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## Configuring Master Data Governance for Utopia Solutions RFM for MDG™

Release 9.0 SP01

## Document History

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

**Table 1 Document Change History**

Version	Date	Description	Name
1.0	19 Jan 2017	Initial Version	Nacho Yoldi
1.0	20 Jan 2017	Initial Review	Michael Clement
1.0	27 March 2017	Final Review	Nacho Yoldi
1.0	27 Mar 2017	Reviewed	Kumar Saurav

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# 1. Introduction

## 1.1 Purpose

This Configuration Guide provides the information you require to set up SAP Master Data Governance (MDG) for Utopia Retail and Fashion Management (RFM) Solutions for MDG™ v9.0.

## 1.2 Target Audience

The primary audience comprises:

- System administrators
- Technical Consultants
- Functional Consultants

## 1.3 Organization

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	<p>This Chapter describes the necessary requirements to be fulfilled before starting the configuration process. This Chapter primarily comprises the following.</p> <ul style="list-style-type: none"> <li>• Prerequisites</li> <li>• Business Function</li> <li>• Setup Workflow</li> </ul>
Configuration Process	<p>This Chapter describes the sequence of configuration process steps as provided below.</p> <ol style="list-style-type: none"> <li>1. Activate the Data Model AR</li> <li>2. Activate Business Configuration Set</li> <li>3. Verify UI Modelling [Optional]</li> <li>4. UI Navigation               <ol style="list-style-type: none"> <li>a. Link Log. Actions with UI Application and Bus. Act.: Standard Definition</li> <li>b. Link Logical Actions with Business Activity: Standard Defini</li> </ol> </li> <li>5. Set Up Search</li> <li>6. Verify Data Quality and Search Settings</li> <li>7. Configure Change Request Settings</li> <li>8. Configuring Variant Splitter</li> <li>9. Deploying MDG RFM 9.0 when MDG RFM 8.0 is already exists in your system</li> <li>10. Configuring Workflow Tasks</li> <li>11. Setting Up of the Rule-Based Workflow</li> <li>12. Setting up Analytics for MDG</li> <li>13. Choose Location to run SAP Master Data Governance</li> <li>14. Executing Final steps</li> </ol>

Title	Description
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:

- Business Function
- Set Up Workflow
- Importing MDG content for RFM
- 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* ▶

<b>Automatic Workflow Customizing</b>	
    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	
▼  <b>Classify Tasks as General</b>	
•  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.

## Import MDG Content for RFM

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

- Adjust Profile Parameters
- **Error! Reference source not found.**
- **Error! Reference source not found.**
- Number Ranges
- Prerequisite Notes

## Business Function

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

### **i** 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)

### **i** Note

This 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].


## 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	
	
▼	<input checked="" type="checkbox"/> Maintain Runtime Environment <ul style="list-style-type: none"> <li>• <input checked="" type="checkbox"/> Configure RFC Destination</li> <li>• <input checked="" type="checkbox"/> Maintain Workflow System Administrator</li> <li>• <input checked="" type="checkbox"/> Maintain Active Plan Version</li> <li>• <input checked="" type="checkbox"/> Classify Decision Task as General</li> <li>• <input checked="" type="checkbox"/> Document Generation/Form Integration</li> <li>• <input checked="" type="checkbox"/> Maintain Time Units</li> <li>• <input checked="" type="checkbox"/> Schedule Background Job for Workflow Deadline Monitoring</li> <li>• <input checked="" type="checkbox"/> Schedule Background Job for Work Items with Errors</li> <li>• <input checked="" type="checkbox"/> Schedule Background Job for Condition Evaluation</li> <li>• <input checked="" type="checkbox"/> Schedule Background Job for Event Queue</li> <li>• <input checked="" type="checkbox"/> Schedule background job for clearing report</li> </ul>
▼	<input checked="" type="checkbox"/> Maintain Definition Environment <ul style="list-style-type: none"> <li>• <input checked="" type="checkbox"/> Maintain Prefix Numbers</li> <li>• <input checked="" type="checkbox"/> Check Number Ranges</li> <li>• <input checked="" type="checkbox"/> Check Entries from HR Control Tables</li> </ul>
▼	<input checked="" type="checkbox"/> Maintain Additional Settings and Services <ul style="list-style-type: none"> <li>• <input checked="" type="checkbox"/> Maintain Web Server</li> <li>• <input checked="" type="checkbox"/> Maintain Standard Domain for Internet Mail</li> <li>• <input checked="" type="checkbox"/> Activate Send to Objects and HR Objects</li> <li>• <input checked="" type="checkbox"/> Maintain Demo and Verification Environment</li> </ul>
▼	<input checked="" type="checkbox"/> Classify Tasks as General <ul style="list-style-type: none"> <li>• <input checked="" type="checkbox"/> Test Workflows</li> <li>• <input checked="" type="checkbox"/> Customizing with Workflow</li> <li>• <input checked="" type="checkbox"/> Unit Test</li> <li>• <input checked="" type="checkbox"/> IDoc Interface</li> <li>• <input checked="" type="checkbox"/> SAPphone</li> <li>• <input checked="" type="checkbox"/> Processing of Replies to Appointment Request</li> </ul>
▼	<input checked="" type="checkbox"/> Guided Procedures <ul style="list-style-type: none"> <li>• <input checked="" type="checkbox"/> Maintain Guided Procedures Gateway</li> <li>• <input checked="" type="checkbox"/> Maintain Generation of Standard Tasks</li> <li>• <input checked="" type="checkbox"/> Classify Generic Standard Tasks as General</li> </ul>

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.

## Import MDG Content for RFM

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

## Adjust Profile Parameters

Ensure that the profile parameter size for the *Shared Objects Memory* is correct. To check this 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
- `SAP_MDG_ADMIN` – Master Data Governance: Administrator  
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.

## 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.

## Number Ranges

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

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



## Prerequisite Notes

Go through the following notes.

- [2337862](#): HANA search view generation won't allow partners to deliver
- [2408516](#): HANA view details are not shown when the view opened by clicking hyperlink
- [2410045](#): HANA view details are not shown when the view opened by clicking hyperlink
- [2355722](#): Read API: Dump in CL\_USMD\_READ\_API
- [2413998](#): ARTMAS IDOC: Error SGT\_MAIN 040 raised with Invalid stock segment is raised while posting the inbound IDOC.
- [2431844](#): ARTMAS09: error SGT\_MAIN082 is raised when you post the IDOC having Segment level Storage bin stock data.
- [2415281](#): Read API: Text changes are not transferred
- [2437789](#): MDG Read Buffer: Discard Deletion of BP Relationship
- [2446256](#): Error in ARTMAS inbound while replicating article with more
- [2358521](#): Replication UI - button

## 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. [Choose Location to run SAP Master Data Governance](#)
15. [Final Steps](#)

## 3.1. Activating the Data Model

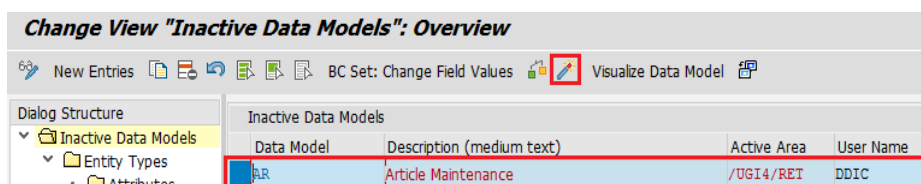
1. Check (or enhance) and activate the AR data model.
  - a. Check whether you can use the data model delivered by SAP for managing your Article master data with MDG-RFM solution.
  - b. Activate the delivered data model AR in *Customizing for Master Data Governance* under ► *General Settings* ► *Data 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.

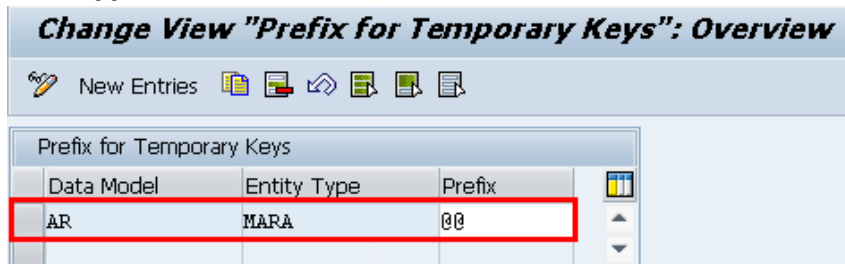
To support internal key assignment, run the activity in Customizing for Master Data Governance under ► *General Settings* ► *Data Modelling* ► *Define Prefixes for Internal Key Assignment*.

### **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		C5111405	<input type="text"/>

3. /UGI4/MDG\_RFM\_BCV\_900: BCV Entries for MDG RFM **FMS** 900

**Business Configuration Sets: Activation**

BC Set: /UGI4/MDG\_RFM\_BCV\_900

Short Text: BCV Entries for MDG RFM FMS 900

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

### 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)

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

### 3.4.1 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*.

Table 1: RFM Objects Logical Actions UI Application and Bus Act. Linkage (Common) - 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	CREATE	USMD_WF_NAVIGATION	USMD_WF_NAVIGATION	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR01
DRF_0017	DISPLAY	*	*	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR03
DRF_0017	LOAD	*	*	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0B
DRF_0017	MASS	*	*	USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	AR0A

### 3.4.2 Link Log. Actions with Business Activity: Standard Definition

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

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

BO Type	Log. Action	Current UI Application Name	Current UI Configuration	Target UI Application
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	CHANGE	AR02	Article Master Change
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	CREATE	AR01	Article Master Create
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	DISPLAY	AR03	Article Master Display
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	LOAD	AR0B	Article Master Load DIF
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA	MASS	AR0A	Article Master Mass Change
USMD_SEARCH	/UGI4/_AR_SEARCH	CHANGE	AR02	Article Master Change
USMD_SEARCH	/UGI4/_AR_SEARCH	CREATE	AR01	Article Master Create



### 3.5. Setup Search

MDG offers several options to search for the data in change requests including the active and inactive data. The search options are distinguished by their capabilities and their landscape requirements. The main difference is in their capability to include classification data in the search. These are the following options:

For Master Data Governance 9.0, you can use SAP HANA-based search. See [Configuring SAP HANA-Based Search for MDG \[External\]](#) for more detail.

In MDG-RFM there are 3 possible deployment scenarios:

- Scenario 1:** MDG-RFM with HANA as primary database.  
 MDG-RFM with HANA as primary database is the ideal scenario. **No** Enterprise Search and no SLT Replication to the HANA secondary Database. Everything is in MDG system. HANA Searches, Hana Duplicate Check, Analytics, HANA Drill-down Search and so on
- Scenario 2:** MDG-RFM with HANA as secondary database.  
 Same capabilities are as the first scenario but with SLT. No Enterprise Search. SLT needs to be in place to perform Replication of tables to HANA secondary database.
- Scenario 3:** MDG-RFM with normal database and no HANA.  
 You must have installed and connected the Enterprise Search in embedded form or as the central search engine service to use the Master Data Governance for article. If you do not need to search for classifications, you can replace the Enterprise Search with the standard database search or another search provider.



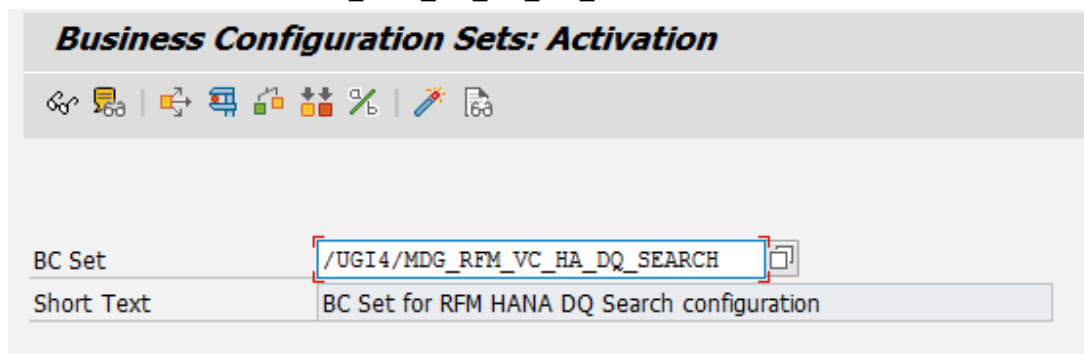
#### Recommendation

In MDG-RFM, the recommended search provider is SAP HANA Search (Scenario 1 if possible, otherwise scenario 2). If you do not have HANA as the primary or secondary database, use Enterprise Search engine based on TREX

#### Scenario 1: MDG-RFM with HANA as primary database

If SAP HANA is the primary database, it is not mandatory to maintain the database connection name or the SLT settings. You can perform the following actions directly.

