

# How-To Guide: DT Import (DIF) Doc for EAM Functional Location

## Applies To

MDG EAM Solutions by Utopia

## 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 Functional Location. 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 > Processes and Tools for Enterprise Applications > 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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**Created On:** October 22, 2019

**Version:** 1.0

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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

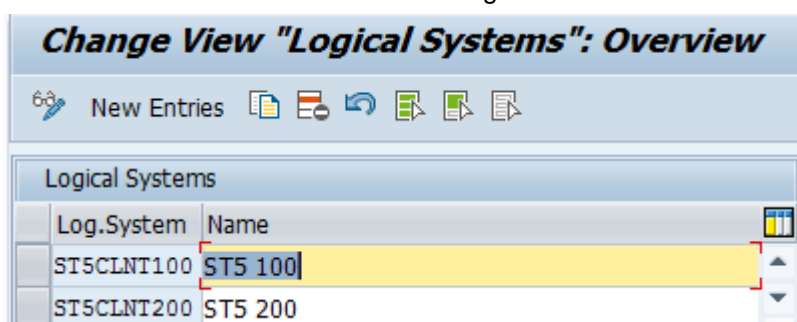
**Note:** The following configuration is required only when you want to generate XML file from IDOC.

This guide uses the system ST5 and its client 100 as Importing client and ST5 client 200 as exporting client. 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 t-code 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 S23 CLNT 100 as the source and S23 CLNT 200 as the target.





## 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 an RFC connection using Connection Type T (Start External Program Using TCP/IP) into the same client:

**RFC Destination LOCAL\_EXEC**

Connection Test    Unicode Test 

RFC Destination  

Connection Type  TCP/IP Connection    Description

Description

Description 1

Description 2

Description 3

Administration    **Technical Settings**    Logon & Security    Unicode    Special Options

Activation Type

Start on Application Server     Registered Server Program

Start on Explicit Host

Start on Front-End Work Station

Start on Application Server

Program

Start Type of External Program

Default Gateway Value

Remote Execution

Remote Shell

Secure Shell

## 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.
2. Create the single XML file type port for Functional Location.

Port	<input type="text" value="FL_XML"/>
Description	<input type="text" value="XML Port for Functional Location"/>
<b>XML format</b>	
<input type="radio"/> SAP Release 46 <input checked="" type="radio"/> Unicode	
Outbound file    Outbound: Trigger	
<input type="radio"/> Logical directory <input type="button" value="Access test"/>	
<input checked="" type="radio"/> physical directory	
Directory	<input type="text" value="/usr/sap/mdqdir/ZDIR_FLOC/"/>
Function module	<input type="text" value="EDI_PATH_CREATE_CLIENT_DOCNUM"/>
Description	Directory + file name in format T_Client_Docnum
Outbound file	<input type="text"/>

## Define Partner Profiles

Run the t-code WE20 > Locate the MDG Client ST5CLNT100 under tree node Partner Profile LS > Maintain the settings for following message types under outbound options tab.

- /UGI3/EAM\_FUNC\_LOC
- CLFMAS
- /UGI3/LAMCLF
- ADRMAS

**Partner profiles: Outbound parameters**

Partner No.  ST5 200  
 Partn.Type  Logical system  
 Partner Role

Message Type  EAM Functional Location  
 Message code   
 Message function   Test

Outbound Options | Message Control | Post Processing: Valid Processors | Tele...

Receiver port  Transactional RFC ST5 200  
 Pack. Size   
 Queue Processing

Output Mode  
 Pass IDoc Immediately Output Mode 2  
 Collect IDocs

IDoc Type  
 Basic type  EAM Functional Location  
 Extension   
 View   
 Cancel Processing After Syntax Error  
 Seg. release in IDoc type  Segment Appl. Rel.

## Define Object Types

Go to t-code MDGIMG > Master Data Governance > General Settings > Data Transfer > Select Node "Define Object Types for Data Transfer".

**Display IMG**

Existing BC Sets | BC Sets for Activity | Activated BC Sets for Activity | Release Notes | Change Log | Where Else Used

Structure

- Master Data Governance, Central Governance
  - General Settings
    - Technical Settings for Master Data
    - Data Modeling
    - UI Modeling
    - Data Quality and Search
    - Process Modeling
    - Data Replication
    - Value Mapping
    - Key Mapping
    - Data Transfer
      - Define Object Types for Data Transfer
      - Define File Source and Archive Directories for Data Transfer
      - Define File Converter Type for Data Import
      - BAdI: Creation of File Converter for Data Import

**Change View "Define Object types for Data Transfer": Overview**

New Entries | BC Set: Change Field Values

Obj. Type	Description	BO Type	Description
UACL	Classification for Enterprise Asset Management	DRF_0011	Classification (ERP/ALE)
UADR	Address Data For EAM Object	MDG_ADDR	Address
UFLC	Function Location	185	Installation Point
UFLM	Lam classification data for Functional Location	/UGI/LAM	

Use the following steps to set the Data Import Framework.

