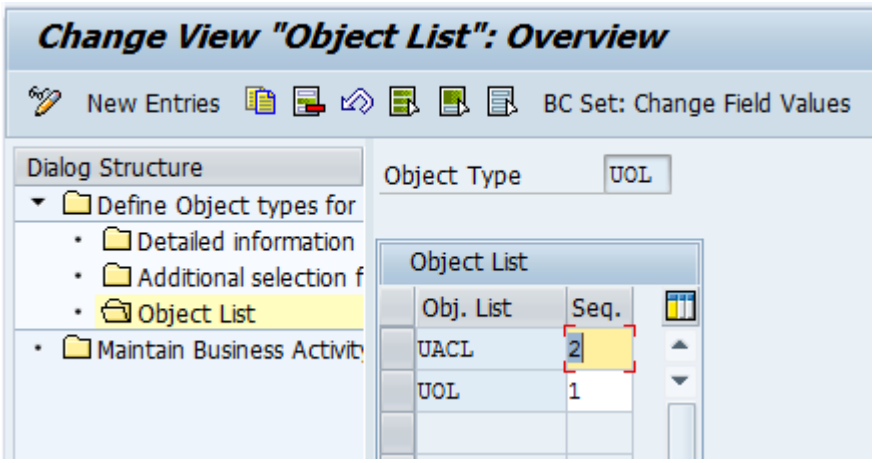
1. Click on sub-node “Detailed information for Object Types”.
2. Provide the message types to be recognized in the file while importing the data.



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.



5. Select Main business activity and maintain business activities.

File Source and Archive Directories

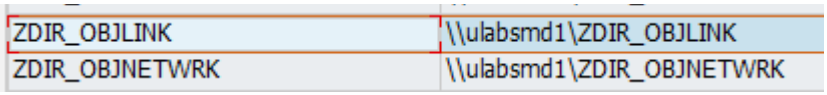
To set up the data import, source and archive logical directories in the MDG Data Transfer Customizing activity needs to be defined.

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

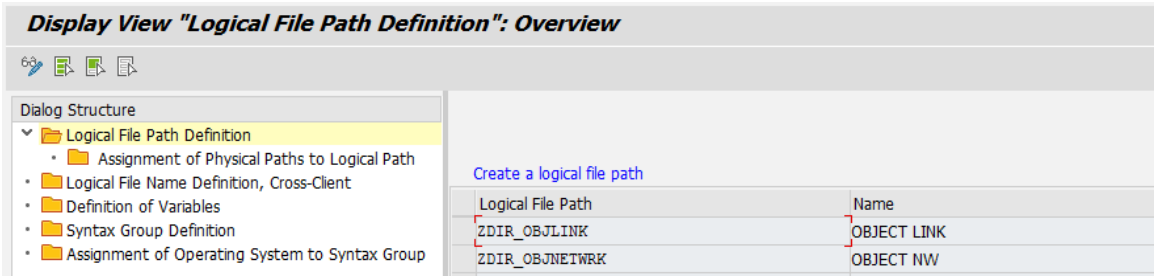
Use the following steps to define file source and archive directories:

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.

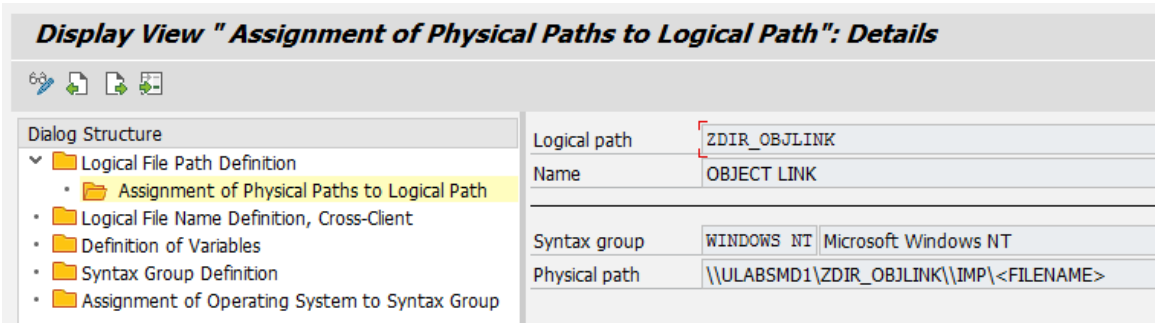
5. Use the t-code SFILE to map them to logical names.
   Run the t-code AL11 to verify the directory path creation:



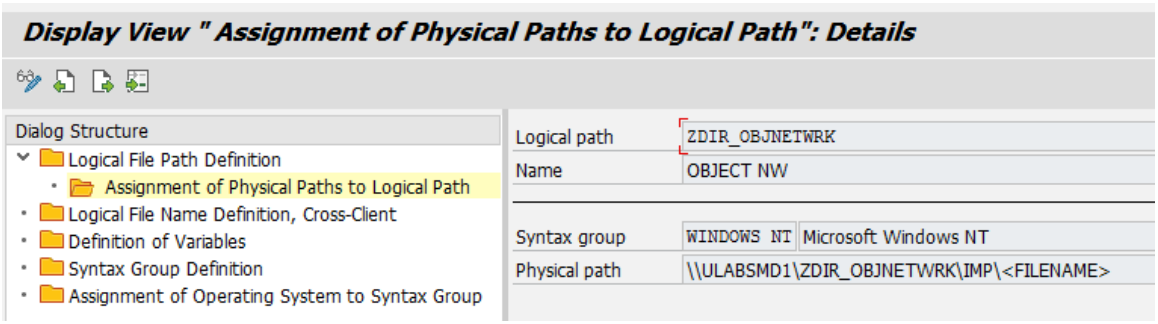
6. Run the t-code FILE to map directory path to logical names:



