

# How-To Guide: Mass Import Substitution Entity 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 Substitution.

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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## Introduction

This reference guide helps you understand the Mass Import of Article Master Substitution in Prometheus Group Retail and Fashion Management (RFM) S/4HANA on Master Data Governance. This guide 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 Substitution 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 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.

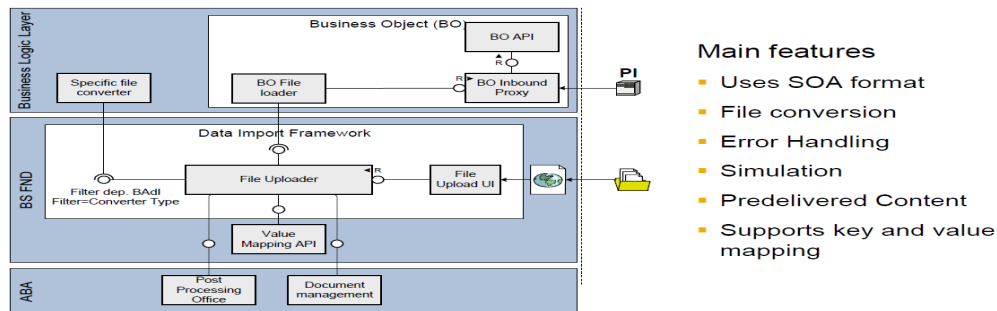
To transfer master data and mapping information, use the following steps:

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.



## Using DIF for Article Substitution Data Overview

This section provides the background information about using the DIF for Article Substitution 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 Substitution as per the customer requirements.

## Customizing

### Define Object Types

- 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

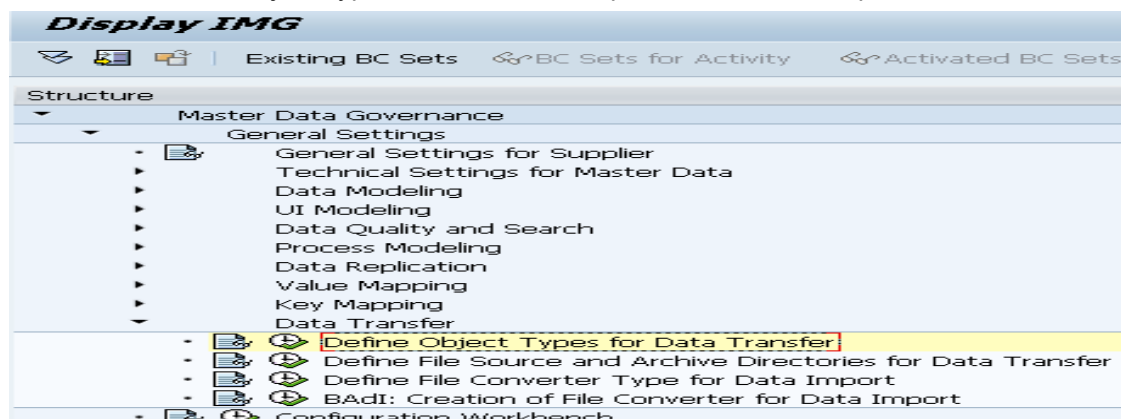
The customizing delivered with the solution enables you to run DIF with the SAP Standard Basic Types for Substitution (/UGI8/SUBSTITUTION). If you want to use a Custom Basic Type, you need to enhance this customizing activity.

Change View "Business Activity: Definition": Overview						
    						
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

- 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.



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.

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

Obj. Type	Description	BO Type	Description
RSLT	UOM: Forecast Result	GHO_FC_RS	UOM: Forecast Result
SCNR	UOM: Forecast Scenario	GHO_FC_SC	UOM: Forecast Scenario
SUPP	Supplier (via IDoc)	266	Supplier
UADI	RFM Article Additional	/UGI4/ADDI	Article Additional
UAHR	RFM Article Hierarchy	/UGI4/ARHR	Article Hierarchy
UART	RFM Retail Article	DRF_0017	Article (Retail)
UASR	RFM Article Assortment	/UGI4/ASRT	Article Assortment
UBOM	RFM Article Components	/UGI4/BOMM	BOMMAT
UCOM	RFM Article Components	/UGI4/BOMM	BOMMAT
ULYM	RFM Article Layout Modules	/UGI4/LAYM	Article Layout Modules
UPIR	RFM Article Purchase Info record	/UGI4/PIR	Purchase Info record
URCL	RFM Article Master Classification	DRF_0011	Classification (ERP/ALE)
USUB	RFM Article Substitution	/UGI4/SUBS	Article Substitution
UWYT	RFM Article Vendor Characteristics	/UGI4/WYT2	Article Vendor Characteristics
VM	VALUE MAPPING	1410	Value Mapping
WLT	UOM: Import Well Test Data	GHO_FD_WLT	UOM: Import Well Test Data

- Specify the Msg. Data Type.

In Retail Article, it is expected that the /UGI8/SUBSTITUTION\_01 IDoc is imported.

