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

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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.
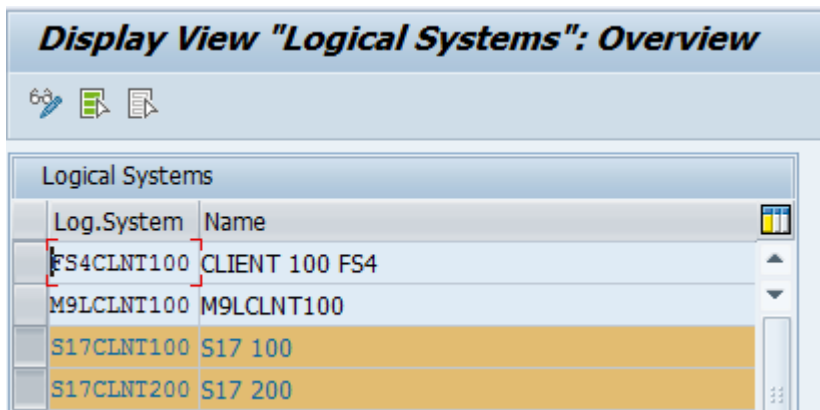
Steps for ALE Scenario Configuration

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.

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 transaction 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:

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RFC Destination LOCAL_EXEC

Connection Test   Unicode Test

RFC Destination	LOCAL_EXEC	
Connection Type	T	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	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:

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.
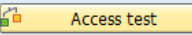
Port	WC_XML
Description	WC XML

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	

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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

Partner No.	S17CLNT200	S17 200
Partn.Type	LS	Logical system
Partner Role		

Message Type	/UGI3/WRKCNTR	UGI workcenter IDOC for MDG MSG...
Message code		
Message function		☐ Test

