

How-To Guide: DT Import (DIF) Doc for Catalog Code Groups and Codes

Applies to

MDG Catalog code groups and codes Solutions by Prometheus Group.

Summary

MDG for Catalog code groups and codes 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 Selected Sets. Same steps can be followed for other objects in Catalog Profile.

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

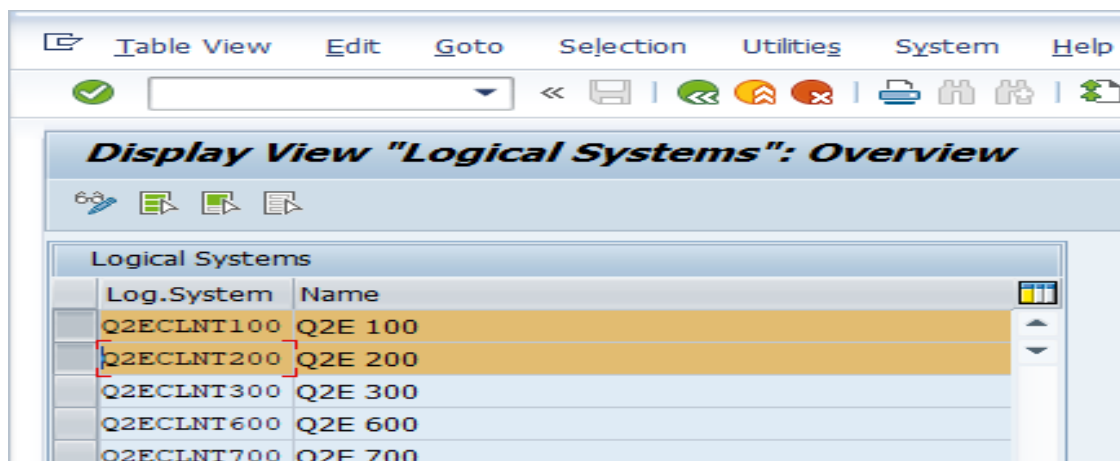
Note: The following configuration is required only when you want to generate XML file from IDOC.

This guide uses the system Q2E 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 Q2E CLNT 100 as the source and Q2E 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 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: 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, SETS_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: SETS_XML

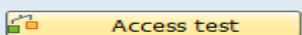
Description: Selected Sets XML port

XML format

☐ SAP Release 46

☒ Unicode

Outbound file **Outbound: Trigger**

☐ Logical directory 

☒ physical directory

Directory: /usr/sap/mdqdir/ZDIR_SETS/

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 Q2E CLNT100 under tree node Partner Profile LS > Maintain the settings for message type /UGIC3/SELECTEDSET under outbound parameters.

Partner Profiles: Outbound Parameters

Partner No. Q2E 200
 Partn. Type Logical system
 Partner Role

Message Type Message Type for Catalog Selected ...
 Message code
 Message function ☐ Test

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

Receiver port Transactional RFC
 Pack. Size

☐ Queue Processing

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

IDoc Type
 Basic type ☐ IDoc for Catalog Selected Sets
 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 Activity

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

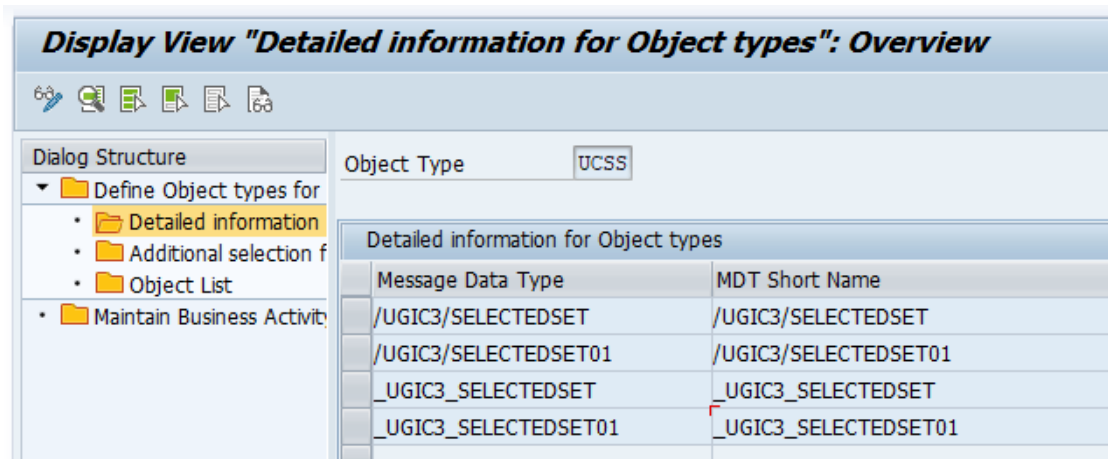
- Define Object types for
 - Detailed information f
 - Additional selection f
 - Object List

