

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

Applies to

MDG Catalog code groups and codes Solutions by Utopia

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

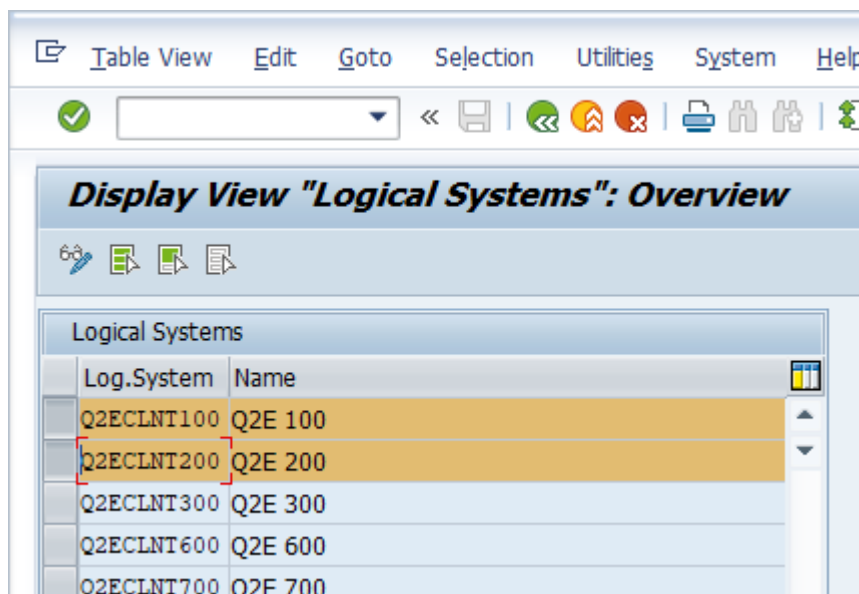
Note: The following configuration is required only when you want to generate XML file from IDOC.

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 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/

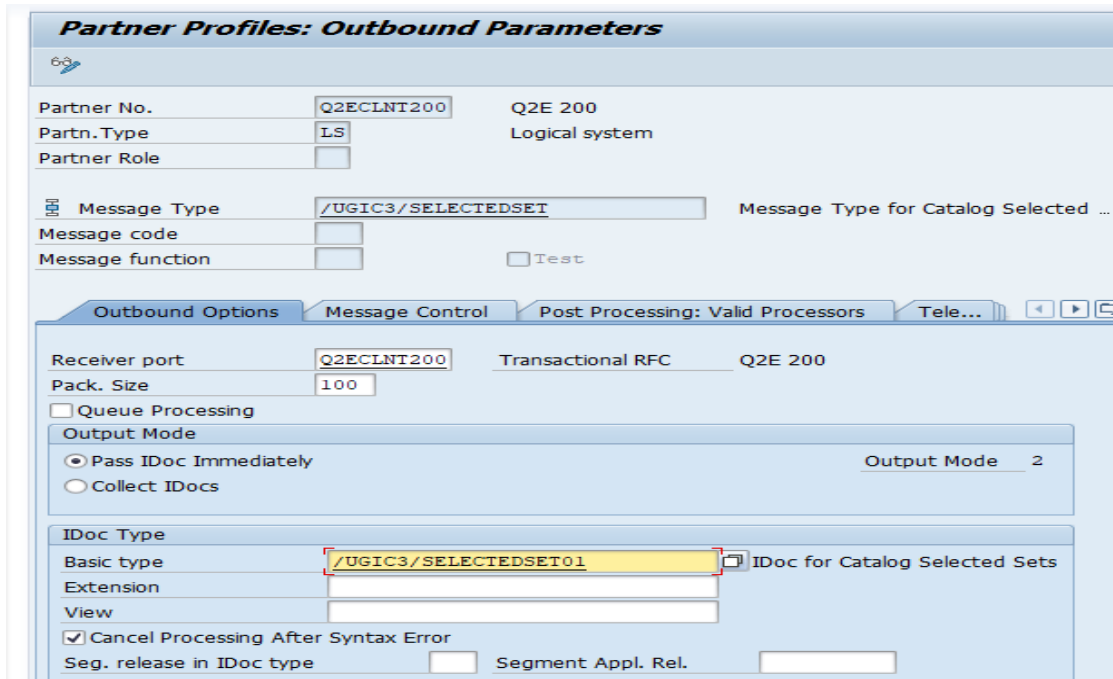
Function module EDI_PATH_CREATE_CLIENT_DOCNUM