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						
<div> <div>New</div> <div></div> <div>Check</div> </div>						
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(should always be save in)

Edit Search View: Step 1 (Enter General Data)

< Previous

Next >

Edit

Save

Generate

Cancel

1

2

3

Enter General Data

Select Entities and Attributes

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: ☐

**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.
- Click **Next** to continue with the **Review and Generate** step.  
Review the already selected (in the previous step) Entity and Attribute.
  - 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
      - TXMTI - Description (medium text)
  - ADDITIONA - Additional
    - Attributes
      - ADDIFM - Proc. for additional
      - ADDINVOC - Bill-to party

- 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

### **i** 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

Actions	Search View	Description	Business Object Type	Status
				
				
				
				
				
				
				
				
				

The system displays the HANA search UI as displayed below.

Search: Article

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 Criteria

Search Term:

Article

Article Type

Article Category

Merchandise Category

Description (medium text)

contains

contains

contains

contains

is

Maximum Number of Results: 100

Search

Clear Entries

Reset to Default

Save Search As:

## Scenario 2: MDG-RFM with HANA as Secondary database

If SAP HANA is the secondary database, it is mandatory to maintain the database connection name in MDG Landscape Profile customizing. If the name is not maintained, the system uses the default database connection. You still have the option of maintaining a different connection name in the MDG Landscape Profile if you do not wish to use the default database connection.

To configure SAP HANA-based search for MDG, perform the following actions.

1. Create Database Connection to SAP HANA database by executing the transaction **DBCO**.

Field	Value
Database Connection Name	Unique name for the SAP HANA database connection used for search and duplicate check
Database System	SAP HANA database
Permanent	Yes
User Name	Schema name created in step above
Connection Information	Server: instance number
Connection Limit	0
Optimum Number of Connections	0

2. Maintain the MDG SAP HANA Database Profile Settings.  
You must define the MDG Landscape settings such as the connection to the SAP HANA database that is used for the search and duplicate check processes. You can define these setting in Customizing under **Master Data Governance > General Settings > Technical Settings for Master Data > Define MDG Landscape Profile**.

Using an SAP Landscape Transformation (SLT) server is optional for MDG data replication. If you use SLT for replicating the MDG table data to the SAP HANA database system, you must also define a connection to an SLT server as explained below.

- a. Run transaction **MDGIMG**.
- b. Navigate to ► *Master Data Governance* ► *General Settings* ► *Technical Settings for Master Data* ► *Define MDG Landscape Profile*.
- c. Provide the following data in the text fields:

Field	Value
Database Connection Name for MDG	The SAP HANA database used for the search and duplicate check processes created in the previous step. This field is optional if MDG 7.0 is deployed on a SAP HANA database.
RFC Connecting MDG to SLT System	Optional, only enter data if you use SLT for data replication
SLT Configuration Name	Optional, only enter data if you use SLT for data replication

- d. In the SAP HANA system, where the search on MDG data is performed, you must:
  - i. Generate the **Search view**.
  - ii. If you deploy MDG on a traditional database, use SLT for replication. When generating the view, before it is created, the system replicates the required table metadata to the SAP HANA database using the SLT settings.

**Note:**

If SAP HANA is the primary database, it is not mandatory to maintain the database connection name in MDG Landscape Profile customizing. If the name is not maintained, the system uses the default database connection. You still have the option of maintaining a different connection name in the MDG Landscape Profile if you do not wish to use the default database connection.

- e. In the SLT system, the SLT user requires the authorization object `S_DMIS`, with the following field values defined for the user role:













Authorization Object	Value
Activity (ACTVT)	02 (Change)
MBT PCL: Scenario (MBT_PR_ARE)	SLOP (SAP Landscape Transformation)
MBT PCL: Processing Role Level (MBT_PR_LEV)	PACKAGE (Transfer package level)

Field	Description
<b>Web Dynpro Application</b>	<b>Application Configuration</b>
USMD_OVP_GEN	/UGI4/_AR_OVP_MARA
USMD_SEARCH	/UGI4/_AR_SEARCH

3. Long Text Table Creation and Initial Load: For Article Search, perform the following actions:
  - a. In transaction **SA38**, execute `MDG_HDB_MAT_MIGRATE_LONGTEXT` report 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.
4. Activate the **Search View**

- a. To activate the already delivered with 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
 	/UGI4/RFM_HA_SEARCH	Article HANA Search	Article (Retail)	Saved-Not Generated	SSINGH	2017.01.02
 	MM1STTEST	MM1stTest	Material	Saved-Not Generated	GEHRKE	2014.07.03
 	ZMDG_RFM_HA_SEARCH	Article Hana Search	Article (Retail)	Saved-Not Generated	IGONZALEZ	2016.07.05

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

Field	Description
Search View	/UGI4/RFM_HA_SEARCH
Description	Article HANA Search
Business Object Name	DRF_0017
HANA Package	ZMDG

**Edit Search View: Step 1 (Enter General Data)**

< Previous   Next >    Edit    Save   Generate    Cancel    

1   2   3

Enter General Data   Select Entities and Attributes   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: ☐

**Note:**

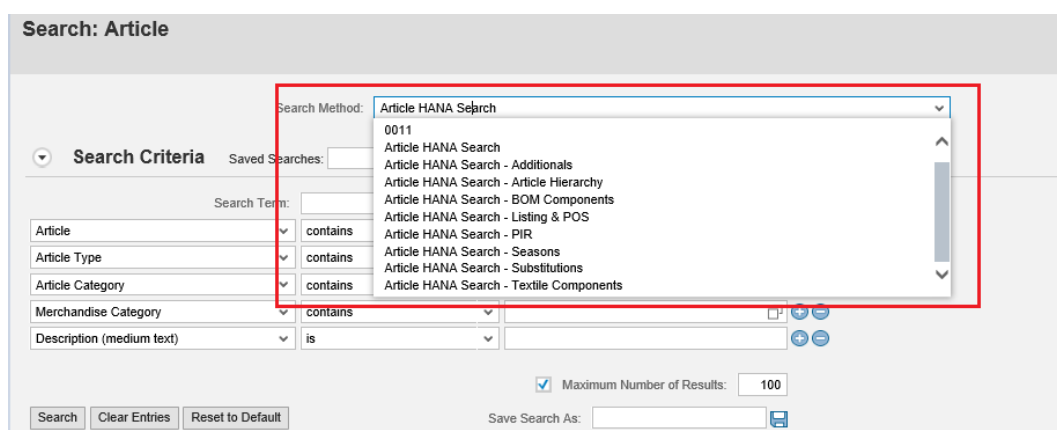
You can activate the **Rule Set** if you want to adjust your Hana Search later in the HANA Studio. With this you can go attribute by attribute and give your choice of attribute characteristics like fuzziness and so on. The **Rule Set** is for saving your manual changes in the HANA studio. Next time when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

- c. Click **Next** to continue with the next guided step **Select Entities and Attribute**, and 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 next guided step **Review and Generate**. Here you can review the Entity and Attribute (selected in the previous step) and click **Generate**. MDG-RFM 9.0 delivers a Set of SAP HANA Search Templates segregated in different Article functionalities and processes. These Searches 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 **Search** User Interface as the below given screenshot.



### Scenario 3: TREX-based Search

MDG-RFM with normal database, and no HANA.

You must have installed and connected the **Enterprise Search** in embedded form or as a central search engine service to use Master Data Governance for an Article. If you do not search classifications, you can replace the **Enterprise Search** with the standard database search or another search provider.

For TREX-based search, the following search options are available:

- Embedded Search (included in SAP NetWeaver on a local system)
- SAP NetWeaver Enterprise Search (run centrally)

#### Embedded Search

Embedded Search is limited to indexing and searching within a single SAP system (single SAPSID). In production scenarios with heavy data load it is mandatory to install a separate TREX instance that is used exclusively by Embedded Search for performance and sizing reasons. For installation information for TREX 7.1 see SAP note [1249465](#) [External].

If you want to use Embedded Search, run the following activity in Customizing for SAP NetWeaver under **Search and Operational Analytics > Embedded Search**.

If you are not familiar with TREX or TREX is not yet activated, proceed as follows to make the basic settings:

1. Activate BC set /UGI4/MDG\_RFM\_VC\_ES\_DQ\_SEARCH



**Business Configuration Sets: Activation**

BC Set: /UGI4/MDG\_RFM\_VC\_ES\_DQ\_SEARCH

Short Text: BC Set for RFM ES(Enterprise Search) DQ Search configuration

2. Connect to the **TREX** installation.  
During TREX installation, you have created an RFC-destination for the TREX.
  - a. Run transaction **SM59** in the TCP/IP connections section to verify that it exists and can be linked. Link the ABAP system to this TREX destination. For more information, see Customizing for SAP NetWeaver under **Search and Operational Analytics > SAP NetWeaver Enterprise Search > TREX > Set TREX Destination**.
  - b. Alternatively, you can run report ESH\_ADM\_SET\_TREX\_DESTINATION.

**Set the RFC destination of TREX or DB connection for HANA DB**

Set the RFC destination of TREX or DB connection for HANA DB

☒ Use TREX  
RFC Destination of TREX: [ ]

☐ Use HANA  
DB Connection Name: [ ]

Specify the HTTP-Destination to SAP HANA

HTTP Host: [ ]  
HTTP Port (XS-Engine): [ ]  
User Name: [ ]  
Password: [ ]

3. Create and index the connectors.
  - a. SAP delivers the following standard template for MDG-RFM. Activate the following template and prepare it for indexing.  
Material (MATERIAL) – for the active article data residing on the standard tables MA\* and related objects.
  - b. Open the Connector Administration Cockpit in Customizing for SAP NetWeaver under **Search and Operational Analytics > SAP NetWeaver Enterprise Search > Modeling, Administration, and Monitoring > Open Administration Cockpit**. Alternatively, you can run the transaction **ESH\_COCKPIT**. Make the following settings:
    - i. To create the **Standard** connectors, click **Create**.

**Search Object Connectors**

Refresh Create Delete Actions System Settings Model Modeler

Status: All (0) Other: All (0)

Connector Name Connector ID

**No search object connectors found for the current filter**

- ii. Select Software component **PLMWUI**.  
Choose the software component **PLMWUI** if it exists. If PLMWUI does not exist, choose **EA-APPL**.



The highest software component for the connector **MATERIAL**. For example:

- If the software layer hierarchy is *PLMWUI > EA-APPL > SAP-APPL* use the software component **PLMWUI**.
- If the software layer hierarchy is *EA-APPL > SAP-APPL*, use the software component **EA-APPL**

#### Create Search Object Connector

**Select a Software Component**

\* Software Component: BCV Objects

Connector Models

Select connector models for which connectors have already been created.

Create Connector

Model	Description
BCV_DASHBOARD	BCV Dashboard
BCV_OVERVIEW	BCV Overview
BCV_QUERY	BCV Query
BCV_QVIEW	BCV Query View
BCV_SCONN	BCV Search Connector
ESH_CATEGORY	Search Category
ESH_CONNECTOR	Search Connector
ESH_SWC	Search Software Component

BCV Objects

- Master Data Governance Foundation
- NWECM\_SEARCH
- R/3 Enterprise Extension Financials
- SAP Enterprise Extension PLM, SCM, Finan
- SAP Enterprise Extension PLM, SCM, Finance SOH
- SAP Healthcare
- SAP IS-PRA
- SAP Insurance - Claim Processing
- SAP PLM Web UI
- SAP PLM Web UI SOH
- SAP PLM Web UI SOH

MDG\_FND

NWECM\_SEARCH

EA-FI

EA-APPL

EAAPPLH

IS-H

IS-PRA

FS-CM

PLMWUI

PLMWUIH

IS-PLM-SCM

c. Select Model **MATERIAL** and click **Create Connector**:

**Select a Software Component**

\* Software Component: SAP PLM Web UI

Connector Models

Select connector models for which you want to create connectors. This function is intended for creating new connectors only. Therefore, models for which connectors have already been created cannot be processed here.

