Configuration Guide for EAM Service Master Solutions by Utopia for S/4HANA

Release SVM 1909

Document History

The following tables provide an overview of the most important document changes and approvals.

Version	Date	Description	Name
1.0	29-11-2019	Initial version	Sireesha Cheemakurthi, Saripella Varma

Approval History

Version	Date	Description	Name
1.0	29-11-2019	Initial version	Lyle Snyder

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1. Introduction

This document provides the information you require to set up SAP Master Data Governance (MDG) for EAM Solutions by Utopia for Service Master for S/4HANA.

1.1. Purpose

This Configuration Guide provides the information you require to set up SAP Master Data Governance (MDG) for Enterprise Asset Management (EAM) Solutions by Utopia for Service Master.

1.2. Target Audience

This guide is intended for business users who will be configuring Service Master for MDG EAM Solutions by Utopia.

2. Prerequisites/Before You Start

Before you start using Service Master in the suite SAP Master Data Governance (MDG) for EAM Solutions for MDG by Utopia, make sure that the following prerequisites are fulfilled.

The following topics are discussed in the section:

- Business Functions
- Set Up Workflow
- Set Up Search
- Import MDG Content for Service Master
- Adjust Profile Parameters
- User Roles
- Web Dynpro Applications
- Number Ranges
- Prerequisite Notes
- Activate BC-Sets for Data Model U2
- Prerequisite BC-Set Activation
- Prerequisite Visual Harmonization of UIs

2.1. Business Functions

Use the Transaction Code (t-code): SFW5 to activate the following business functions:

- 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 Feature Set (MDG_FOUNDATION_5)
- Master Data Governance, Generic Functions 8.0 (MDG_FOUNDATION_6)
- Master Data Governance, Generic Functions 9.0 (MDG_FOUNDATION_7)
- Master Data Governance, Generic Functions 9.1 (MDG_FOUNDATION_8)
- Master Data Governance, Generic Functions 9.2 (MDG_FOUNDATION_9)
- Master Data Governance, Generic Functions 1909 (MDG_FOUNDATION_10)
  This business function is relevant for S/4H 1909 only

The following business function need to be activated for Side Panel:

- ERP_CA_SIDEPANEL (always on)

To have BCV queries executed successfully, ensure that the following business functions are activated in the system, where MDG EAM 1909 is installed.

- /BCV/MAIN (FND, Business Context Viewer Main Application)
- /BCV/MAIN_1 (FND, Business Context Viewer Main Application 2)
- /BCV/NWBC_SIDEPANEL (FND, Business Context Viewer NWBC Side Panel (Reversible)

Note

Before you activate the business functions, ensure that you have the administration authorization for MDG. The required authorization objects are delivered with the authorization role SAP_MDG_ADMIN. In t-code PFCG, it is recommended to create a copy of this role and assign the relevant authorization values. For the authorization object USMD_DM Data Model, assign the values for the authorization field USMD_MODEL Data Model (for example U2) and the values for the authorization activity ACTVT Activity (for example 01: Create or generate, or 02: Change).

2.2. Set Up Workflow

To use the workflow processes for Service Master MDG EAM Solutions by Utopia, you have defined general settings for SAP Business Workflow [Extern] in Customizing for SAP NetWeaver under Application Server > Business Management > SAP Business Workflow.

To activate the workflow features, use the semi-automated configuration in t-code SWU3. You can also access these settings in Customizing under SAP NetWeaver > Application Server > Business Management > SAP Business Workflow > Maintain Standard Settings.

Use the following mandatory steps while maintaining settings:

- When configuring the RFC destination, you need superuser authorization to create the default SAP_WFRT user.
- Regenerate the authorization profile for SAP_ALL or include the USMD* authorization objects into the authorizations of the user SAP_WFRT.
- For the Check Entries from HR Control Tables section, you may need to execute report RHSOBJCH in t-code SE38 and keep the default settings.

  Note

  Select all the table entries and click “Adjust” button.
- Maintain the prefix numbers for the standard objects.
- You do not need to maintain the Web Server node and Guided Procedures section.

2.3. Set Up Search

This release of Service Master in MDG EAM Solutions by Utopia uses the standard MDG database search. The database search is already enabled within the MDG System. No further setup action is required.

- SAP HANA-based search (side-by-side) connects MDG from any database to an SAP HANA-based system for search but does not include classification search.

2.4. Import MDG Content for Service Master

NA

2.5. Adjust Profile Parameters

Use t-code RZ11 to check and adjust the following profile parameters:

- Ensure that the profile parameter size for the Shared Objects Memory is correct. Verify that the value for parameter ABAP/shared_objects_size_MB is at least 300 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.

Finally, check that the hostname is fully qualified for parameter icm/host_name_full.

2.6. User Roles

To successfully conduct the next steps in the configuration process, you must have the following user roles assigned in the t-code PFCG:

- SAP_MDGA_MENU – Master Data Governance: Analytics
- SAP_MDG_ADMIN – Master Data Governance: Administrator

This role contains authorization 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, it is recommended that this role is split into several new roles and each new role is provided with a subset of the authorizations for this role. This approach ensures that the users can complete the tasks they are responsible for, thereby reducing the risk of critical errors.

Authorizations for the MDG transactions are not included in this role.

- /UGI1/_MDGPROC_ALLUSR – Standard User Authorizations
- /UGI1/_MDGPROC_MENU –Master Data Governance for Procurement Menu
- /UGI1/_MDGPROC_REQ – Master Data Governance for Procurement Solution (Service Master): Requestor
- /UGI1/_MDGPROC_SPEC – Master Data Governance for Procurement Solution (Service Master): Specialist
- /UGI1/_MDGPROC_STEW – Master Data Governance for Procurement Solution (Service Master): Steward

Note

Refer Utopia SVM 1909 Fiori Implementation Guide Fiori guide for Fiori roles.

2.6.1. Additional Changes to User Roles

Note

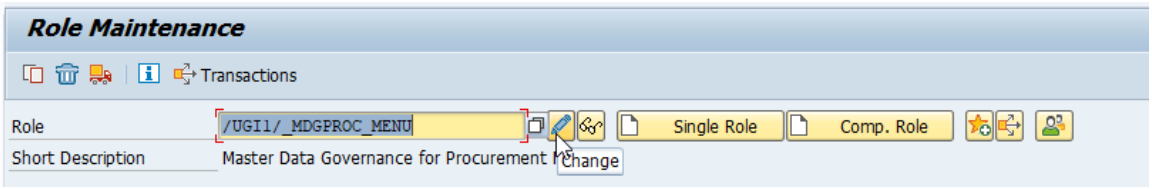
- To control the display of the WebDynpro Application window in the same tab, use the following settings:

  PFCG > enter Role Name > Select the Menu tab > Select WebDynpro Application node > Other Node Details tab > Select Standard for Launch Application.
- To control the display of the WebDynpro Application window in the new window, use the following settings:

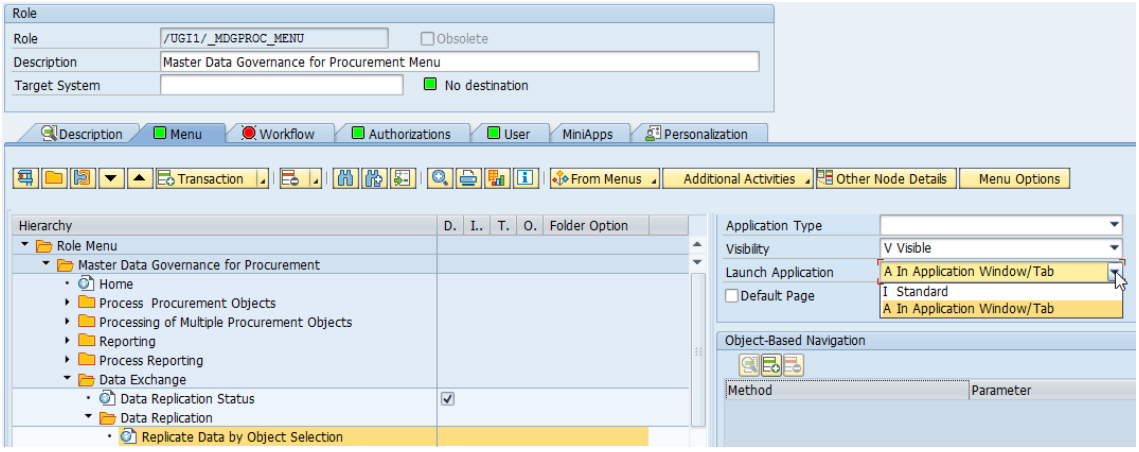
  PFCG > enter Role Name> Select the Menu tab > Select WebDynpro Application node > Other Node Details tab > Select In Application Window/Tab for Launch Application.

Do the following changes to the User Role /UGI1/_MDGPROC_MENU, if required according to the Note given above.

1. Go to t-code PFCG. Enter /UGI1/_MDGPROC_MENU role and click on change icon  .



2. Under Menu tab, expand Master Data Governance for Procurement > Data Exchange > Data Replication > Select Replicate Data by Object Selection > click on Other Node Details and scroll down > Update the parameter value Launch Application with “I Standard” or “A In Application Window/Tab” and save the role.



2.7. Web Dynpro Applications

For security concerns, the services delivered for Web Dynpro applications are delivered in an inactive state. You must activate the services you want to use. Use t-code SICF to activate the services. For a detailed list of the relevant services, see Services to be Activated for Web Dynpro Applications [Extern]. Apply the settings of the column MDG-CO (Custom Object).

2.8. Number Ranges

Review and maintain the number range of the object /UGI1/MDSM using the t-code SNRO. In addition, maintain the grouping for service master category.