Description Directory + file name in format T_Client_Docnum

Outbound file

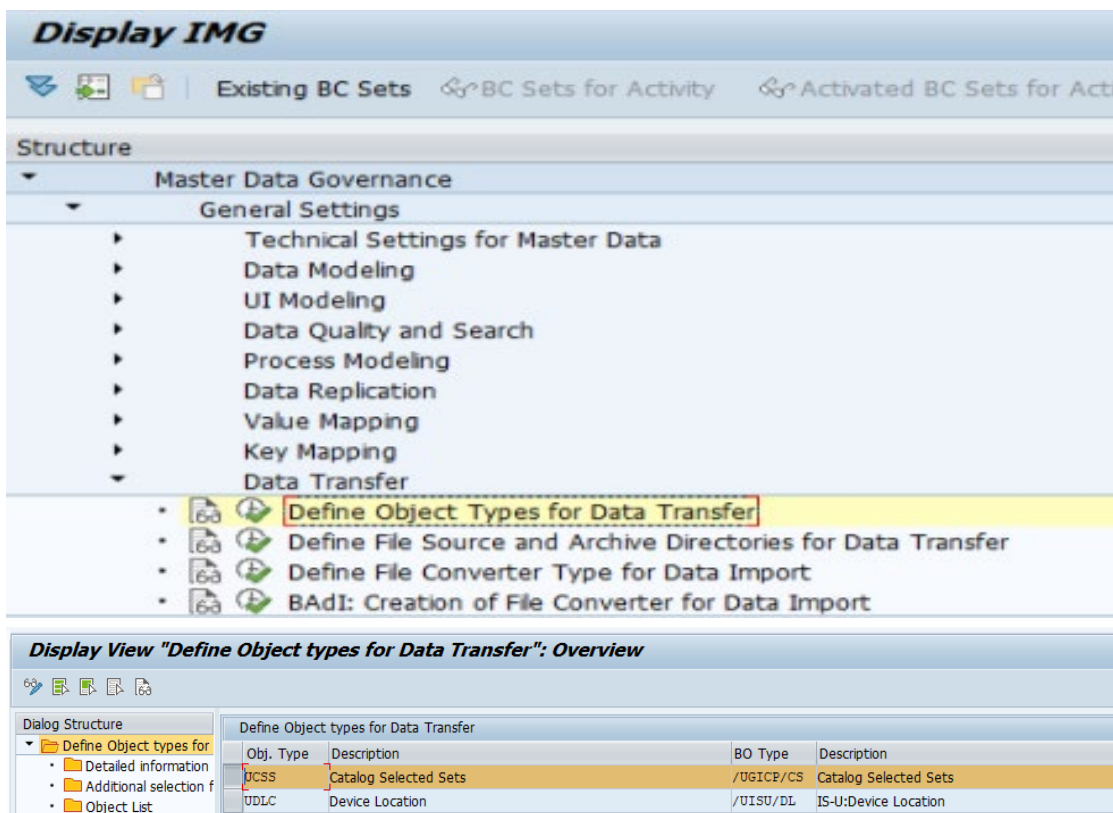
Define Partner Profiles

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.



Define Object Types

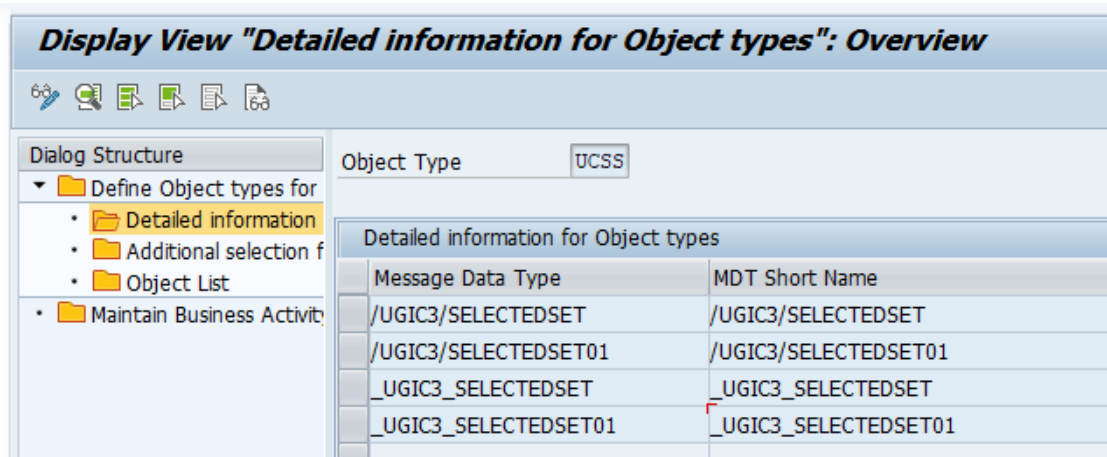
Go to MDGIMG > Master Data Governance > General Settings > Data Transfer > Select Node "Define Object Types for Data Transfer".



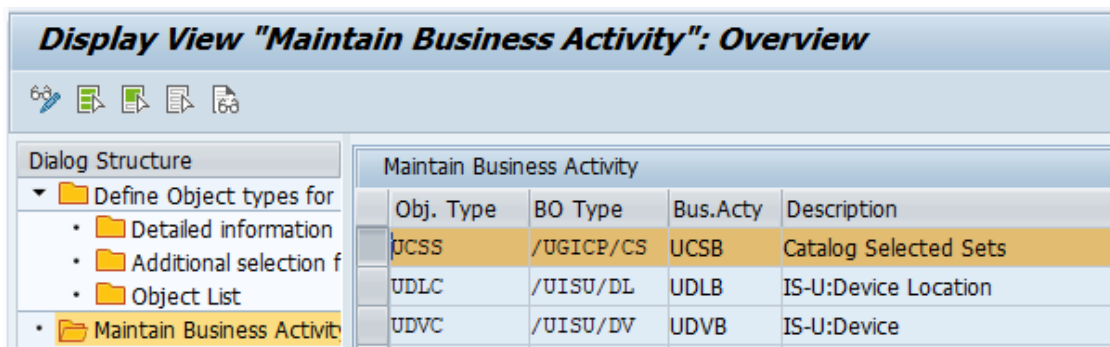
Use the following steps to set the Data Import Framework.