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

**Display View "Detailed information for Object types": Overview**

Object Type: UFLC

Message Data Type	Namespace	Import Class	Converter Class	Act. Con.	Act. Imp.
_UGI3/EAM_FUNC_LOC01		/UGI/CL_MDG_EAM_FILELOADER		<input type="checkbox"/>	<input checked="" type="checkbox"/>
__UGI3__EAM_FUNC_LOC01		/UGI/CL_MDG_EAM_FILELOADER		<input type="checkbox"/>	<input checked="" type="checkbox"/>
__UGI3__EAM_FUNC_LOC02		/UGI/CL_MDG_EAM_FILELOADER		<input type="checkbox"/>	<input checked="" type="checkbox"/>
__UGI3__EAM_FUNC_LOC03		/UGI/CL_MDG_EAM_FILELOADER		<input type="checkbox"/>	<input checked="" type="checkbox"/>
__UGI3__EAM_FUNC_LOC04		/UGI/CL_MDG_EAM_FILELOADER		<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Display View "Detailed information for Object types": Details**

Object Type: UFLC

Msg. Data Type: \_\_UGI3\_\_EAM\_FUNC\_LOC04

Detailed information for Object types

Msg. Data Type: \_\_UGI3\_\_EAM\_FUNC\_LOC04

Namespace:

Import Class: /UGI/CL\_MDG\_EAM\_FILELOADER

Conv. Class:

Active Conv.

Active Import

**Note:** It is mandatory to click the checkbox for "Active Import" to enable Data Import framework.

3. Maintain Object List for Data Import.

**Display View "Object List": Overview**

Object Type: UFLC

Obj. List	Seq.
UACL	2
UADR	4
UFLC	1
UFLM	3

## 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.

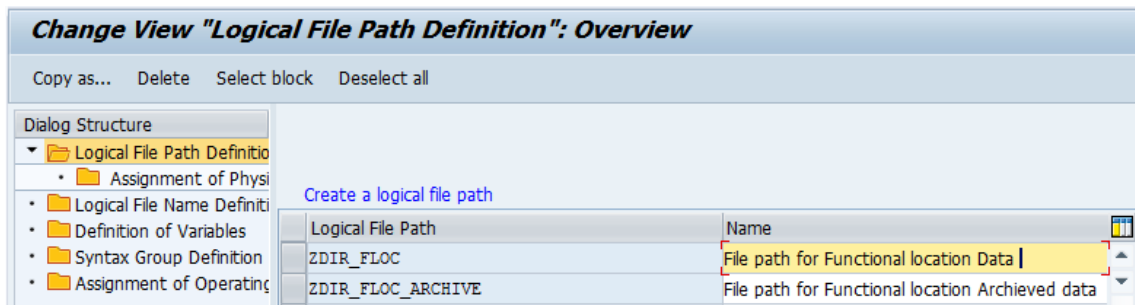
The logical file name and the logical path should be maintained to get an appropriate physical file name and physical path name.

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

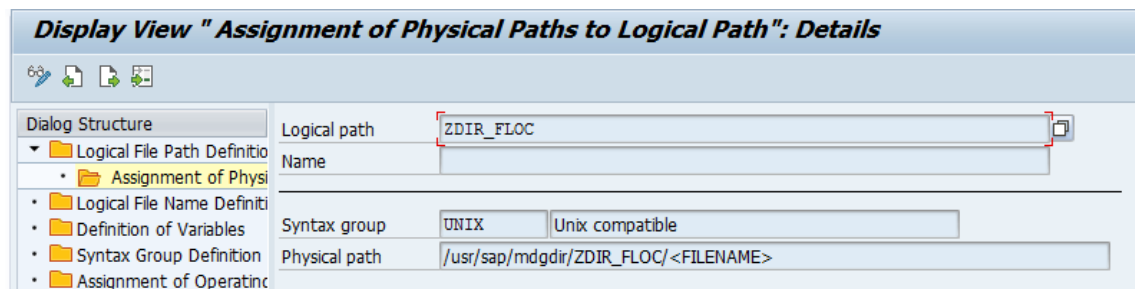
1. Define a Logical Path Name: First determine the target directory in which you want to create the archive files of a certain archiving object. The physical name of this directory is stored in a logical path name.
2. Define a Logical File Name: After creating the logical path name, you need to create 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:

ZDIR_FLOC	/usr/sap/mdgdir/ZDIR_FLOC
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6. Run the t-code FILE to map directory path to logical names.