Create Connector

Find

Model	Description
MASTER_INSP_CHAR	Master Inspection Characteristics
<b>MATERIAL</b>	<b>Material</b>
MATERIAL_PLANT	Plants assigned to Material

Wait until all the connectors are in status **prepared** (Press **Refresh** button to display the latest status)

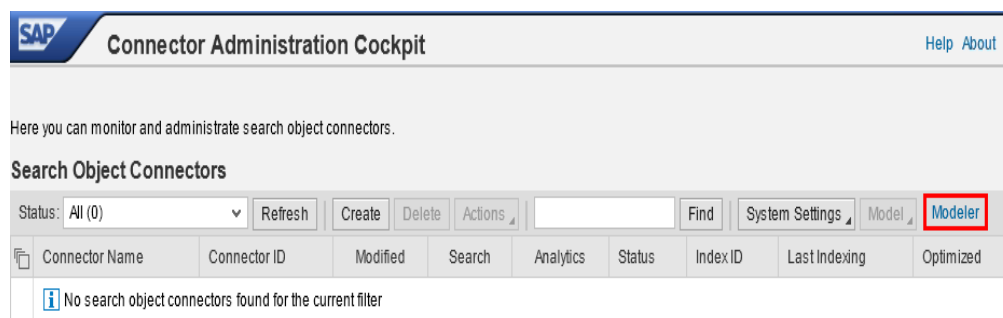
Search Object Connectors

Refresh Create Delete Actions System Settings Model Modeler

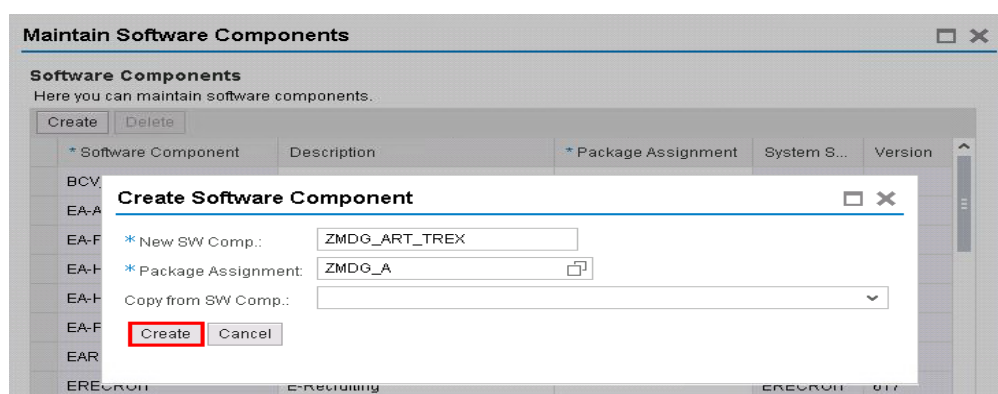
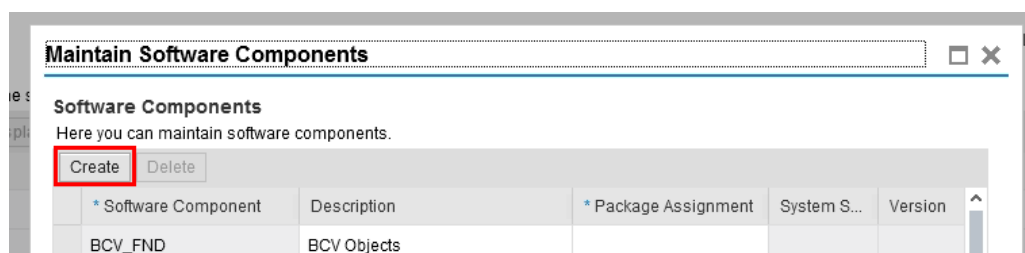
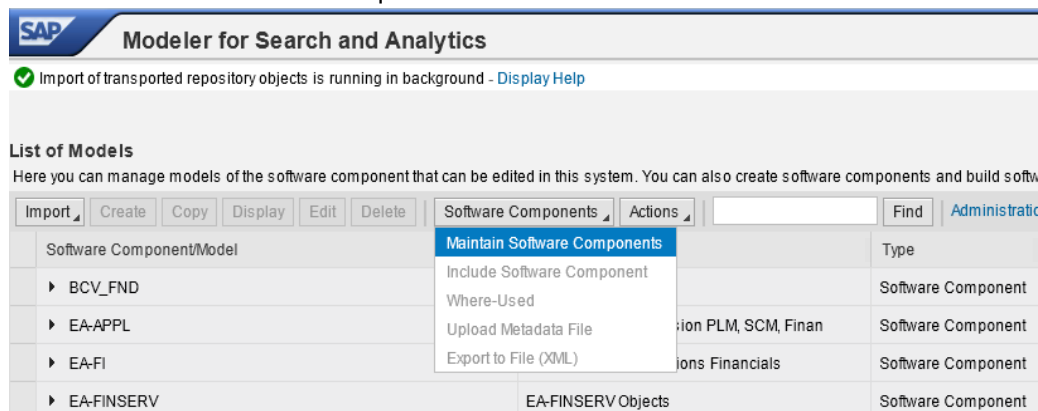
Status: All (11) Other: All (11) Find in table Find

Connector Name	Connector ID	Modified	Search	Analytics	Status
Access Control Context	RST100-ACCESS_CONTROL_CTX~				Prepared
Document Info Record	RST100-DOCUM_INFO_REC~				Prepared
ESH Personal Searchterm Statistics	RST100-ESH_SEARCHTERM_PERS~				Prepared
Engineering Change Order	RST100-ENGIN_CHANGE_ORDER~				Prepared
Material	RST100-MATERIAL~				Prepared
Material Group	RST100-MATKL~				Prepared
Production (Material) Bill of Material	RST100-PRODUCTION_MBOM~				Prepared
Search Category	RST100-ESH_CATEGORY~				Prepared
Search Connector	RST100-ESH_CONNECTOR~				Prepared
Search Software Component	RST100-ESH_SWC~				Prepared

d. After the status is prepared, open the Modeler, and select the Modeler link.



- e. In the **Software Components** menu choose **Maintain Software Components** and choose **Create**.
  - i. For the new software component use the mandatory name **ZMDG\_ART\_TREX**
  - ii. Assign the desired package.
  - iii. Choose **Create**. Enter a description for the new software component and press **Save**.
  - iv. Select a workbench request.



## Maintain Software Components



## Software Components

Here you can maintain software components.

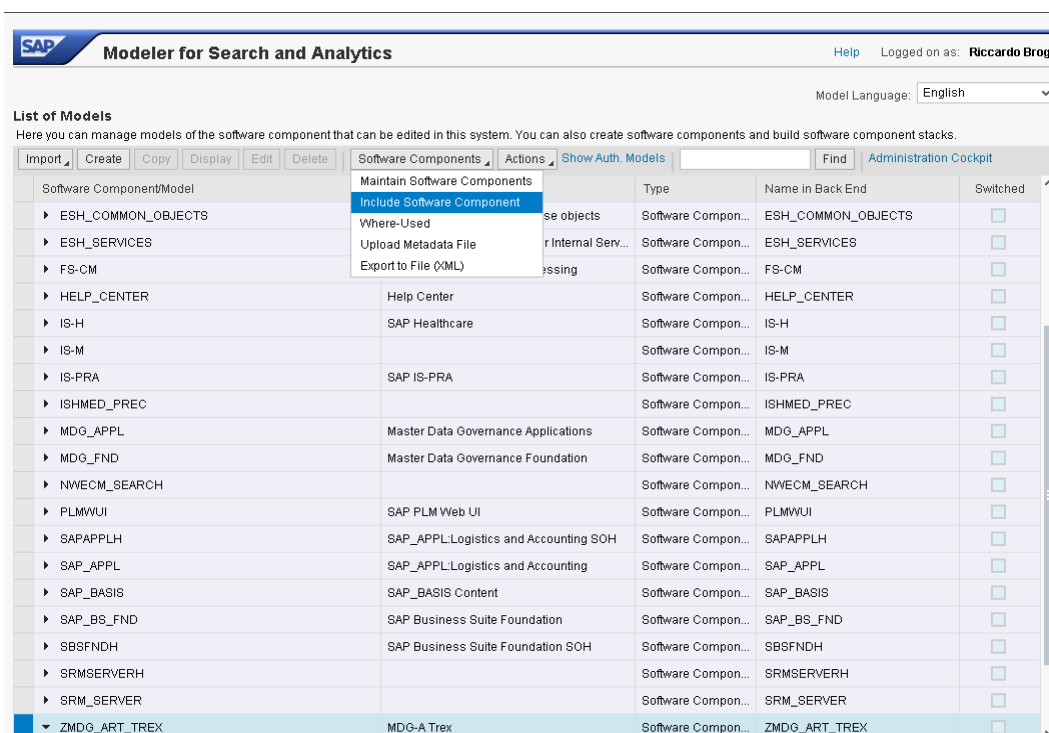
<a href="#">Create</a>	<a href="#">Delete</a>				
* Software Component	Description	* Package Assignment	System S...	Version	
NWECM_SEARCH			SAP_TEST		
PLMWUI	SAP PLM Web UI		PLMWUI	747	
SAPAPPLH	SAP_APPL:Logistics and Accoun...	ESH_SAPAPPLH_ES...	SAP_APPL	617	
SAP_APPL	SAP_APPL:Logistics and Accoun...		SAP_APPL	617	
SAP_BASIS	SAP_BASIS Content	S_ESH_CONTENT_B...	SAP_BASIS	740	
SAP_BS_FND	SAP Business Suite Foundation	BS_FND_CONT_GEN_C	SAP_BS_F...	747	
SBSFNDH	SAP Business Suite Foundation S	ESH_SBSFNDH_ESSW	SAP_BS_F...	747	
SRMSERVERH		ESH_SRMSERVERH	SRM_SER...	713	
SRM_SERVER			SRM_SER...	713	
ZMDG_ART_TREX	MDG-A Trex	ZMDG_ARTICLE_DEMO	HOME		

[Save](#) [Cancel](#)

- f. Mark your new software component, from the **Software Component** menu select **Include Software Components**, and include the software component used in the Step 1.

The highest software component for the connector MATERIAL. For example:

- if the software layer hierarchy is *PLMWUI > EA-APPL > SAP-APPL* use the software component PLMWUI.
- If the software layer hierarchy is *EA-APPL > SAP-APPL*, use the software component **EA-APPL**.



The screenshot shows the SAP Modeler for Search and Analytics interface. The 'List of Models' section displays a table of software components. The 'Software Components' table has columns: Software Component Model, Type, Name in Back End, and Switched. The 'Include Software Component' menu is open, showing options: Where-Used, Upload Metadata File, and Export to File (XML).