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

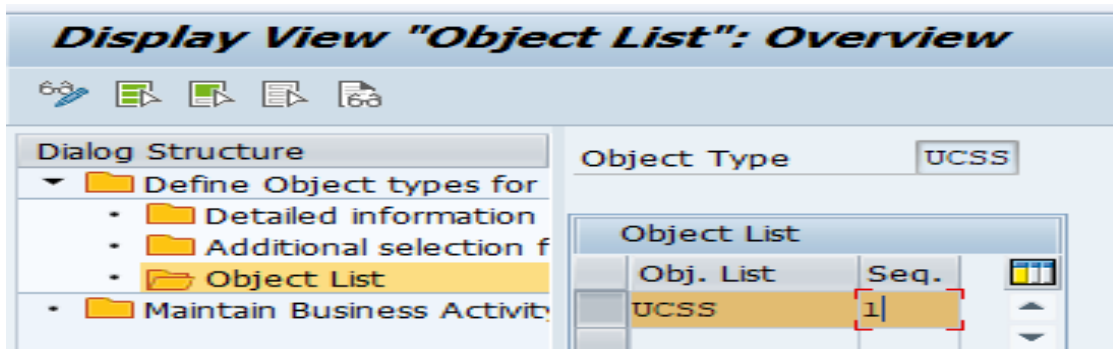
2. Enter the message types to be recognized in the file while importing the data.



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.

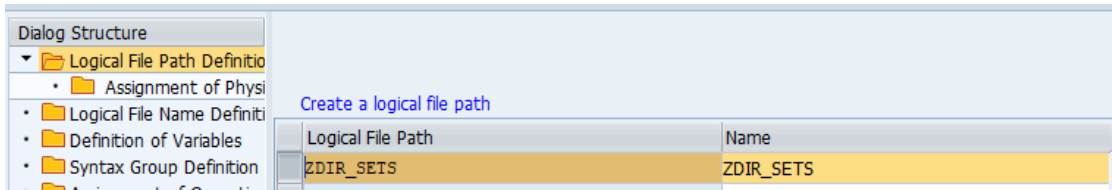
The logical file name and the logical path should be maintained to get an appropriate physical file name and physical path name.

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

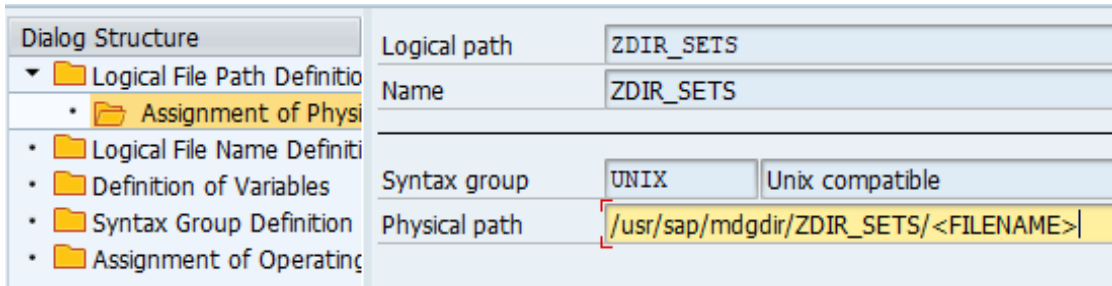
1. Define a Logical Path Name: First determine the target directory in which you want to create the archive files of a certain archiving object. The physical name of this directory is stored in a logical path name.
2. Define a Logical File Name: After creating the logical path name, you need to create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

ZDIR_SETS	/usr/sap/mdgdir/ZDIR_SETS
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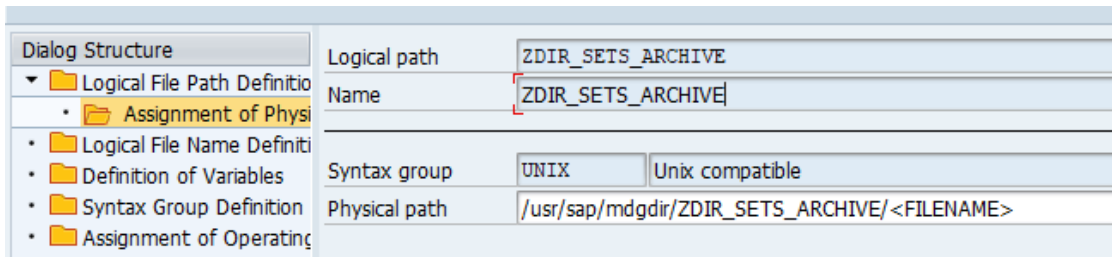
6. Run the t-code FILE to map directory path to logical names:



7. Assign physical path for ZDIR_SETS.

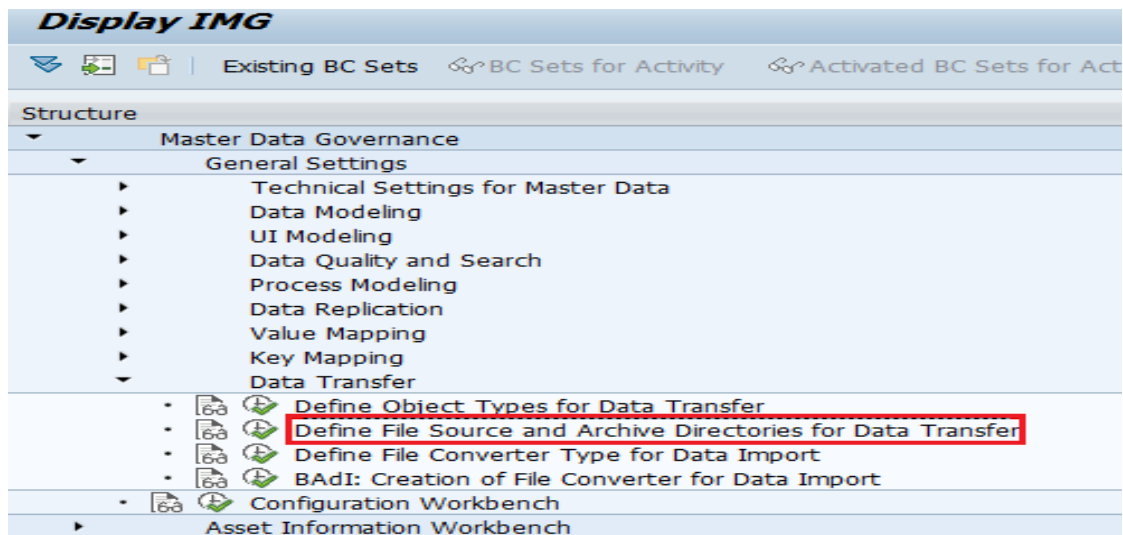


8. Assign physical path for ZDIR_SETS_ARCHIVE.

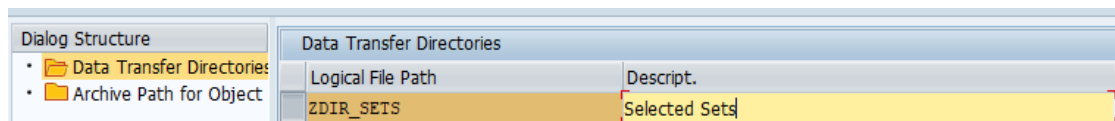


Defining Source and Logical Directories

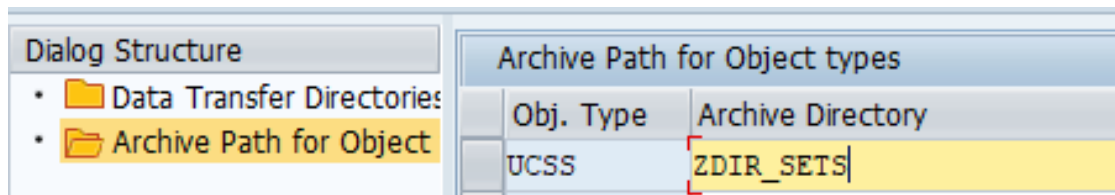
Go to MDGIMG > Master data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.