7. Assign physical path for ZDIR_OBJLINK.

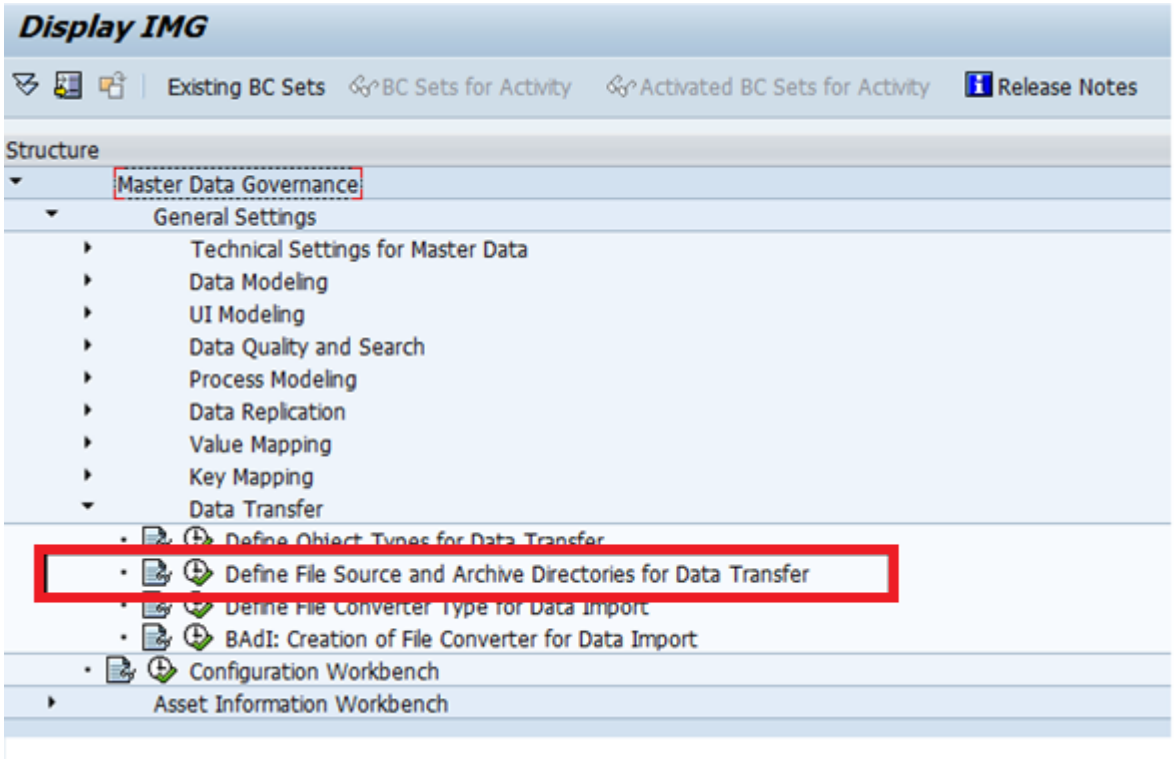


8. Assign physical path for ZDIR_OBJNETWRK.

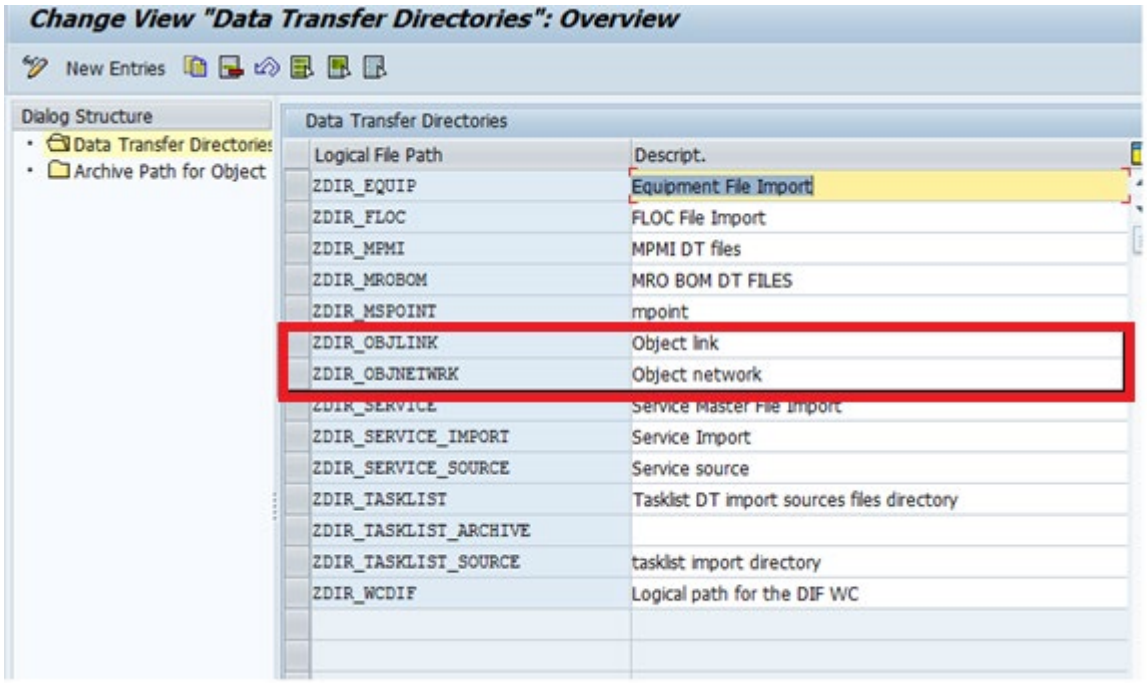


Defining Source and Logical Directories

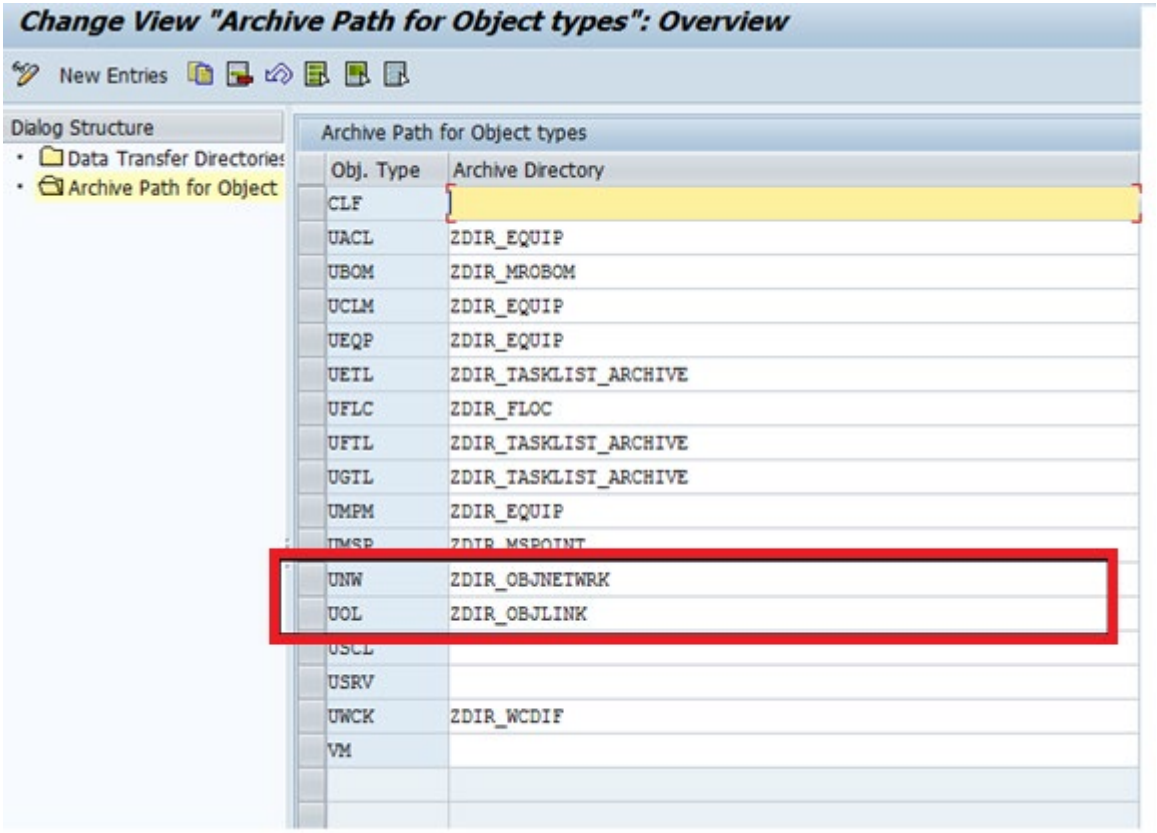
Go to MDGIMG > Master Data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.



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



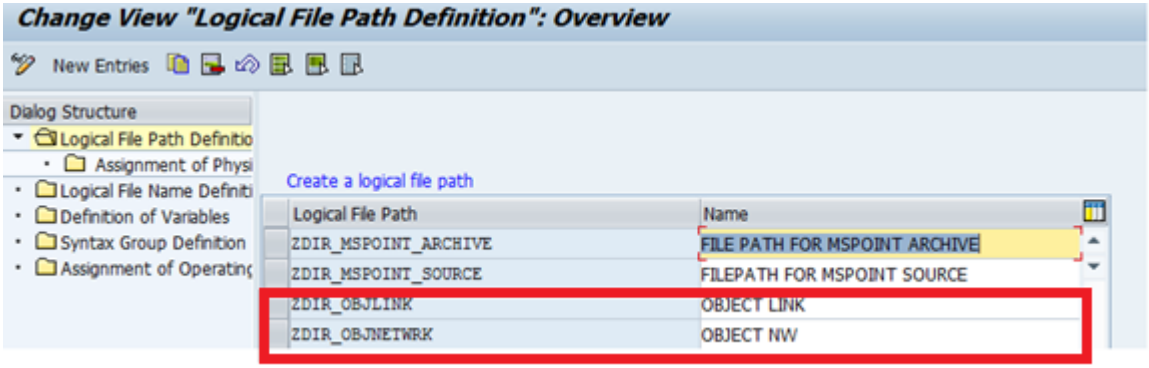
2. Click on Archive Path for Object types to maintain the archiving path of files used.



