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Configuring Master Data Governance for Utopia Solutions RFM for MDG™

Release 9.0 SP01 for S/4HANA 1610 SP01

Document History

The following table provides an overview of the most important document changes and approvals.

Version	Date	Description	Name
1.0	19 Jan 2017	Initial Version	Nacho Yoldi
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1. Introduction

This document provides the information you require to set up SAP Master Data Governance (MDG) for Utopia RFM Solutions for MDG™.

1.1. Purpose

This Configuration Guide provides the information you require to set up SAP Master Data Governance, retail and fashion management extension by Utopia for S/4 HANA version 9.0 on S/4HANA 1610 (Utopia Retail and Fashion Management (RFM) Solutions for MDG™ v9.0 for S/4HANA 1610).

1.2. Target Audience

The primary audience comprises:

- System Administrators
- Technical Consultants
- Functional Consultants

1.3. Organization

This is an optional section.

This guide primarily consists of the following sections.

Title	Description
Introduction	This Chapter describes the purpose of the Configuration Guide, end-users of the guide, and important sections of the guide.
Before You Start	This Chapter describes the necessary requirements to be fulfilled before starting the configuration process. This Chapter primarily comprises the following. <ul style="list-style-type: none"> • Prerequisites • Business Function • Setup Workflow
Configuration Process	This Chapter describes the sequence of configuration process steps as provided below. <ol style="list-style-type: none"> 1. Activate the Data Model AR 2. Activate Business Configuration Set 3. Verify UI Modelling [Optional] 4. UI Navigation <ol style="list-style-type: none"> a. Link Log. Actions with UI Application and Bus. Act.: Standard Definition b. Link Logical Actions with Business Activity: Standard Defini 5. Set Up Search 6. Verify Data Quality and Search Settings 7. Configure Change Request Settings 8. Configuring Variant Splitter

Title	Description
	9. Deploying MDG RFM 9.0 when MDG RFM 8.0 is already exists in your system 10. Configuring Workflow Tasks 11. Setting Up of the Rule-Based Workflow 12. Setting up Analytics for MDG 13. Choose Location to run SAP Master Data Governance 14. Executing Final steps
Post-configuration	This Chapter describes the post-configuration steps, and any trouble-shooting action.
Glossary	This Chapter describes the key terms and the abbreviations.

2. Before You Start

Before you start configuring SAP MDG, ensure that the following prerequisites are fulfilled.

The following topics are discussed in the section:

- **Error! Reference source not found.**
- **Error! Reference source not found.**
- Import MDG content for RFM
- **Error! Reference source not found.**
- **Error! Reference source not found.**
- **Error! Reference source not found.**
- **Error! Reference source not found.**
- Prerequisite Notes

2.1. Business Function

1. Before you activate the business functions (provided under Prerequisite 2 below), ensure that you have the administration authorization for MDG.

Note:

The required authorization objects are delivered with the authorization role SAP_MDG_ADMIN. In transaction **PFCG**, Utopia recommends you creating a copy of SAP_MDG_ADMIN role and assigning the relevant authorization values. For the authorization object USMD_DM Data Model you need to assign the values for the authorization field USMD_MODEL Data Model (here **AR**) and the values for the authorization activity ACTVT Activity.

Example

- **01:** Create or generate
 - **02:** Change.
2. Ensure that you have activated the following business functions
 - Business Function Set SAP Retail (ISR_RETAILSYSTEM)
 - Master Data Governance, Generic Functions (MDG_FOUNDATION)
 - Master Data Governance, Generic Functions 2 (MDG_FOUNDATION_2)
 - Master Data Governance, Generic Functions 3 (MDG_FOUNDATION_3)
 - Master Data Governance, Generic Functions 7.0 (MDG_FOUNDATION_4)
 - Master Data Governance, Generic Functions 7.0 Feat. Pack (MDG_FOUNDATION_5)
 - Master Data Governance, Generic Functions 8.0 (MDG_FOUNDATION_6)
 - Master Data Governance, Generic Functions 9.0 (MDG_FOUNDATION_7)

Note:

These business functions are available with MDG 9.0

3. For additional BCV Content, perform the following actions.
 - Activate business function /BCV/NWBC_SIDE_PANEL.
 - If you want to use the MDG for RFM homepage or the Business Context Viewer, activate the business functions /BCV/MAIN and /BCV/MAIN_1.
 For more information on the Business Context Viewer see, [Business Context Viewer in Single Processing](#) [External].

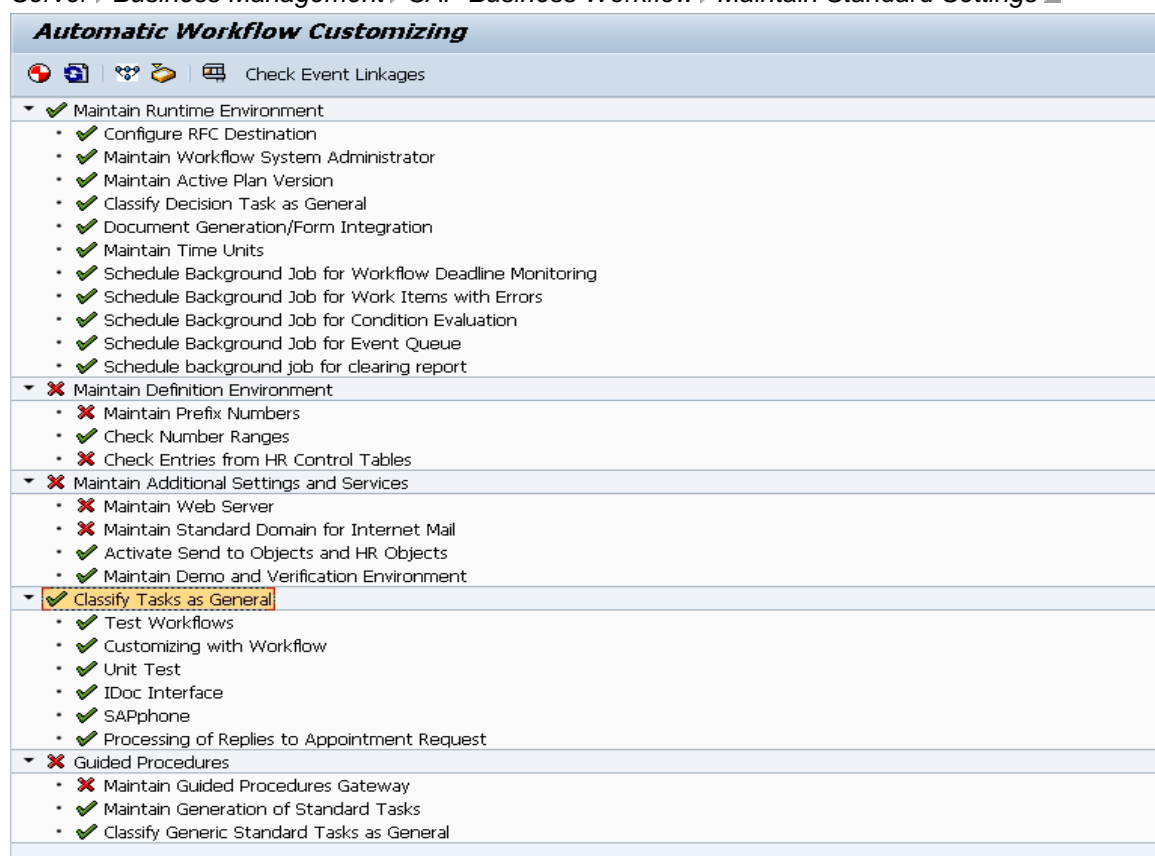
2.2. Set Up Workflow

- To use the rule-based workflow processes of SAP Master Data Governance, Retail and Fashion Management extension by Utopia TM, ensure that you have defined general settings for SAP Business Workflow [External] in Customizing for SAP NetWeaver under ► *Application Server* ► *Business Management* ► *SAP Business Workflow*.

Note:

Remember to regenerate the authorization profile of SAP_ALL or include USMD* authorization objects into the authorization for the user WF-Batch.

- To activate the workflow features, use the semi-automated configuration in transaction **SWU3**. Or Alternately, you can access these settings in Customizing under ► *SAP NetWeaver* ► *Application Server* ► *Business Management* ► *SAP Business Workflow* ► *Maintain Standard Settings*.



Automatic Workflow Customizing

Check Event Linkages

- ✓ Maintain Runtime Environment
 - ✓ Configure RFC Destination
 - ✓ Maintain Workflow System Administrator
 - ✓ Maintain Active Plan Version
 - ✓ Classify Decision Task as General
 - ✓ Document Generation/Form Integration
 - ✓ Maintain Time Units
 - ✓ Schedule Background Job for Workflow Deadline Monitoring
 - ✓ Schedule Background Job for Work Items with Errors
 - ✓ Schedule Background Job for Condition Evaluation
 - ✓ Schedule Background Job for Event Queue
 - ✓ Schedule background job for clearing report
- ✗ Maintain Definition Environment
 - ✗ Maintain Prefix Numbers
 - ✓ Check Number Ranges
 - ✗ Check Entries from HR Control Tables
- ✗ Maintain Additional Settings and Services
 - ✗ Maintain Web Server
 - ✗ Maintain Standard Domain for Internet Mail
 - ✓ Activate Send to Objects and HR Objects
 - ✓ Maintain Demo and Verification Environment
- ✓ Classify Tasks as General
 - ✓ Test Workflows
 - ✓ Customizing with Workflow
 - ✓ Unit Test
 - ✓ IDoc Interface
 - ✓ SAPphone
 - ✓ Processing of Replies to Appointment Request
- ✗ Guided Procedures
 - ✗ Maintain Guided Procedures Gateway
 - ✓ Maintain Generation of Standard Tasks
 - ✓ Classify Generic Standard Tasks as General

For further information, see the documentation for the Configuration activity. Note the following while maintaining the settings:

- When you are configuring the RFC destination, super user authorization is required to create the default WF-BATCH user.
- Regenerate the authorization profile for SAP_ALL or include the USMD* authorization objects into the authorizations of the user WF-Batch.

- For the **Check Entries from HR Control Tables** section, execute report RHSOBJCH in transaction **SE38** and keep the default settings.
- Maintain the prefix numbers for the standard objects.
- You do not require to maintain the Web Server node and Guided Procedures section.

2.3. Import MDG Content for RFM

For this activity, refer to MDG-RFM Installation Guide [External File].

2.4. Adjust Profile Parameters

- setting, run transaction **RZ11** and verify that the value for parameter `abap/shared_objects_size_MB` is between 200 and 400 megabytes.
- If you want to use the *SAP NetWeaver Business Client* with single sign on (SSO), ensure that the parameters `login/create_sso2_ticket` (2) and `login/accept_sso2_ticket` (1) are set correctly.
- Use transaction **RZ11** to check that the host name is fully qualified for parameter `icm/host_name_full`.

Assign the MDG-RFM standard roles to the users, depending on their responsibilities in the Company:

- `/UGI4/MDGRFM_MENU` - Master Data Governance for RFM: Menu (Only Menu)
- `/UGI4/MDGRFM_REQ` - Master Data Governance for RFM: Requester
- `/UGI4/MDGRFM_SPEC` - Master Data Governance for RFM: Specialist
- `/UGI4/MDGRFM_STEW` - Master Data Governance for RFM: Data Steward
- `/UGI4/MDGRFM_DISP` - Master Data Governance for RFM: Display

Ensure that you must have the following user roles assigned correctly in the **PFCG** transaction:

- `SAP_MDGA_MENU` – Master Data Governance: Analytics

This role contains authorizations for basic tasks relevant to the configuration and administration of SAP Master Data Governance (MDG) for all domains. Some authorizations allow critical activities. If you have multiple users involved in the configuration and administration of MDG content, Utopia recommends you to split this role into several new roles and assign each new role a subset of the authorizations for this role. Such an approach ensures users only complete tasks they are responsible for and reduces the risk of critical errors. Authorizations for the MDG transactions are not included in this role.