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

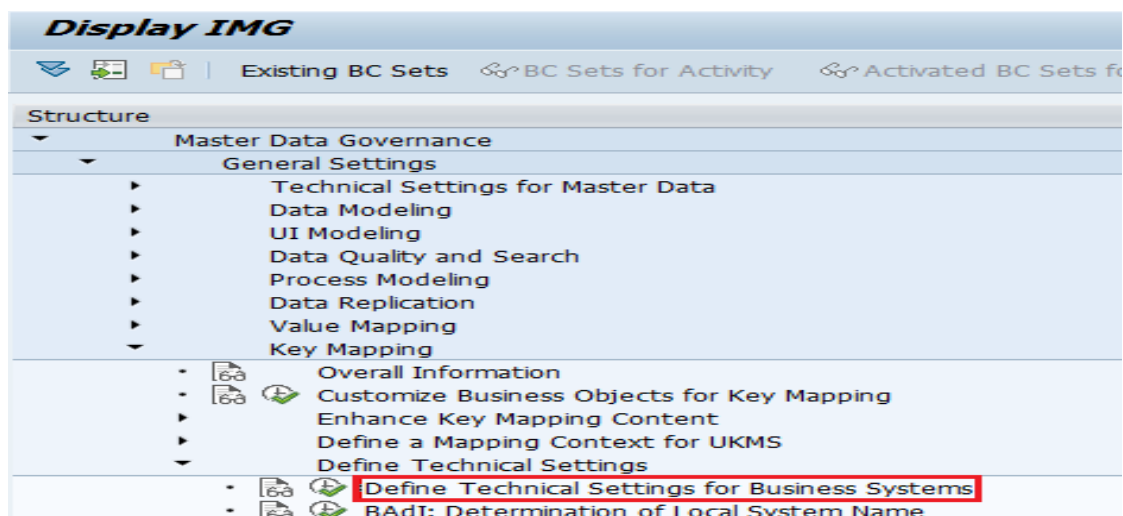


2. Click on Archive Path Object Types to maintain the archiving path of files used.



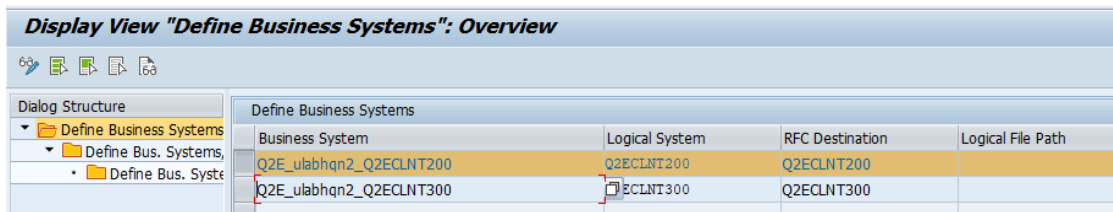
Define the Technical Settings for Business Systems

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



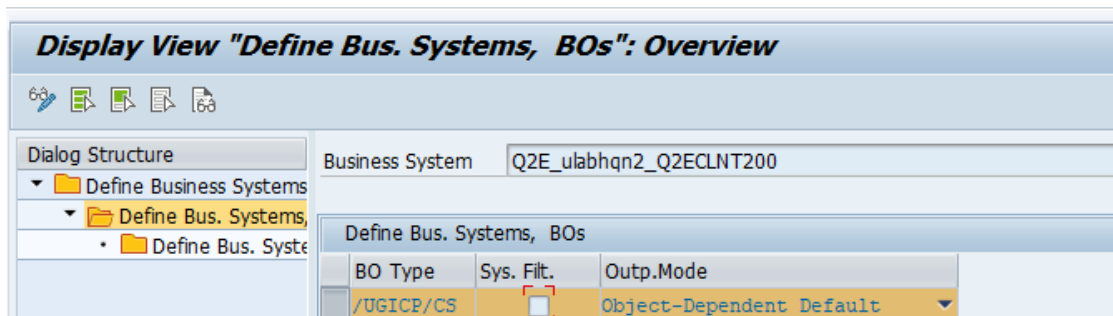
Use the following steps to define technical settings for Business Systems:

1. Define the Business System.

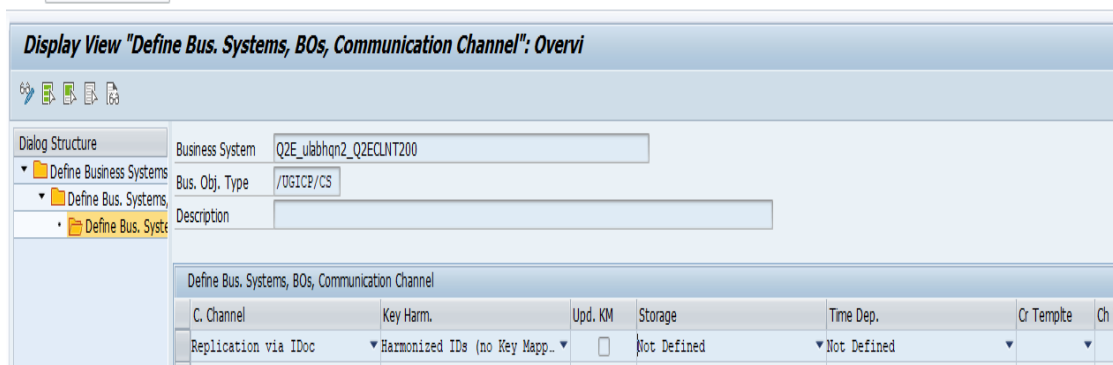


2. Add the Catalog Selected Sets BO Type for the Business System:

- BO Types /UGICP/CS (Selected Sets)



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

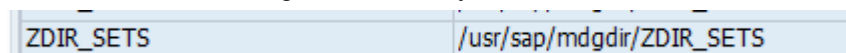


Note: For Selected Sets there is only harmonized scenario, Key Mapping scenario is not possible.

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.

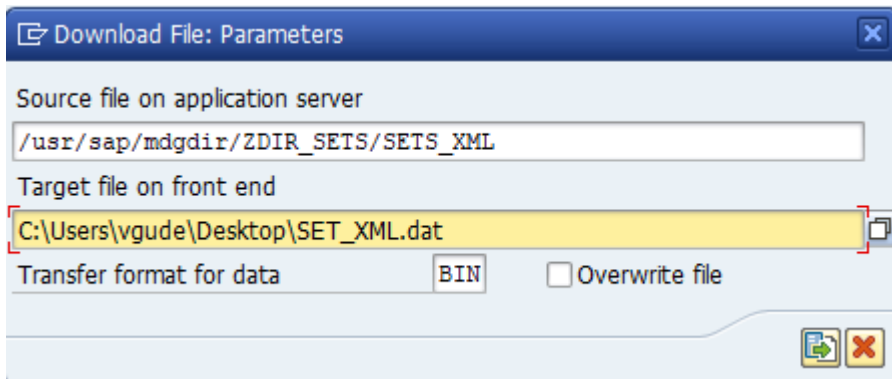


3. Open directory and get the file name to download.

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.