2.9. Prerequisite Notes

The following OSS notes are mandatory while using HANA search functionality.

SAP Note	Description
2867218	**MDG-BP/0G - Dump during Hana search**

Note

Check if the note is valid for your SAP instance and patch level.

2.10. Activate BC-Sets for Data Model U2

Note: Use Expert Mode to activate the following BC-Sets if you cannot activate with the Default Mode.

Activate the following BC-Sets for Data Model U2:

1. For SVM Data Model entries, go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_SM_DATAMODEL_920.
   Then go to MDGIMG transaction code, click on Edit Data Model, select the data model – U2, and activate ( ).
2. For SVM Data Model entries for 1909 release, go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_SM_DATAMODEL_1909.
   Then go to MDGIMG transaction code, click on Edit Data Model, select the data model – U2, and activate ( ).

   Note

   For upgrade scenario, you must trigger the job to adjust the data model.
   Go to t-code MDGIMG > General Settings > Data Modelling > Edit Data Model > Select U2 data model and press the “Adjust Staging Area of Linked Change Requests” icon at the top to trigger the job.

2.10.1. Post Data Model Activation

Use the following steps to activate the data model U2:

1. After activation, check if the status is “Same” in the Active Version column.
2. Assign an internal key.
   To support temporary key assignment, run the activity in Customizing for Master Data Governance under > General Settings > Data Modeling > Define Prefixes for Internal Key Assignment.

   Note

   In SVM 1909 for Service Master, Maintaining prefix is mandatory for object types as mentioned in the following table since we support both internal and external keys assignment for the Service Master object.

Data Model	Entity Type	Prefixes for Internal Key Assignment
U2	SERVICE	ALL SAP Characters are allowed

   Note

   In SVM 1909 for Service Master, authorizations cannot be defined. Instead, the existing back-end authorizations are reused.

2.10.2. Additional BC Sets for Service Master

After activation of the U2 Data Model, you need to activate the following BC-Sets to generate the SVM Data Model-Specific structures, Package Group, UI Field Properties, DRF Entries, Key Mapping.

- Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_SM_CONFIG_920.
- For 1909 release, go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_SM_UI_FLD_PROP_1909.

Note: Use Expert Mode to activate the following BC-Sets if you cannot activate with the Default Mode.

Other customizing activities in data modeling are only relevant for the Service Master domain if your data model needs to be enhanced. For more information, see Enhancement of Master Data Governance Content.

2.11. Prerequisite BC-Set Activation

To ensure that IDocs triggered by Data Replication Framework for Service Master objects are posted successfully in target system in either MDG HUB or Co-deploy scenarios, activation of the following BC-Set in target system is mandatory, provided the UGI3 software component version is installed. For UGI3 dependency details please refer to installation guide.

- Go to SCPR20, enter /UGI3/EAM_SM_INB_PROCESSCODE for BC-Set input field and choose ( ) to activate.
- Go to SCPR20 and activate ( ) BC-Set /UGI3/INB_SM_ASSIGN_IDOC_MSG_TYP
- For Additional IDOC configuration (for sending only the changed IDOCs), go to SCPR20 and activate ( ) BC-Set /UGI3/SM_IDOC_ADDL_CONFIG_1909.

2.11.1. BC-Set for Side Panel and BCV Query

The following BC-Set activation is relevant for customers, who would like to implement Side Panel Add - On display in the UI screen.

- Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_EAM_SM_BCV_740.
- Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_EAM_SM_BCV_QUERYCACHE.

2.11.2. BC-Set for HANA Search

The following BC-Sets need to be activated if the customer is willing to enable HANA search for SVM Object:

- Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_EAM_VC_HDB_PP_FMAP_740 (Join and Mapping Information)
- For 1909 Release, Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_SM_VC_HDB_PP_FMAP_1909
- Go to SCPR20 and activate ( ) /UGI1/MDG_EAM_VC_MDGHDB001_740 (HANA Search View)
- For 1909 Release, Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_SM_HDB_VIEW_1909
- Generate the HANA Search view with t-code MDG_HDB_GEN_UI (Refer section Set Up Search for more details)
- The BC Set /UGI1/MDG_EAM_VC_DQ_SEARCH_C_740 need to be activated after performing the Section 3.8 and before Section 3.8.1. Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_EAM_VC_DQ_SEARCH_C_740 (Match profiles and Search Configuration)

2.11.3. BC-Set for Data Import Framework

If the customers would like to use Data Import Framework for EAM objects, activate the following BC-Set:

- Go to SCPR20 and activate ( ) BC-Set /UGI1/MDG_EAM_DIF_730 (Utopia MDG EAM Data Transfer BC-Set)
- For 1909 Release, Go to SCPR20 and activate ( ) BC-Set - /UGI1/MDG_SM_DIF_1909

2.12. Prerequisite Visual Harmonization of UIs

To apply Belize themes for customers using EAM, use the following instructions:

For SAP S/4HANA1809 SP02:

1. Go to the package “USMD_GENERIC_BOLUI” that contains the Web Dynpro application using t-code SE80.

   In the package structure, locate Web Dynpro FPM Application “USMD_OVP_GEN”.

   Execute the following steps for the application:

   a. Select the application and switch to tab "Parameters".

   b. Switch to edit mode.

   c. Locate parameter "WDDISPLAYLOADINGPAGE" and set its value to 2. Add the parameter if required.

   d. Save the changes.

2. Perform the following additional step to get Belize theme.

   a. Run the t-code /UI2/NWBC_CFG_SAP and maintain an entry as shown below.

   Path filter: *

   Parameter Name: THEME

   Parameter value: sap_belize

For SAP S/4HANA 1909:

1. Run the t-code /UI2/NWBC_CFG_SAP and maintain an entry as shown below.

   Path filter: *
   Parameter Name: THEME
   Parameter value: sap_belize

Note

For both the system versions, a developer access key and object key will be required if changes are required.

Note

S4 HANA 1909 Local Parameter "WDDISPLAYLOADINGPAGE” of Web Dynpro FPM Application “USMD_OVP_GEN” should be 1. If you upgrade from previous release follow the instructions for SAP S/4HANA 1809 above, however set value to 1.

3. Configuration Process

3.1. More Information

- For information on functional restrictions, see SAP Note: 2837648
- SAP Master Data Governance Security Guide
- SAP Master and Master Update Guide

3.2. Impact of Service Master Customizing

Some standard customizing activities in External Services Management are relevant for Master Data Governance for Service Master under the Define Field Selection nodes, all activities that change the field properties affect the field properties in Master Data Governance for Service Master. The field properties that are hidden, displayed, mandatory, and optional impact the Master Data Governance for Service Master fields.

- Under the Basic Data node, all activities impact Master Data Governance for Service Master. Example settings include Service Category, Division, Valuation Class, Tax indicator.
- Under the Time Management node, all activities impact Master Data Governance for Service Master Example settings include the Wage type, Hierarchy service no.

3.3. Activate BC-Sets for Change Request Types

Note: Use Expert Mode to activate the followings BC-Sets if you cannot activate with the Default Mode.

For Create, Change, and Mark for Deletion and process Service Master Objects, there are example Change Request types available.

Ensure that the following steps are defined in the configuration before activation of the BC-Set:

Master Data Governance > General Settings > Process Modeling > Workflow > Other MDG Workflow > Define Change Request Step Numbers.

Workflow	Step	Description	Keys	Validation
WS54300020	0	Submission		
WS54300020	1	Processing	X	
WS54300020	2	Final Check		X
WS54300020	3	Revision		

3.3.1. Activate the following BC-Sets for Service Master

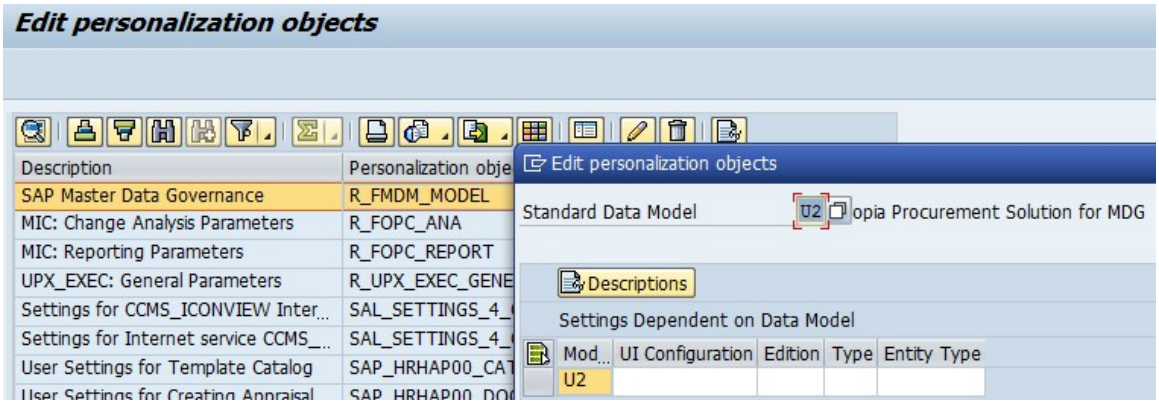
1. Run the BC-Set activation process (t-code SCPR20) for the BC-Sets:
   - /UGI1/MDG_PROC_CREQUEST_01 – Utopia PROC Solutions for MDG Change Request Types – Service Master
   - /UGI1/MDG_PROC_PQM_SM - Utopia PROC Solutions for MDG - Process Quality Metrics
2. Choose Activate ( ) for each BC-Set.
3. At the end of the generation, you can ignore the warnings on missing workflow processor. Choose the option “Save Changes (Despite Warnings)”.

3.4. GenIL (Generic Interaction Layer) Component Adjustments

A New GenIL Component is added for the uSERV.

