

# How-To Guide: DT Import (DIF) Doc for EAM Measuring Point

## 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 Measuring Point. 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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## 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

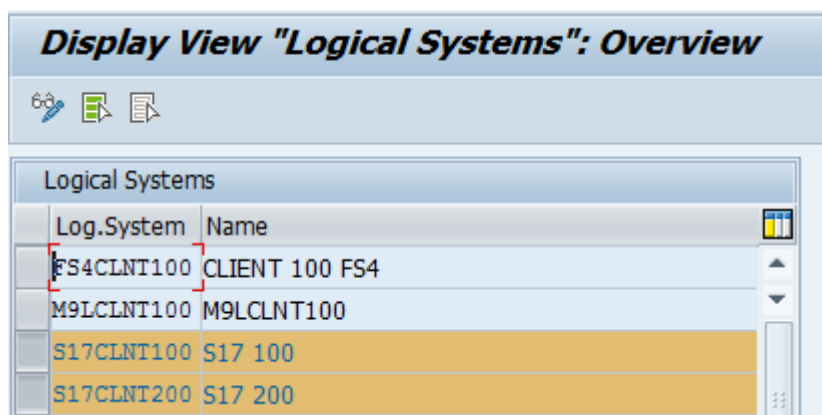
**Note:** The following configuration is required only when you want to generate XML file from IDOC.

This guide uses the system S17 and its client 100 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.  
The Logical System names used throughout this example is MDG System S17 CLNT 100 as the source and S17 CLNT 200 as the target.



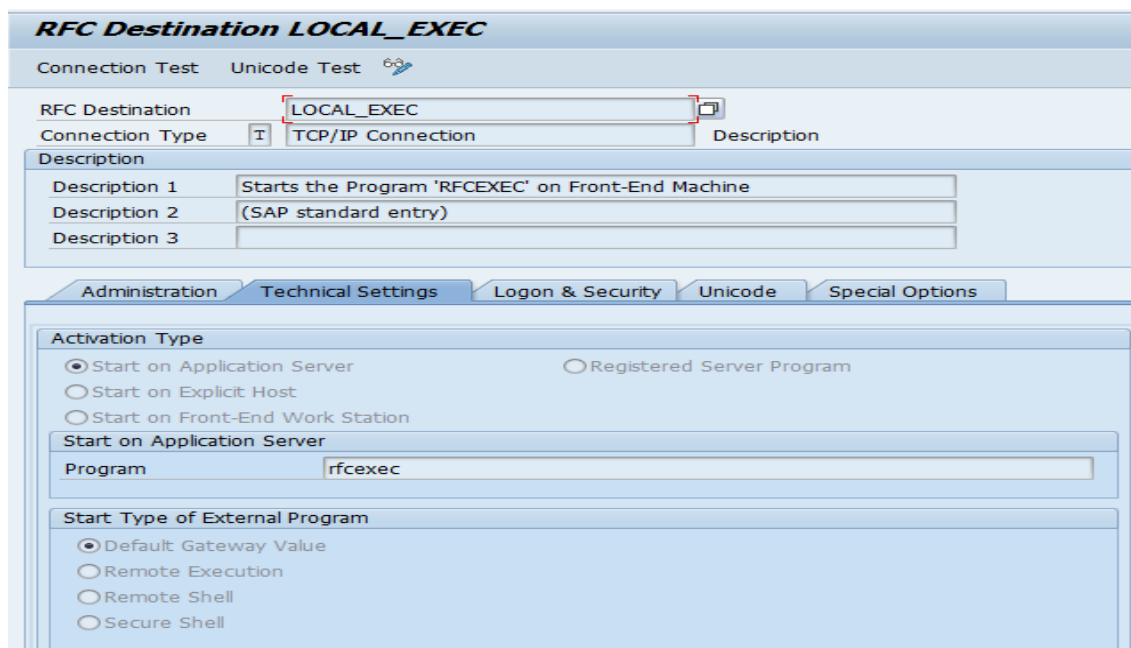
The screenshot shows the SAP Display View 'Logical Systems': Overview. It features a table with the following data:

Log.System	Name
FS4CLNT100	CLIENT 100 FS4
M9LCLNT100	M9LCLNT100
S17CLNT100	S17 100
S17CLNT200	S17 200

## Define an RFC Connection

Use the following steps to define the RFC connection:

1. Run the transaction 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: LOCAL\_EXEC

Connection Type: T TCP/IP Connection

Description:

- Description 1: Starts the Program 'RFCEXEC' on Front-End Machine
- Description 2: (SAP standard entry)
- 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: rfcexec