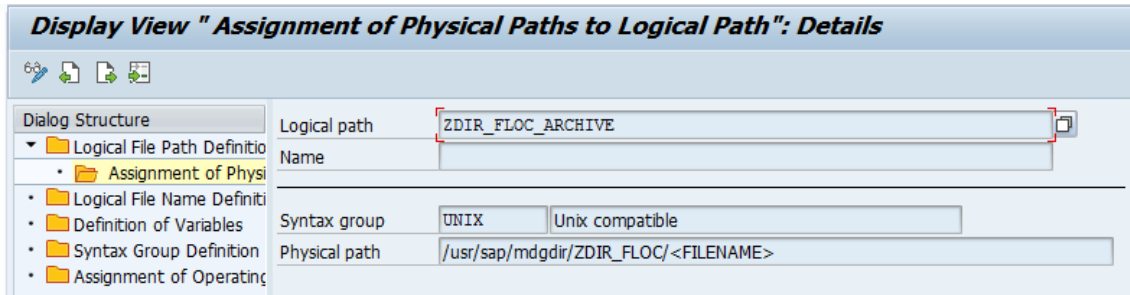


7. Assign physical path for ZDIR\_FLOC.



8. Assign physical path for ZDIR\_FLOC\_ARCHIVE.

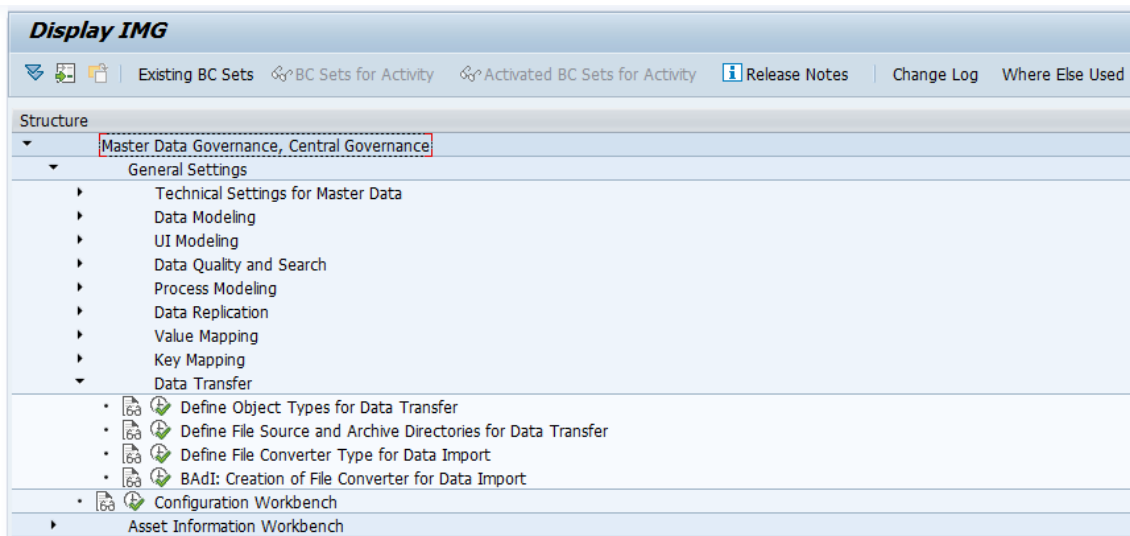




## Defining Source and Logical Directories

Use the following steps to define source and logical directories:

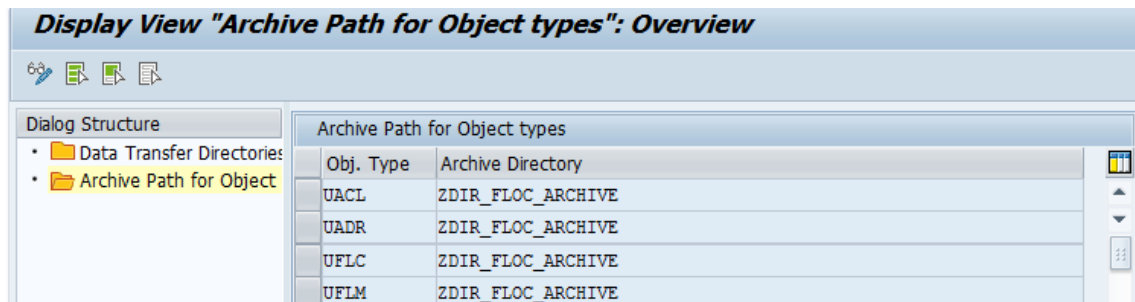
1. Go to t-code MDGIMG > Master data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.



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



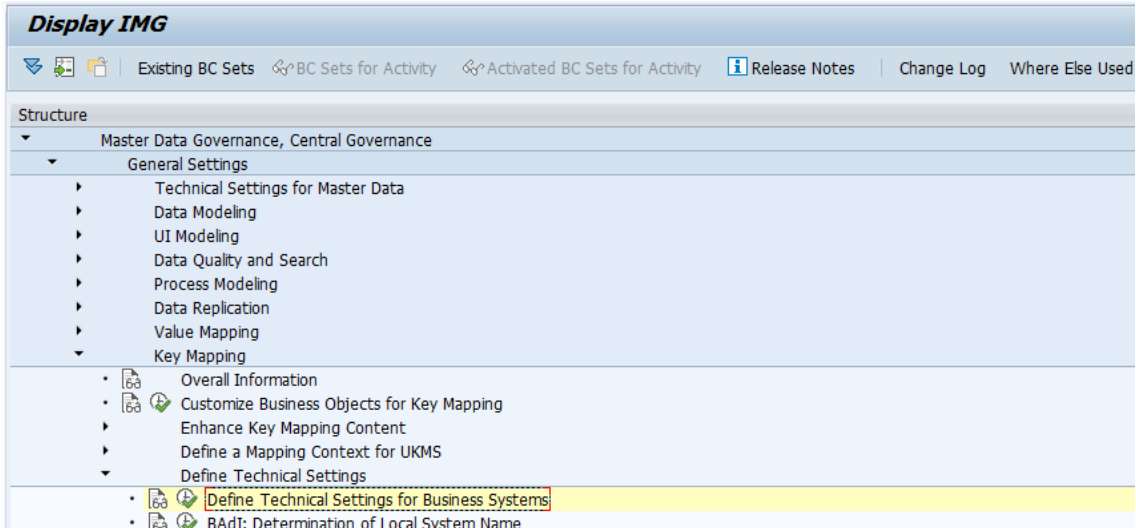
2. Click on Archive Path Object Types to maintain the archiving path of files used.