Check for the Component /UGI/2 in the t-code GENIL_MODEL_BROWSER in display mode, to make sure the Component is present and shows no errors.

Ensure that the Data Model U2 is the Standard Data Model for the Personalization Parameters R_FMDM_MODEL. Use t-code SPERS_MAINT or personalization for UserID (t-code SU01) to check the parameter. If it is not the default, enter U2 as the default and save.



3.5. Navigating User Interface

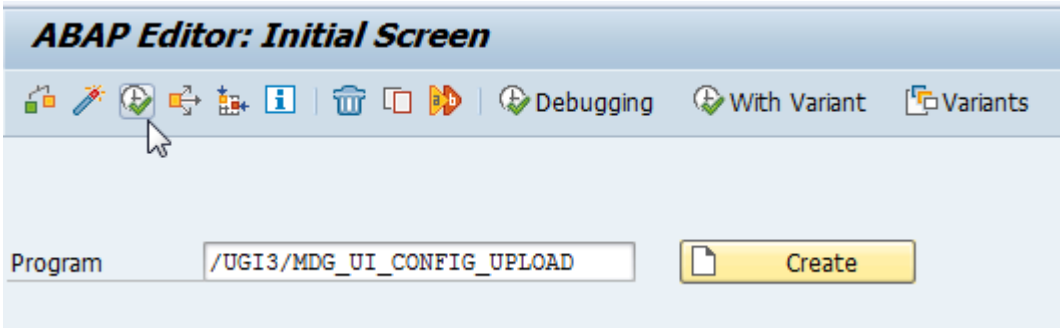
3.5.1. Link Log. Actions with UI Application and Bus. Act.: Standard Definition

Utopia has provided a report that can be leveraged to read the embedded Excel files here and update the configuration tables directly. The Logical actions with UI Application and Business Activity configuration entries can also be entered or verified manually by opening the respective Excel file and copying to the SAP MDGIMG configuration.

Note

The Utopia report for uploading the configuration table entries does not provide an option to load directly into a transport. Saving the configuration entries into a transport can be achieved manually after the load by selecting Table View >Transport.

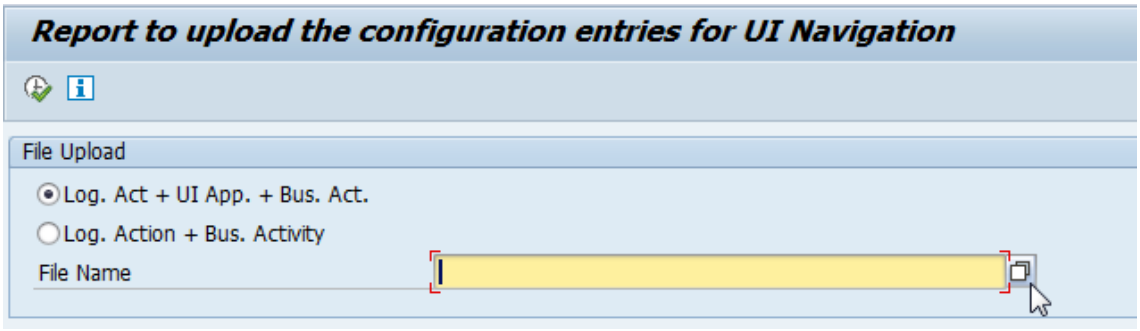
1. To run the report; run t-code SE38, then enter report /UGI3/MDG_UI_CONFIG_UPLOAD and execute or press F8.



2. Click on the file selection icon as indicated and navigate to where you stored the downloaded files from the relevant sections below for your implementation.

Note

Ensure that the relevant file is not open in another application, such as Excel before proceeding.



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

3.5.1.1. UI Navigation for Service Master

Run the report as described in section 3.5.1 above, using the Excel file below.

EAM SM Navigation Entries.xlsx

Verify Customizing in Master Data Governance under > General Settings > Process Modeling > Business Activities > Link Log. Actions with UI Application and Bus. Act. Standard Definition

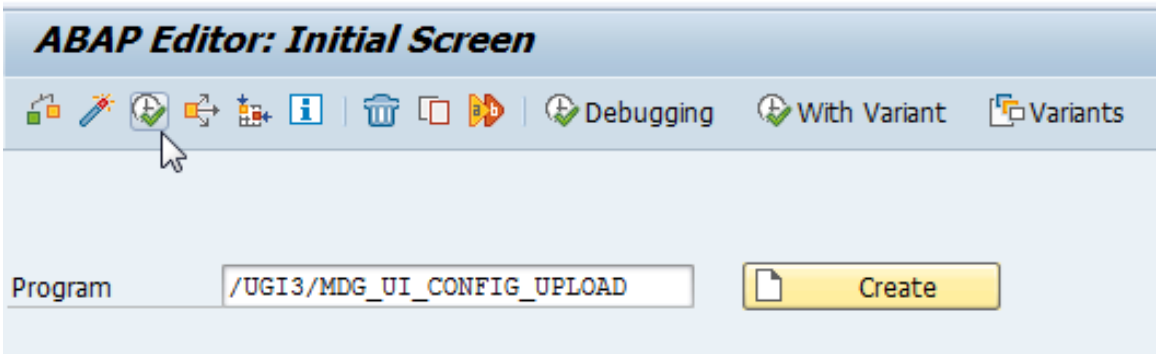
3.5.2. Link Logical Actions with Business Activity: Standard Definition

Utopia has provided a report that can be leveraged to read the embedded Excel files here and update the configuration tables directly. The Logical actions with Business Activity configuration entries can also be entered or verified manually by opening the respective Excel file and copying to the SAP MDGIMG configuration.

Note

The Utopia report for uploading the configuration table entries does not provide an option to load directly into a transport. Saving the configuration entries into a transport can be achieved manually after the load by selecting Table View >Transport.

1. To run the report; run t-code SE38, then enter report /UGI3/MDG_UI_CONFIG_UPLOAD and execute or press F8.

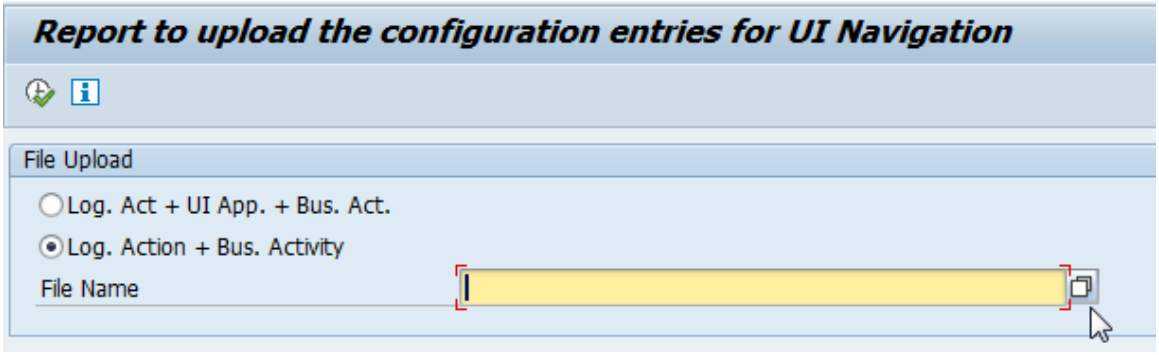


2. Select the “Log. Action + Bus. Activity” radio button.

3. Click on the file selection icon as indicated and navigate to where you stored the downloaded files from the relevant sections below for your implementation.

   Note

   Ensure that the relevant file is not open in another application, such as Excel before proceeding.



3.5.2.1. Logical Actions with Business Activity Linkage for Service Master

Run the report as described in section 3.5.2 above, using the Excel file below.

EAM SM Business Activity.xlsx

Verify Customizing in Master Data Governance under > General Settings > Process Modeling > Business Activities > Link Log. Actions with Bus. Act. Standard Definition

3.6. Verify UI Modeling (Optional)

UI configuration activities are only relevant if you want to change the UI or if the U2 data model has been enhanced.

In this Customizing activity, you can specify the reason and the location where the system hides the entity types for the data model U2.

Verify the pre-delivered field properties for the data model U2 in Customizing under General Settings > UI Modeling > Define Field Properties for UI.

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 data model U2 and the following Web Dynpro applications and related configurations:

Manage UI Configurations:

Application	Application Configuration	UI Configuration
USMD_OVP_GEN	/UGI1/USMD_U2_OVP_SERVICE	/UGI1/USMD_U2_SERVICE_OVP
USMD_SEARCH	/UGI1/USMD_SEARCH_SERVICE	/UGI1/USMD_SEARCH_OVP_SERVICE

3.7. Set Up 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

difference is in their capability to include classification data in the search. The following options are used to set up search:

- Database Search using the generic search provider interface must be configured manually and does not offer classification search.
- SAP HANA-based search (side-by-side) connects MDG from any database to an SAP HANA-based system for search but does not include classification search.

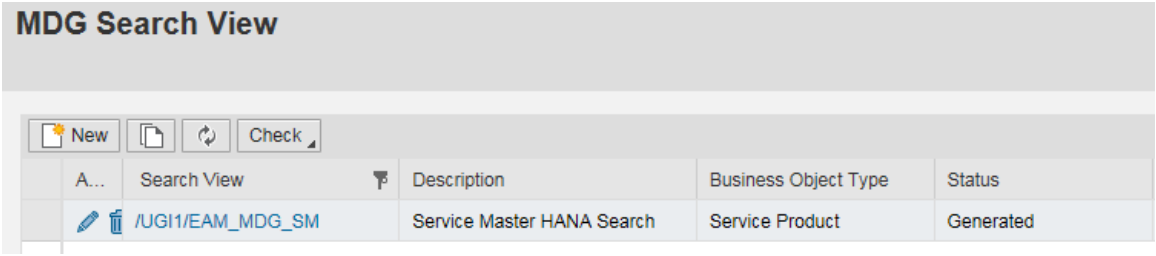
Scenario for SVM

- MDG SVM with HANA as primary database. This is considered as an ideal scenario with no Enterprise Search and no SLT Replication to the HANA secondary database. Everything in MDG system with the HDB as default: Hana Searches, Hana Duplicate Check, Analytics, HANA Drill-down Search.
- MDG SVM with HANA as secondary database.
- If SAP HANA is the primary database, it is not mandatory to maintain the database connection name neither the SLT settings, so you can follow the steps directly:

3.7.1. Create the Search View

List the following steps to create a search view:

1. To activate the already delivered in the product HANA Search View “/UGI1/EAM_MDG_SM”, Master Data Governance > General Settings > Data Quality and Search > Search and Duplicate Check > Create Search View.