Obj. Type	Description	BO Type	Description
DCSS	Catalog Selected Sets	/UGICP/CS	Catalog Selected Sets
UDLC	Device Location	/UISU/DL	IS-U:Device Location

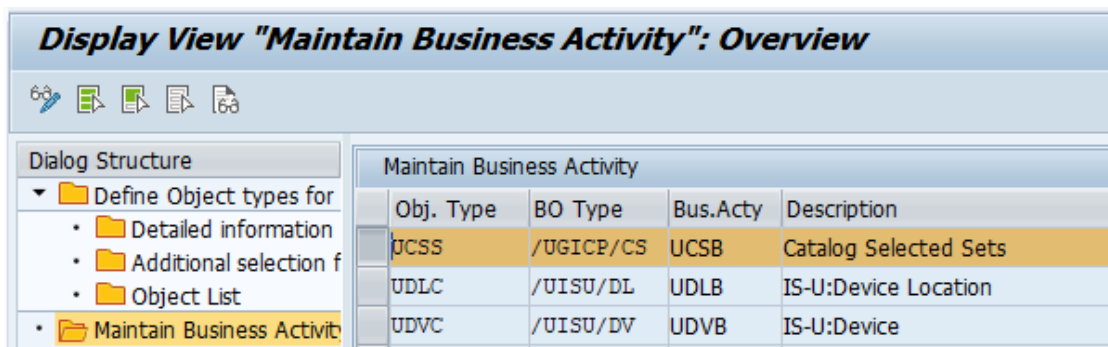
Use the following steps to set the Data Import Framework.

1. Click on sub-node “Detailed information for Object Types”

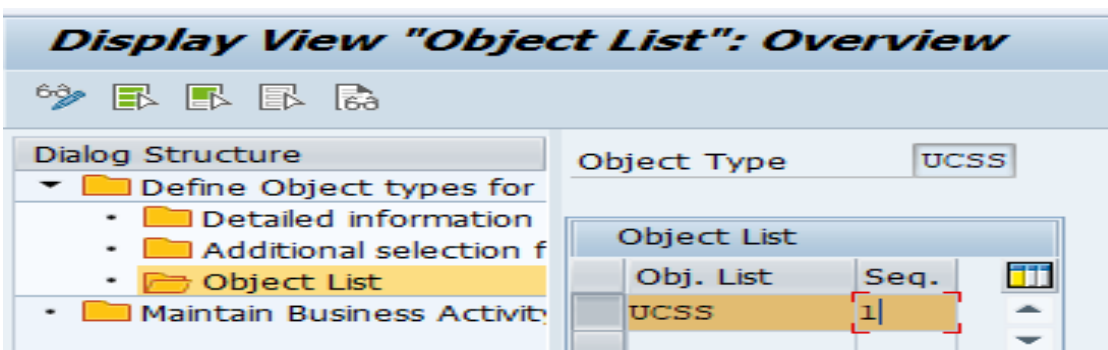
2. Enter the message types to be recognized in the file while importing the data.



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:

ZDIR_SETS	/usr/sap/mdgdir/ZDIR_SETS
-----------	---------------------------

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

Dialog Structure Logical File Path Definition Assignment of Physical Path Logical File Name Definition Definition of Variables Syntax Group Definition		Create a logical file path	
Logical File Path		Name	
ZDIR_SETS		ZDIR_SETS	