Software Component Model	Type	Name in Back End	Switched
ESH_COMMON_OBJECTS	Software Compon...	ESH_COMMON_OBJECTS	<input type="checkbox"/>
ESH_SERVICES	Software Compon...	ESH_SERVICES	<input type="checkbox"/>
FS-CM	Software Compon...	FS-CM	<input type="checkbox"/>
HELP_CENTER	Software Compon...	HELP_CENTER	<input type="checkbox"/>
IS-H	Software Compon...	IS-H	<input type="checkbox"/>
IS-M	Software Compon...	IS-M	<input type="checkbox"/>
IS-PRA	Software Compon...	IS-PRA	<input type="checkbox"/>
ISHMED_PREC	Software Compon...	ISHMED_PREC	<input type="checkbox"/>
MDG_APPL	Software Compon...	MDG_APPL	<input type="checkbox"/>
MDG_FND	Software Compon...	MDG_FND	<input type="checkbox"/>
NWECM_SEARCH	Software Compon...	NWECM_SEARCH	<input type="checkbox"/>
PLMWUI	Software Compon...	PLMWUI	<input type="checkbox"/>
SAPAPPLH	Software Compon...	SAPAPPLH	<input type="checkbox"/>
SAP_APPL	Software Compon...	SAP_APPL	<input type="checkbox"/>
SAP_BASIS	Software Compon...	SAP_BASIS	<input type="checkbox"/>
SAP_BS_FND	Software Compon...	SAP_BS_FND	<input type="checkbox"/>
SBSFNDH	Software Compon...	SBSFNDH	<input type="checkbox"/>
SRMSERVERH	Software Compon...	SRMSERVERH	<input type="checkbox"/>
SRM_SERVER	Software Compon...	SRM_SERVER	<input type="checkbox"/>
ZMDG_ART_TREX	Software Compon...	ZMDG_ART_TREX	<input type="checkbox"/>

- g. To create the required connector template for staging area, go to Customizing for *Master Data Governance under General Settings Data Quality and Search Search and Duplicate Check Create Search Object Connector Templates*.

Use the following values:

- Software Component: ZMDG\_ART\_TREX
- Business Object Type: DRF\_0017
- Search Obj. Connector Template: MDG\_ARTICLE

**Create/Change Search Object Connector Template for Staging Area**

Search Object Connector Template details

Software Component	ZMDG_ART_TREX
Business Object Type	DRF_0017
Search Obj. Connector Template	MDG_ARTICLE
Template Description	MDG_RFM - TREX Template for Staging Area

- h. Assign the search object connector template previously created to business object type DRF\_0017.  
 Perform this action in Customizing for Master Data Governance under **General Settings** > **Data Quality and Search** > **Assign Search Object Connector Templates to Object Types**.

**Change View "Assign Search Object Connector Template to Object Type":**

New Entries

BO Type	Object Type	Software Component	Root
DRF_0017	MDG_ARTICLE	ZMDG_ART_TREX	<input type="checkbox"/>

Go to the Modeler, under the new software component ZMDG\_ART\_TREX, you can view the newly created software component MDG\_ARTICLE.


- On this component ZMDG\_ART\_TREX, add the **Classification Search**, which enables you to search Class and Char in the Staging Area.
- Select the software component MDG\_ARTICLE and click **Edit**.

**List of Models**  
 Here you can manage models of the software component that can be edited in this system. You can also create software components and build software component stacks.

Import Create Copy Display **Edit** Delete Software Components Actions Show Auth. Models Find Administration Cockpit

Software Component/Model	Description
HELP_CENTER	Help Center
IS-H	SAP Healthcare
IS-M	
IS-PRA	SAP IS-PRA
ISHMED_PREC	
MDG_APPL	Master Data Governance Applications
MDG_FND	Master Data Governance Foundation
NWECM_SEARCH	
PLMWUI	SAP PLM Web UI
SAPAPPLH	SAP_APPL Logistics and Accounting SOH
SAP_APPL	SAP_APPL Logistics and Accounting
SAP_BASIS	SAP_BASIS Content
SAP_BS_FND	SAP Business Suite Foundation
SBSFNDH	SAP Business Suite Foundation SOH
SRMSERVERH	
SRM_SERVER	
ZMDG_ART_TREX	MDG-A Trex
PLMWUI	SAP PLM Web UI
MDG_ARTICLE	MDG-A TEMPLATE FOR STAGING AREA
ZMDG_MAT_TREX	MDG - Material TREX Search

**Details: Structure of 'MDG\_ARTICLE' of software component 'ZMDG\_ART\_TREX'**

- i. From the First Screen Model Properties, select your Z Package, where you want to run the Model MDG\_ARTICLE changes to add the Class and Char.
- j. Click **4 Model Requests** (  )

Define Model MDG\_ARTICLE of Software Component ZMDG\_ART\_TREX

1 Model Properties 2 Model Nodes 3 Node Relations 4 Model Requests 5 Node Response 6 Operational Data Provider

< Previous Next > Cancel Finish Save

Name in Back End:  
Runtime Model ID: ZMDG\_ART\_TREX-STANDARD-MDG\_ARTICLE~

Select icon ☐


**Model Usage**

☒ Application Model  
☐ Technical Model  
☐ Authorization Model  
☐ Virtual Model

Properties Predecessors Keywords Categories Extraction Schedule

Model Description: MDG ARTICLE STAGING  
 Plural Model Description:

Created by:

\* Package: ZMDG 

Package Description: Z Package

- k. From **4 Model Requests**, click **Add -> Attributes/Groups from Node**:

SAP Modeler for Search and Analytics

Define Model MDG\_ARTICLE of Software Component ZMDG\_ART\_TREX

1 Model Properties 2 Model Nodes 3 Node Relations 4 Model Requests 5 Node Response 6 Operational Data Provider

< Previous Next > Cancel Finish Save

**Requests of 'MDG\_ARTICLE'**

Here you can define how users can access data of the model. For application models and virtual models it is possible to generate a default request that contains all response attributes of the root node. The default request is this request or add other requests. The request attributes can be chosen from any node of any model that is linked directly or indirectly to this model.

Generate Default Request Create Delete Where-Used

*Name	*Description	Default Request	Attr. Search	Value Help
DEFAULT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Request Attributes**

Details: Attributes of Request 'DEFAULT'

Add Remove Reset Attribute Description Move View Switch Assignment

Attribute/Groups from Node

New Group Assignment to Group

Description	Select P...	Reference Node	Reference Attri...	Ref. Attribute Description	Type	Int. Nav.	Relevancy	Free...	Swit...
Season Category	Select Path	MARA	SAISO	Season Category	CHAR(4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

- l. Select Node **CHARACTER** and Attributes **ATWRT** and **CHARVALX** and click **Select**.

Define Model MDG\_ARTICLE

1 Model Properties 2 Model Nodes

< Previous Next > Cancel Finish

**Requests of 'MDG\_ARTICLE'**

Here you can define how users can access data of the model. For application models and virtual models it is possible to generate a default request that contains all response attributes of the root node. The default request is this request or add other requests. The request attributes can be chosen from any node of any model that is linked directly or indirectly to this model.

Generate Default Request Create

\*Name  
DEFAULT

**Request Attributes**

Details: Attributes of Request 'DEFAULT'

Add Remove Reset Attribute Description Move View Switch Assignment

Attribute Group/Attribute

Node	Description	Model	Cardinality	Association
MARA	Article	MDG_ARTICLE	0..n	
ARTHER	ARTHER	MDG_ARTICLE	0..n	
ASSORT	ASSORT	MDG_ARTICLE	0..n	
ASSORT_DI	Assortment display	MDG_ARTICLE	0..n	
BASOTEXT	Basic Data Text	MDG_ARTICLE	0..n	
BOM	Bom structures	MDG_ARTICLE	0..n	
SPORDTEXT	Purchase Order Text	MDG_ARTICLE	0..n	
CHARACTER	Characteristics	MDG_ARTICLE	0..n	
CHAR_PROF	Characteristics Profile	MDG_ARTICLE	0..n	
IMAGE	Image Url	MDG_ARTICLE	1..1	

**Details: Attributes of Node 'CHARACTER'**

Attribute Group/Attribute	Description	Type
USMD_ACTIVE	Aktiver/Inaktiver Datensatz	CHAR(1)
SEARCH_RANK	Rank in Search Result (as Percentage)	DEC(5)
ATINN	Internal characteristic	NUMC(10)
ATWRT	Characteristic Value	CHAR(30)
MARA	Article Number	CHAR(18)
ATNAM	Characteristic Name	CHAR(30)
ATWTB	Characteristic value description	CHAR(30)
CHARVALX	Characteristic Value Checkbox	CHAR(1)
SRTPD_C	Sort Position	NUMC(5)

m. For Node CHAR\_PROF and Attribute CHARP and click **Select**

Models and Nodes				
Node	Description	Model	Cardinality	Association
▼ MARA	Article	MDG_ARTICLE		
ARTHIER	ARTHIER	MDG_ARTICLE	0..n	
ASSORT	ASSORT	MDG_ARTICLE	0..n	
ASSORT_DI	Assortment display	MDG_ARTICLE	0..n	
BASIDTEXT	Basic Data Text	MDG_ARTICLE	0..n	
BOM	Bom structures	MDG_ARTICLE	0..n	
BPODTEXT	Purchase Order Text	MDG_ARTICLE	0..n	
CHARACTER	Characteristics	MDG_ARTICLE	0..n	
CHAR_PROF	Characteristics Profile	MDG_ARTICLE	0..n	
IMAGE	Image Url	MDG_ARTICLE	1..1	

Details: Attributes of Node 'CHAR_PROF'		
Attribute Group/Attribute	Description	Type
USMD_ACTIVE	Aktiver/inaktiver Datensatz	CHAR(1)
SEARCH_RANK	Rank in Search Result (as Percentage)	DEC(5)
CHARP	Class	CHAR(18)
MARA	Article Number	CHAR(18)
CHARP_DUM	String	STRG

The system displays the selected Entities/Attributes are part of the Search Nodes.

Requests of 'MDG_ARTICLE'				
Here you can define how users can access data of the model. For application models and virtual models it is possible to generate a default request that contains all response attributes of the root node. The default request this request or add other requests. The request attributes can be chosen from any node of any model that is linked directly or indirectly to this model.				
Generate Default Request	Create	Delete	Where-Used	
*Name	*Description	Default Request	Attr. Search	Value Help
DEFAULT		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Request Attributes											
Details: Attributes of Request 'DEFAULT'											
Add	Remove	Reset Attribute Description	Move	View Switch Assignment							
Attribute Group/Attribute	*Description	Select P...	Reference Node	Reference Attri...	Ref. Attribute Description	Type	Int. Nav.	Relevancy	Free...	Swit...	
SAISO	Season Category	Select Path	MARA	SAISO	Season Category	CHAR(4)	<input type="checkbox"/>	▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
SAISJ	Season Year	Select Path	MARA	SAISJ	Season Year	CHAR(4)	<input type="checkbox"/>	▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CHARP	Class	Select Path	MARA->CHAR_PROF	CHARP	Class	CHAR(18)	<input type="checkbox"/>	Low ▼	<input type="checkbox"/>	<input type="checkbox"/>	
REGION_R	Region code	Select Path	MARA	REGION_R	Region code	CHAR(3)	<input type="checkbox"/>	▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
ATWRT	Characteristic Value	Select Path	MARA->CHARACTER	ATWRT	Characteristic Value	CHAR(30)	<input type="checkbox"/>	Low ▼	<input type="checkbox"/>	<input type="checkbox"/>	
REF_ARTIC	Material Number	Select Path	MARA	REF_ARTIC	Material Number	CHAR(18)	<input type="checkbox"/>	▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
RDMHD	Rounding rule for calculat	Select Path	MARA	RDMHD	Rounding rule for calou...	CHAR(1)	<input type="checkbox"/>	▼	<input type="checkbox"/>	<input type="checkbox"/>	
RAUBE	Storage conditions	Select Path	MARA	RAUBE	Storage conditions	CHAR(2)	<input type="checkbox"/>	▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
CHARVALX	Characteristic Value Check	Select Path	MARA->CHARACTER	CHARVALX	Characteristic Value C...	CHAR(1)	<input type="checkbox"/>	Low ▼	<input type="checkbox"/>	<input type="checkbox"/>	
PROFL	Dangerous Goods Indicato	Select Path	MARA	PROFL	Dangerous Goods Indi...	CHAR(3)	<input type="checkbox"/>	▼	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

n. Click **Finish** to go to the Software components.