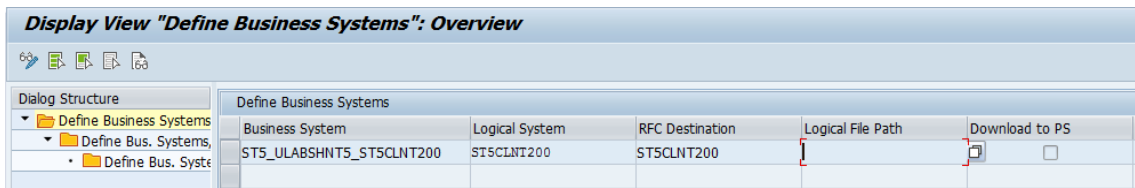
# Define the Technical Settings for Business Systems

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

1. Run t-code MDGIMG->Master Data Governance > General settings > Key Mapping > Define Technical Settings > Define Technical Settings for Business Systems.

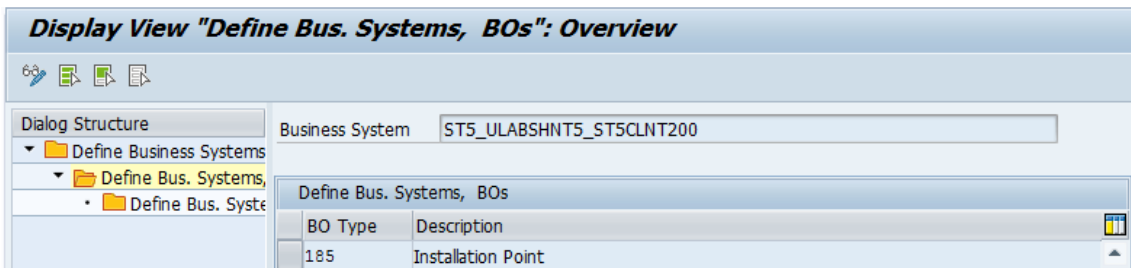


2. Define the Business system.

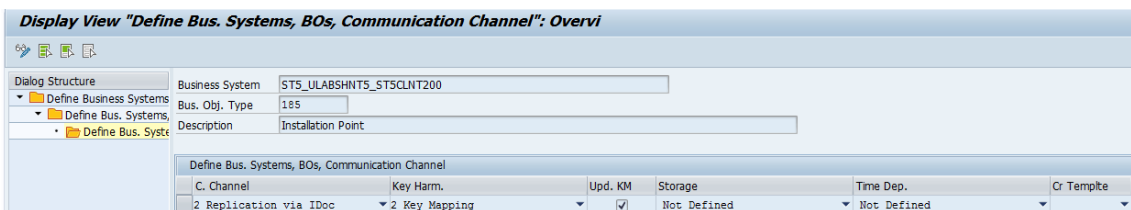


3. Add the Functional Location BO Type for the business system:

- BO Types 185 (Functional Location)



4. For Harmonized scenarios, update the Communication Channel settings as explained in the following section:



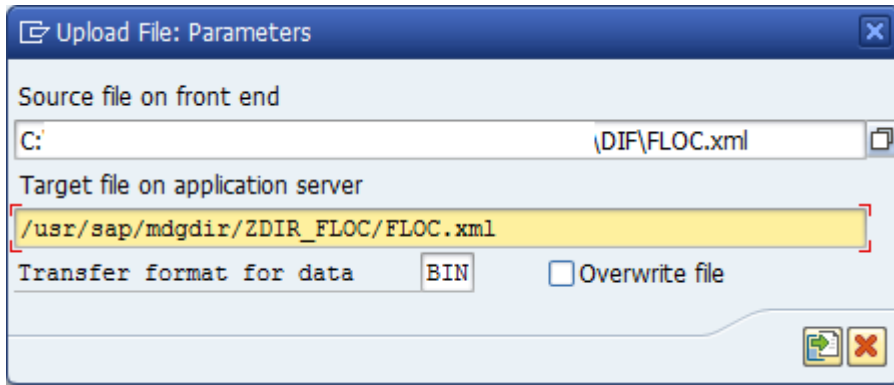
## Test Scenario for DIF - Functional Location

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.



3. Open the directory and check if we can remove the unwanted files
4. Go to t-code CG3Z to upload the xml file. Enter the source file name and the target file name.
5. Click on Overwrite checkbox, to overwrite if file exist with same name.



6. Click on "Upload" button to upload the file in the specified location.

**Note:** Generation/Preparation of XML files in required format is at customer discretion

7. Check the AL11 directory for files.

**Directory /usr/sap/mdgdir/ZDIR\_FLOC**

Usable	View...	Chang...	Leng...	Owner	Lastchange	Lastchange	File Name
		X	87	st5adm	11.09.2018	15:08:27	.
			4096	st5adm	11.09.2018	02:14:10	..
X			12469	st5adm	11.09.2018	15:07:34	FLOC.xml
X			5069	st5adm	11.09.2018	15:08:27	FLOC_ADDR.xml
X			1763	st5adm	11.09.2018	15:07:47	FLOC_CLS.xml
X			1106	st5adm	11.09.2018	15:08:00	FLOC_CLS_LAM.xml

Sample XML files are attached.



**Note:** The FLOC.xml files provided as sample is generated from system where Alternative label is active. When Alternative Label is active, Key mapping is mandatory for DRF for functional Location. as per the File - Floc "A000000000000000000000000000000004" has Internal value ?0100000000000000150 and same Internal number has been populated in all of other xml files.