7. Assign physical path for ZDIR_SETS.

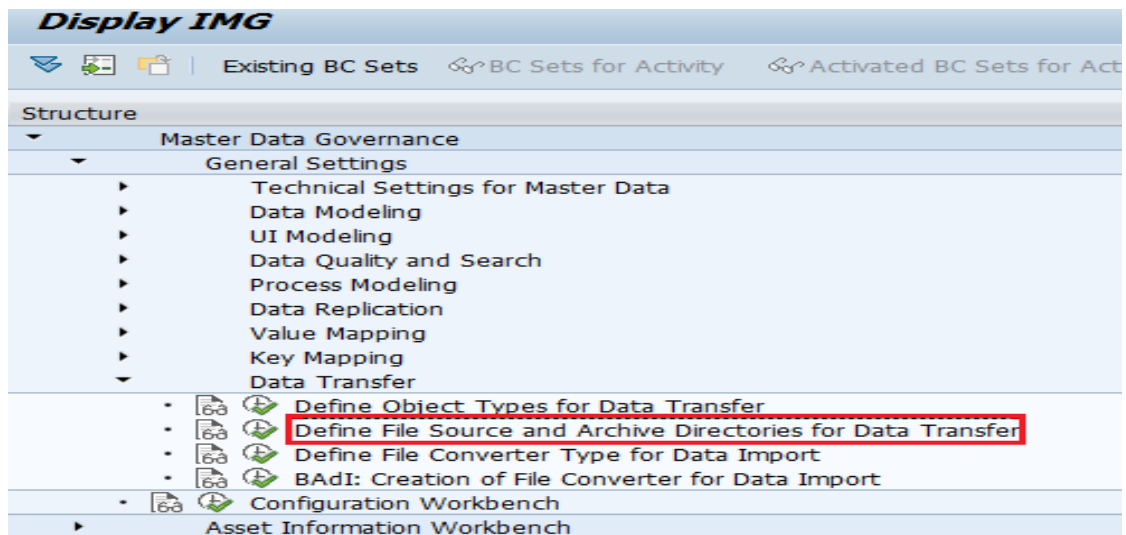
Dialog Structure		Logical path		ZDIR_SETS
Logical File Path Definition		Name		ZDIR_SETS
Assignment of Physical Path		Syntax group		UNIX Unix compatible
Logical File Name Definition		Physical path		/usr/sap/mdgdir/ZDIR_SETS/<FILENAME>
Definition of Variables				
Syntax Group Definition				
Assignment of Operating System				

8. Assign physical path for ZDIR_SETS_ARCHIVE.

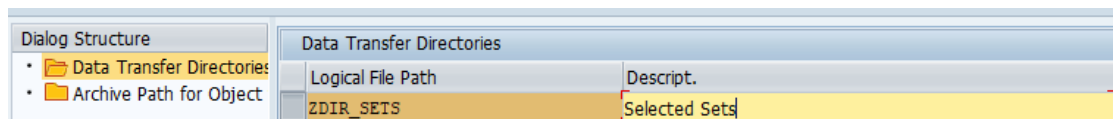
Dialog Structure		Logical path		ZDIR_SETS_ARCHIVE
Logical File Path Definition		Name		ZDIR_SETS_ARCHIVE
Assignment of Physical Path		Syntax group		UNIX Unix compatible
Logical File Name Definition		Physical path		/usr/sap/mdgdir/ZDIR_SETS_ARCHIVE/<FILENAME>
Definition of Variables				
Syntax Group Definition				
Assignment of Operating System				

Defining Source and Logical Directories

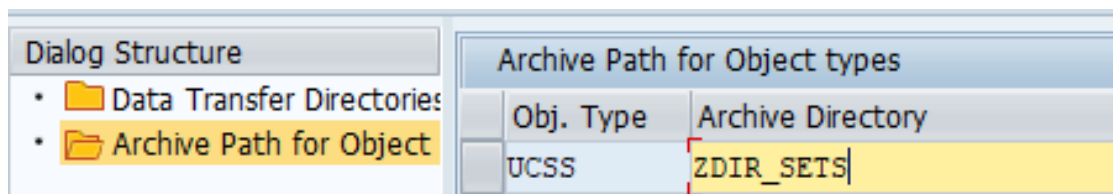
Go to MDGIMG > Master data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.