- `SAP_PAGEBUILDER_DISPLAY` role is required to use the Page Builder tool for accessing homepages created using Page Builder.

2.5. Web Dynpro Applications

Activating the required services.

Use transaction **SICF** to activate the services. For a detailed list of the relevant services, see [Services to be activated for Web Dynpro Applications](#) [External File].

Note:

For the security reasons, services delivered for Web Dynpro applications are in an inactive state. You must activate the required service. Once a service is activated, it cannot be reset to inactive state.

Refer to the Web Services for MDG-CO (for example **Custom Objects**) that need to be activated.

2.6. Number Ranges

Use transaction **SNRO** to ensure that the objects below have the listed number range values.

Object	Interval number	From Number	To Number
/UGI4/RT	01	000000000	999999999
DATLDLOGID (Only maintain if object exists in your system)	01	10000002	99999999

3. Configuration Process

This configuration process describes the minimum set of customizing steps and the recommended check activities to perform the following:

- Create article
- Change article
- Multiple-record processing

Run the settings for this process in Customizing under **► Cross-Application Components ► Processes and Tools for Enterprise Applications ► Master Data Governance ►**.

1. [Activating the Data Model AR](#)
2. [Activating Business Configuration Set](#)
3. [Verifying UI Modelling \[Optional\]](#)
4. [Navigating User Interface](#)
 - a. [Link Log. Actions with UI Application and Bus. Act.: Standard Definition](#)
 - b. [Link Logical Actions with Business Activity: Standard Definition](#)
5. [Setting Up Search](#)
6. [Verifying Data Quality and Search Settings](#)
7. [Configuring Change Request Settings](#)
8. [Configuring Variant Splitter](#)
9. [Deploying MDG RFM 9.0 when MDG RFM 8.0 exists in your system](#)
10. [Configuring Workflow Tasks](#)
11. [Setting Up the Rule-Based Workflow](#)
12. [Setting Up Data Replication](#)
13. [Setting up Analytics for MDG](#)
14. [Setting up Personal Object Work List \(POWL\)](#)
15. [Choose Location to run SAP Master Data Governance](#)
16. [Final Steps](#)

3.1. Activating the Data Model

1. Check (or enhance) and activate the AR data model.
 - a. Check whether you can use the data model delivered by SAP for managing your Article master data with MDG-RFM solution.

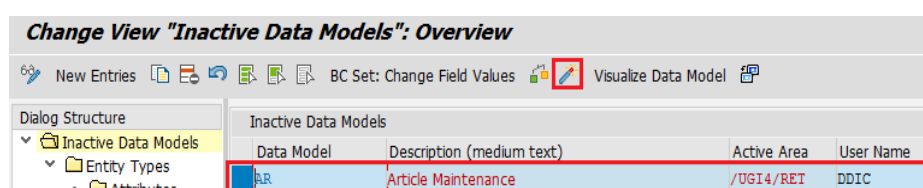
- b. Activate the delivered data model AR in *Customizing for Master Data Governance* under ► *General Settings* ► *Data Modelling* ► *Edit Data Model*.

Note:

You can select the governance scope at any point after you activate the Data Model. The governance scope determines which fields from the data model can be edited by the Master Data Governance application. Use this customizing activity to narrow the governance scope ► *Master Data Governance* ► *General Settings* ► *Process Modeling* ► *Define Governance Scope*.

By deactivating or reactivating an entity, a relationship, or an attribute you are not changing any dictionary or database object; you are only changing the ability of MDG to edit the chosen object. When you take a field out of governance scope it becomes read-only on the MDG UI and you can remove it, if you want.

Change View "Inactive Data Models": Overview



Data Model	Description (medium text)	Active Area	User Name
AR	Article Maintenance	/UGI4/RET	DDIC

2. Assigning an internal key.

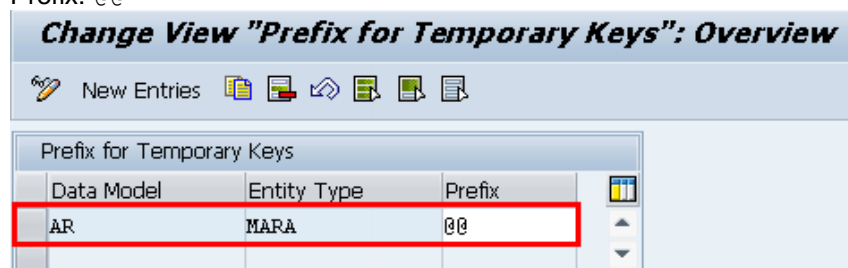
To support internal key assignment, run the activity in *Customizing for Master Data Governance* under ► *General Settings* ► *Data Modelling* ► *Define Prefixes for Internal Key Assignment*.

Note:

Mandatory: All temporary IDs must be prefixed with @@. Use the following values:

- Data Model: AR
- Entity Type: MARA
- Prefix: @@

Change View "Prefix for Temporary Keys": Overview



Data Model	Entity Type	Prefix
AR	MARA	@@

3.2. Activating Business Configuration Set

To enable the MDG-RFM pre-delivered content, some BC Sets need to be activated in the following sequence:

1. **MDGAF_BCV:** BCV Content for MDG Framework
 - Go to Transaction **SCPR20** and activate.

Business Configuration Sets: Activation

BC Set:

Short Text:

2. **/UGI4/MDG_RFM_900**: BC Set for MDG-RFM 900
 - Go to Transaction **SCPR20** and activate.

Business Configuration Sets: Activation

BC Set:

Short Text:

After the activation, you must set any existing User in the system as the owner of the Overview IDs of the delivered BCV.

Business Configuration Sets: Activation

Enter Variable Field Values

Field	Lang.	BC Set Conts	Val.
Owner		CS111405	<input type="text"/>

3. **/UGI4/MDG_RFM_BCV_900**: BCV Entries for MDG RFM **FMS** 900

Business Configuration Sets: Activation

BC Set:

Short Text:

4. **/UGI4/MDG_RFM_OTC_900**: Define Object Identifiers

Business Configuration Sets: Activation

BC Set: /UGI4/MDG_RFM_OTC_900

Short Text: Define Object Identifiers

5. /UGI4/MDG_RFM_DIF_900: RFM - Define Object Types for Data Transfer

Business Configuration Sets: Activation

BC Set: /UGI4/MDG_RFM_DIF_900

Short Text: RFM - Define Object Types for Data Transfer

6. /UGI4/MDG_RFM_VC_HDB_PP_FMAP_900: Join & Mapping Info For RFM

Business Configuration Sets: Activation

BC Set: /UGI4/MDG_RFM_VC_HDB_PP_FMAP_900

Short Text: Join & Mapping Info For RFM

7. /UGI4/MDG_RFM_VC_MDGHDB001_900: HANA Search view for RFM

Business Configuration Sets: Activation

BC Set: /UGI4/MDG_RFM_VC_MDGHDB001_900

Short Text: HANA Search view for RFM

8. /UGI8/MDG_RFM_IDOC_INB_PCODE_900: BC Set for MDG-RFM Inbound processing of IDocs

Business Configuration Sets: Activation	
BC Set	/UGI8/MDG_RFM_IDOC_INB_PCODE_900
Short Text	BC Set for MDG-RFM Inbound processing of IDocs

9. /UGI4/MDG_RFM_OTC_910: BC Set for MDG-RFM 9.0 SP01 Business Object Type Code

Business Configuration Sets: Activation	
BC Set	/UGI4/MDG_RFM_OTC_910
Short Text	Define Object Identifiers

10. /UGI8/MDG_RFM_IDOC_INB_PCODE_910: BC Set for MDG-RFM 9.0 SP01 Inbound processing of IDocs

Business Configuration Sets: Activation	
BC Set	/UGI8/MDG_RFM_IDOC_INB_PCODE_910
Short Text	BC Set for MDG-RFM 9.0 SP01 Inbound processing of IDocs

11. /UGI4/MDG_RFM_DIF_910: RFM - Define Object Types for Data Transfer 910

Business Configuration Sets: Activation	
BC Set	/UGI4/MDG_RFM_DIF_910
Short Text	RFM - Define Object Types for Data Transfer 910

Make sure that the 2 BC-Sets for the Inbound Process Codes are also processed in any SAP ECC-based target client and where the UGI8 software component is installed.

1. **/UGI8/MDG_RFM_IDOC_INB_PCODE_900** BC Set for MDG-RFM Inbound processing of IDocs
2. **/UGI8/MDG_RFM_IDOC_INB_PCODE_910** BC Set for MDG-RFM 9.0 SP01 Inbound processing of IDocs

3.3. Verifying User Interface (UI) Modeling [Optional]

This is an optional step only.

The User Interface (UI) configuration activities are relevant only if you want to change the UI or if the AR data model has been enhanced.





In this Customizing activity, you can specify if the system can hide the entity types for the data model AR, and where it can hide.

Verify the pre-delivered field properties for the data model AR in Customizing under ► *General Settings* ► *UI Modeling* ► *Manage UI Configurations*.

The Web Dynpro application and the application configuration in the **PFCG** role combine with settings made in Customizing to determine the UI displayed.

You need to verify the UI modeling for the following Web Dynpro application configurations:

Web Dynpro Application	Application Configuration	UI
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	/UGI4/_AR_MARA_OVP
USMD_SEARCH	/UGI4/_AR_SEARCH	/UGI4/_AR_SEARCH_OVP

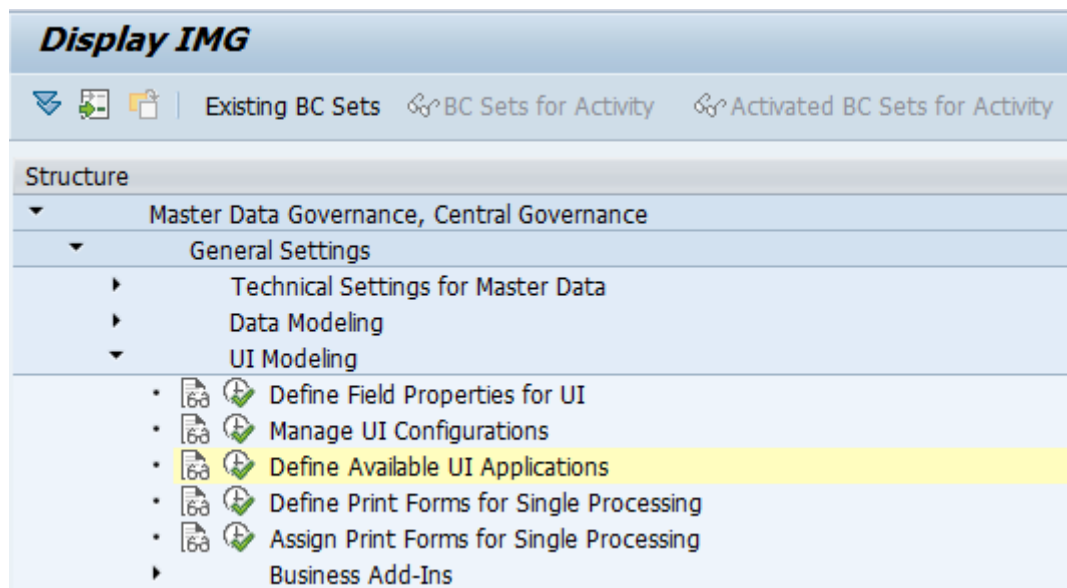
View: [Standard View] Print Version Export					
Data Model	Application	Application Configuration	UI Configuration	Communicator Status	Description
AR	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	/UGI4/_AR_MARA_OVP	 Details	Template Configuration for Generic MDG Single-Object UI
AR	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA_FMS	/UGI4/_AR_MARA_OVP_FMS	 Details	MDG-RFM for FMS Application
AR	USMD_SEARCH	/UGI4/_AR_SEARCH	/UGI4/_AR_SEARCH_OVP	 Details	MDG-RFM Search UI
AR	USMD_SEARCH	/UGI4/_AR_SEARCH_FMS	/UGI4/_AR_SEARCH_OVP_FMS	 Details	MDG-RFM Search UI for FMS

