

# How-To Guide: DT Import (DIF) Doc for Service Master

## Applies to

MDG EAM Solutions by Prometheus Group.

## Summary

SAP Master Data Governance for Service master (MDG-SM) provides business processes to find, create and change Service master data, and to mark it for deletion. It supports the governance of service master data on a central hub and the distribution of service master data to connected operational and business intelligence systems.

The processes are workflow-driven and can include several approval and revision phases, including collaboration between all users participating in master data maintenance. You can use the Import Master Data service to import files containing service and classification data to the Master Data Governance system.

You can also import key and value mapping information. The data from these files can update existing master data records or create new ones using the options available in the Import Master Data service.

This guide provides background information about the Data Import Framework (DIF) and describes how to use the DIF to upload service master data from a CSV file. 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
- WE20 – Set up partner profiles
- WE21 – Set up ports
- DRFIMG – IMG Data Replication Framework
- IDMIMG – IMG Key Mapping

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## Introduction

Data transfer represents a collection of functions and features 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. To transfer master data and mapping information, perform the following steps:

1. Export the master data and mapping information from the source system to an XML file. This file rests on your application server.
2. Copy the XML file from the application server of the source system to the application server of your target system.
3. Import the master data and mapping information to the target system using the Data Import Framework.

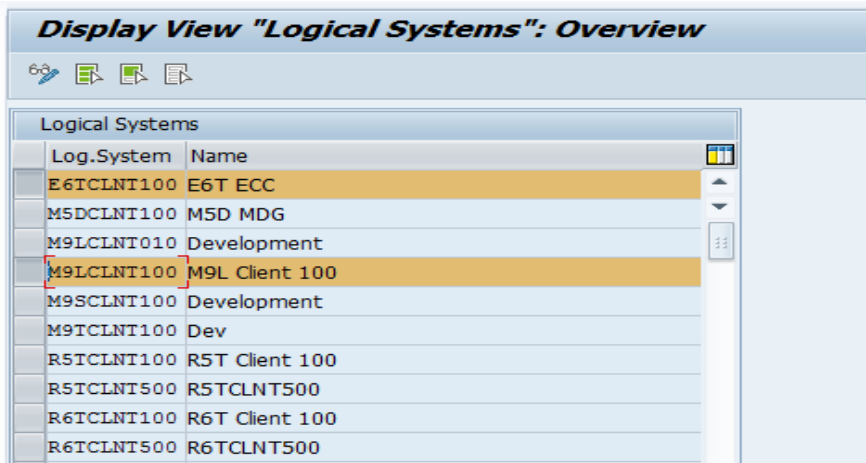
## Steps for ALE Scenario Configuration

This guide uses the system E6T and its client 100 as target system and M9L as MDG hub system. Ensure to replace system ID and client ID with your own system data.

### Define Logical Systems

Define two logical systems: MDG System (M9L) and ALE System (E6T).

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




Log.System	Name
E6TCLNT100	E6T ECC
M5DCLNT100	M5D MDG
M9LCLNT010	Development
M9LCLNT100	M9L Client 100
M9SCLNT100	Development
M9TCLNT100	Dev
R5TCLNT100	R5T Client 100
R5TCLNT500	R5TCLNT500
R6TCLNT100	R6T Client 100
R6TCLNT500	R6TCLNT500

### 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 XML\_TEST**

Connection Test    Unicode Test    

RFC Destination: XML\_TEST

Connection Type:  TCP/IP Connection    Description:

Description

Description 1: XML Test

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: rfcexec

Start Type of External Program

☒ Default Gateway Value

☐ Remote Execution








☐ Remote Shell

☐ Secure Shell

## Define an XML Port

Run the t-code WE21 > Create an XML File type port.

**Ports in IDoc processing**

Ports	Description
Ports	
Transactional RF	
File	
ABAP-PI	
XML File	
BOMXML	MRO BOM-XML-File
EQUXMLPORT	EQU XML Port
MPMDXML	Port for MPMI
MSPTXML	MSPT XML
<b>SVRMMASTER</b>	Service Master
WCNTRXML	Workcenter-XML-File
XML HTTP	

Port: SVRMMASTER


Description: Service Master

XML format

☐ SAP Release 46

☒ Unicode

Outbound file    Outbound: Trigger

☐ Logical directory     Access test

☒ physical directory

Directory: \\ULABSMDG82\ZDIR\_SERVICE\

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 Target Client under tree node Partner Profile LS > Maintain the following settings.