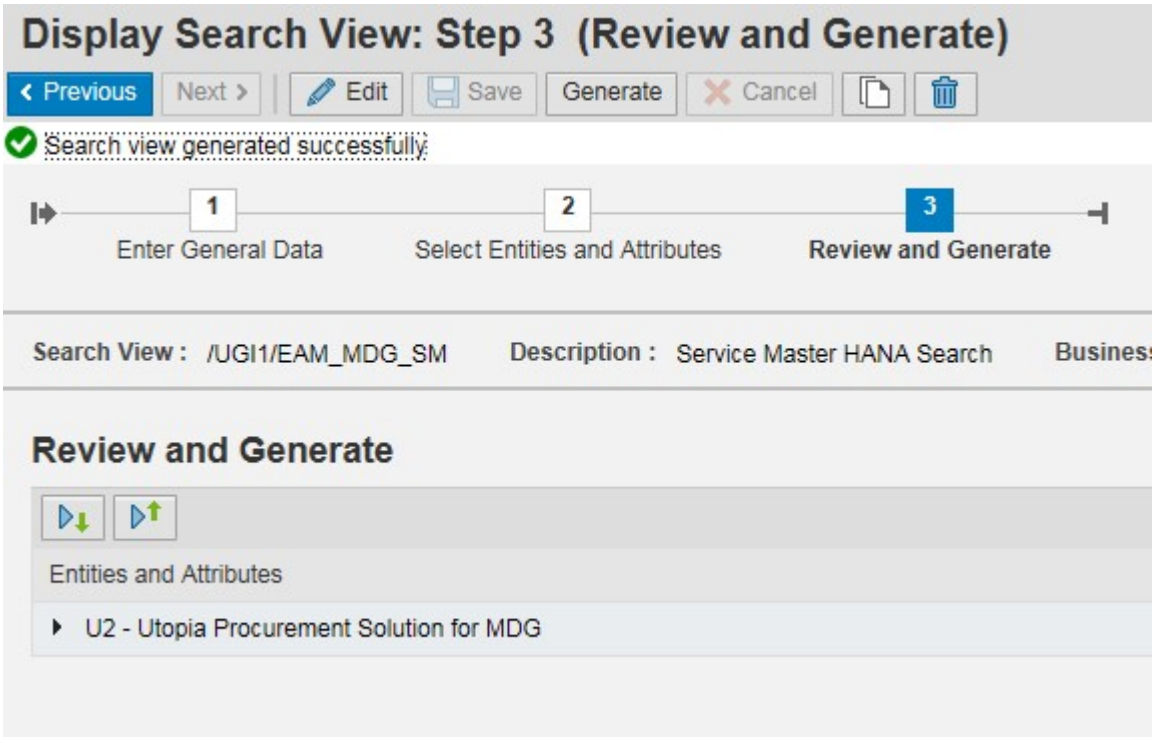
2. Click on Edit to activate the HANA Search View and provide the following to enter General Data.

Attributes	Values
Search View	/UGI1/EAM_MDG_SM
Description	Service Master HANA Search
Business Object Name	258
HANA Package	Package Name (It should be always saved in the customer Namespace Package)

Note

You can activate the Rule Set if you want to adjust your HANA Search later in the HANA Studio. With this, you specify the attribute characteristics like fuzziness, etc. for all the attributes. (The Ruleset is created to save the manual changes in the HANA Studio to avoid that the manual changes are not overwritten while generating the view).

3. Click on Next and select Entities and Attribute at the HANA database. By default, a few attribute and entity are selected.
4. Click on Next and Move to Review and Generate.
5. Click on Save.
6. Click on Generate in Review and Generate Step.

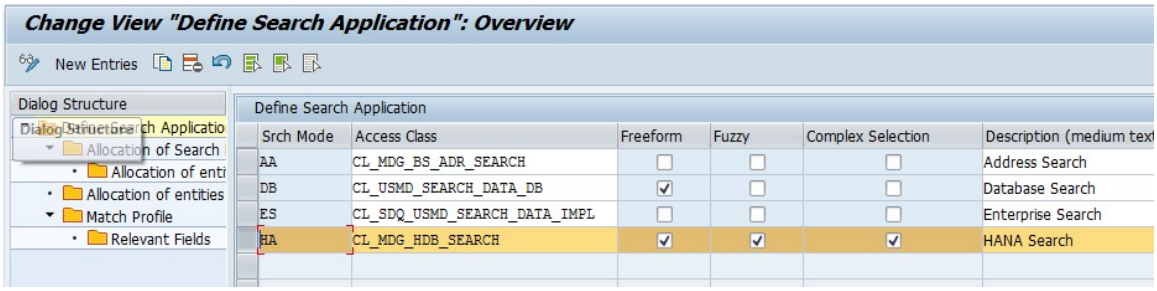


3.8. Verify Data Quality, Search Settings, and Duplicate Check

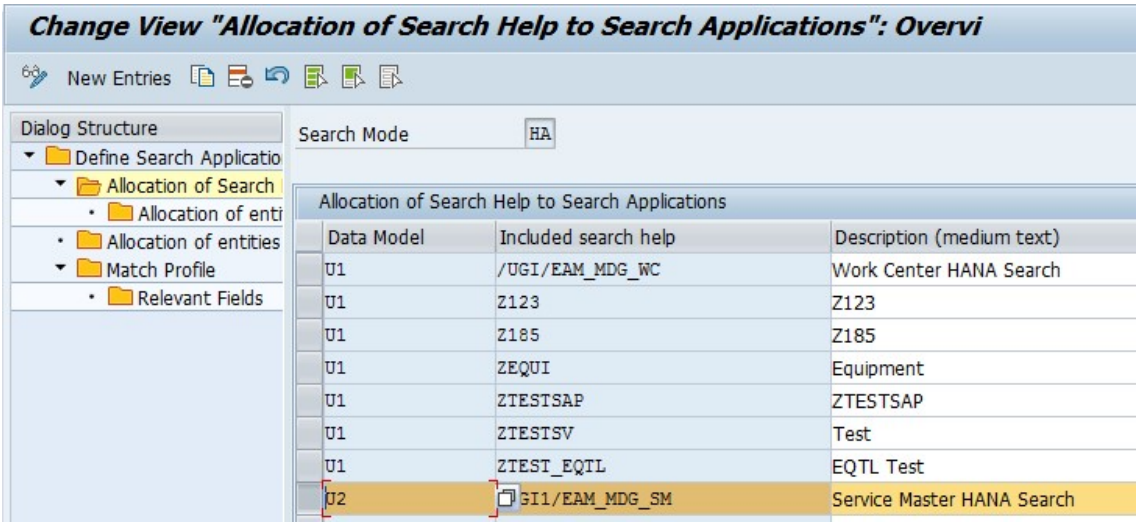
Use the following steps for HANA Search verification and HA Duplicate Check Configuration:

After Search View Generation, you can verify the search mode in the following steps:

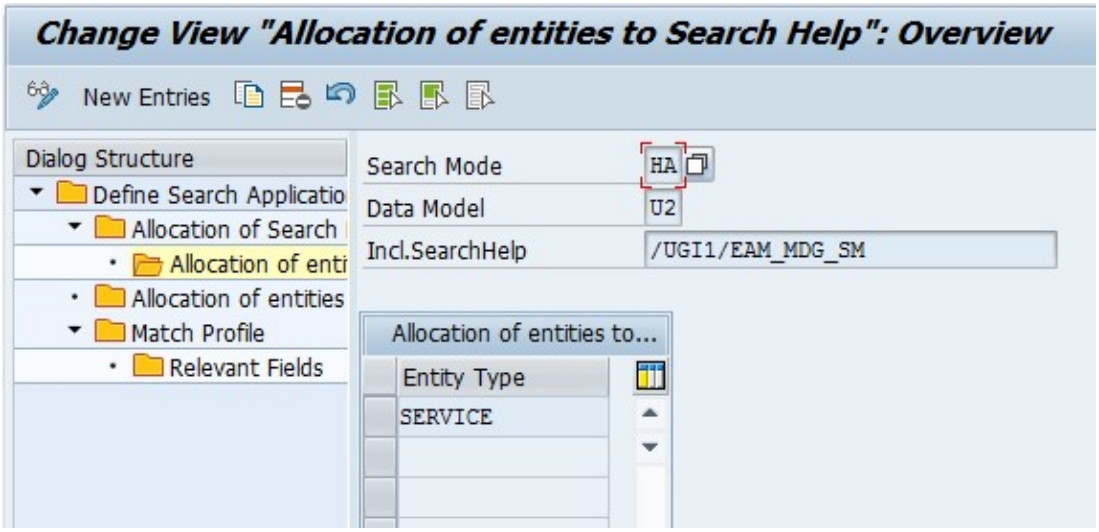
1. Existence of entry HA and that Freeform settings are activated if this feature is planned to be used.