3.4. Navigating User Interface (UI)

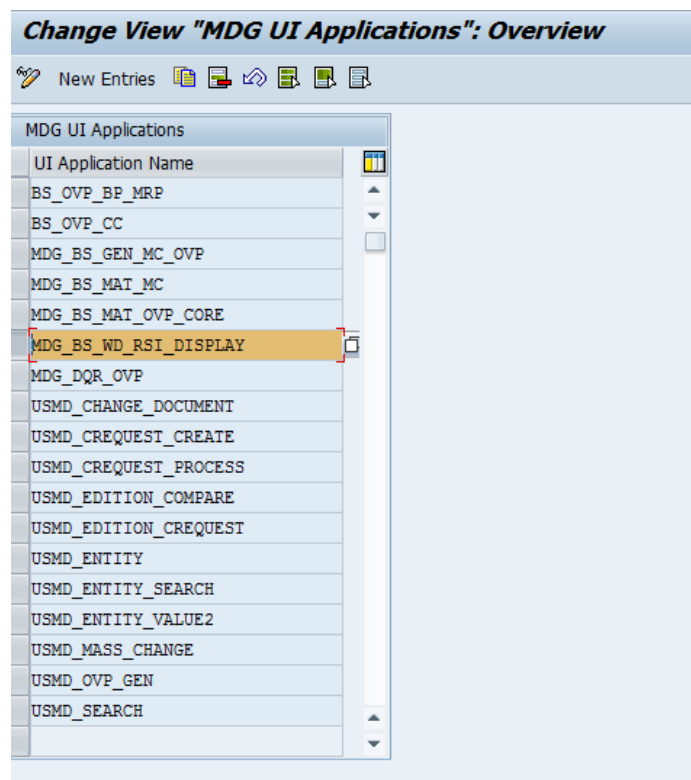
- Define Available UI Applications
- Link Log. Actions with UI Application and Bus. Act.: Standard Definition
- Link Logical Actions with Business Activity: Standard Definition

3.4.1. Define Available UI Applications

MDGIMG ► General Settings ► UI Modeling ► Define Available UI Applications.



Add a new entry for the application MDG_BS_WD_RSI_DISPLAY and save.



3.4.2. Link Log. Actions with UI Application and Bus. Act.: Standard Definition

The Logical actions shown in the following tables need to be entered manually.

For more information, see Customizing for Master Data Governance under ► *General Settings* ► *Process Modeling* ► *Business Activities* ► *Link Log. Actions with UI Application and Bus. Act. Standard Definition*►.

3.4.2.1. Table 1: RFM Objects Logical Actions UI Application and Bus Act. Linkage - Manual Entry Required

BO Type	Log. Action	Current UI Application Name	Current UI Configuration	Target UI Application	Target UI Configuration	Business Activity
DRF_0017	*	*	*	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	
DRF_0017	CHANGE	*	*	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR02
DRF_0017	CHANGE	USMD_CHANGE_DOCUMENT	USMD_CHANGE_DOCUMENT	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR02
DRF_0017	CHANGE	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR02
DRF_0017	CHANGE	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR02
DRF_0017	CHANGE	USMD_SEARCH	/UGI4/_AR_SEARCH	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR02
DRF_0017	CREATE	*	*	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR01
DRF_0017	CREATE	USMD_CHANGE_DOCUMENT	USMD_CHANGE_DOCUMENT	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR01
DRF_0017	CREATE	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR01
DRF_0017	CREATE	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR01
DRF_0017	CREATE	USMD_SEARCH	/UGI4/_AR_SEARCH	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR01
DRF_0017	DISPLAY	*	*	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR03
DRF_0017	LOAD	*	*	USMD_MASS_CHANGE	USMD_MASS_CHANGE	AR0B
DRF_0017	LOAD	MDG_BS_WD_RSI_DISPLAY	*	USMD_CREQUEST_PROCESS	USMD_CREQUEST_PROCESS	AR0B

BO Type	Log. Action	Current UI Application Name	Current UI Configuration	Target UI Application	Target UI Configuration	Business Activity
DRF_0017	LOAD	USMD_CREQUEST_PROCESS	USMD_CREQUEST_PROCESS	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0B
DRF_0017	LOAD	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0B
DRF_0017	LOAD	USMD_SEARCH	/UGI4/_AR_SEARCH	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0B
DRF_0017	MASS	*	*	USMD_MASS_CHANGE	USMD_MASS_CHANGE	AR0A
DRF_0017	MASS	MDG_BS_WD_RSI_DISPLAY	*	USMD_CREQUEST_PROCESS	USMD_CREQUEST_PROCESS	AR0A
DRF_0017	MASS	USMD_CREQUEST_PROCESS	USMD_CREQUEST_PROCESS	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0A
DRF_0017	MASS	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0A
DRF_0017	MASS	USMD_SEARCH	/UGI4/_AR_SEARCH	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0A

3.4.3. Link Logical Actions with Business Activity: Standard Definition

In this Customizing activity, you can display the standard settings for linking logical actions to business activities.

► *General Settings* ► *Process Modeling* ► *Business Activities* ► *Link Actions with UI Application and Bus. Act. Standard Definition*►.

For each UI application and action, you can assign a business activity. At runtime, you can then use the available change request types.

3.4.3.1. Table 1: Link Logical Actions with Business Activity: Standard Definition

UI Application Name	UI Configuration	Logical Action	Description	Business Activity	Description
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	CHANGE	Change	AR02	Article Master Change
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	CREATE	Create	AR01	Article Master Create
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	DISPLAY	Display	AR03	Article Master Display

UI Application Name	UI Configuration	Logical Action	Description	Business Activity	Description
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	LOAD	Data Exchange	AR0B	Article Master Load DIF
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	MASS	Mass Processing	AR0A	Article Master Mass Change
USMD_SEARCH	/UGI4/_AR_SEARCH	CHANGE	Change	AR02	Article Master Change
USMD_SEARCH	/UGI4/_AR_SEARCH	CREATE	Create	AR01	Article Master Create

3.5. Set Up Search

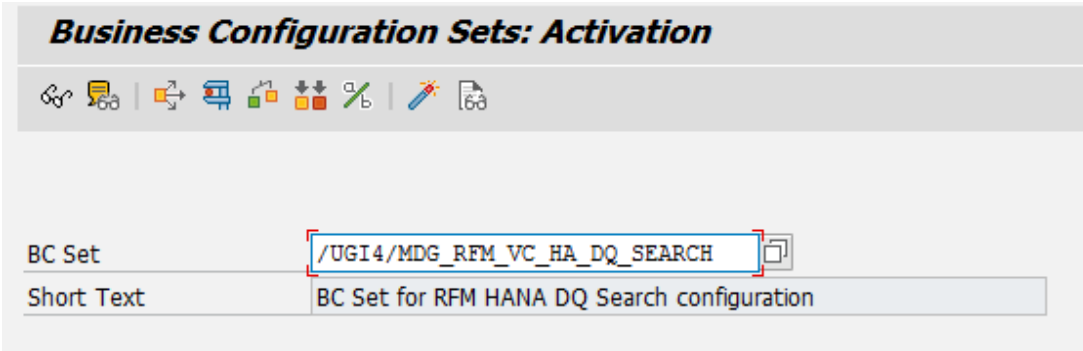
MDG-RFM 9.0 SP01 deployed on S/4 HANA 1610 SP01 offer HANA Search technologies as HDB is the primary data base.

MDG-RFM with HANA as primary database.

3.5.1. Activate Standard RFM HANA Search Templates

Follow below steps to activate the standard delivered RFM HANA Searches templates:

1. Activate BC Set: /UGI4/MDG_RFM_VC_HA_DQ_SEARCH












Business Configuration Sets: Activation

BC Set: /UGI4/MDG_RFM_VC_HA_DQ_SEARCH

Short Text: BC Set for RFM HANA DQ Search configuration

2. Long Text Table Creation and Initial Load: As the Long Text is used in the Search, first you must execute a report, and perform the initial load of this Texts the format of the HANA views.
 - a. In transaction **SA38**, execute the report MDG_HDB_MAT_MIGRATE_LONGTEXT as a background job.
 - b. Select the **Overwrite** target table records checkbox, to perform the initial load of Article long texts to the database table MDGHDB_LONGTEXT.
This loads the following long text types:
 - Basic Data Text
 - Sales Text
 - Purchase Order Text
 - Inspection Text
3. Active the **Search View**
 - a. To activate the already delivered in the product Hana Search View /UGI4/RFM_HA_SEARCH, navigate to **Master Data Governance > General Settings > Data Quality and Search > Search and Duplicate Check > Create Search View**

MDG Search View

Actions	Search View	Description	Business Object Type	Status	Created By	Created On
  	/UGI4/FMS_HA_SEARCH	FMS HANA Search	Article (Retail)	Generated	SSINGH	2016.12.26 C
 	/UGI4/RFM_HA_SEARCH	Article HANA Search	Article (Retail)	Saved-Not Generated	SSINGH	2017.01.02 C
 	MM1STTEST	MM1stTest	Material	Saved-Not Generated	GEHRKE	2014.07.03 C
 	ZMDG_RFM_HA_SEARCH	Article Hana Search	Article (Retail)	Saved-Not Generated	IGONZALEZ	2016.07.05 1

- b. Click **Edit** to activate the Hana Search View and provide the following details for the first guided step **Enter General Data**.

Field	Value
Search View	/UGI4/RFM_HA_SEARCH'

Description	Article HANA Search
Business Object Name	DRF_0017
HANA Package	ZMDG (Customer Namespace)

Edit Search View: Step 1 (Enter General Data)

< Previous Next > Edit Save Generate Cancel

1 Enter General Data 2 Select Entities and Attributes 3 Review and Generate

Search View : /UGI4/RFM_HA_SEARCH Description : Article HANA Search Business Object Type : Article (Retail)

General Data

* Search View: /UGI4/RFM_HA_SEARC
 * Description: Article HANA Search
 * Business Object Type: DRF_0017 Article (Retail)
 Hana Package: ZMDG
 Rule Set: ☐

IMPORTANT:

Choose the HANA package only from customer namespace and ensure that the package also exists in the ABAP Development environment. Currently this existence is not checked by the system.

Note:

You can activate the **Rule Set** if you want to adjust your Hana Search later in the HANA Studio. With this you can go attribute by attribute and give your choice of attribute characteristics like fuzziness and so on. The Rule set is for saving your manual changes in the HANA studio. Next time when you generate the view the manual changes are not overwritten.

- c. Click **Next** and continue with the next guided step **Select Entities and Attribute**.
Select the required entity and attribute at the Hana database. The system, by default selects few attributes and entity.
- d. Click **Next** to continue with the **Review and Generate** step.
Review the already selected (in the previous step) Entity and Attribute.
- e. Click **Save** twice.

Display Search View: Step 3 (Review and Generate)

☒ Search view saved successfully
☒ Data successfully locked in transport request

1 Enter General Data 2 Select Entities and Attributes **3 Review and Generate**

Search View : /UGI4/FMS_HA_SEARCH Description : FMS HANA Search Business Object Type : Article (Retail)

Review and Generate

Entities and Attributes

- AR - Article Maintenance
 - MARA - Article
 - Attributes
 - MARA - Article
 - ATTYP - Article Category
 - BEGRU - Authorization Group
 - MATKL - Merchandise Category
 - MTART - Article Type
 - TXMFI - Description (medium text)
 - ADDITIONA - Additional
 - Attributes
 - ADDIFM - Proc. for additional
 - ADDIINVOC - Bill-to party

f. Click **Generate** in Review and Generate window.

Display Search View: Step 3 (Review and Generate)

☒ Search view generated successfully

1 Enter General Data 2 Select Entities and Attributes **3 Review and Generate**

Search View : /UGI4/FMS_HA_SEARCH Description : FMS HANA Search Business Object Type : Article (Retail)

Review and Generate

Entities and Attributes

- AR - Article Maintenance
 - MARA - Article
 - Attributes
 - MARA - Article
 - ATTYP - Article Category
 - BEGRU - Authorization Group
 - MATKL - Merchandise Category
 - MTART - Article Type

Note:

MDG-RFM 9.0 delivers a set of SAP HANA Search templates segregated in different Article functionalities and processes. These Search types are optional to activate and generate depending on your Data Model needs.