Partner No. [REDACTED] SD6 200  
 Partn.Type [REDACTED] Logical system

Post Processing: Valid Processors   Classification   Telephony

Ty. [REDACTED] User  
 Agent [REDACTED] SAKELLA  
 Lang. [REDACTED] EN English

Partner Role	Message type	Message va...	Function	Test	Receiver p...	I...	Pa...	Basic type
	/UGI3/SRVMAS			<input type="checkbox"/>	SD3CLNT200	1		/UGI3/SRVMAS01

### Partner profiles: Outbound parameters

Partner No. [REDACTED]  
 Partn.Type [REDACTED] Logical system  
 Partner Role [REDACTED]

Message Type [REDACTED] /UGI3/SRVMAS Service Master Message Type  
 Message code [REDACTED]  
 Message function [REDACTED] ☐ Test

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

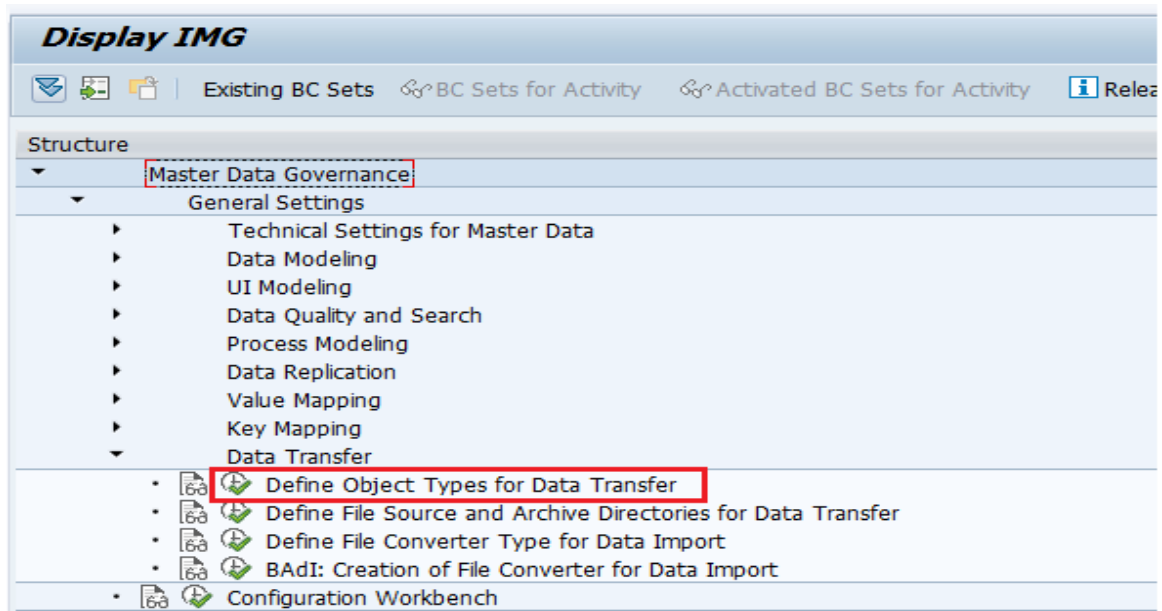
Receiver port [REDACTED] Transactional RFC [REDACTED]  
 Pack. Size [REDACTED] 1  
☐ Queue Processing