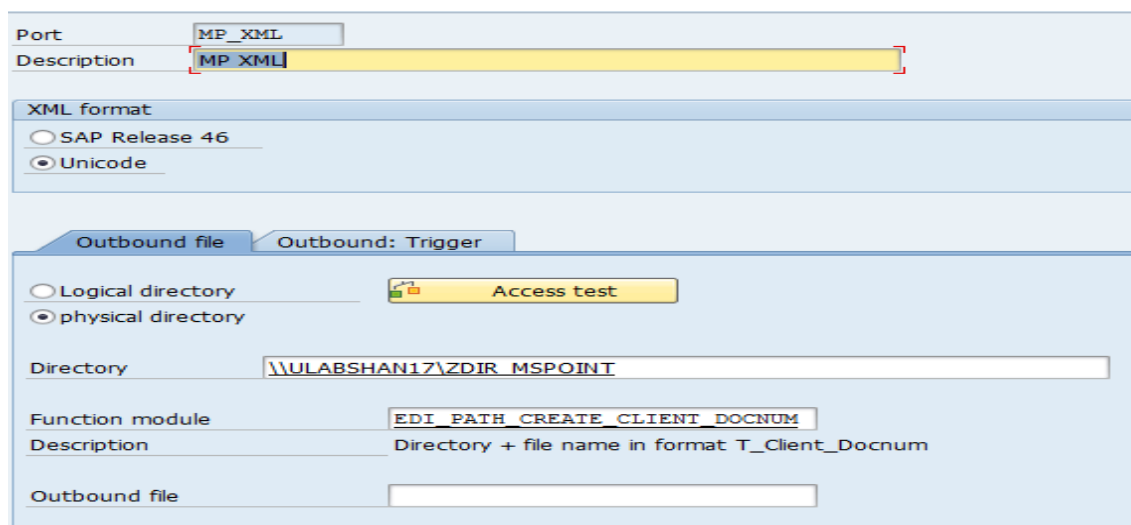
**Start Type of External Program**

- Default Gateway Value
- Remote Execution
- Remote Shell
- Secure Shell

## Define an XML Port

Use the following steps to define an XML Port:

- Run the t-code WE21 > Create an XML File type port.
- Create the single XML file type port for Measuring Point.



Port: MP\_XML

Description: MP XML

**XML format**

- SAP Release 46
- Unicode

**Outbound file    Outbound: Trigger**

- Logical directory    Access test
- physical directory

Directory: \\ULABSHAN17\ZDIR\_MSPPOINT

Function module: EDI\_PATH\_CREATE\_CLIENT\_DOCNUM

Description: Directory + file name in format T\_Client\_Docnum

Outbound file:

## Define Partner Profiles

Run the t-code WE20 > Locate the MDG Client S17CLNT100 under tree node Partner Profile LS > Maintain the settings for message type /UGI3/MEASURINGPOINT under outbound parameters.

**Partner profiles: Outbound parameters**

Partner No. S17CLNI200 S17 200  
 Partn.Type LS Logical system  
 Partner Role

Message Type /UGI3/MEASURINGPOINT Measuring Point Idoc Message type  
 Message code  
 Message function Test

Outbound Options Message Control Post Processing: Permitted Agent Tel...

Receiver port S17CLNI200 Transactional RFC S17 200  
 Pack. Size 100  
 Queue Processing

Output Mode  
 Pass IDoc Immediately Output Mode 2  
 Collect IDocs

IDoc Type  
 Basic type /UGI3/MEASURINGPOINT\_CR01 Measuring Point Idoc Basic ty...  
 Extension  
 View  
 Cancel Processing After Syntax Error  
 Seg. release in IDoc type Segment Appl. Rel.

## Define Object Types

Go to 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 Acti

Structure

- Master Data 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

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

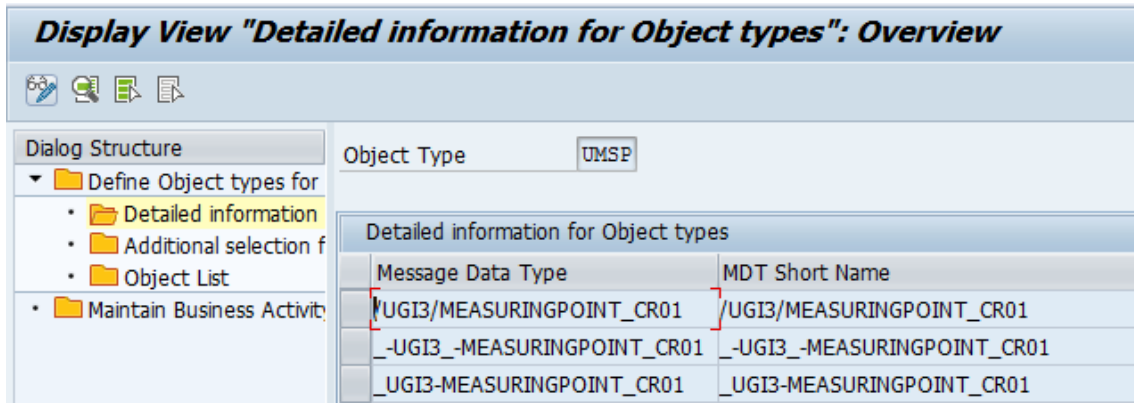
Dialog Structure

- Define Object types for
  - Detailed information
  - Additional selection f
  - Object List
- Maintain Business Activi

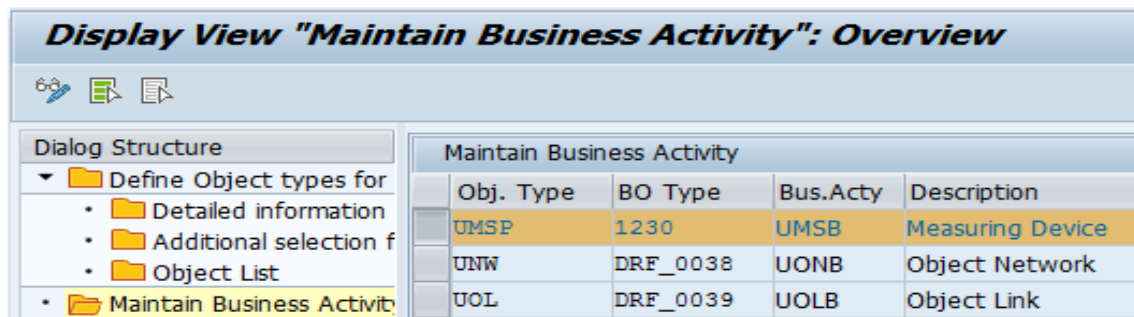
Obj. Type	Description	BO Type	Description
UMSP	Measuring Point transfer	1230	Measuring Device
UNW	Object link network	DRF_0038	Object Network
UOL	Object link	DRF_0039	Object Link

Use the following steps to set the Data Import Framework.

