

# How-To Guide: Mass Import Purchase Info Record for RFM Solutions for MDG by Prometheus Group

## Applies to

Prometheus Group Solutions for MDG RFM

## Summary

MDG for RFM include standard implementations of the Mass Import that reads 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 Master Data and Mapping Information screen. The standard implementations support Key Mapping and Value Mapping.

This guide describes the necessary configuration steps for implementing Mass Import. This guide explains the Mass Import for Purchase Info Record.

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.

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**Created On:** November 17, 2020

**Version:** 1.0

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## Introduction

This reference guide helps you understand the Mass Import of Article Master Vendor Characteristics in Prometheus Group Retail and Fashion Management (RFM) S/4HANA on MDG. This guide also provides the background information about the Data Import Framework (DIF) and describes process of using DIF to upload Article data from an xml file.

## Target Audience

The target audience for this guide comprises:

- Technology Consultants
- Security Consultants
- System Administrators

## Business Scenario Overview

Prometheus Group Retail and Fashion Management (RFM) extension for Master Data Governance (MDG) Retail Article (MDG-RFM) provides business processes to find, create and change Material Master data, and to mark it for deletion. It supports the governance of Article Master data on a central hub and the distribution of Article 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 Article and Classification data to the Master Data Governance (MDG) system. The data from these files can update existing master data records (Active Area records only), or create new ones using the options available in the Import Master Data service.

## General Background Information for Data Transfer

Data transfer represents a collection of functions and features that you can use to move master data and map information between the systems and the clients. Examples of the systems include existing ERP systems and your Master Data Governance hub system.

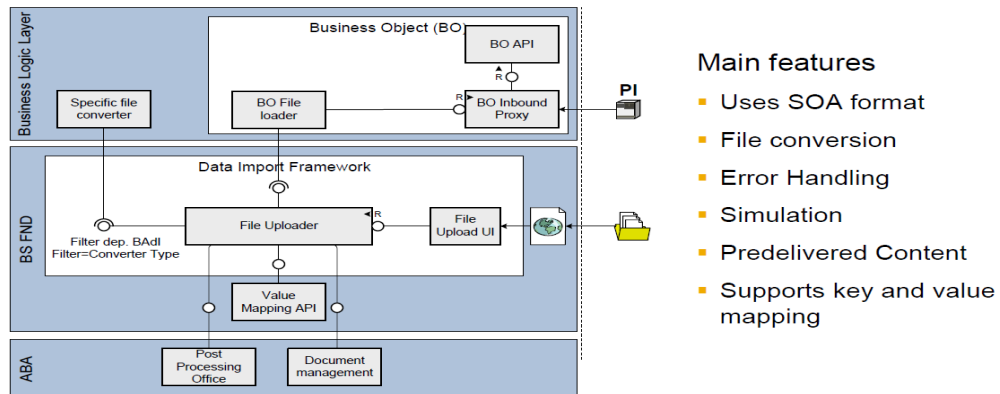
To transfer master data and mapping information, use the following steps:

1. Export the master data and mapping information from the source system to an xml file. This file is saved 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 (DIF).

## MDG – Generic Services

### Data Import Framework

The Data Import Framework is used during data load into the master data hub. Data can be loaded into the active area and into the staging area.



#### Main features

- Uses SOA format
- File conversion
- Error Handling
- Simulation
- Predelivered Content
- Supports key and value mapping

## Using DIF for Purchase Info Record Overview

This section provides the general background information about using the DIF for Article Master data.

### Limitation

It is possible to create material master data in the Staging or Active Area. In standard, updating an existing Article Master is currently only possible in the Active Area. However, this was made possible even in Staging area for Article Master – Purchase Info Records as per the customer requirements.

## Customizing

### Define Object Types

Use the following steps to define Object Types:

1. Go to Master Data Governance > General Settings > Data Transfer > Define Object Types and define the following Object Types.
  - Relationship to Business Object Type/Message Data Type
  - Implementing Classes
  - Additional Selection Fields
  - Sequence of Objects to be processed
  - Business Activity to be used in import

The customizing delivered with the solution enables you to run DIF with the SAP Standard Basic Types for Purchase Info Record (INFREC01). If you want to use a Custom Basic Type, you need to enhance this customizing activity.

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

New Entries

Business Activity: Definition

Bus.Acty	Description (medium text)	D., Description (medium text)	BO Type	Description	Log. Action	Description
AD01	Display Article	AR Article Maintenance	AR_BO_ART	MDG Article	CHANGE	Change
AR01	Article Master Create	AR Article Maintenance	AR_BO_ART	MDG Article	CREATE	Create
AR02	Article Master Change	AR Article Maintenance	AR_BO_ART	MDG Article	CHANGE	Change
AR03	Article Master Display	AR Article Maintenance	AR_BO_ART	MDG Article	DISPLAY	Display
AR0A	Article Master Mass Change	AR Article Maintenance	AR_BO_ART	MDG Article	MASS	Mass Processing

2. In MDGIMG customizing, define new Object Types for Data Transfer.

**Note:** In this case, a new Object Type for Retail Article is provided as an example.

**Display IMG**

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

Structure

- Master Data Governance
  - General Settings
    - General Settings for Supplier
    - 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

It is assumed that BO Type is defined earlier and assigned the same BO Type to the Retail Article Data Model. BO Type is essentially an alias to main entity in the Data Model.

**Change View "Define Object types for Data Transfer": Overview**

New Entries

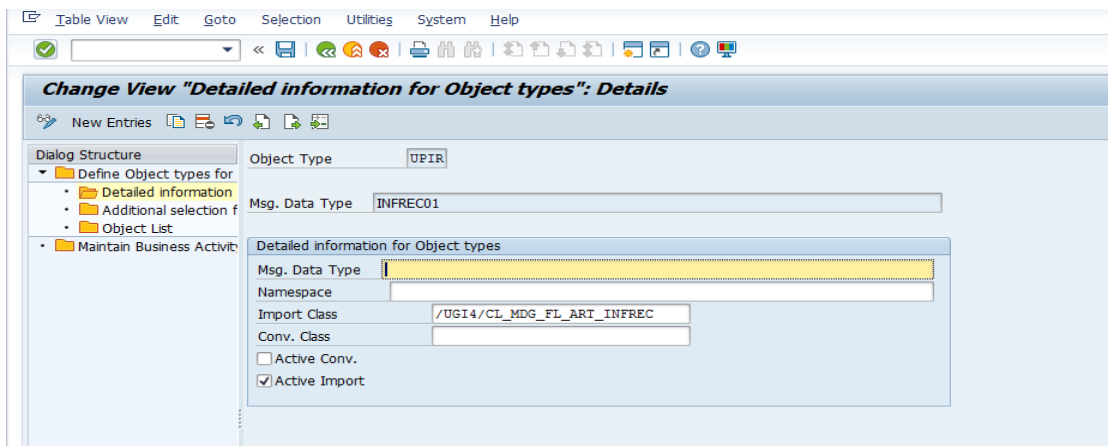
Dialog Structure

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

Obj. Type	Description	BO Type	Description	Par. Ex
UART	RFM Retail Article	DRF_0017	Article (Retail)	
UASR	RFM Article Assortment	/UG14/ASRT	Article Assortment	
UCOM	RFM Article Components	/UG14/BOM4	BOMMAT	
ULYM	RFM Article Layout Modules	/UG14/LAYM	Article Layout Modules	
UPIR	RFM Article Purchase Info record	/UG14/PIR	Purchase Info record	
URCL	RFM Article Master Classification	DRF_0011	Classification (ERP/ALE)	
USUB	RFM Article Substitution	/UG14/SUBS	Article Substitution	
UVIT	RFM Article Vendor Characteristics	/UG14/WYT2	Article Vendor Characteristics	
VM	VALUE MAPPING	1410	Value Mapping	
WLT	UOM: Import Well Test Data	SHO_FD_WLT	UOM: Import Well Test Data	

3. Specify the Msg. Data Type.

In Retail Article, it is expected that the INFREC01 IDoc is imported.



**Change View "Detailed information for Object types": Details**

Object Type: UPIR

Msg. Data Type: INFREC01

Detailed information for Object types

Msg. Data Type: [Text Field]

Namespace: [Text Field]

Import Class: /UG14/CL\_MDG\_FL\_ART\_INFREC

Conv. Class: [Text Field]

☐ Active Conv.