This Floc A000000000000000000000000000000000004 has superior floc attached and its key mapped accordingly.

After execution of DTIMPORT, new FLOC " A000000000000000000000000000000000004" gets created in system along with key mapping between ?0100000000000000150 and new internal number from importing system where floc is created.

You can upload all the dependent entity data such as Address, Classification, LAM classification at one shot or one after other (with overwrite mode) .

In our example, you have uploaded all the four xml files at shot with Manual processing option.

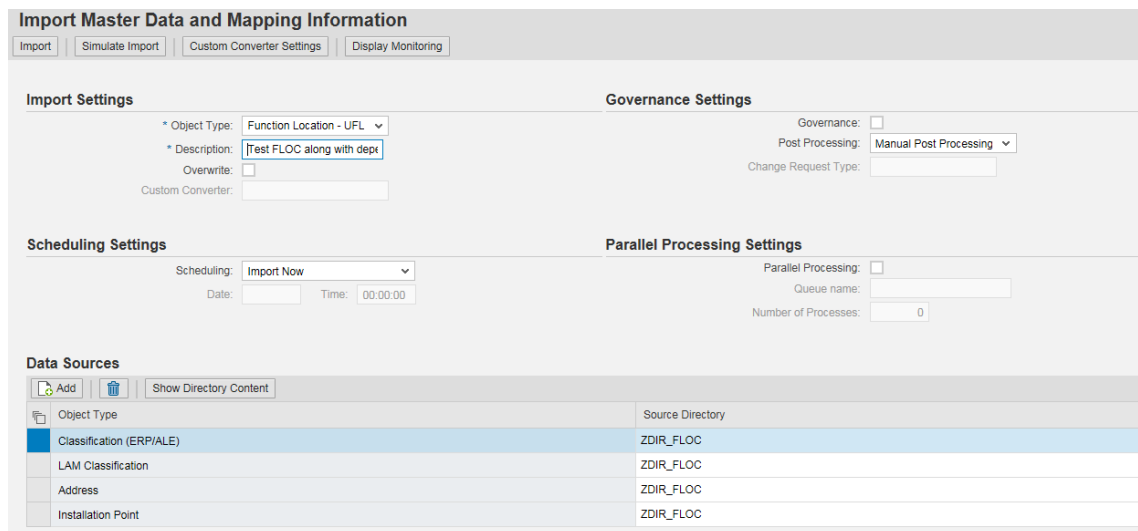
In case of Defined by Change Request without Governance, system creates data in backend unless there is an error then it creates a CR with data.

In case of Defined by change request + Governance - System puts the same data into a CR which can go through several steps of approvals based on customer requirement.

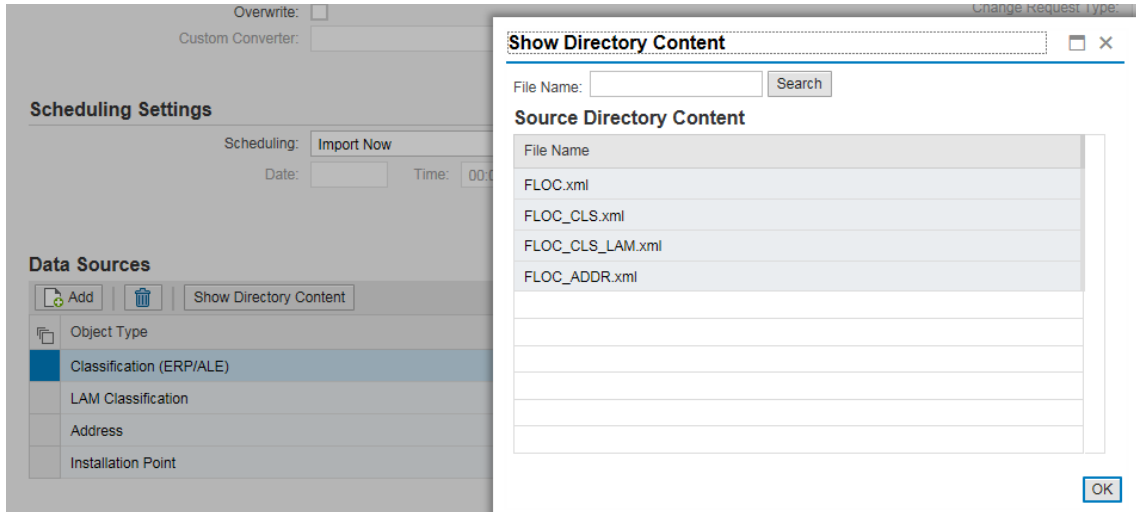
## Data Import

Use the following steps to import data:

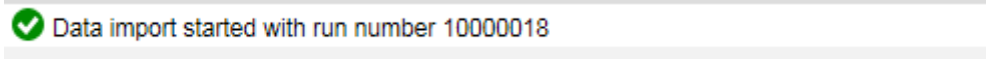
1. Navigate to the Data Exchange tab > Data load > Import Master data/Run t-code DTIMPORT.
2. Scenario 1- Manual Post Processing.
  - a. Enter the following details in the new Data Import screen.
    - Object type – UFLC
    - Enter the Description
    - Select overwrite checkbox if you want the object to be overwritten
    - Select the Post Processing as Manual Post Processing
    - Data Sources – Add the Object Type “Installation Point” and source directory ZDIR\_FLOC



Object Type	Source Directory
Classification (ERP/ALE)	ZDIR_FLOC
LAM Classification	ZDIR_FLOC
Address	ZDIR_FLOC
Installation Point	ZDIR_FLOC



b. Click on "Import" button.