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.

- 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 /UGI8/SUBSTITUTION\_01).

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

Dialog Structure

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

Object Type: **USUB**

Msg. Data Type: **/UGI8/SUBSTITUTION\_01**

Detailed information for Object types

Msg. Data Type:

Namespace:

Import Class: **/UGI4/CL\_MDG\_FL\_ART\_SUBSTITUTIN**

Conv. Class:

☐ Active Conv.

☒ Active Import

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.

**Display View "Object List": Overview**

Dialog Structure

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

Object Type: **USUB**

Obj. List	Seq.
USUB	1

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

**Display View "Object List": Overview**

Dialog Structure

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

Object Type: **UART**

Obj. List	Seq.
UADI	3
UAHR	6
UART	1
UASR	8
UBOM	7
UCOM	7
ULYM	9
UPIR	2
USUB	4
UWYT	5

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

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

Dialog Structure

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

Define Object types for Data Transfer

Obj. Type	Description	BO Type	Description
RSLT	UOM: Forecast Result	GHO_FC_RS	UOM: Forecast Result
SCNR	UOM: Forecast Scenario	GHO_FC_SC	UOM: Forecast Scenario
SUPP	Supplier (via IDoc)	266	Supplier
UADI	RFM Article Additional	/UGI4/ADDI	Article Additional
UAHR	RFM Article Hierarchy	/UGI4/ARHR	Article Hierarchy
UART	RFM Retail Article	DRF_0017	Article (Retail)
UASR	RFM Article Assortment	/UGI4/ASRT	Article Assortment
UBOM	RFM Article Components	/UGI4/BOMM	BOMMAT
UCOM	RFM Article Components	/UGI4/BOMM	BOMMAT
ULYM	RFM Article Layout Modules	/UGI4/LAYM	Article Layout Modules
UPIR	RFM Article Purchase Info record	/UGI4/PIR	Purchase Info record
URCL	RFM Article Master Classification	DRF_0011	Classification (ERP/ALE)
USUB	RFM Article Substitution	/UGI4/SUBS	Article Substitution
UWYT	RFM Article Vendor Characteristics	/UGI4/WYT2	Article Vendor Characteristics
VM	VALUE MAPPING	1410	Value Mapping
WLT	UOM: Import Well Test Data	GHO_FD_WLT	UOM: Import Well Test Data

## 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, see 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.

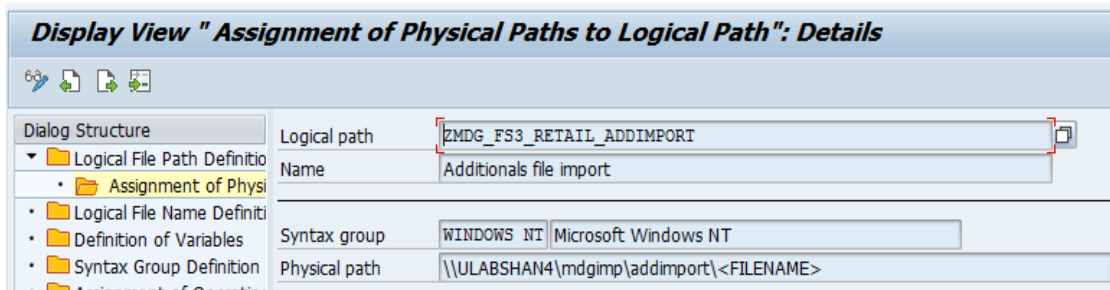
Consider creating several object-specific logical directories.

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 set up FILE transaction in MDG-RFM:

1. Set up two logical paths in Transaction File
  - Path for the import files: ZMDG\_FS3\_RETAIL\_SUBS\_IMPORT
  - Path for the archive folder: ZMDG\_FS3\_RETAIL\_ARCHIVE



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

Dialog Structure

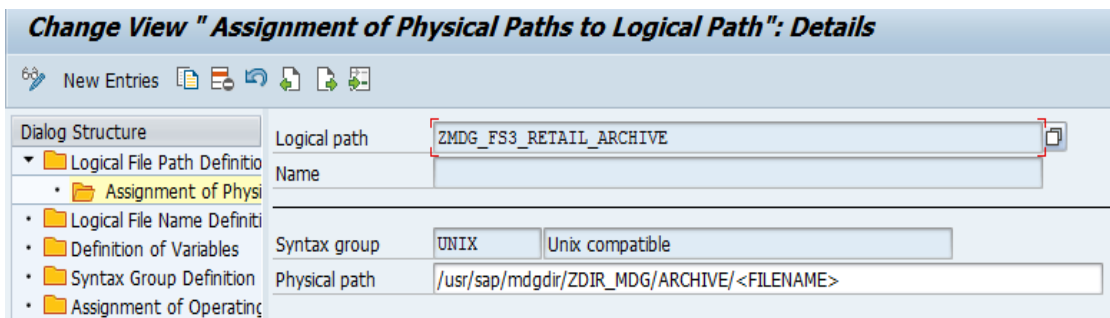
- Logical File Path Definition
  - Assignment of Physical Paths
- Logical File Name Definition
- Definition of Variables
- Syntax Group Definition
- Assignment of Operating

