

## How-To Guide: DT Import (DIF) Doc for EAM Work Center

### Applies to

MDG EAM Solutions by Utopia

### Summary

MDG for EAM include standard implementations of the Data Import 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 Import Framework for Work Center. 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

**Author:** Pradeep Haridas

**Company:** Utopia Global, Inc.

**Created On:** September 05, 2018

**Version:** 1.0

## Table of Contents

Introduction .....	3
Steps for ALE Scenario Configuration.....	3
Define Logical Systems.....	3
Define an RFC Connection.....	3
Define an XML Port.....	4
Define Partner Profiles .....	5
Define Object Types .....	5
File Source and Archive directories.....	7
Defining Source and Logical Directories.....	8
Define the Technical Settings for Business Systems .....	10
Test Scenario for DIF.....	11
Data Import.....	12

## 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

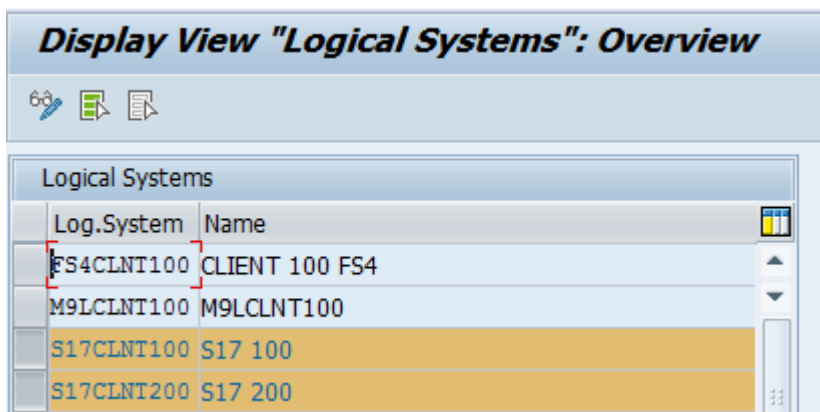
**Note:** The following configuration is required only when you want to generate XML file from IDOC.

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.



**Display View "Logical Systems": Overview**

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 t-code SALE. Navigate to tree menu Communication -> Create RFC Connections or Run the transaction 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: TCP/IP Connection    Description:

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: rfexec

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 and enter the name of the port and relevant description. For example, WC\_XML.
2. Enter the name of the Directory created using t-code AL11 and enter the Function module as displayed in the following screen.

Port: WC\_XML

Description: WC XML

XML format

SAP Release 46

Unicode

Outbound file    Outbound: Trigger

Logical directory    Access test

physical directory

Directory: \\ULABSHAN17\ZDIR\_WCDIF\

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/WRKCNTR under outbound parameters.

**Partner profiles: Outbound parameters**

63

Partner No.  S17 200

Partn.Type  Logical system

Partner Role

Message Type  UGI workcenter IDOC for MDG MSG...

Message code

Message function   Test

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

Receiver port  Transactional RFC S17 200

Pack. Size

Queue Processing

Output Mode

Pass IDoc Immediately Output Mode 2

Collect IDocs

IDoc Type

Basic type  Workcenter multilanguage te...

Extension

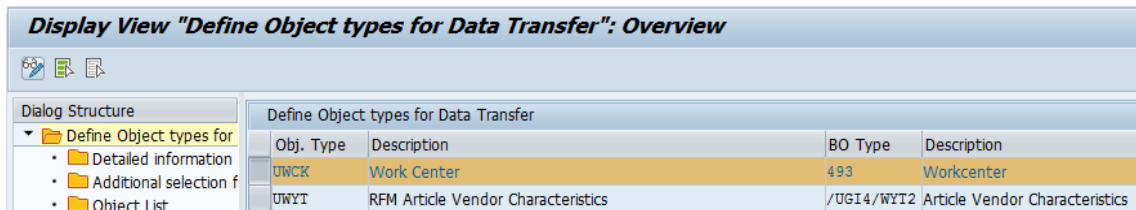
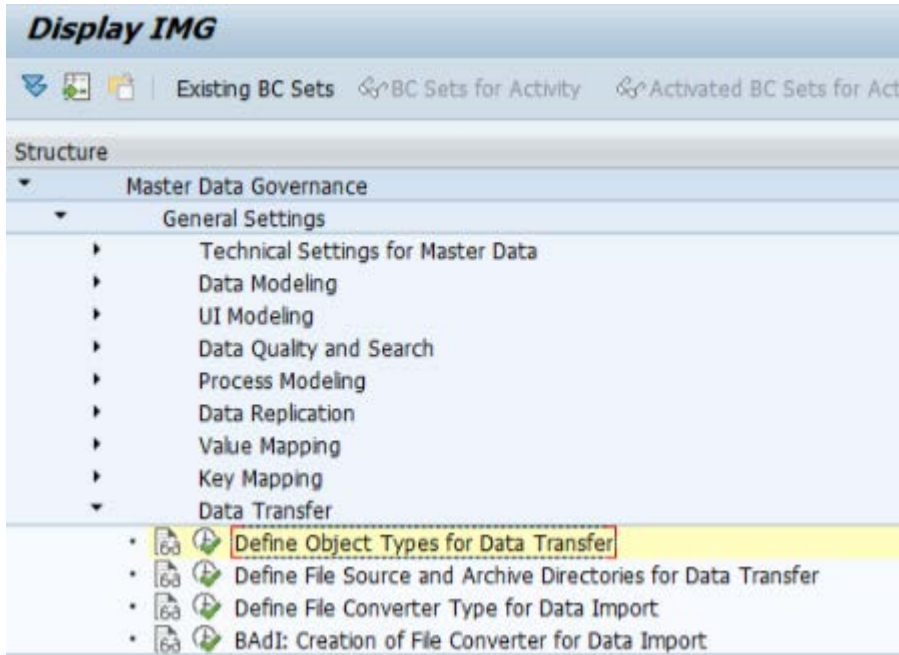
View