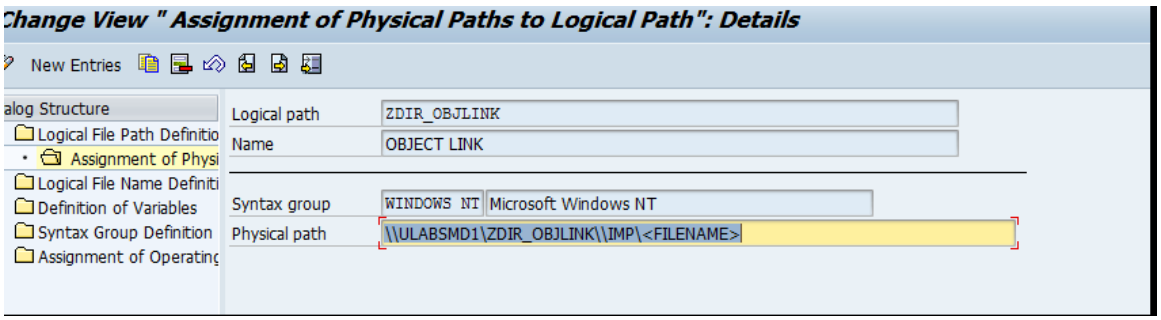
Defining Source and Logical Directories

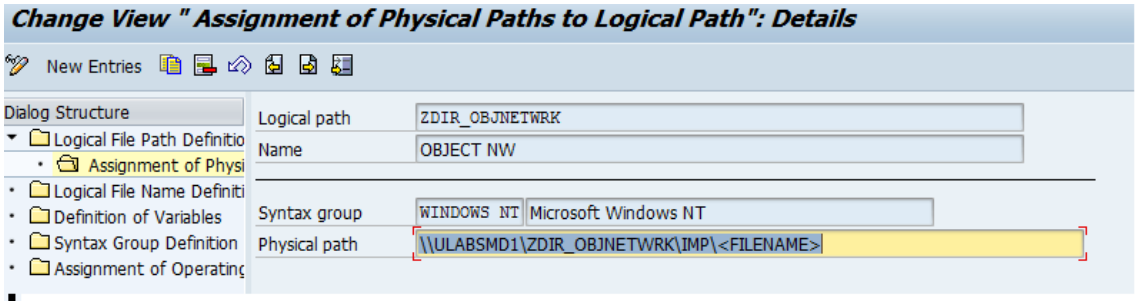
Use the following steps to assign physical and logical paths:

1. Open t-code FILE
2. Select node Logical File Path Definition > Click on “New Entries”
3. Create an entry for Object link and network files as shown in the following screen.



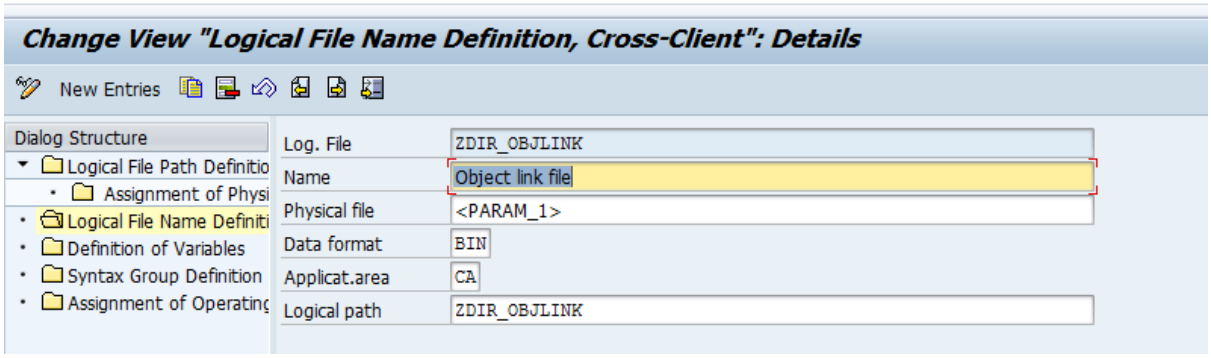
4. Save the entry and click on the sub-node “Assignment of Physical Paths to Logical Path”
5. Enter the details as displayed and the physical path should be the path which is created in AL11 for the Object links i.e. \\ULABSMD1\ZDIR_OBJLINK\\IMP\<FILENAME> followed by filename and Object Networks i.e. \\ULABSMD1\ZDIR_OBJNETWRK\IMP\<FILENAME>



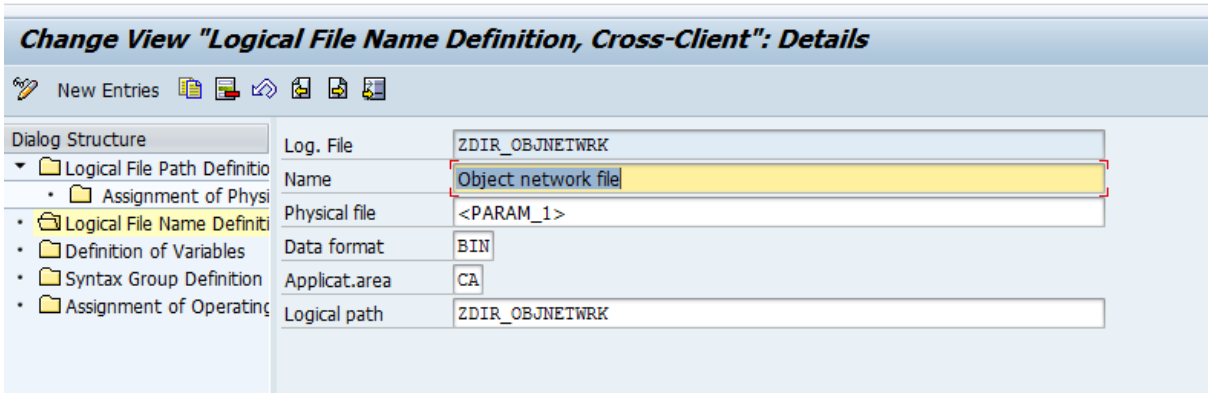


6. Save the entry.
7. Navigate to “Logical File Path Definition and click on node Logical File Name Definition, Cross-Client”
8. Click on New Entries and maintain the entries as displayed in the following screen:

   For Object Links:

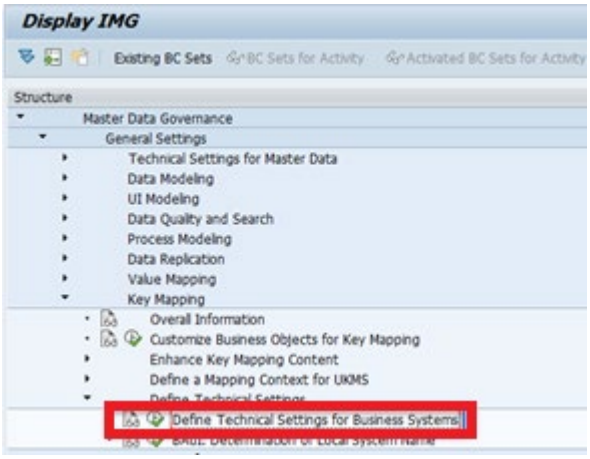


   For Object Networks.



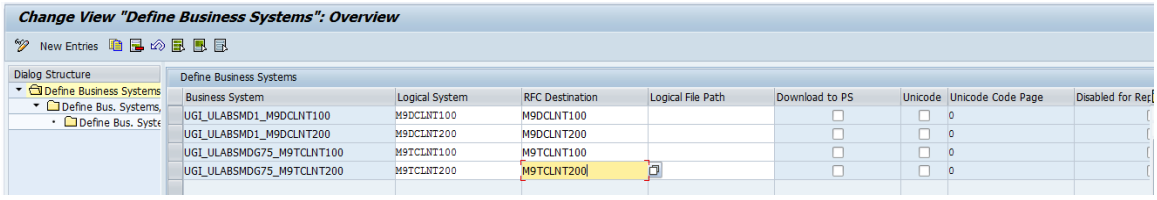
Define the Technical Settings for Business Systems

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

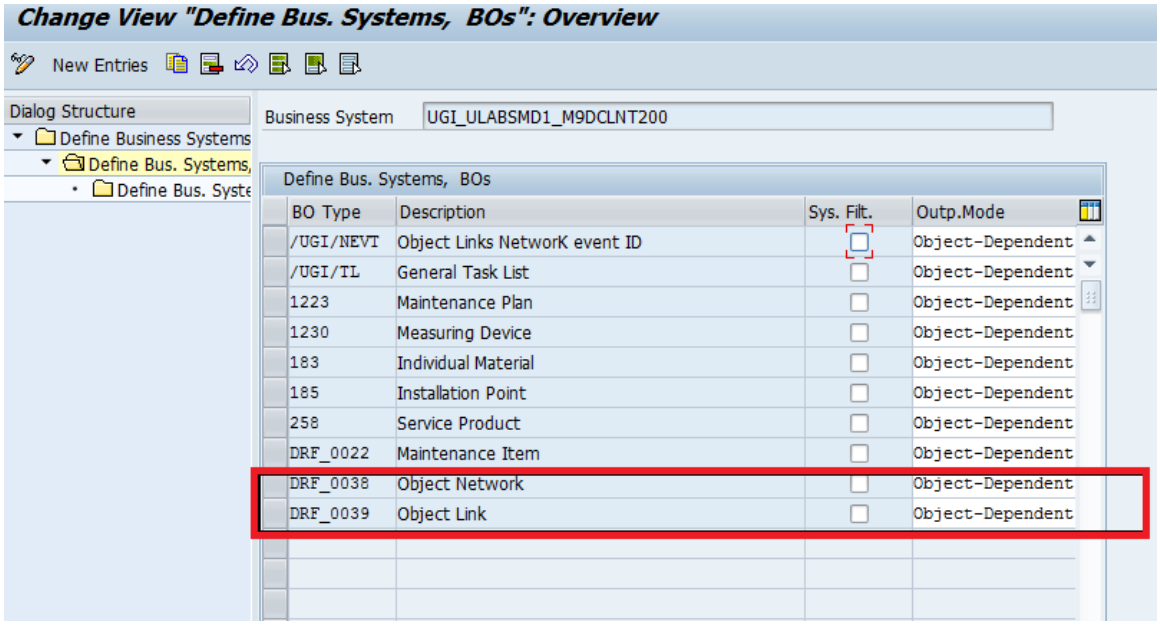


Use the following steps to define technical settings for Business Systems:

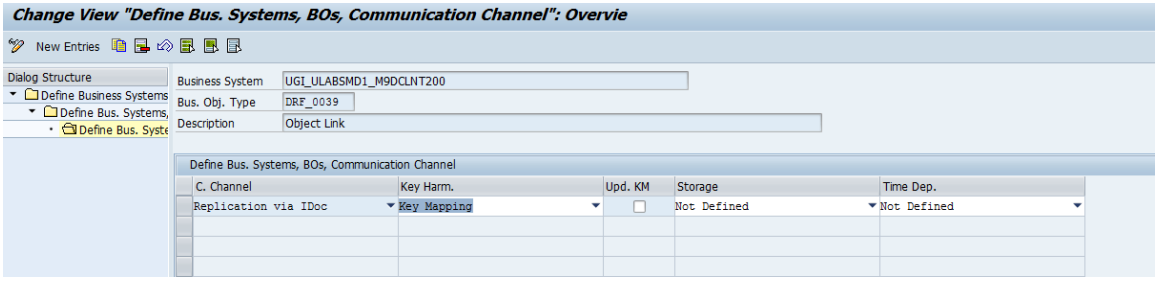
1. Define the Business System



2. Add the BO Types for the Business System:
   - BO Type DRF_0038 (Object Networks)
   - BO Type DRF_0039 (Object Links)



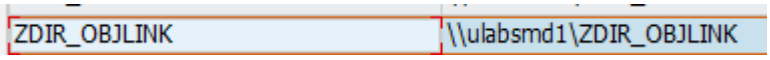
3. For Key Mapping scenarios, update the communication channel settings as explained in the following section:



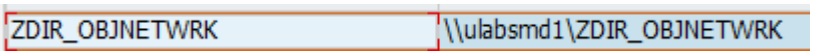
Test Scenario for DIF

Use the following steps for Test Scenario for DIF:

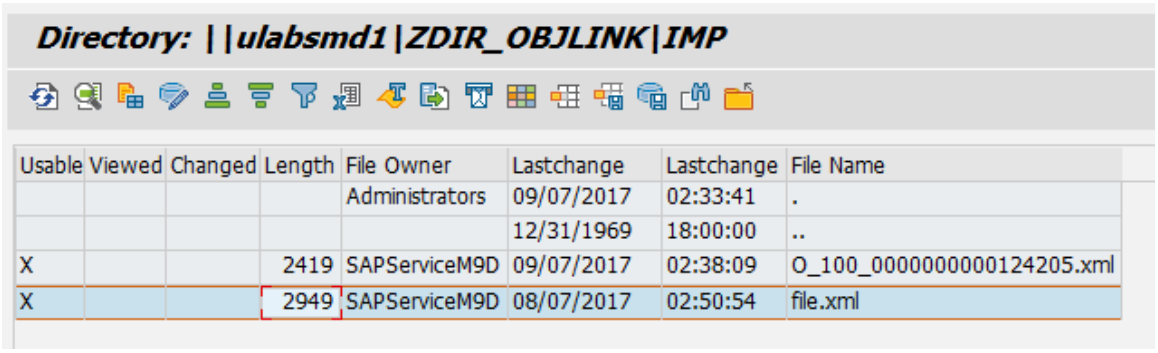
1. Download the XML file in your local machine.
2. Go to t-code AL11 and get the directory name for file.
   For Object Links.



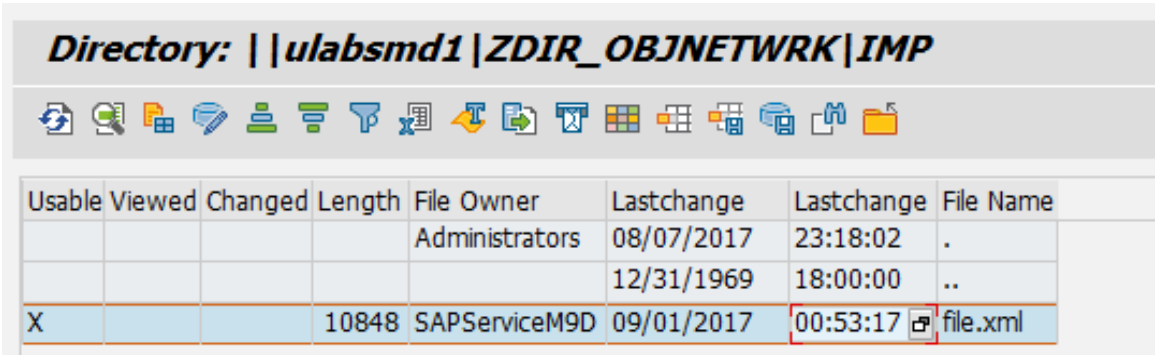
   For Object Networks



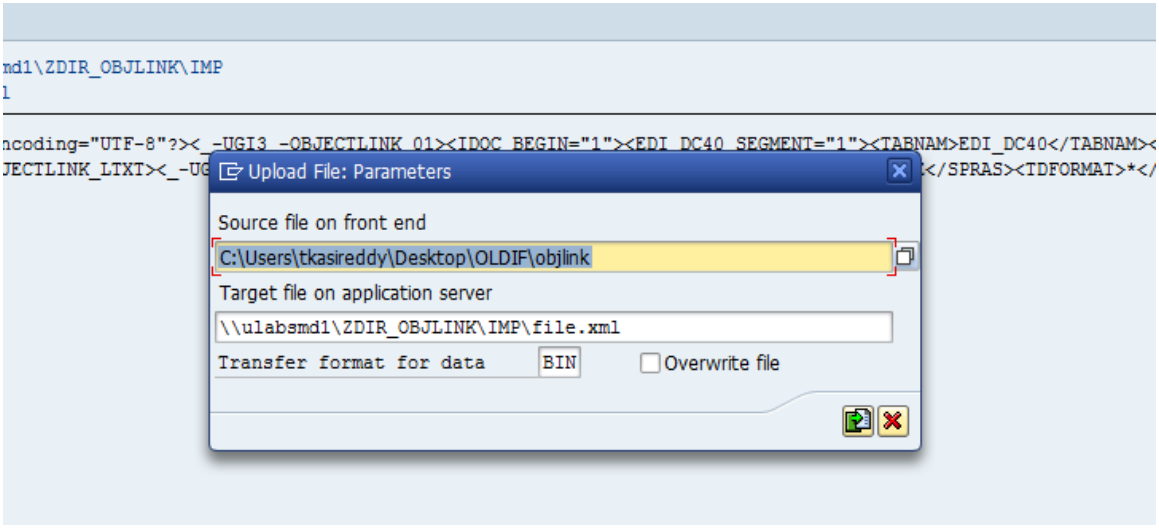
3. Open directory and get the file name to download.
   For Object Links.