Logical path: ZMDG\_FS3\_RETAIL\_ADDIMPORT

Name: Additional file import

Syntax group: WINDOWS NT | Microsoft Windows NT

Physical path: \\ULABSHAN4\mdgimp\addimport\<FILENAME>



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

Dialog Structure

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

Logical path: ZMDG\_FS3\_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

<b>Dialog Structure</b>	Log. File	ZMDG_FS3_RETAIL_SUBS_IMPORT
<ul style="list-style-type: none"> <li>Logical File Path Definition           <ul style="list-style-type: none"> <li>Assignment of Physical File</li> <li><b>Logical File Name Definition</b></li> <li>Definition of Variables</li> <li>Syntax Group Definition</li> <li>Assignment of Operating System</li> </ul> </li> </ul>	Name	ZMDG_FS3_RETAIL_SUBS_IMPORT
	Physical file	<PARAM_1>
	Data format	BIN
	Applicat.area	BC
	Logical path	ZMDG_FS3_RETAIL_SUBS_IMPORT

## Define File Source and Archive Directories for Data Transfer

The logical file path that was created in transaction code FILE is used. It is necessary to have an archive path for importing Object Types.

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

Dialog Structure

- Data Transfer Directories
- Archive Path for Object

Logical File Path	Descript.
ZMDG_ARTICLE_BOM_IMPORT	BOMMAT
ZMDG_ARTICLE_HIER_IMPORT	Article Hierarchy Import
ZMDG_FS3_RETAIL_ADDIMPORT	Article Import
<b>ZMDG_FS3_RETAIL_ARCHIVE</b>	<b>Article Archive path</b>
ZMDG_FS3_RETAIL_IMPORT	Article Retail Import
ZMDG_FS3_RETAIL_PIR_IMPORT	Article PIR Import
<b>ZMDG_FS3_RETAIL_SUBS_IMPORT</b>	<b>Article Subs Import</b>
ZMDG_FS3_RETAIL_WYT2_IMPORT	

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

Dialog Structure

- Data Transfer Directories
- Archive Path for Object**

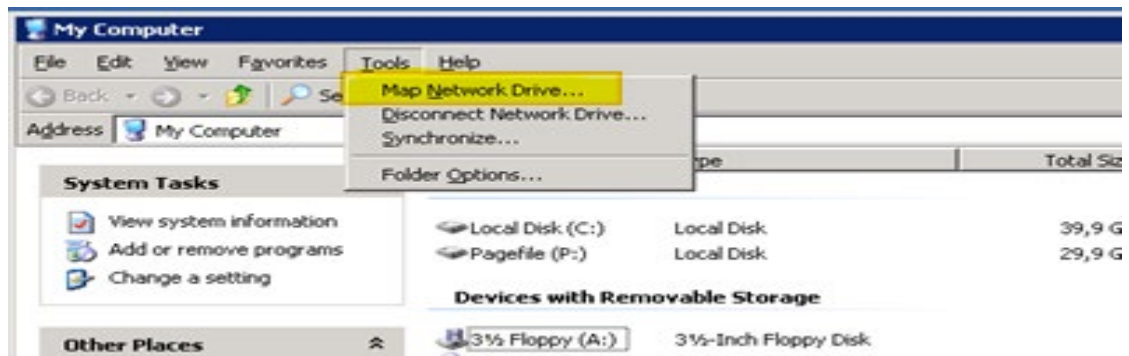
Obj. Type	Archive Directory
JADI	ZMDG_FS3_RETAIL_ARCHIVE
UAHR	ZMDG_FS3_RETAIL_ARCHIVE
UART	ZMDG_FS3_RETAIL_ARCHIVE
UASR	ZMDG_FS3_RETAIL_ARCHIVE
UBOM	ZMDG_FS3_RETAIL_ARCHIVE
UCOM	ZMDG_FS3_RETAIL_ARCHIVE
ULYM	ZMDG_FS3_RETAIL_ARCHIVE
UPIR	ZMDG_FS3_RETAIL_ARCHIVE
URCL	ZMDG_FS3_RETAIL_ARCHIVE
USUB	ZMDG_FS3_RETAIL_ARCHIVE
UWYT	ZMDG_FS3_RETAIL_ARCHIVE

## Setup File Import Folder

Use the following steps to setup the File Import folder.