Output Mode  
☒ Pass IDoc Immediately   Output Mode 2  
☐ Collect IDocs

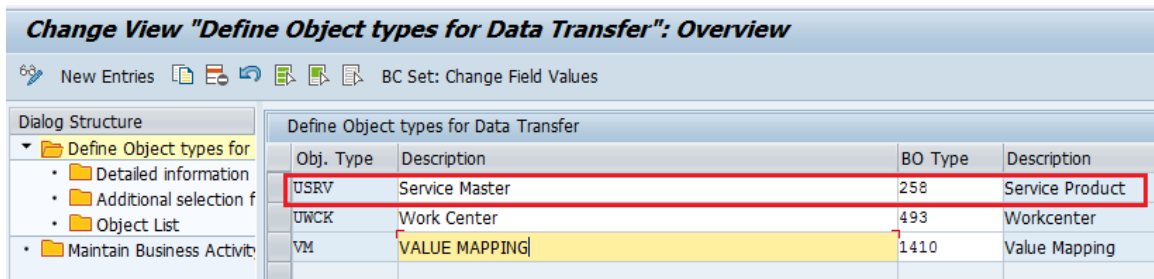
IDoc Type  
 Basic type [REDACTED] /UGI3/SRVMAS01 Service master record with t...  
 Extension [REDACTED]  
 View [REDACTED]  
☒ Cancel Processing After Syntax Error  
 Seg. release in IDoc type [REDACTED] Segment Appl. Rel. [REDACTED]

## Define Object Types

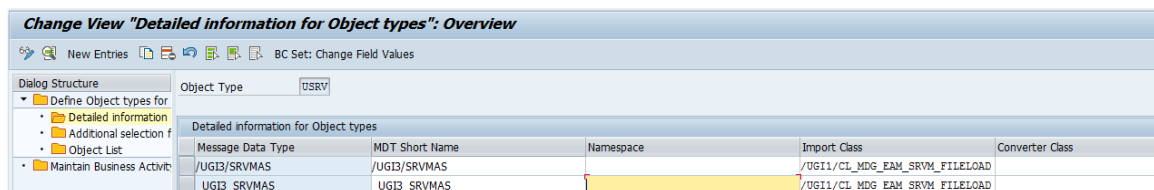
Navigate to Master Data Governance > General Settings > Data Transfer > Define Object Types for Data Transfer.



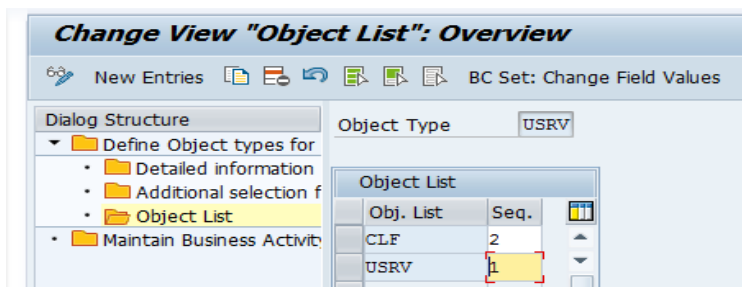
1. Create object type for BO Type 258 (Service Master).



2. Assign the Message Data Type and Import Class.



3. Provide the object list.



- Maintain the business activity for the object type USRV.

**Change View "Maintain Business Activity": Overview**

BC Set: Change Field Values

Dialog Structure

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

Obj. Type	BO Type	Bus.Acty	Description
USRV	258	USMB	Service Product
UWCK	493	UWCB	Workcenter
VM	1410		Value Mapping

## File Source and Archive directories

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

To assign directories as sources or archives, the physical directory paths must first be created in the file system (Please contact BASIS for directory paths creation). Then the SAP t-code FILE must be used to map them to logical names.

- Run the t-code AL11 to verify the directory path creation.

ZDIR_SERVICE	\\ulabsmdg82\ZDIR_SERVICE
--------------	---------------------------

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

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

New Entries

Dialog Structure

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

Create a logical file path

Logical File Path	Name
ZDIR_SERVICE	Path for Service Master
ZDIR_SERVICE_ARCHIVE	FILE PATH FOR SERVICE ARCHIVE
ZDIR_SERVICE_SOURCE	FILE PATH FOR SERVICE SOURCE

- Physical path assignment for ZDIR\_SERVICE:

**Change View "Assignment of Physical Paths to Logical Path": Details**

New Entries

Dialog Structure

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

Logical path	ZDIR_SERVICE
Name	Path for Service Master
Syntax group	WINDOWS NT Microsoft Windows NT
Physical path	\\ulabsmdg82\ZDIR_SERVICE\<FILENAME>

- Physical path assignment for ZDIR\_SERVICE\_SOURCE:

**Change View "Assignment of Physical Paths to Logical Path": Details**

New Entries

Dialog Structure

- Logical File Path Definition
  - Assignment of Physical Paths
- Logical File Name Definition
- Definition of Variables
- Syntax Group Definition
- Assignment of Operating Systems