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

Receiver port	S17CLNT200 ▢	Transactional RFC	S17 200
Pack. Size	100		

☐ Queue Processing

Output Mode

⦿ Pass IDoc Immediately   Output Mode   2
◯ Collect IDocs

IDoc Type

Basic type	/UGI3/WRKCNTR02	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".
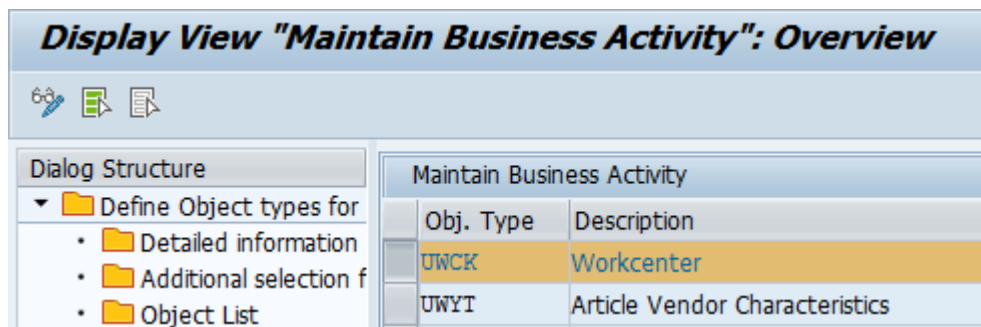
PROMETHEUS GROUP
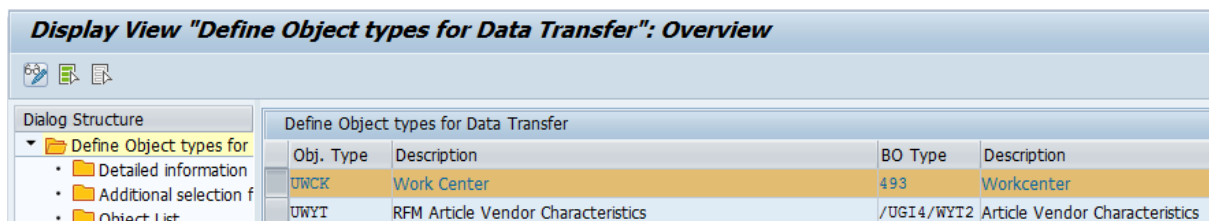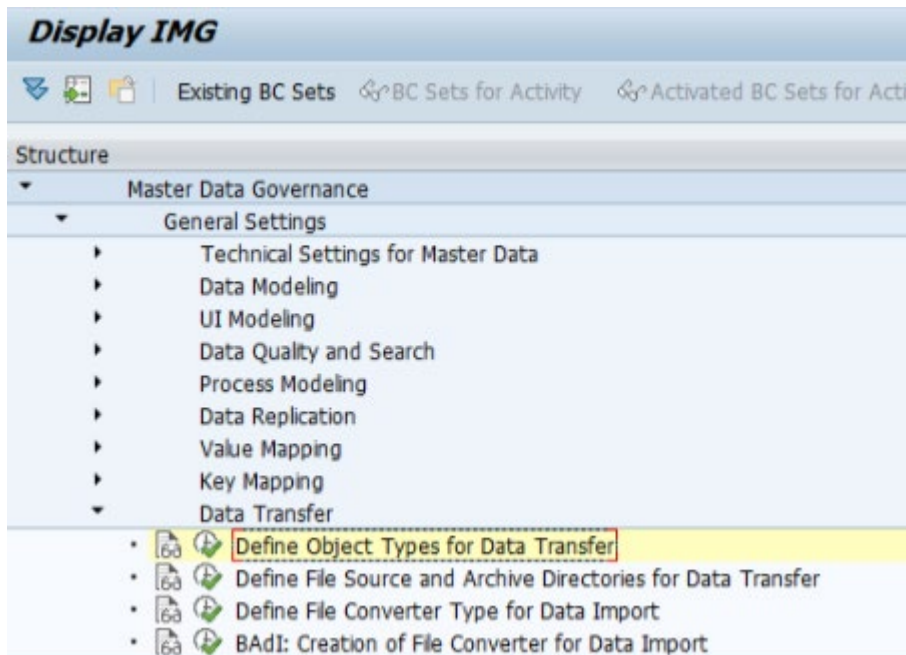
Use the following steps to set the Data Import Framework.
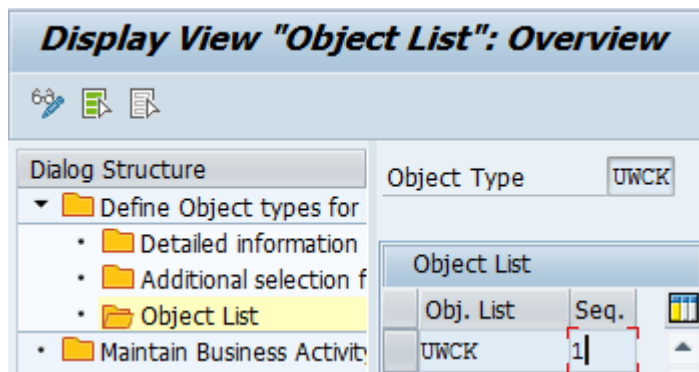
1. Click on sub-node "Detailed information for Object Types"
2. Enter the message types to be recognized in the file while importing the data.
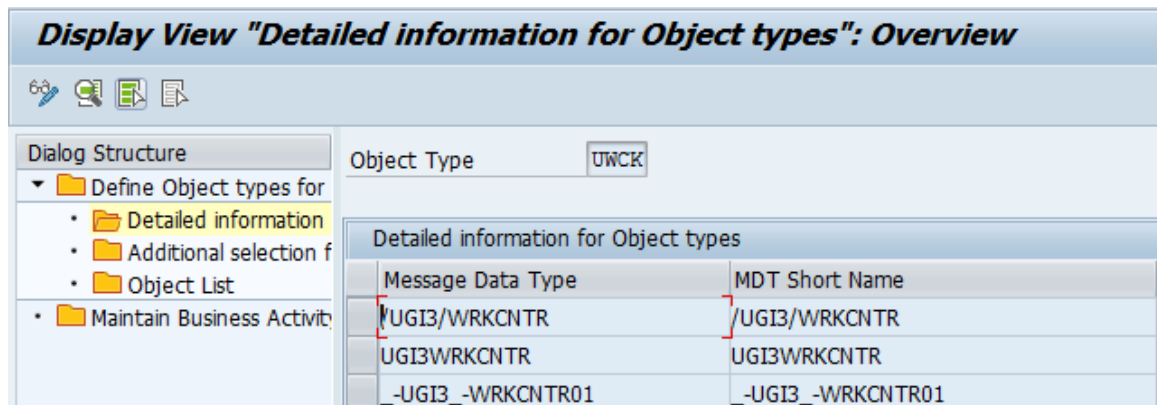
3. Click on the sub-node "Maintain Business Activity". This refers to the CR type to be created while importing the data to staging area.