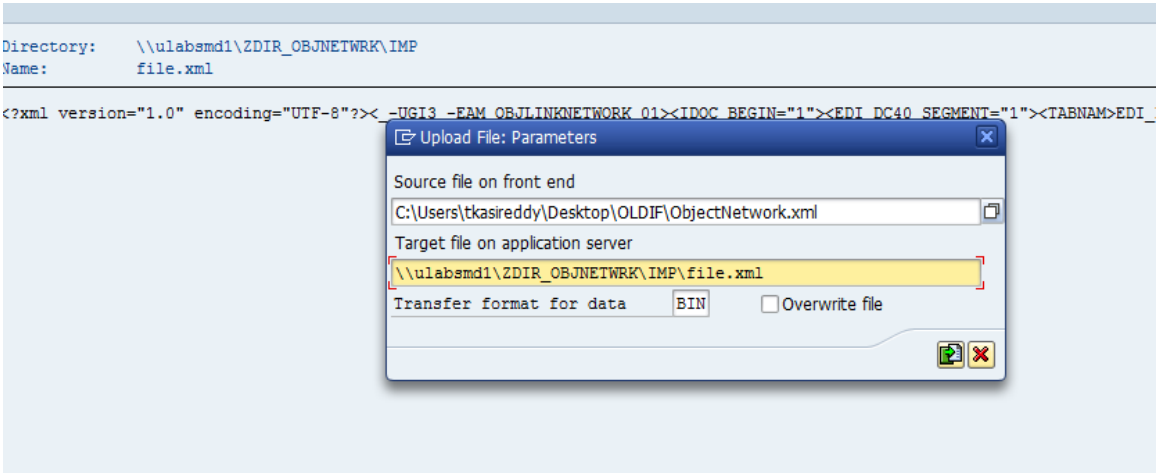
   For Object Networks.



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



For Object Networks.



5. Click on “Download” button to download the file in the specified location.

The following steps are required to run the DIF for Object Links/Object Networks:

You can run the DIF for Object Link/Object Network in Manual Processing/Defined by Change Request/Governance modes with/without Key Mapping.

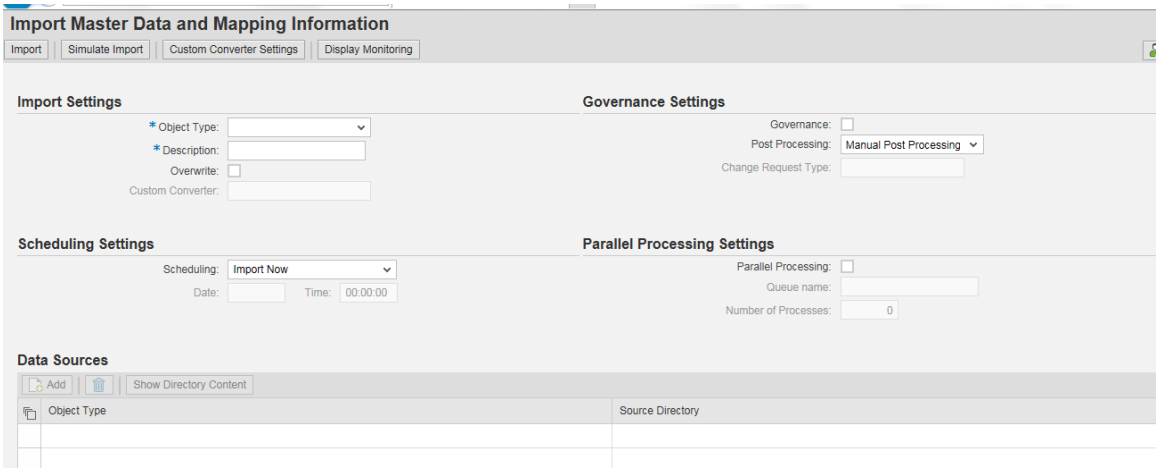
Use the following steps to test the DIF:

1. Received the enclosed IDoc XML files for DIF Import from client system: Refer Sample files enclosed below
2. Upload the file.
3. 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.

Data Import

Use the following steps to import data:

1. Navigate to the Data Exchange tab > Data Load > Import Master Data.

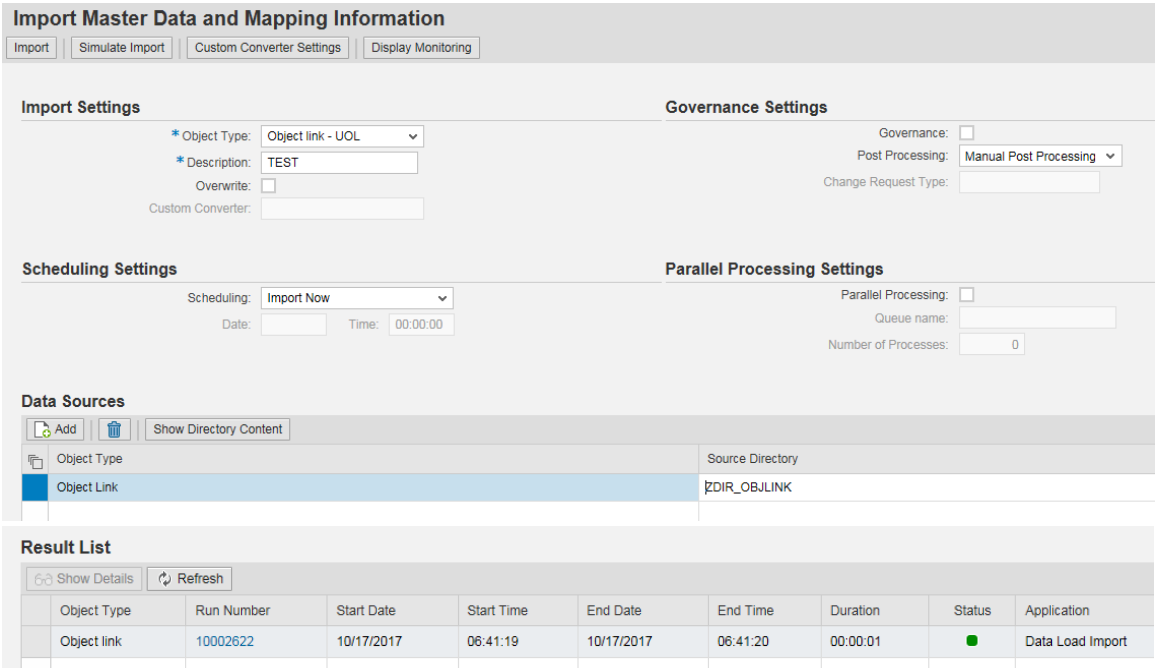


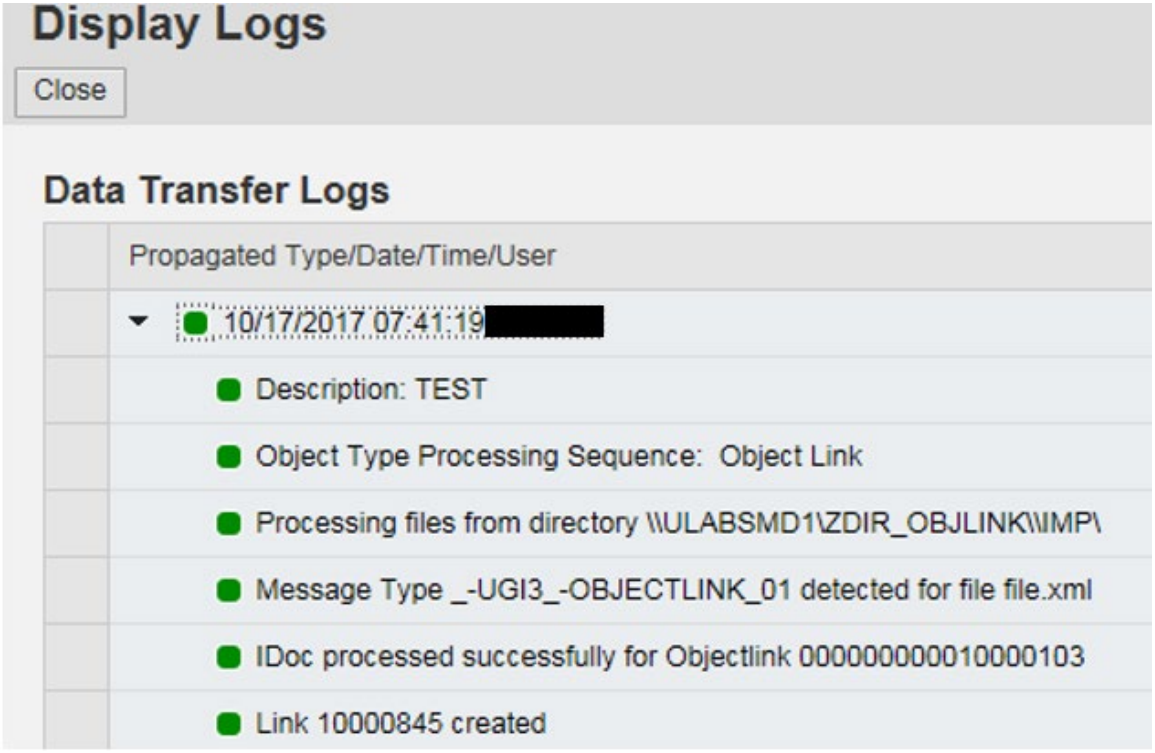
2. Scenario 1 – Manual Post Processing.
   a. Enter the following details in the new Data Import screen:
      - Object Type – UOL (Object Link) / UNW (Object Link Network)
      - Enter the Description
      - Select overwrite check box if you want the object to be overwritten
      - Select the Post Processing as Manual Post Processing
      - Data Sources – Add the relevant Object Type and Source Directory as shown below

   b. Click on “Import” button.