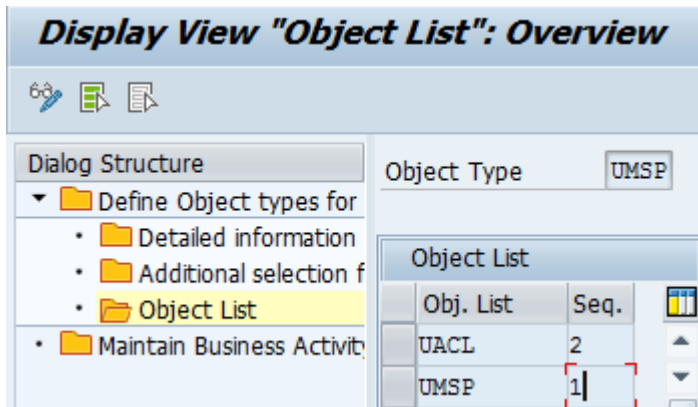
1. Click on sub-node 'Detailed information for Object Types'
2. Provide the message types to be recognized in the file while importing the data.



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.



## 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 transaction AL11 to verify the directory path creation:

ZDIR_MSPOINT	\\ULABSHAN17\ZDIR_MSPOINT
--------------	---------------------------

6. Run the transaction FILE to map directory path to logical names:

**Change View "Logical File Path Definition": Overview**

Copy as... Delete Deselect all

Dialog Structure

- Logical File Path Definitio
  - Assignment of Physi
- Logical File Name Definiti
- Definition of Variables
- Syntax Group Definition
- Assignment of Operating

Create a logical file path

Logical File Path	Name
ZDIR_MSPOINT	File path for MSPoint
ZDIR_MSPOINT_ARCHIVE	FILE PATH FOR MSPOINT ARCHIVE

7. Assign physical path for ZDIR\_MSPOINT.

**New Entries: Details of Added Entries**

Dialog Structure

- Logical File Path Definitio
  - Assignment of Physi
- Logical File Name Definiti
- Definition of Variables
- Syntax Group Definition
- Assignment of Operating

Logical path	ZDIR_MSPOINT
Name	File path for MSPoint
Syntax group	WINDOWS NT Microsoft Windows NT
Physical path	\\ULABSHAN17\ZDIR_MSPOINT\<FILENAME>

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

**New Entries: Details of Added Entries**

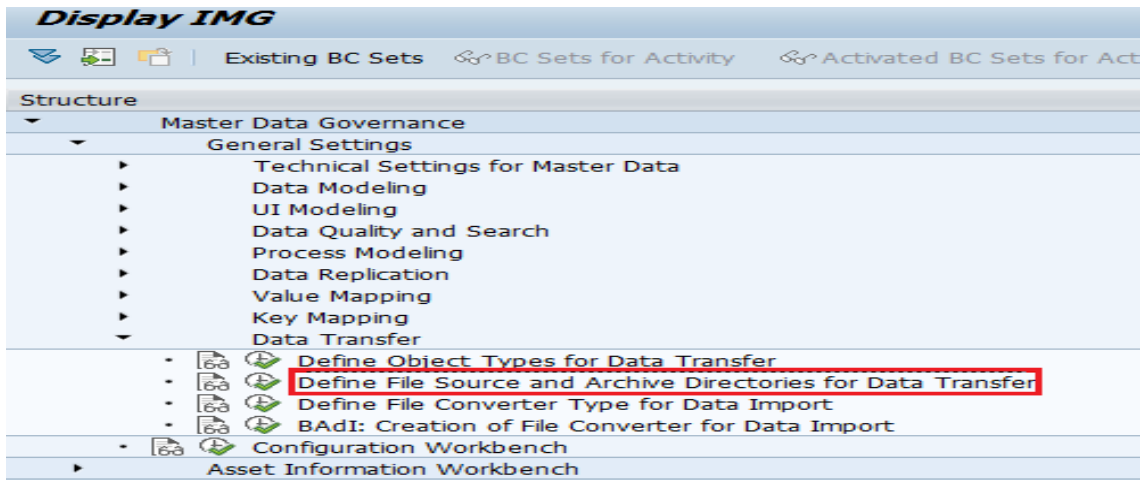
Dialog Structure

- Logical File Path Definitio
  - Assignment of Physi
- Logical File Name Definiti
- Definition of Variables
- Syntax Group Definition
- Assignment of Operating