**Define Model MDG\_ARTICLE of Software Component ZMDG\_ART\_TREX**

1 Model Properties   2 Model Nodes   3 Node Relations   **4 Model Requests**   5 Node Response   6 Operational Data Provider

< Previous   Next >   Cancel   **Finish**   Save

**Requests of 'MDG\_ARTICLE'**

Here you can define how users can access data of the model. For application models and virtual models it is possible to generate a default request that can be used for search. You can change this request or add other requests. The request attributes can be chosen from any node of any model that is linked directly or indirectly to the model.

Generate Default Request   Create   Delete   Where-Used

*Name	*Description	Default Request
DEFAULT		<input checked="" type="radio"/>
		<input type="radio"/>
		<input type="radio"/>
		<input type="radio"/>

- o. Go to the **Administration Cockpit** and select **Create**.
  - i. Select the new software component **ZMDG\_ART\_TREX** and search for the template **MATERIAL**.
  - ii. After locating the template, create the connector for the **Enterprise Search**.

**Create Search Object Connector**

Select a Software Component

\* Software Component: MDG for Retail Article - TREX

**Connector Models**

Select connector models for which you want to create connectors. This function is intended for creating new connectors only. Therefore, models for which connectors have already been created cannot be processed here.

Create Connector   material   Find

Model	Description
MATERIAL	Material
MATKL	Material Group

- iii. Click **Refresh** and check that the new software component of the connectors is **ZMDG\_ART\_TREX**.

Here you can monitor and administrate search object connectors.

**Search Object Connectors**

Refresh   Create   Delete   Actions   System Settings   Model   Modeler

Status: Prepared (11)   Other: All (11)   Find in table   Find

Connector Name	Connector ID	Modified	Search	Analytics	Status
Access Control Context	RST100-ACCESS_CONTROL_CTX~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Document Info Record	RST100-DOCUM_INFO_REC~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
ESH Personal Searchterm Statistics	RST100-ESH_SEARCHTERM_PERS~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Engineering Change Order	RST100-ENGIN_CHANGE_ORDER~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
<b>Material</b>	<b>RST100-MATERIAL~</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<b>Prepared</b>
Material Group	RST100-MATKL~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Production (Material) Bill of Material	RST100-PRODUCTION_MBOM~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Search Category	RST100-ESH_CATEGORY~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Search Connector	RST100-ESH_CONNECTOR~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Search Software Component	RST100-ESH_SWC~	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared

**Details of "Material"**

General   Schedules   Job Log   Categories   Ranking Dimensions   Administration

Connector Name: Material   Edit

Connector ID: RST100-MATERIAL~

Connector Type: Embedded Search

Model Name: Material

Model: MATERIAL

Node Name:

**Software Component: ZMDG\_ART\_TREX**

Search Provider: RSTCLNT100

Status: Prepared

Connector Name Modified: ☐

Package: MGA

- p. Repeat the previous step to create the connector for staging area.

**Create Search Object Connector**

**Select a Software Component**

\* Software Component: MDG-A Trex

**Connector Models**

Select connector models for which you want to create connectors. This function is intended for creating new connectors only. Therefore, models for which connectors have already been created cannot be processed here.

Create Connector Find

Model	Description
MDG_ARTICLE	MDG-A TEMPLATE FOR STAGING AREA
MDG_BUSINESS_PARTNER	Business Partner template for MDG

The connectors are now visible with the status "preparing" and or "prepared".

- q. Select the **Material** connector and from the **Actions** menu choose **Schedule Indexing**.
  - i. On the new screen choose **Show Input Form**.
  - ii. Choose the option for immediate indexing and the recurrence period. You can also activate real-time indexing if the sizing, parameters, and performance of the system allow this.
  - iii. Select **All object types** and choose **Copy Settings**.  
This action copies the default settings from the input form to all object types. The status of the connector is changed to Indexing.

**SAP Connector Administration Cockpit**

✓ Scheduling of indexes has been canceled

Here you can monitor and administrate search object connectors.

**Search Object Connectors**

Status: All (8) Refresh Create Delete Actions Find System Settings Model Modeler

Connector Name	Cor	Actions	Modified	Search	Analytics	Status
MDG-A- TREX MODEL FOR STAGING AREA	WR	Activate Deactivate Update Reset	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Material	WR	Prepare Indexing <b>Schedule Indexing</b> Continue Indexing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Material Group	WR		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared
Purchase Info Record	WR		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Prepared

**Schedule Indexing for "Material"**

Define indexing schedules for the object types of this connector and its dependent connectors. Enter values directly in the table or use the input form.

Hide Input Form

You may use this form to conveniently define settings for multiple object types in the table below.

**Start Time**

☒ Start Immediately Start Date: Start Time: 00:00:00

**Recurrence Period**

☐ Real-Time Indexing Months: 00 Weeks: 00 Days: 000 Hours: 01

**Indexing Mode**

Full Indexing Mode:

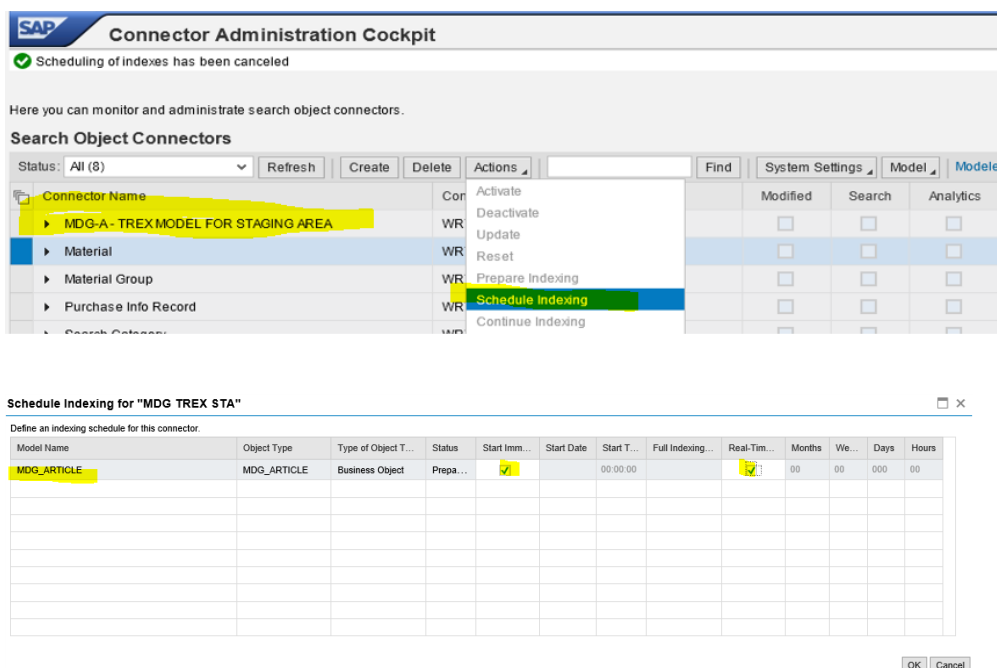
Copy Settings

Model Name	Object Type	Type of Object Ty...	Status	Start Imm...	Start Date	Start TI...	Full Indexing...	Real-Tim...	Months	We...	Days	Hours
Purchase Info Record	PURCHASE_INF...	Business Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Vendor account group	KTOKK	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Material type basic data	MTART_BASIC	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Plant Names	PLANT	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Country of Destination	LAND1_1	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Purchasing organization	EKORG	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Company code	BUKRS	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Distribution Channel	VTWEG	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Sales Organization	VKORG	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00
Scales group	SCAGR	Technical Object	Prepared	<input type="checkbox"/>		00:00:00	<input type="checkbox"/>	<input type="checkbox"/>	00	00	000	00

OK Cancel

Repeat the same steps for the MDG\_ARTICLE connector (for staging data).





**SAP Connector Administration Cockpit**

✓ Scheduling of indexes has been canceled

Here you can monitor and administrate search object connectors.

**Search Object Connectors**

Status: All (8) Refresh Create Delete Actions Find System Settings Model Models

Connector Name	Cor	Actions	Modified	Search	Analytics
MDG-A- TREXMODEL FOR STAGING AREA	WR	Activate Deactivate Update Reset Prepare Indexing Schedule Indexing Continue Indexing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material	WR		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Material Group	WR		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Purchase Info Record	WR		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Schedule indexing for "MDG TREX STA"**

Define an indexing schedule for this connector.

Model Name	Object Type	Type of Object T...	Status	Start Imm...	Start Date	Start T...	Full Indexing...	Real-Tim...	Months	We...	Days	Hours
MDG_ARTICLE	MDG_ARTICLE	Business Object	Prepa...	<input checked="" type="checkbox"/>		00:00:00		<input checked="" type="checkbox"/>	00	00	000	00

OK Cancel

- r. Ensure authorization indexing.  
Enterprise Search requires its own authorizations. Authorizations for all MDG users must be indexed on the **Enterprise Search** system. The system writes every new or changed user as an entry into the table `ESH_AU_USR_UPD` that contains the user IDs which are changed since the last indexing of the technical object type `USER_AUTHORITY`.  
The object type `USER_AUTHORITY` and other object types, which do not support real-time indexing need to be regularly scheduled for indexing on the Enterprise Search system. The object type `USER_AUTHORITY` can be found in the connector Material. You cannot enable real-time indexing for `USER_AUTHORITY`.

Once indexing is complete the connectors should have the status `Active`.

**Note:**

If the connector for staging area fails the indexing, proceed to point [Verify Data Quality and Search and then re-start the indexing process for this particular connector.](#)

4. Use the report **ESH\_TEST\_SEARCH** to verify the search function.
  - a. In the **Search Scope** section, enter a **Connector ID**.
  - b. Enter default in the **Request** field and execute the report.
    - The connector `MATERIAL` returns the active Article Master data.
    - The connector created for business object type **DRF\_0017** returns the inactive article master data. At least one active change request of type `AR*` needs to exist with the Article assigned to it. Otherwise, the system displays a message that the selected search provider does not exist during the search and in the duplicate check of any change request where this is relevant.

For more information about TREX, see [Configuration of the TREX Security Settings \[External\]](#).

## Search Engine Service

If you are running a central SAP NetWeaver Enterprise Search system and you connect other SAP NetWeaver systems with Embedded Search to the central system, follow the steps as described in Customizing for SAP NetWeaver under **Search > Search Engine Service**.

## 3.6. Verifying Data Quality, Search Settings and Duplicate Check

### Hana Search Verification and HA Duplicate Check Configuration:

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 entities

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

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**

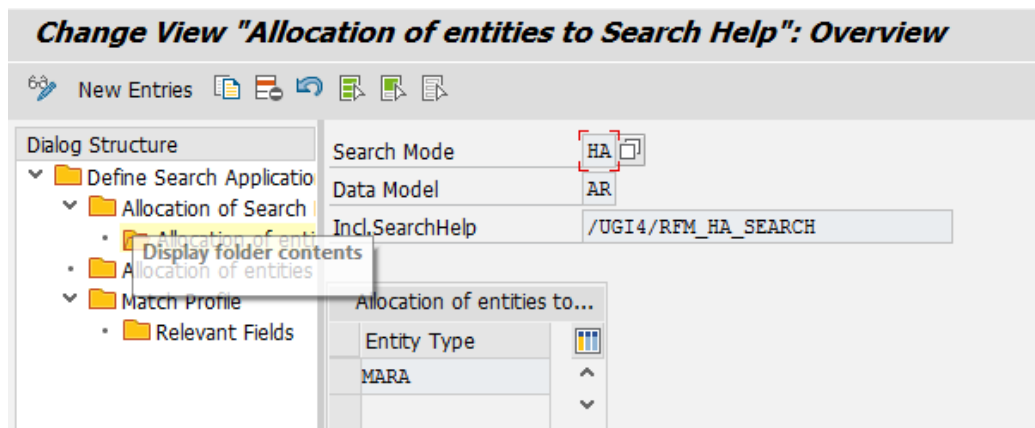
New Entries

Search Mode: HA

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	MM1STTEST	MM1stTest	

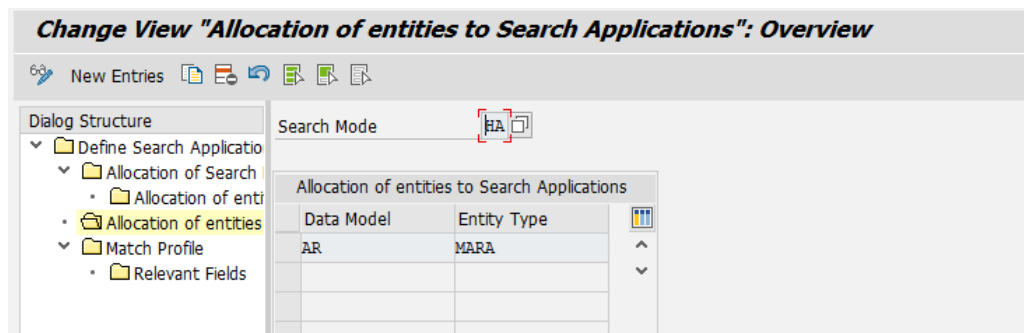
- c. As part of Standard, Main Entity is allocated to the Search help, Follow the below Mentioned Screen shot for verifying the same.