For generating each view, perform the same steps of the SAP HANA Main View activation and generation explained in this chapter

MDG Search View				
<div> <div>New</div> <div>Check</div> </div>				
Actions	Search View	Description	Business Object Type	Status
	/UGI4/FMS_HA_SEARCH	Article HANA Search (FMS)	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH	Article HANA Search	Article (Retail)	Saved-Not Generated
	/UGI4/RFM_HA_SEARCH_ADDITIONAL	Article HANA Search - Additional	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH_BOM	Article HANA Search - BOM Components	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH_HIERARCHY	Article HANA Search - Article Hierarchy	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH_LIST_POS	Article HANA Search - Listing & POS	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH_PIR	Article HANA Search - PIR	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH_SEASONS	Article HANA Search - Seasons	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH_SUBSTIT	Article HANA Search - Substitutions	Article (Retail)	Generated
	/UGI4/RFM_HA_SEARCH_TEXTILE	Article HANA Search - Textile Components	Article (Retail)	Generated

The system displays the HANA search UI as displayed below.

Search: Article

Search Criteria

Search Term:

Article

Article Type

Article Category

Merchandise Category

Description (medium text)

contains

contains

contains

contains

is

Search Method:

Article HANA Search

0011

Article HANA Search

Article HANA Search - Additional

Article HANA Search - Article Hierarchy

Article HANA Search - BOM Components

Article HANA Search - Listing & POS

Article HANA Search - PIR

Article HANA Search - Seasons

Article HANA Search - Substitutions

Article HANA Search - Textile Components

Search

Clear Entries

Reset to Default

Maximum Number of Results:

100

Save Search As:

3.5.2. Check Existing BADI Implementations

With HANA as primary database you are able to enhance your searches with means of the HANA studio. There may be use cases where you still want to leverage the capabilities of the search related Badls.

You can find those and the related usage description via the customizing path

► Master Data Governance ► General Settings ► Data Quality and Search ► Business Add-Ins

Note:

If you upgrade from a previous release and especially leveraging TREX / Enterprise search, make sure you disable the old BADls for MDG-RFM and eventually for MDG-M:

/UGI4/ENH_SEARCH_REUSE	Implementation: Search for Data in Reuse Active Area
MDG_BS_MAT_PP_SEARCH	Search Material Primary Persistence Data

Furthermore, you need to check if the old search object connector template had been removed:

► Master Data Governance ► General Settings ► Data Quality and Search ► Search and Duplicate Check ► Assign Search Object Connector Templates to Object Types

Remove any entry for the Business Object Type DRF_0017 MDG_Article!

3.6. Verify Data Quality, Search Settings and Duplicate Check


Use the following steps for HABA Search verification and HA Duplicate Check Configuration:







3.6.1. HANA Search Verification and HA Duplicate Check Configuration

Use the following steps to configure duplicate check for HANA search:

1. In the Delivered Standard, HANA Search Setting, you can verify the following.
 - a. Existence of entry HA and Freeform settings are activated if this feature is planned to be used.

Change View "Define Search Application": Overview

 New Entries



Dialog Structure

Define Search Application

Allocation of Search

Allocation of enti

Allocation of entities

Match Profile

Relevant Fields

Define Search Application

Srch Mode	Access Class	Freeform	Fuzzy	Complex Selection	Description (medium text)
AD	CL_MDG_BS_ADR_SEARCH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Address Search (Fuzzy)
DB	CL_USMD_SEARCH_DATA_DB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Database Search
ES	CL_SDQ_USMD_SEARCH_DATA_IMPL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enterprise Search
HA	CL_MDG_HDB_SEARCH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HANA Search
RK	CL_SDQ_USMD_REMOTE_KEY_SEARCH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Remote Client Key Search

Change View "Define Search Application": Overview

New Entries

Dialog Structure

Define Search Application

Allocation of Search

Allocation of entities

Allocation of entities

Match Profile

Relevant Fields

Define Search Application

Srch Mode	Access Class	Freeform	Fuzzy	Complex Selection	Description (medium text)
AA	CL_MDG_BS_ADR_SEARCH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DB	CL_USMD_SEARCH_DATA_DB	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ES	CL_SDQ_USMD_SEARCH_DATA_IMPL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Enterprise Search
HA	CL_MDG_HDB_SEARCH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HANA Search

Note:

This entry cannot be removed or deactivated (**E-class** entry delivered by SAP). You can verify these settings in Customizing by navigating to **Master Data Governance > General Settings > Data Quality and Search > Search and Duplicate Check > Define Search Application**.

- b. Search help '/UGI4/RFM_HA_SEARCH' allocation to Search Application for Hana Search.
You can Verify these setting in Customizing by navigating to **Master Data Governance > General Settings > Data Quality and Search > Search and Duplicate Check > Define Search Application > Allocation of Search help to Search Application**.

Change View "Allocation of Search Help to Search Applications": Overview

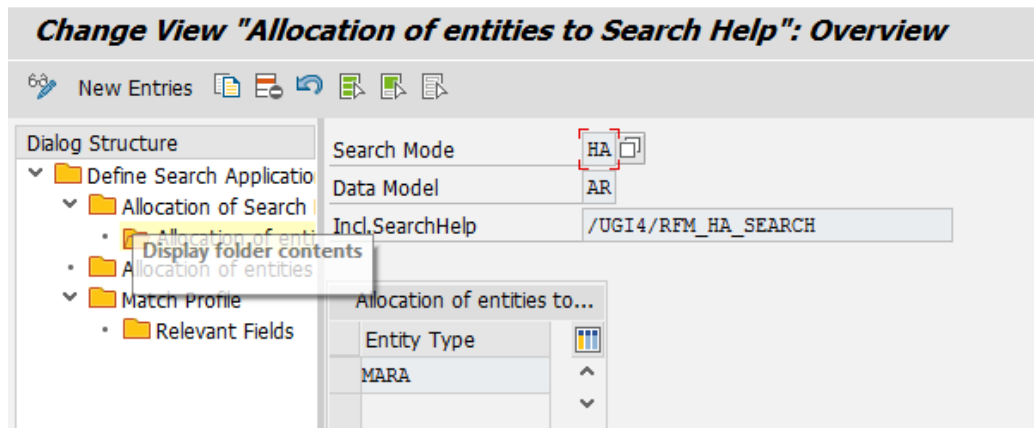
New Entries

Allocation of Search Help to Search Applications			
Data Model	Included search help	Description (medium text)	Rule Set Name
AR	/UGI4/FMS_HA_SEARCH	FMS HANA Search	
AR	/UGI4/RFM_HA_SEARCH	Article HANA Search	
AR	ZMDG_RFM_HA_SEARCH	Article Hana Search	
MM	MM1STEST	MM1stTest	

- c. As part of Standard, Main Entity is allocated to the Search help, Follow the below Mentioned Screen shot for verifying the same.

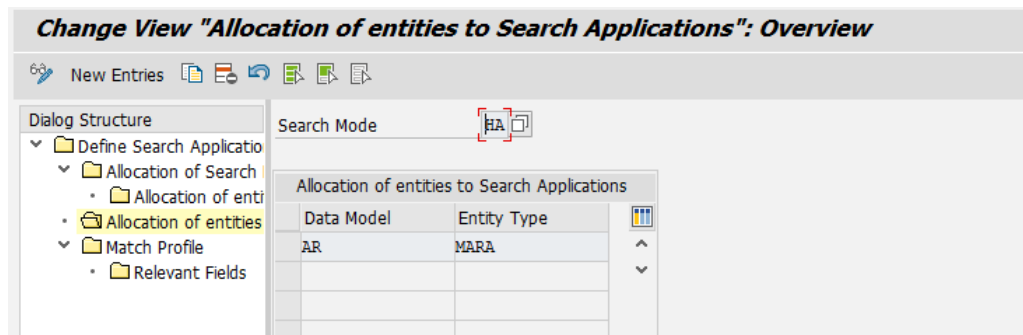
Field	Description
Search mode	HA
Data Model	AR

Incl. SearchHelp	/UGI4/RFM_HA_SEARCH
Entity type	MARA



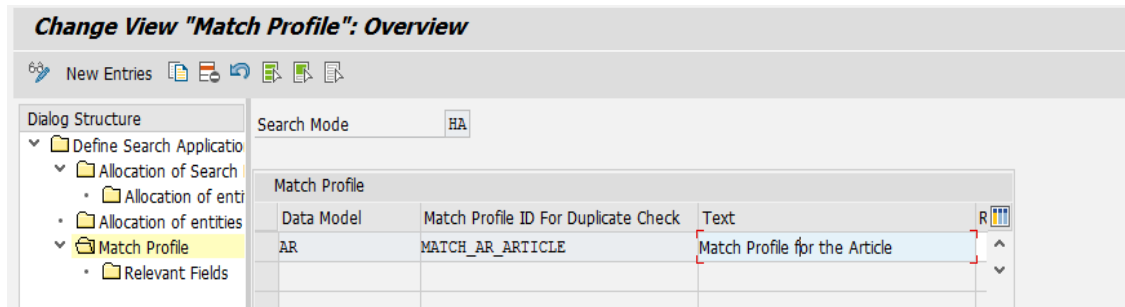
- d. As part of Standard Main Entity is allocated to the Search Application, Follow the below given table and screenshot for verifying the same.

Field	Description
Search mode	HA
Data Model	AR
Entity Type	MARA



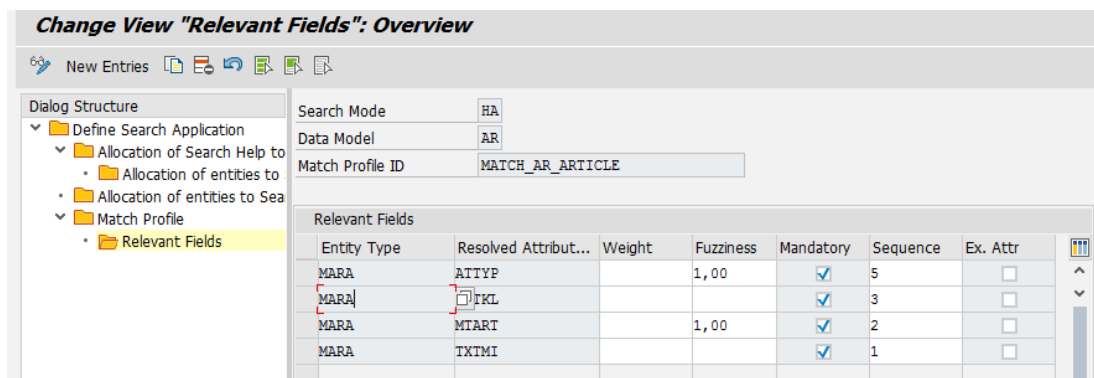
2. Configure the Duplicate Check for HANA search

- Select the Search Mode 'HA' by Navigating to **Master Data Governance > General Settings > Data Quality and Search > Search and Duplicate Check > Define Search Application**
- Select the Search mode 'HA' and click the **Match Profile**








- c. If you want to run a duplicate check, assign the pre-delivered match profile `MATCH_AR_ARTICLE` or your own match profile to the data model `AR` and the `MARA` entity type. Navigate to **General Settings > Data Quality and Search > Search and Duplicate Check > Match Profile**.
- d. Duplicate Check relevant fields are added as per the standard delivery. Follow the below given table and screenshot for verifying the same.

Field	Value
Search mode	HA
Data Model	AR
Match Profile Id	MATCH_AR_ARTICLE
Entity type	MARA
Attribute(Fuzziness)	ATTYP (1,00) , MATKL , MTART (1,00) , TXTMI



3. For activating the Duplicate Check in RFM done with HANA Search provider do the following: Navigate to **General Settings > Data Quality and Search > Search and Duplicate Check > Configure Duplicate Check for Entity Types**.