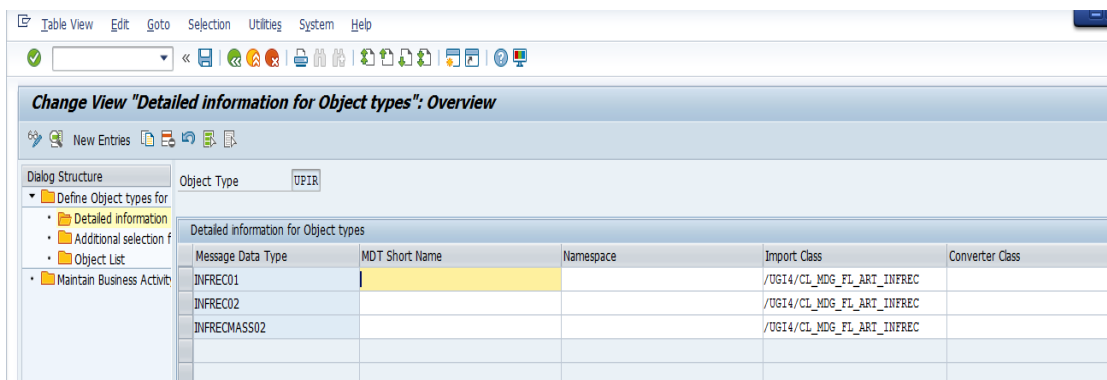
☒ Active Import

You can define different Msg. Data Type and assign a different Import Class.

The import class is also specified here. The import class is the main “program” that does the importing of the data.

4. Set the “Active Import” checkbox.

**Note:** If the “Active Import” checkbox is not checked, the Object Type is not displayed in the drop-down list of the import application. You can use the same import class for the different message data types (for example INFREC01).



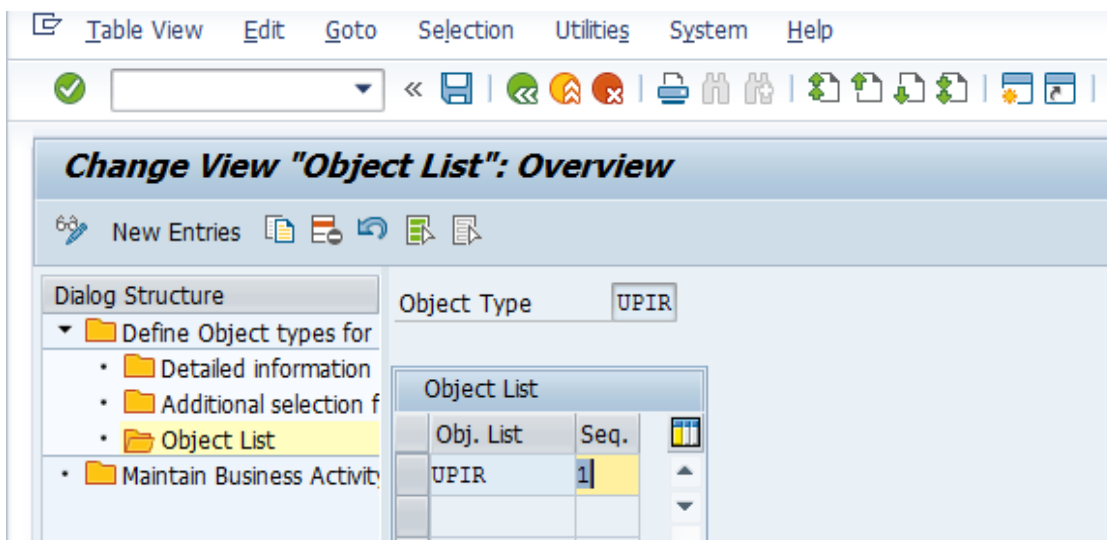
**Change View "Detailed information for Object types": Overview**

Object Type: UPIR

Message Data Type	MDT Short Name	Namespace	Import Class	Converter Class
INFREC01			/UG14/CL_MDG_FL_ART_INFREC	
INFREC02			/UG14/CL_MDG_FL_ART_INFREC	
INFRECMASS02			/UG14/CL_MDG_FL_ART_INFREC	

You can maintain several and different objects to an Object Type.

It is mandatory to have the Object Type in the Object List. The sequence column determines position where the objects are appearing in the popup.

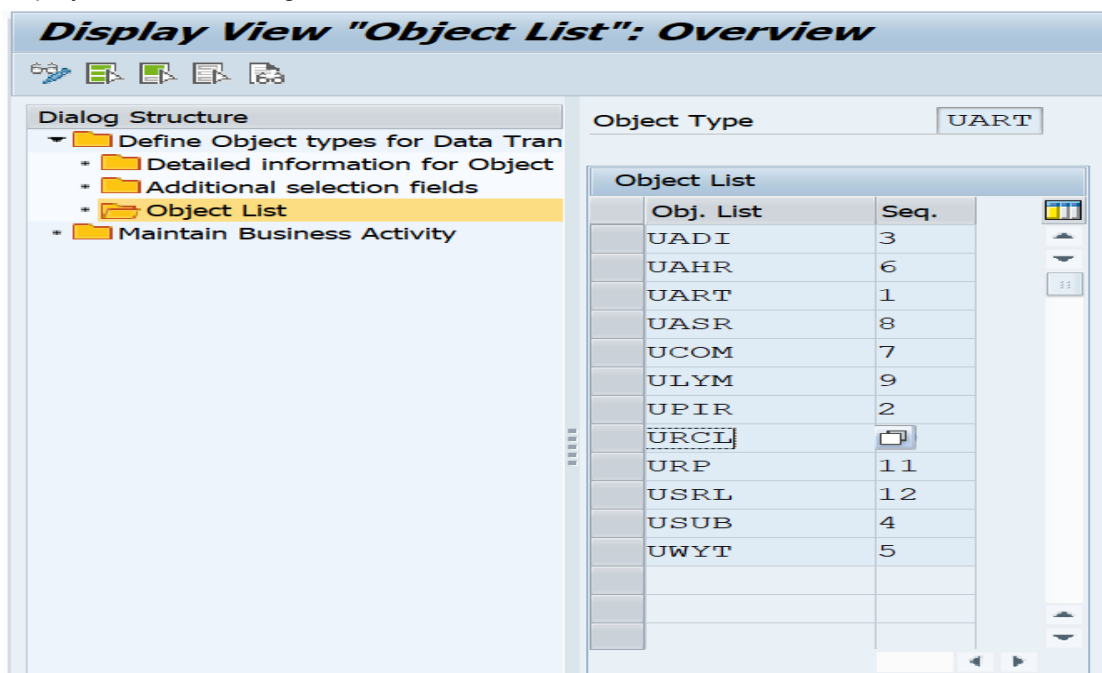


**Change View "Object List": Overview**

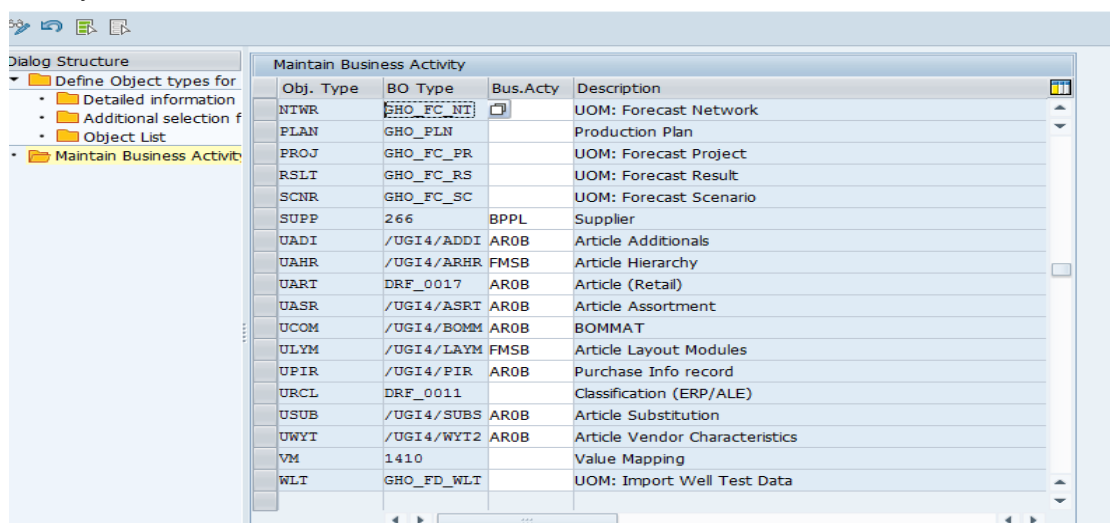
Object Type: UPIR

Obj. List	Seq.
UPIR	1

The sequence column determines the position where the objects appear in the popup as displayed in the following screen.