Field	Description
Search mode	HA
Data Model	AR
Incl. SearchHelp	/UGI4/RFM_HA_SEARCH
Entity type	MARA

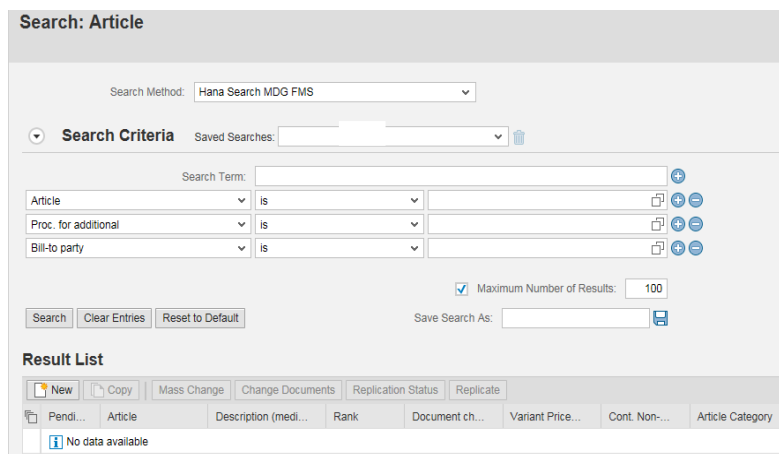


- d. As part of Standard Main Entity is allocated to the Search Application, Follow the below given table and screenshot for verifying the same.

Field	Description
Search mode	HA
Data Model	AR
Entity Type	MARA

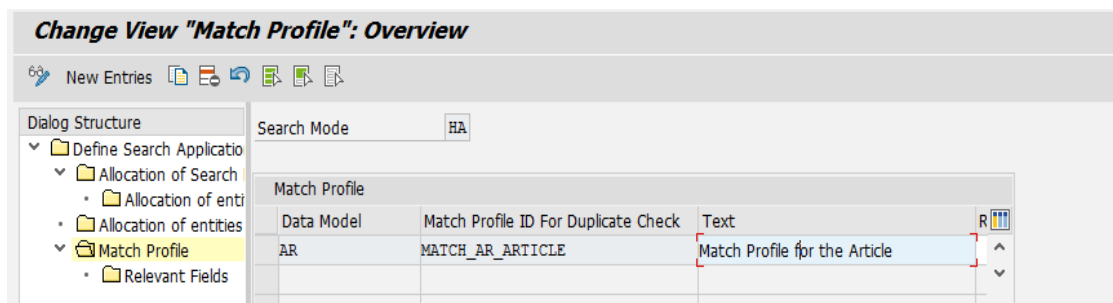


- e. Choose HANA Search MDG RFM from *Search Method* → *Select any Parameters (Optional)* from the *Search Criteria* like *Article*, *Article Cat.* Etc., → *Click Search*.



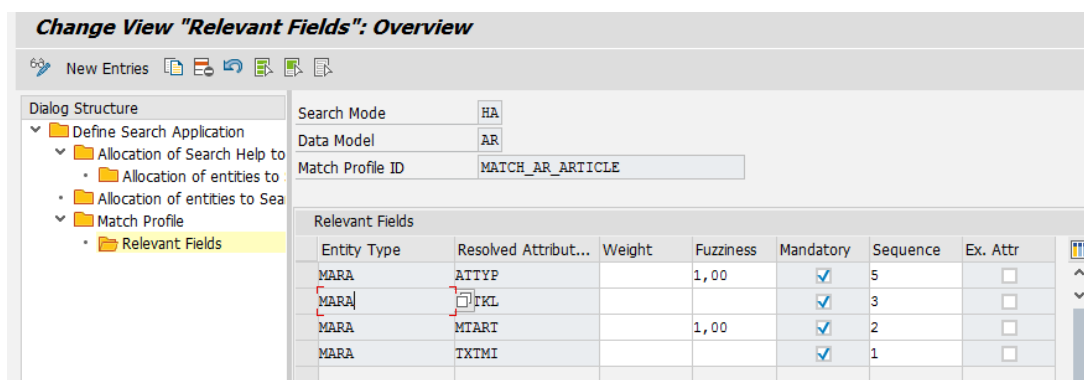
## 2. Configure the Duplicate Check for HANA search

- a. Select the Search Mode 'HA' by Navigating to **Master Data Governance** **General Settings** **Data Quality and Search** **Search and Duplicate Check** **Define Search Application**
- b. 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

### Change View "Maintenance View for Duplicate Check Mode of Data Model"



#### 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"/>

## Enterprise Search (TREX) Verification and ES Duplicate Check Configuration

In the delivered standard, the **SAP NetWeaver Enterprise Search** is used for MDG-RFM. In this step, you can verify the following:

- Existence of entry **ES** and **Freeform**, and **Fuzzy** 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)
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 type="checkbox"/>	Enterprise Search
HA	CL_MDG_HDB_SEARCH	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 for *Master Data Governance* under **General Settings** > **Data Quality and Search** > **Define Search Applications**.

- The pre-delivered Match Profile for the **AR** data model is **MATCH\_AR\_ARTICLE**. You can find this Match Profile in Customizing for Master Data Governance under **General Settings** > **Data Quality and Search** > **Search and Duplicate Check** > **Define Search Applications**.

#### Note:

If you want, you can now define your matching fields for calculating the potential duplicates and matching values.

- Configure the Duplicate Check

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* ► *Configure Duplicate Check for Entity Types*.. For search mode **ES** and data model **AR** select the field **MP based UI**. Thresholds are not considered.

You can configure this check in Customizing for Master Data Governance under ► *Data Quality and Search* ► *Define Search Applications* ► *Configure Duplicate Check for Entity Types* ..

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

### 3.7. Configuring Change Request Settings

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*.

## 3.8. Configuring Variant Splitter

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

For example: Black-XS, White-L.

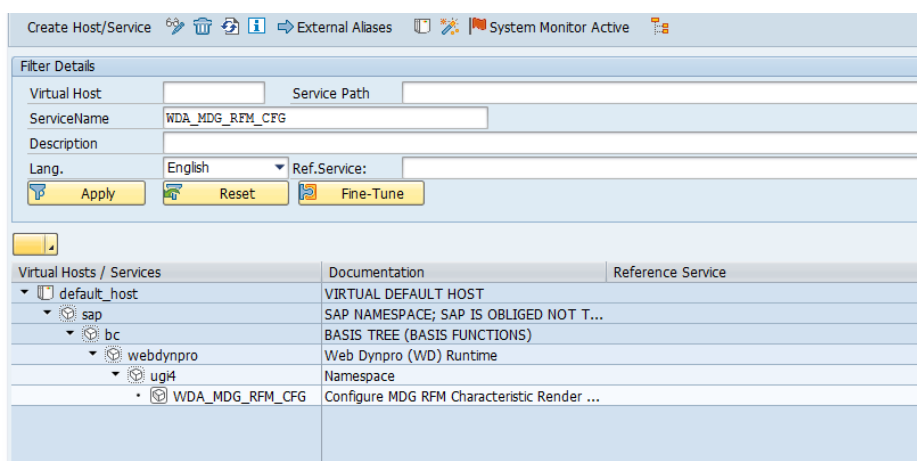
After the installation of PAT file, activate the SICF service: WDA\_MDG\_RFM\_CFG

### Note:

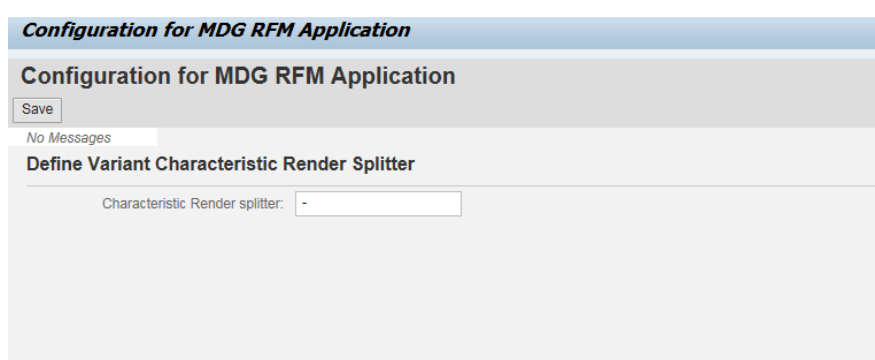
All the CRs should be activated and there should not be any staging data while maintaining the Splitter by the transaction /UGI4/MDG\_RFM\_CFG

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**”.







2. Maintained the Splitter by using the transaction code “/UGI4/MDG\_RFM\_CFG”.



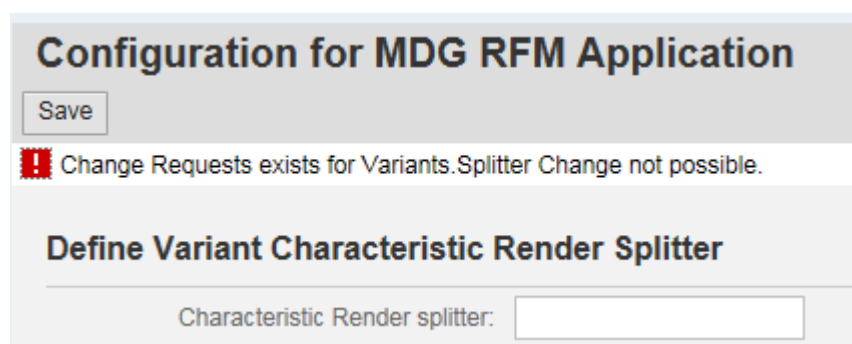
3. When no splitter maintained, below error shall be populated on the MDG screens.

 **Characteristic splitter is not maintained - [Display Help](#)**

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

[Display Message Log](#)

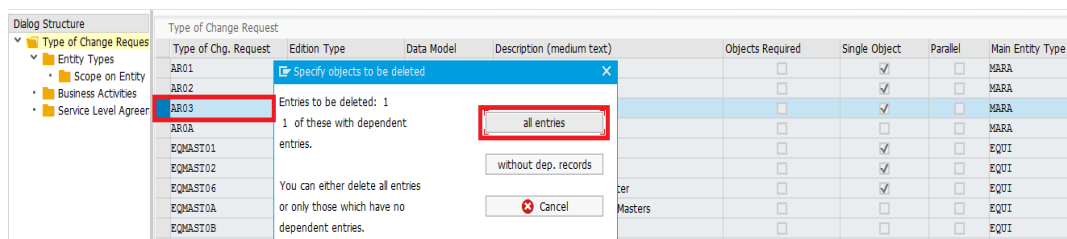
4. When the staging data is not cleared or activated, below error shall be populated on activation of splitter by the transaction code “/UGI4/MDG\_RFM\_CFG”.



