

How-To Guide: Extend MDG Catalog Code groups & codes Solutions in the U1 Data Model

Applies to

SAP Master Data Governance for EAM Objects

Summary

SAP Master Data Governance provides an out-of-the box solution for the central management of various master data objects such as financial objects, supplier and material. In addition, SAP Master Data Governance also provides the flexibility to customize the solution, in cases where the predelivered content does not fully match customer requirements.

You can use this guide to extend the MDG-U1 Data Model by a new entity type. The attribute values of the new entity type will be copied to the corresponding ERP tables (reuse option) after activation of the Change Request.

This document explains how to extend U1 data model for Catalog Code groups & codes object. An example of Catalog Code group is considered with an entity type CODGRPHDR. You can follow the same procedure for other entity objects like SELSETHDR.

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Scenario

High Level Requirements

The business requires the new attributes as part of the MDG Catalog Code group & codes U1 Data Model.

You want to extend the (Type1) entity type CODGRPHDR to include attributes: ZZFNAME, ZZEMPID.

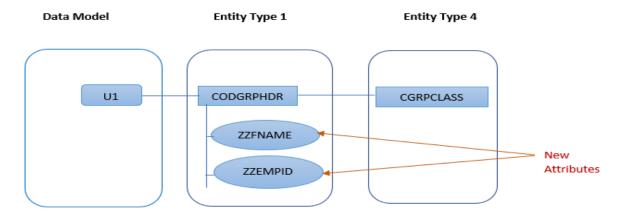
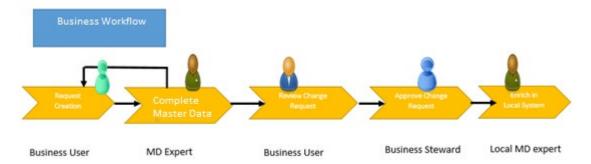


Figure: Data Model - Catalog Code Groups Object with custom Entity 'ZZFNAME' and "ZZEMPID".

Governance Process

The default governance process delivered with MDG is used. No changes to the governance process are necessary as part of this scenario.

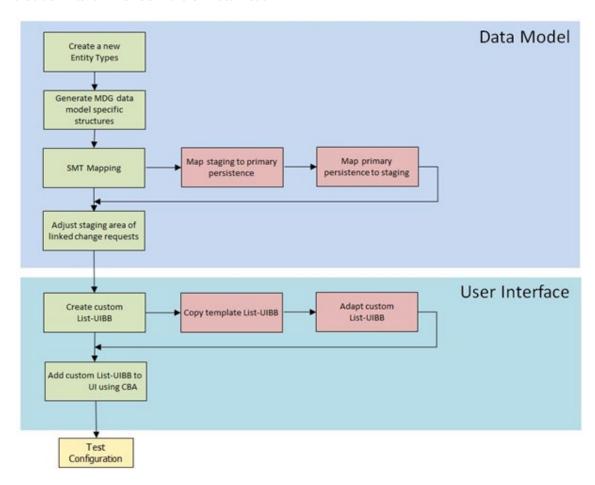


Implementation

Two major building blocks make up the implementation of the entity type extension. In the first phase, you extend the MDG Data Model. In the second phase, you extend the user interface to include the new entity type.

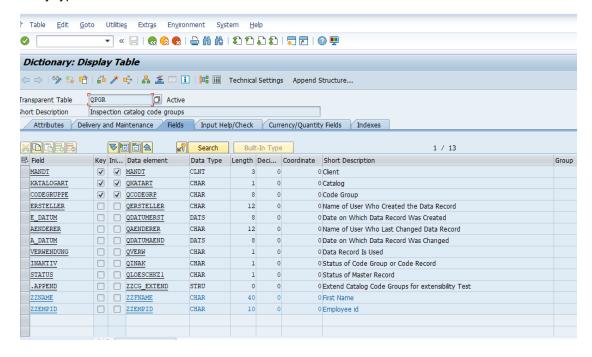
The following flow diagram shows the detailed implementation steps. It is recommended that you use it as an orientation.





Data Model Extension

You want to extend the MDG Data Model for Catalog Code Groups (U1) by the additional new Entity ZZFNAME and ZZEMPID. The following fields from QPGR table should be modelled as attribute of entity type in MDG.