Cancel Processing After Syntax Error

Seg. release in IDoc type  Segment Appl. Rel.

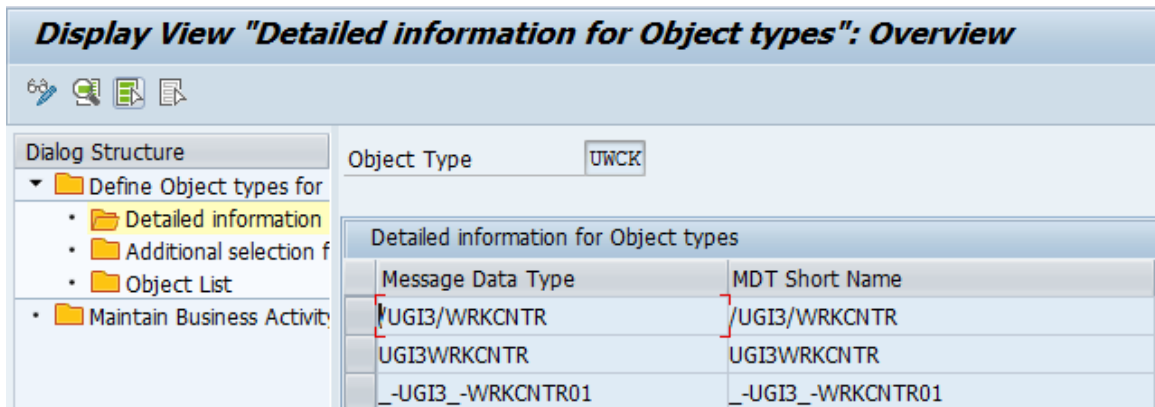
## Define Object Types

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

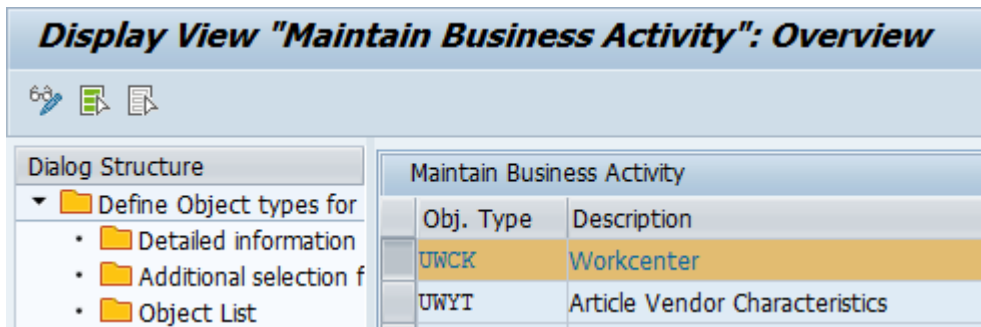


Use the following steps to set the Data Import Framework.

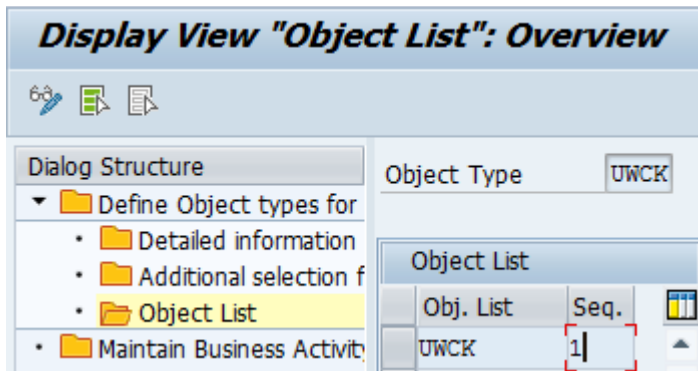
1. Click on sub-node “Detailed information for Object Types”
2. Enter the message types to be recognized in the file while importing the data.