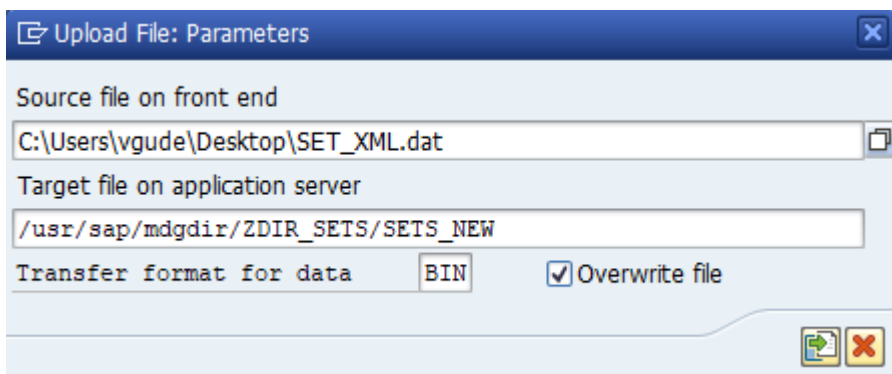
- Click on “Download” button, file will be downloaded in the specified location.

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.



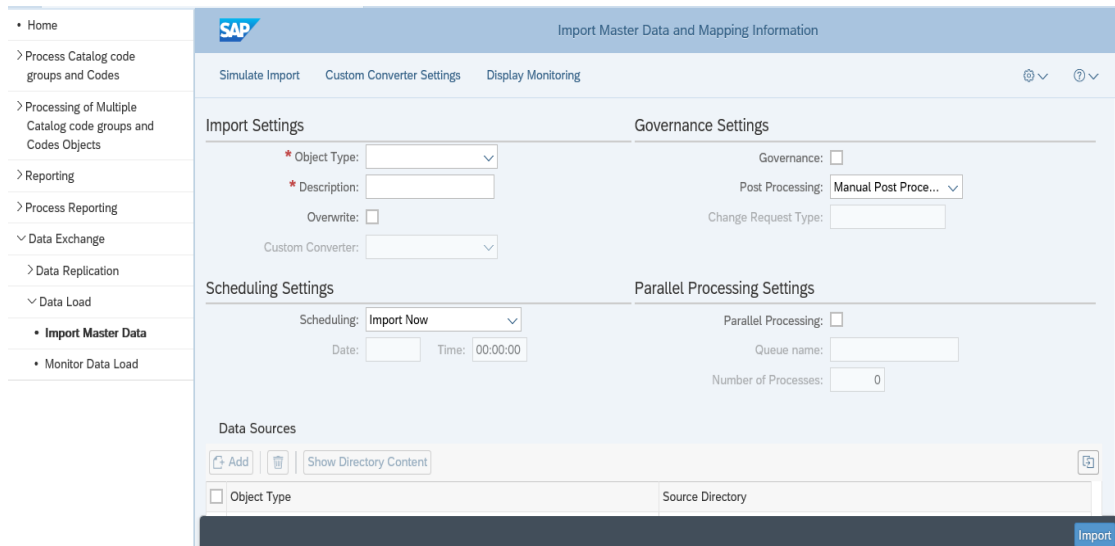
4. Check file in AL11 System.

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

Use the following steps to import data:

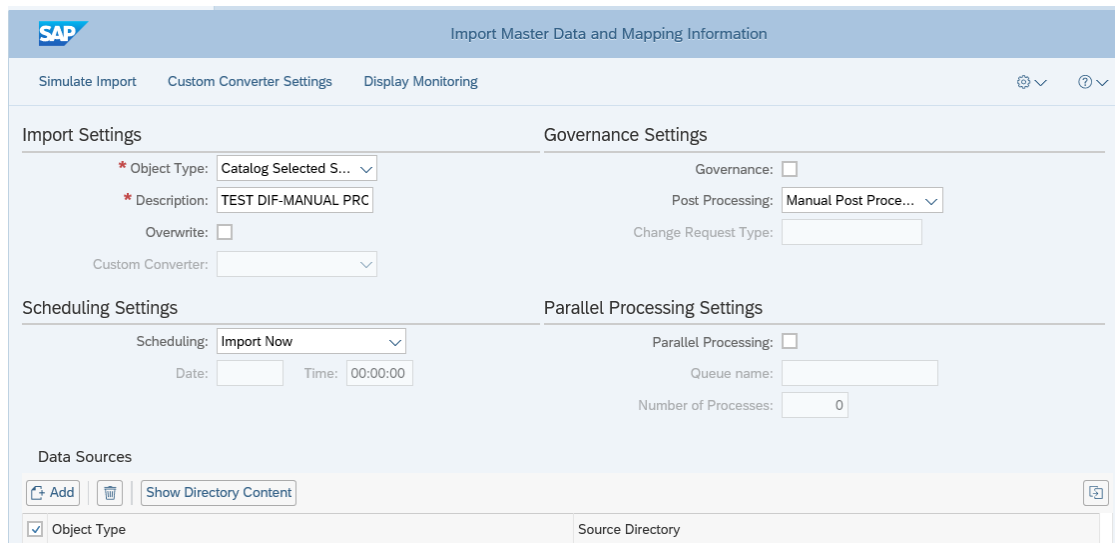
1. Navigate to the Data Exchange tab > Data load > Import Master data