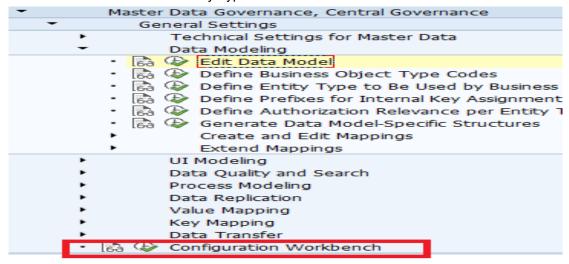




Add Custom Entity Type to Existing Data Model U1

Use the following steps to add attributes to existing Entity Type.

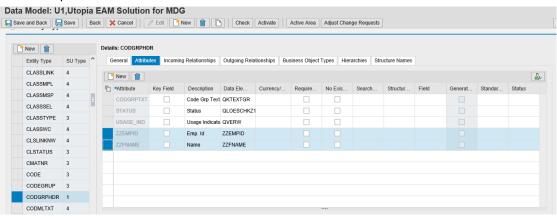
- 1. Log into system for cross client maintenance.
- Start Customizing for Master Data Governance (transaction MDGIMG). Go to > General Settings > Configuration Workbench > Select Data Model U1 > Click the "Edit" button > In the left-hand table with the list of Entity Types click the "New" button.



- 3. Add the attributes of Entity Type CODGRPHDR as shown in the following screen.
- 4. Save your settings.

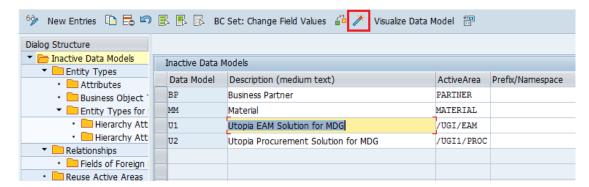
It is recommended to assign a Search Help to a Data Element in exceptional circumstances. If you do this, the input help executes the search help instead of reading the data in the check table or the fixed values of data element's domain.

In the following steps, you define new entity types that are needed to define the key fields using relationships.



5. Activate the extended Data Model.





After activation, the following information message is displayed.



6. Make Change Request adjustments after creating the SMT mapping.

Generate MDG Data Model-Specific Structures

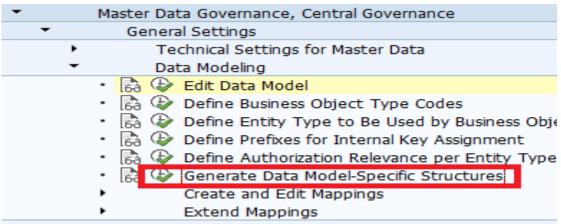
In general, if you change a Data Model (for example, if you change attributes of entity types or relationships) you need to regenerate the structures. You can assign a prefix and a package directly in the Data Model. Then the structures will be generated automatically with activation of the Data Model.

Older releases: Since the MDG Data Model was changed you need to regenerate the tables. In this Customizing activity, for each Data Model and entity type you generate technical structures and tables in the ABAP Dictionary.

The system uses these structures internally for implementing the staging area. To generate these Data Model-Specific structures follow the steps below.

Note: In general, if you change a Data Model (for example, if you change attributes of entity types or relationships); you need to regenerate the structures.

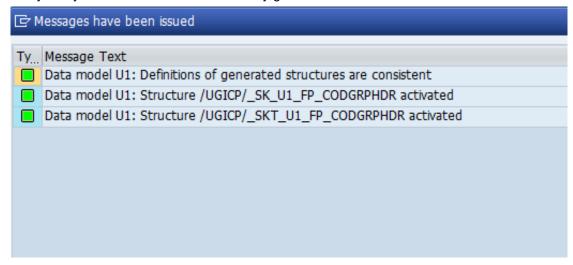
Start Customizing for Master Data Governance (transaction MDGIMG).
 Go to > General Settings > Data Modeling > Generate Data Model-specific Structures.



2. Select the row with Data Model U1 > Double-Click Structures in the left-hand panel > Choose the "Generate Selected Structures" button.