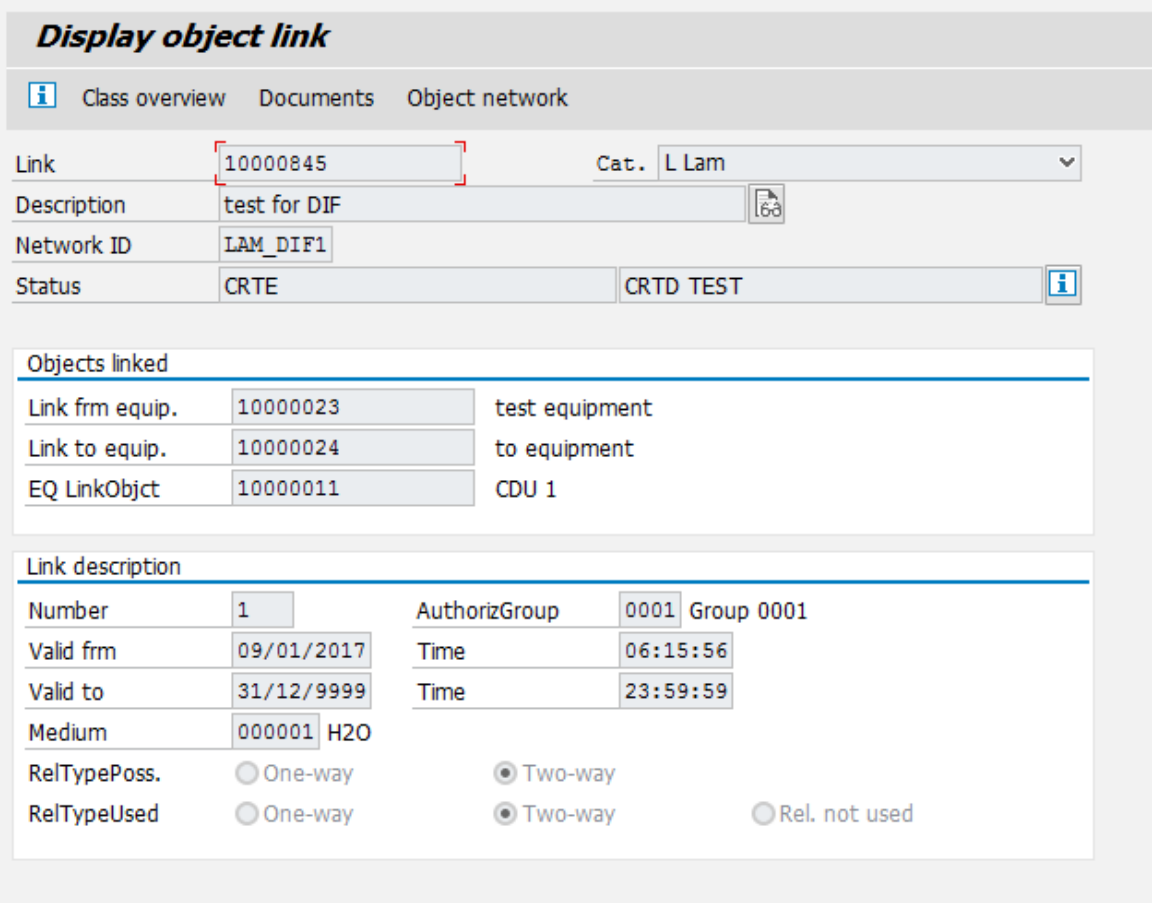
   c. Change Request is not created and data will be imported directly to active area

For Object Links:

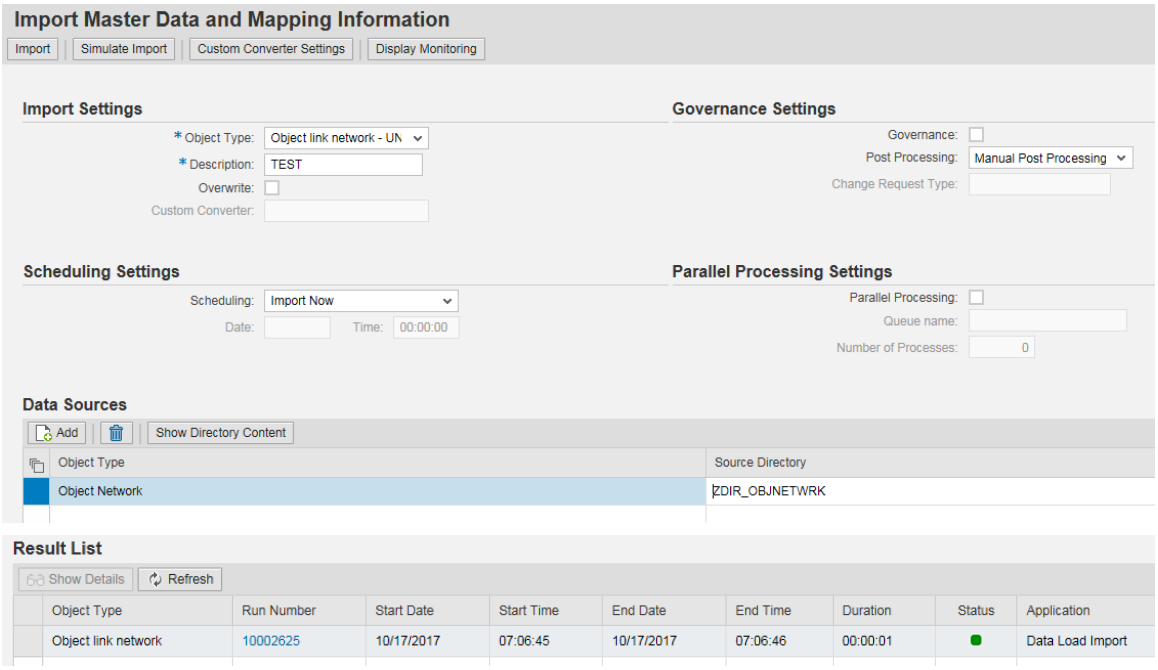


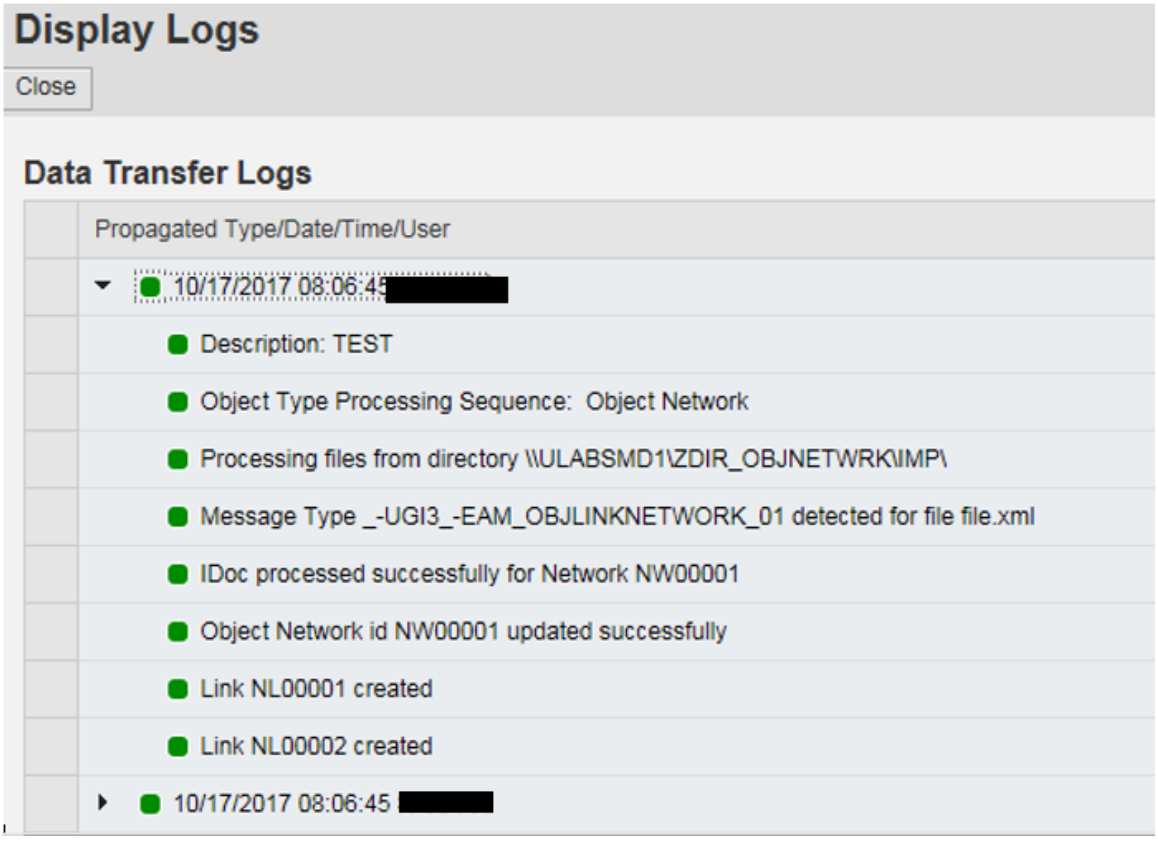


d. Enter the t-code IN03 to verify if Object Link is created.

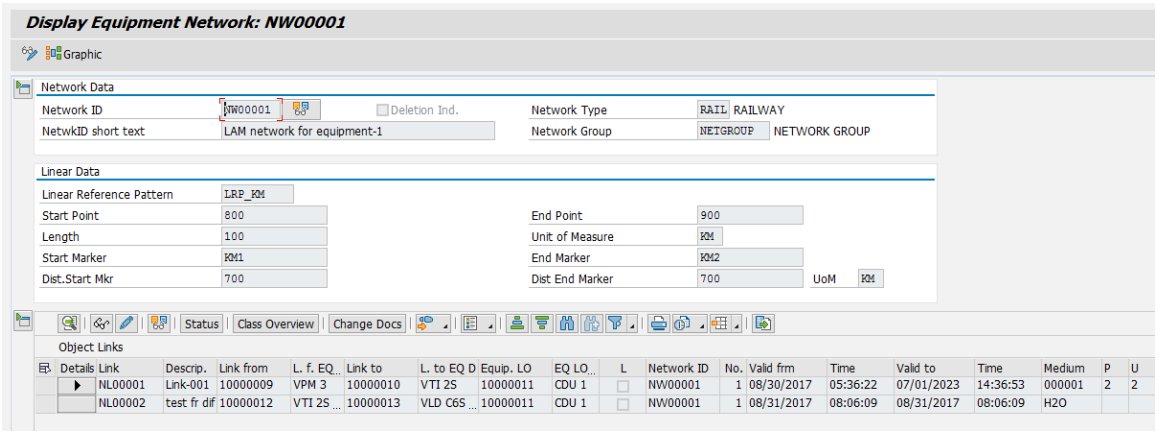


For Object Networks:



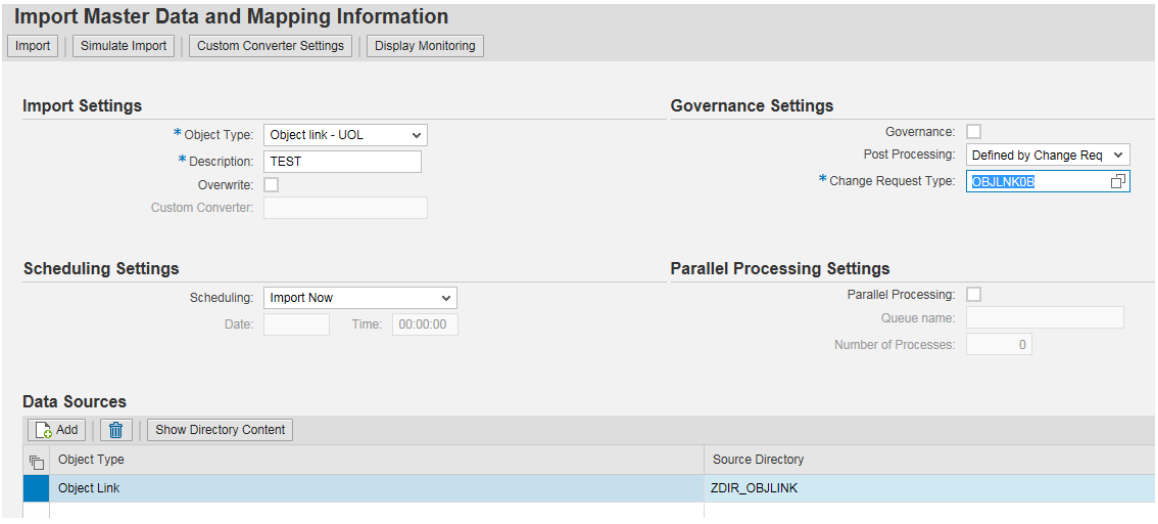


e. Enter the t-code IN23 to verify for both the Object Links and Network.



3. Scenario 2 – Defined by Change Request without governance
   a. Enter the following details in the new Data Import screen:
      - Object Type – UOL (Object Link) / UNW (Object Link Network)
      - Enter the Description
      - Select overwrite check box if you want the object to be overwritten
      - Select the Post Processing – Defined by Change Request
      - Choose the Change Request type as “OBJLNK0B (Import Object Links) / OBJNET0B (Import Object Networks)”
      - Data Sources – Add the relevant Object Type and Source Directory as shown below

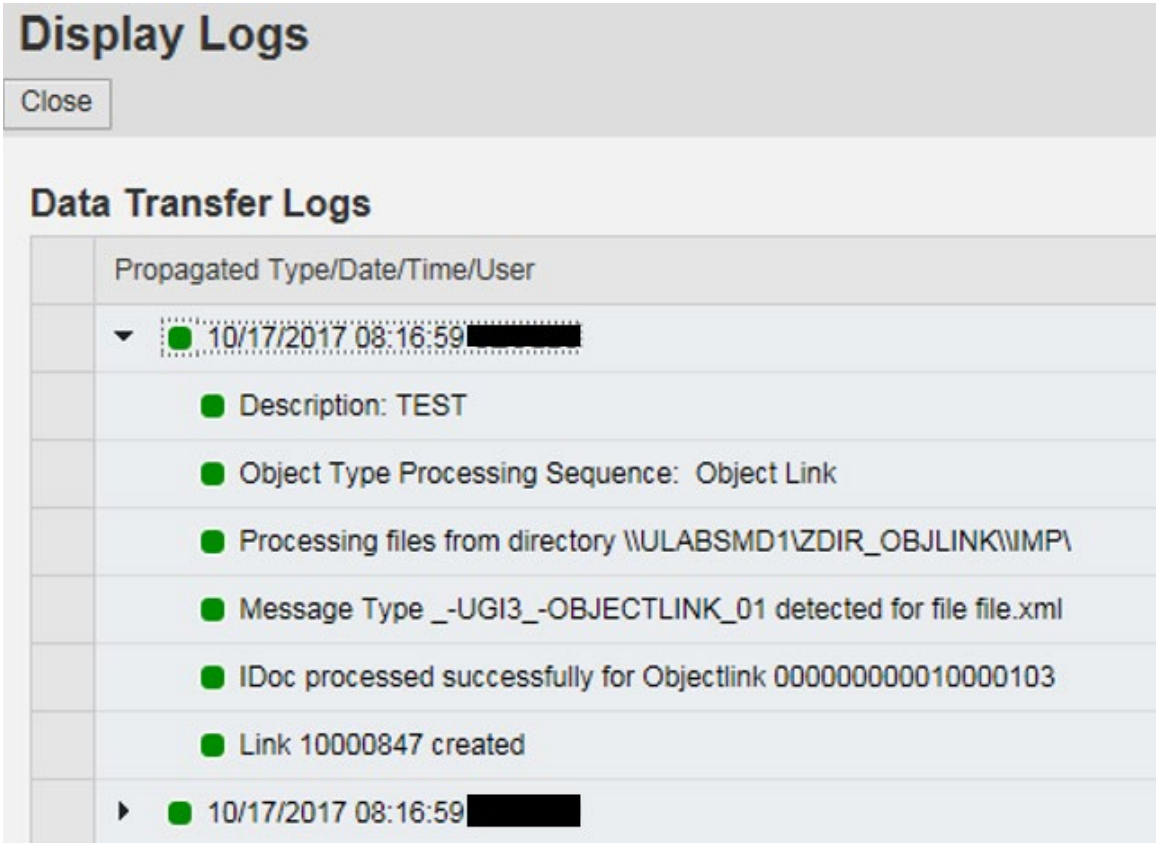
For Object Links:



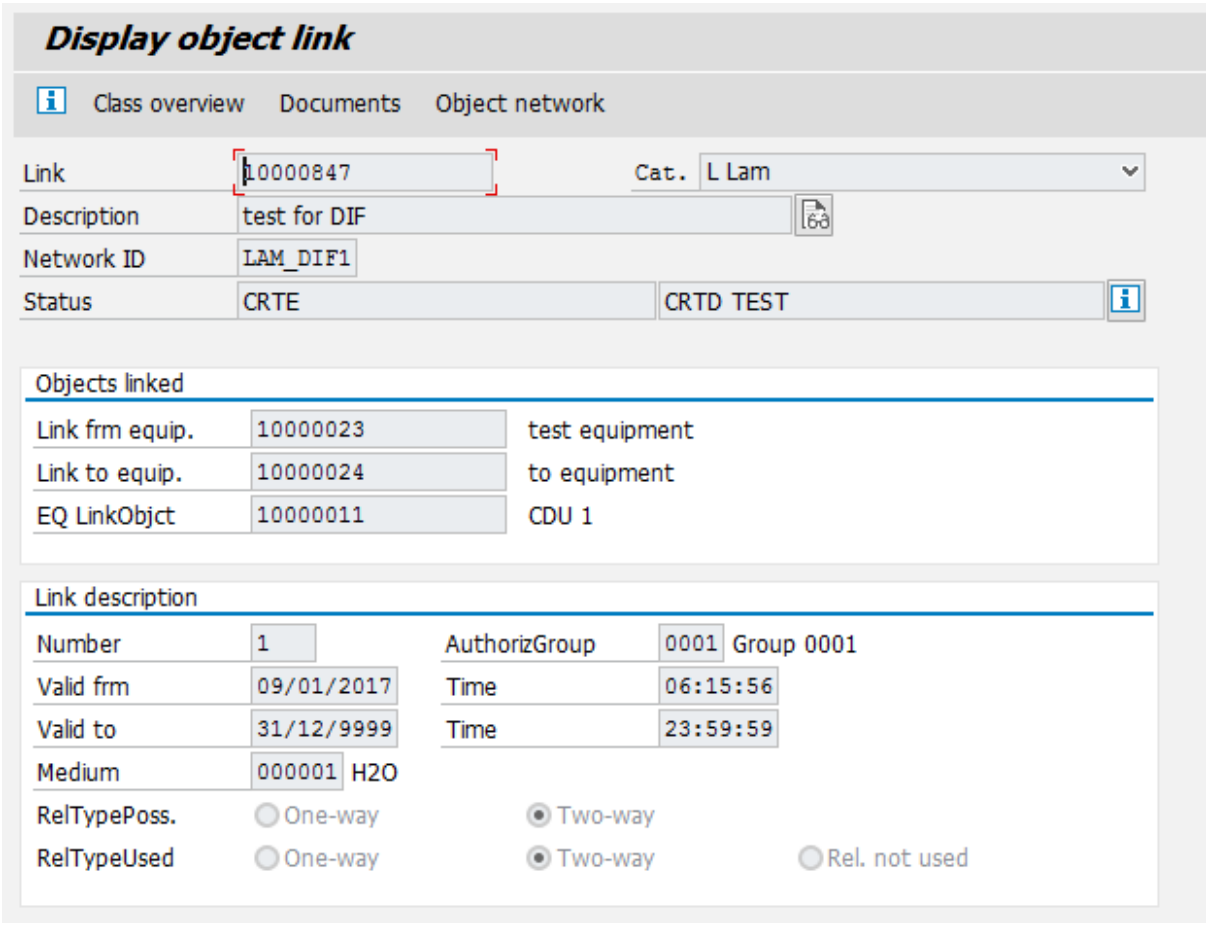
   b. Click on “Import” button.

   c. If there is no error data will be imported directly to active area. If any error occurs; a Change Request is created.

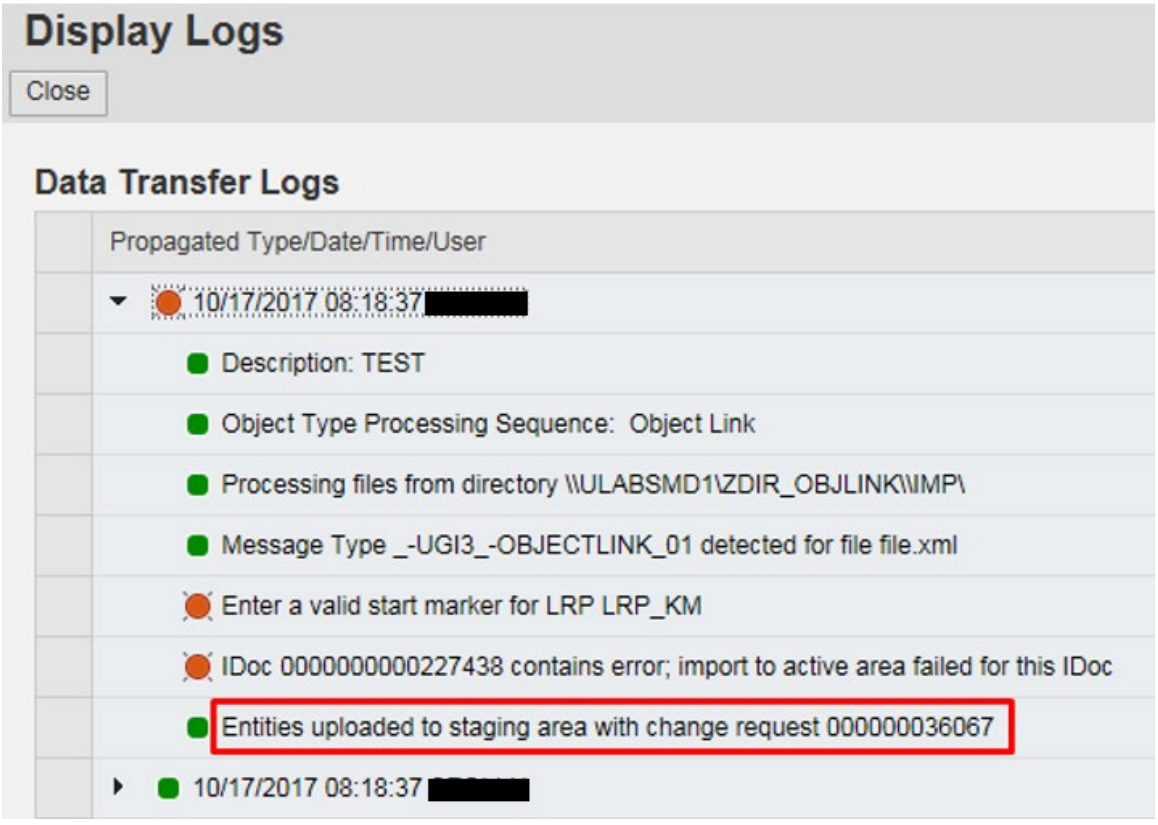
Object Link is created successfully in active area.



d. Enter the t-code IN03 to verify if Object Link is created.



File import with errors. Hence, a Change Request 36067 is created for errors processing



4. Scenario 3 - Defined by Change Request with governance.
    a. Enter the following details in the new Data Import screen:
        - Object type – UOL (Object Link) / UNW (Object Link Network)
        - Enter the description
        - Select overwrite check box if you want the object to be overwritten
        - Select the Post Processing – Defined by Change Request.
        - Select Governance Check box.
        - Choose the Change Request type as “OBJLNK0B (Import Object Links) / OBJNET0B (Import Object Networks)”
        - Data Sources – Add the relevant Object Type and Source Directory as shown below

    b. Click on “Import” button.

    c. If governance is selected, data is loaded into the staging area (a change request is created).

Sample Files:

1. Object Links and 2. Object Networks


OBJLINK.XML


OBJNET.XML