Display View "Maintain Business Activity": Overview

Dialog Structure	Maintain Business Activity	
▼ 🗀 Define Object types for	Obj. Type	Description
• 🗀 Detailed information	UWCK	Workcenter
• 🗀 Additional selection f	UWYT	Article Vendor Characteristics
• 🗀 Object List		

4. Maintain Object List for Data Import.

Display View "Object List": Overview

Dialog Structure	Object Type		UWCK
▼ 🗀 Define Object types for			
• 🗀 Detailed information	**Object List**		
• 🗀 Additional selection f	Obj. List	Seq.	🎞
• 🗁 Object List	UWCK	1	
• 🗀 Maintain Business Activit			

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_WCDIF	\\ULABSHAN17\ZDIR_WCDIF
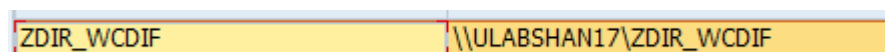
6. Run the t-code FILE to map directory path to logical names:

7. Assign physical path for ZDIR_WCDIF.

8. Assign physical path for ZDIR_WCDIF_ARCHIVE.

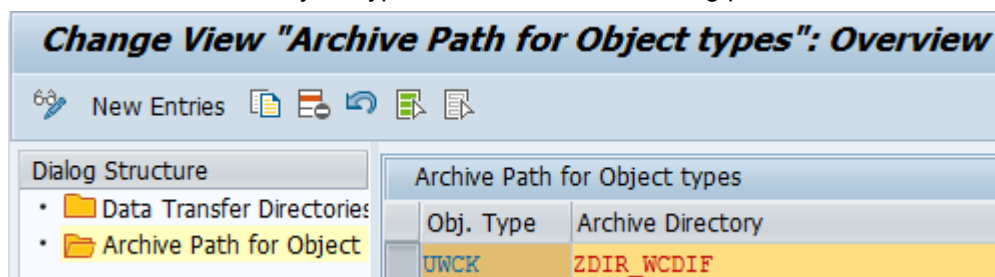# Defining Source and Logical Directories