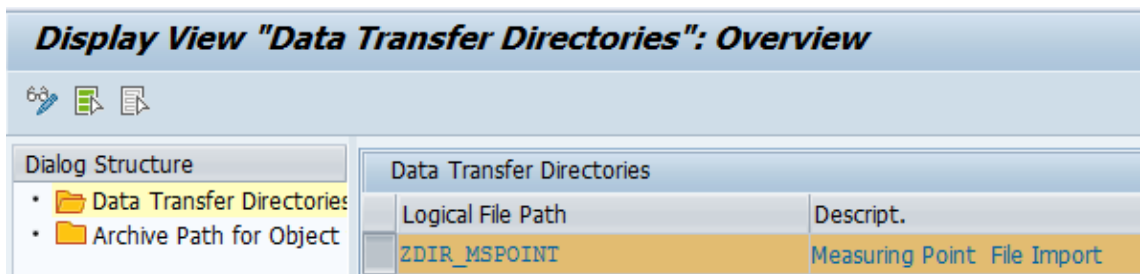
Logical path	ZDIR_MSPOINT_ARCHIVE
Name	FILE PATH FOR MSPOINT ARCHIVE
Syntax group	WINDOWS NT Microsoft Windows NT
Physical path	\\ULABSHAN17\ZDIR_MSPOINT\ARCHIVE\<FILENAME>

## Defining Source and Logical Directories

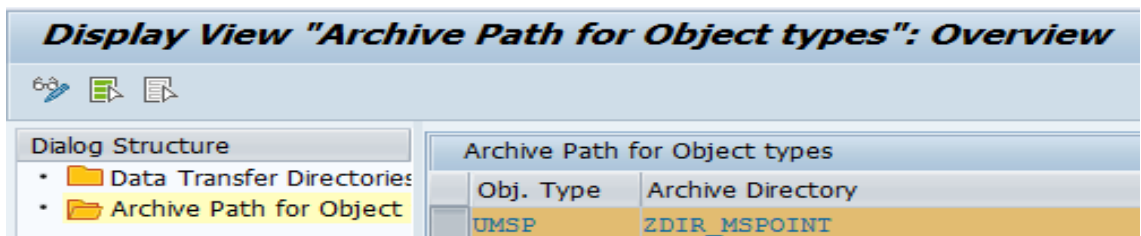
Go to MDGIMG > Master Data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.



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



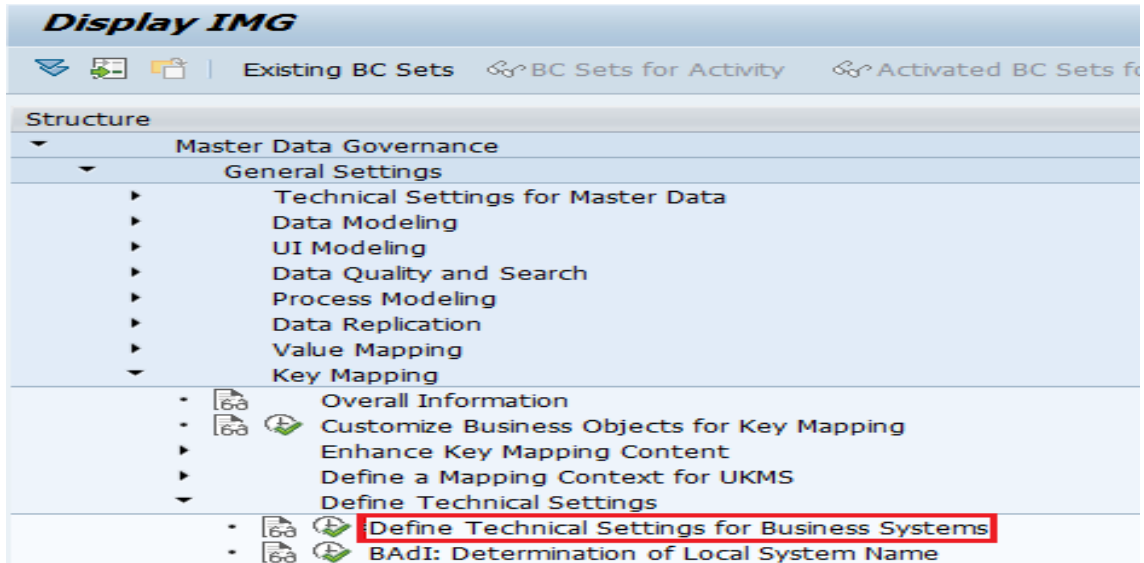
2. Click on Archive Path Object Types to maintain the archiving path of files used.



## Define the Technical Settings for Business Systems

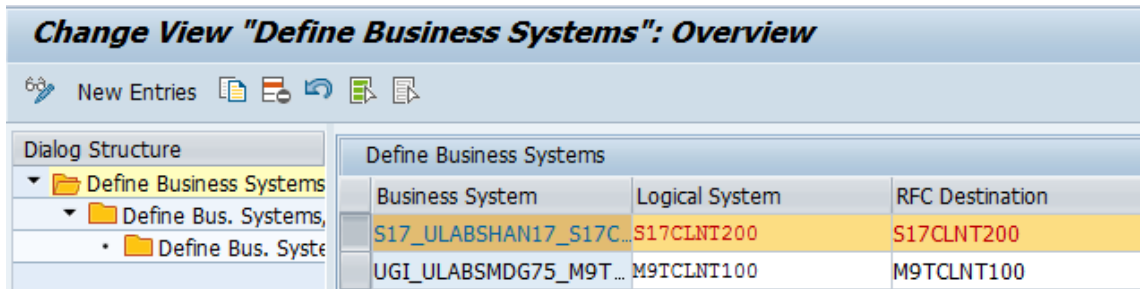
Go to Master Data Governance > General Settings > Key Mapping > Define Technical Settings > Define Technical Settings for Business Systems.