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

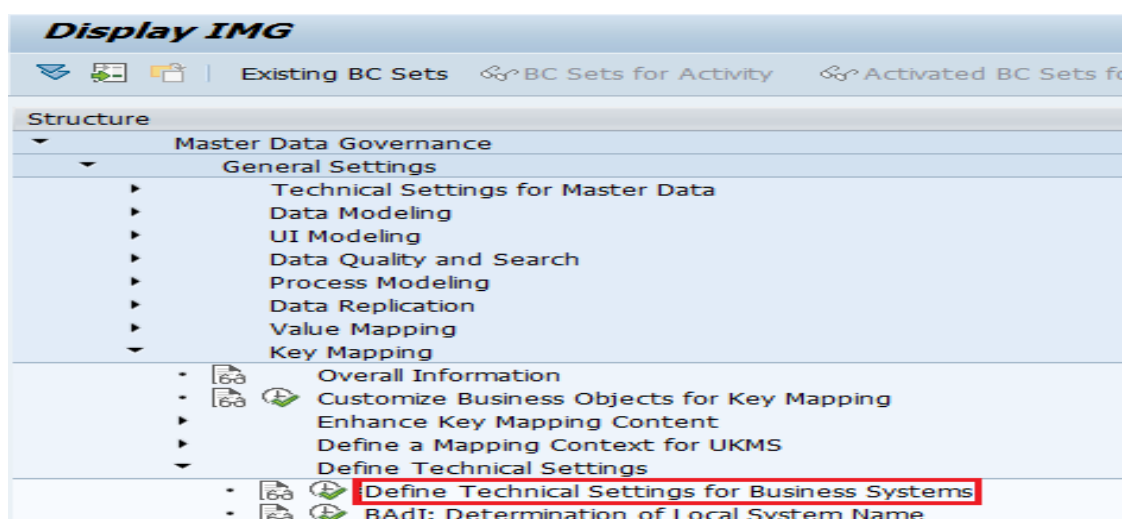


2. Click on Archive Path Object Types to maintain the archiving path of files used.



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.

Display View "Define Business Systems": Overview

Define Business Systems				
Business System	Logical System	RFC Destination	Logical File Path	
Q2E_ulabhqn2_Q2ECLNT200	Q2ECLNT200	Q2ECLNT200		
Q2E_ulabhqn2_Q2ECLNT300	Q2ECLNT300	Q2ECLNT300		

2. Add the Catalog Selected Sets BO Type for the Business System:

- BO Types /UGICP/CS (Selected Sets)

Display View "Define Bus. Systems, BOs": Overview

Define Bus. Systems, BOs			
BO Type	Sys. Filt.	Outp. Mode	
/UGICP/CS	<input type="checkbox"/>	Object-Dependent Default	

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

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

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

Note: For Selected Sets 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.

ZDIR_SETS	/usr/sap/mdgdir/ZDIR_SETS
-----------	---------------------------

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

Directory: /usr/sap/mdgdir/ZDIR_SETS



Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			51	q2eadm	23.11.2020	18:57:12	.
			4096	q2eadm	23.11.2020	16:07:25	..
			6	q2eadm	23.11.2020	16:07:25	ARCHIVE
X			1510	q2eadm	23.11.2020	18:57:12	SETS_NEW
			6	q2eadm	23.11.2020	16:07:25	SOURCE



- 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 ☐ Overwrite file

- Click on "Download" button, file will be downloaded in the specified location.

The following steps are required to run the DIF for Selected Sets.

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

Use the following steps to test the DIF:



- Received below IDoc XML for DIF Import from client system:
- Upload the file.
- 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

Target file on application server

Transfer format for data ☒ Overwrite file

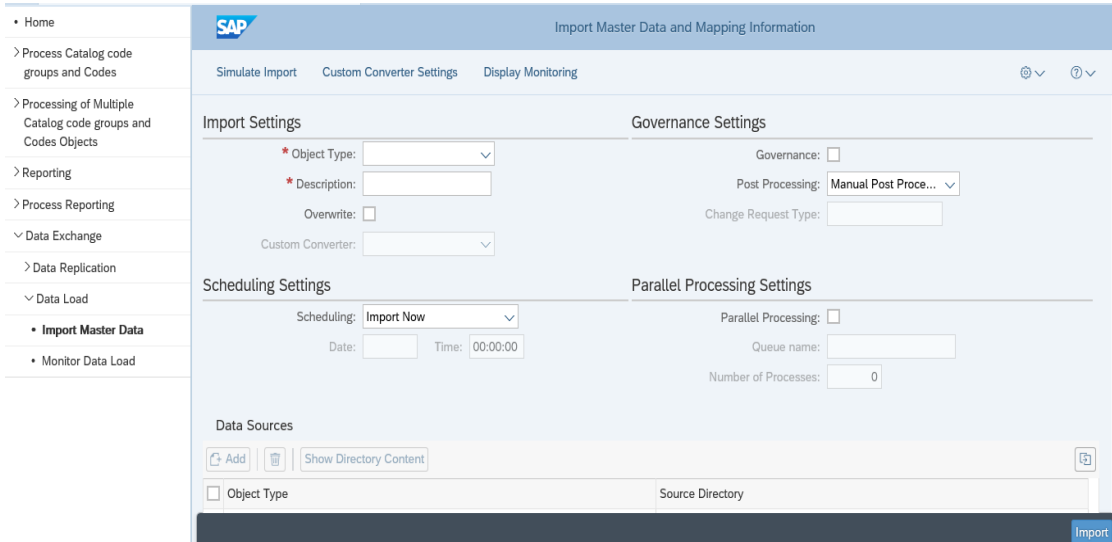
4. Check file in AL11 System.