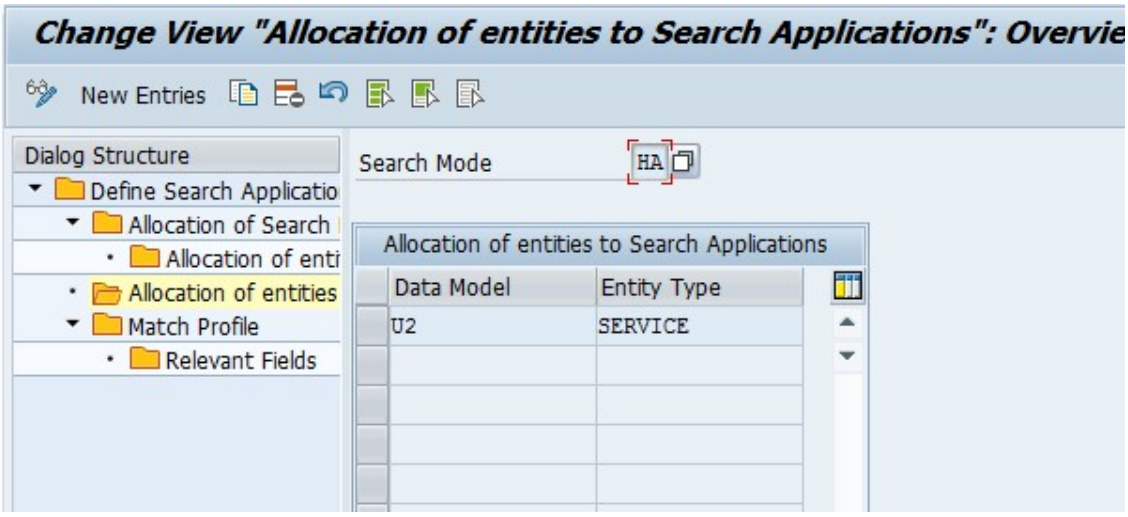
2. This entry cannot be removed or deactivated (E-class entry delivered by SAP). You can verify these settings in Customizing by Navigating to Master Data Governance > General Settings> Data Quality and Search > Search and Duplicate Check > Define Search Application.
   - Allocation of Search help '/UGI1/EAM_MDG_SM' to Search Application for Hana Search, you can verify the setting for Allocation of Search help to Search Application for Hana Search by navigating to:
3. Master Data Governance > General Settings > Data Quality and Search > Search and Duplicate Check > Define Search Application > Allocation of Search help to Search Application.



4. As part of Standard, Main Entity is allocated to the Search help. Refer the following screen to verify.



5. As a part of Standard Main Entity is allocated to the Search Application. Refer the following screen to verify.

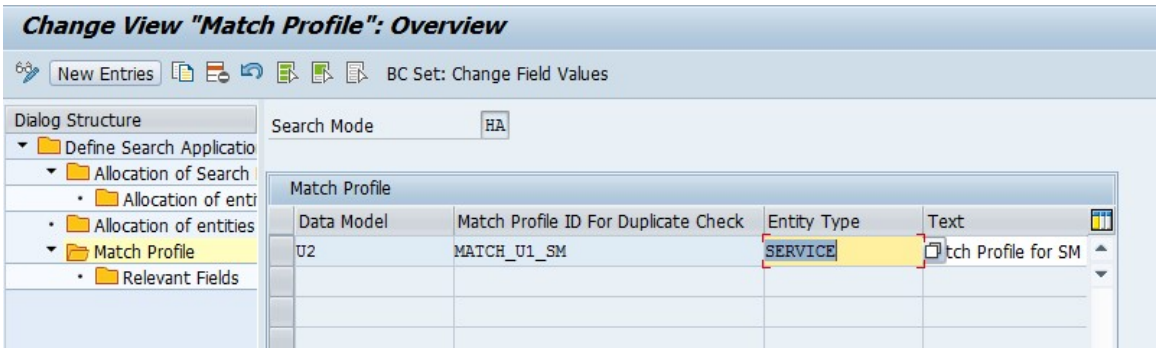


6. The Search is ready to run.
7. The Search view '/UGI1/EAM_MDG_SM' is delivered with BC-Sets as mentioned in section 2.11.2 :
    - /UGI1/MDG_EAM_VC_MDGHDB001_740
    - /UGI1/MDG_SM_HDB_VIEW_1909

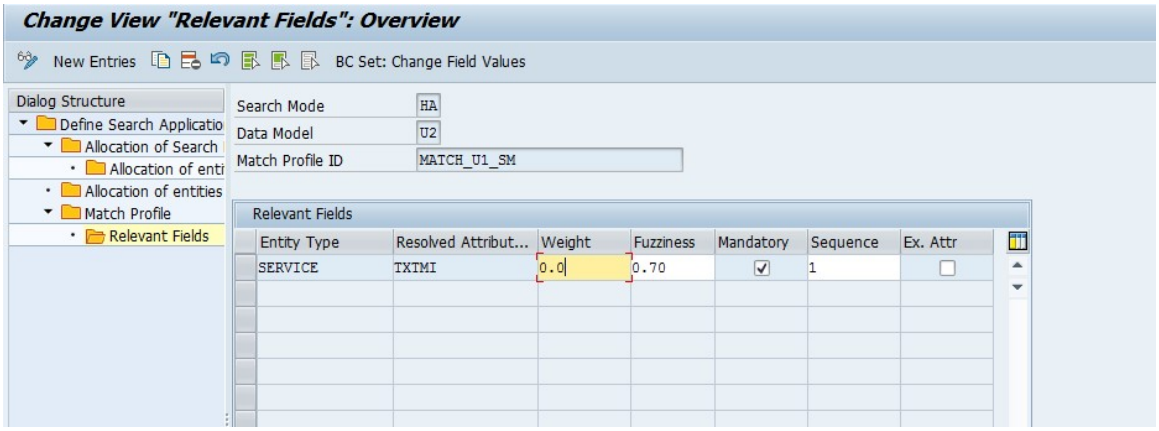
3.8.1. Configuration of the Duplicate Check for HANA Search

Use the following steps to configure Duplicate Check for HANA search:

1. Select the Search Mode 'HA' by Navigating to Master Data Governance > General Settings > Data Quality and Search > Search and Duplicate Check > Define Search Application.
2. After navigating, select the Search mode 'HA' and Click on the Match Profile.



3. If you want to run a duplicate check, assign the pre-delivered match profile MATCH_U1_SM or your own match profile to the data model U2 and the service entity type. Navigate to General Settings > Data Quality and Search > Search and Duplicate Check > Define Search Applications > Match Profile.
4. Duplicate Check relevant fields are added as per the standard delivery, follow the screen for verifying the same.



5. For activating the Duplicate Check 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.

   Note

   The configuration should be performed for all the entities to be enabled for HANA Duplicate Check.

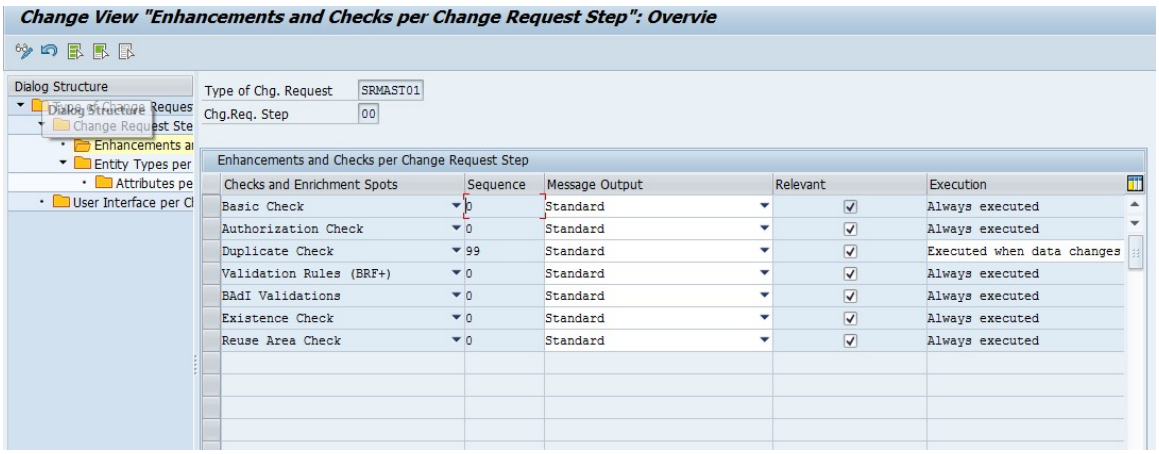
Data Model	Entity Type	Search Mode	Low Threshold	High Threshold	Match Profile ID for Duplicate Check	Included Search Help	MP Based UI
U2	SERVICE	HA	50,0	85,0	MATCH_U1_SM	/UGI1/EAM_MDG_SM	Yes

Table 1: Duplicate Check Mode of Data Model

6. Cross-check if the relevant checkbox for Duplicate check sequence 99 is checked or not.
   - Navigate to General Settings > Process Modeling > Change Requests > Configure Properties of Change Request Step.

Note

The Configuration must be performed for all the create change steps which are to be enabled for HANA Duplicate Check.



The Match Profile MATCH_U1_SM is available with BC-Set.

3.9. Verify Remaining Process Modeling Settings

Depending on your company's requirements, you might want to adjust and enhance the default change request values loaded in step 2 above.

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.

3.9.1. Review Change Request Status

Review and/or define the statuses of the change requests, and the 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 status are required for the SAP standard process. The missing should data should be maintained manually.

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
13	In Business Partner Screening	No Processing
99	No Status Set	No Processing

3.9.2. Check Business Activities

Check that the following business activities are in your system and that they are assigned to the default data model U2.