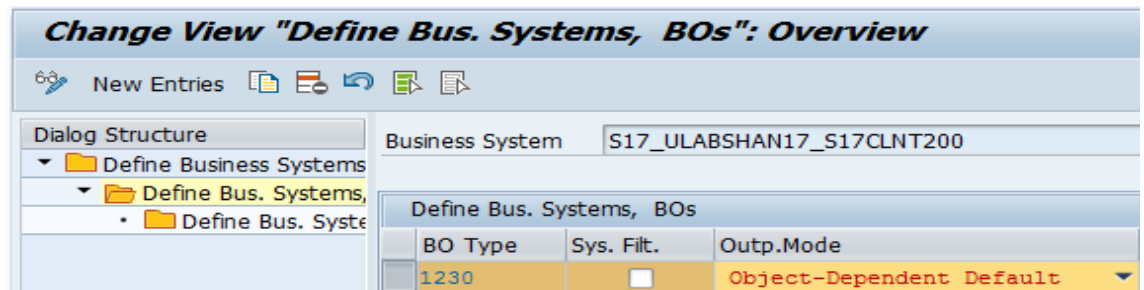
Use the following steps to define technical settings for Business Systems:

1. Define the Business System.

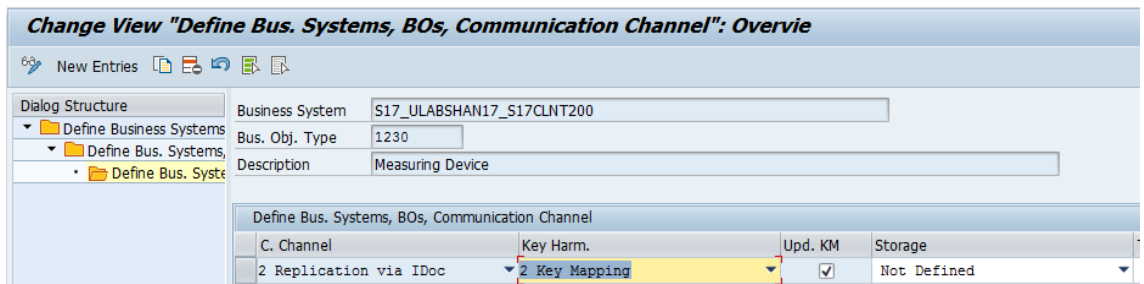


2. Add the Measuring Point BO Type for the Business System:

- BO Types 1230 (Measuring Point)



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 transaction AL11 and get the directory name for file.

ZDIR\_MSPOINT      \\ULABSHAN17\ZDIR\_MSPOINT

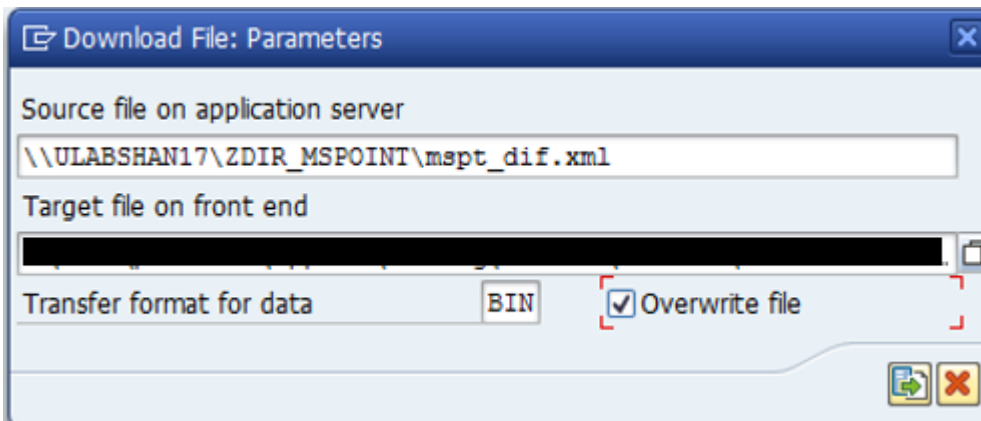
3. Open directory and get the file name to download.

**Directory: | |ULABSHAN17|ZDIR\_MSPOINT**



Usable	Viewed	Changed	Length	File Owner	Lastchange	Lastchange	File Name
					31.12.1969	19:00:00	.
					31.12.1969	19:00:00	..
				fs3adm	20.12.2016	10:49:06	ARCHIVE
				fs3adm	24.03.2017	01:48:38	SOURCE
X			1388	SAPServiceS17	09.10.2017	09:03:21	mspt_dif.xml

4. 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.



Download File: Parameters

Source file on application server

Target file on front end

Transfer format for data      BIN       Overwrite file

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

The following steps are required to run the DIF for Measuring Point.