X		1510	q2eadm	23.11.2020	18:57:12	SETS_NEW
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Data Import

Use the following steps to import data:

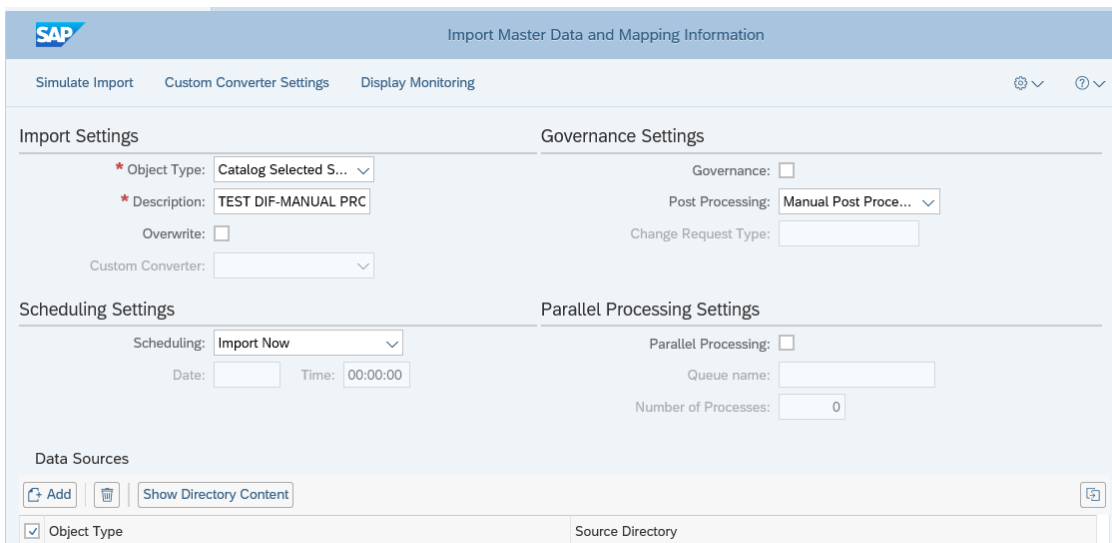
1. Navigate to the Data Exchange tab > Data load > Import Master data



2. Scenario 1 – Manual Post Processing.

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

- Object type – UCSS
- 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 Catalog Selected Sets and Source Directory ZDIR_SETS as mentioned in below screenshot



Data Sources

[Add](#) [Show Directory Content](#)

<input checked="" type="checkbox"/> Object Type	Source Directory
<input checked="" type="checkbox"/> Catalog Selected Sets	ZDIR_SETS

b. Click on “Import” button.

✔ Data import started with run number 10000024

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

Propagated Type/Date/Time/User	
<input type="radio"/> > 25.11.2020 00:59:29 [REDACTED]	
<input type="radio"/> > 25.11.2020 00:59:29 [REDACTED]	
<input type="radio"/> Description: TEST DIF-MANUAL PROCESS	
<input type="radio"/> Object Type Processing Sequence: Catalog Selected Sets	
<input type="radio"/> Processing files from directory /usr/sap/mdgdir/ZDIR_SETS/	
<input type="radio"/> Message Type _-UGIC3_-SELECTEDSET01 detected for file SETS_NEW	
<input type="radio"/> IDoc is processed successfully for Selected set SELSET9	

d. Enter the t-code QS55 to see Selected Sets is created.

