How-To Guide: DT Import (DIF) Doc for EAM BOM

Applies To

MDG EAM Solutions by Prometheus Group

Summary

MDG for EAM include standard implementations of the Data Importing 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 Importing Framework for BOM. 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 t-codes:

- MDGIMG: IMG Master Data Governance
- FILE : Logical File Path Definition
- IDMIMG : IMG Key Mapping

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Company: Prometheus Group

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Table of Contents

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

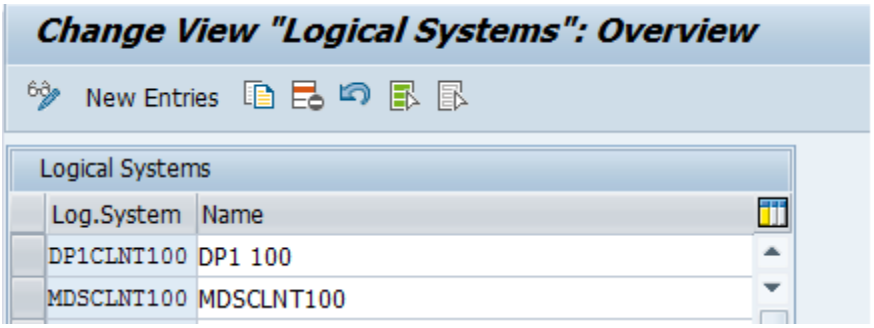
The following configuration is required only when you want to generate XML file from IDoc.

This guide uses the system S23 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 steps to define the logical systems:

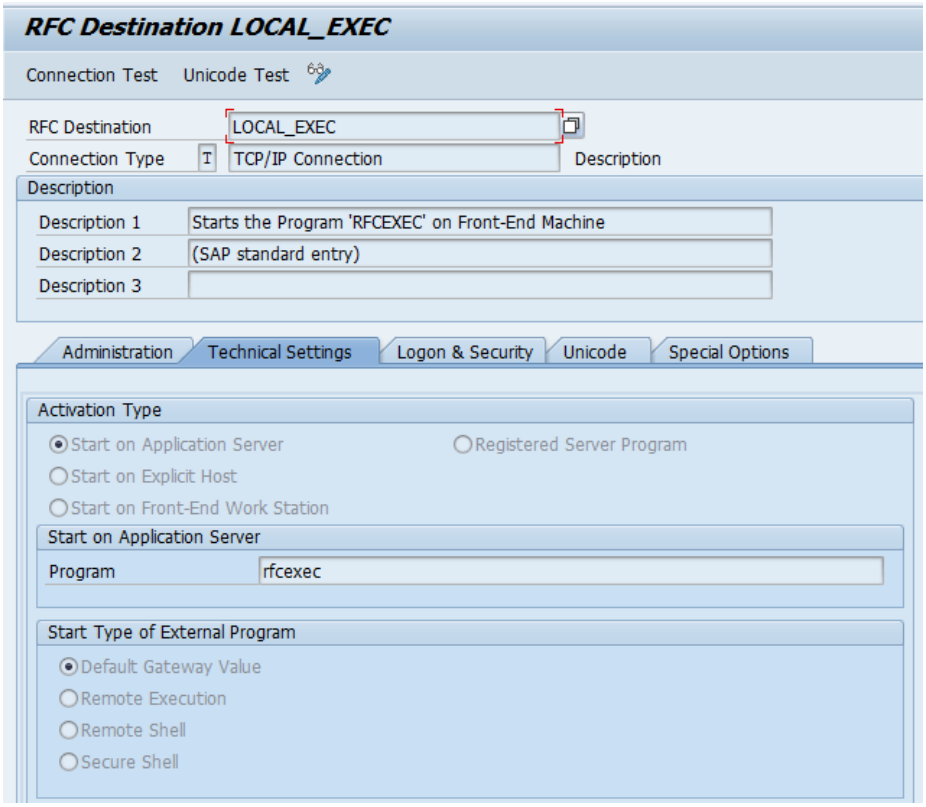
1. Enter transaction code (t-code) BD54.
2. Click New entries to create a Logical System.
3. Enter a name for the Logical System and a description.
   The Logical System names used throughout this example is MDG System S23 CLNT 100 as the source and S23 CLNT 200 as the target.



Define a RFC Connection

Use the following steps to define the RFC connection:

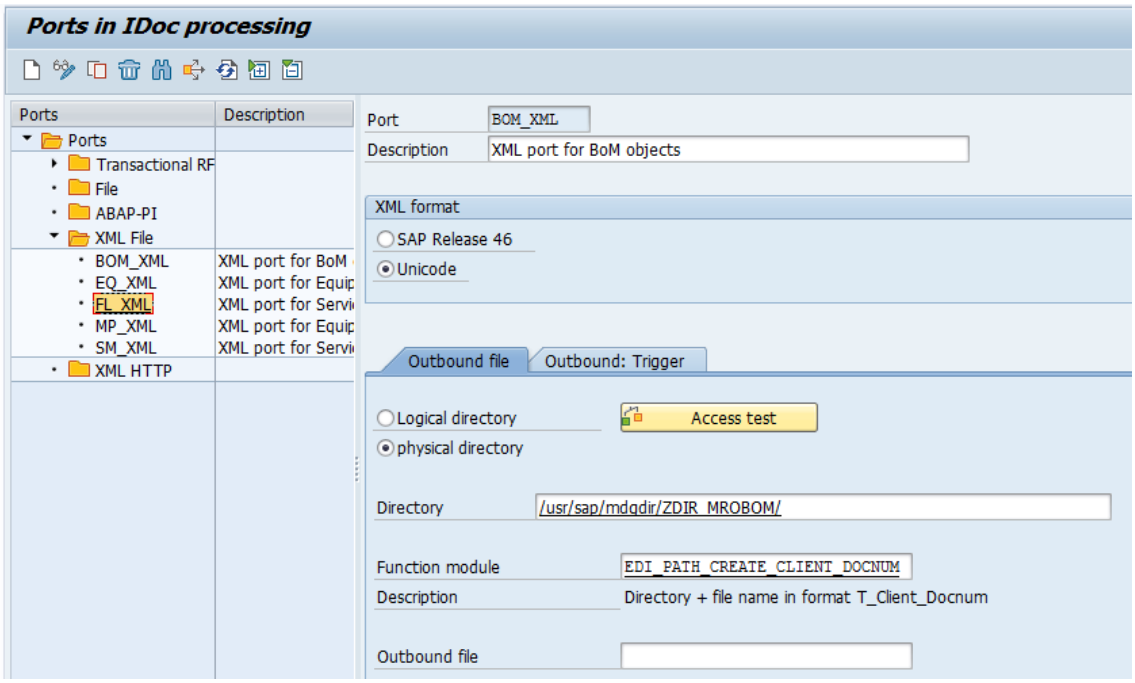
1. Run the t-code SALE. Navigate to tree menu Communication> Create RFC Connections or Run the t-code SM59 to create an RFC Connection.
2. Create an RFC connection using Connection Type T (Start External Program Using TCP/IP) into the same client:



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, BOM_XML.
2. Enter the name of the Directory created using t-code AL11 and enter the Function module as displayed in the following screen.



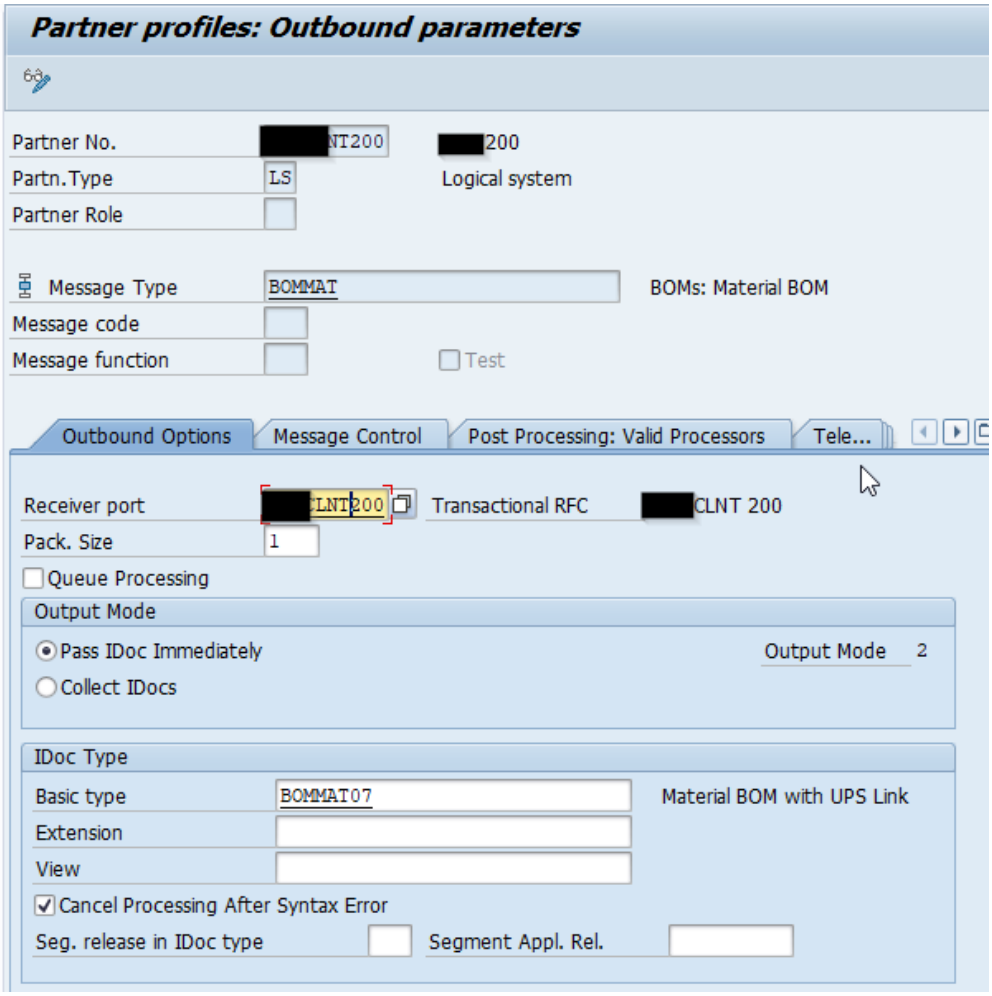
Define Partner Profiles

The following BOM objects are discussed in this section:

- Material BOM
- Functional Location BOM
- Equipment BOM
- WBS BOM

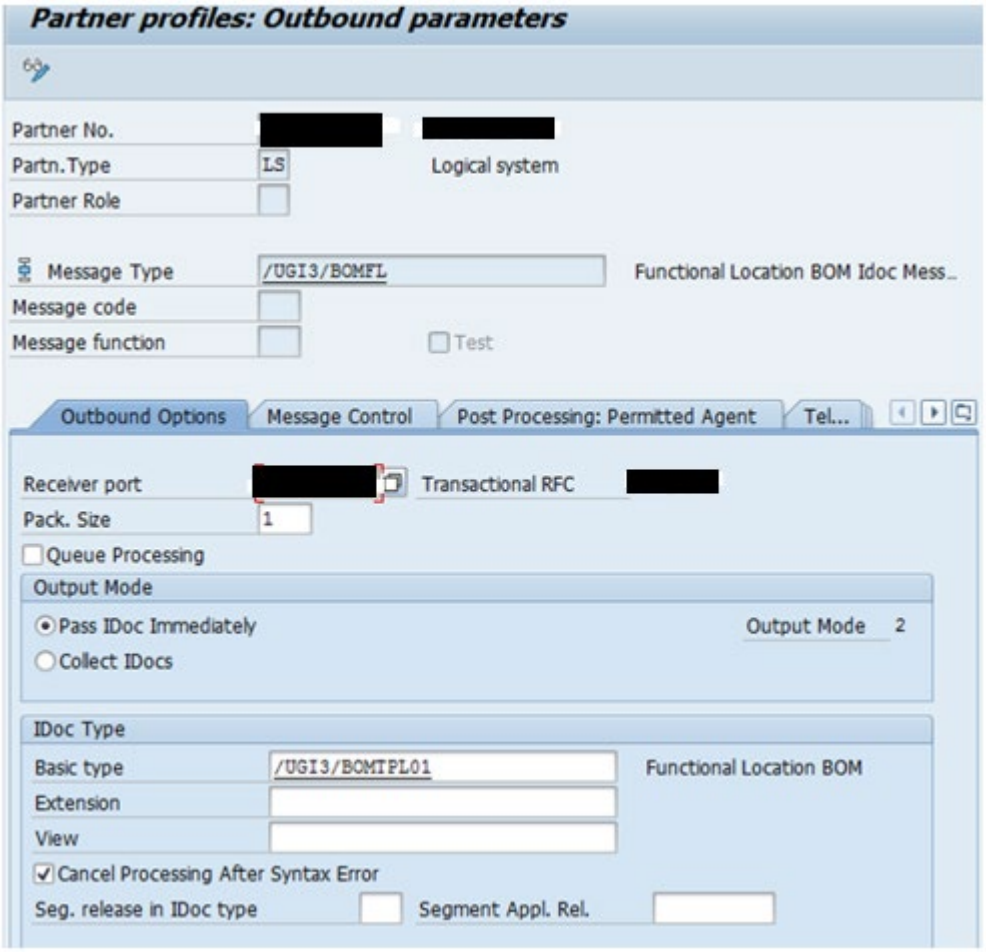
Material BOM

Run the t-code WE20. Locate the MDG Client S23CLNT200 under tree node Partner Profile LS. Maintain the settings for message type BOMMAT under outbound parameters.



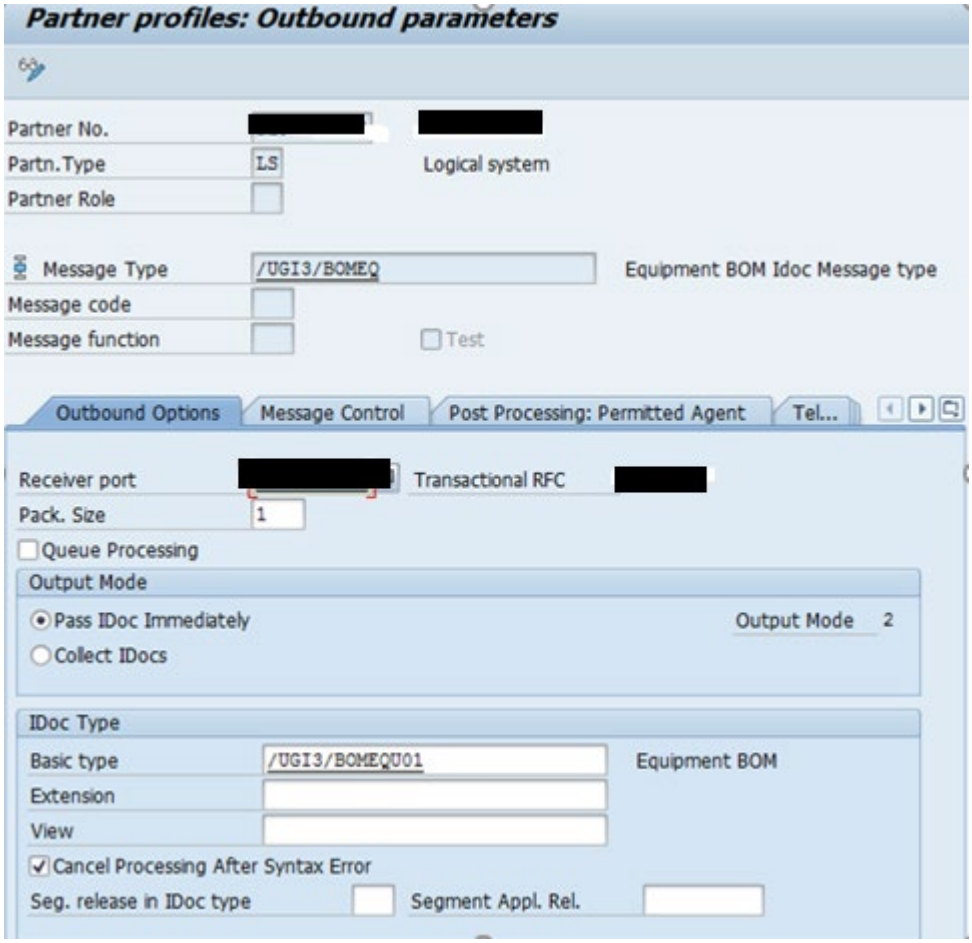
Functional Location BOM

Run the t-code WE20. Locate the MDG Client S23CLNT200 under tree node Partner Profile LS. Maintain the settings for message type /UGI3/BOMFL under outbound parameters.



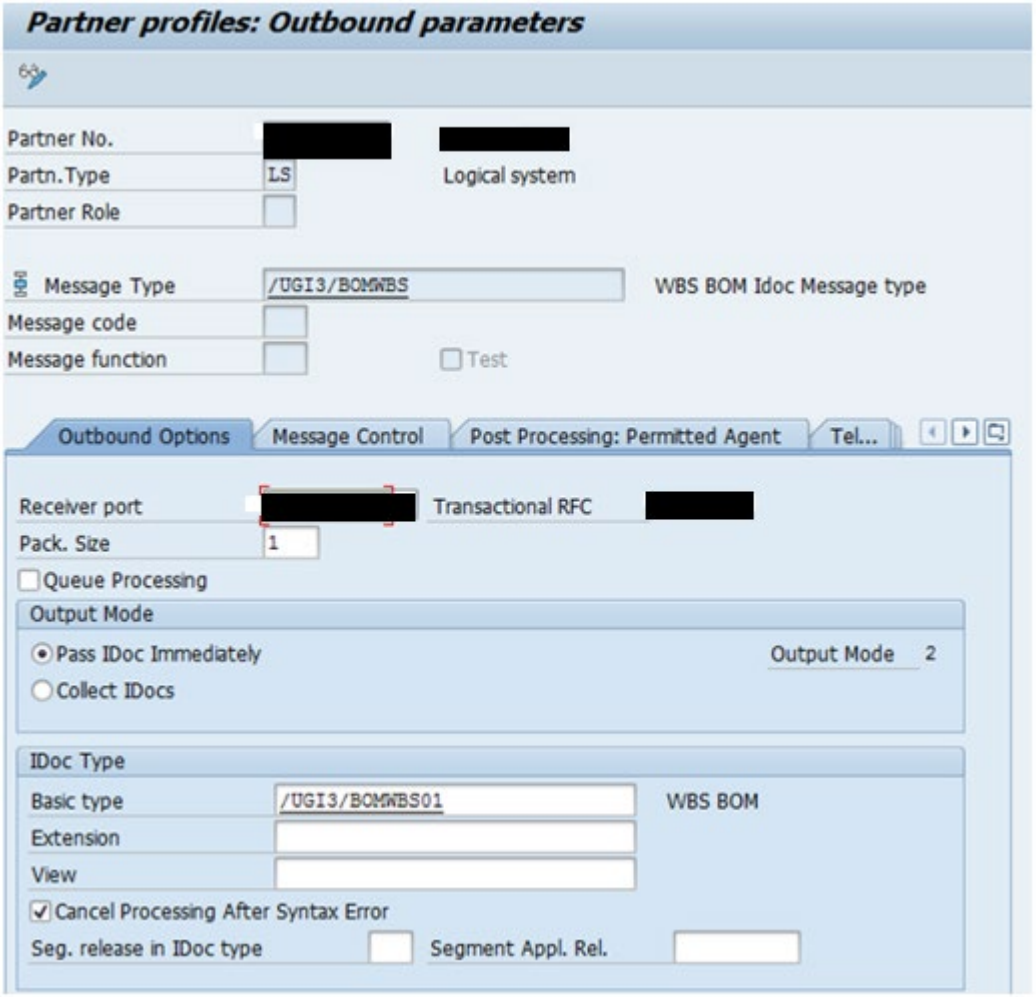
Equipment BOM

Run the t-code WE20. Locate the MDG Client S23CLNT200 under tree node Partner Profile LS. Maintain the settings for message type /UGI3/BOMEQ under outbound parameters.



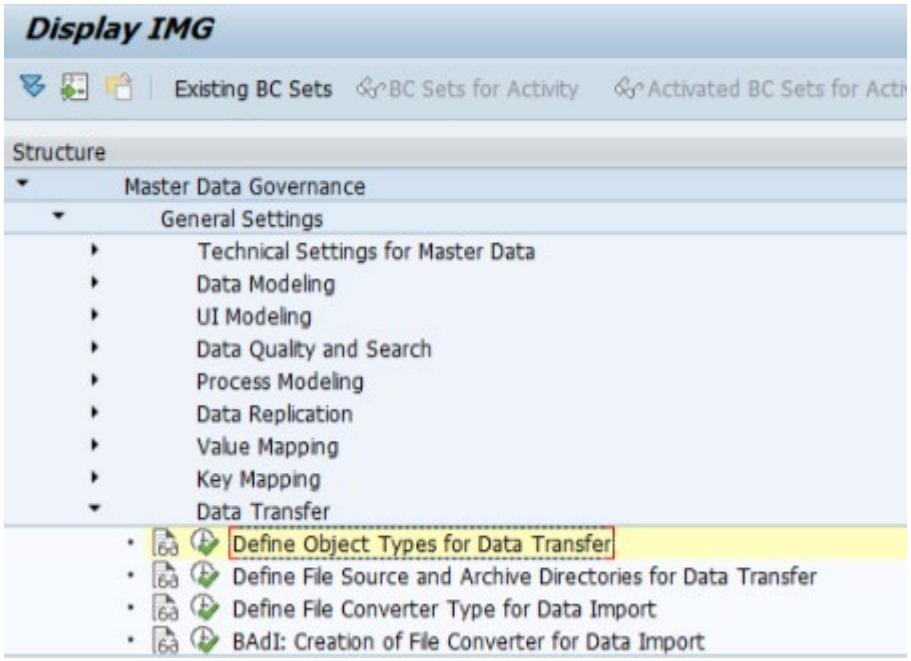
WBS BOM

Run the t-code WE20. Locate the MDG Client S23CLNT200 under tree node Partner Profile LS. Maintain the settings for message type /UGI3/BOMWBS under outbound parameters.