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

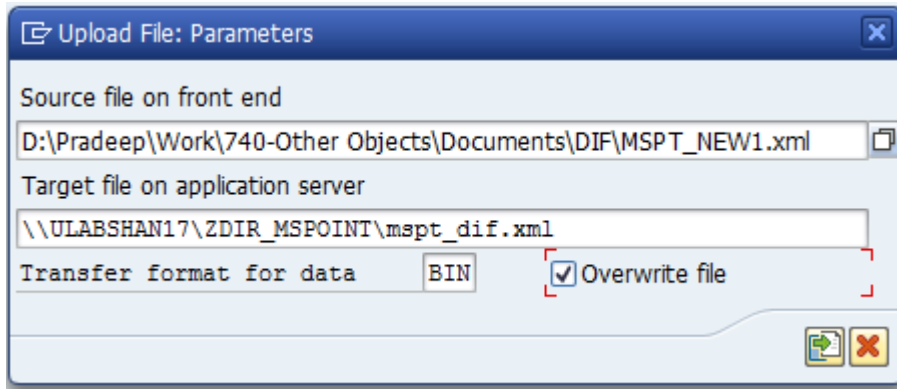
Use the following steps to test the DIF:

1. Received below IDoc XML for DIF Import from client system:



MSPT\_NEW1.xml

2. Upload the file.
3. Run the transaction CG3Z > Choose the upload file Parameters-Source file on front end and Target file on application server paths > Click on upload icon.



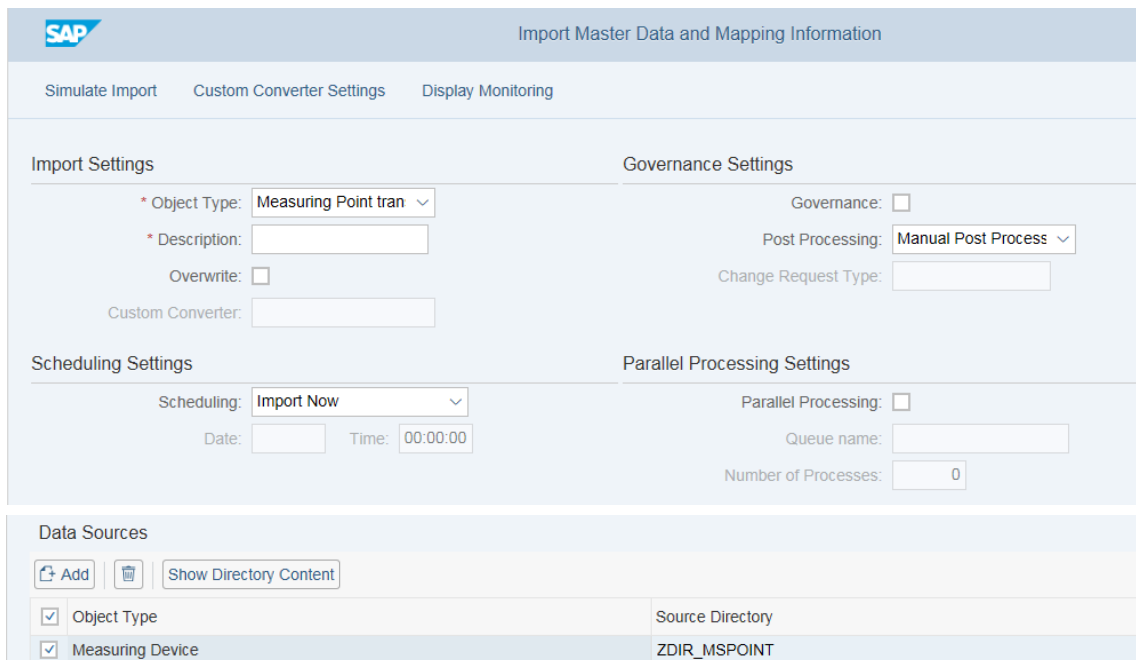
4. Check file in AL11 System.

X			1594	SAPServiceS17	05.10.2017	06:28:47	mspt_dif.xml
---	--	--	------	---------------	------------	----------	--------------

## 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:
    - o Object Type – UMSP
    - o Provide mandatory description
    - o Choose overwrite check box if you want the object to be overwritten
    - o Select the Post Processing as Manual Post Processing
    - o Data Sources – Add the Object Type “Measuring Device” and source directory ZDIR\_MSPOINT



b. Click on “Import” button.

**✓ Data import started with run number 10001087**

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

Data Transfer Logs	
Replicate	
Propagated Type/Date/Time/User	
▼	12.10.2017 02:48:20 [REDACTED]
●	Description: TEST DIF - MSPT MANUAL POST PROCESSING
●	Object Type Processing Sequence: Measuring Device
●	Processing files from directory \\ULABSHAN17\ZDIR_MSPOINT\
●	Message Type _-UGI3_-MEASURINGPOINT_CR01 detected for file mspoint_dif.xml
●	Measuring point ID 5000 replaced by ID 000000001797
●	Measuring Point 1797 exist in active area; Measuring Point overwritten
●	Idoc Processed successfully for Measuring Point 000000001797
▼	12.10.2017 02:48:20 [REDACTED]
●	Object type is Measuring Device

- d. Enter the transaction code IK03 to verify if Measuring Point is created.

**Display Measuring Point: General Data**

Additional Data... MeasDocuments    Last Measurement Document...