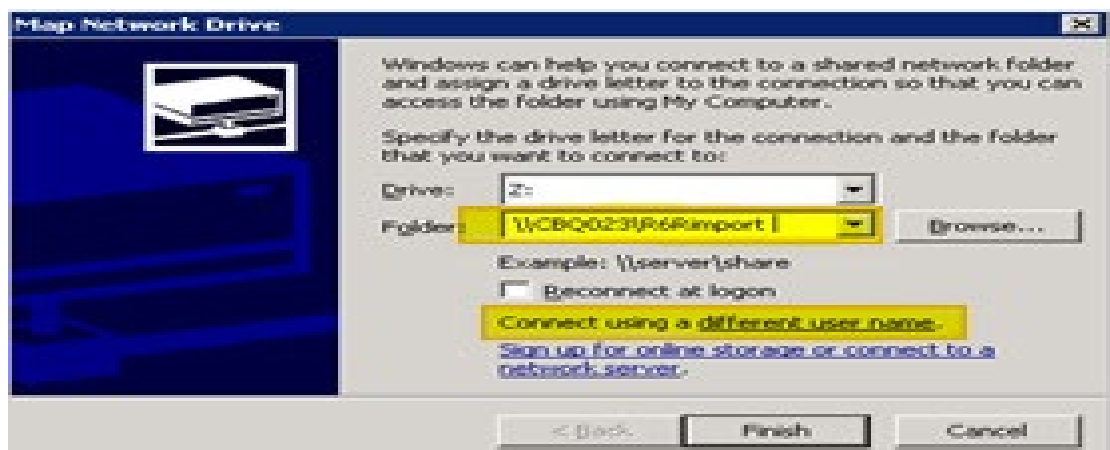
1. From menu bar, click Tools > Map Network Drive.



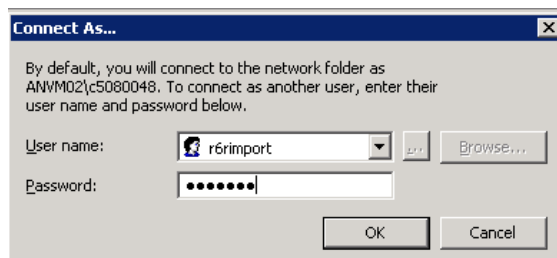


The system displays the Map Network Driver window

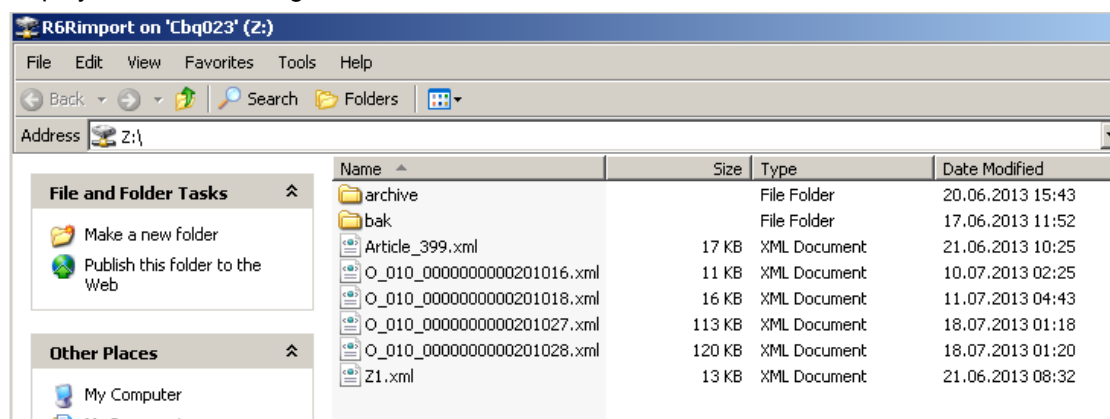
- Click Folder dropdown list and select the relevant folder



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



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

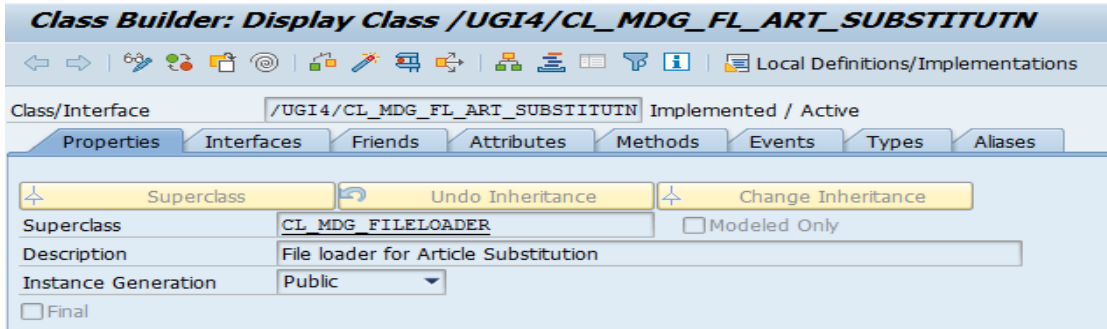


Import xml files are saved into this folder.