Go to MDGIMG > Master data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.
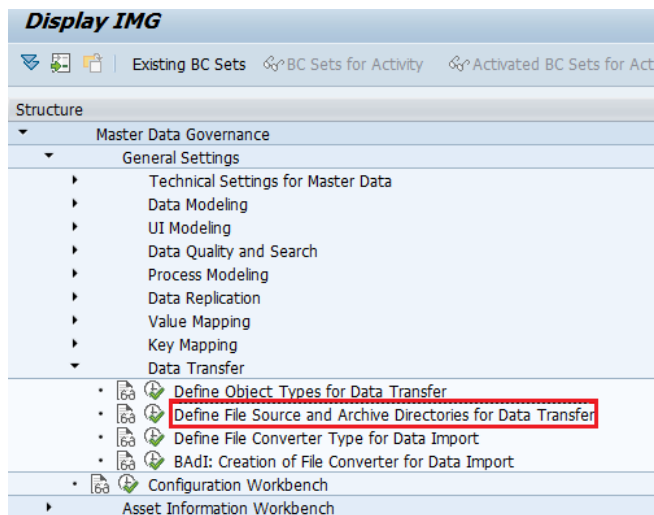
1. Click on Data Transfer Directories > Maintain the Work Center directory which is created in t-code FILE.
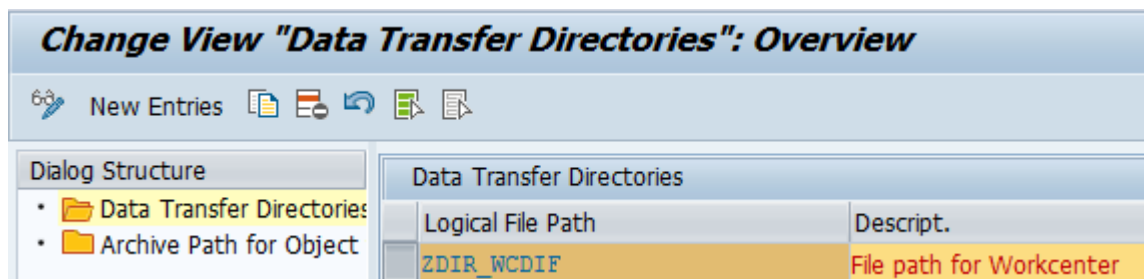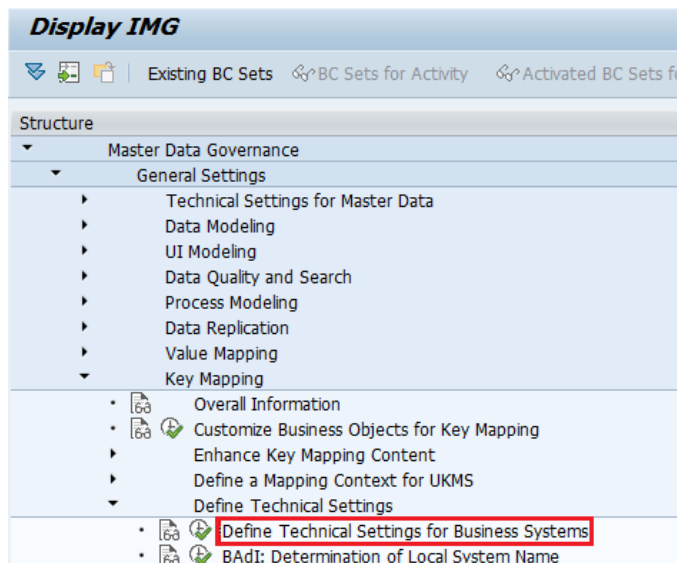

2. Click on Archive Path Object Types to maintain the archiving path of files used.

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.
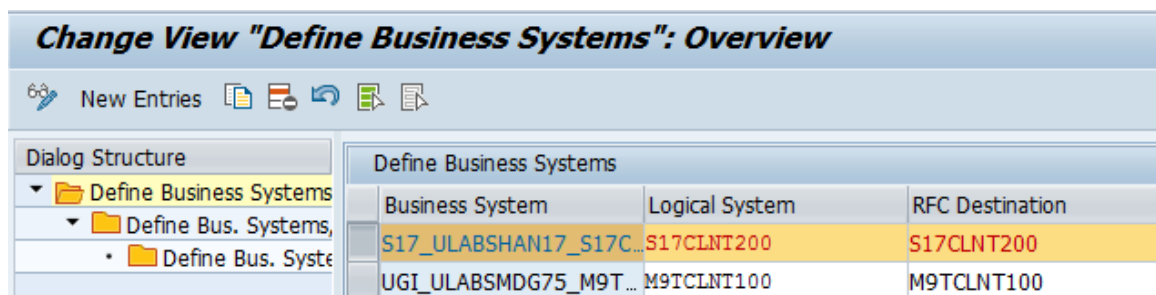
2. Add the Work Center BO Type for the Business System:

    • BO Types 493 (Work Center)
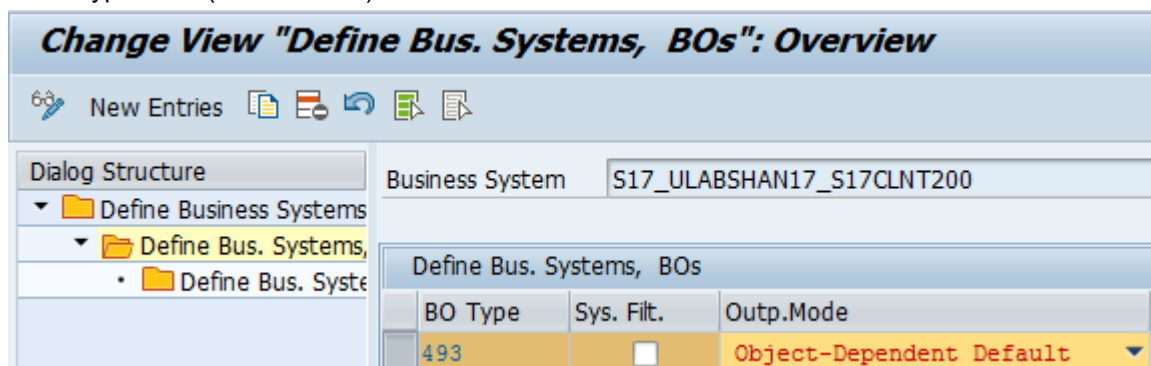
3. For Harmonized scenarios, update the communication channel settings as explained in the following section:

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.

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.
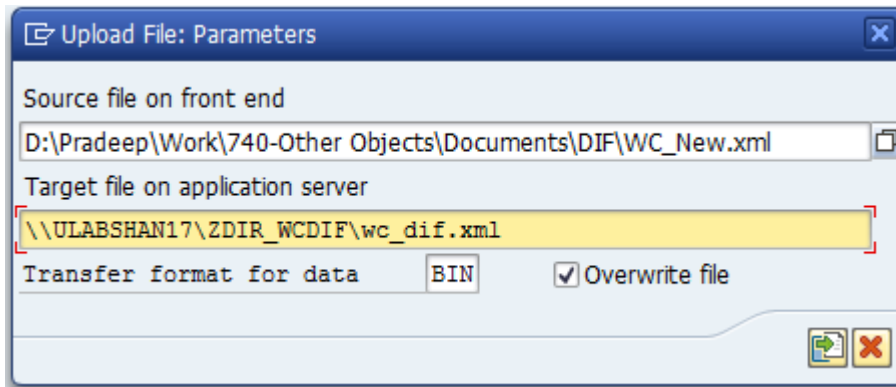
Use the following steps to test the DIF:

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.
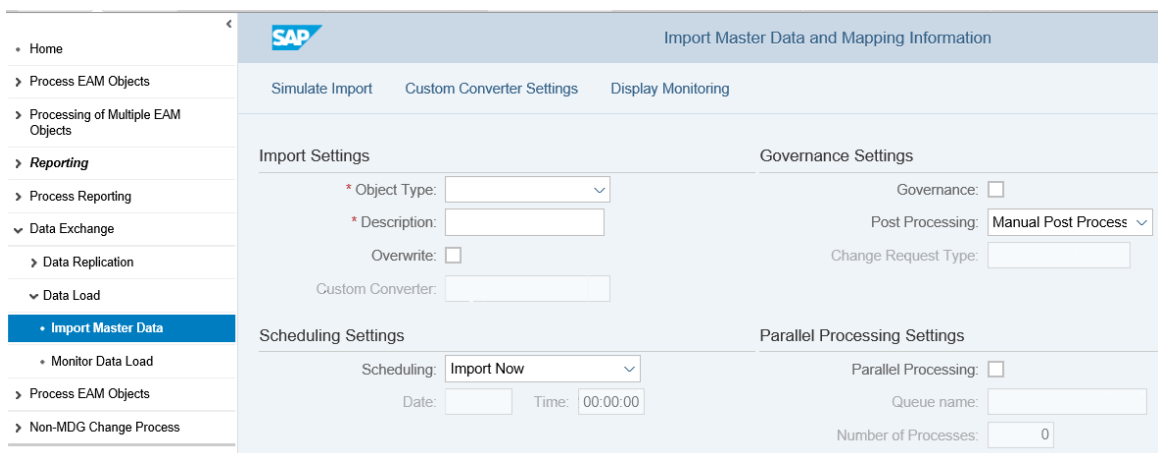

4. Check file in AL11 System.

| 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

- 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 Workcenter and Source Directory ZDIR_WCDIF

Simulate Import   Custom Converter Settings   Display Monitoring

Import Settings

* Object Type:	Work Center - UWCI ∨
* Description:	TEST DIF - MANUAL F
Overwrite:	✓
Custom Converter:	