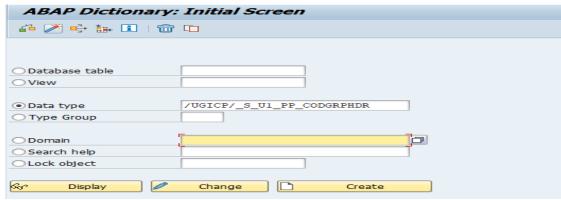


Verify that your structures were successfully generated.

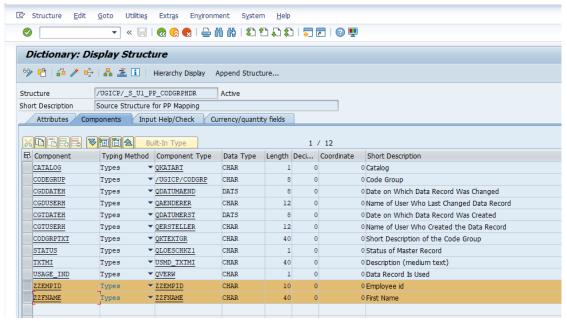


In the following steps, you verify that one of the active area mapping structures was successfully generated with new fields.

4. Start t-code SE11 > Display structure /UGICP/_S_U1_PP_CODGRPHDR.



You have now verified that the structure /UGICP/_S_U1_PP_CODGRPHDR has been generated.





SMT Mapping

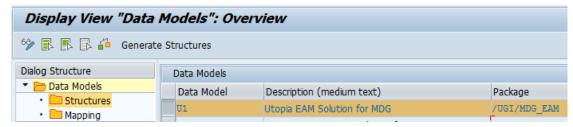
You extend mappings by creating new transformations (complex transformations, field mappings) and field checks for them or by editing them.

Important: When the mappings are saved, the system generates the corresponding coding. Make sure that all relevant structures are ready before you start.

SMT Mapping - Get Mapping Names from Data Model U1

Use the following steps to get the mapping names.

 Log into system for cross-client maintenance. Start Customizing for Master Data Governance (transaction MDGIMG). Go to > General Settings > Data Modelling > Generate Data Model Specific Structures > Select Data Model U1 > Double-Click on Mapping.



The SMT mappings for Entity Type CODGRPHDR as displayed.



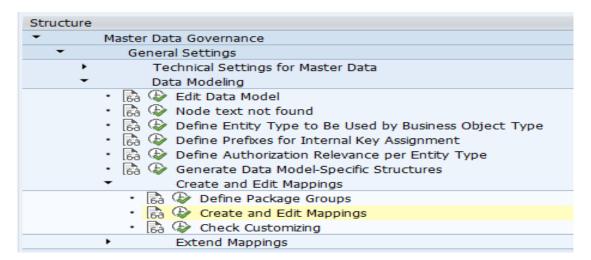
SMT Mapping - Primary Persistence to Staging

Use the following steps for SMT Mapping from Primary Persistence to Staging area.

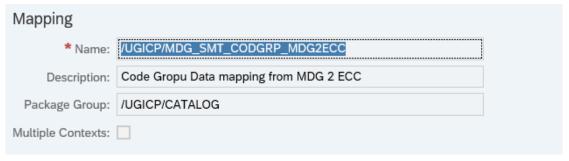
- 1. Log into system for cross-client maintenance. Start Customizing for Master Data Governance (transaction MDGIMG).
 - Go to > General Settings > Data Modeling > Create and Edit Mappings > Create and Edit Mappings.

Note: For new Entity Types, it is recommended to create a new mapping. When extending existing Entity Types, it is recommended to extend the existing mapping.



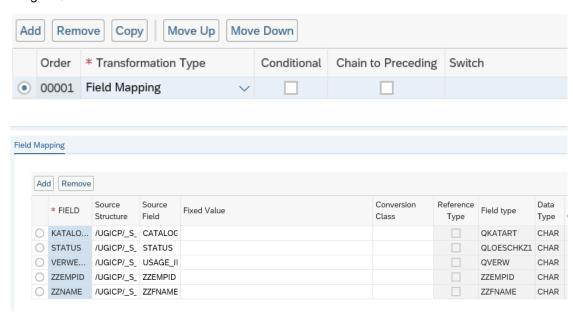


2. Extend mapping /UGICP/MDG_SMT_CODGRP_MDG2ECC.

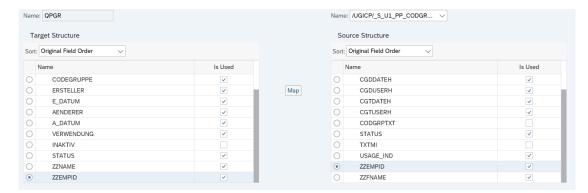


- 3. Select mapping step and choose the "Details" button.
- 4. Map the fields as shown in the following screen.