## Loader Class

### Class - /UGI4/CL\_MDG\_FL\_ART\_SUBSTITUTN

/UGI4/CL\_MDG\_FL\_ART\_SUBSTITUTN 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 following important points of a loader class are listed:

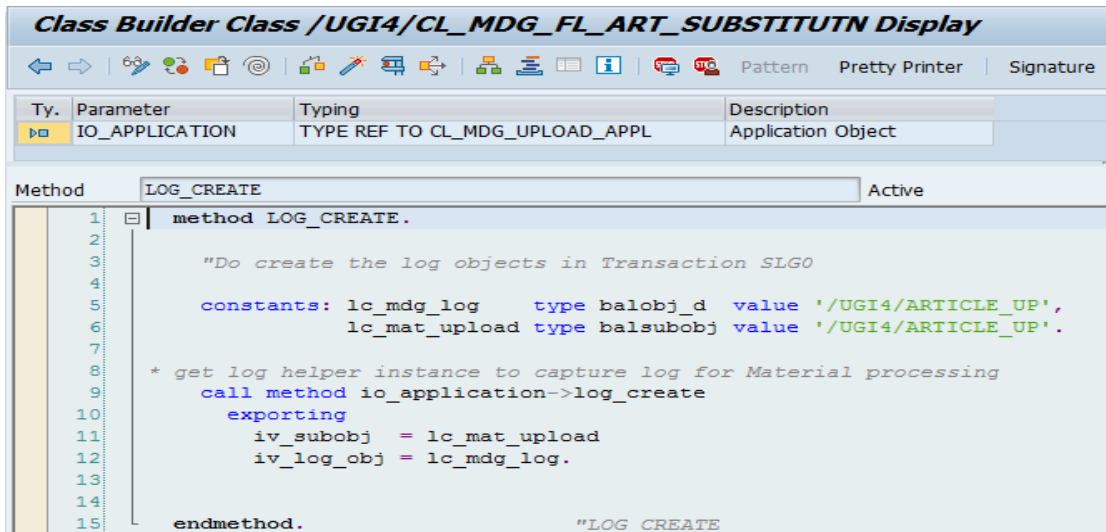
- The DTIMPORT framework setting is read using the method "read\_user\_settings".
- One of the import parameters in this method iv\_content brings in business data in xml content that is converted into various IDoc segments using method "get\_idoc\_data" in an external format.
- The external format data 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 will fetch 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)

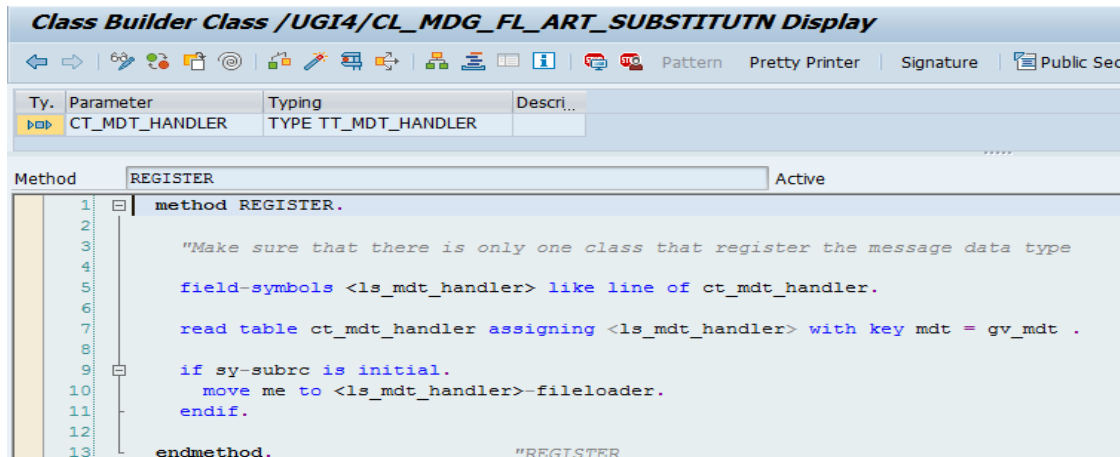
It finally calls the method “SAVE\_TO\_ACTIVE\_AREA” that internally calls the BAPI function and writes directly to Active Area if the persistence value is set as 3.

## 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

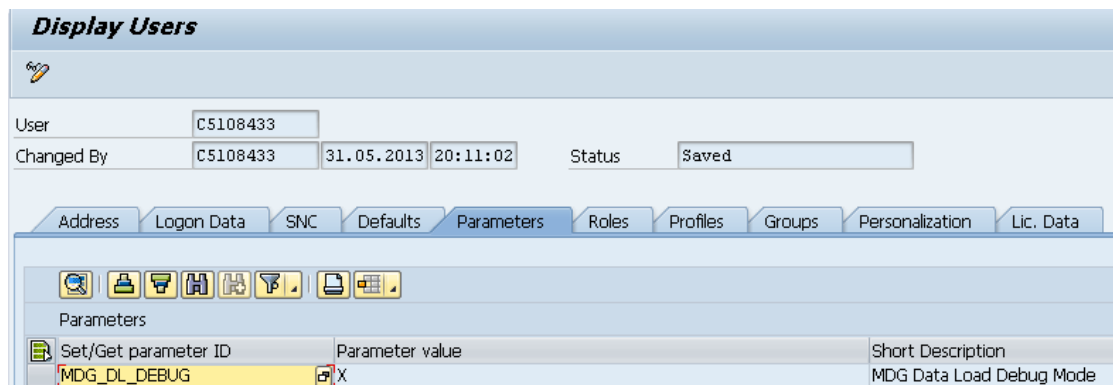
The method REGISTER needs to be re-defined by registering that this class will handle the message type.