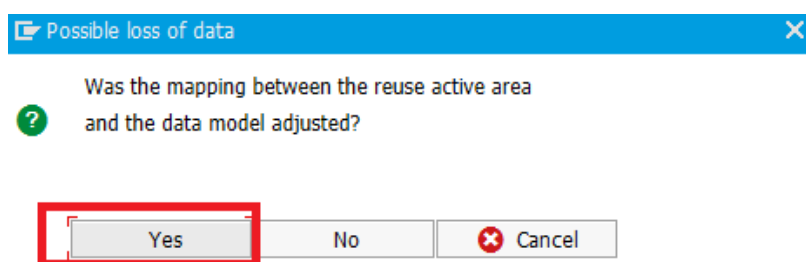
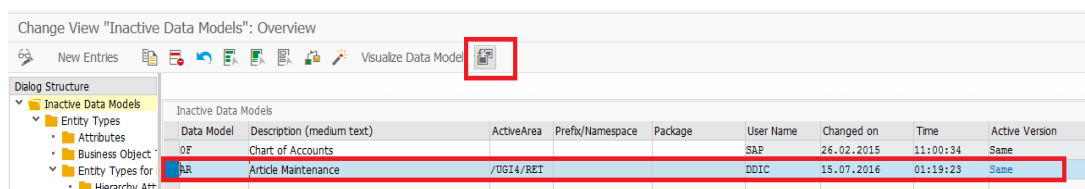
### 3.9. Deploying MDG RFM 9.0 when MDG RFM 8.0 is already present

- a. 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.

- b. After MDGRFM900 is deployed, proceed to delete **CRTYPE AR03** under customizing *MDGIMG->General Settings->Process Modelling->Change Requests->Create Change Request Type*:
- Select AR03
  - Click **Delete** button,
  - Select **All Entries** (which deletes all dependent entries too).



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



### 3.10. 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**

New Entries

Event Type Linkages							
Object Category	ObjectType	Event	Receiver Type	Type linka...	Enable ev...	Status	
B0R Object T...	BUS2209	SAVED	WS14500019	<input type="checkbox"/>	<input type="checkbox"/>	No errors	▼
B0R Object T...	BUS2250	ACTIVATED	ACTIVATED	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No errors	▼
B0R Object T...	BUS2250	CREATED		<input checked="" type="checkbox"/>	<input type="checkbox"/>	No errors	▼
B0R Object T...	BUS2250	ROLLED_BACK	ROLLED_BACK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	No errors	▼
B0R Object T...	BUS4101	SAVED	WS10000192	<input type="checkbox"/>	<input type="checkbox"/>	No errors	▼
B0R Object T...	BUS4101	SAVED	WS10000205	<input type="checkbox"/>	<input 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*.

1. Go to application component CA-MDG-AF and choose **Assign Agents**.
2. 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 F	TS 60807945	Background task
Check it is single age	TS 60807946	Background task
Get Process Pattern	TS 60807947	Background task
Set Completion Time	TS 60807948	Background task
Synch. System Meth	TS 60807949	Background task
Get Change Request	TS 60807950	Background task
Default Handler	TS 60807951	Background task
Parallel Step Result M	TS 60807952	Background task
Get Agent Group	TS 60807953	Background task
<b>Dialog Processing</b>	<b>TS 60807954</b>	<b>General Task</b>
Get Parallel Change F	TS 60807955	Background task
Get Recipients of Exp	TS 60807956	Background task
Assign Action Code	TS 60807957	Background task
Clear Step-Action Ta	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.

### 3.11. Setting Up Rule-Based Workflow

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

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:

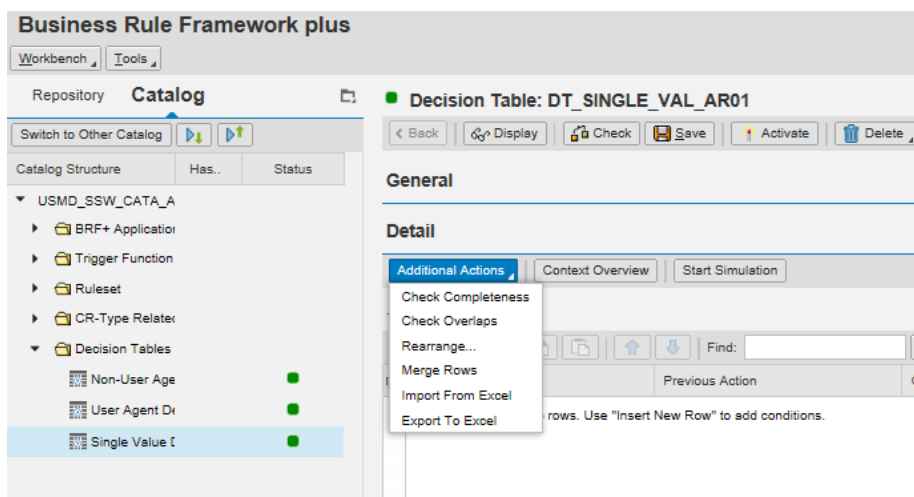
Change Request Type	Change Request Step	Keys	Successful Validation Required	Description
AR01	0	Empty	Empty	Processing
AR01	80	Empty	Empty	Approver
AR01	90	Empty	Checked	Final Check
AR01	91	Empty	Empty	Activation
AR01	92	Empty	Empty	Revision/Cancel BG
AR01	93	Empty	Empty	Validation
AR01	95	Empty	Empty	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**.

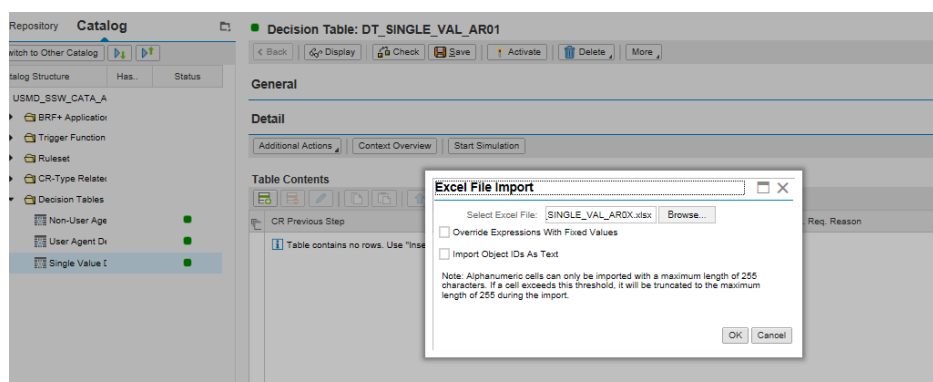


The system displays **Export File Import** popup.

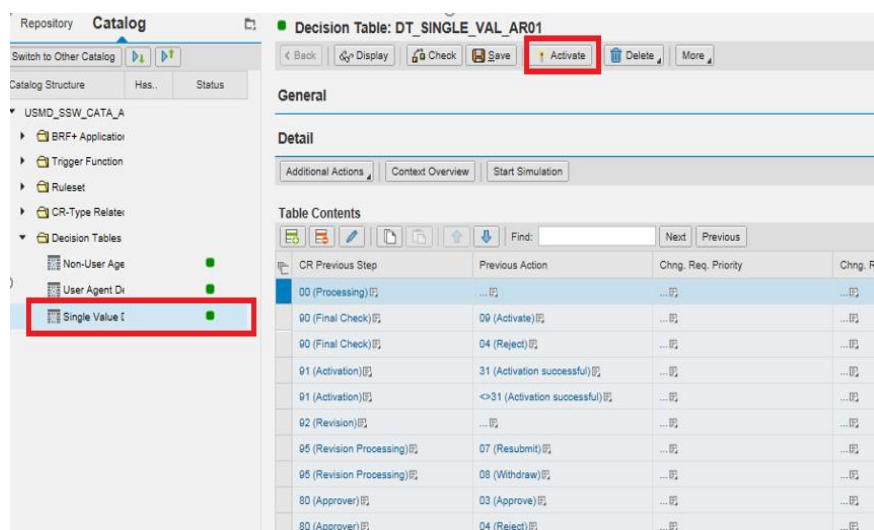
- i. Click Browse, upload file DT\_SINGLE\_VAL\_AR0X, and click **OK**.

**Note:**

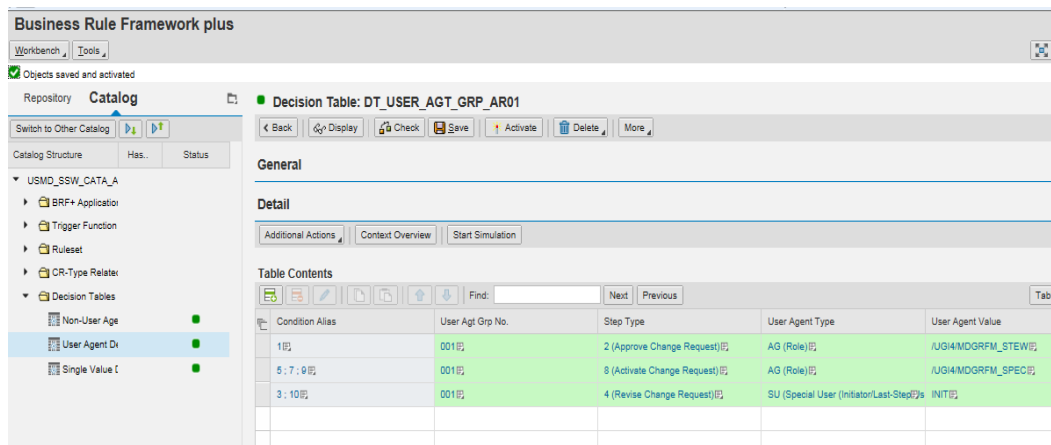
Do not change this file manually, upload the file as it is, and after the upload you can change data in your table.



- ii. Activate the Table:



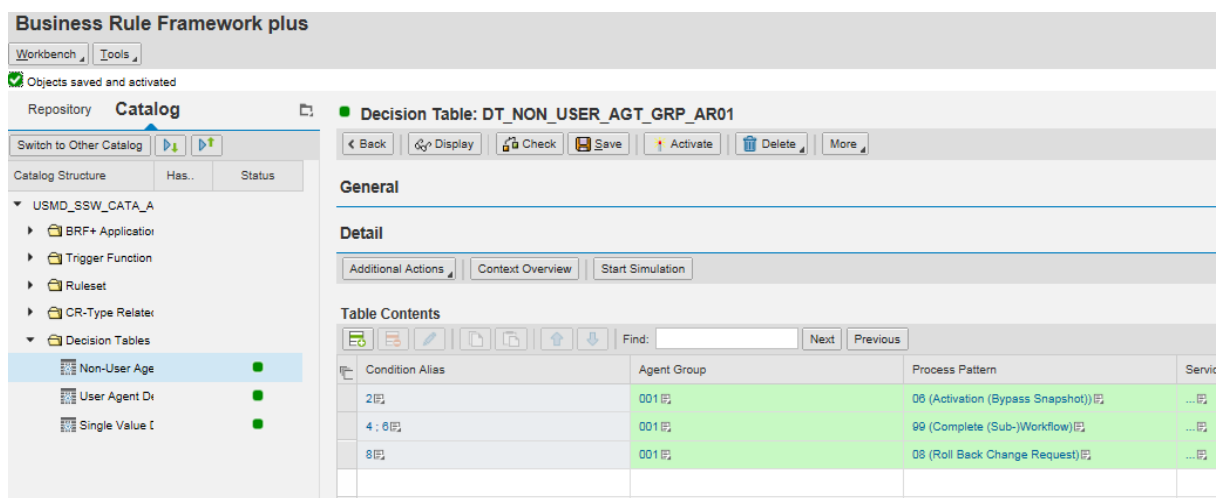
3. From the left pane, select the User Agent Decision Table
  - a. Click **Edit**, then in Additional Actions and click **Import from Excel** and activate the Table.
  - b. Upload File DT\_USER\_AGT\_GRP\_AR0X.  
**Note:**  
 Do not change this file manually, and upload the file as it is. After uploading the file, you can change data in your Table.