Add a mapping step -Assign Source Structure /UGICP/_S_U1_PP_CODGRPHDR, Assign Target QPGR Structure.





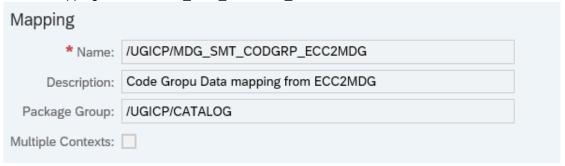


5. Save your changes.

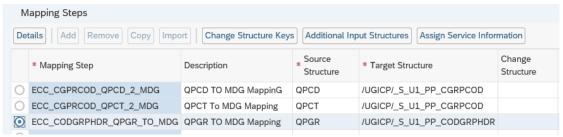
SMT Mapping - Staging to Primary Persistence

Use the following steps for SMT Mapping from Staging area to Primary Persistence.

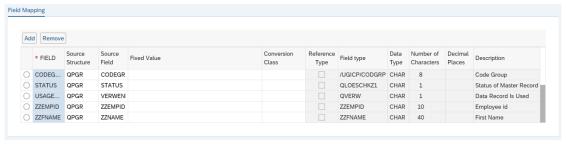
1. Extend mapping /UGICP/MDG_SMT_CODGRP_ECC2MDG



2. Select mapping step and choose the "Details" button. Map the fields as displayed in the following screen.



3. Add a mapping step - Assign Source Structure QPGR and Assign Target Structure /UGICP/_S_U1_PP_CODGRPHDR.



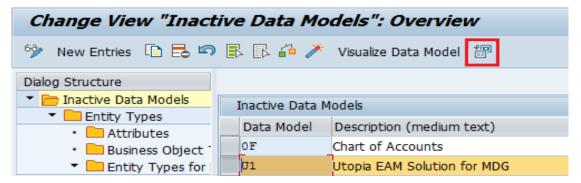
4. Save your changes.



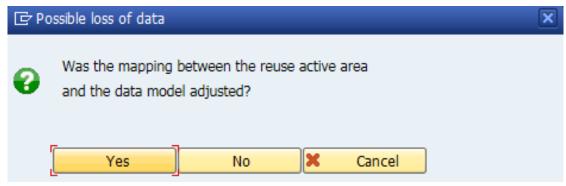
Adjust Staging Area of Linked Change Requests

Note: This step is necessary to adjust any open Change Requests after you have changed the Data Model.

Start Customizing for Master Data Governance (transaction MDGIMG).
 Go to > General Settings > Data Modeling > Edit Data Model > Select Data Model U1 > Double-Click on Entity Types > Choose the "Adjust staging area of linked Change Requests" button.

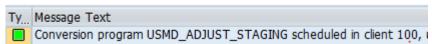


2. Choose the "Yes" button.



The following message appears.

Note: Make sure that user DDIC exist in all relevant clients.

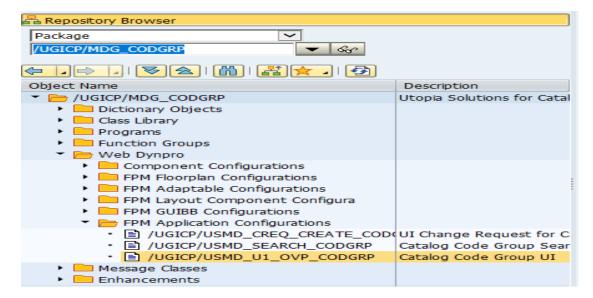


Extending the UI Configuration

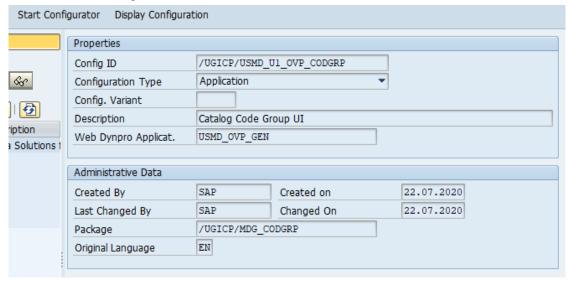
Use the following steps to add customization to UI.