## 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.



2. This parameter is read in class **CL\_MDG\_UPLOAD\_UI\_ASSIST** method **FILE\_UPLOAD**. If the parameter is set, then users can put a remote breakpoint in the **/UGI4/CL\_MDG\_FL\_ART\_SUBSTITUTN** 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 supports:

- 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 IDocs

IDoc Name: /UGI8/SUBSTITUTION

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 /UGI8/SUBSTITUTION 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 transaction BD10, including Substitution data

## Import Options

It is possible to perform a data import for one or more Substitution (/UGI8/SUBSTITUTION) IDoc xml files, with one or more IDocs per xml file, and with each IDoc containing one or more Articles.

**Note:** That the Article should already be existing to create/change the Substitution data.

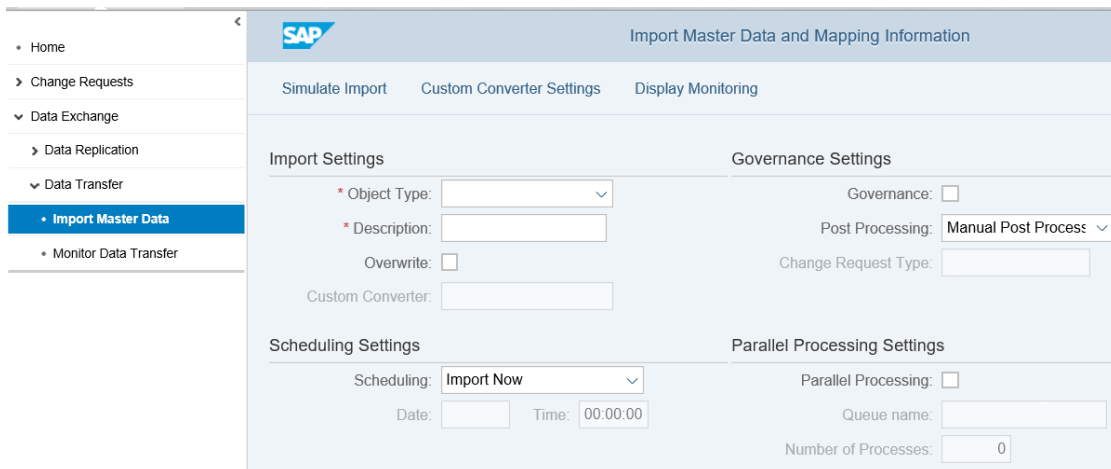
The following options are available for:

- Import (Create/Change) article to Active Area with Substitution Articles.
- Import (Create/Change) article to Active Area with Substitution Articles in case of errors write to Staging
- Import (Create/Change) article to Staging Area with Substitution Articles

Select Options on MDG\_BS\_FILE\_IMPORT (DTIMPORT)

Use the following steps to import.

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



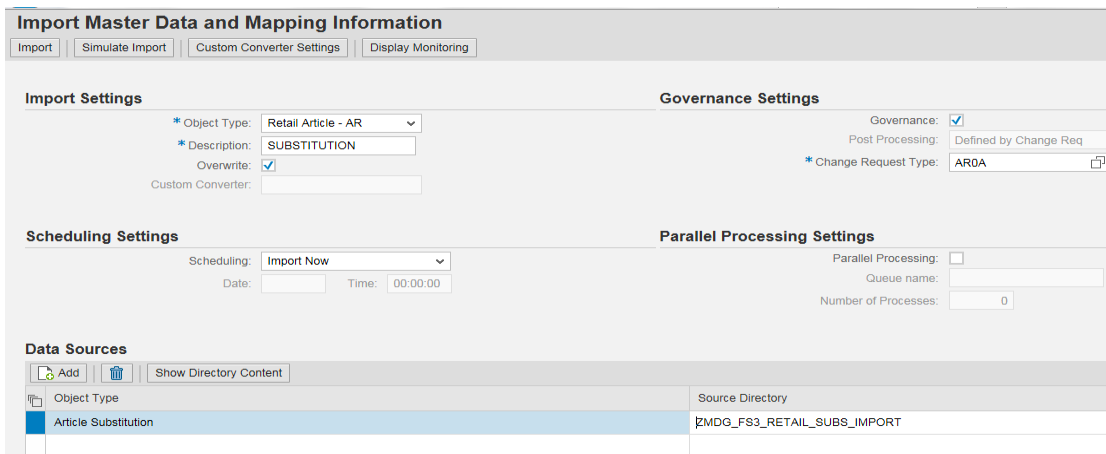
2. Enter the details for the fields as described in the following table:

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 must 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> <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 Substitution, 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.