Measuring point:     Cat.:  MeasPoint (general)

MeasPosition:

Description:

Functional Loc.:

Description:

---

**General data**

Characteristic:  COMPRESSOR POWER RATING

CharactUnit:  Kilowatt     MeasPoint is counter

Decimal places:     FloatPointExp.:

Code group:  SAP Notifications

Assembly:  Compressor

AuthorizGroup:  Group 0001

MeasRead Transf.:  Supported    Transfer of:

---

**Counter data**

CntrOverReadg:  KW     Count backwards

AnnualEstimate:

Text:

- 3. Scenario 2 – Defined by Change Request without governance.
  - a. Enter the following details in the new Data Import screen:
    - Object Type – UMSP
    - Provide mandatory description
    - Choose overwrite check box if you want the object to be overwritten
    - Select the Post Processing – Defined by Change Request
    - Choose the change request type “MEASPT0B”
    - Data Sources – Add the Object Type “Measuring Device” and source directory ZDIR\_MSPOINT



Read Only | Print Preview | Run Validation | Validation Log | Related Services ▾

Change Request: 6052 | Type: Import Measuring Point | Status: Final Check to Be Performed

Overview | Changes | Notes | Attachments

**General Data**

Processing: You are the processor of the change request

\* Description:  | Due Date:

Priority:

Reason:

Created On: 05.10.2017 06:28:51 | Created By:

Changed On: 05.10.2017 06:29:53 | Changed By:

Finalized On: | Finalized By:

**Notes / Attachments**

Notes: 1 note(s) exist(s)

Attachments: 0 attachment(s) exist(s)

Measuring Point Data | Edit

**Basic Data**

Measuring point:

Measurement position:

\* Description:

\* Measuring Point Object:  Equipment

\* Equipment:  [Create Equipment for Task list...](#)

\* MeasPointCategory:  MeasPoint (general)

MeasPoint inactive:

**General Data**

Characteristic Name:  COMPRESSOR POWER RATING

Characteristic Unit:  Kilowatt

3. Check in the t-code IK03 if the Measuring Point is created.

Additional Data...  MeasDocuments | Last Measurement Document...

Measuring point:  | Cat.:  MeasPoint (general)

MeasPosition:

Description:

Equipment:

Description:

**General data**

Characteristic:  COMPRESSOR POWER RATING

CharactUnit:  Kilowatt  MeasPoint is counter

Decimal places:  | FloatPointExp.:

Code group:   ValCode sufficient

Assembly:

AuthorizGroup:

MeasRead Transf.:  Supported | Transfer of:

**Target value**

Target value:

Text:

4. Scenario 3 – Defined by Change Request with governance.
  - a. Enter the following details in the new Data Import screen:
    - o Object type – UMSP
    - o Provide mandatory description
    - o Choose overwrite check box if you want the object to be overwritten
    - o Select the Governance check box
    - o Select the Post Processing – Defined by Change Request
    - o Choose the change request type “MEASPT0B”
    - o Data Sources – Add the Object Type “Measuring Device” and source directory ZDIR\_MSPOINT

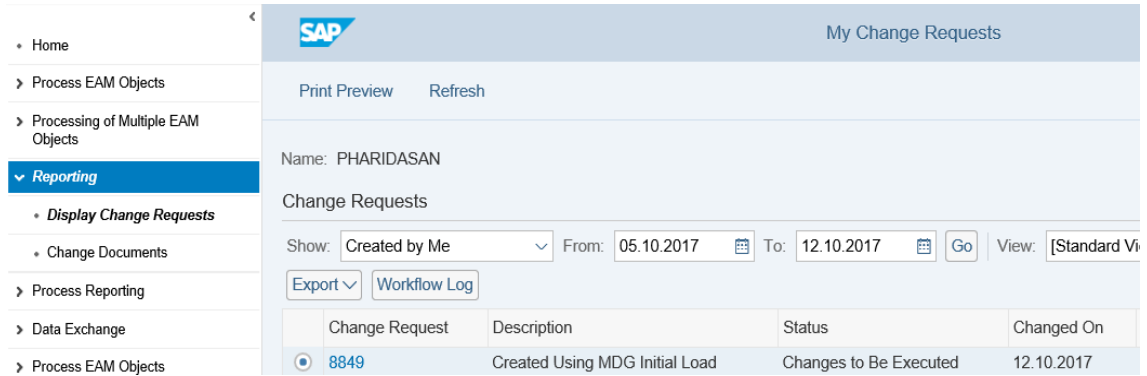
- b. Click on “Import” button.

Data import started with run number 10001088

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

Propagated Type/Date/Time/User	
▼	12.10.2017 02:51:25 [REDACTED]
	● Description: TEST DIF - DEFINED BY CR
	● Object Type Processing Sequence: Measuring Device
	● Processing files from directory \\ULABSHAN17\ZDIR_MSPOINT\
	● Message Type _-UGI3_-MEASURINGPOINT_CR01 detected for file mspoint_dif.xml
	● Measuring Point uploaded to staging area with change request 000000008849
▼	12.10.2017 02:51:24 [REDACTED]
	● Object type is Measuring Device
	● Description: TEST DIF - DEFINED BY CR
	● Data import started with run number 10001088

d. Check the CR number created in Reporting tab in NWBC.



Home

- Process EAM Objects
- Processing of Multiple EAM Objects
- Reporting**
  - Display Change Requests**
  - Change Documents
- Process Reporting
- Data Exchange
- Process EAM Objects