Logical path: ZDIR\_SERVICE\_SOURCE

Name: FILE PATH FOR SERVICE SOURCE

---

Syntax group: WINDOWS NT | Microsoft Windows NT

Physical path: \\ULABSMDG82\ZDIR\_SERVICE\SOURCE\<FILENAME>

5. Physical path assignment for ZDIR\_SERVICE\_ARCHIVE:

**Change View "Assignment of Physical Paths to Logical Path": Details**

New Entries

Dialog Structure

- Logical File Path Definition
  - Assignment of Physical Paths
- Logical File Name Definition
- Definition of Variables
- Syntax Group Definition
- Assignment of Operating Systems

Logical path: ZDIR\_SERVICE\_ARCHIVE

Name: FILE PATH FOR SERVICE ARCHIVE

---

Syntax group: WINDOWS NT | Microsoft Windows NT

Physical path: \\ULABSMDG82\ZDIR\_SERVICE\ARCHIVE\<FILENAME>

## Defining Source and Logical directories

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

**Display IMG**

Existing BC Sets | BC Sets for Activity | Activated BC Sets for Activity | Release

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
    - Configuration Workbench

1. Add the data transfer directory.

**Change View "Data Transfer Directories": Overview**

New Entries

Dialog Structure

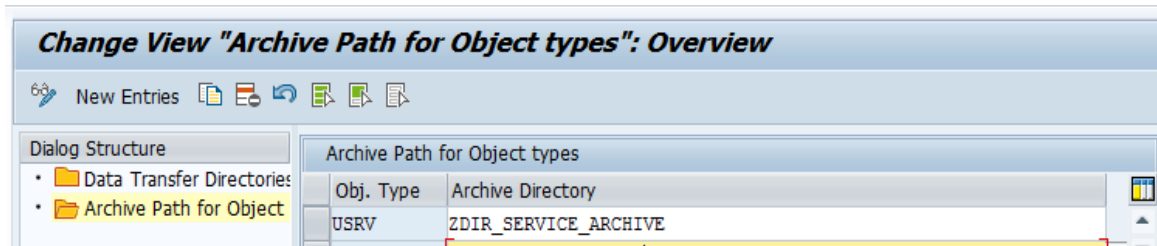
- Data Transfer Directories
- Archive Path for Object