**Import Master Data and Mapping Information**

Import | Simulate Import | Custom Converter Settings | **Display Monitoring**

**Import Settings**

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

**Governance Settings**

Governance: ☒  
 Post Processing: Defined by Change Req  
 \* 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**

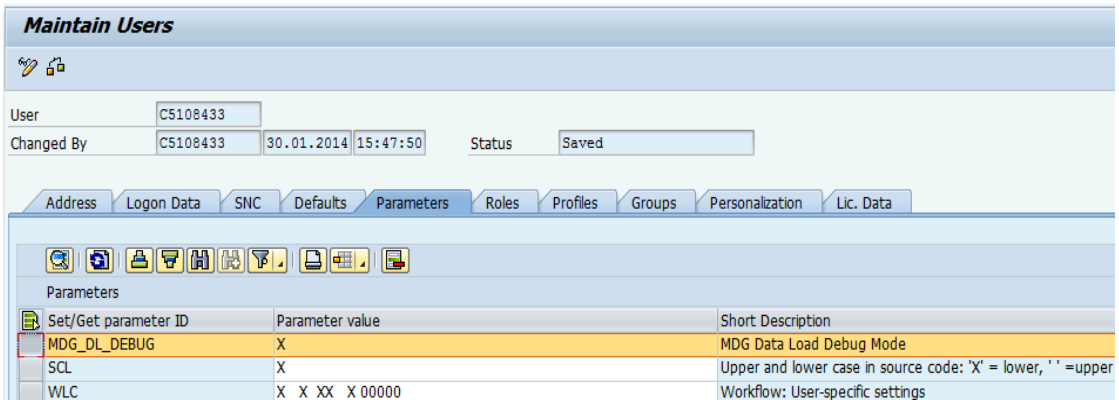
+ Add + Show Directory Content

Object Type	Source Directory
Article Substitution	ZMDG_FS3_RETAIL_SUBS_IMPORT

## 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.



**Maintain Users**

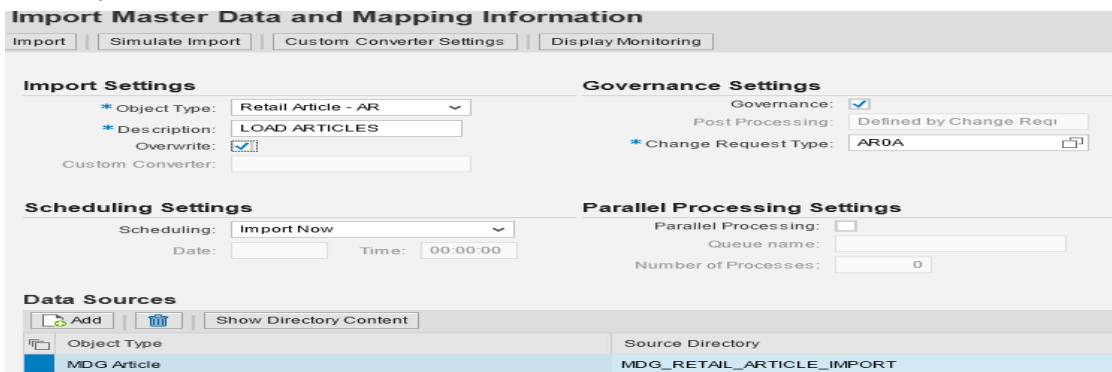
User: C5108433  
 Changed By: C5108433 30.01.2014 15:47:50 Status: Saved

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
SCL	X	Upper and lower case in source code: 'X' = lower, ' ' = upper
WLC	X X XX X 00000	Workflow: User-specific settings

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 Requi  
 \* Change Request Type: AR0A

**Scheduling Settings**

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

**Parallel Processing Settings**

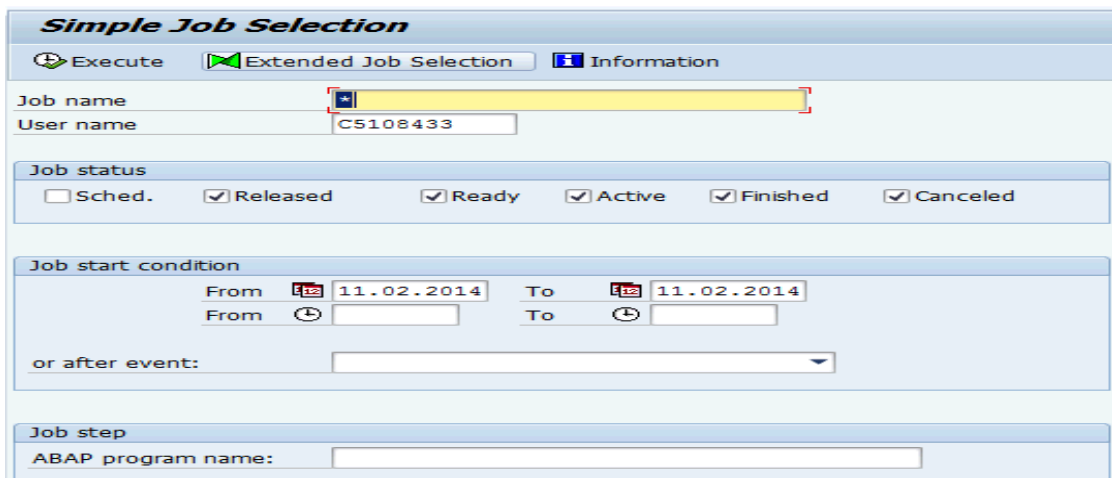
Parallel Processing: ☐  
 Queue name:  
 Number of Processes: 0