Dialog Structure

- Selected Sets
 - Selected Set Codes

Catalog 1 Characteristic Attributes

Plant 0001 Werk 0001

Select...	Short Text	Long Txt...	Status	Usage Indicator
SELSET9	Selected set of colors		Released	

Create/change Long Text Classification

Dialog Structure

- Selected Sets
 - Selected Set Codes

Catalog 1 Characteristic Attributes

Plant 0001 Werk 0001

Selected Set SELSET9 Selected set of colors

Code Gr...	Code	Short Text for Code	L...	Docu...	Valuation Code	Defect Class
COLOR	1	Red			Accepted (OK)	
COLOR	10	Brown			Accepted (OK)	

3. Scenario 2 – Defined by Change Request without governance

a. Update the following details in the new Data Import screen

- Object type – UCSS
- 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 “CSMAST0B”
- Data Sources – Add the Object Type Catalog Selected Sets and Source Directory ZDIR_SETS as mentioned in below screenshot

Import Settings * Object Type: <input type="text" value="Catalog Selected S..."/> * Description: <input type="text" value="Test DIF CR"/> Overwrite: <input type="checkbox"/> Custom Converter: <input type="text"/>	Governance Settings Governance: <input type="checkbox"/> Post Processing: <input type="text" value="Defined by Change..."/> * Change Request Type: <input type="text" value="CSMAST0B"/>
Scheduling Settings Scheduling: <input type="text" value="Import Now"/> Date: <input type="text"/> Time: <input type="text" value="00:00:00"/>	Parallel Processing Settings Parallel Processing: <input type="checkbox"/> Queue name: <input type="text"/> Number of Processes: <input type="text" value="0"/>

Data Sources	
<input type="button" value="Add"/>	<input type="button" value="Show Directory Content"/>
<input checked="" type="checkbox"/> Object Type	Source Directory
<input checked="" type="checkbox"/> Catalog Selected Sets	ZDIR_SETS

b. Click on "Import" button.

✓ Data import started with run number 10000025

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="Restart Erroneous Objects"/>	
Propagated Type/Date/Time/User	
<input type="radio"/> > 25.11.2020 01:13:32	
<input type="radio"/> > 25.11.2020 01:13:32	
<input type="radio"/> Description: TEST DIF CR	
<input type="radio"/> Ungoverned fields exist in data model U1	
<input type="radio"/> Object Type Processing Sequence: Catalog Selected Sets	
<input type="radio"/> Processing files from directory /usr/sap/mdgdir/ZDIR_SETS/	
<input type="radio"/> Message Type _-UGIC3_-SELECTEDSET01 detected for file SETS_NEW	
<input type="radio"/> IDoc is processed successfully for Selected set SELSET8	

d. Check in the t-code QS55 to see Selected Sets is created.

Display View "Selected Set Codes": Overview						
<input type="button" value="Create/change"/> <input type="button" value="Long Text"/> <input type="button" value="Classification"/>						
<div> <div>Dialog Structure</div> <div> <div>Selected Sets</div> <div>Selected Set Codes</div> </div> </div> <div> <div>Catalog</div> <div>1</div> <div>Characteristic Attributes</div> </div> <div> <div>Plant</div> <div>0001</div> <div>Werk 0001</div> </div> <div> <div>Selected Set</div> <div>SELSET8</div> <div>Selected set of colors</div> </div>						
Selected Set Codes						
Code Gr...	Code	Short Text for Code	L...	Docu...	Valuation Code	Defect Class
COLOR	1	Red			Accepted (OK)	
COLOR	10	Brown			Accepted (OK)	

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

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

- Object Type – UCSS
- 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 “CSMAST0B”
- Data Sources – Add the Object Type Catalog Selected Sets and Source Directory ZDIR_SETS as mentioned in below screenshot

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"/> Catalog Selected Sets	ZDIR_SETS

b. Click on “Import” button.