Define Object Types

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

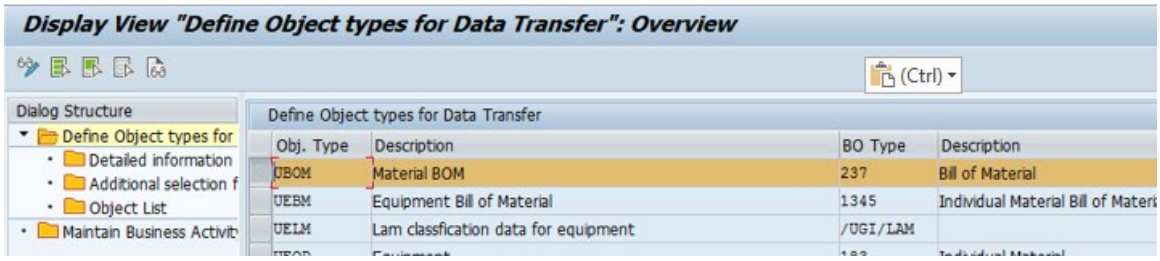


Define Object Types for BOM Objects

The following BOM objects are discussed in this section:

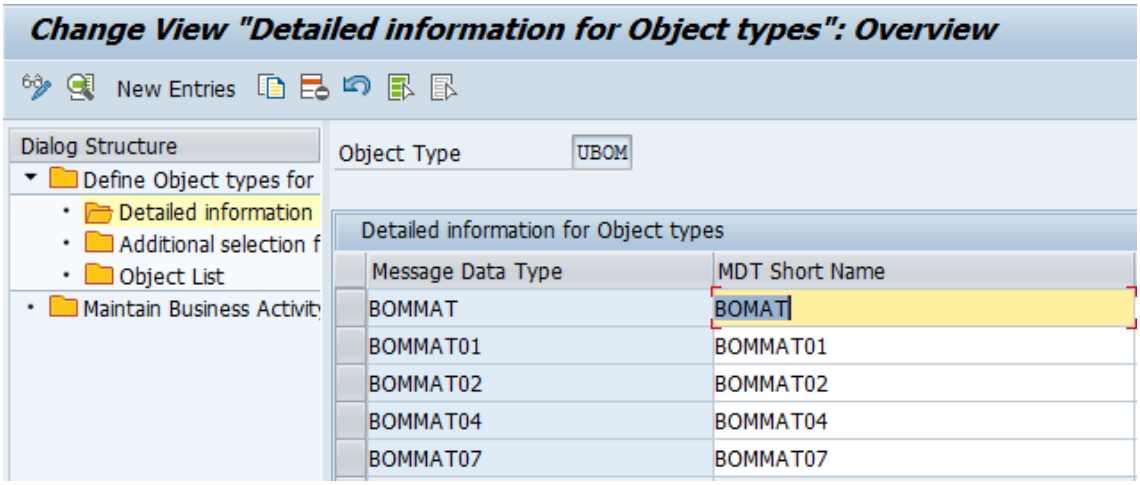
- Material BOM
- Functional Location BOM
- Equipment BOM
- WBS BOM

Material BOM

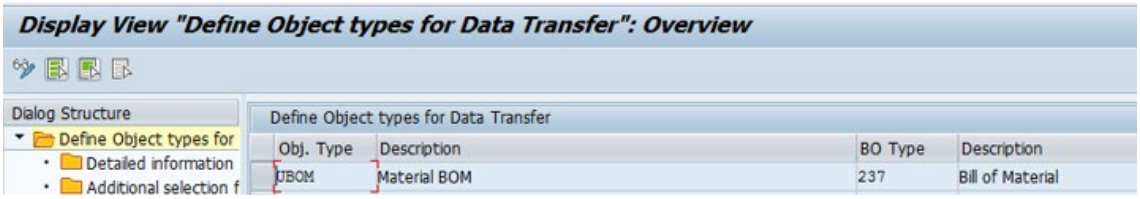


Use the following steps to set the Data Import Framework.

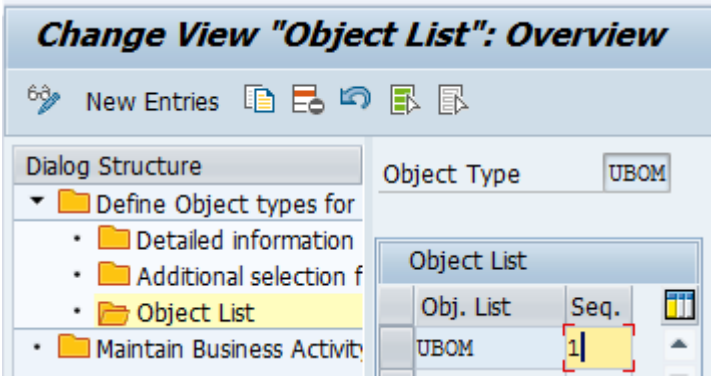
1. Click on sub-node “Detailed information for Object Types”.
2. Enter the message types to be recognized in the file while importing the data.



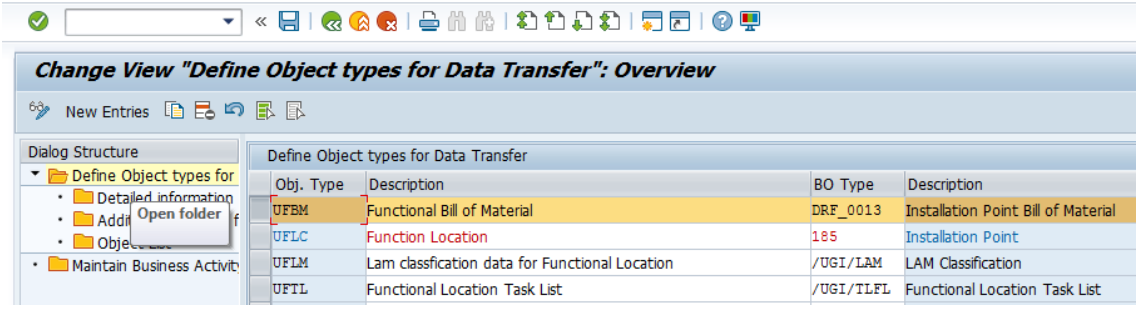
3. Click on the sub-node “Maintain Business Activity”. This refers to the CR type to be created while importing the data to staging area.



4. Maintain Object List for Data Import.



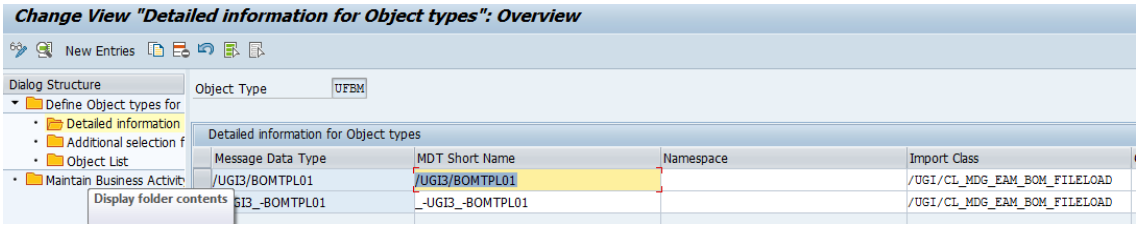
Functional Location BOM



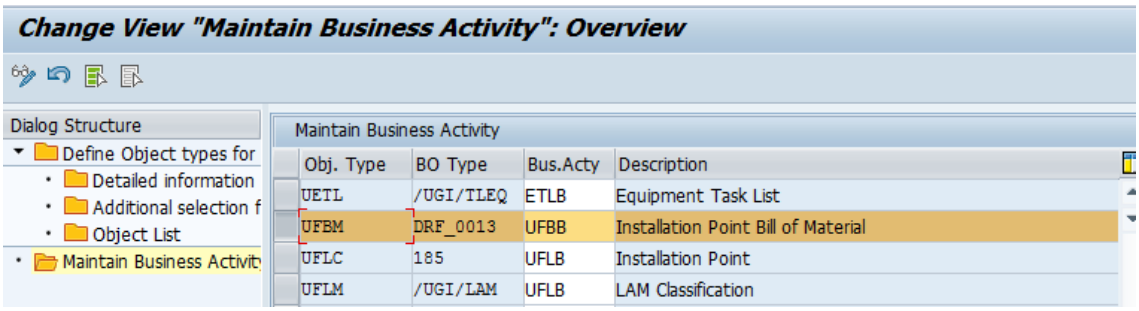
Use the following steps to set the Data Import Framework.

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

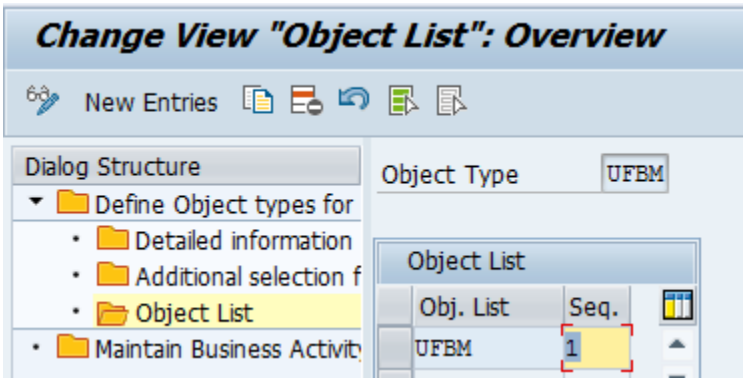
2. Enter the message types to be recognized in the file while importing the data.



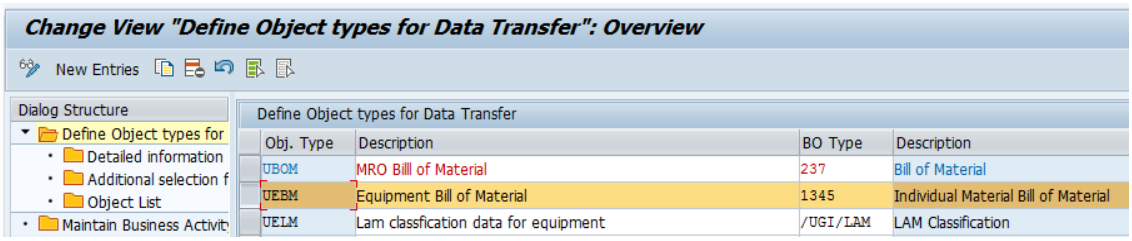
3. Click on the sub-node “Maintain Business Activity”. This refers to the CR type to be created while importing the data to staging area.



4. Maintain Object List for Data Import.

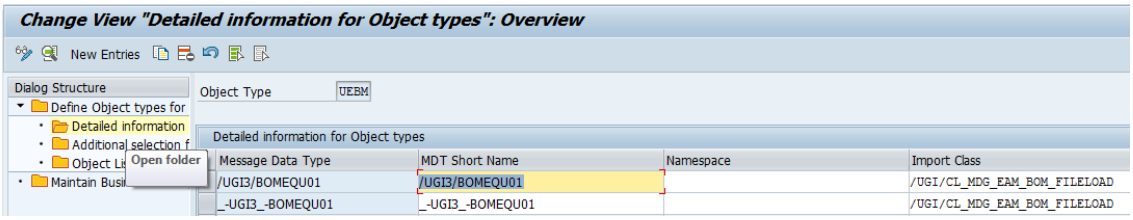


Equipment BOM

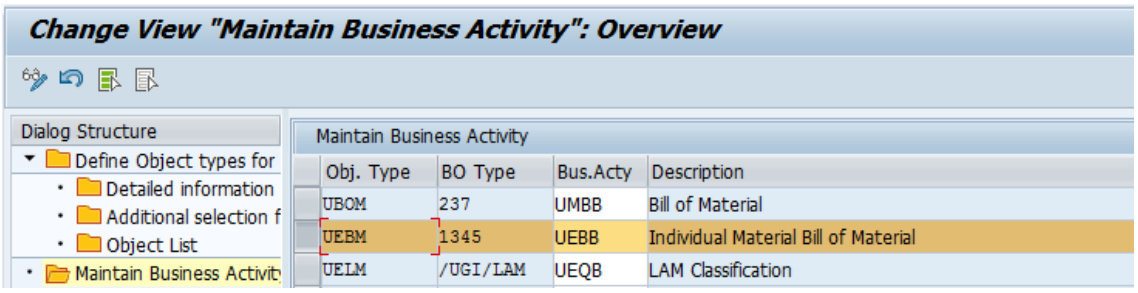


Use the following steps to set the Data Import Framework.