Data Transfer Directories

Logical File Path	Descript.
ZDIR_SERVICE_SOURCE	Service master source

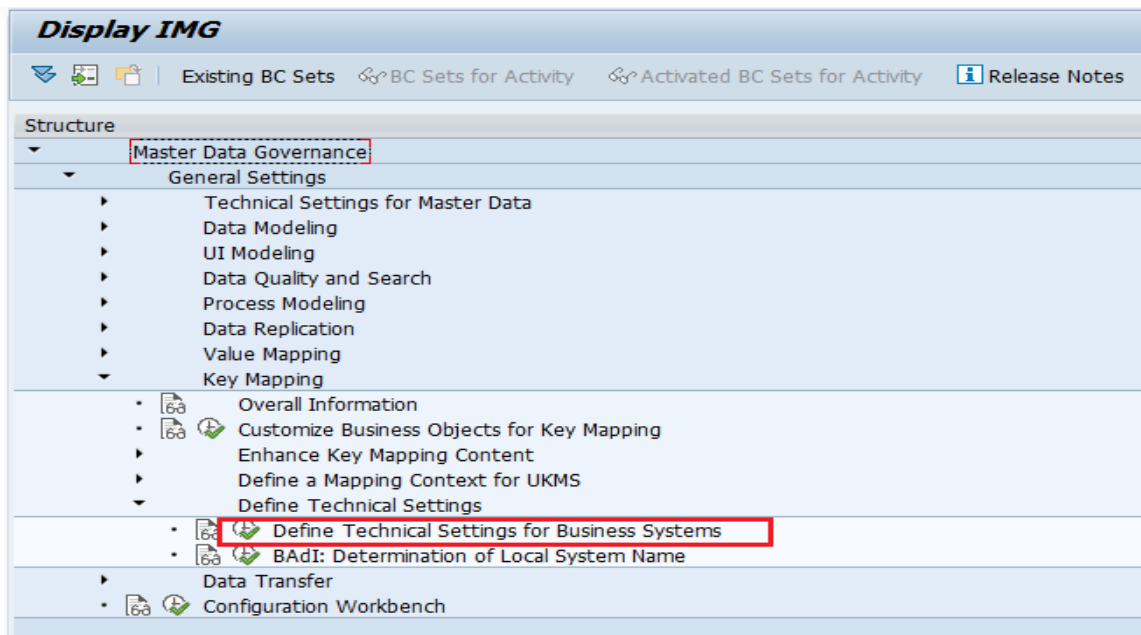


2. Add the archive path for object type USRV.

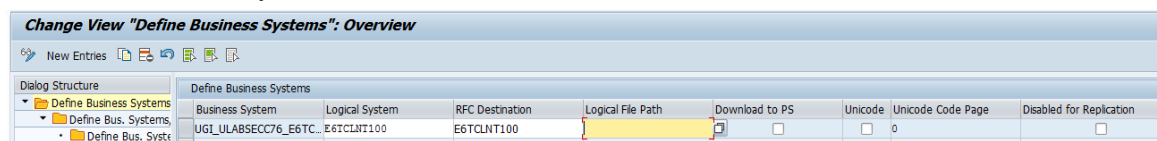


## Define the Technical Settings for Business Systems

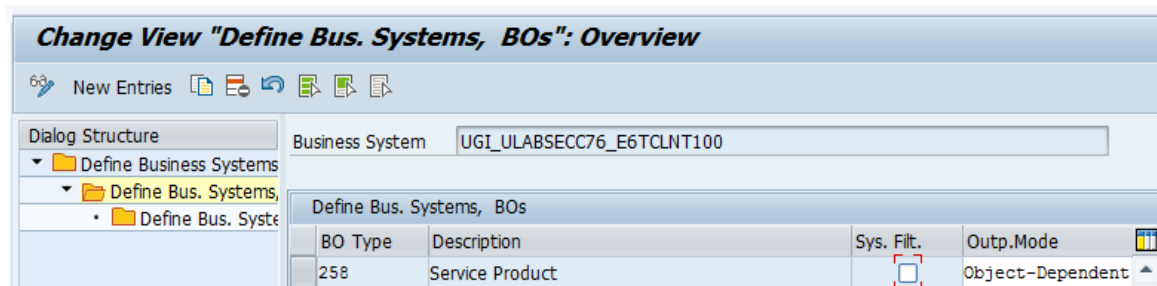
Go to > Master Data Governance > General Settings > Key Mapping > Define Technical Settings > Define Technical Settings for Business Systems.



1. Define the business system.








2. Add the BO Type for the business system.



3. For Harmonized scenarios, update the following communication channel settings.

**Change View "Define Bus. Systems, BOs, Communication Channel": Overview**

New Entries     

Dialog Structure






- Define Business Systems
  - Define Bus. Systems
    - Define Bus. Syst...

Business System: UGI\_ULABSECC76\_E6TCLNT100  
 Bus. Obj. Type: 258  
 Description: Service Product

Define Bus. Systems, BOs, Communication Channel				
C. Channel	Key Harm.	Upd. KM	Storage	Time Dep.
Replication via IDoc	Harmonized IDs (no Key Mapp...	<input checked="" type="checkbox"/>	Not Defined	Not Defined

- For Key Mapping scenarios, update the following communication channel settings.

**Display View "Define Bus. Systems, BOs, Communication Channel": Overview**

New Entries     

Dialog Structure

- Define Business Systems
  - Define Bus. Systems
    - Define Bus. Syst...

Business System: UGI\_ULABSECC76\_E6TCLNT100  
 Bus. Obj. Type: 258  
 Description: Service Product

Define Bus. Systems, BOs, Communication Channel				
C. Channel	Key Harm.	Upd. KM	Storage	Time Dep.
Replication via IDoc	Key Mapping	<input checked="" type="checkbox"/>	Not Defined	Not Defined

## Test Scenario for DIF

Use the XML file attached for uploading to application server.



Service.xml

## Data Import

Use the following steps to import data:



- Upload the file to Application Server.  
 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.