3.9.2.1. Service Master

1. USM1 Create Service Master
2. USM2 Change Service Master
3. USM3 Display Service Master
4. USM6 Mark Service Master for Deletion
5. USMA Mass Update Service Master
6. USMB Import Service Master

For more information, see Customizing for Master Data Governance under General Settings > Process Modeling > Business Activities > Create Business Activity.

3.9.3. Verify the Change Request Types

1. Create new change request types for data model U2 or validate after import using business configuration sets (BC-Sets).

   For more information, see Customizing for Master Data Governance under General Settings > Process Modeling > Change Requests > Create Change Request Type.

   The following table shows the proposed Change Request types for data model U2. Only the relevant columns are included.

Change Request Type	Data Model	Description	Single Object	Main Entity Type	Workflow
SRMAST01	U2	Create Service	Yes	SERVICE	WS54300020
SRMAST02	U2	Process Service Master	Yes	SERVICE	WS54300020
SRMAST06	U2	Delete Mark Service Master	Yes	SERVICE	WS54300020
SRMAST0A	U2	Process Multiple Service Masters	No	SERVICE	WS54300020
SRMAST0B	U2	Import Service Master	No	SERVICE	WS54300020

2. The standard workflow template used by Service Master for MDG EAM Solutions by Utopia is WS54300020. This template is a simple workflow which does not use BRF+ decision tables. Refer the workflow template in section Workflow Template WS54300020. The following settings should exist in the substructures of the change request types:

3.9.3.1. Service Master

- SRMAST01
  - Entity type: SERVICE
  - UI Config <leave empty>
  - Msg. Output: Standard
  - Business Activity: Create Service Master (USM1)
  - Service Level Agreement for Change Request Types: <leave empty>
- SRMAST02
  - Same as for SRMAST01
  - Business Activity: Change Service Master (USM2)
- SRMAST06
  - Same as for SRMAST01
  - Business Activity: Mark Service Master for Deletion (USM6)
- SRMAST0A
  - Same as for SRMAST01
  - Business Activity: Process Multiple Service Masters (USMA)
- SRMAST0B
  - Same as for SRMAST01
  - Business Activity: Import Service Master (USMB)

3. You can configure the properties of the Change Request steps. This is optional except for the Multiple-Record Processing change request types. For more information, see Customizing for Master Data Governance under General Settings > Process Modeling > Change Requests > Configure Properties of Change Request Step.
4. Optionally, 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.
5. For more information, see Customizing for Master Data Governance under General Settings > Process Modeling > Change Requests > Define Print Form for Change Requests.

3.10. Configure Workflow Tasks

As a prerequisite, you have made the necessary general settings for workflows and defined the organizational plan in Customizing for SAP NetWeaver > Application Server > Business Management > SAP Business Workflow.

Ensure that the active type linkages for Change Request (BUS2250) are set correctly. Follow the instructions in Customizing for MDG under General Settings > Process Modeling > Workflow > Activate Event Type Linkage.

For object type BUS2250 check that the Type Linkage Active indicator is active for the events CREATED, ACTIVATED, and ROLLED_BACK.

If entries do not exist, add them with the following values:

- Object Category: BOR Object Type
- Object Type: BUS2250

Event	CREATED	ACTIVATED	ROLLED_BACK
Receiver Type		ACTIVATED	ROLLED_BACK
Receiver Call	Function Module	Function Module	Function Module
Receiver Function Module	SWW_WI_CREATE_VIA_EVENT_IBF	MDG_BS_CC_CREQUEST_FINALIZED	MDG_BS_CC_CREQUEST_FINALIZED
Check Function Module			
Receiver Type Function Module	USMD_WF_RECEIVER_TYPE		
Destination of Receiver			
All others	Default value	Default value	Default value

In addition, check that the Enable Event Queue indicator is active for the events ACTIVATED, and ROLLED_BACK, but not for the event CREATED.

The following results are displayed:

Object Category	Obj. Type	Event	Receiver Typer	Type linkage	Enable event
BOR	BUS2250	ACTIVATED	ACTIVATED	X	X
BOR	BUS2250	CREATED		X	
BOR	BUS2250	ROLLED_BACK	ROLLED_BACK	X	X

The standard workflow template used by Master Data Governance for EAM is WS54300020.

Optionally, the rule-based workflow can be used where the template is WS60800086.

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

- Go to application component CA-MDG-AF and choose Assign Agents.
- Set the Dialog Processing (TS 60807954) task as a General Task, if not already set. To do so, select the task, choose Attributes and change it to General Task.
- Set the Process Change Request (TS 75707943) task as a General Task, if not already set. To do so, select the task, choose Attributes and change it to General Task.
- Set the Approve Change Request (TS 75707980) task as a General Task, if not already set. To do so, select the task, choose Attributes and change it to General Task.
- Set the Revise Change Request (TS 75707981) task as a General Task, if not already set. To do so, select the task, choose Attributes and change it to General Task.

The Service Master for MDG EAM Solutions by Utopia provides a set of Agent Determination entries for the standard workflow template WS54300020. You can assign one User ID (type “US”) to each task in the workflow which requires agent determination.

Both SAP and Utopia recommends using the Organizational Management functionality which offers more flexibility and simplifies maintenance if allowed in the productive system. Therefore, depending upon the Org Structure or Single User, manually assign any type of Organizational Unit, e.g. Positions (“S”) to the CR Type and Step.

Master Data Governance under General Settings > Process Modeling > Workflow > Other MDG Workflows > Assign Processor to Change Request Step Number (Simple Workflow).

Example: You make the following entries listed to determine that Change Request type 01 has the following properties: (a) evaluation is done by organizational units GROUPACC, GLACC, and GROUPMD; (b) approval is done by user X; (c) changes are executed by organizational unit GROUPMD, and (d) the final approval is done by user Y:

Step	Description	Object Type	Processor ID
1	Evaluation	O	GROUPACC
1	Evaluation	O	GLACC
1	Evaluation	O	GROUPMD
2	Consider and Approve	US	X
3	Edit	O	GROUPMD
4	Approval	US	Y

Hint: Usage of EAM for Service Master by Utopia together with Extended ECM by OpenText™.

If you define your own workflow templates, ensure that for the activation step the improved task TS60808002 is used as well.

3.11. Set Up the Rule-Based Workflow

NA

3.12. Configuration for External API’s to handle MDG-SVM Object (Available from SVM 1909 release)

External API to Handle MDG-SVM.d

3.13. Analytics Configuration

UGI_EAM_SVM_190 9_Analytics Configu

3.14. Set up of Data Replication

Note

In the following sections, there are multiple references to Business Object Types (BO Types), Object ID Types, Messages, etc. which correspond with the various Service Master Objects included within the Service Master for MDG EAM Solutions by Utopia domain. For ease of reference, each of the main entities within the domain is listed.

3.14.1. Table 6: Service Master Business Object Types and Messages

Element	Object: ID (Description)
Object Type	258 (Service Product)
Object ID Type	968 Service Product (ERP)
Messages	/UGI3/SRVMAS (/UGI3/SRVMAS)
IDoc (Release/ Version)	/UGI3/SRVMAS01 (EAM 1909)
Filter Object	/UGI1/SM (Service)
Outbound Implementation	/UGI1/I_SM (Service via IDoc (MDG))
Outbound Implementation Class	/UGI1/CL_MDG_DRF_SERVICE
Key Structure	/UGI1/_S_U2_DRF_SERVICE

For Service Master for MDG EAM Solutions by Utopia, there two options for replicating data from the MDG hub to the connected systems and clients:

- Set Up Data Replication Using ALE
- Set Up Data Replication Using ALE with DRF

For more information, see in Customizing under Application Server > IDoc Interface / Application Link Enabling (ALE) > SAP Business Workflow.

3.14.2. Set Up Data Replication Using ALE

The following process describes the essential settings required for the main message types of the Service Master Object (see Table)

1. Verify logical systems

   Run t-code SALE and choose Basic Settings > Logical Systems. Both clients (source and target) need to be defined as logical systems and need to be assigned to the relevant clients.

2. Check communication

   Run t-code SALE and choose Communication > Create RFC Connections.

   The target partner system must be defined here as an ABAP connection with a connection type of 3 and with same name as the target logical system. Perform a connection test.

   Define an ALE tRFC port using t-code WE21. Created port will use the RFC connection created in the earlier step.

3.14.2.1. Set Up Outbound Processing from Hub

1. Maintain distribution model

   Run t-code SALE (Display ALE Customizing) and choose Modeling and Implementing Business Processes > Maintain Distribution Model and Distribute Views. Alternatively, run t-code BD64 (Maintenance of Distribution Model)

The related message types should be available if the /UGI3/ package is installed and BC-Set /UGI3/EAM_SM_INB_PROCESSCODE was activated successfully.

In change mode, create a new model.

Choose the Create Model View pushbutton. Enter a short text and a technical name.

Choose the Add Message Type pushbutton for the newly created model.

Enter names for the logical source and destinations systems and choose the message type /UGI3/SRVMAS.

If you use the classification for any of the EAM object types in Utopia EAM Solutions, then add a message type that is reused to distribute the class assignment data.

Object Type	ALE Message Type
1 message type for all classification-relevant	CLFMAS

Note

For the distribution of the classes and characteristics themselves, proceed according to the guides available for this topic.

2. Create partner profile
    a. Run t-code SALE and choose Modeling and Implementing Business Processes > Partner Profiles > Generate Partner Profiles. Alternatively, run t-code BD82 (Generate Partner Profiles).
    b. Select the newly created model and in the Partner System field, enter the logical destination system.
    c. Enter the ALE-User (the default value is ALEREMOTE) and the following values and execute.