The screenshot shows the 'Business Rule Framework plus' interface. On the left, the 'Catalog' pane is expanded to 'Decision Tables', where 'User Agent Decision Table' is selected. The main area displays the 'Decision Table: DT\_USER\_AGT\_GRP\_AR01' configuration. The 'Table Contents' tab is active, showing a table with the following data:

Condition Alias	User Agt Grp No.	Step Type	User Agent Type	User Agent Value
1	001	2 (Approve Change Request)	AG (Role)	/UG4/MDGRFM_STEW
5 : 7 : 9	001	8 (Activate Change Request)	AG (Role)	/UG4/MDGRFM_SPEC
3 : 10	001	4 (Revise Change Request)	SU (Special User (InitiatorLast-Step))	INIT

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 File DT\_NON\_USER\_AGT\_GRP\_AR0X.  
**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.



The screenshot shows the 'Business Rule Framework plus' interface. On the left, the 'Catalog' pane is expanded to 'Decision Tables', where 'User Agent Decision Table' is selected. The main area displays the 'Decision Table: DT\_NON\_USER\_AGT\_GRP\_AR01' configuration. The 'Table Contents' tab is active, showing a table with the following data:

Condition Alias	Agent Group	Process Pattern	Service
2	001	06 (Activation (Bypass Snapshot))	...
4 : 6	001	99 (Complete (Sub-)Workflow)	...
8	001	08 (Roll Back Change Request)	...

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.

## **i Note**

If you extend the **BRFplus** 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 **BRFplus**. 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)
80 (Approver)	03 (Approve)	9	90 (Final Check)	02 (Changes to be executed)
80 (Approver)	04 (Reject)	10	95 (Revision Processing)	10 (To Revise: Perform Changes)
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)

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	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.

### 3.12. 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.

### 3.13. 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 Infoprovder 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

### 3.14. 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 **PFCC** 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 **PFCC** 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 **PFEG** (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.

## 3.15. Choosing UI Theme to run SAP Master Data Governance

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: [dropdown]

Change Request Edit

General Notes Attachments

General Data

Change Request ID: 6

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 10:06:32 IGONZALEZ

Basic Data Edit Additional Data Components Listing Characteristics

Article: @@6

Article Category: 00 Single material

Groupings

Merchandise Category: DRFMC01 DRFMC01

Industry sector: 1 Retail

Product Hierarchy: [icon]

Authorization Group: [text field]

Pricing Ref. Article: [text field]

Price Band Category: [text field]

Article Type: HAWA Trading Goods

Division: [icon]

Ext. Material Group: [icon]

ABC Indicator: [icon]

Fashion Grade: [icon]

General Data

Valuation Class: 3100 Trading goods

Country of origin: [text field]

Discount in kind: [dropdown]

Region of origin: [icon]

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]

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 TOPS

Industry sector: 1 Retail

Product Hierarchy: 00002 Drinks

Authorization Group: [text field]

Pricing Ref. Article: [text field]

Price Band Category: 1 Middle price band

Article Type: HAWA Trading Goods

Division: 00 Division

Ext. Material Group: [icon]

ABC Indicator: B

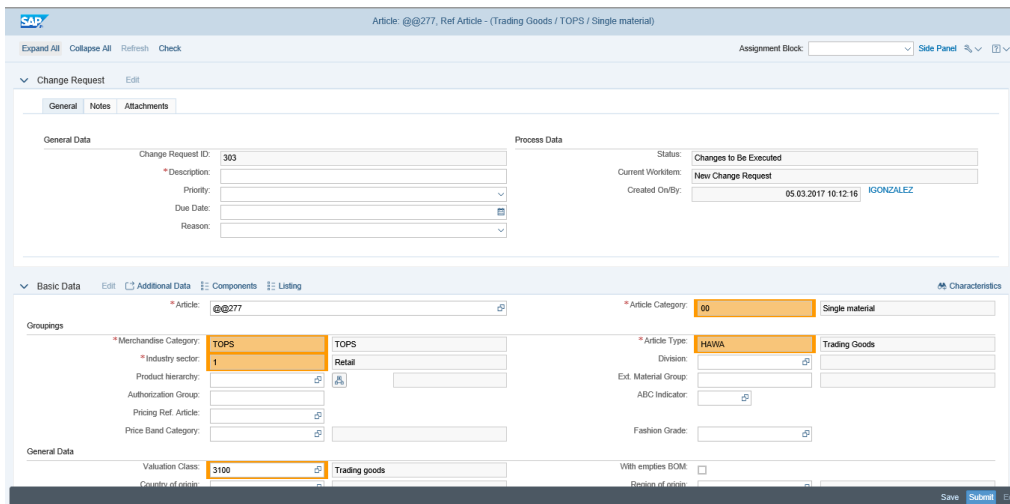
Fashion Grade: FG1

General Data

Valuation Class: 3100 Trading goods

Discount in kind: [dropdown]

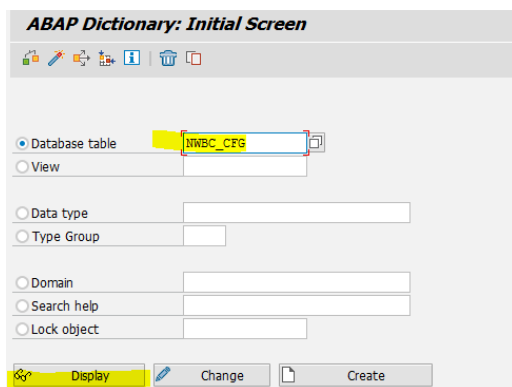
If you are running MDG for RFM 900 in S/4 HANA, SAP\_BELIZE theme is available with a FIORI 2.0 as displayed below.



The screenshot shows the SAP Change Request form for Article @@277. The form is divided into several tabs: General, Notes, and Attachments. The General tab is active, showing fields for Change Request ID (303), Description, Priority, Due Date, Reason, Status (Changes to Be Executed), Current WorkItem (New Change Request), and Created On/By (05.03.2017 10:12:16, ISONZALEZ). Below this, the Basic Data tab is active, showing fields for Article Category (00), Article Type (HANA), Division, Ext. Material Group, ABC Indicator, Fashion Grade, Valuation Class (3100), and Country of origin.

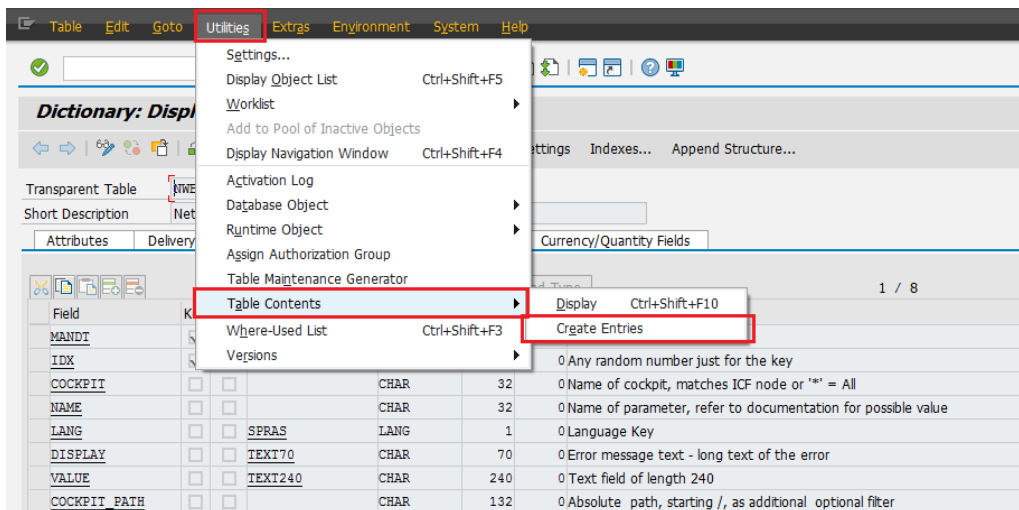
To choose and run the required Theme, perform the following actions.

1. Go to Transaction **SE11** and access to table NWBC\_CFG and click **Display**.



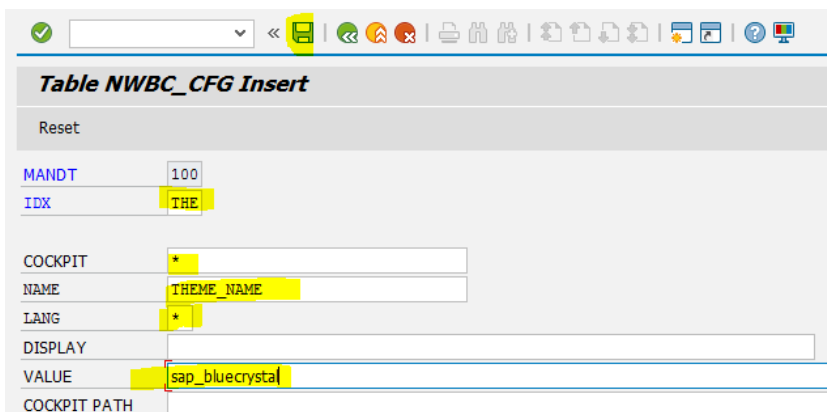
The screenshot shows the ABAP Dictionary: Initial Screen. The Database table radio button is selected, and the table name NWBC\_CFG is entered in the text field. The Display button is highlighted in yellow.

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



The screenshot shows the ABAP Dictionary: Table Contents screen. The Utilities menu is open, and the Table Contents option is selected. The Create Entries option is highlighted in the sub-menu. The table NWBC\_CFG is displayed with fields and their data types.

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



**Table NWBC\_CFG Insert**

Reset

MANDT 100

IDX THE

COCKPIT \*

NAME THEME\_NAME

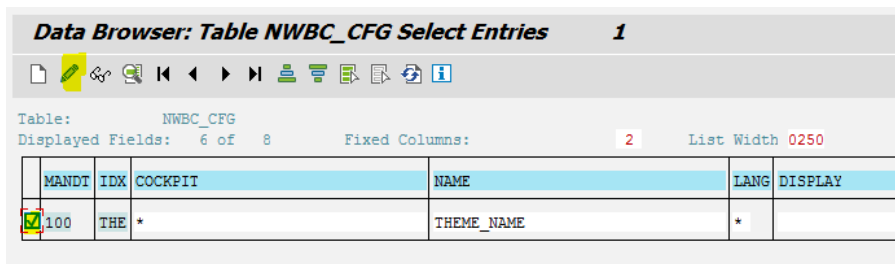
LANG \*

DISPLAY

VALUE sap\_bluecrystal

COCKPIT PATH

- IDX: THE
  - COCKPIT: THEME\_NAME
  - LANG: \*
  - VALUE: \*
- b. If you want to change the Theme in future, perform the following.
- i. Access the table
  - ii. Edit the row



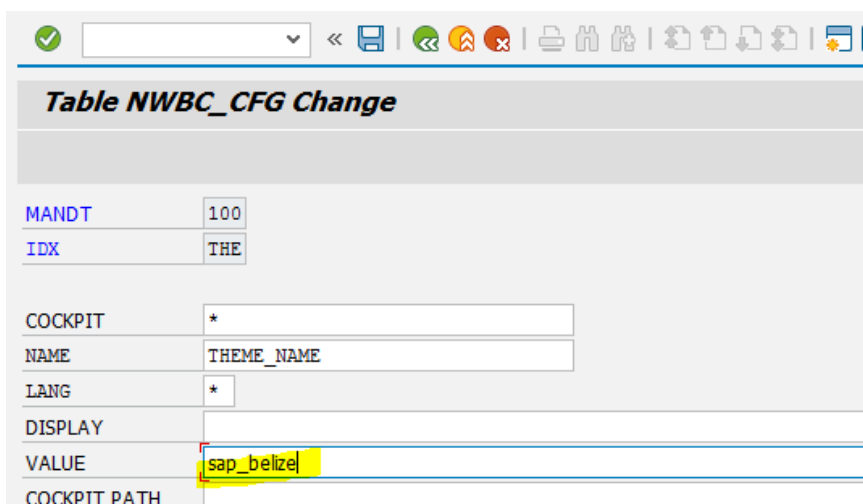
**Data Browser: Table NWBC\_CFG Select Entries 1**

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

### 3.16. Final Steps

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