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.



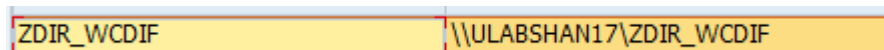
## File Source and Archive directories

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

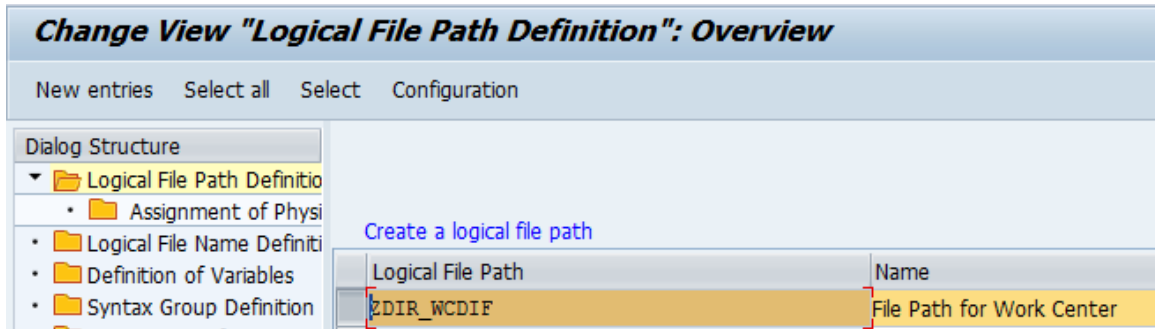
The logical file name and the logical path should be maintained to get an appropriate physical file name and physical path name.

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

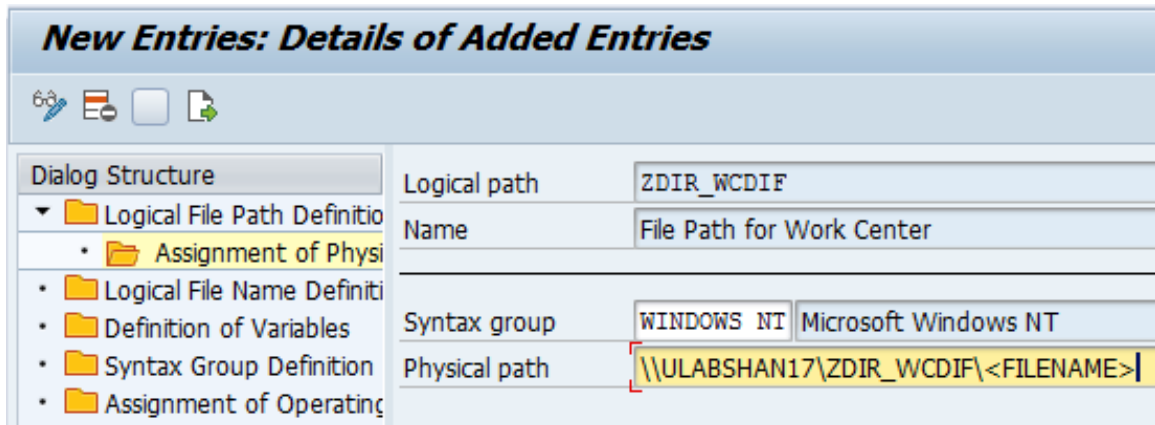
1. Define a Logical Path Name: First determine the target directory in which you want to create the archive files of a certain archiving object. The physical name of this directory is stored in a logical path name.
2. Define a Logical File Name: After creating the logical path name, you need to create 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 t-code AL11 to verify the directory path creation:



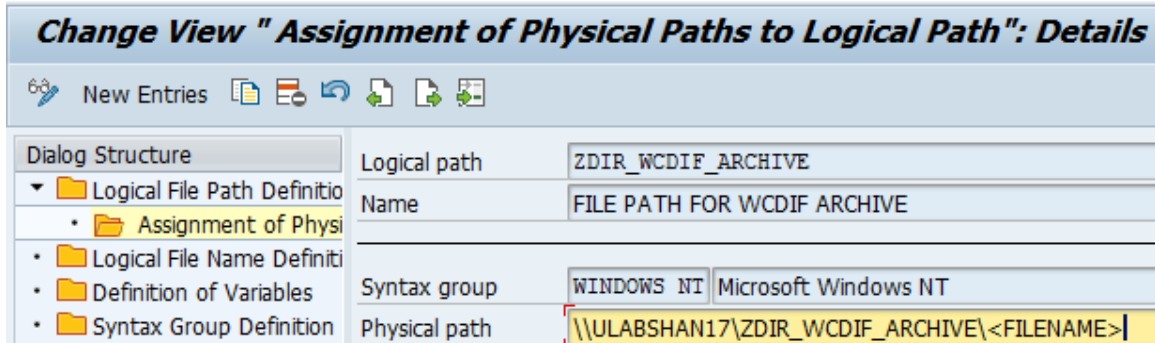
6. Run the t-code FILE to map directory path to logical names:



7. Assign physical path for ZDIR\_WCDIF.



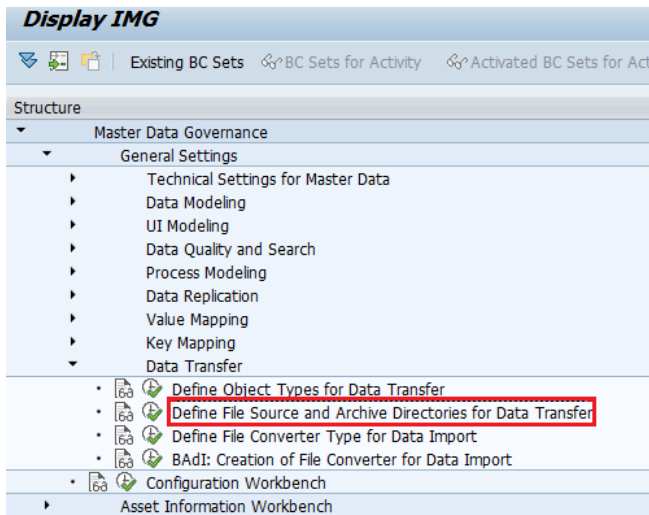
8. Assign physical path for ZDIR\_WCDIF\_ARCHIVE.



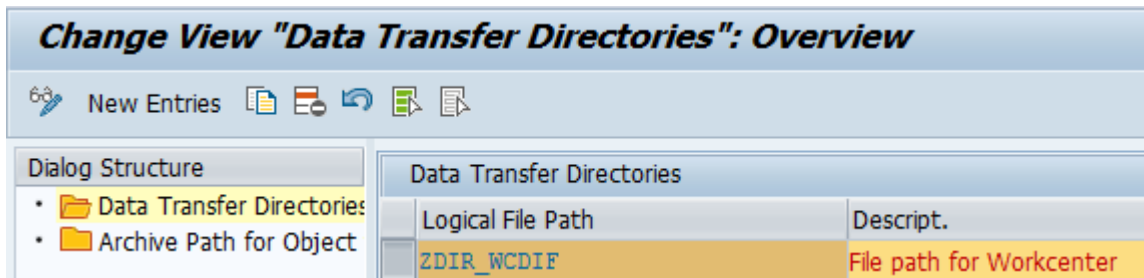
## Defining Source and Logical Directories