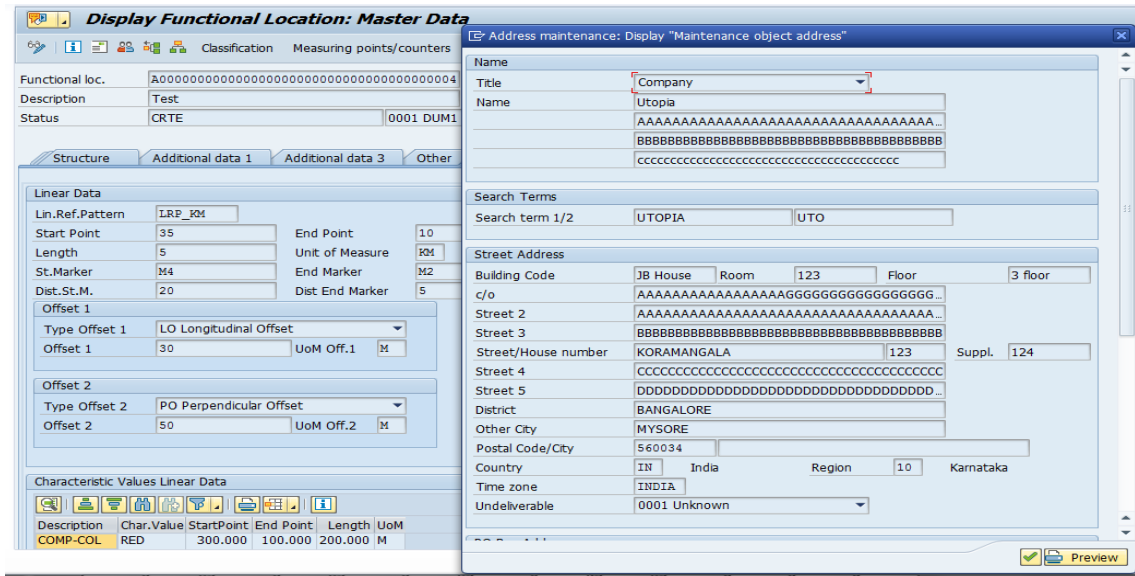
c. Click on "Display Monitoring" button to check the import log.

d. Click on Run number to see Details log.

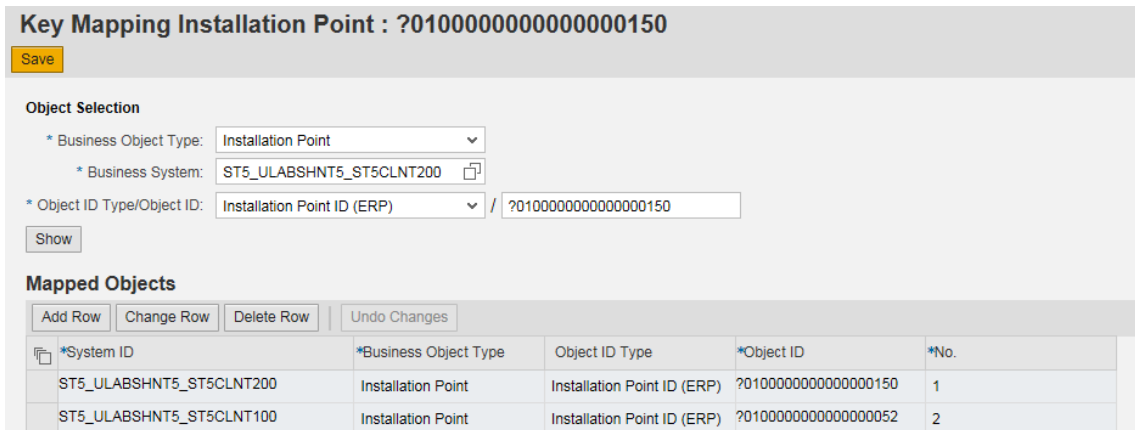


e. Enter the t-code IL03 if Functional Location is created.





**Note:** After successful execution of DTIMPORT for the files provided, validate if key mapping is created accordingly.



3. Scenario 2 - Defined by Change Request without governance.

a. Enter the following details in the new Data Import screen:

- Object type – UFLC
- Provide mandatory description
- Select overwrite checkbox if you want the object to be overwritten
- Select the Post Processing – Defined by Change Request
- Select the Change Request type “FUNCLO0B”
- Data Sources – Add the Object Type “Installation Point” and source directory ZDIR\_FLOC

Data will be posted directly to backend if there are no errors found, otherwise systems puts data into Change request.