5. Maintain the Business Activity for the Object Type. You will assign a Mass Change Business Activity.



## File Source and Archive Directories

While setting up the data import, you should define source and archive logical directories in the MDG Data Transfer Customizing Activity Master Data Governance > General Settings > Data Transfer > Define File Source and Archive Directories for Data Transfer.

For more information on logical directories, refer the documents for the Customizing Activity Define File Source and Archive Directories for Data Transfer.

One or more logical source directories can be defined on the application server, where files for the import may be stored. After completion of the import, the system automatically moves the processed files to the defined archive directory for the given object type.

To assign directories as source or archives:

1. The physical directory paths must first be created in the file system.
2. The SAP transaction code FILE must be used to map them to logical names. You can use these logical names in the above-mentioned Customizing activity.

Consider creating several object-specific logical directories.

You can use the SAP transaction code CG3Z to upload a file from the local file system to the application server.

## Setup FILE Transaction in MDG-RFM

Use the following steps to setup FILE transaction in MDG-RFM:

1. Set up two logical paths in Transaction File
  - Path for the import files: ZMDG\_F2Q\_RETAIL\_PIR\_IMPORT
  - Path for the archive folder: ZMDG\_F2Q\_RETAIL\_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 System

Logical path: ZMDG\_F2Q\_RETAIL\_PIR\_IMPORT

Name: PIR

Syntax group: UNIX | Unix compatible

Physical path: /usr/sap/mdgdir/ZDIR\_MDG/pirimport/<FILENAME>

**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 System

Logical path: ZMDG\_F2Q\_RETAIL\_ARCHIVE

Name:

Syntax group: UNIX | Unix compatible

Physical path: /usr/sap/mdgdir/ZDIR\_MDG/ARCHIVE/<FILENAME>

2. Set up the Logical File Name Definition.
  - a. Keep <PARAM\_1> for the Physical file.
  - b. Point the Logical File Name Definition to the Logical Path defined earlier.

**Change View "Logical File Name Definition, Cross-Client": Details**

New entries | Copy as... | Delete | Select

Dialog Structure

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

Log. File: ZMDG\_F2Q\_RETAIL\_PIR\_IMPORT

Name: ZMDG\_F2Q\_RETAIL\_PIR\_IMPORT

Physical file: <PARAM\_1>

Data format: BIN

Applicat.area: BC

Logical path: ZMDG\_F2Q\_RETAIL\_PIR\_IMPORT



## Define File Source and Archive Directories for Data Transfer

The logical file path that was created in t-code FILE is used. It is necessary to have an archive path for importing object types.

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

New entries   Select all   Select   Configuration




Dialog Structure

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

Create a logical file path

Logical File Path	Name
UOM_MR_ARCHIVE	
VB_CP_EBR_ARC_PRINT_FILE_DOWNLOAD	Batch record: Download temporary PDF files for
VERIFICATION_XXX	Illegal Path (for testing)
WEBBROWSER_PATH	Path for the web browser
WM_ROOT	
WORKFLOW_GLOBAL_TEMPORARY_FILES	Temporary files for workflow (global)
X_PATH_TECH_ED_PAR	Test Path (TechEd CD268)
ZMDG_ARTICLE_BOM_IMPORT	Data import source directory for BOM
ZMDG_ARTICLE_HIER_IMPORT	Data import source directory for Art.Hierarchy
ZMDG_F2Q_RETAIL_ADDIMPORT	Additional file import
ZMDG_F2Q_RETAIL_ARCHIVE	
ZMDG_F2Q_RETAIL_IMPORT	Article data import source directory
ZMDG_F2Q_RETAIL_PIR_IMPORT	PIR
ZMDG_F2Q_RETAIL_SUBS_IMPORT	Substitution file import
ZMDG_F2Q_RETAIL_WYT2_IMPORT	Vendor char file import

**Display View "Archive Path for Object types": Overview**

63         

Dialog Structure

- Data Transfer Directories
- Archive Path for Object types

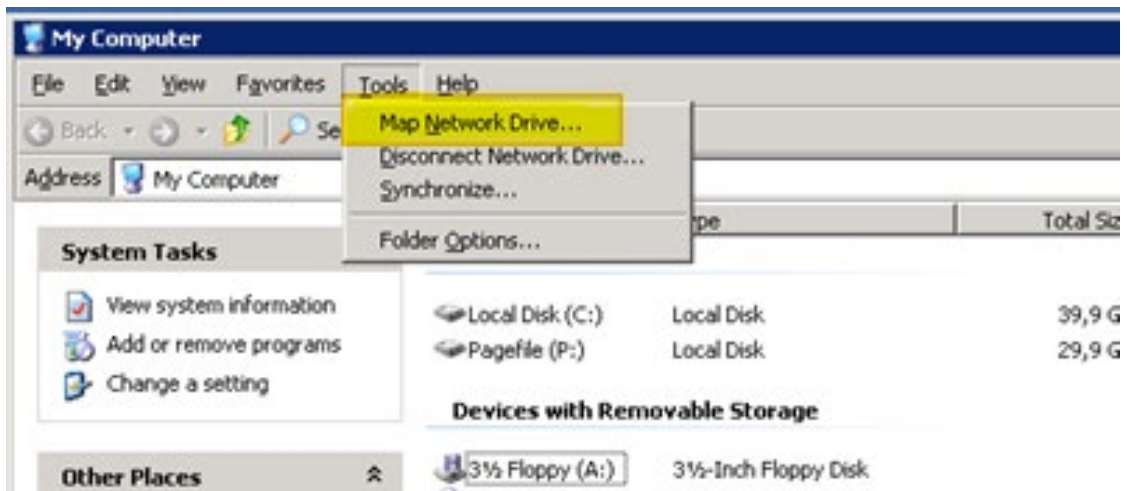
Archive Path for Object types

Obj. Type	Archive Directory
UADI	ZMDG_F2Q_RETAIL_ARCHIVE
UAHR	ZMDG_F2Q_RETAIL_ARCHIVE
UART	ZMDG_F2Q_RETAIL_ARCHIVE
UASR	ZMDG_F2Q_RETAIL_ARCHIVE
ULYM	ZMDG_F2Q_RETAIL_ARCHIVE
UPIR	ZMDG_F2Q_RETAIL_ARCHIVE
URCL	ZMDG_FS3_RETAIL_ARCHIVE
USUB	ZMDG_F2Q_RETAIL_ARCHIVE
UWYT	ZMDG_F2Q_RETAIL_ARCHIVE

## Set up File Import Folder

Use the following steps to setup the File Import folder.

1. From toolbar, click Tools > Map Network Drive

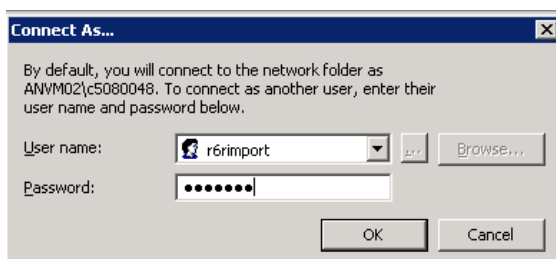


The system displays the Map Network Driver window

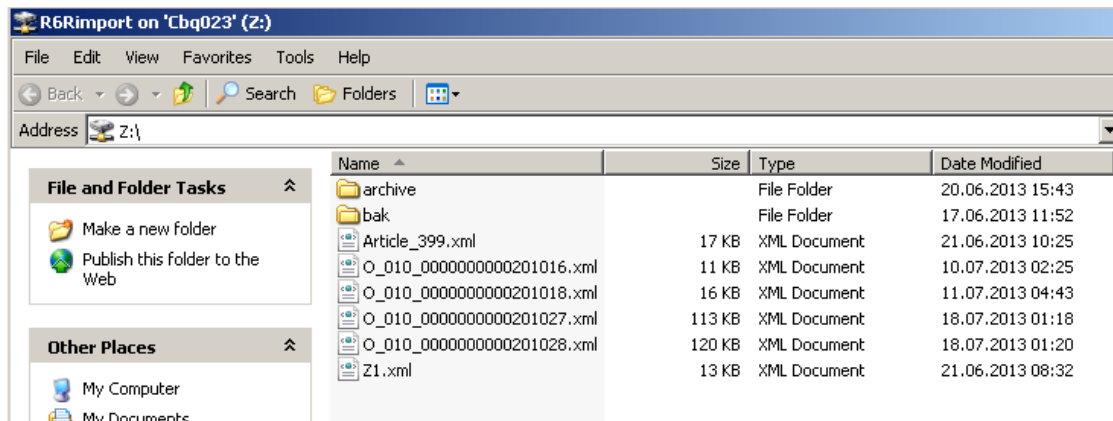
2. Click Folder dropdown list and select the relevant folder.