Field	Value
Data Model	AR
Entity type	MARA
Search Mode	HA
Low Thres	60 (Any)
High Thres	85 (Any)
Match Profile ID for Duplicate Check	MATCH_AR_ARTICLE
Include search help	/UGI4/RFM_HA_SEARCH
MPbased UI	To be checked [X]

Change View "Maintenance View for Duplicate Check Mode of Data Model"						
 New Entries    						
Maintenance View for Duplicate Check Mode of Data Model						
Data Model	Entity Type	Low Thres	High Thres	Match Profile ID For Duplicate Ch...	included search help	MPbased UI
AR	MARA	60,0	85,0	MATCH_AR_ARTICLE	/UGI4/RFM_HA_SEARCH	<input checked="" type="checkbox"/>

3.7. Configuration Change Request Settings

Text Depending on your requirements you might want to adjust and enhance the default change request values.

The following information describes the minimal settings for a basic governance process. For more information about each customizing activity, see the relevant documentation for that customizing activity.

1. Review and/or define which statuses the change requests can have, and which processing options are enabled for those statuses. Optionally, you can add new statuses to be used in the change request types.

For more information, see Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Change Requests* ► *Edit Statuses of Change Requests*...

The following statuses are delivered for the SAP standard processes.

Status Value	Description	Permitted Processing
00	To Be Evaluated	Change of Object List
01	To Be Considered and Approved	Change of Object List
02	Changes to Be Executed	Execution of Changes
03	To Be Revised	Change of Object List
04	Final Check to Be Performed	No Processing
05	Final Check Approved	No Processing
06	Final Check Rejected	No Processing
07	Activation Failed	No Processing
08	Approved; to Be Replicated	No Processing
09	Dependent Data to Be Processed/Approved	Execution of Changes
10	To Revise: Perform Changes	Execution of Changes
11	Process Errors After Activation	Execution of Changes
12	Approved, Contact Person to be Processed	No Processing
99	No Status Set	No Processing

2. Check that the following business activities are in your system and that they are assigned to the default data model *AR*.
 - AR01 Article Master Create
 - AR02 Article Master Change
 - AR03 Article Master Display

- AR0A Article Master Mass Change
- AR0B Article Master Load (DIF)

For more information, see Customizing for Master Data Governance under [General Settings](#) [Process Modeling](#) [Business Activities](#) [Create Business Activity](#).

3. Create new change request types for data model *AR*, or validate after import MDG for RFM.

For more information, see Customizing for Master Data Governance under [General Settings](#) [Process Modeling](#) [Change Requests](#) [Create Change Request](#).

The following table shows the change request types for data model *AR*. Only the relevant columns are included.

Change Request Type	Data Model	Description	Single Object	Main Entity Type	Workflow
AR01	AR	Article Create	Yes	MARA	WS60800086
AR02	AR	Article Change	Yes	MARA	WS60800086
AR0A	AR	Article Mass Change		MARA	WS60800086
AR0B	AR	Article Load (DIF)		MARA	WS60800086

The standard workflow template used by Master Data Governance for article is *WS60800086*. This template is a rule-based workflow which uses **BRF+** decision tables.

There is also a workflow template without BRF+, which covers the same processes. If you want to use this template, replace template **WS60800086** with template **WS46000057** in the relevant Change Request type.

The following settings should exist in the substructures of the change request types:

- **AR01**
 - Entity type: *MARA*
 - UI Configuration ID:
 - Msg. output: **Standard**
 - Business Activity: Article Master Create (AR01)
 - Service Level Agreement for Change Request Types: <leave empty>
- **AR02**
 - Entity type: *MARA*
 - UI Configuration ID:
 - Msg. output: **Standard**
 - Business Activity: Article Master Change (AR02)
 - Service Level Agreement for Change Request Types: <leave empty>
- **AR0A**
 - Entity type: *MARA*
 - UI Configuration ID:
 - Msg. output: *W Issue Error Messages as Warnings*
 - Business Activity: Article Master Mass Change (AR0A)
 - Service Level Agreement for Change Request Types: <leave empty>
- **AR0B**
 - Entity type: *MARA*
 - UI Configuration ID:

- Msg. output: **W Issue Error Messages as Warnings**
- Business Activity: Article Master Load DIF (AR0B)
- Service Level Agreement for Change Request Types: <leave empty>

Optional

Optionally, you can define priorities, reasons, or rejection reasons for change requests. You can enter codes and a short description to tag or classify your change requests. These codes can be used later for change request analytics (process quality analysis). They also can be used to influence the workflow-driven processes. For example, depending on the priority of a change request, you can mark it for special processing.

Perform the following activity in Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Change Requests* ► *Define Priorities / Reasons / Rejection Reasons for Change Requests*►.

Optional

you can define print forms for change requests. By default, the form **USMD_EDITION_CREQUEST** is used. This is relevant only if your own or multiple print forms are required.

For more information, see Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Change Requests* ► *Define Print Form for Change Requests*►. text

3.8. Configuring Variant Splitter

Variant configuration is to display the combination of characteristics in variants.




For example: Black-XS, White-L.

After the installation of PAT file, activate the SICF service: WDA_MDG_RFM_CFG

Note:

All the CRs should be activated and there should not be any staging data while maintaining the Splitter by the transaction /UGI4/MDG_RFM_CFG

1. After the installation of PAT file, activate the SICF service: WDA_MDG_RFM_CFG
 - a. Activation Path: *SICF -> Services -> SAP-> BC-> Webdynpro-> UGI4 -> WDA_MDG_RFM_CFG*
 - i. Right click, select “**Activate Service**”
 - ii. In the popup, select “**Yes to all**”.

Create Host/Service  External Aliases  System Monitor Active 

Filter Details

Virtual Host: Service Path:

ServiceName:

Description:

Lang.: Ref.Service:

Virtual Hosts / Services	Documentation	Reference Service
default_host	VIRTUAL DEFAULT HOST	
sap	SAP NAMESPACE; SAP IS OBLIGED NOT T...	
bc	BASIS TREE (BASIS FUNCTIONS)	
webdynpro	Web Dynpro (WD) Runtime	
ugi4	Namespace	
WDA_MDG_RFM_CFG	Configure MDG RFM Characteristic Render ...	

- Maintained the Splitter by using the transaction code `/UGI4/MDG_RFM_CFG`.

Configuration for MDG RFM Application

Configuration for MDG RFM Application


No Messages


Define Variant Characteristic Render Splitter

Characteristic Render splitter:

Variant Count:

- When no splitter maintained, below error shall be populated on the MDG screens.


 **Characteristic splitter is not maintained - Display Help**

 **The generic article @@9805 will be created with its variants**

[Display Message Log](#)

- When the staging data is not cleared or activated, below error shall be populated on activation of splitter by the transaction code `/UGI4/MDG_RFM_CFG`.

Configuration for MDG RFM Application

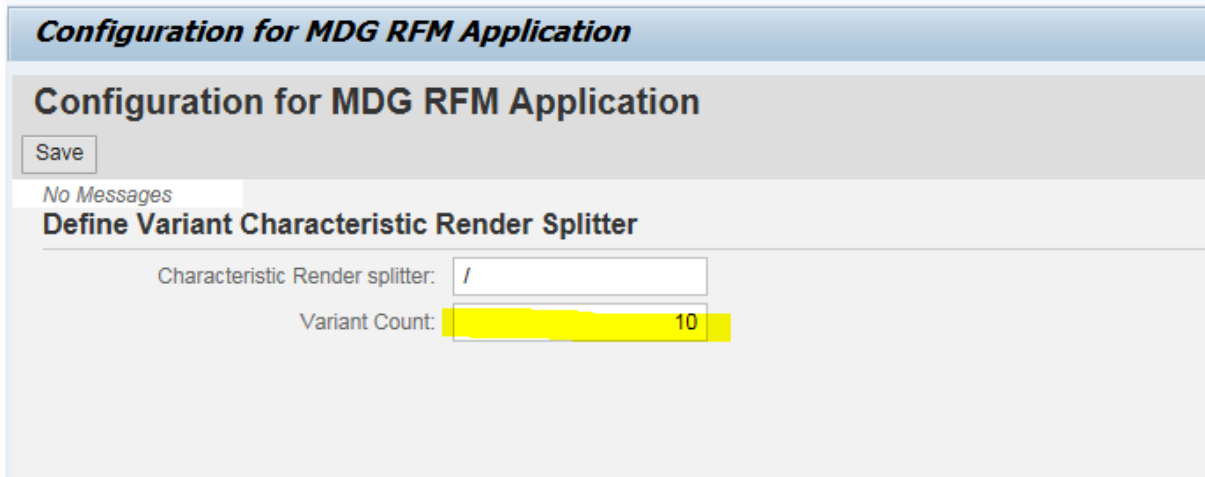
 **Change Requests exists for Variants.Splitter Change not possible.**

Define Variant Characteristic Render Splitter

Characteristic Render splitter:

3.9. Configuring Variant Count for IDOC

- a. Maintain the IDOC variant count by using the transaction code “/UGI4/MDG_RFM_CFG”. This count is to specify how many variant articles need to be sent in one IDOC if the generic article is outbound via DRF. This is an optional step as if no count is maintained, all the variant articles of the generic article will be sent in the same IDOC to the target system



Configuration for MDG RFM Application

Save

No Messages

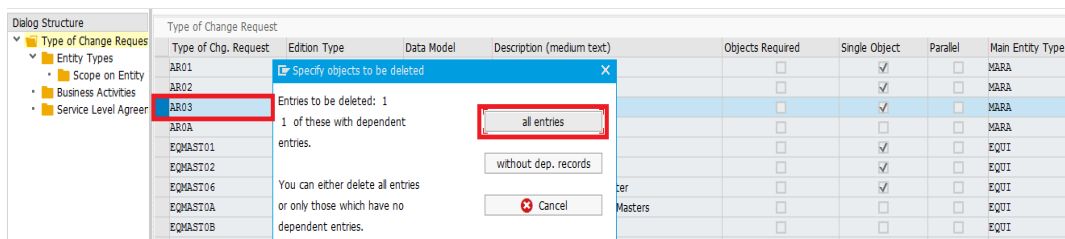
Define Variant Characteristic Render Splitter

Characteristic Render splitter: /

Variant Count: 10

3.10. Deploying MDG RFM 9.0 when MDG RFM 8.0 is already present

- b. Make sure before deploying the new add-on (MDGRFM900), no CRs related to AR Data Model exist. If you have any open Article CRs you will lose Staging Data in your current CRs.
- c. After MDGRFM900 is deployed, proceed to delete **CRTYPE AR03** under customizing *MDGIMG->General Settings->Process Modelling->Change Requests->Create Change Request Type*:
 - i. Select AR03
 - ii. Click **Delete** button,
 - iii. Select **All Entries** (which deletes all dependent entries too).



Type of Chg. Request	Edition Type	Data Model	Description (medium text)	Objects Required	Single Object	Parallel	Main Entity Type
AR01				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MARA
AR02				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MARA
AR03				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MARA
AR0A				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	MARA
EQMAST01				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EQUI
EQMAST02				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EQUI
EQMAST06				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EQUI
EQMAST0A				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EQUI
EQMAST0B				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EQUI

- d. After Activating the Data Model, proceed to adjust staging data with the new data model.

Change View "Inactive Data Models": Overview

Dialog Structure

- Inactive Data Models
 - Entity Types
 - Attributes
 - Business Object
 - Entity Types for
 - Hierarchy Att

Inactive Data Models

Data Model	Description (medium text)	ActiveArea	Prefix/Namespace	Package	User Name	Changed on	Time	Active Version
OF	Chart of Accounts				SAP	26.02.2015	11:00:34	Same
AR	Article Maintenance	/UG14/BET			DDIC	15.07.2016	01:19:23	Same

Possible loss of data

Was the mapping between the reuse active area and the data model adjusted?

Yes No Cancel

3.11. Configuring Workflow Tasks

Before configuring the workflow tasks, ensure that your system environment meets the following.