4. Scenario 3- Defined by Change Request with governance.

a. Enter the following details in the new Data Import screen:

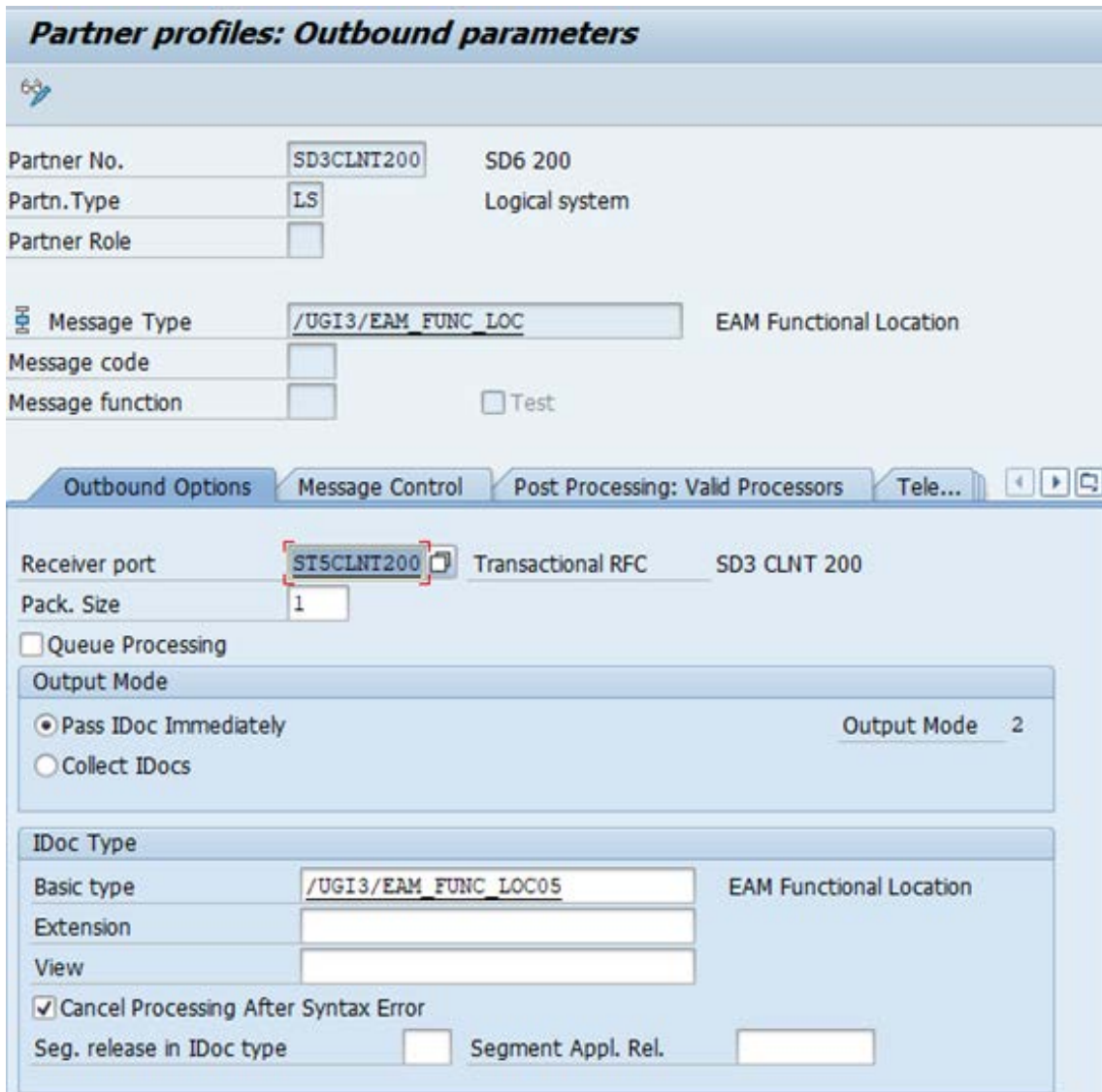
- Object Type – UFLC
- Provide mandatory description
- Choose overwrite checkbox if you want the object to be overwritten

- Select the Governance check box
- Select the Post Processing – Defined by Change Request
- Choose the change request type “FUNCLOOB”
- Data Sources – Add the Object Type “Installation Point” and source directory ZDIR\_FLOC

The system uploads the data from xml to respective CR and it will be available for further approvals as per the company norms.

## Additional Changes as part of EAM 1909

1. Configure New Basic type /UGI3/EAM\_FUNC\_LOC05 via WE20 .



**Partner profiles: Outbound parameters**

Partner No. SD3CLNT200 SD6 200  
 Partn. Type LS Logical system  
 Partner Role

Message Type /UGI3/EAM\_FUNC\_LOC EAM Functional Location  
 Message code   
 Message function   Test

Outbound Options | Message Control | Post Processing: Valid Processors | Tele...

Receiver port ST5CLNT200 Transactional RFC SD3 CLNT 200  
 Pack. Size 1  
 Queue Processing

Output Mode  
 Pass IDoc Immediately Output Mode 2  
 Collect IDocs

IDoc Type  
 Basic type /UGI3/EAM\_FUNC\_LOC05 EAM Functional Location  
 Extension   
 View   
 Cancel Processing After Syntax Error  
 Seg. release in IDoc type  Segment Appl. Rel.