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

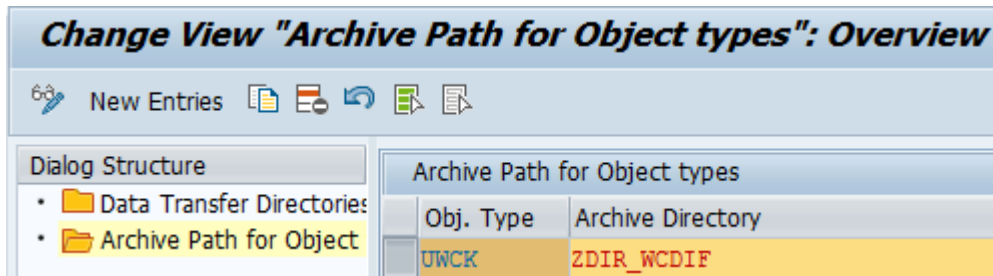




1. Click on Data Transfer Directories > Maintain the Work Center directory which is created in t-code FILE.

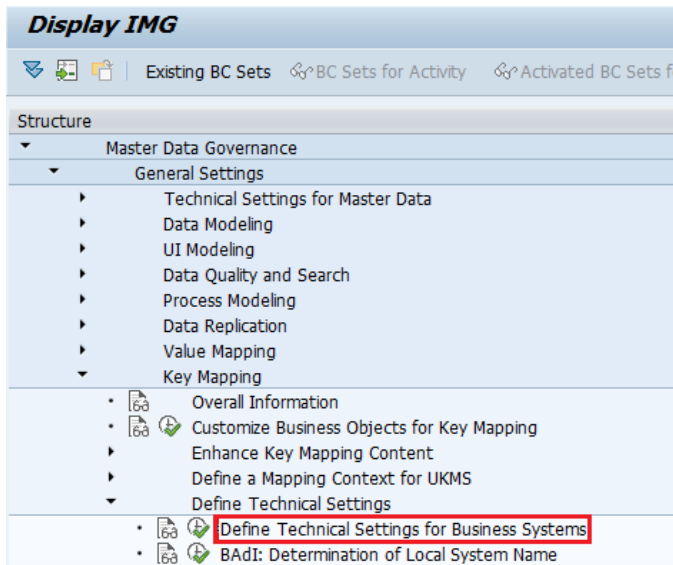


2. Click on Archive Path Object Types to maintain the archiving path of files used.



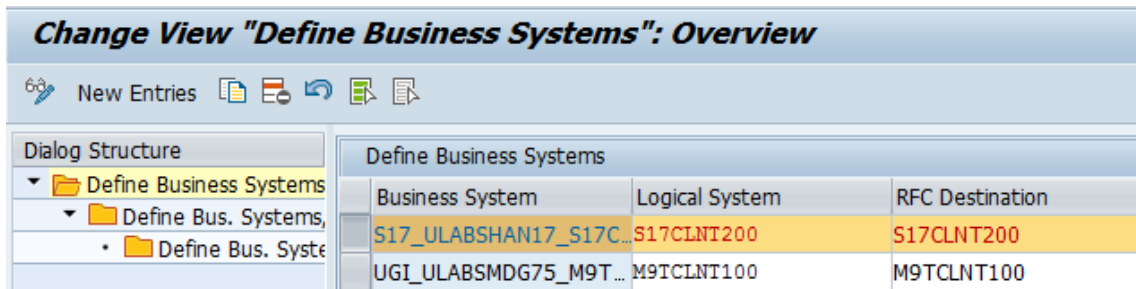
## Define the Technical Settings for Business Systems

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

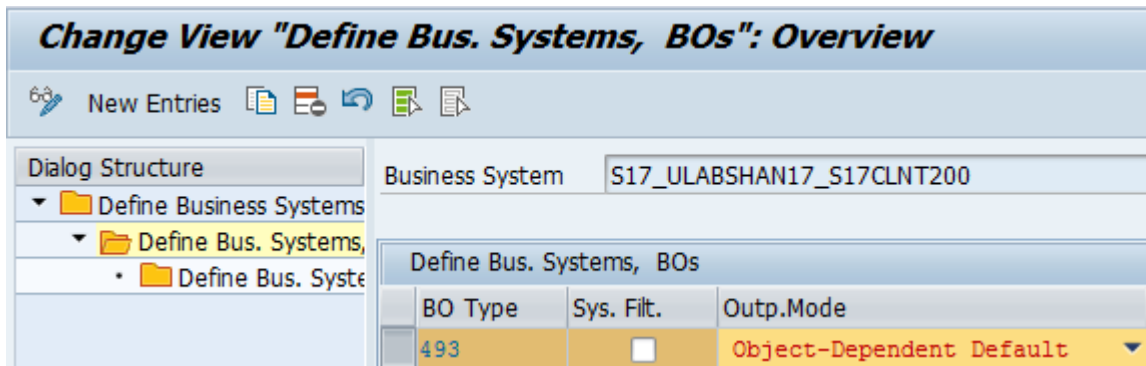


Use the following steps to define technical settings for Business Systems:

1. Define the Business System.



2. Add the Work Center BO Type for the Business System:
  - BO Types 493 (Work Center)



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

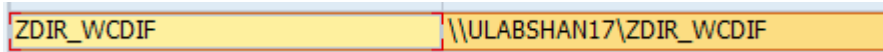


**Note:** For Work Center there is only harmonized scenario, Key Mapping scenario is not possible.

## 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.

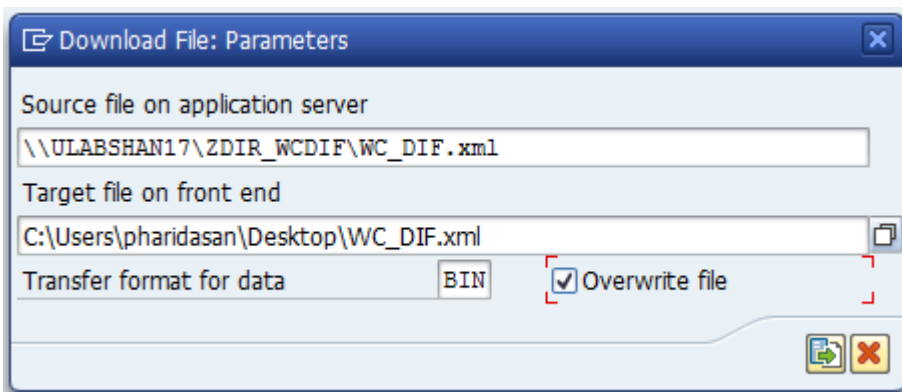


3. Open directory and get the file name to download.

**Directory: ||ULABSHAN17|ZDIR\_WCDIF**

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	10:51:25	ARCHIVE
				fs3adm	24.04.2017	03:39:44	SOURCE
X			4885	SAPServiceS17	06.10.2017	04:49:11	WC_DIF.xml

4. Go to t-code CG3Y to download the 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 "Download" button, file will be downloaded in the specified location.

The following steps are required to run the DIF for Work Center.