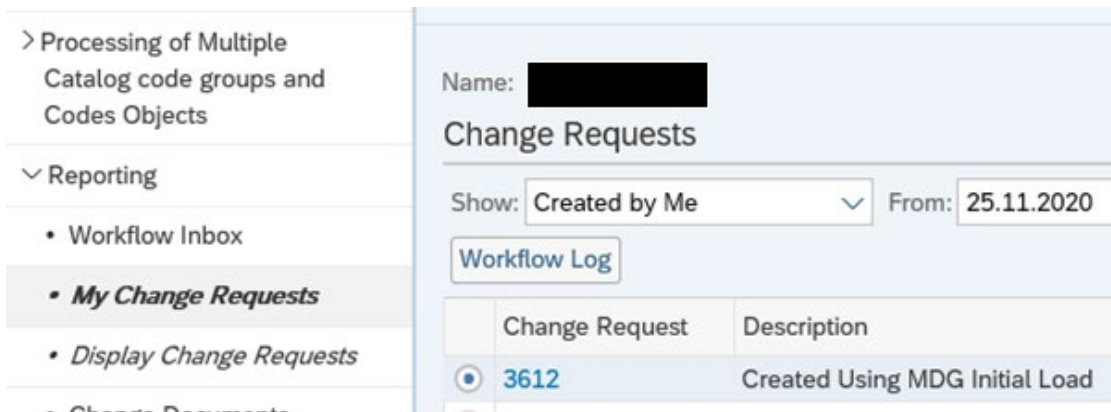
✓ Data import started with run number 10000026

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

Restart Erroneous Objects

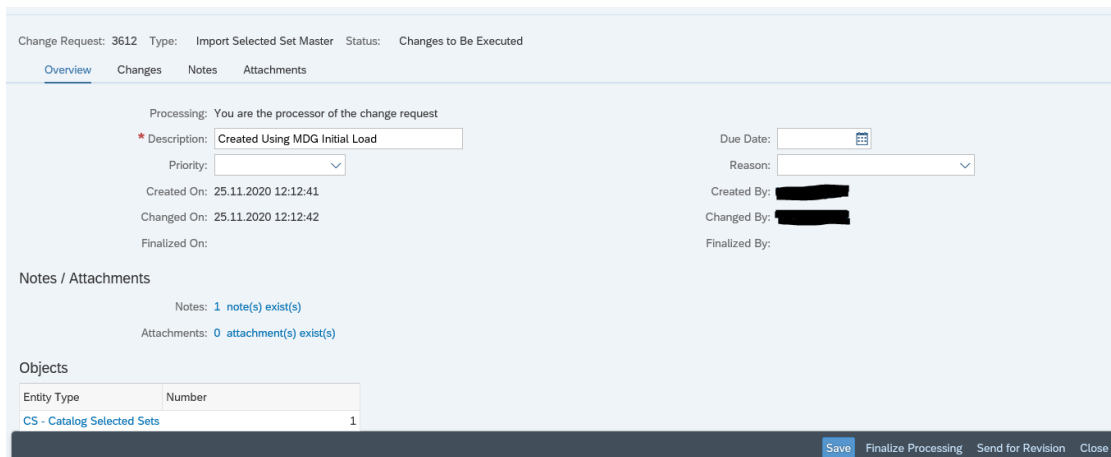
	Propagated Type/Date/Time/User
<input checked="" type="radio"/>	25.11.2020 01:42:40 [REDACTED]
<input type="radio"/>	Object type is Catalog Selected Sets
<input type="radio"/>	Description: TEST DIF- GOVERNANCE
<input type="radio"/>	Data import started with run number 10000026
<input checked="" type="radio"/>	25.11.2020 01:42:40 [REDACTED]
<input type="radio"/>	Description: TEST DIF- GOVERNANCE
<input type="radio"/>	Ungoverned fields exist in data model U1
<input type="radio"/>	Object Type Processing Sequence: Catalog Selected Sets
<input type="radio"/>	Processing files from directory /usr/sap/mdgdir/ZDIR_SETS/
<input type="radio"/>	Message Type _-UGIC3_-SELECTEDSET01 detected for file SETS_NEW

- d. Open Change Request from Reporting tab in NWBC.