3. Click Browse. The system displays the Connect As popup.
4. Enter your credential details.



5. Click "OK" button. The import file folder is created. Import xml files are saved in this folder as displayed in the following screen.

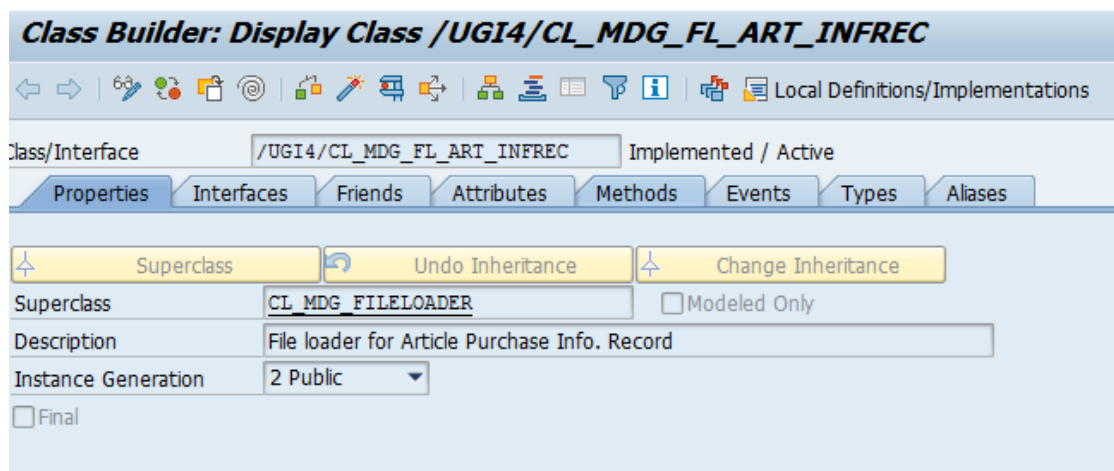


Import xml files are saved into this folder.

## Loader Class

Class: /UGI4/CL\_MDG\_FL\_ART\_INFREC

**Note:** /UGI4/CL\_MDG\_FL\_ART\_INFREC was written with reference from CL\_MDG\_BS\_FL\_MATERIAL.



The importing class needs to inherit from the superclass CL\_MDG\_FILELOADER.

## Methods of Loader Class

- [LOAD Method](#)
- [GET\\_INBOUND\\_STRUCTURE](#)
- [LOG\\_CREATE](#)
- [GET\\_IDoc\\_DATA](#)
- [SET\\_PROXY\\_PERSISTANCE](#)
- [CHECK\\_EXISTENCE\\_IN\\_ACTIVE\\_AREA](#)
- [CHECK\\_EXISTENCE\\_IN\\_STAGING](#)
- [REGISTER](#)

## LOAD Method

This is the main method run by the import class to load the IDoc data into Staging or Active Area. One IDoc can contain multiple Articles.

The important points of loader class are listed as following:

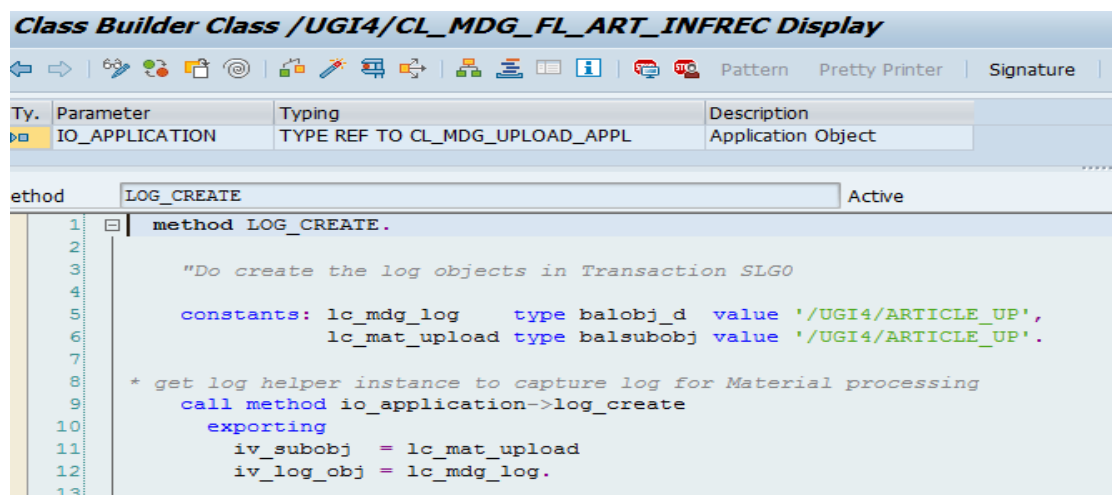
- The DTIMPORT framework setting is read using the method “read\_user\_settings”.
- One of the import parameters in this method iv\_content brings in business data in xml content that is converted into various IDoc segments using method “get\_idoc\_data” in an external format.
- The external format data from the IDoc segments is segregated into Internal formatted IDoc segments using the methods “convert\_idoc\_ctrl\_records” and “convert\_idoc\_data\_records”.
- The IDoc segments are looped for each control segment record nested looped for data segment records on “Docnum” key.
- Vendor Characteristics are imported to Active Area. If Governance process is chosen, and results in error, then only import to Staging Area is possible.
- It is mandatory to fill the Object keys using method call “fill\_objectkeys”.

## GET\_INBOUND\_STRUCTURE

Specific structure “MDG\_IDoc\_DATA” maintained for IDoc is parsed in this method. This method fetches the inbound structure from the parameter ev\_name.

## LOG\_CREATE

The method is implemented to create log objects that can be viewed using t-code SLG0.



## GET\_IDoc\_DATA

This method is used to convert the xml data to IDoc data.

One of the import parameters “iv\_content” in Load method holds business data in xml format which is converted to various IDoc segments using this GET\_IDoc\_DATA method in an external format (RAW).

## SET\_PROXY\_PERSISTANCE

This method writes Proxy Persistence to global data (1: Staging 2: Active, 3: Active with Err) which is used by standard Governance APIs to process the data.

- If user choose Persistence choice = 1 it writes to Staging or if user chooses persistence choice as 3 it writes Active Area with Errors sent to Staging

- Data import for vendor characteristics is possible only to Active Area, for example, Proxy persistence equal to 2.

## CHECK\_EXISTENCE\_IN\_ACTIVE\_AREA

This method checks whether the Article is present in the database (Active Area). This method uses the Function “BAPI\_MATERIAL\_EXISTENCECHECK” to check whether the Article referenced by the Purchase Info Record exists in Active Area.

If it exists in Active Area and if the user has not checked “Overwrite” option in DTIMPORT, the import of the Purchase Info Record will be rejected (Message 013: Article exists in Active Area; overwrite not allowed; Article rejected). Otherwise, if the “Overwrite” option is ticked the Article will be overridden.

The caller of this method will then the method call “USMD\_MSG\_TO\_BAPI\_MSG” to collect all the messages for Persistence option 3 (write to Active Area)

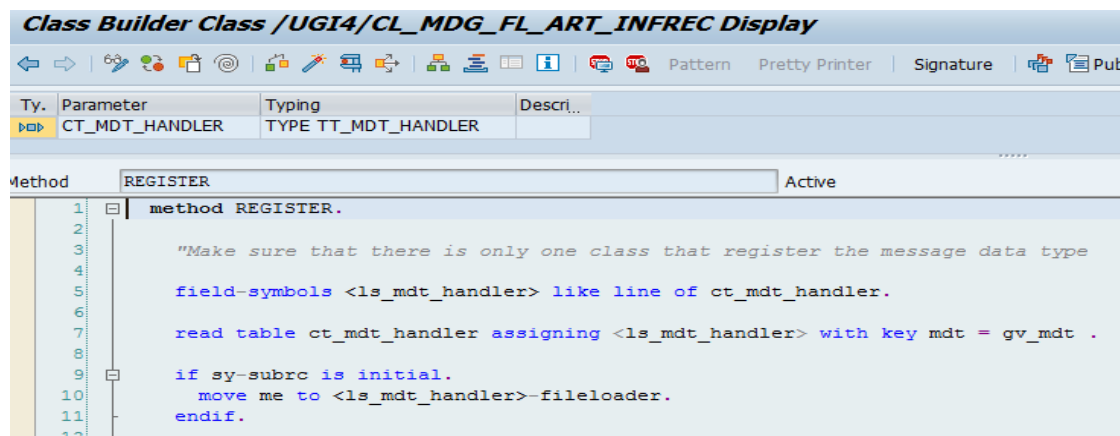
It finally calls the method “SAVE\_TO\_ACTIVE\_AREA” that internally calls the BAPI function and writes directly to Active Area if the persistence value is set as 3.