 Start t-code SE80 > In the drop down select Package > In the input field enter /UGICP/MDG_CODGRP> Navigate to Web Dynpro > FPM Application Configurations > /UGICP/USMD_U1_OVP_CODGRP.





2. Click the "Start Configurator" button.



3. In the web browser, click on "Continue in Display Mode".



4. Click on the configuration /UGICP/USMD_U1_CODGRP_OVP.

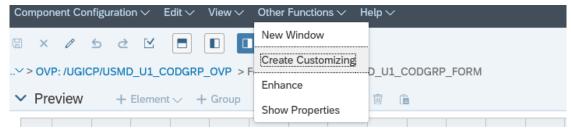




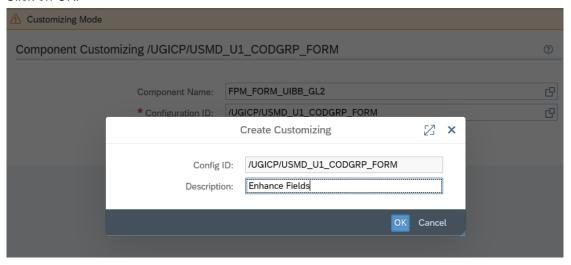
5. Select the UIBB where you want to add new attributes and click on "Edit UIBB "



6. Click on Additional Functions > Create Customizing.



7. Click on OK.



8. Change your UI. Add new fields that is added in entity CODGRPHDR.



Testing the Configuration

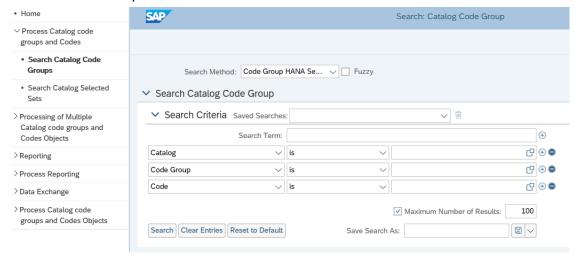
Note: If you extend the Data Model according to the guidelines shown below, but the fields are not populated when you Activate the Data Model, see SAP Note <u>1641867</u>- Values for extension field missing after CR activation.



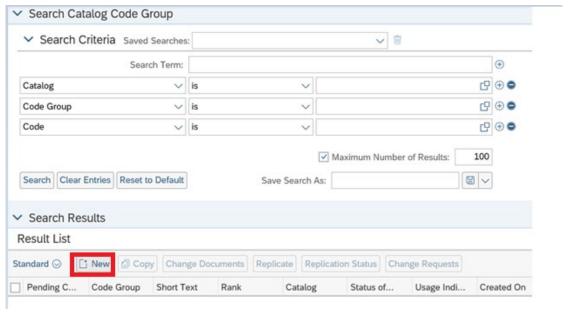
To test your configuration, start the MDG Catalog Code groups UI using the following URL (replace the parameters host, port and client-id to match your landscape):

https://<host>:<port>/sap/bc/webdynpro/sap/ usmd_ovp_gen?
ACTION=CREATE&FPM_EDIT_MODE=E&saplanguage=EN&WDCONFIGURATIONID=/UGICP/USMD_U1_OVP_CODGRP#

 Go to t-code PFCG > enter role name /UGICP/_MDGCP_REQ and click the "Display" button -Select the Menu – Tab > In the hierarchy window navigate to Role Menu > Master Data Governance for Catalog code groups and Codes > Process Catalog Code groups and Codes> Search Catalog Code groups > Right-Click on Search Catalog Code Groups and select Execute from the drop-down.



In UI click on NEW button.





Basic Data * Catalog: 1 Attribute * Code Group: SCOD Test Status of Codegroup: Released Usage Indicator: Created By: Changed By: Employee Id: 12345 Name: USER

- 2. Save and Submit the CR. Finalize processing and Approve.
- 3. After activation use t-code SE16 and open table QPGR. Verify attributes have been transferred correctly.