- Necessary general settings for workflows are defined.
- The organizational plan is defined in Customizing for SAP NetWeaver under ► *Application Server* ► *Business Management* ► *SAP Business Workflow*.
- The active type linkages for Article (BUS2250) are set correctly.
- Follow the instructions in Customizing for MDG under ► *General Settings* ► *Process Modeling* ► *Workflow* ► *Activate Type Linkage*.
- For object type BUS2250 check that the **Type Linkage Active** indicator is active for the events CREATED, ACTIVATED, and ROLLED_BACK.
- In addition, check that the Enable Event Queue indicator is active for the events ACTIVATED, and ROLLED_BACK, but not for the event CREATED.

Change View "Event Type Linkages": Overview

Event Type Linkages

Object Category	Obj. Type	Event	Receiver Type	Type link...	Enable ev...	Status
BOR Object Type	BUS2250	ACTIVATED	ACTIVATED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No errors
BOR Object Type	BUS2250	ACTIVATED	ACTIVATED_ACS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No errors
BOR Object Type	BUS2250	CREATED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	No errors
BOR Object Type	BUS2250	ROLLED_BACK	ROLLED_BACK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No errors
BOR Object Type	BUS2250	ROLLED_BACK	ROLLED_BACK_ACS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No errors

Note:

The standard workflow template used by Master Data Governance for article is WS60800086.

To ensure the general assignment of processors using the rule-based workflow, run the following activity in Customizing for Master Data Governance under ► *General Settings* ► *Process Modeling* ► *Workflow* ► *Configure Workflow Tasks*.

- Go to application component CA-MDG-AF and choose **Assign Agents**.
- Set the **Dialog Processing** (TS 60807954) task as a **General Task**, if it not already set. To do so, select the task, choose **Attributes** and change it to **General Task**.

Tasks of an Application Component: Assign Agents		
Attributes... Org. assignment		
Name	ID	General or Background Task
Application Framework	FA CA-MDG-AF	
Process Change Request	TS 54307931	General Task
Get Change Request	TS 60807944	Background task
Path and Processor	TS 60807945	Background task
Check it is single agent	TS 60807946	Background task
Get Process Pattern	TS 60807947	Background task
Set Completion Time	TS 60807948	Background task
Synch. System Method	TS 60807949	Background task
Get Change Request	TS 60807950	Background task
Default Handler	TS 60807951	Background task
Parallel Step Result Method	TS 60807952	Background task
Get Agent Group	TS 60807953	Background task
Dialog Processing	TS 60807954	General Task
Get Parallel Change Request	TS 60807955	Background task
Get Recipients of Export	TS 60807956	Background task
Assign Action Code	TS 60807957	Background task
Clear Step-Action Task	TS 60807958	Background task

Alternative procedure using the generic workflow maintenance transaction:

1. Run transaction **SWDD**
2. In the **Workflow** field, enter the workflow template **WS60800086**, the highest version is automatically chosen.
3. In the **Navigation** area go to step **000073 Dialog Processing** and select it.
4. In the **Task Properties** area, choose **Agent Assignment for Task**. Choose the **Agent Assignment for Task** button.
5. On the next screen select **Dialog Processing** and choose the **Attributes** button.
6. In the **Task** popup select **General Task** and choose **Transfer**.
7. Return to the **Task Properties** list and verify that the status icon beside **Agent Assignment** is green or yellow.

3.12. Setting Up Rule-Based Workflow

MDG-RFM uses advanced workflow capabilities by combining the SAP Business Workflow with the SAP Business Rule Framework plus (**BRF plus**) tool. This section describes how to activate and load the necessary settings for BRF plus.

Check that the steps for Rule-Based Workflow are correctly imported by running the following activity in Customizing: **General Settings > Process Modeling > Workflow > Rule-based Workflow > Define Change Request Steps for Rule-Based Workflow**.

The following are the default steps required for all change request types:

Workflow Step Numbers					
Type of Chg. Request	CR Step	Keys	Validation	Description (medium text)	
AR01	0	<input type="checkbox"/>	<input type="checkbox"/>	Processing	
AR01	80	<input type="checkbox"/>	<input type="checkbox"/>	Approver	
AR01	90	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Final Check	
AR01	91	<input type="checkbox"/>	<input type="checkbox"/>	Activation	
AR01	92	<input type="checkbox"/>	<input type="checkbox"/>	Revision	
AR01	93	<input type="checkbox"/>	<input type="checkbox"/>	Validation	
AR01	95	<input type="checkbox"/>	<input type="checkbox"/>	Revision Processing	
AR01	99	<input type="checkbox"/>	<input type="checkbox"/>	Complete	

Change Request Type	Change Request Step	Keys	Successful Validation Required	Description
---------------------	---------------------	------	--------------------------------	-------------

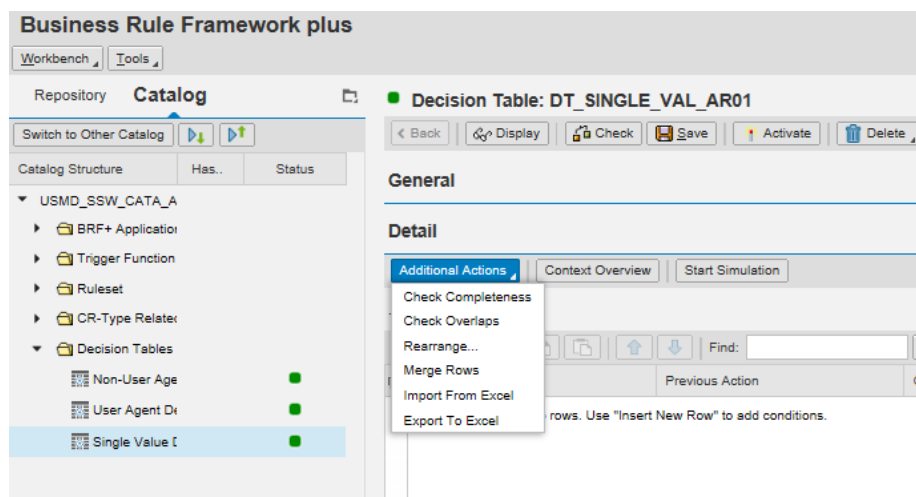
AR01	0	Empty	Empty	Processing
AR01	80	Empty	Empty	Approver
AR01	90	Empty	Checked	Final Check
AR01	91	Empty	Empty	Activation
AR01	92	Empty	Empty	Revision/Cancel BG
AR01	93	Empty	Empty	Validation
AR01	95	Empty	Empty	Revision Processing
AR01	99	Empty	Empty	Complete

Due to technical restrictions, further settings cannot be included in the BC-sets. Perform the following checks and take action as required:

Run the following activity in Customizing: ► *General Settings* ► *Process Modeling* ► *Workflow* ► *Rule-based Workflow* ► *Configure Rule-Based Workflow*.

Alternatively, you can run transaction USMD_SSW_RULE.

1. Select **Change Request AR01**.
2. From the left pane, expand Decision Table, select the Single Value Decision Table, click **Edit**.
 - a. From the displayed Additional Actions list, click **Import from Excel**.



The system displays **Export File Import** popup.

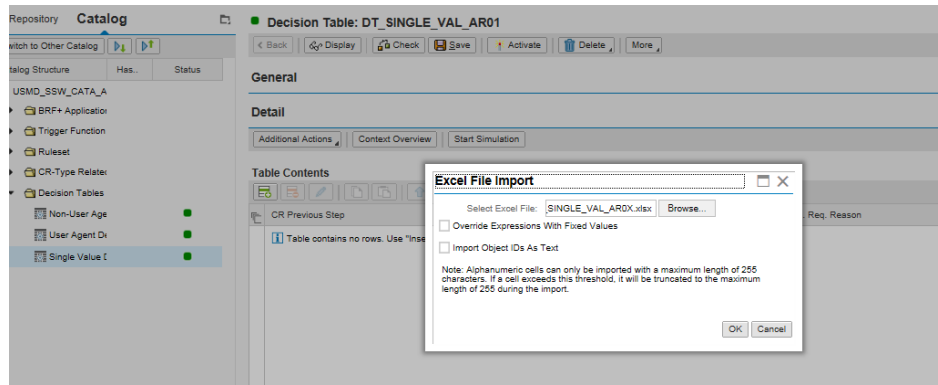
- i. Click Browse, upload below file DT_SINGLE_VAL_AR01 and click OK.



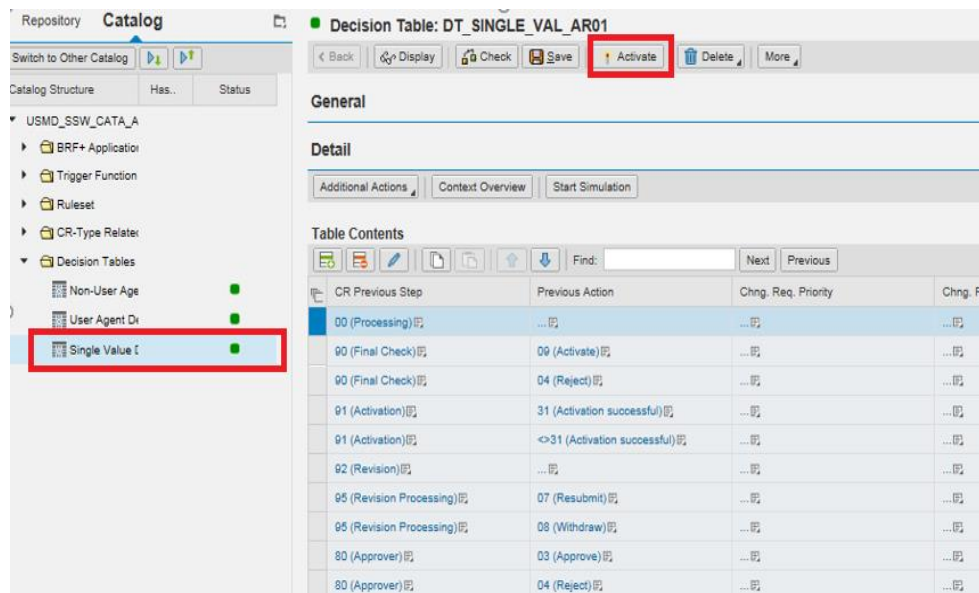
DT_SINGLE_VAL_AR
01.xlsx

Note:

Do not change this file manually, upload the file as it is, and after the upload you can change data in your table.



ii. Activate the Table:



3. From the left pane, select the User Agent Decision Table

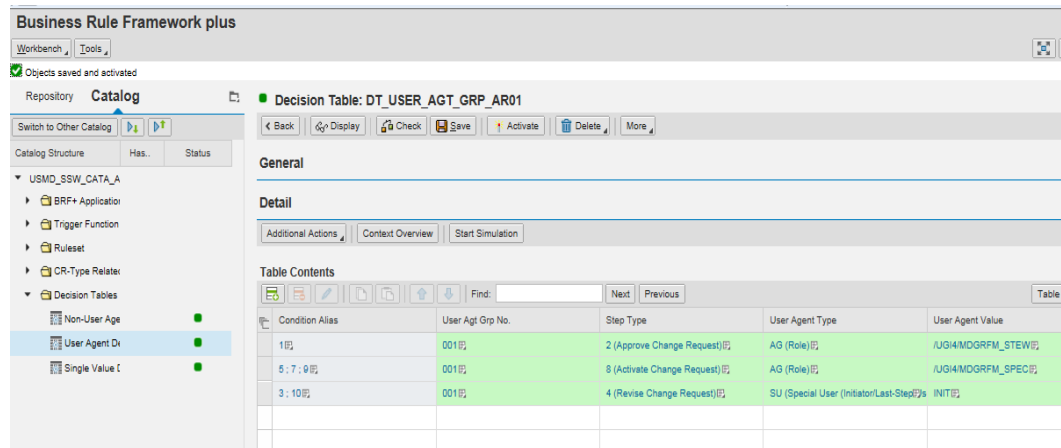
- a. Click **Edit**, then in Additional Actions and click **Import from Excel** and activate the Table.
- b. Upload below excel File DT_USER_AGT_GRP_AR01 and click OK.