## CHECK\_EXISTENCE\_IN\_STAGING

This method checks If Material is associated with any Change Request, if found it rejects the Article. It uses the method call “cl\_usmd\_crequest\_api=>if\_usmd\_crequest\_api~retrieve\_crequest” by exporting entity, key value and data model to import CR data.

## Register

The method REGISTER needs to be re-defined by registering that this class will handle the message type.



## Testing Importing Class

Note that if the user uses the front-end Web Dynpro application mdg\_bs\_file\_import to import the files, then a job is scheduled in the background. This will hinder the user for debugging the import class.

1. To test the class, set the parameter MDG\_DL\_DEBUG = X in your user parameters tab.

**Display Users**

User: C5108433  
 Changed By: C5108433 31.05.2013 20:11:02 Status: Saved

Address Logon Data SNC Defaults Parameters Roles Profiles Groups Personalization Lic. Data

Parameters

Set/Get parameter ID	Parameter value	Short Description
MDG_DL_DEBUG	X	MDG Data Load Debug Mode

- This parameter is read in class CL\_MDG\_UPLOAD\_UI\_ASSIST method FILE\_UPLOAD. If the parameter is set, then users are able to put a remote breakpoint in the /UGI4/CL\_MDG\_FL\_ART\_INFREC class to debug. Web Dynpro Applications

In EhP6, the new Web Dynpro application MDG\_BS\_FILE\_IMPORT (t-code DTIMPORT) is delivered.

The new Web Dynpro applications support

- One step process
- Aligned look and feel
- Enhanced file handling for import
- Improved mass import capabilities (allows asynchronous, scheduled and parallel processing via Web User Interface)
- Enhanced monitoring

## Export File for Article using IDoc's

IDoc Name: INFREC01

To export Article Master data, you need to configure a logical system for xml-IDoc extraction to the application server file system (in each client system). To achieve this, perform the following:

1. Create a Logical System (SALE)
2. Add IDoc type INFREC to Distribution Model (BD64)
3. Create an Outbound Partner Profile (WE20)
4. Create a xml-file port for IDoc processing (WE21)
5. Send Article data with t-code BD10, including classification data.

## Import Options

It is possible to perform a data import for one or more PIR (INFREC) IDoc xml files, with one or more IDocs per xml file, and with each IDoc containing one or more Articles.

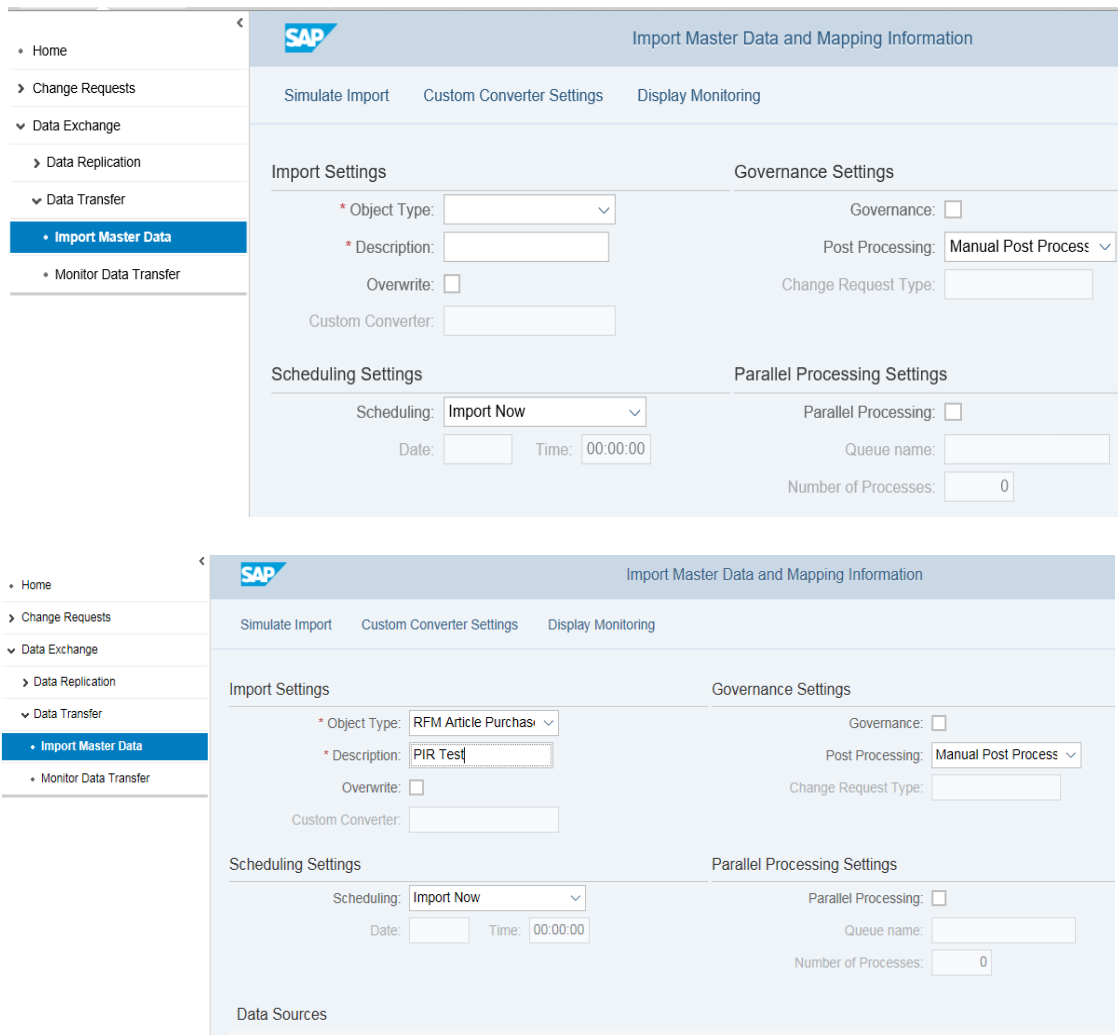
### Note:

The class to be assigned to Article must have been created in the MDG system before importing the Classification data.

Select options on MDG\_BS\_FILE\_IMPORT (DTIMPORT) is available for Import (Create/Change) Article to Active Area with Vendor Characteristics.

Use the following steps to import:

1. Go to NWBC > Click on Master Data Governance for RFM > Data Exchange > Data Transfer > Import Master Data.



The screenshots show the SAP 'Import Master Data and Mapping Information' web interface. The left sidebar contains a navigation menu with options: Home, Change Requests, Data Exchange, Data Replication, Data Transfer, Import Master Data (selected), and Monitor Data Transfer. The main content area is titled 'Import Master Data and Mapping Information' and includes tabs for 'Simulate Import', 'Custom Converter Settings', and 'Display Monitoring'. The 'Import Settings' section contains fields for Object Type (dropdown), Description (text), Overwrite (checkbox), and Custom Converter (text). The 'Governance Settings' section includes Governance (checkbox), Post Processing (dropdown set to 'Manual Post Process'), and Change Request Type (text). The 'Scheduling Settings' section has Scheduling (dropdown set to 'Import Now') and Date/Time fields. The 'Parallel Processing Settings' section includes Parallel Processing (checkbox), Queue name (text), and Number of Processes (text set to '0'). The bottom screenshot shows the same interface with values entered: Object Type 'RFM Article Purchas', Description 'PIR Test', Scheduling 'Import Now', and Parallel Processing '0'. A 'Data Sources' section is visible at the bottom of the second screenshot.