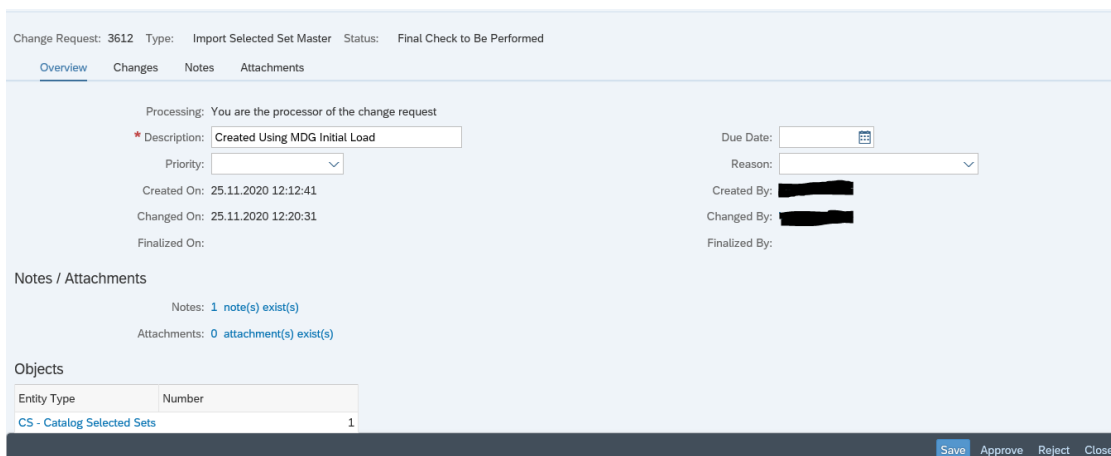
The screenshot shows the 'Reporting' tab in the NWBC interface. On the left, a sidebar lists navigation options: 'Processing of Multiple Catalog code groups and Codes Objects', 'Reporting' (expanded), 'Workflow Inbox', 'My Change Requests' (highlighted), 'Display Change Requests', and 'Change Documents'. The main area displays 'Change Requests' for the user 'Created by Me' from '25.11.2020'. A 'Workflow Log' button is visible. Below it, a table lists change requests with columns 'Change Request' and 'Description'. The first entry is '3612' with the description 'Created Using MDG Initial Load'.

- e. Click on Finalize Processing the Change Request.



The screenshot shows the 'Overview' tab of the Change Request details for request 3612. The status is 'Changes to Be Executed'. The description is 'Created Using MDG Initial Load'. The priority is set to a dropdown menu. The 'Created On' date is 25.11.2020 12:12:41, and the 'Changed On' date is 25.11.2020 12:12:42. The 'Finalized On' date is empty. The 'Due Date' is set to a calendar icon. The 'Reason' is set to a dropdown menu. The 'Created By' and 'Changed By' fields are filled with redacted names. The 'Finalized By' field is empty. The 'Notes / Attachments' section shows 1 note(s) exist(s) and 0 attachment(s) exist(s). The 'Objects' section shows a table with 1 object: 'CS - Catalog Selected Sets'.

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



The screenshot shows the 'Overview' tab of the Change Request details for request 3612. The status is 'Final Check to Be Performed'. The description is 'Created Using MDG Initial Load'. The priority is set to a dropdown menu. The 'Created On' date is 25.11.2020 12:12:41, and the 'Changed On' date is 25.11.2020 12:20:31. The 'Finalized On' date is empty. The 'Due Date' is set to a calendar icon. The 'Reason' is set to a dropdown menu. The 'Created By' and 'Changed By' fields are filled with redacted names. The 'Finalized By' field is empty. The 'Notes / Attachments' section shows 1 note(s) exist(s) and 0 attachment(s) exist(s). The 'Objects' section shows a table with 1 object: 'CS - Catalog Selected Sets'.

After Approval CR Status Changed to Final Check Approved.

- g. Check the Selected Sets

▼ **Search Criteria** Saved Searches:

Search Term:

Catalog	is	<input type="text"/>			
Plant	is	<input type="text"/>			
Selected Set	is	SELSET5			

☒ Maximum Number of Results:

Save Search As:

▼ **Search Results**

Result List: 1 record found

Standard

<input type="checkbox"/>	Pend...	Catalog	Plant	Selected Set	Short Text	Changed On...	Changed By	Created O...
<input type="checkbox"/>		1	0001	SELSET5	Selected set of c...			25.11.2020

▼ **Catalog Selected Sets** [Edit](#)

General Data

Catalog: 1 Characteristic Attributes

Plant: 0001 Werk 0001

Selected Set: SELSET5

Short Text: Selected set of colors

Status of Code Group: Released

Usage Indicator: ☐

Created On (System Date): 25.11.2020 By: SAP_WFRT

Changed On (System Date): By:

h. Enter the t-code QS55 if Selected Sets is created.

Dialog Structure

- Selected Sets
 - Selected Set Codes

Catalog Characteristic Attributes

Plant Werk 0001

Selecte...	Short Text	L...	Status	U...	
SELSET5	Selected set of colors		Released	<input type="checkbox"/>	