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

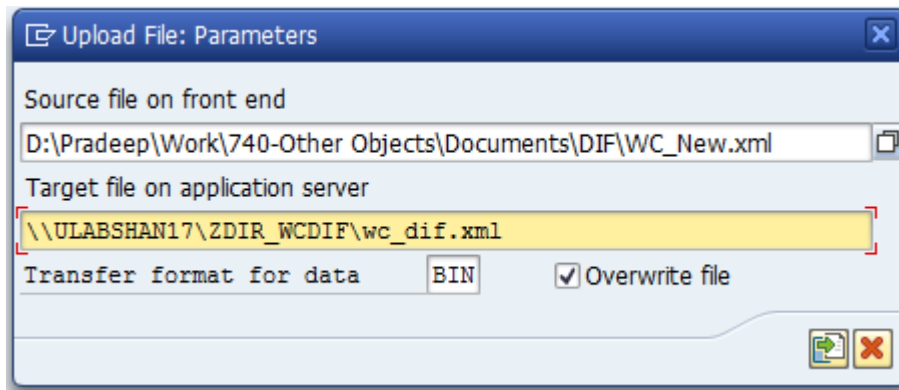
Use the following steps to test the DIF:

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



WC\_New.xml

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.



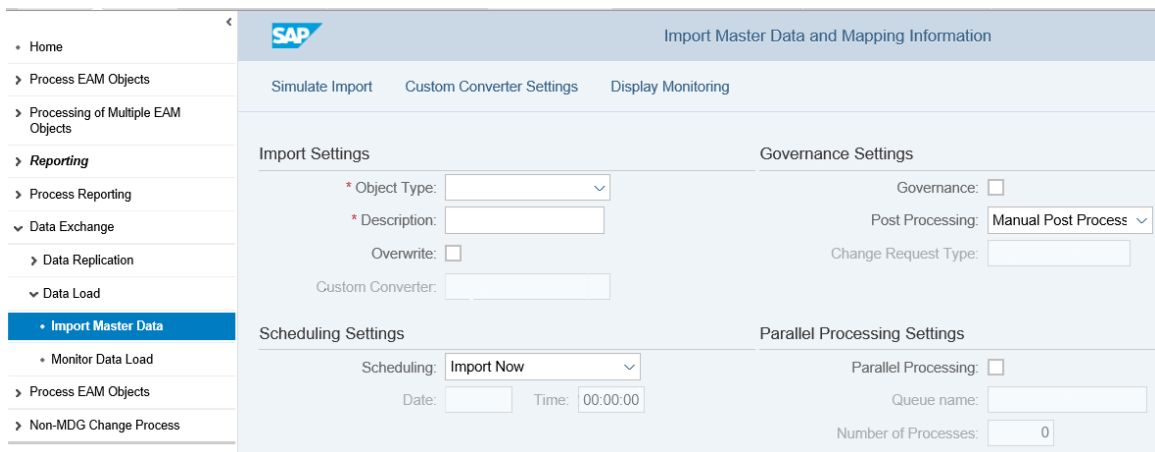
4. Check file in AL11 System.

X			5048	SAPServiceS17	03.10.2017	01:51:05	WC_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 – UWCK
    - o Provide mandatory description

- Choose overwrite check box if you want the object to be overwritten
- Select the Post Processing as Manual Post Processing
- Data Sources – Add the Object Type Workcenter and Source Directory ZDIR\_WCDIF

Simulate Import
Custom Converter Settings
Display Monitoring

**Import Settings**

\* Object Type:  ▾

\* Description:

Overwrite:

Custom Converter:

**Governance Settings**

Governance:

Post Processing:  ▾

Change Request Type:

**Scheduling Settings**

Scheduling:  ▾

Date:  Time:

**Parallel Processing Settings**

Parallel Processing:

Queue name:

Number of Processes:

**Data Sources**

<input checked="" type="checkbox"/>	Object Type	Source Directory
<input checked="" type="checkbox"/>	Workcenter	ZDIR_WCDIF

b. Click on “Import” button.

Data import started with run number 10000802

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

**Data Transfer Logs**

		Propagated Type/Date/Time/User
<input type="radio"/>	▼	<input checked="" type="checkbox"/> 10.10.2017 06:39:29 [REDACTED]
<input type="radio"/>		<input checked="" type="checkbox"/> Description: TEST DIF - MANUAL POST PROCESSING
<input type="radio"/>		<input checked="" type="checkbox"/> Object Type Processing Sequence: Workcenter
<input type="radio"/>		<input checked="" type="checkbox"/> Processing files from directory \\ULABSHAN17\ZDIR_WCDIF\
<input type="radio"/>		<input checked="" type="checkbox"/> Message Type _UGI3_-WRKCNT01 detected for file WC_DIF.xml
<input type="radio"/>		<input checked="" type="checkbox"/> Work Center exists in active area; Work Center overwritten
<input type="radio"/>		<input checked="" type="checkbox"/> IDoc processed successfully for Work Center ZVAS2000 Plant 0001
<input type="radio"/>	▼	<input checked="" type="checkbox"/> 10.10.2017 06:39:29 [REDACTED]
<input type="radio"/>		<input checked="" type="checkbox"/> Object type is Workcenter
<input type="radio"/>		<input checked="" type="checkbox"/> Description: TEST DIF - MANUAL POST PROCESSING

d. Enter the t-code IR03 if Work Center is created.