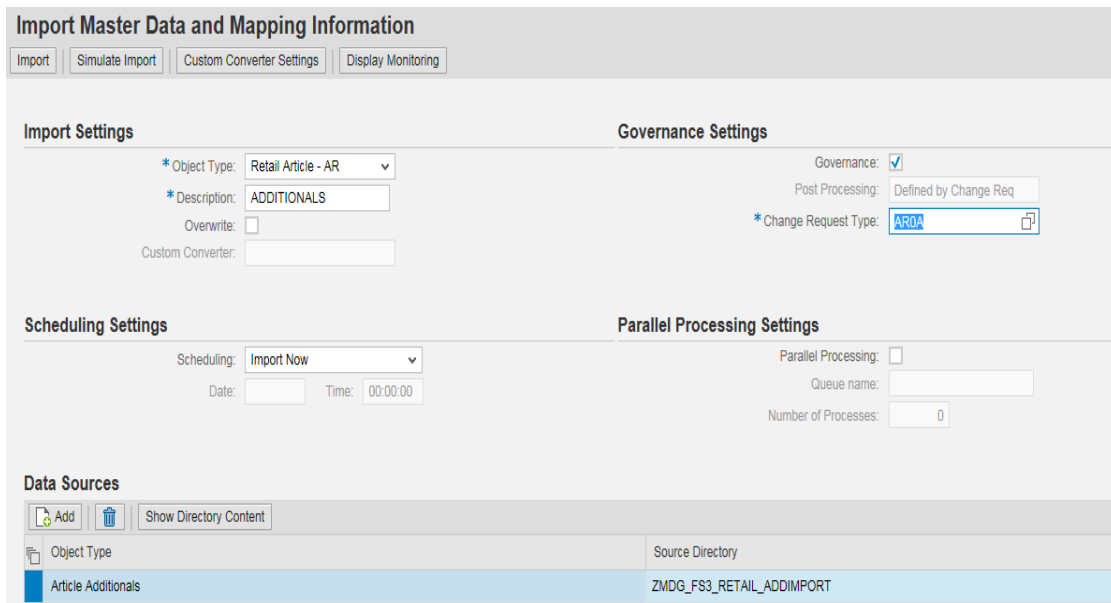
2. Enter the details for the fields as described in the following table:

Field	Description
Object Type	Choose Article AR0A
Description	Description that helps identify import processes in the monitoring / logging
Overwrite	<ul style="list-style-type: none"> <li>The overwrite option controls whether existing objects in the target system are overwritten.</li> <li>It can only be set if the IDoc will be imported to the Active Area.</li> <li>If you want to overwrite an Article in the Active Area, this indicator must be set. Otherwise, the import to the Active Area for an existing Article will fail. If the Overwrite indicator is set, the Article in the Active Area will be overwritten.</li> <li>If the Overwrite indicator is not set and the Article is already in the Active Area, the Article is rejected during import (and not written to the Staging area).</li> <li>Custom Converter User defined conversion. Usually there is no additional transformation needed in this step (if the format is a SAP standard format - either IDoc or SOA based).</li> </ul>
Governance	If activated, data is loaded into the Staging area (a change request will be created).
Post Processing	Post processing for failed objects can be done manually (using "Forward Error Handling" or IDoc Monitoring) or can be supported by a change request process.
Change Request Type	You have to select a change request type if "Governance" is set or "Post Processing defined by Change Request" is selected.
Scheduling / Date:	<ul style="list-style-type: none"> <li>Scheduling: Indicator to determine if import is done immediately or at a scheduled date.</li> <li>Date: scheduling date and time</li> </ul>
Parallel Processing / Queue Name / Number of Processes	<ul style="list-style-type: none"> <li>Parallel Processing: indicator to determine if the import will be done with parallel processes.</li> <li>Queue Name: qRFC queue name which has been registered in t-code SMQ2</li> </ul>

	<ul style="list-style-type: none"> <li>Number of Processes: The maximum number of parallel processes used.</li> </ul>
Data Sources	Selection of source directories for the object types. This can be one or many per object type, and depending on the data transfer customizing, there might be main object types (for example Article) and sub object types (for example Classification, Key Mapping, Value Mapping).
Import, Simulate Import	Starts the import process or a simulated import.
Custom Converter Settings	A customer-defined converter can be leveraged by the import process. This converter can be defined and integrated in the Customizing Activity Master Data Governance > General Settings > Data Transfer > Define Filter Converter Type/BAdI: Filter dependent BAdI for file converter.

## Display Monitoring

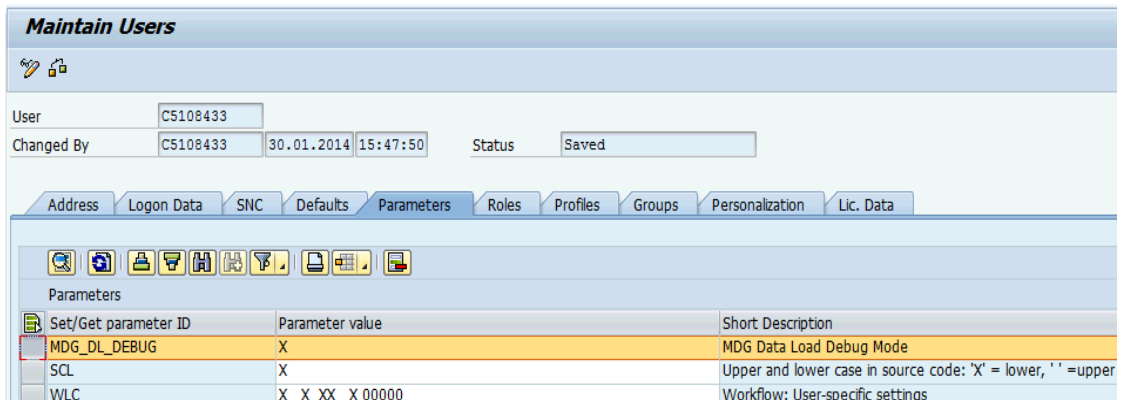
After the import has been started, you can navigate directly to the Monitoring. Web Dynpro application: MDG\_BS\_DL\_MONITOR\_CONF



## Scheduling File Import for MDG-RFM

Use the following steps to schedule File Import for MDG-RFM:

1. Ensure that the user does not have the MDG\_DL\_DEBUG parameter.

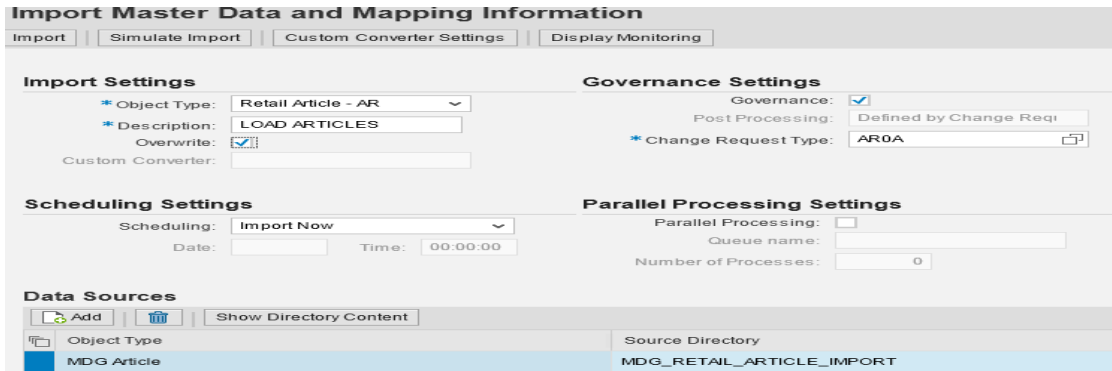


2. Start DTIMPORT and select Scheduling for Future Import (Select a future time).



You need at least one file in the folder before the user can schedule the import (standard MDG behavior).

3. Click Import.



**Import Master Data and Mapping Information**

Import | Simulate Import | Custom Converter Settings | Display Monitoring

**Import Settings**

\* Object Type: Retail Article - AR  
 \* Description: LOAD ARTICLES  
 Overwrite: ☒  
 Custom Converter:

**Governance Settings**

Governance: ☒  
 Post Processing: Defined by Change Request  
 \* Change Request Type: AR0A

**Scheduling Settings**

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

**Parallel Processing Settings**

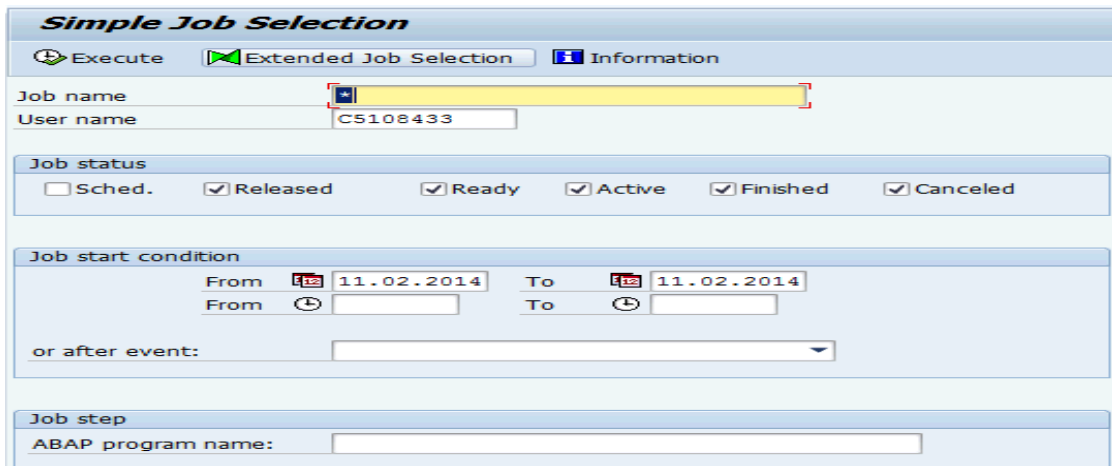
Parallel Processing: ☐  
 Queue name:  
 Number of Processes: 0