**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 there is 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.

Job Edit Goto Extras Settings System Help

Check status Ctrl+Shift+F12  
Cancel active job Ctrl+F1  
Delete Shift+F2  
Released -> Scheduled Shift+F6  
Compare jobs Ctrl+F10  
**Copy Ctrl+F6**  
Change Ctrl+F11  
Repeat scheduling Ctrl+Shift+F1  
Move to different server Ctrl+Shift+F6  
Capture: active job Ctrl+Shift+F7  
Job details F2  
Print Ctrl+P  
Cancel F12

Job log Step Application servers

Active ☒ Finished ☒ Canceled

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 checked="" type="checkbox"/>	JOB_DATALOAD_IMPORT	C5108433	Released			0	0
	*Summary					24	0

**Copy Job JOB\_DATALOAD\_IMPORT**

New job name **ZMDG\_JOB\_DATALOAD\_IMPORT**

Copy

**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.)
<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"/>	JOB_DATALOAD_IMPORT		C5108433	Released			0	0
<input checked="" type="checkbox"/>	ZMDG_JOB_DATALOAD_IMPORT		C5108433	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.

**Change Job ZMDG\_JOB\_DATALOAD\_IMPORT**

Start condition Step Job details Predecessor job Successor job(s) Job selection

**General data**

Job name: ZMDG\_JOB\_DATALOAD\_IMPORT  
 Job class: C  
 Status: Scheduled  
 Exec. Target:

**Job start** **Job frequency**

**Job steps**

1 Step(s) successfully defined

**Start Time**

Immediate Date/Time After job After event At operation mode

☒ Immediate start

After job:  At operation mode:

After event:

☒ Periodic job

## 8. You will notice that the job has been 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:  
☐ ABAF 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
ESH_FU_DEMON_010_201402111658085			C5108433	Finished	11.02.2014	17:58:08	11	0
ZMDG_JOB_DATALOAD_IMPORT			C5108433	Released			0	0
ZMDG_JOB_DATALOAD_IMPORT			C5108433	Finished	11.02.2014	17:58:07	1	0
<b>*Summary</b>							36	0

## 9. Run t-code SLG1 for any errors.

**Display logs**

Technical Information Help

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	3	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	19	CREQUEST_00...	Master Data Go...	Validation
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	CRrequest Dele...	Master Data Go...	Deletion of Cha... S
11.02.2014 19:46:50 C5108433	3	10000426/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:46:50 C5108433	6	10000426/SCH...	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:47:11 C5108433	20	CRrequest Dele...	Master Data Go...	Deletion of Cha... S
11.02.2014 19:47:51 C5108433	3	10000427/TEST	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:49:13 C5108433	6	10000427/TEST	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:50:20 C5108433	3	10000427/TEST	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:51:20 C5108433	3	10000427/TEST	MDG_FILE_PR...	MDG_FILE_UPL...
11.02.2014 19:51:20 WF-BATCH	1		Business Workfl...	System Job S...
Problem class Additional Information	1			
11.02.2014 19:52:20 C5108433	6	10000427/TEST	MDG_FILE_PR...	MDG_FILE_UPL...
Problem class Other	6			

Message Text

Description: TEST

Object Type Processing Sequence: MDG Article

Processing files from directory \\anvm100\sapmnt\trans\import\

Message Type INFREC01 detected for file 00\_ZFB030\_INFREC\_0000000000200029.xml

External Article ZZ026 already present in Change Request 1192 with key @993

Purchase Info. Record added to Change Request 1192.

## Error Handling

It is possible to perform data import for one or more /UGI8/SUBSTITUTION 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
1 IDoc, 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 it 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.
1 IDoc and n article	1 xml	If one of the IDoc has individual data (e.g. invalid Substitution data), all the article in IDoc are rejected (all or nothing behavior of/UGI8/MDG_AR_IDoc_INPUT_SUBST). 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. invalid Substitution Data), writing to Active Area fails and all article in IDoc are written to the Staging Area. If article is rejected by Staging Area, reject all article from the whole IDoc xml that should have been posted to Staging Area. An error message is placed providing information what went wrong.
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 Material
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. invalid substitution data), writing to the Active Area fails and all article in that IDoc are written to the Staging Area. If materials are rejected by the Staging Area, reject all articles from the whole IDoc xml that should have been posted to the Staging Area. An error message is displayed providing information on what went wrong.

## 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