3. Scenario 2 – Defined by Change Request without governance
  - a. Update the following details in the new Data Import screen
    - Object type – UWCK
    - Enter the 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 as “WRKCTR0B”
    - Data Sources – Add the Object Type Workcenter and Source Directory ZDIR\_WCDIF

- b. Click on “Import” button.

Data import started with run number 10000387

- 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	
<input type="radio"/>	▼ <input checked="" type="checkbox"/> 03.10.2017 06:37:18 [REDACTED]
<input type="radio"/>	<input checked="" type="checkbox"/> Description: TEST DIF WC
<input type="radio"/>	<input checked="" type="checkbox"/> Object Type Processing Sequence: Workcenter
<input type="radio"/>	<input checked="" type="checkbox"/> Processing files from directory \\ULABSHAN17\ZDIR_WCDIF\
<input type="radio"/>	<input checked="" type="checkbox"/> Message Type _-UGI3_-WRKCNTRO1 detected for file WC_DIF.xml
<input type="radio"/>	<input checked="" type="checkbox"/> IDoc processed successfully for Work Center WC_TSTDI Plant 0001
<input type="radio"/>	▼ <input checked="" type="checkbox"/> 03.10.2017 06:37:18 [REDACTED]
<input type="radio"/>	<input checked="" type="checkbox"/> Object type is Workcenter
<input type="radio"/>	<input checked="" type="checkbox"/> Description: TEST DIF WC
<input type="radio"/>	<input checked="" type="checkbox"/> Data import started with run number 10000387

- d. Check in the t-code IR03 is Work Center is created.

**Display Work Center: Basic Data**

HR assignment Hierarchy

Plant: 0001 Werk 0001  
 Work center: WC\_TSTDI DIF Testing

Basic Data | Default Values | Capacities | Scheduling | Costing | Technology

**General Data**

Work Center Category	0005	Plant maintenance
Person Responsible	001	SAP Beispiel: Verantwortlicher 001
Location	0001	Werk 0001 Standort 0001
QDR System	000001	CAQ subsystem 1
Supply Area	BEREICH 1	SAP area 1
Usage	004	Only maintenance task lists
Backflush	<input checked="" type="checkbox"/>	Advanced Planning <input type="checkbox"/>

**Standard Value Maintenance**

Standard value key: SAP1 Normal production

Standard Values Overview			
Key Word	Rule for Maint.	K...	Description
Setup	no checking	001	SAP example
Machine	no checking	001	SAP example
Labor	no checking	001	SAP example

- 4. Scenario 3 - Defined by Change Request with governance.
  - a. Update the following details in the new Data Import screen:
    - o Object Type – UWCK

- Provide mandatory description
- Choose overwrite check box if you want the object to be overwritten
- Select the Post Processing – Defined by Change Request.
- Select Governance checkbox.
- Choose the Change Request type “WRKCTR0B”
- Data Sources – Add the Object Type Workcenter and source directory ZDIR\_WCDIF

Simulate Import
Custom Converter Settings
Display Monitoring

**Import Settings**

\* Object Type:

\* Description:

Overwrite:

Custom Converter:

**Governance Settings**

Governance:

Post Processing:

\* Change Request Type:

**Scheduling Settings**

Scheduling:

Date:  Time:

**Parallel Processing Settings**

Parallel Processing:

Queue name:

Number of Processes:

**Data Sources**

<input checked="" type="checkbox"/>	Object Type	Source Directory
<input checked="" type="checkbox"/>	Workcenter	ZDIR_WCDIF

b. Click on “Import” button.