**Data Sources**

Add Show Directory Content

Object Type Source Directory  
 MDG Article MDG\_RETAIL\_ARTICLE\_IMPORT

4. Run t-code SM37 and look for the scheduled job that was created from DTIMPORT.



**Simple Job Selection**

Execute Extended Job Selection Information

Job name  
 User name C5108433

**Job status**

☐ Sched. ☒ Released ☒ Ready ☒ Active ☒ Finished ☒ Canceled

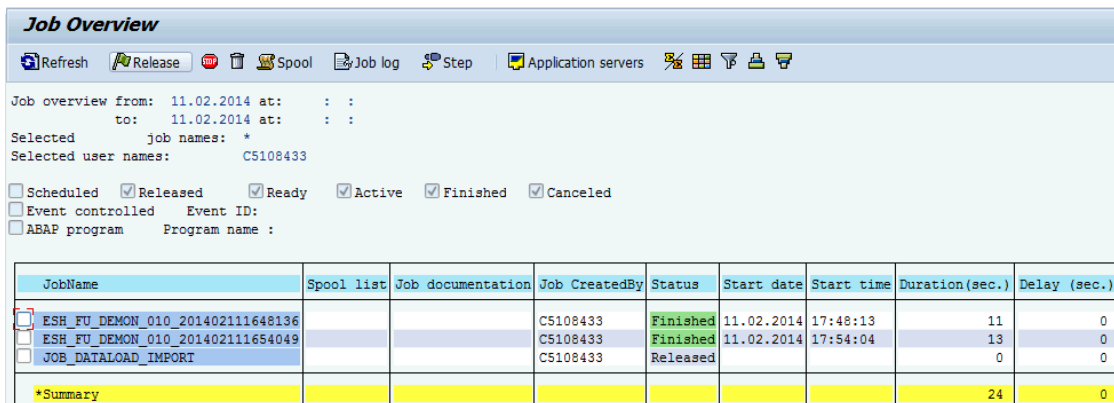
**Job start condition**

From 11.02.2014 To 11.02.2014  
 From To  
 or after event:

**Job step**

ABAP program name:

You can notice that a job JOB\_DATALOAD\_IMPORT released.



**Job Overview**

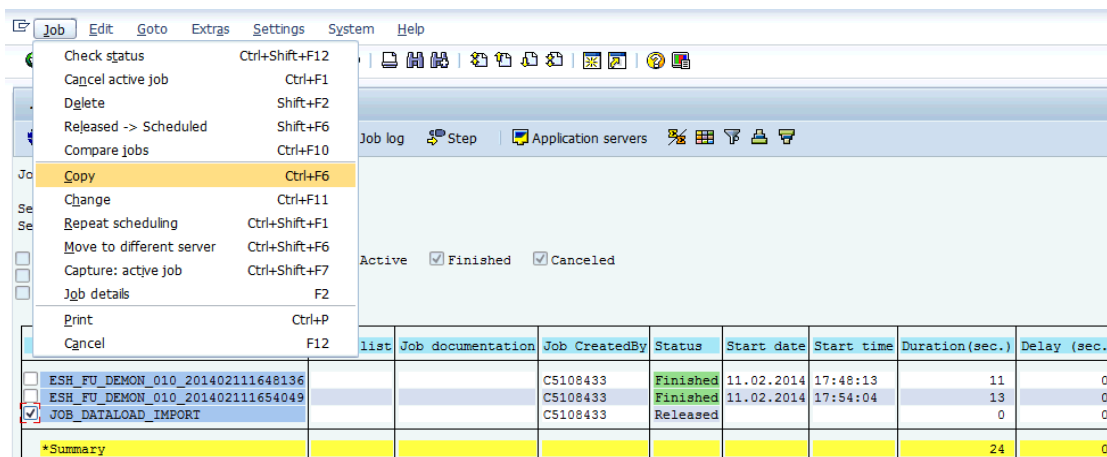
Refresh Release Spool Job log Step Application servers

Job overview from: 11.02.2014 at: : :  
 to: 11.02.2014 at: : :  
 Selected job names: \*  
 Selected user names: C5108433

☐ Scheduled ☒ Released ☒ Ready ☒ Active ☒ Finished ☒ Canceled  
☐ Event controlled Event ID:  
☐ ABAP program Program name :

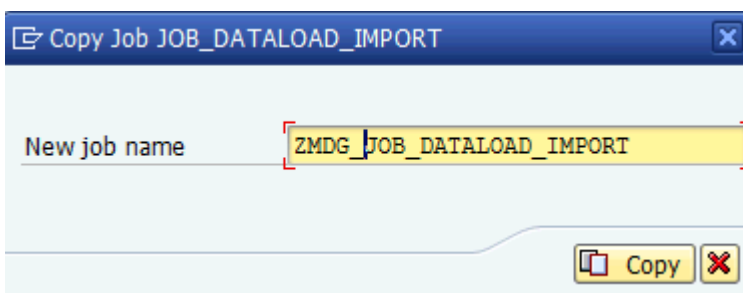
JobName	Spool list	Job documentation	Job CreatedBy	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
ESH_FU_DEMON_010_201402111648136			C5108433	Finished	11.02.2014	17:48:13	11	0
ESH_FU_DEMON_010_201402111654049			C5108433	Finished	11.02.2014	17:54:04	13	0
JOB_DATALOAD_IMPORT			C5108433	Released			0	0
*Summary							24	0

5. Copy the job to a new custom job.

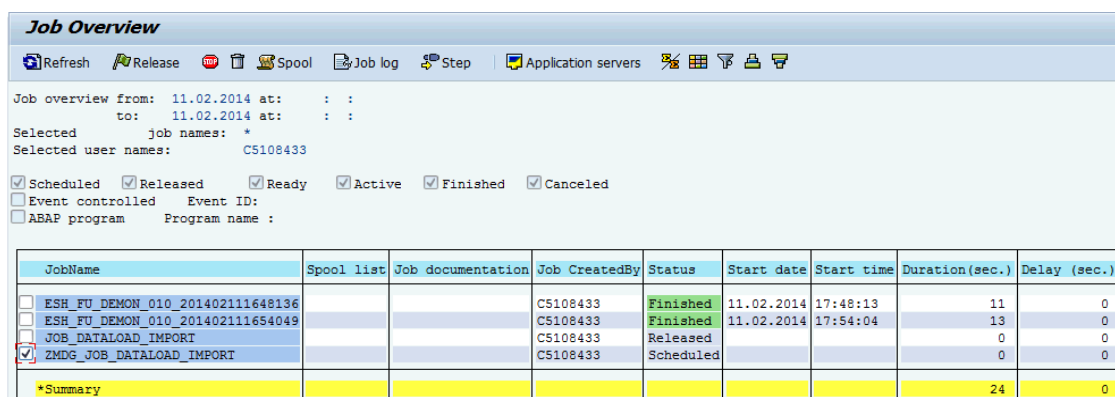


The screenshot shows the SAP Job menu with the 'Copy' option highlighted. The menu includes options like 'Check status', 'Cancel active job', 'Delete', 'Released -> Scheduled', 'Compare jobs', 'Copy', 'Change', 'Repeat scheduling', 'Move to different server', 'Capture: active job', 'Job details', 'Print', and 'Cancel'. The 'Copy' option is selected, and its keyboard shortcut 'Ctrl+F6' is displayed.

list	Job documentation	Job CreatedBy	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
<input type="checkbox"/>	ESH_FU_DEMON_010_201402111648136	CS108433	Finished	11.02.2014	17:48:13	11	0
<input type="checkbox"/>	ESH_FU_DEMON_010_201402111654049	CS108433	Finished	11.02.2014	17:54:04	13	0
<input checked="" type="checkbox"/>	JOB_DATALOAD_IMPORT	CS108433	Released			0	0
*Summary						24	0