Field	Value
Version	3
PackSize	100
Output Mode	Pass IDoc immediately
Inb. Parameters: Processing	Trigger Immediately

    d. To verify your settings, run t-code WE20 and from the Partner Profiles menu, choose Partner Type LS. Verify that Partner type LS is the logical destination system.
    e. In the detail screen, the chosen message types should appear.

3.14.2.2. Set Up Inbound Processing in Receiving System

1. Distribute model view to receiving system.
    a. Run t-code SALE and choose Modeling and Implementing Business Processes > Maintain Distribution Model and Distribute Views. Alternatively, run t-code BD64.
    b. Select the new model and choose Edit > Model view > Distribute.
    c. Verify that the correct receiving system is marked and choose Enter.
    d. Verify within the receiving system that the model view was created.
2. Create partner profile (in receiving client)
    a. Run t-code SALE and choose > Modeling and Implementing Business Processes > Partner Profiles > Generate Partner Profiles. Alternatively, run t-code BD82.
    b. Select the distributed model.

c. Enter the ALE-User, and the following values, and execute.

Field	Value
Version	3
PackSize	100
Output Mode	Pass IDoc immediately
Inb. Parameters: Processing	Trigger Immediately

d. Check that the correct process code is being used. To do this, either click on the message or run t-code WE20 on the target system and choose LS Partner Type (which corresponds to the MDG Hub system) > Inbound Parameters > select <Message Type> DetailScreenInboundParamter.

e. If the protocol contains the error Port could not be created this can be ignored. If you get warning “Inb. Parameters Process code created with BAPP”, check that the correct process code is being used. To do this, either click on the message or run t-code WE20 on the target system and choose LS Partner Type (which corresponds to the MDG Hub system) > Inbound Parameters > select <Message Type> Detail Screen Inbound Parameter ( ) Check that the parameter Process Code is as follows for the associated message type:

Message	Process Code
/UGI3/SRVMAS	/UGI3/SRVM

Note

If you use the classification for any of the EAM object types in EAM Solutions by Utopia, then add the inbound message type as well and the following process code.

Message	Process Code
CLFMAS	CLFM

Note

In the Configuration activity, Define Technical Settings for Business Systems SAP recommends that you select the checkbox Status System Filter for the corresponding business object. This ensures that if an object instance was previously sent to a target system, it continues to be sent in the future, independent of filter settings.

3.14.3. Set Up Data Replication Using ALE with DRF

In Master Data Governance for the Service Master objects, the replication of master data from MDG Hub to connected client systems can be scheduled, triggered, and monitored using the Data Replication Framework (DRF) in concert with the ALE.

Note

If you are using ALE and DRF together to replicate Service Master objects, you can improve performance by deselecting the change pointers for the corresponding message type.

You can do this in the Activate Change Pointers for Message Types configuration activity. You should perform this step if your MDG systems are integrated using ALE and DRF together. If you use ALE without DRF in one or more connected systems do not disable the change pointers.

The following customizing is relevant for data replication:

- ALE. Refer Set Up Data Replication Using ALE.
- Key Mapping

- ALE Audit. Refer Customizing for ALE Audit (Optional).
- Data Replication Framework (DRF)

The following process outlines the steps to perform the customizing for the above points from 1 to 3.

3.14.4. Customizing for Data Replication Framework (DRF)

Use the following steps to customize DRF:

1. Use t-code DRFIMG to check if the following filter object has been defined. Select Enhance Default Settings for Outbound Implementation > Define Filter Objects to view the filter object definitions.

Filter Object	Table	Assign Filter	Filter Type	General Filter Parameter	Filter Class
/UGI1/SM	ASMD	1	2	/UGI1/_S_U2_DRF_SERVICE	/UGI1/CL_MES_DRF_SER_EXPL_FILT

2. Check that the main filter object is available for Service Master object. T-code DRFIMG expand Enhance Default Settings for Outbound Implementations >Define Outbound Implementations. Refer the two configurations and refer the Table 6: Service Master Business Object Types and Messages.

Business Object Type	Main Filter Object	Outbound Implementation	Table Name	Data Model/Entity Type
258	/UGI1/SM	/UGI1/I_SM	ASMD	U2 / SERVICE

3. Maintain Filter object to the Business Object via Transaction Code DRFIMG Enhance Default Settings for Outbound Implementation Define Business Objects and Object Identifiers > Assign Filter Objects to Business Objects. Maintain the following entries if not maintained.

Business Object Type	Description	Filter Object
258	Service Product	/UGI1/I_SM

4. Update the Key Structure to the Object Identifier via Transaction Code DRFIMG > Enhance Default Settings for Outbound Implementation > Define Business Objects and Object Identifiers > Assign Key Structures to Object Identifiers. Update the following entries on the screen.

Object ID Type	Description of Object ID Type	Key Structure	Delimiter	BO Type	Description of BO
968	Service Product	/UGI1/_S_U2_DRF_SERVICE		258	Service Product

5. Optionally, you can check the correct assignment of Object ID Type, BO Types and Object Node Types and via Enhance Default Settings for Outbound Implementation > Define Business Objects and Object Identifiers > Define Object Identifiers. Compare the entries with the values of Table 6: Service Master Business Object Types and Messages at the beginning of this chapter.
6. Check that the Key Structure Assignment for all entity types exist. See also Table 6: Service Master Business Object Types and Messages at the beginning of this chapter.
7. If not, create the entry via Enhance Default Settings for Outbound Implementation > Define Business Objects and Object Identifiers > Assign Key Structures to Object Identifiers.
   - Assign the Key Structure /UGI1/_S_U2_DRF_SERVICE to Object Type 968.

8. Define the technical settings for the business system.
    a. Enter t-code DRFIMG and navigate to Define Custom Settings for Data Replication > Define Technical Settings > Define Technical Settings for Business Systems.
    b. In the Business System field specify the receiver system. In the Logical System field, enter the Logical System used for IDoc communication. In the RFC Destination field enter the RFC destination to be used for RFC communication with the receiver system.
    c. Select the entry and click on Define Bus. Systems, BOs.
    d. In the BO Type field, enter the business object type 258
    e. Select each of the entries and double-click on Define Bus. Systems, BOs, Communication Channel. In the Communication Channel field enter the means you want to use to transmit data to the applications. In the Key Harm. field specify if you want your keys harmonized between the hub and the client systems.

    The following are the default settings:

C. Channel	Key Harm.	Upd. KM	Storage Repl. Data	Sup. Time Dep.
Replication via IDoc	Key Mapping / Harmonized IDs	Checked/Unchecked	Active Area	Not Defined / Does not Support

9. Create the replication model and assign it to the outbound implementation as follows:
    a. Enter t-code DRFIMG.
    b. Navigate to Data Replication > Define Custom Settings for Data Replication > Define Replication Models.
    c. Select Define Replication Model and then select New Entries.
    d. Enter a replication model and a description. In the Log Days field, you may enter the number of days after which you want an Application Log to expire. In the Data Model field, enter U2.
    e. Select the newly defined replication model and choose Assign Outbound Implementation.
    f. Choose New Entries.
    g. Assign the appropriate outbound implementation.

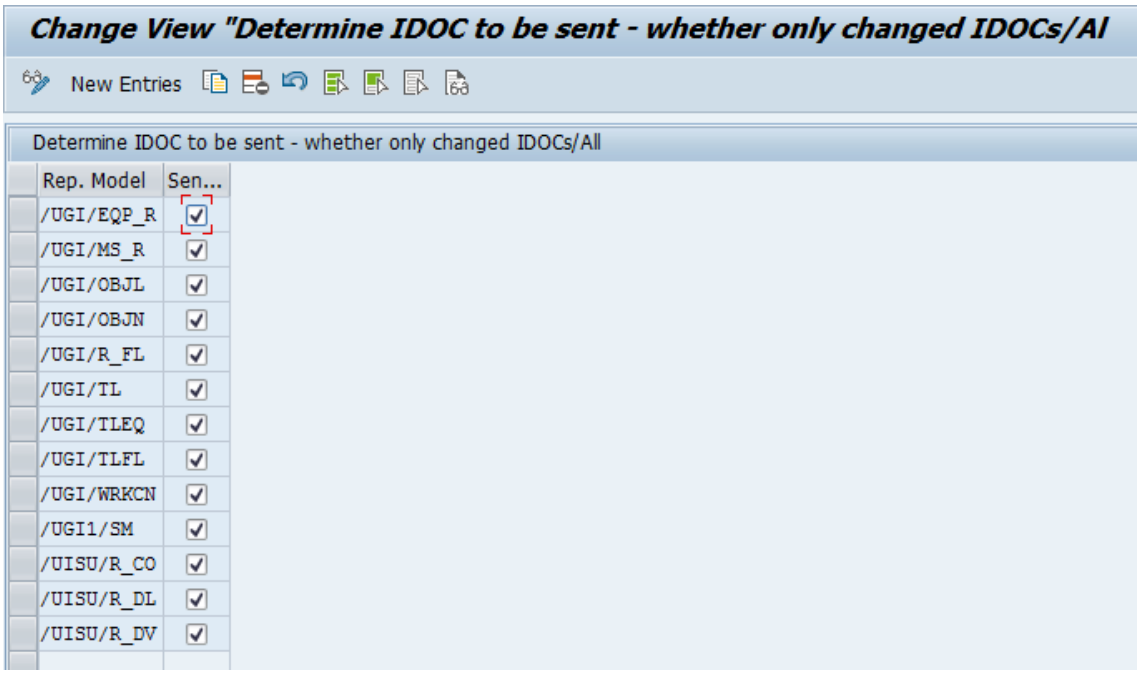
Outbound Implementation	Communication Channel	Filter Time (Recommended)	Outbound Parameter
/UGI1/I_SM (for Service)	Replication via IDoc	Filter after Change Analysis	PACK_SIZE_BULK

    h. For each of the outbound implementations, assign the target systems
    i. For each of the outbound implementations, assign and define the outbound parameters. Pick the available parameters via the drop-down value list / F4 help, e.g. “Package Size for Bulk Messages” and assign a value that fits your requirements
    j. Save and activate the replication model.