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

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

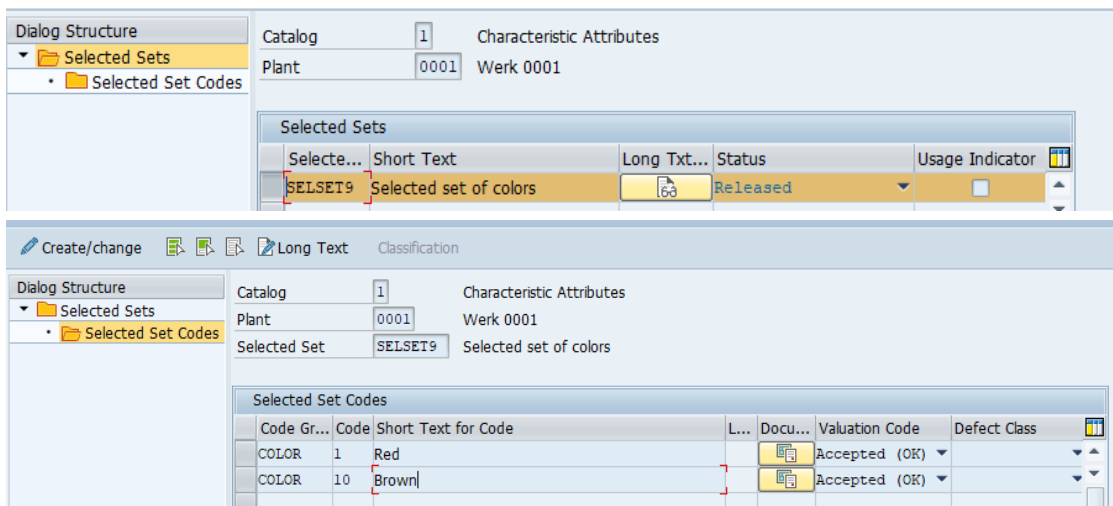
b. Click on "Import" button.

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"/> v	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.



The screenshot shows the SAP QS55 transaction. The top part displays the 'Selected Sets' table with one entry: SELSET9, 'Selected set of colors', with a status of 'Released'. The bottom part shows the 'Selected Set Codes' table with two entries: COLOR 1 (Red) and COLOR 10 (Brown), both with a status of 'Accepted (OK)'.

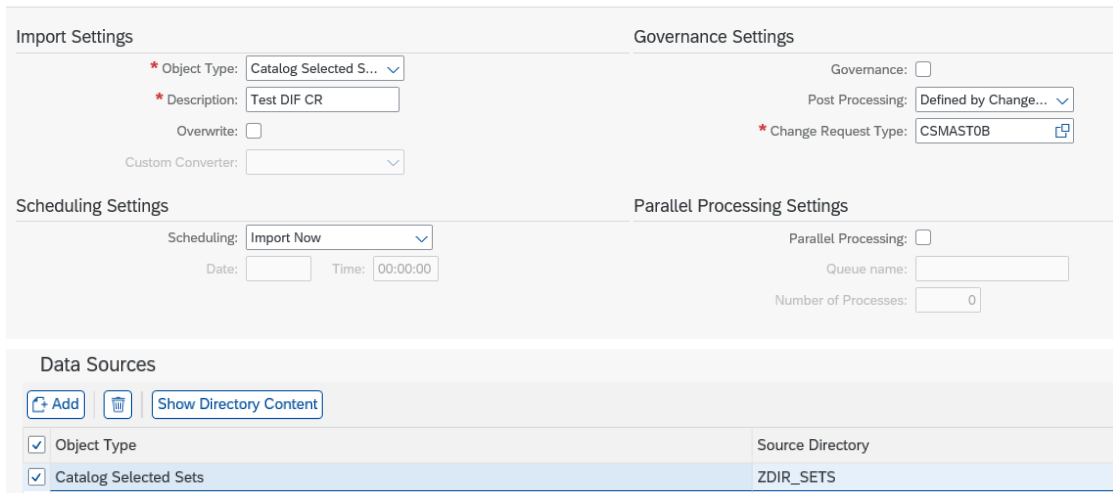
Selecte...	Short Text	Long Txt...	Status	Usage Indicator
SELSET9	Selected set of colors		Released	

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



The screenshot shows the SAP Data Import Settings screen. It is divided into several sections:

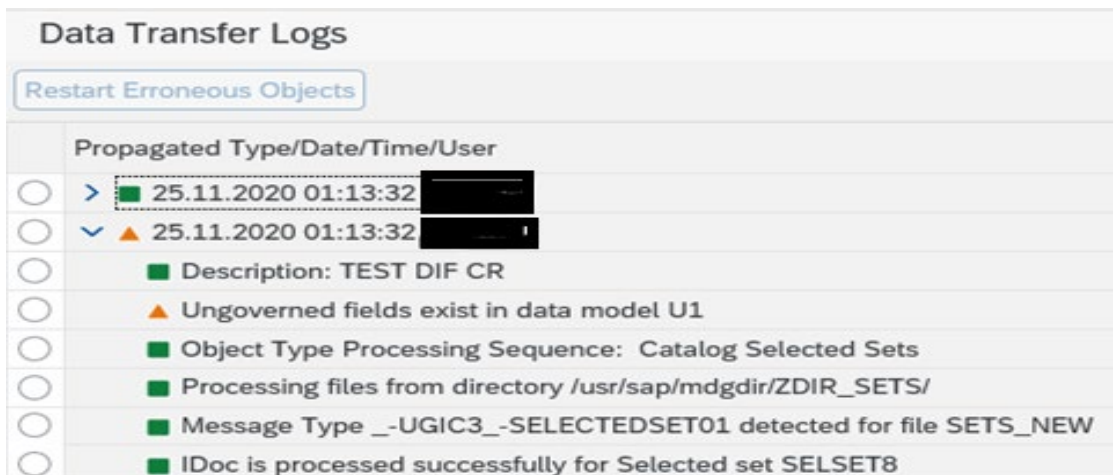
- Import Settings:**
 - * Object Type: Catalog Selected S...
 - * Description: Test DIF CR
 - Overwrite:
 - Custom Converter: [Dropdown]
- Governance Settings:**
 - Governance:
 - Post Processing: Defined by Change...
 - * Change Request Type: CSMASTOB
- Scheduling Settings:**
 - Scheduling: Import Now
 - Date: [Field] Time: 00:00:00
- Parallel Processing Settings:**
 - Parallel Processing:
 - Queue name: [Field]
 - Number of Processes: 0
- Data Sources:**
 - Buttons: Add, Show Directory Content
 - Table:

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

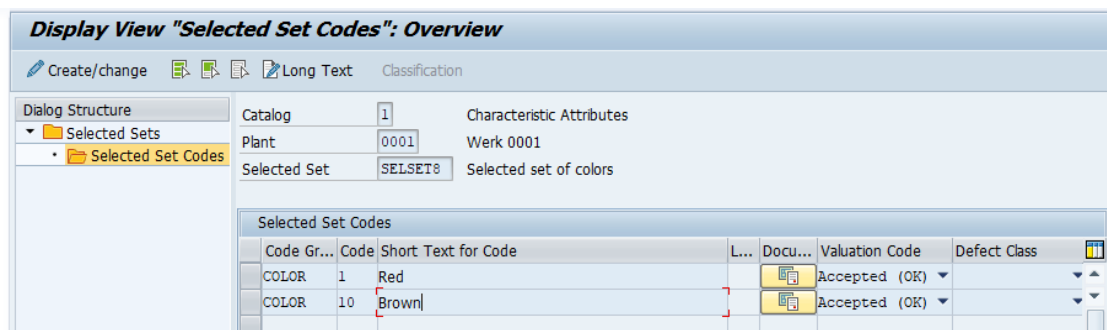
c. Click on "Display Monitoring" button to check the import log > Click on Run number to see details log.



The screenshot shows the SAP Data Transfer Logs screen. It includes a "Restart Erroneous Objects" button and a table of logs:

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

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



The screenshot shows the SAP Display View "Selected Set Codes": Overview. It includes a navigation pane and a main table:

Dialog Structure: Selected Sets > Selected Set Codes

Classification: Catalog 1, Plant 0001, Selected Set SELSET8

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











Object Type	Source Directory
<input checked="" type="checkbox"/> Object Type	
<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' section of the NWBC interface. In the left sidebar, 'My Change Requests' is highlighted. The main content area shows a 'Change Requests' section with a 'Name' field (redacted), a 'Show:' dropdown set to 'Created by Me', and a 'From:' date field set to '25.11.2020'. Below this is a 'Workflow Log' button and a table with two columns: 'Change Request' and 'Description'. One row is selected, showing '3612' and 'Created Using MDG Initial Load'.

e. Click on Finalize Processing the Change Request.

This screenshot shows the 'Finalize Processing' screen for Change Request 3612. The status is 'Changes to Be Executed'. The interface includes tabs for 'Overview', 'Changes', 'Notes', and 'Attachments'. The main area contains fields for 'Description' (Created Using MDG Initial Load), 'Priority', 'Created On', 'Changed On', 'Finalized On', 'Due Date', 'Reason', 'Created By', 'Changed By', and 'Finalized By'. Below these are sections for 'Notes / Attachments' and 'Objects'. At the bottom, a dark bar contains buttons for 'Save', 'Finalize Processing', 'Send for Revision', and 'Close'. The 'Finalize Processing' button is highlighted in blue.

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

This screenshot shows the 'Approve' screen for Change Request 3612. The status is 'Final Check to Be Performed'. The interface is similar to the previous screenshot but with the status updated. The 'Approve' button in the bottom dark bar is highlighted in blue.

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

<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"/>