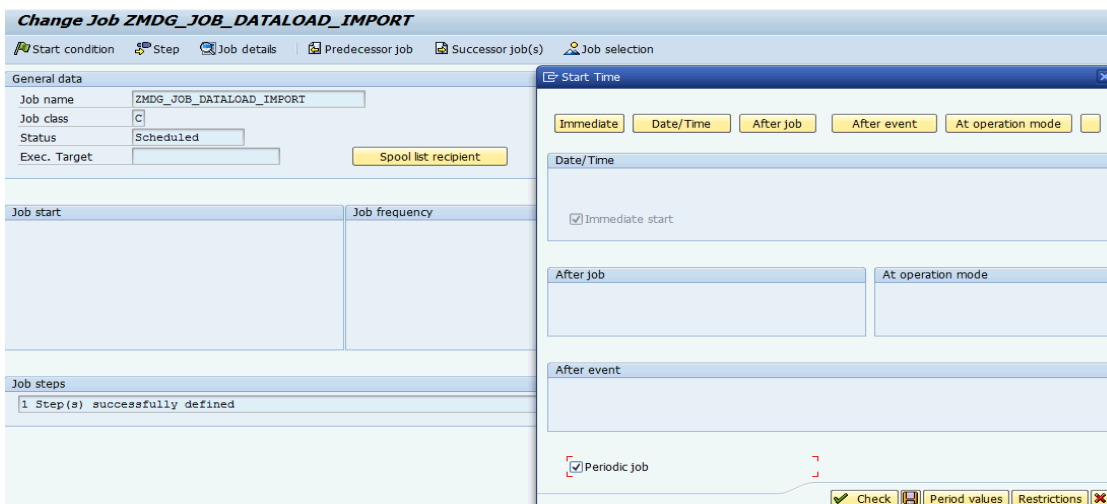
The screenshot shows the 'Copy Job' dialog box for 'JOB\_DATALOAD\_IMPORT'. The 'New job name' field contains 'ZMDG\_JOB\_DATALOAD\_IMPORT'. There are 'Copy' and 'Cancel' buttons at the bottom right.



The screenshot shows the 'Job Overview' screen. It displays a table of jobs with columns: JobName, Spool list, Job documentation, Job CreatedBy, Status, Start date, Start time, Duration(sec.), and Delay (sec.). The job 'ZMDG\_JOB\_DATALOAD\_IMPORT' is selected and has a status of 'Scheduled'.

JobName	Spool list	Job documentation	Job CreatedBy	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
<input type="checkbox"/>			CS108433	Finished	11.02.2014	17:48:13	11	0
<input type="checkbox"/>			CS108433	Finished	11.02.2014	17:54:04	13	0
<input type="checkbox"/>			CS108433	Released			0	0
<input checked="" type="checkbox"/>			CS108433	Scheduled			0	0
*Summary							24	0

6. After the job is copied, you can set the periodic value.
7. Save and start the job immediately.



The screenshot shows the 'Change Job' dialog box for 'ZMDG\_JOB\_DATALOAD\_IMPORT' and the 'Start Time' dialog box. The 'Start Time' dialog box has tabs for 'Immediate', 'Date/Time', 'After job', 'After event', and 'At operation mode'. The 'Immediate' tab is selected, and the 'Periodic job' checkbox is checked.

You notice that the job has been released.

Job Overview								
Job overview from: 11.02.2014 at: : : to: 11.02.2014 at: : : Selected job names: * Selected user names: C5108433 <input checked="" type="checkbox"/> Scheduled <input checked="" type="checkbox"/> Released <input checked="" type="checkbox"/> Ready <input checked="" type="checkbox"/> Active <input checked="" type="checkbox"/> Finished <input checked="" type="checkbox"/> Canceled <input type="checkbox"/> Event controlled Event ID: : <input type="checkbox"/> ABAP program Program name :								
JobName	Spool list	Job documentation	Job CreatedBy	Status	Start date	Start time	Duration(sec.)	Delay (sec.)
<input type="checkbox"/> ESH_FU_DEMON_010_201402111648136			C5108433	Finished	11.02.2014	17:48:13	11	0
<input type="checkbox"/> ESH_FU_DEMON_010_201402111654049			C5108433	Finished	11.02.2014	17:54:04	13	0
<input type="checkbox"/> ESH_FU_DEMON_010_201402111658085			C5108433	Finished	11.02.2014	17:58:08	11	0
<input checked="" type="checkbox"/> ZMDG_JOB_DATALOAD_IMPORT			C5108433	Released			0	0
<input type="checkbox"/> ZMDG_JOB_DATALOAD_IMPORT			C5108433	Finished	11.02.2014	17:58:07	1	0
*Summary							36	0

8. Run t-code SLG1 for any errors.

Display logs				
Date/Time/User	Nu...	External ID	Object txt	Sub-object text
11.02.2014 19:31:19 WF-BATCH	1		Business Workfl...	System Job S...
11.02.2014 19:41:54 C5108433	19	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:41:54 C5108433	6	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:41:57 C5108433	20	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:45:31 C5108433	3	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:45:32 C5108433	6	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:46:13 C5108433	20	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:46:50 C5108433	3	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:46:50 C5108433	6	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:47:11 C5108433	20	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:47:51 C5108433	3	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:49:13 C5108433	6	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:50:20 C5108433	3	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:51:20 C5108433	6	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:51:20 C5108433	3	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:51:20 WF-BATCH	1		Business Workfl...	System Job S...
11.02.2014 19:52:20 C5108433	6	10000425/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
Problem class Additional Information	1			
Problem class Other	6			

## Error Handling

It is possible to perform data import for one or more INFREC IDoc xml files, with one or more IDocs per xml file, and with each IDoc containing one or more materials.

Scenario	No of xml Files	Import to Active Area	Import to Active Area, with errors sent to Staging Area	Import to Staging Area
1IDoc, 1 Article	1 xml	If Article has invalid data, import for the IDoc fails, with an error message providing what went wrong.	If Article has invalid data, writing to Active Area fails and the Article is written to the Staging area. An error message is displayed in log providing information on what went wrong while saving to the Active Area, along with the created change request number. If Article is rejected while writing to Staging area, an error message is displayed providing information on what went wrong.	If one Article is rejected while writing to the Staging area, all Article from the whole IDoc xml are rejected (all or nothing) and an error message is displayed providing information on what went wrong like 'PIR import

Scenario	No of xml Files	Import to Active Area	Import to Active Area, with errors sent to Staging Area	Import to Staging Area
1 IDoc and N Articles	1 xml	If one of the IDoc has individual data (e.g. invalid Purchasing Org.), all the Articles in IDoc are rejected (all or nothing behavior of IDoc_INPUT_INFREC). For conditions like Article already present in Active Area or locked in open CR, specific Article objects will be rejected, while other Article objects from the IDocs are processed normally.	If one Article in IDoc has invalid data (e.g. Purchasing Org.), writing to Active Area fails and all Articles in IDoc are written to the Staging area. If Article is rejected by Staging area, reject all Articles from the whole IDoc xml that should have been posted to Staging area (Gov. API is "All or nothing"). An error message is placed providing information what went wrong.	rejected; Article & is not in Active Area'
N IDocs and 1 Article each	1 xml/ IDoc	Same as row 2 – 1 IDoc n 1 Article	Same as row 2 – 1 IDoc n 1 Article	
N IDoc and 1 Article	1 xml for all IDoc	Data import fails for the IDoc containing the erroneous Article, with error message providing information on what went wrong. Other IDocs are processed manually.	If one Article in IDoc has invalid data (e.g. Purchasing grp), writing to the Active Area fails and all Articles in that IDoc are written to the Staging area. If Articles are rejected by the Staging area, reject all Articles from the whole IDoc xml that should have been posted to the Staging area (Gov. API is "All or Nothing"). An error message is displayed providing information on what went wrong.	
N IDoc and m Article each	1 xml for all IDoc	If one Article in IDoc has invalid data (e.g Invalid UoM). All Articles in that IDoc are rejected. (Other IDocs in the same xml without erroneous Article will be processed normally). For conditions like Article already present in Active Area or locked in other open CR, specific Article objects will be rejected while other Article objects from IDocs are processed normally.		
N IDocs and m Articles	1 xml/ IDoc	Same as row 3 – 1 Doc n Article		

## Glossary

This section provides the list of key terms, abbreviations and acronyms.

Term/Abbreviations	Description
BOM	Bill of Material
CR	Change Request
DB	Database
EAM	Enterprise Asset Management
GW	Gateway
ICF	Internet Communication Framework
IDoc	Intermediate Document

MRO	Maintenance, Repair, and Overhaul
NW	NetWeaver
OData	Open Data Protocol
RFM	Retail and Fashion Management
t-code	SAP Transaction Code
UI	User Interface