**Upload File: Parameters**

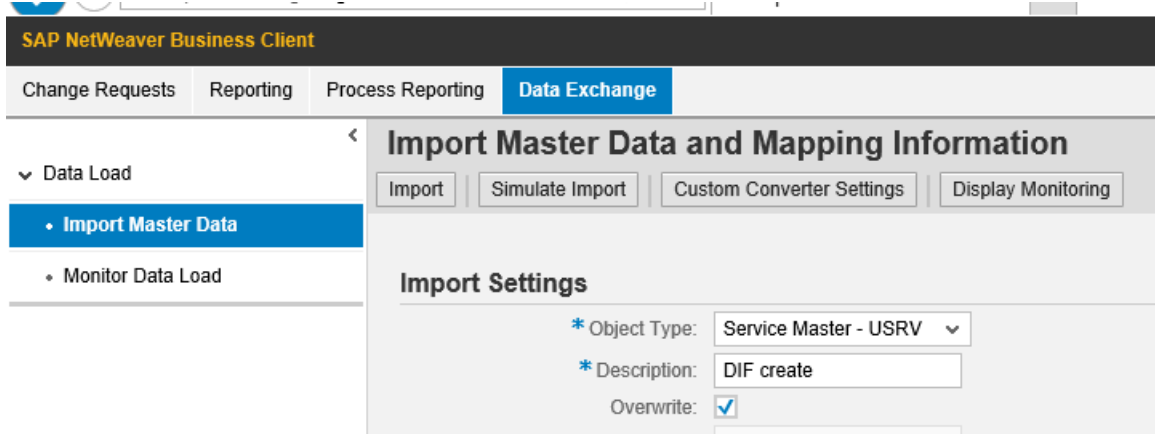
Source file on front end  
 C:\Users\sbeginum\Desktop\Service.xml

Target file on application server  
 \\ulabsmg82\ZDIR\_SERVICE\SOURCE\Service.xml

Transfer format for data: BIN ☒ Overwrite file

- Run Data Import.  
 Navigate to the data exchange tab > Data load > Import Master data.



**SAP NetWeaver Business Client**

Change Requests | Reporting | Process Reporting | **Data Exchange**

▼ Data Load

- Import Master Data**
- Monitor Data Load

**Import Master Data and Mapping Information**

Import | Simulate Import | Custom Converter Settings | Display Monitoring

**Import Settings**

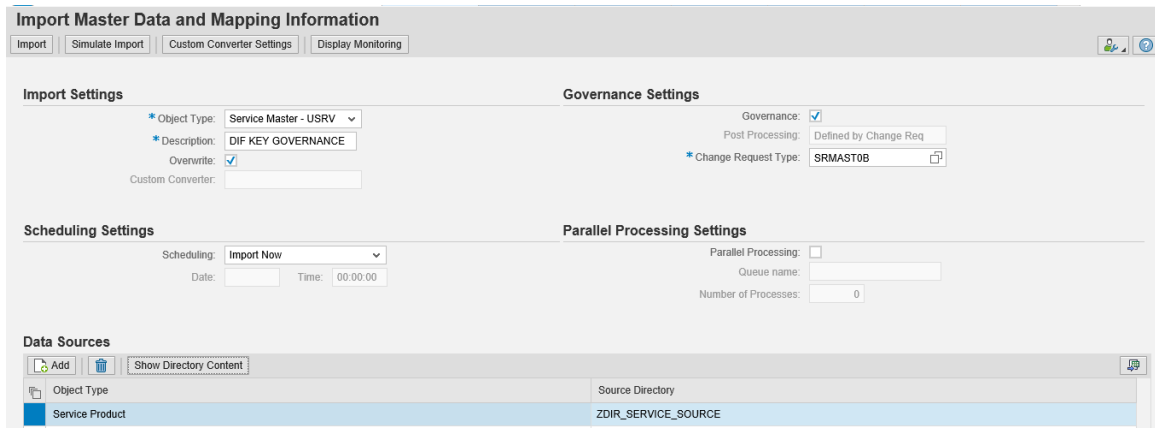
\* Object Type: Service Master - USRV ▼

\* Description: DIF create

Overwrite: ☒

3. Update the following details in the new window.

- Object type – USRV
- Provide mandatory description
- Choose overwrite check box if you want the object to be overwritten
- Select the Governance check box
- Choose the Change Request type “SRMAST0B”
- Data Sources – Add the object type Service Product and source directory ZDIR\_SERVICE\_SOURCE