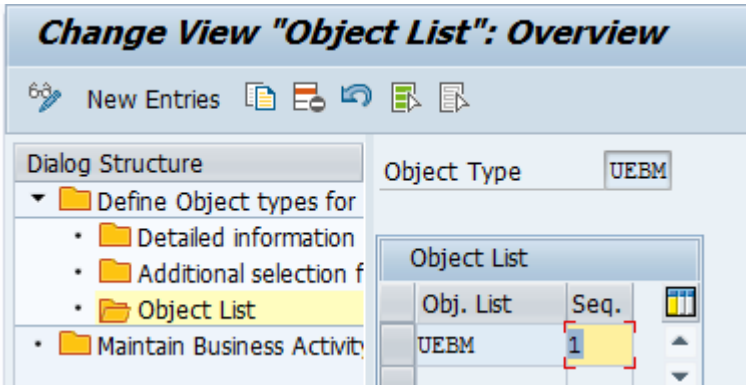
1. Click on sub-node “Detailed information for Object Types”
2. Enter the message types to be recognized in the file while importing the data.



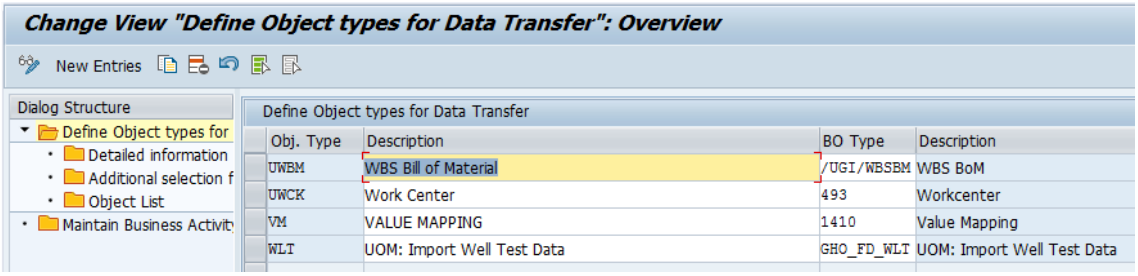
3. Click on the sub-node “Maintain Business Activity”. This refers to the CR type to be created while importing the data to staging area.



4. Maintain Object List for Data Import.

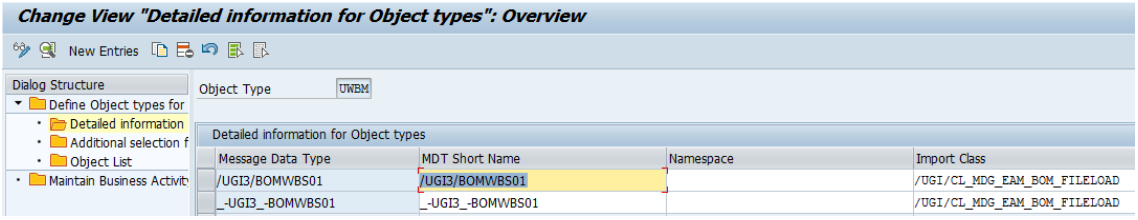


WBS BOM

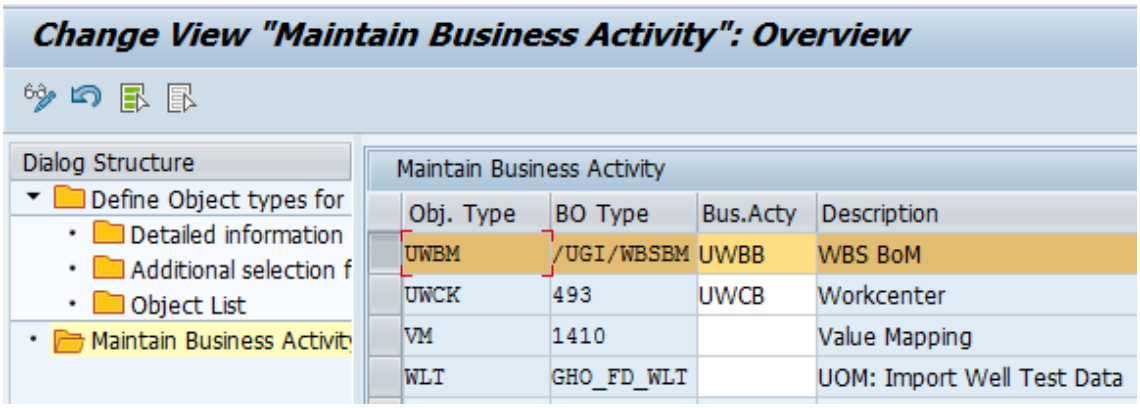


Use the following steps to set the Data Import Framework.

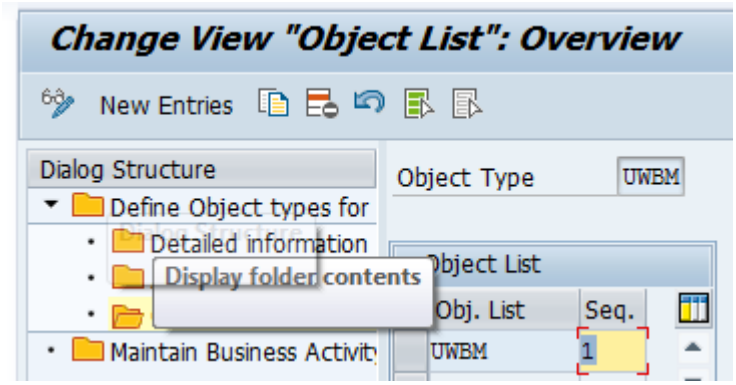
1. Click on sub-node “Detailed information for Object Types”
2. Enter the message types to be recognized in the file while importing the data.



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.

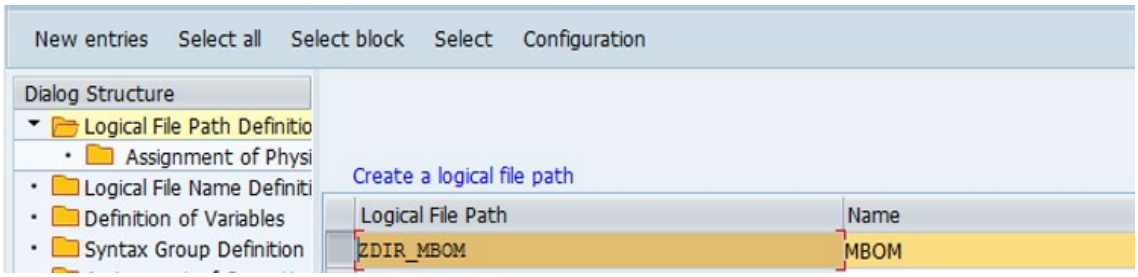
Note

Contact BASIS for directory paths creation.

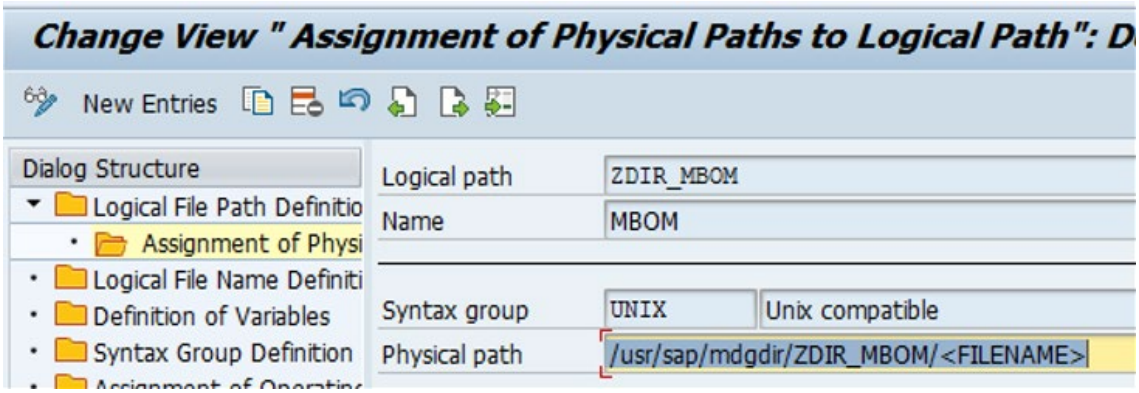
4. To assign directories as sources or archives, the physical directory paths must be created in the file system initially.
5. Use the t-code SFILE to map them to logical names.
   Run the t-code AL11 to verify the directory path creation:

ZDIR_MBOM	/usr/sap/mdgdir/ZDIR_MBOM

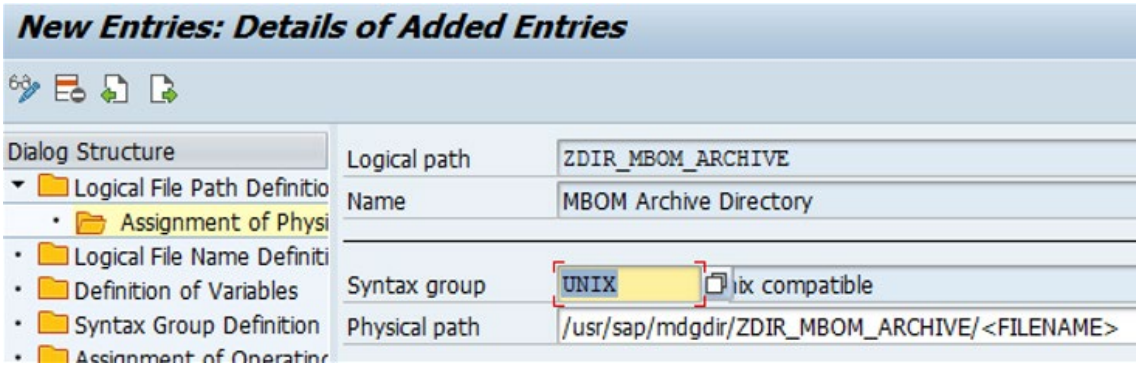
6. Run the t-code FILE to map directory path to logical names:



7. Assign physical path for ZDIR_MBOM.

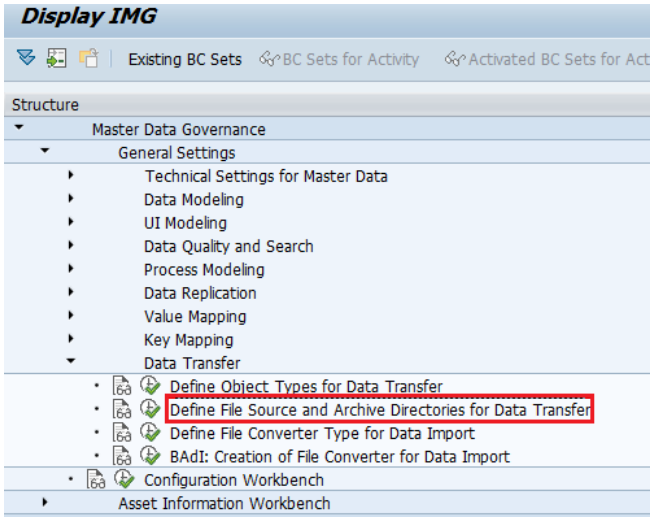


8. Assign physical path for ZDIR_ MBOM_ARCHIVE.



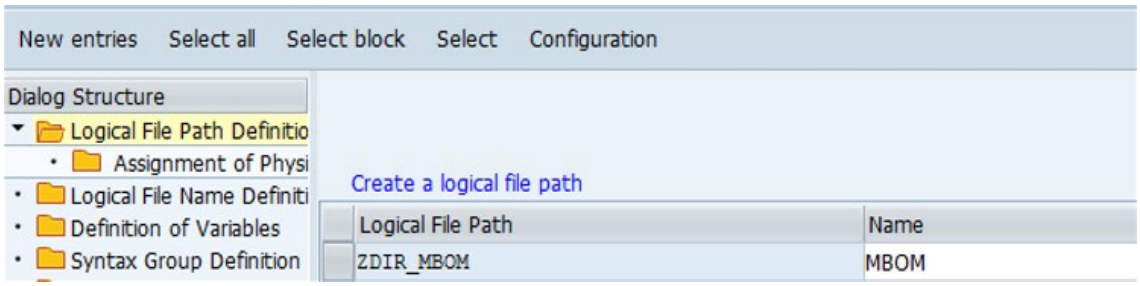
Defining Source and Logical Directories

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

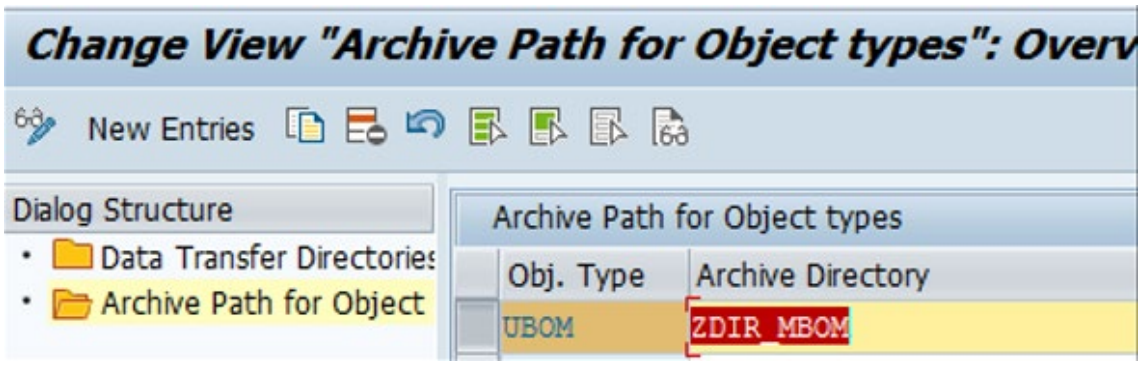


Use the following steps to define source and logical directories:

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

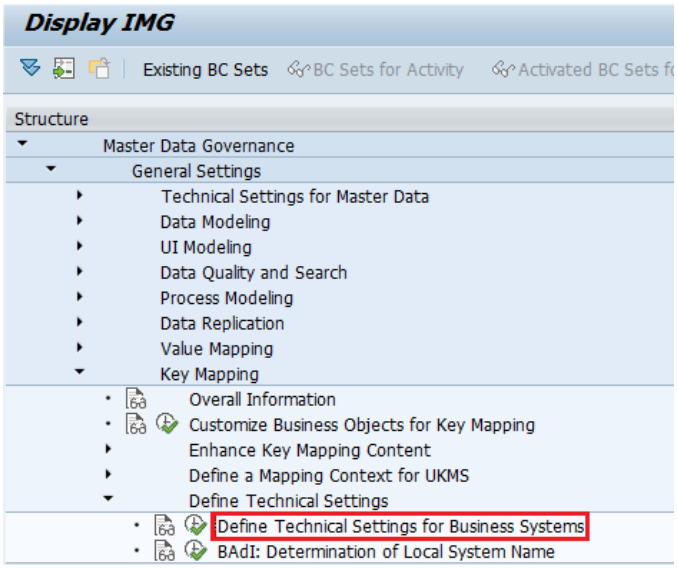


2. Click on Archive Path Object Types to maintain the archiving path of files used.



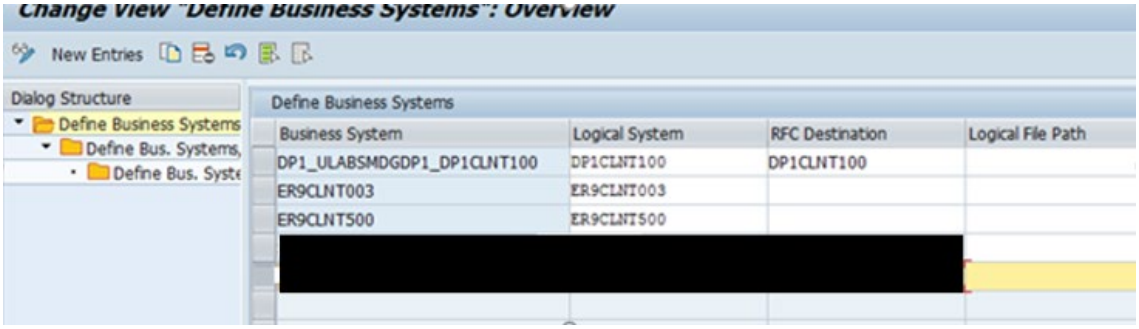
Define the Technical Settings for Business Systems

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.



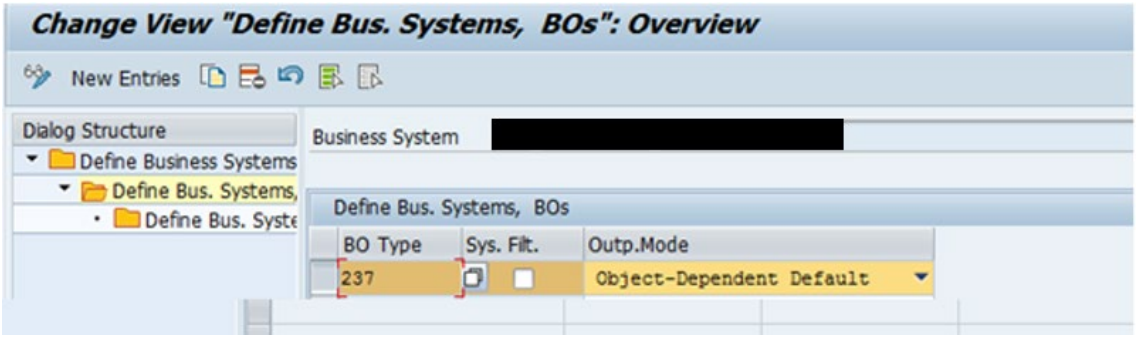
2. Add the BO Type for the Business System.

Define Technical Settings for Business Systems for BOM Objects

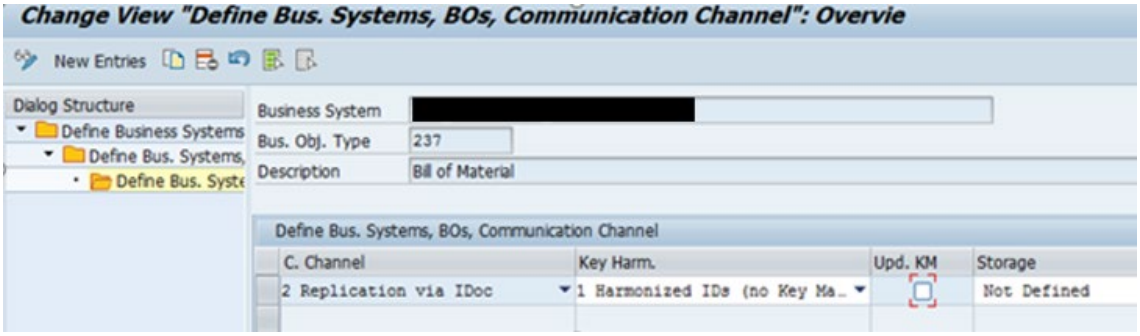
The following BOM objects are discussed in this section:

- Material BOM
- Functional Location BOM
- Equipment BOM
- WBS BOM

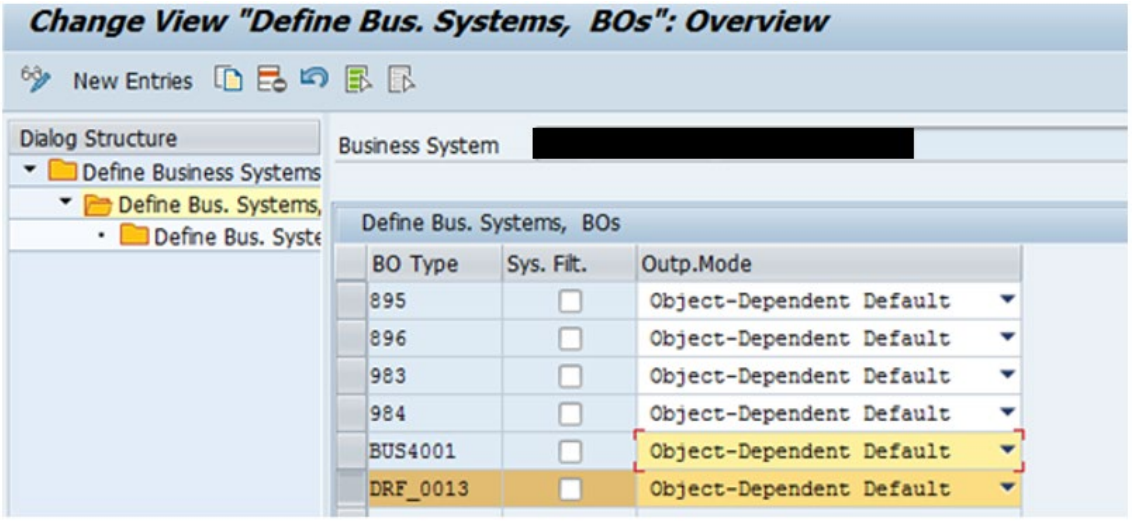
Material BOM



- BO Types 237 For Harmonized scenarios, update the communication channel settings as displayed in the following screen.