Governance Settings

Governance:	☐
Post Processing:	Manual Post Process ∨
Change Request Type:	

Scheduling Settings

Scheduling:	Import Now ∨
Date:	Time: 00:00:00

Parallel Processing Settings

Parallel Processing:	☐
Queue name:	
Number of Processes:	0

Data Sources

⊕ Add   🗑   Show Directory Content

☑	Object Type	Source Directory
☑	Workcenter	ZDIR_WCDIF
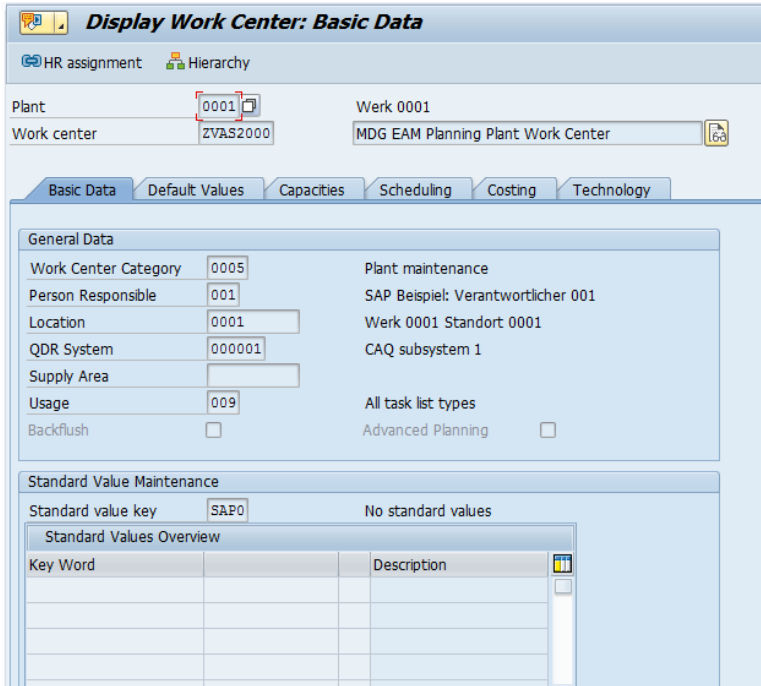
b. Click on "Import" button.

☑   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

Replicate

	Propagated Type/Date/Time/User
○	∨ ■ 10.10.2017 06:39:29 ▮▮▮▮▮
○	■ Description: TEST DIF - MANUAL POST PROCESSING
○	■ Object Type Processing Sequence: Workcenter
○	■ Processing files from directory \\ULABSHAN17\ZDIR_WCDIF\
○	■ Message Type _-UGI3_-WRKCNTR01 detected for file WC_DIF.xml
○	■ Work Center exists in active area; Work Center overwritten
○	■ IDoc processed successfully for Work Center ZVAS2000 Plant 0001
○	∨ ■ 10.10.2017 06:39:29 ▮▮▮▮▮
○	■ Object type is Workcenter
○	■ 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

      o Object type – UWCK
      o Enter the Description
      o Select overwrite checkbox if you want the object to be overwritten
      o Select the Post Processing – Defined by Change Request.
      o Select the Change Request type as "WRKCTR0B"
      o 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
○	∨ ■ 03.10.2017 06:37:18 ▮▮▮▮▮▮▮
○	■ Description: TEST DIF WC
○	■ Object Type Processing Sequence: Workcenter
○	■ Processing files from directory \\ULABSHAN17\ZDIR_WCDIF\
○	■ Message Type _-UGI3_-WRKCNTR01 detected for file WC_DIF.xml
○	■ IDoc processed successfully for Work Center WC_TSTDI Plant 0001
○	∨ ■ 03.10.2017 06:37:18 ▮▮▮▮▮▮▮
○	■ Object type is Workcenter
○	■ Description: TEST DIF WC
○	■ 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	☑	Advanced Planning ☐

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

d. Open Change Request from Reporting tab in NWBC.

e. Click on Finalize Processing the Change Request.

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f. Click on "Approve" button in the Change Request.

After Approval CR Status Changed to Final Check Approved.

g. Check the Work Center.

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	