SAP My Change Requests

Print Preview Refresh

Name: PHARIDASAN

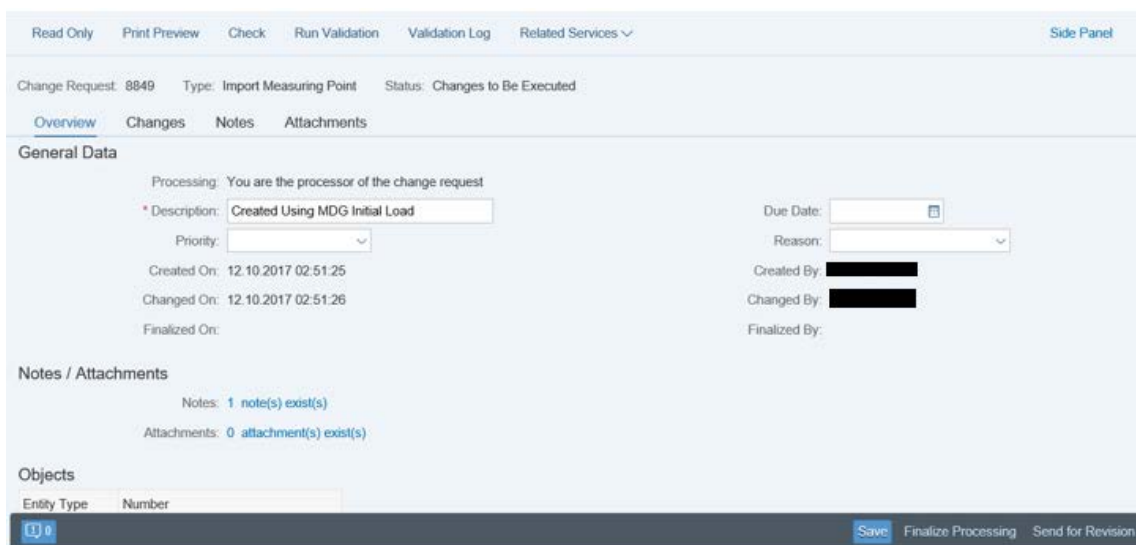
Change Requests

Show: Created by Me From: 05.10.2017 To: 12.10.2017 Go View: [Standard View]

Export Workflow Log

Change Request	Description	Status	Changed On
8849	Created Using MDG Initial Load	Changes to Be Executed	12.10.2017

e. Click on Change Request Number.



Read Only Print Preview Check Run Validation Validation Log Related Services Side Panel

Change Request: 8849 Type: Import Measuring Point Status: Changes to Be Executed

Overview Changes Notes Attachments

**General Data**

Processing: You are the processor of the change request

\* Description: Created Using MDG Initial Load

Priority: [Dropdown]

Created On: 12.10.2017 02:51:25

Changed On: 12.10.2017 02:51:26

Finalized On:

Due Date: [Calendar]

Reason: [Dropdown]

Created By: [Redacted]

Changed By: [Redacted]

Finalized By:

**Notes / Attachments**

Notes: 1 note(s) exist(s)

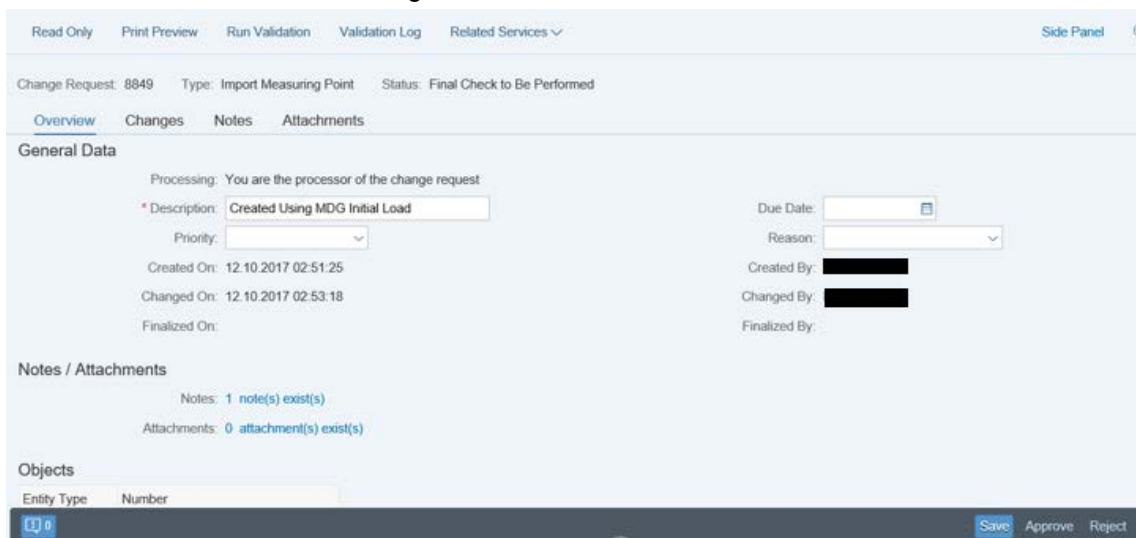
Attachments: 0 attachment(s) exist(s)

**Objects**

Entity Type: Number

Save Finalize Processing Send for Revision

f. Click on Finalize Processing.



Read Only Print Preview Run Validation Validation Log Related Services Side Panel

Change Request: 8849 Type: Import Measuring Point Status: Final Check to Be Performed

Overview Changes Notes Attachments

**General Data**

Processing: You are the processor of the change request

\* Description: Created Using MDG Initial Load

Priority: [Dropdown]

Created On: 12.10.2017 02:51:25

Changed On: 12.10.2017 02:53:18

Finalized On:

Due Date: [Calendar]

Reason: [Dropdown]

Created By: [Redacted]

Changed By: [Redacted]

Finalized By:

**Notes / Attachments**

Notes: 1 note(s) exist(s)

Attachments: 0 attachment(s) exist(s)

**Objects**

Entity Type: Number

Save Approve Reject

g. Click on "Approve" button.



After approving the CR – status will change to Final Check Approved.

h. Run the t-code IK03 if the Measuring Point is created.