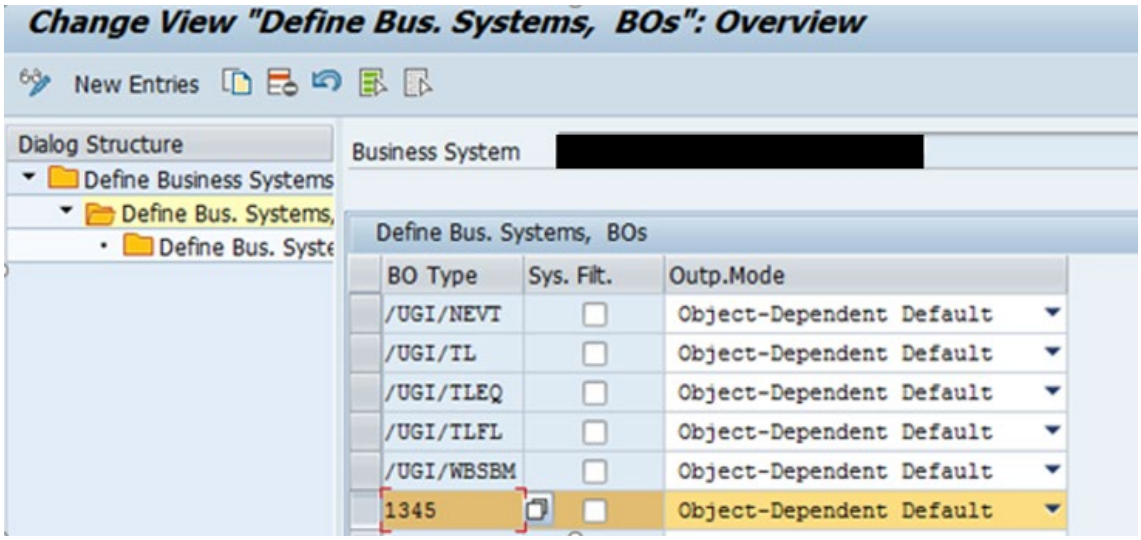


Functional Location BOM



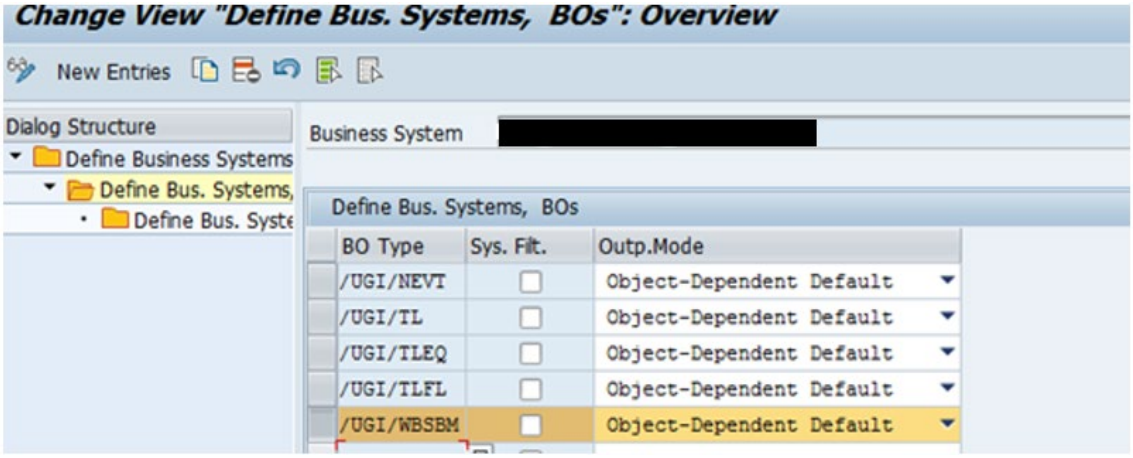
- BO Types DRF_0013 For Harmonized scenarios, update the communication channel settings as displayed in the following screen.

Equipment BOM



- BO Types 1345 For Harmonized scenarios, update the communication channel settings as displayed in the following screen.

WBS BOM



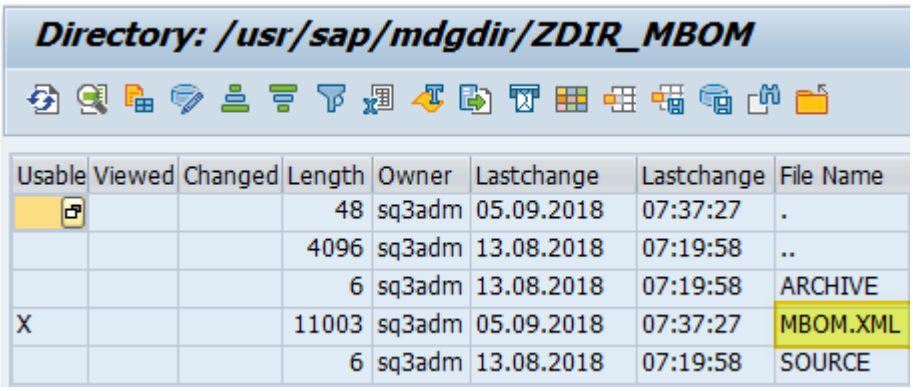
- BO Types /UGI/WBSBM For Harmonized scenarios, update the communication channel settings as displayed in the following screen.

Test Scenario for DIF for Material BOM

Use the following steps for Test Scenario for DIF:

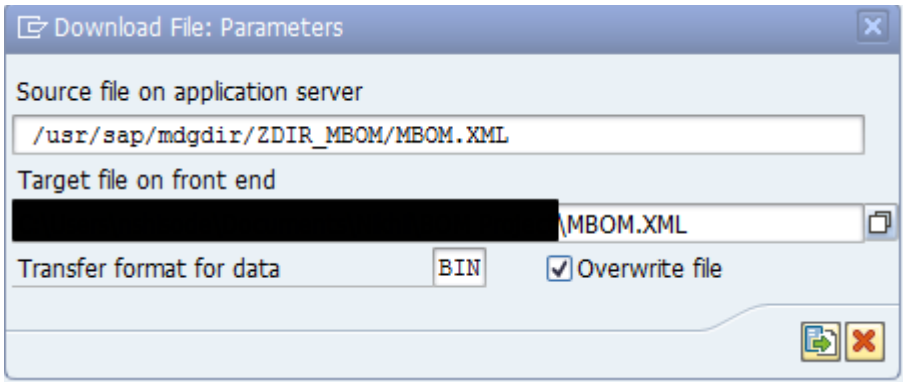
1. Download the XML file in your local machine.
2. Go to t-code AL11 and get the directory name for file.

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



Usable	Viewed	Changed	Length	Owner	Lastchange	Lastchange	File Name
			48	sq3adm	05.09.2018	07:37:27	.
			4096	sq3adm	13.08.2018	07:19:58	..
			6	sq3adm	13.08.2018	07:19:58	ARCHIVE
X			11003	sq3adm	05.09.2018	07:37:27	MBOM.XML
			6	sq3adm	13.08.2018	07:19:58	SOURCE

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.

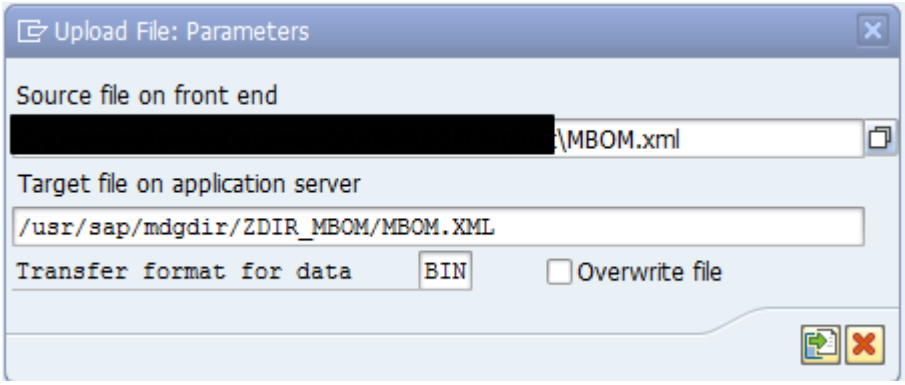
The following steps are required to run the DIF for Material BOM.

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

Use the following steps to test the DIF:

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

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			11003	sq3adm	05.09.2018	07:37:27	MBOM.XML

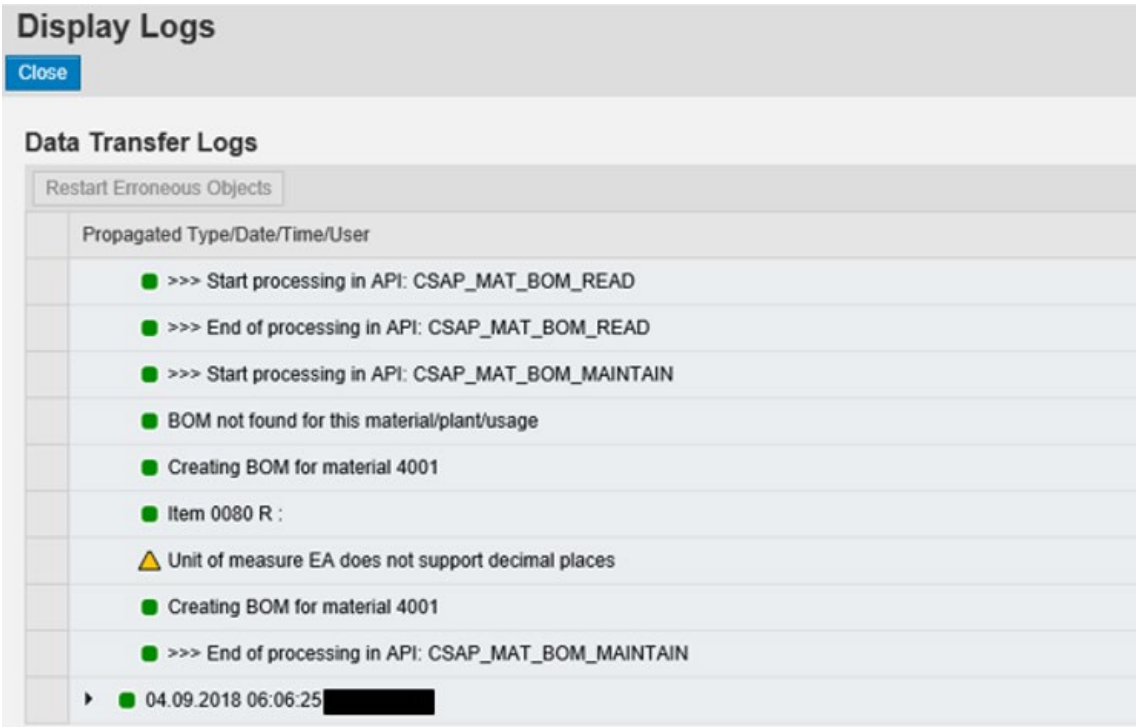
Data Import

Use the following steps to import data:

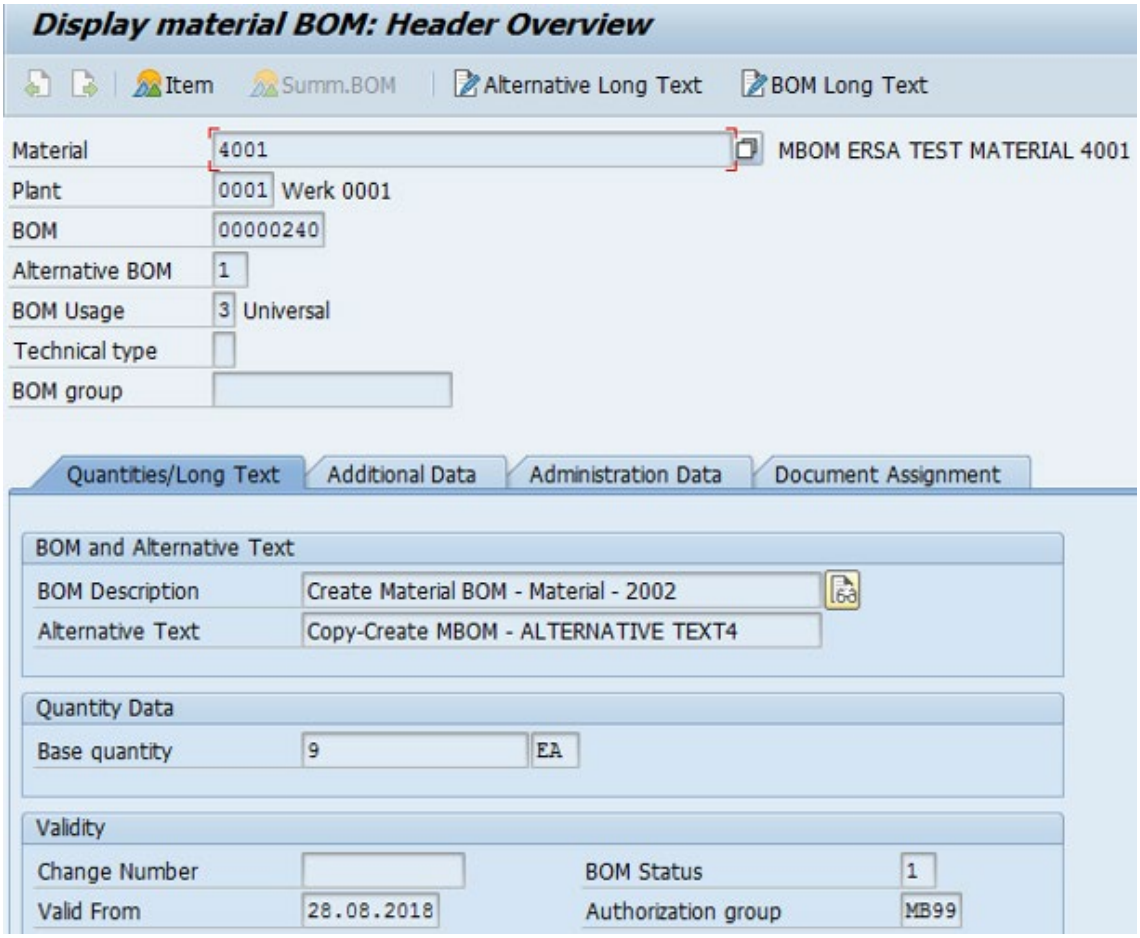
1. Navigate to the Data Exchange tab > Data Load > Import Master Data
2. Scenario 1 - Manual Post Processing.
    a. Enter the following details in the new Data Import screen:
        - Object Type – UBOM
        - Provide mandatory description
        - Choose overwrite check box if you want the object to be overwritten
        - Select the Post Processing as Manual Post Processing
        - Data Sources – Add the Object Type “Bill of Material- UBOM” and source directory ZDIR_MBOM

    b. Click on “Import” button.

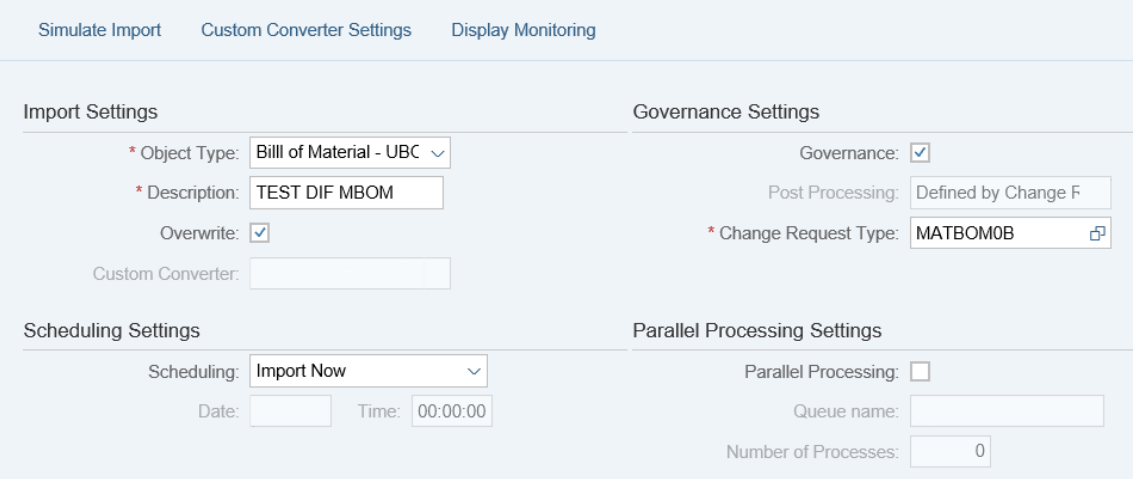
    c. Click on “Display Monitoring” button to check the import log> Click on Run number to see details log.



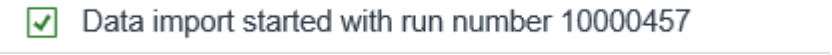
d. Enter the t-code CS03 to verify if Material BOM is created.



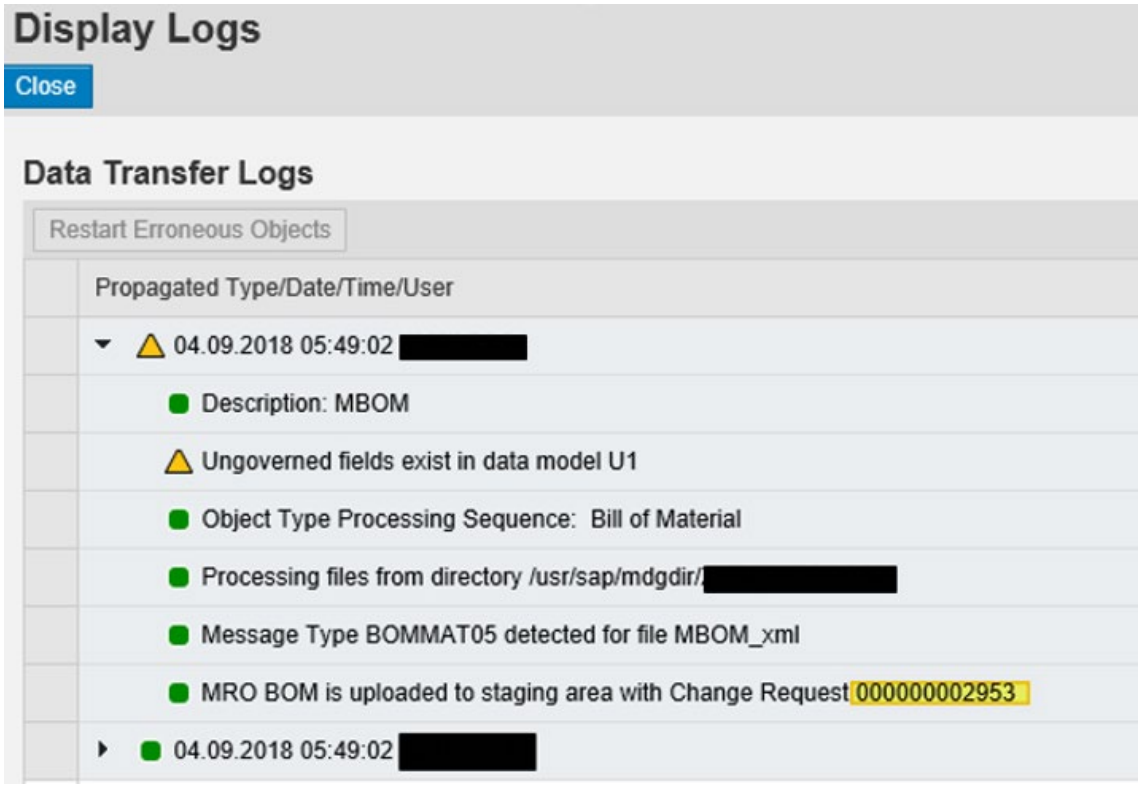
3. Scenario 2- Defined by Change Request with Governance.
    a. Update the following details in the new Data Import screen:
        - Object type – UBOM
        - Provide mandatory description
        - Choose overwrite check box if you want the object to be overwritten
        - Select the Governance check box
        - Select the Post Processing – Defined by Change Request
        - Choose the change request type “MATBOM0B”
        - Data Sources – Add the Object Type “Bill of Material-UBOM” List and source directory ZDIR_MBOM

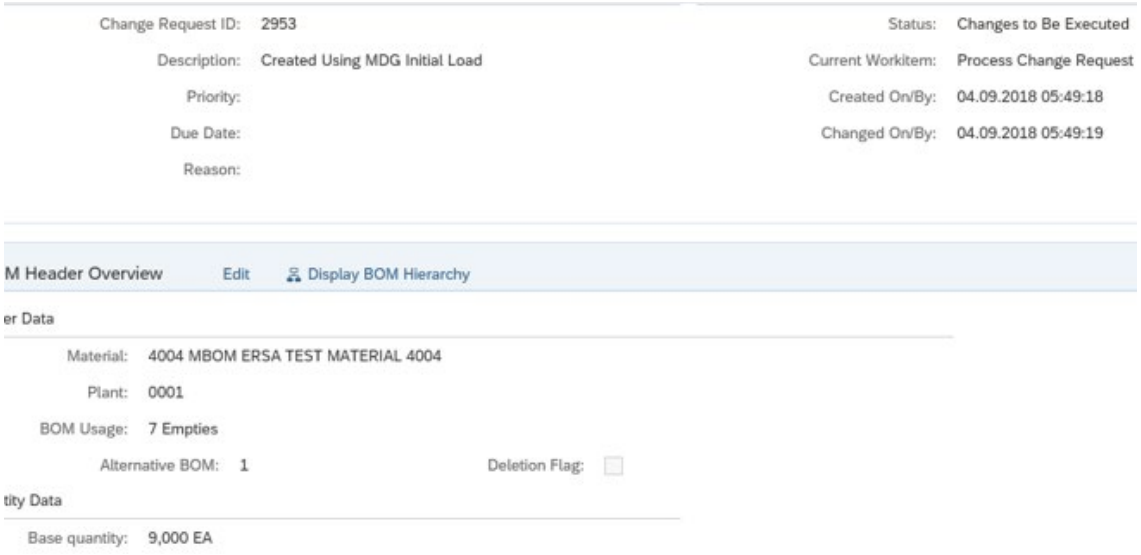


    b. Click on “Import” button.