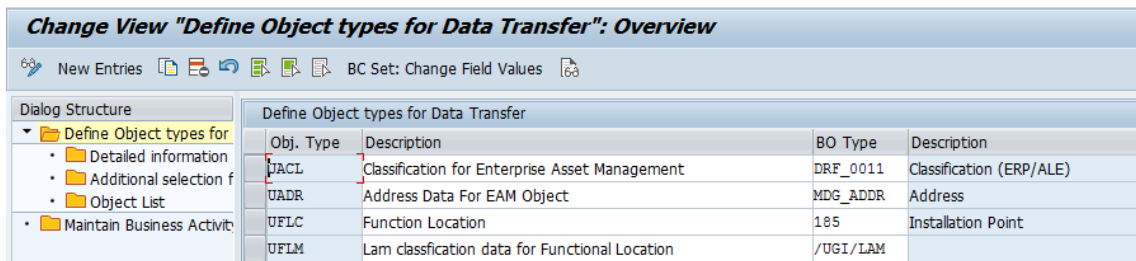
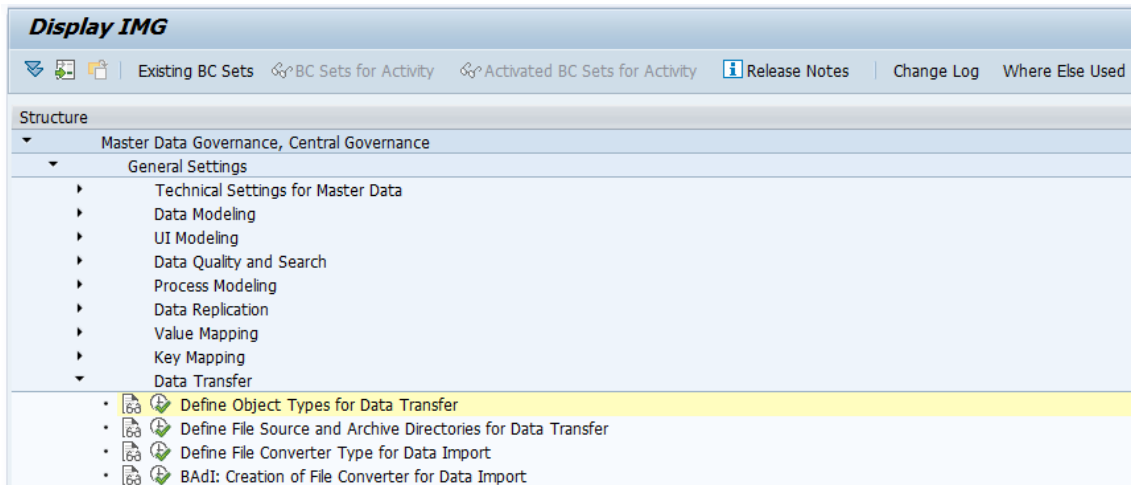
Note: Basic type /UGI3/EAM\_FUNC\_LOC05 has the additional segment for Functional Location - Alternative labels.

2. Add an additional Message type /UGI3/EAM\_FUNC\_LOC05 for File import.

Use the below steps to add an additional Message type to be recognized for file import.

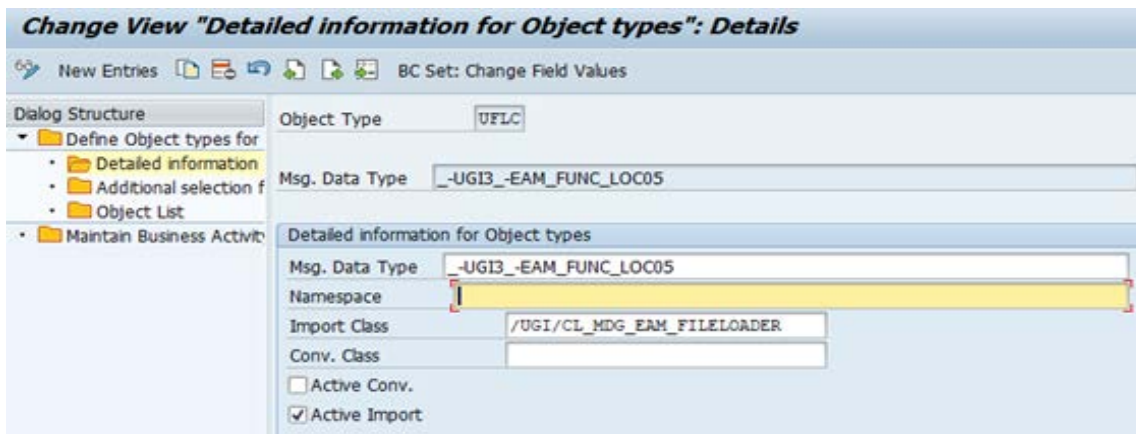
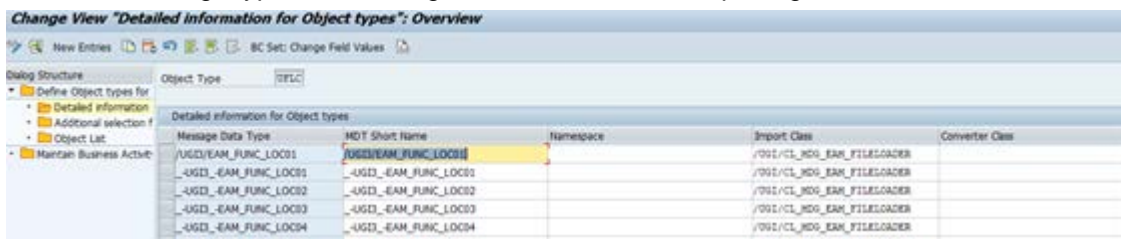


Go to t-code MDGIMG > Master Data Governance > General Settings > Data Transfer > Select Node “Define Object Types for Data Transfer”.



Use the following steps to set the Data Import Framework.

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



**Note:** It is mandatory to click the checkbox for “Active Import” to enable Data Import framework.