**Import Master Data and Mapping Information**

Import | Simulate Import | Custom Converter Settings | Display Monitoring

**Import Settings**

\* Object Type: Service Master - USRV ▼

\* Description: DIF KEY GOVERNANCE

Overwrite: ☒

Custom Converter:

**Governance Settings**

Governance: ☒

Post Processing: Defined by Change Req

\* Change Request Type: SRMAST0B

**Scheduling Settings**

Scheduling: Import Now ▼

Date: Time: 00:00:00

**Parallel Processing Settings**

Parallel Processing: ☐

Queue name:

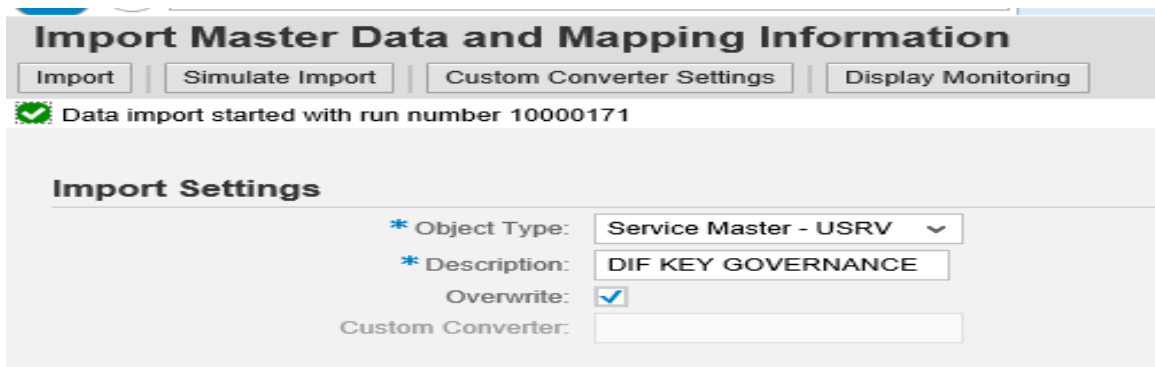
Number of Processes: 0

**Data Sources**

Add Show Directory Content

Object Type	Source Directory
Service Product	ZDIR_SERVICE_SOURCE

4. Click on the “Import” button.



**Import Master Data and Mapping Information**

Import | Simulate Import | Custom Converter Settings | Display Monitoring

✔ Data import started with run number 10000171

**Import Settings**

\* Object Type: Service Master - USRV ▼

\* Description: DIF KEY GOVERNANCE

Overwrite: ☒

Custom Converter:

5. Click on “Display Monitoring” button to check the import log.

Monitor Data Transfer										
Close										
<input checked="" type="checkbox"/> Maximum Number of Results: 100										
<input type="button" value="Search"/> <input type="button" value="Clear Entries"/> <input type="button" value="Reset to Default"/>										
Save Search As: <input type="text"/> <input type="button" value="Save"/>										
Result List										
<input type="button" value="Show Details"/> <input type="button" value="Refresh"/>										
Object Type	Run Number	Start Date	Start Time	End Date	End Time	Duration	Status	Application	User	Queue Name
Service Master	10000171	02/17/2017	00:54:32	02/17/2017	00:54:32	00:00:00	<span style="color: green;">●</span>	Data Load Import	SBEGUM	

- Click on the Run number to see details log.

Display Logs	
Close	
Data Transfer Logs	
Propagated Type/Date/Time/User	
▶ <span style="color: green;">●</span> 02/17/2017 01:54:32 [REDACTED]	
▼ <span style="color: green;">●</span> 02/17/2017 01:54:32 [REDACTED]	
<span style="color: green;">●</span> Description: DIF KEY GOVERNANCE	
<span style="color: green;">●</span> Object Type Processing Sequence: Service Product	
<span style="color: green;">●</span> Processing files from directory \\ULABSMG82\ZDIR_SERVICE\SOURCE\	
<span style="color: green;">●</span> Message Type _UGI3_SRVMAS detected for file service.xml	
<span style="color: green;">●</span> Service uploaded to staging area with change request 000000000328	

- Go to Reporting tab in NWBC, under My Change Requests options select the newly created Change Request.
- Click on Finalize Processing.