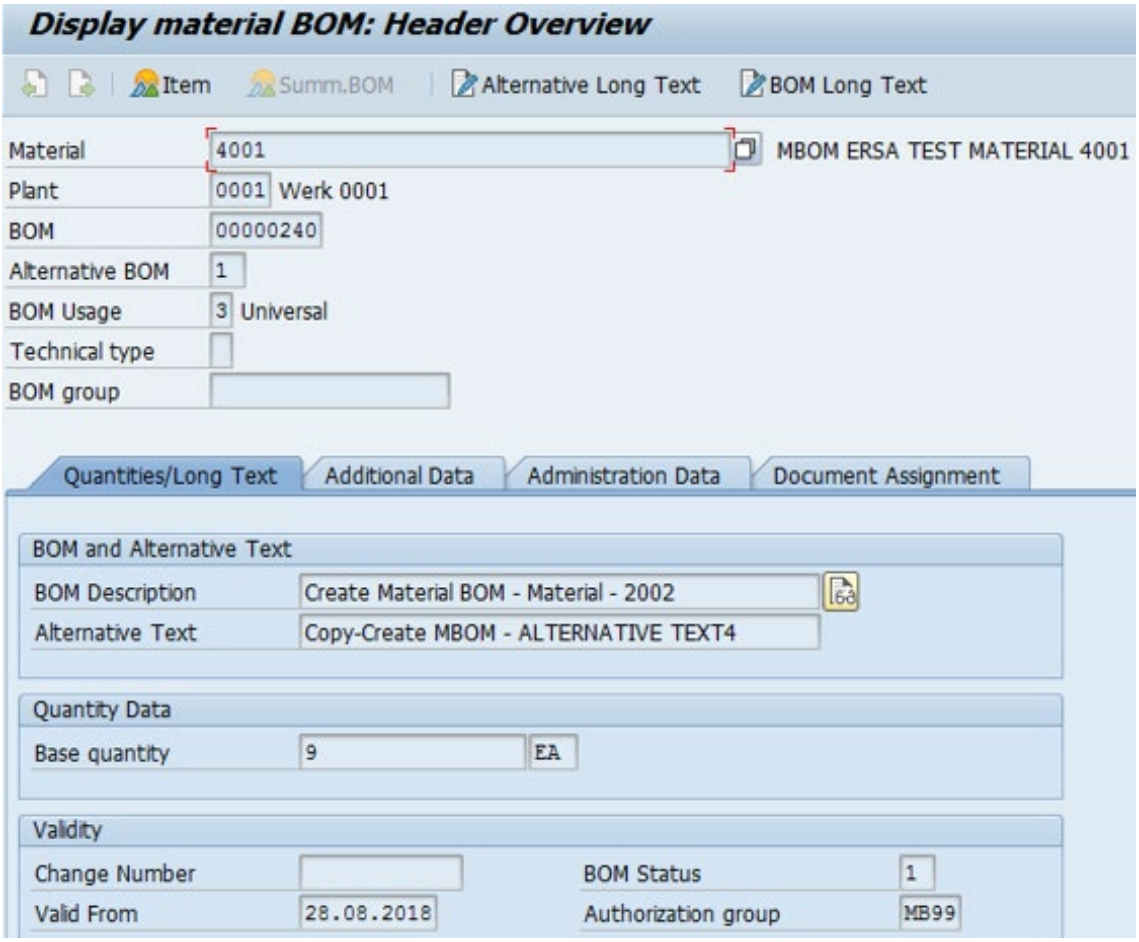


    c. Click on “Display Monitoring” button to check the import log > Click on Run number to see details log.

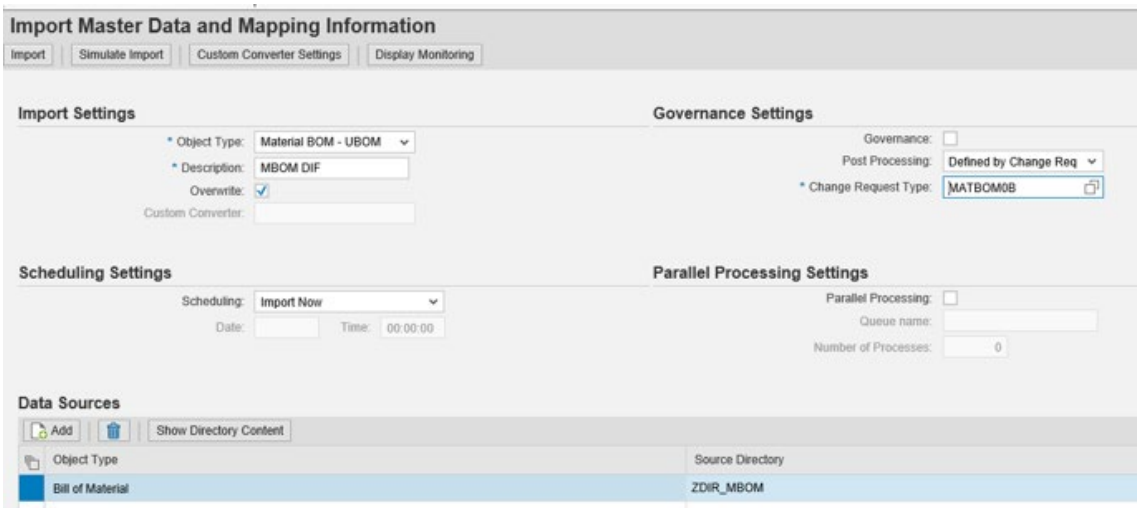




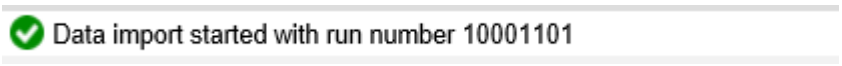
d. Check in the t-code CS03 if the Material BOM is created.



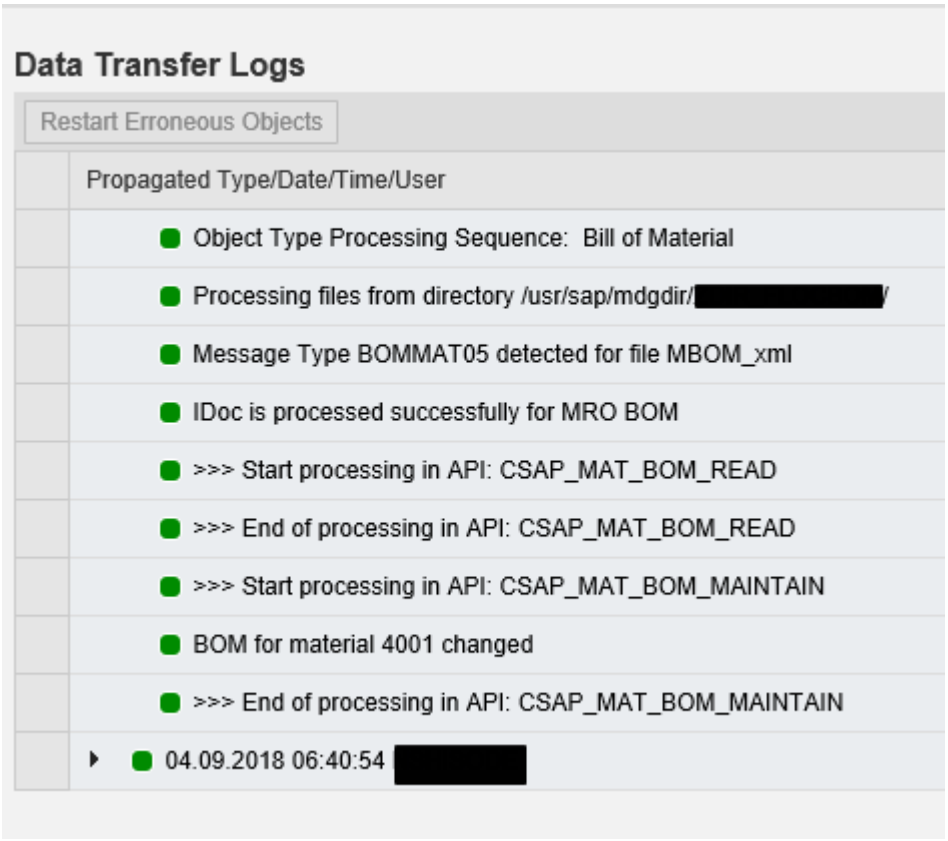
4. Scenario 3- Defined by Change Request without Governance.
    a. Update the following details in the new window:
        - Object Type – UBOM
        - Enter the Description
        - Select overwrite check box if you want the object to be overwritten
        - Select the Post Processing – Defined by Change Request
        - Select the Change Request type as “MATBOM0B”
        - Data Sources – Add the Object Type “Bill of Material - UBOM” List and source directory ZDIR_MBOM



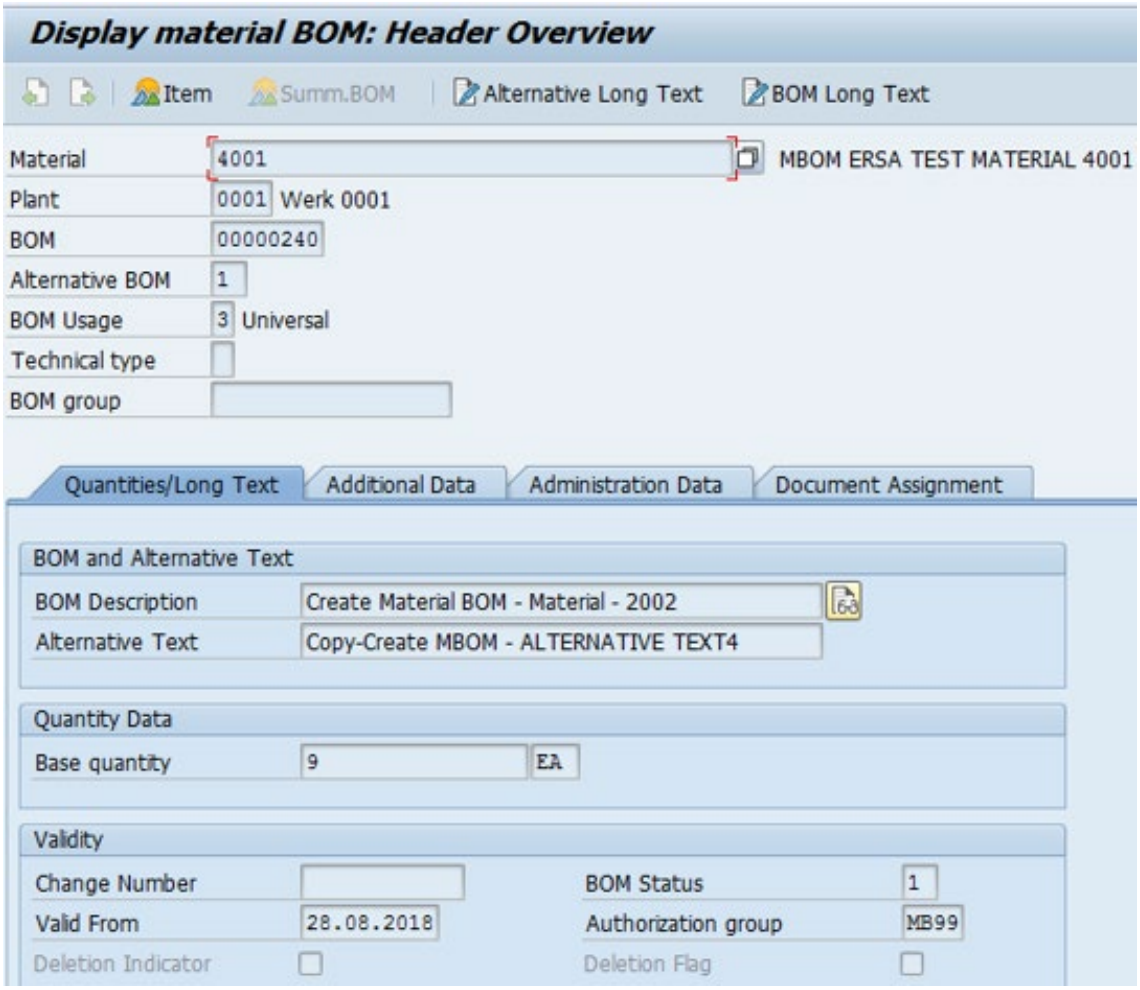
b. Click on “Import” button.



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



d. Check in t-code CS03.



Note

Use similar steps as in Test Scenario for DIF for Material BOM for Functional Location BOM. Equipment BOM and WBS BOM.

Additional Changes as part of EAM 1909

Run the t-code WE20. Maintain the settings for message type /UGI3/BOMMAT under outbound parameters.

Configure new Message type /UGI3/BOMMAT instead of BOMMAT for Material BOM