DT_USER_AGT_GRP_
AR01.xlsx

Note:

Do not change this file manually, and upload the file as it is. After uploading the file, you can change data in your Table.



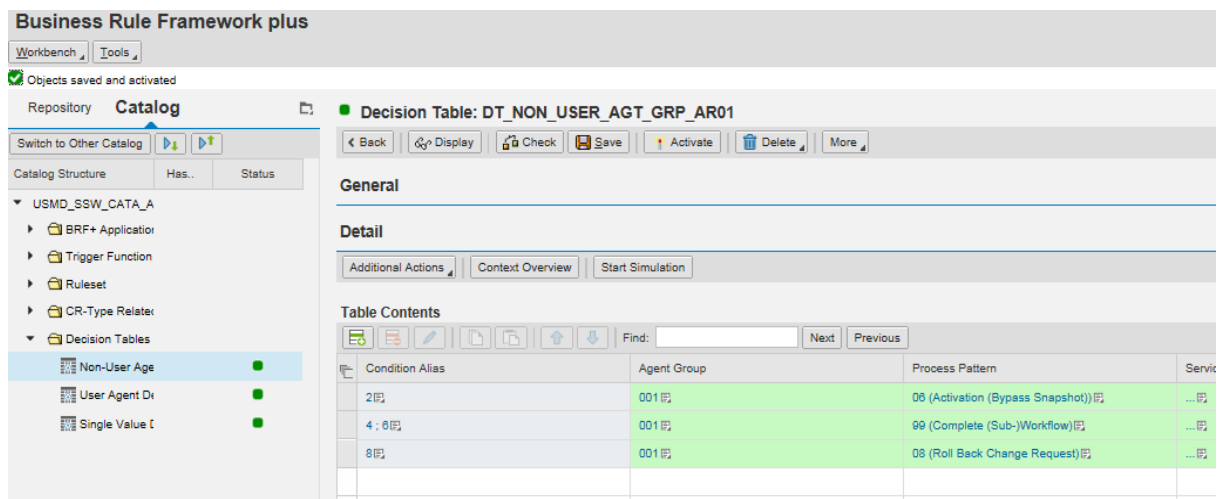
4. From the left pane, select the User Agent Decision Table
 - a. Click **Edit**, then in Additional Actions and click **Import from Excel** and activate the Table.
 - b. Upload Excel File DT_NON_USER_AGT_GRP_AR01 and click OK.



DT_NON_USER_AGT_GRP_AR01.xlsx

Note:

Do not change this file manually, and upload the file as it is. After uploading the file, you can change data in your Table.



5. Repeat these steps for all relevant change request types AR02 and AR0A. Maintain your content in the decision tables, reflecting your governance process. You can use the pre-delivered SAP content as a starting point.

Note:

If you extend the **BRF plus** decision tables, make sure that the status of the final step is set to **05 Final Check Approved** or **06 Final Check Rejected**.

The following are the minimal settings for the relevant change request types.

- DT_SINGLE_VAL_AR01
- DT_NON_USER_AGT_GRP_AR01
- DT_USER_AGT_GRP_AR01

DT_NON_USER_AGT_GRP_AR01 and DT_SINGLE_VAL_AR01 contain the automated steps and follow-up logic used by the **BRF plus**. The follow-up logic can result in an automated step or in a user task that will be visible as a workflow.

Users involved in the Master Data Governance (MDG) process need to be included in table DT_USER_AGT_GRP_AR01. This action enables the users to receive and execute the workflow tasks. Maintain agents (for example the users or organizations in the Portal Content and Portal Role Assignment sections of this guide) for all change request types and their associated workflow steps. Each condition alias that appears in the DT_SINGLE_VAL_AR01 table needs at least one processor, automatic or user (group). For all non-automated steps, at least one entry needs to exist in DT_USER_AGT_GRP_AR01.

Conduct this maintenance for all relevant change request types. Further details on the workflow concepts can be found [here](#) [External]. The following change request types appear in the standard delivery: AR01, AR02 and AR0A.

The following step types are pre-delivered by SAP:

Step Type	Short Description	Actions
1	Check Change Request	01 Agree; 02 Disagree
2	Approve Change Request	03 Approve; 04 Reject
3	Process Change Request	05 Finalize Processing; 06 Send for Revision
4	Revise Change Request	07 Resubmit; 08 Withdraw
5	Activate Change Request	09 Activate; 10 Send for Revision
6	Approve Change Request (Without Rejection)	03 Approve; 06 Send for Revision
7	Revise Change Request (Without Rejection)	05 Finalize Processing
8	Activate Change Request	09 Activate; 04 Reject

The following agent types exist:

User Type Agent	Short Description
US	User
O	Organizational Unit
C	Job
S	Position
AG	Role
SU	Special User (Value for requestor: INIT. Value for previous-step user: LAST.)

The following is the standard content pre-delivered by SAP MDG-RFM:

DT_SINGLE_VAL_AR01/2/A

Previous Step	Previous Action	Condition Alias	New Step	New Change Request Status
---------------	-----------------	-----------------	----------	---------------------------

00 (Create Change Request)	No value	1	80 (Approver)	02 (Changes to be executed)
90 (Final Check)	09 (Activate)	2	91 (Final Approval)	02 (Changes to be executed)
90 (Final Check)	04 (Reject)	3	95 (Revision Processing)	10 (To Revise: Perform Changes)
91 (Final Approval)	31 (Activation Successful)	4	99 (Complete)	05 (Final Check Approved)
91 (Final Approval)	<>31 (Activation Successful)	5	90 (Final Check)	11 (Process Errors After Activation)
92 (Revision/Cancel BG)	No value	6	99 (Complete)	06 (Final Check Rejected)
95 (Revision Processing)	07 (Request Again)	7	90 (Final Check)	02 (Changes to be executed)
95 (Revision Processing)	08 (Withdraw)	8	92 (Revision/Cancel BG)	02 (Changes to be executed)
80 (Approver)	03 (Approve)	9	90 (Final Check)	04 (Final Check to Be Performed)
80 (Approver)	04 (Reject)	10	95 (Revision Processing)	95 (Revision Processing)

DT_USER_AGT_GRP_AR01/2/A

COND_ALIAS	AGENT_GROUP	STEP_TYPE	USER_TYPE	USER_VALUE
1	001	2 (Approve Change Request)	AG	/UGI4/MDGRFM_STEW
5;7,9	001	8 (Activate Change Request)	AG	/UGI4/MDGRFM_SPEC
3; 10	001	4 (Revise)	SU	INIT

DT_NON_USER_AGT_GRP_AR01/2/A

COND_ALIAS	AGENT_GROUP	PROCESS_PATTEN
2	001	06 (Activation (Bypass Snapshot))
4;6	001	99 (Complete (Sub-)Workflow)
8	001	08 (Roll back change request)

Notes:

- It is necessary to activate your new entries for each of the three decision tables.
- The quickest way to allow users to participate in any workflow step for testing purposes is assigning the following roles to their user ID in SU01:
 - /UGI4/MDGRFM_SPEC (The MDG-RFM Specialist role of **PFCG/SU01**)
 - /UGI4/MDGRFM_STEW (The MDG-RFM Steward role of **PFCG/SU01**)

- If the system cannot find a processor for your change requests check the background steps of the change requests workflow log to see if a work item with the description *Set Status x for Change Request y* is in process or in error. If this is the case regenerate the authorization profile of `SAP_ALL` or include `USMD*` authorization objects into the authorization for the user `WF-Batch`.
- Choosing the process pattern *06 Activation (Bypass Snapshot)* means that the article will be activated, even if the article record was changed in the backend system since the change request was created. Any backend changes are lost upon activation.

3.13. Setting up of Data Replication

Refer to the “Utopia MDG RFM – How-To guide for DRF Customer Configuration” to set up the data replication using ALE.

3.14. Setting up of Analytics for MDG

MDG comes with a small set of BI queries that support the visual analysis and overall monitoring of the change requests. They are included in Web Dynpro Applications (List View) and one dashboard, which is based upon Xcelsius.

Prerequisites:

- BI Java Server
- A browser with flash plug-in

MDG Analytics is based on operational analytics in ECC. The Infoprotector is an ODP (Operation Data Provider) and it is located in the ECC system and not in BW.

Refer to the document: [MDG Analytics BI Content Activation](#) for more details.

Note:

Ensure that the following services are activated:

- `MDG_MONITOR_CR_PROCESTIME` - Application Configuration for Monitoring CR Processing Time
- `MDG_CR_PROCESTIME_TREE` – Processing Time
- `MDG_ANLY_CR_REJ_REASON` - Change Request Rejection reason

3.15. Setting up POWL (Personal Object Work List)

Ensure the following table entries to be maintained in table “`IBO_C_WF_TAS`”.

Note:

"The Incorrect entries for `UGI4` in table `IBO_C_WF_TAS`" need to be deleted before adding the below entries.

Application	Workflow Task ID	Task Completed	Action Name	Notes	Attachments
/UGI4/MDM_CREQEUST	TS53200002		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS54307924		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS54307925		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS54307928		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS54307931		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS54307937		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS60807954		USMDCREQUESTPROCESS		

Application	Workflow Task ID	Task Completed	Action Name	Notes	Attachments
/UGI4/MDM_CREQEUST	TS60808004		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS60808005		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS60808007		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS75707943		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS75707979		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS75707980		USMDCREQUESTPROCESS		
/UGI4/MDM_CREQEUST	TS75707981		USMDCREQUESTPROCESS		

3.16. Choosing Location to run SAP Master Data Governance

You can run SAP Master Data Governance in any of the following environments:

- SAP NetWeaver Portal
- SAP NetWeaver Business Client

SAP NetWeaver Portal

The SAP NetWeaver Portal content for MDG for material is derived directly from the system **PF**CG roles. To create SAP NetWeaver Portal roles for your users, you must log on to your portal and upload the content information from your back-end system **PF**CG roles.

To upload your portal content to the portal, perform the following actions:

1. Set up your SAP NetWeaver Portal for MDG.
2. In the **Content Administration** work center choose ► *Portal Content Management* ► *Portal Content* and select a portal content folder to upload the portal content to.
3. Right-click the folder and choose ► *New* ► *Role* ► *Role from Back End*.
4. Select the system and client (or the connected system alias) you want to upload the role information from. This should be your MDG system.
5. From the displayed list, select the **MARA** roles you want to upload the content from and begin the upload.
6. After the roles are uploaded, perform the following actions to assign and personalize the MDG portal roles as follows:
 - a. Log on to the portal.
 - b. Choose **Delegated User Administration**.
 - c. Enter your User ID and choose **Go**.
 - d. Mark the line of your user and choose **Modify**.
 - e. Select the **Assigned Roles** tab.
 - f. Enter MDG as the search criteria.
 - g. Select the portal role you want to add.
 - h. Choose **Add** and save.

After assigning the user role you need to log off and log on to the portal. For more information on uploading role information see SAP Note [1685257](#) [External].

SAP NetWeaver Business Client

If you are running SAP Master Data Governance on the SAP NetWeaver Business Client (and not on the SAP NetWeaver Portal), you need to create, define, and configure the roles for the Business Client in the SAP ERP system.

There are four roles containing authorization and navigation information and one role (/UGI4/MDGRFM_MENU) containing only navigation information.

To assign and personalize the roles Master Data Governance for RFM perform the following actions:

1. On the SAP Easy Access screen, choose **Tools > Administration > User Maintenance > Role Administration > Roles** or alternatively, run transaction **PF03** (Role Maintenance). Choose role /UGI4/MDGRFM_MENU.
This role ensures that the necessary steps can be started without using the SAP NetWeaver Portal. This can be used for testing or if the portal is inactive.
2. Verify the setting of the authorization objects within the roles and restrict them if required.
3. On the SAP Easy Access screen, choose **Tools > Administration > User Maintenance > Users**. Run transaction **SU01** (User Maintenance) and assign the Master Data Governance for Material: Menu role (/UGI4/MDGRFM_MENU) for application to the MDG user.