Process Change Request

Save

Finalize Processing

Send for Revision

Close

Read Only

Print Preview

Check

Run Validation

Validation Log

Related Services

Validation for change request 328 started asynchronously - [Display Help](#)

Change Request 328

Type

Import Service Master

Status

Changes to Be Executed

Overview

Changes

Notes

Attachments

Show Objects of Entity Type:

Activity number

Activity number: Objects to Be Changed

Print Version

Export

Single Processing

Mass Change

Add Row

Delete Row(s)

Display Changes

Activity

Description

Changed

\$17

Process Change Request	
Close	
<span style="color: green;">✔</span> You have finalized the processing of change request 328	
<b>What would you like to do next?</b> <a href="#">Creating of a New Change Request</a> <a href="#">Print the Change Request</a>	

- Go back to Change Requests > Select the Change Request.
- Click on Approve Change Request.

### Approve Change Request

Save Approve Reject Close Read Only Print Preview Run Validation Validation Log Related Services

Change Request 328 Type Import Service Master Status Final Check to Be Performed

Overview **Changes** Notes Attachments

Show Objects of Entity Type: Activity number


#### Activity number: Objects to Be Changed

Print Version Export Single Processing Add Row(s) Delete Row(s) Display Changes

Activity	Description
\$17	

### Approve Change Request

Close

 You have approved change request 328

**What would you like to do next?**

[Creating a New Change Request](#)

[Print the Change Request](#)

#### Details of Change Request 328 (Created Using MDG Initial Load)

Activity number Change Request Header Notes

Activity	Description
1000007	DIF Defined by CR

11. Go to the ECC system and check whether service is created.  
Run the t-code AC03 > Provide Activity number.

**Display Service 1000007**

Other Service | Expand All | Collapse All

Activity number: 1000007 | DIF Defined by CR

Service Category: Basis service | ☐ Short Txt Change Allowed

Base Unit of Measure: KG kg | ☐ Deletion Indicator

**Basic Data**

Basic Data

Mat/Srv.Grp: 02 | Material group 2: 0001 | Authorization Group: 0001

Division: 01 | Product Division 0: 0 | Tax Indicator: 0

Valuation Class: 3200 | Services

Formula: |

Graphic: |

**Standard Serv. Cat.**

**Time Mgmt**

**Purch. Data**

Purchasing Status: 01 Blocked for procurement/whse | Valid from: 02/17/2017

EAN/UPC: TEST EAN3 | EAN category: I6

**Internal Work**

Internal Work

Conversion: 26 KG <=> 24 MIS μs

**Long Txt**

Long text

Lang. to be maint.: English

## Maintain Key Mapping for Service Master

1. Run the t-code MDG\_KM\_MAINTAIN.
2. Select the business object type as 'Service Product'. Choose the target system against the business system. Provide the activity number created in target system. Click on 'Show'.

**Key Mapping Service Product : 1000012**

Save

**Object Selection**

\* Business Object Type: Service Product

\* Business System: UGI\_ULABSECC76\_E6TCLNT100

\* Object ID Type/Object ID: Service Product / 1000012

Show

**Mapped Objects**

Add Row | Change Row | Delete Row | Undo Changes

*No.	*System ID	*Business Object Type	Object ID Type	*Object ID
1	UGI_ULABSECC76_E6TCLNT100	Service Product	Service Product	1000012
2	UGI_ULABSMG82_M9TCLNT100	Service Product	Service Product	1000007

1. If no key mapping exists for the above object id, click on "Add Row" button to maintain the key mapping > Save.

## Prerequisites for Key Mapped value updation in HUB system

- Set up the background job for report RBDSTATE in client system.

## Prerequisites for Classification IDocs

- Set up the background jobs for the reports /UGI/EAM\_IDOC\_REP and RBDMANI2 in the hub system.

## Troubleshooting Key Mapping

T-code MDG\_KM\_MAINTAIN

- Select client system as the Business system for DIF.
- Enter object id value without leading zeros.