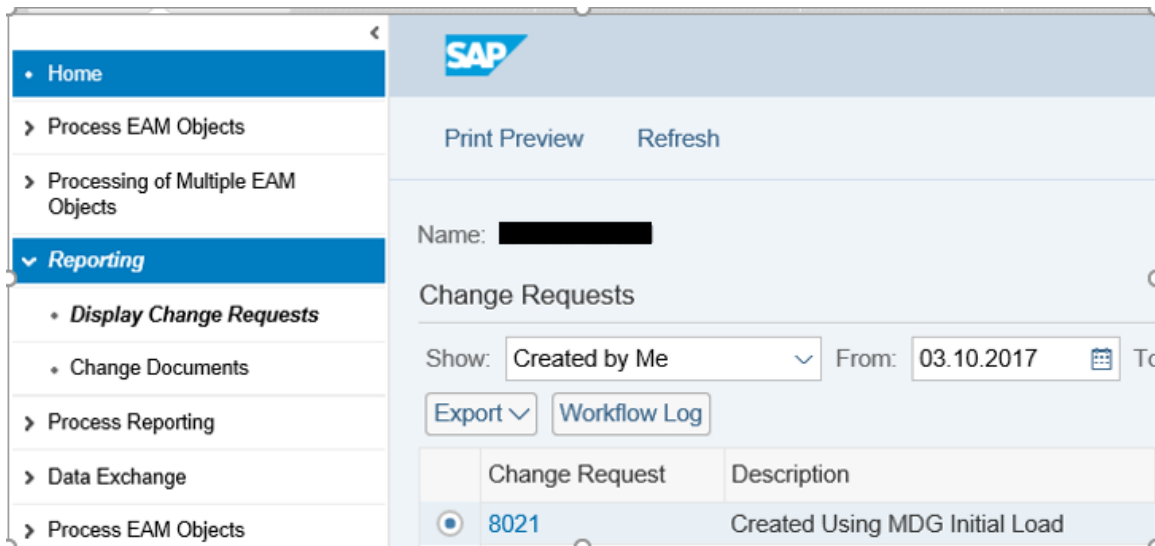
Data import started with run number 10000812

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



Data Transfer Logs	
<input type="button" value="Replicate"/>	
Propagated Type/Date/Time/User	
<input type="radio"/>	10.10.2017 06:55:46 [REDACTED]
<input type="radio"/>	■ Description: TEST DIF - MANUAL POST PROCESSING
<input type="radio"/>	■ Object Type Processing Sequence: Workcenter
<input type="radio"/>	■ Processing files from directory \\ULABSHAN17\ZDIR_WCDIF\
<input type="radio"/>	■ Message Type _UGI3_-WRKCNTRO1 detected for file WC_DIF.xml
<input type="radio"/>	■ Work Center exists in active area; Work Center overwritten
<input type="radio"/>	■ Work Center uploaded to staging area with change request 000000008021
<input type="radio"/>	10.10.2017 06:55:46 [REDACTED]
<input type="radio"/>	■ Object type is Workcenter
<input type="radio"/>	■ Description: TEST DIF - MANUAL POST PROCESSING

d. Open Change Request from Reporting tab in NWBC.



The screenshot shows the SAP NWBC Reporting interface. On the left is a navigation menu with 'Reporting' selected. The main area displays 'Change Requests' with a search filter set to 'Created by Me' and a date range from '03.10.2017'. A table below shows one entry: Change Request ID '8021' with the description 'Created Using MDG Initial Load'.

e. Click on Finalize Processing the Change Request.

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

Change Request: 8021 | Type: Import Work Center | 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: 10.10.2017 06:55:46

Changed On: 10.10.2017 06:55:47

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

[Icon] 0

Save | Finalize Processing | Send for Revision

f. Click on “Approve” button in the Change Request.

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

Change Request: 8021 | Type: Import Work Center | 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: 10.10.2017 06:55:46

Changed On: 10.10.2017 06:57:37

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

[Icon] 0

Save | Approve | Reject

After Approval CR Status Changed to Final Check Approved.

g. Check the Work Center.

SAP | My Change Requests

Print Preview | Refresh

Name: [Redacted]

**Change Requests**

Show: Created by Me | From: 03.10.2017 | To: 10.10.2017 | Go | View: [Standard V]

Export | Workflow Log

Change Request	Description	Status	Changed On
8021	Created Using MDG Initial Load	Final Check Approved	10.10.2017

Expand all Collapse all Assignment Block:

▼ Work Center Edit

---

Work Center

Plant: 0001  
 Work center: ZVAS2000  
 Work Center Description: MDG EAM Planning Plant Work Center  
 Work Center Category: 0005 Plant maintenance  
 Deletion Flag:  Locked:

---

Basic Data

Person Responsible: 001 SAP Beispiel: Verantwortliche...  
 Location: 0001 Werk 0001 Standort 0001  
 QDR System: 000001 CAQ subsystem 1  
 Prodn Supply Area:  
 Usage: 009 All task list types  
 Backflush:

h. Enter the t-code IR03 if Work Center is created.

**Display Work Center: Basic Data**

HR assignment Hierarchy

Plant: 0001 Werk 0001  
 Work center: ZVAS2000 MDG EAM Planning Plant Work Center

Basic Data | Default Values | Capacities | Scheduling | Costing | Technology

**General Data**

Work Center Category: 0005 Plant maintenance  
 Person Responsible: 001 SAP Beispiel: Verantwortlicher 001  
 Location: 0001 Werk 0001 Standort 0001  
 QDR System: 000001 CAQ subsystem 1  
 Supply Area:  
 Usage: 009 All task list types  
 Backflush:  Advanced Planning:

**Standard Value Maintenance**

Standard value key: SAP0 No standard values

**Standard Values Overview**

Key Word	Description