Repeat these steps to assign additional authorization roles to your users.

FIORI User Interfaces

If you want to use the delivered FIORI User Interfaces, follow the complementary guide.

<<<< name of the guide >>>>

3.17. Choosing UI Theme to run SAP Master Data Governance

Prerequisite Visual Harmonization of UIs

To apply Belize Themes for customers using MDGEAM 730 SP01 and above, perform the following steps:

1. If the MDG version used is lower than MDG 9.0 SP002 on S/4 HANA, ensure the following parameters are set to the values as displayed.

If not perform the following instructions:

1. Go to the package 'USMD_GENERIC_BOLUI' that contains the Web Dynpro application using transaction SE80.
2. In the package structure, locate Web Dynpro a FPM Application 'USMD_OVP_GEN'.

Execute the following steps for the application:

1. Select the application and switch to tab "Parameters".
2. Switch to edit mode.
3. Locate parameter "WDDISPLAYLOADINGPAGE" and set its value to 2, if already not set. Add the parameter if required.
4. Save the changes.

Application Saved

Properties Parameters

Parameters	Value	Type	Description
ACTION			Application-Specific Attribute
BCV_CONTEXT_KEY	MDGAF_SOM		Application-Specific Attribute
CRTYPE			Application-Specific Attribute
FPM_IGNORE_WIRE_SOURCE	X		Application-Specific Attribute
FPM_PAGING_ACTIVE			Application-Specific Attribute
MDG_HC_COLOR_SAVED			Application-Specific Attribute
MDG_HC_COLOR_UNSAVED			Application-Specific Attribute
MDG_HC_DISABLE			Application-Specific Attribute
USMD_OTC			Application-Specific Attribute
USMD_SEARCH_EDITION_MODE			Application-Specific Attribute
WDCONFIGURATIONID		STRING	Configuration Name
WDDISPLAYLOADINGPAGE	2	WDR_APP_PROP_DISP_LOADINGPAGE	Application Starts with a Loading
WDSIDEPANELCONFIGURATIONID	/BCV/SIDEPANEL_20	STRING	Configuration ID of Side Panel
WDSTYLE_TOOLBARDESIGN	FLAT	WDR_APP_PROP_TOOLBAR_DESIGN	Toolbar Design
WDUIGUIDELINE	GL20	WDR_APP_PROP_UIGUIDELINE	UI Guideline
WFSIEP			Application-Specific Attribute

In SAP MDG you can choose different User Interface (UI) Themes to display the UI.

The UI theme for default is SAP_CORBU theme (that is the theme displayed below).

Article: @@@6 - (Trading Goods / DRFMC01 / Single material)

Save Submit Edit Expand All Collapse All Check

Assignment Block: [v]

Change Request Edit

General Notes Attachments

General Data

Change Request ID: 6

Description: [v]

Priority: [v]

Due Date: [v]

Reason: [v]

Process Data

Status: Changes to Be Executed

Current Workitem: New Change Request

Created On/By: 05.03.2017 10:06:32 IGONZALEZ

Basic Data Edit Additional Data Components Listing Characteristics

Article: @@@6

Article Category: 00 Single material

Groupings

Merchandise Category: DRFMC01

Industry sector: 1 Retail

Product Hierarchy: [v]

Authorization Group: [v]

Pricing Ref. Article: [v]

Price Band Category: [v]

Article Type: HAWA Trading Goods

Division: [v]

Ext. Material Group: [v]

ABC Indicator: [v]

Fashion Grade: [v]

General Data

Valuation Class: 3100 Trading goods

Country of origin: [v]

Discount in kind: [v]

Region of origin: [v]

The SAP_BLUECRYSTAL theme also exists, and the theme has a FIORI 1.0 as displayed below.

Article: @@7405, Ref Article _Tops - (Trading Goods / TOPS / Single article)

Save Submit Edit Expand All Collapse All Check

Assignment Block: [dropdown] Side Panel

Change Request Edit

General Notes Attachments

General Data

Change Request ID: 11477

Description: [text field]

Priority: [dropdown]

Due Date: [calendar icon]

Reason: [dropdown]

Process Data

Status: Changes to Be Executed

Current Workitem: New Change Request

Created On/By: 05.03.2017 10:09:10 IGONZALEZ

Basic Data Edit Additional Data Components Listing Characteristics

Article: @@7405

Article Category: 00 Single article

Groupings

Merchandise Category: TOPS

Industry sector: 1

Product Hierarchy: 00002 [icon] Drinks

Authorization Group: [text field]

Pricing Ref. Article: [text field]

Price Band Category: 1 Middle price band

Article Type: HAWA

Division: 00

Ext. Material Group: [text field]

ABC Indicator: B

Fashion Grade: FG1

General Data

Valuation Class: 3100 Trading goods

Discount in kind: [dropdown]

If you are running MDG for RFM 900 in S/4 HANA, SAP_BELIZE theme is available with a FIORI 2.0 as displayed below.

SAP Article: @@277, Ref Article - (Trading Goods / TOPS / Single material)

Expand All Collapse All Refresh Check

Assignment Block: [dropdown] Side Panel

Change Request Edit

General Notes Attachments

General Data

Change Request ID: 303

Description: [text field]

Priority: [dropdown]

Due Date: [calendar icon]

Reason: [dropdown]

Process Data

Status: Changes to Be Executed

Current Workitem: New Change Request

Created On/By: 05.03.2017 10:12:16 IGONZALEZ

Basic Data Edit Additional Data Components Listing Characteristics

Article: @@277

Article Category: 00 Single material

Groupings

Merchandise Category: TOPS

Industry sector: 1

Product Hierarchy: [text field] Retail

Authorization Group: [text field]

Pricing Ref. Article: [text field]

Price Band Category: [text field]

Article Type: HAWA

Division: [text field]

Ext. Material Group: [text field]

ABC Indicator: [text field]

Fashion Grade: [text field]

General Data

Valuation Class: 3100 Trading goods

With empties BOM: [checkbox]

Region of origin: [text field]

Save Submit Edit

To choose and run the required Theme, perform the following actions.

1. Go to Transaction **SE11** and access to table NWBC_CFG and click **Display**.

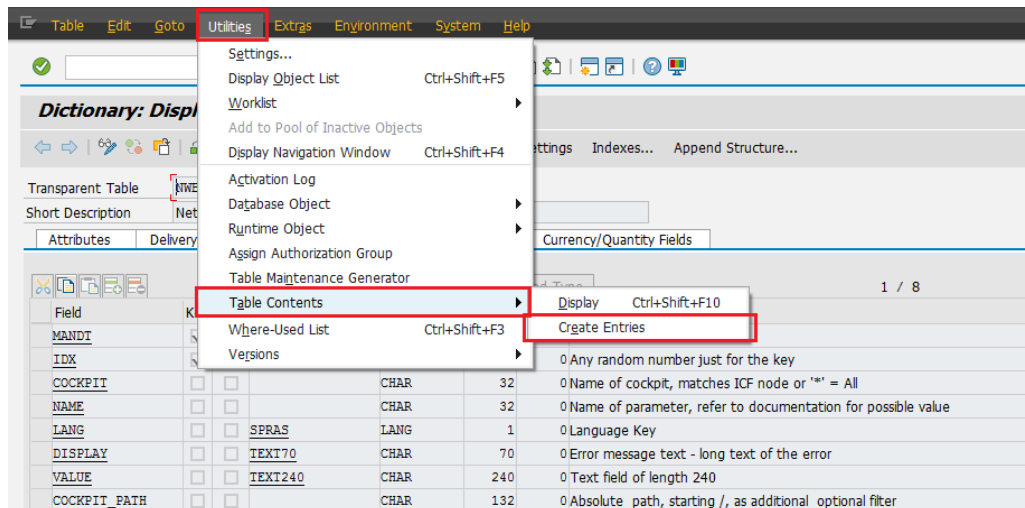
ABAP Dictionary: Initial Screen

Database table View

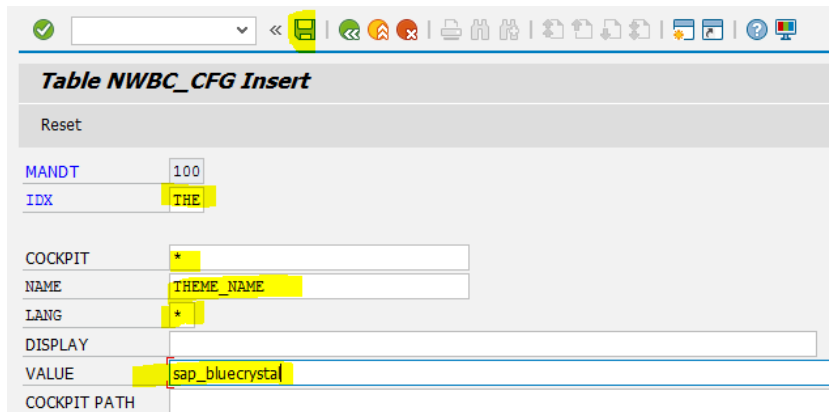
Data type Type Group Domain Search help Lock object

Display Change Create

2. Click *Utilities->Table Contents->Create Entries*



- a. Provide the Theme details as given below, and click **Save**.



- IDX: THE <- could be any value
 - COCKPIT: *
 - NAME: THEME_NAME
 - LANG: *
 - VALUE: SAP_BLUECRYSTAL
- b. If you want to change the Theme in future, perform the following.
- i. Access the table
 - ii. Edit the row

Data Browser: Table NWBC_CFG Select Entries 1

Table: NWBC_CFG
Displayed Fields: 6 of 8 Fixed Columns: 2 List Width 0250

MANDT	IDX	COCKPIT	NAME	LANG	DISPLAY
100	THE	*	THEME_NAME	*	

- iii. Change the field **VALUE**.
- iv. Click **Save**.

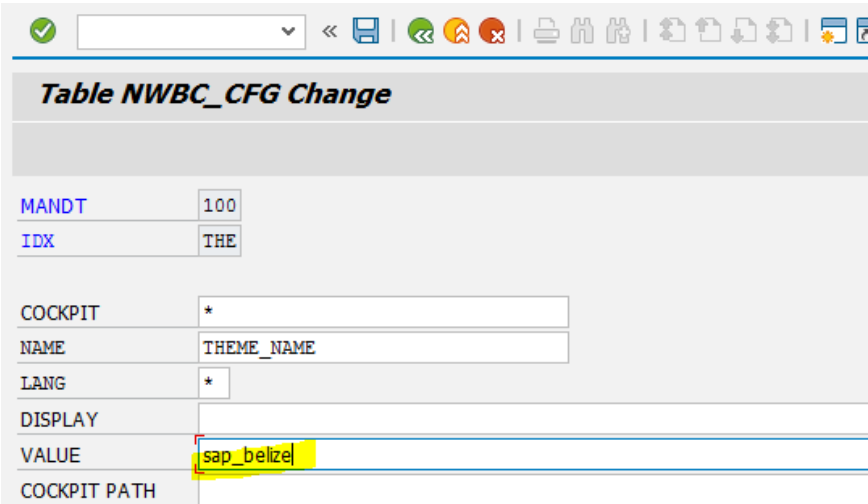


Table NWBC_CFG Change	
MANDT	100
IDX	THE
COCKPIT	*
NAME	THEME_NAME
LANG	*
DISPLAY	
VALUE	sap_belize
COCKPIT PATH	

3.18. Final Steps

SAP recommends to regenerate the data model again after completing the setup steps to ensure clear code generation.

Appendix

This Chapter provides the details of other relevant Configuration Guide links

S No	Guide/Doc Title	Description	External Link
1	Fiori Implementation Guide	Implementing MDG Fiori App for Utopia RFM Solutions for MDG™	
2	DRF Guide	DRF_CustomerConfiguration V.2	
3	BRF+DTable		
4	CBA Guide	This guide helps you extend the MDG User Interface (UI) of RFM using the Context Based Adaptations (CBA).	