3.14.5. Additional Settings to Trigger only Delta IDocs (Applicable from 1909 Release)

By default, only delta IDocs will be sent. If you want to change the default settings, go to T-Code MDGIMG and follow the given path:

MDGIMG > Enterprise Asset Management Service Master > Maintain Setting to Limit Outbound IDoc Messages to Delta and uncheck the checkbox against Replication Model - /UGI1/SM.



3.15. Choose where you want to run SAP MDG

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

- SAP NetWeaver Portal
- SAP NetWeaver Business Client

3.15.1. SAP NetWeaver Portal

The SAP NetWeaver Portal content for Service Master for MDG EAM Solutions by Utopia is derived directly from the system PFCG 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 PFCG roles.

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

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 on 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 list displayed select the PFCG roles you want to upload the content from and begin the upload.

Once uploaded, assign and personalize the MDG portal roles as follows:

1. Log on to the portal.
2. Choose Delegated User Administration.
3. Enter your User ID and choose Go.
4. Mark the line of your user and choose Modify.
5. Select the Assigned Roles tab.
6. Enter MDG as the search criteria.
7. Select the portal role you want to add.
8. Choose Add and save.

After assigning the user role you need to log off and log on again to the portal. For more information on uploading role information see SAP Note 1685257.

3.15.2. 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 three roles containing authorization and navigation information and one role (/UGI1/_MDGPROC_ALLUSR) containing basic access

To assign and personalize the role Master Data Governance for SERVICE MASTER (/UGI1/_MDGPROC_ALLUSR) use the following steps:

1. On the SAP Easy Access screen, choose Tools > Administration > User Maintenance > Role Administration > Roles > or alternatively, run t-code PFCG (Role Maintenance). Choose role /UGI1/_MDGPROC_ALLUSR.
2. 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.
3. Assign and personalize the role /UGI1/_MDGPROC_ALLUSR to your users. In the role /UGI1/_MDGPROC_ALLUSR on the Personalization tab, edit the Personalization Key SAP Master Data Governance (R_FMDM_MODEL): Define the default model U2 and the related UI configuration.
4. Verify the setting of the authorization objects within the roles and restrict them if required.
5. On the SAP Easy Access screen, choose Tools > Administration > User Maintenance > Users >. Run t-code SU01 (User Maintenance) and assign the Master Data Governance for SERVICE MASTER: All Users (/UGI1/_MDGPROC_ALLUSR) for application to the MDG user.

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

3.16. Configure Process Quality Metrics (Optional)

For the priorities, reasons, or rejection reasons for change requests, there are example values available.

Run the BC-Set activation process (t-code SCPR20), enter /UGI1/MDG_PROC_PQM_SM.

To start, choose Activate and keep the default settings.

The 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. To update any of the Process Quality Metrics (PQM), 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.

The values for these PQM values delivered in the BC-Set are as follows:

3.16.1. Change Request Priorities

Priority	Description
1	High Priority
2	Medium Priority
3	Low Priority

3.16.2. Change Request Reason

CR Type	Reason	Description
SRMAST01	01	New Service Master
SRMAST02	01	Change Service Master (Core)
SRMAST02	02	Change Service Master (Text)
SRMAST02	03	Change Service Master (Classification)
SRMAST06	01	Delete-Mark Service Master (Core)
SRMAST0A	01	Process Multiple Service Masters
SRMAST0B	01	Import Service Masters

3.16.3. Reason for Rejection

CR Type	Reason	Description
SRMAST01	01	Incomplete Information
SRMAST01	02	Does not suit business requirements
SRMAST01	03	No proper justification
SRMAST02	05	Revision of several fields Information
SRMAST02	06	Service has to be changed
SRMAST02	07	Service has to be revised
SRMAST06	08	No business justification
SRMAST06	09	Requirement withdrawn
SRMAST06	10	Already similar Service exists

3.17. DIF (Data Import Framework)

Define File Source and Archive Directories for Data Transfer.

Maintain Source and archive directories for all objects using navigation path:

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

For more information, refer How-To Guide: DT Import (DIF) for Service Master.

3.18. Customizing for ALE Audit (Optional)

You can configure your client and hub systems so that your client systems send confirmation of replicated objects back to the MDG hub. Use the following steps to set up this confirmation process.

3.18.1. Client System

In the client system make the following settings:

1. Select Distribution Model
    a. Run t-code BD64 and choose Change/Display.
    b. Select the distribution model you created above and choose Add Message Type.
    c. In the Add Message Type screen enter the following:

i. In the Sender field, enter the logical system from which the acknowledgment is sent (The client system).

ii. In the Receiver field, enter the logical system to which the acknowledgment is sent (The hub system).

iii. In the Message Type field, enter ALEAUD.

d. Choose Ok.

2. Select Partner Profile
   a. Run t-code SALE and choose Partner Profiles > Generate Partner Profiles. Alternatively, run t-code BD82 (Generate Partner Profiles).
   b. Select the distribution model and in the Partner System field, enter the hub logical system name.
   c. Enter the ALE-User (the default value is ALEREMOTE) and the following values.

Field	Value
Version	3
Pack Size	100
Output Mode	Pass IDoc Immediately
Inb. Parameters: Processing	Trigger Immediately

   d. Click on the Execute button. The log for partner profile generation appears displaying the new sender and receiver systems.
   e. To verify your settings, run t-code WE20 and from the Partner Profiles menu, choose Partner Type LS. Verify that Partner type LS is the logical destination system.
   f. In the detail screen, the message type, ALEAUD must appear.
   g. In the Outbound Options tab, in the Process Code field enter ALEAUD01.
   h. Select the Cancel Processing after Syntax Error checkbox.
   i. In the Processing by Function Module section, select the Pass IDoc immediately radio button.
   j. Choose Save.

3. Schedule Batch Job
   a. Schedule a batch job for program RBDSTATE for periodic intervals

3.18.2. Hub System

In the hub system make the following settings:

1. Generate Partner Profile
   a. Run t-code WE20 and check that the partner profile with logical name of the receiver system (Client system) exists below the Partner Type LS folder.
   b. Select Receiver Logical System (Client system) and choose Change.
   c. Choose Create Inbound Parameter.
   d. In the Message Type field enter ALEAUD.
   e. In the Basic Type field enter AUD2.
   f. Select the Cancel Processing after Syntax Error checkbox.

g. In the Output Mode list, select Trigger immediately.

h. Choose Save.

2. Configure DRF Customizing
   a. Run t-code DRFIMG.
   b. Navigate to Data Replication > Define Custom Settings for Data Replication > Define Technical Settings for Business Systems.
   c. Select the receiver system (Hub system) and double-click on Define Bus. Systems, BOs, Communication Channel.
   d. Enter the business object type 258 for Service and choose Ok.
   e. Select the checkbox Upd.KM.
   f. Choose Save.

3. Configure Key Mapping
   a. Run t-code SM30 and enter view name MDGV_OTC_BOR, then click on display.
   b. Ensure that EAM object relevant Object type code (OTC) to Business Object (BO) relationship is maintained.

Note

For additional steps refer to Key Mapping How-To Guide.

The following table provides details of OTC to BOR mapping

Object	OTC	BOR
Service Master	258	BUS1005

4. Schedule Batch Job
   a. Schedule a batch job for program /UGI1/EAM_IDOC_REP for periodic intervals for classification IDoc type.

3.19. Workflow Templates for Service Master for MDG EAM Solutions by Utopia

The following workflow template is available for Service Master for MDG EAM Solutions by Utopia.

3.19.1. Workflow Template WS54300020

Utopia leverages the SAP standard workflow template WS54300020 for the approval process. This enables you to forward the change request as a work item to the appropriate processors. The status of the change request is automatically updated in the background.

This workflow template consists of the following steps:

1. Start Workflow
   The workflow starts when a change request is created by the user. For example, a Plant Maintenance technician.

2. Execute Changes
   The master data specialist receives a work item to execute the changes:

   - If they do not want to execute the changes, they can send the change request back to the maintenance technician. In this case, a work item with the change request is sent to the maintenance technician for revision (→ Step 3)

- If they want to execute the changes, the changes made to the master data are then checked (→ Step 4)

3. Revision After Rejection

   User responsible for processing the change request when it is rejected, such as the plant maintenance technician, decides whether to revise the change request:

   - If the User revises the change request, a work item with the change request is again sent to the master data specialist for processing (→ Step 2).
   - If the User withdraws the change request, the status of the change request is set to Final Check Rejected. If changes have already been made to the master data, these are reset, and the workflow ends (→ Step 6).

4. Perform Final Check

   The system checks the change request, using validation rules for Consistency, and saves the check results in a log. The master data steward receives a work item to do a final check of the change request. They check the validation results in the log and either approve or reject the final check:

   - If the User rejects the change request, a work item with the change request is sent back for revision to the maintenance technician (→ Step 3)
   - If the user approves the change request, the system activates the changes (→ Step 5).

5. Activate Changes

   The system activates the master data in the database tables of the modified objects according to the changes entered in step 4.

Note

The changes are then activated in the central system. When the workflows been completed, if DRF is enabled in concert with ALE, the system will then send the changes to the target system(s). Manual replication is also available if desired. System Compatibility

3.20. Final Steps

To ensure clear code generation, SAP and Utopia recommend regenerating the data model again at the end of these setup steps.

Note

Before you can run all Master Data Governance processes like Create Service, you need to assign the data model U2 to your user.