How-To Guide: Extend MDG-uOBJLNK in the U1 Data Model

Applies to

MDG EAM Objects by Prometheus Group.

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 pre-delivered 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.

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Created On: September 20, 2018

Version: 1.0

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Scenario

High Level Requirements

The business requires the new attribute as part of the MDG Object Links Data Model U1.

You want to extend the (Type1) entity type OBJLINK to include attribute: ZZTELNR.

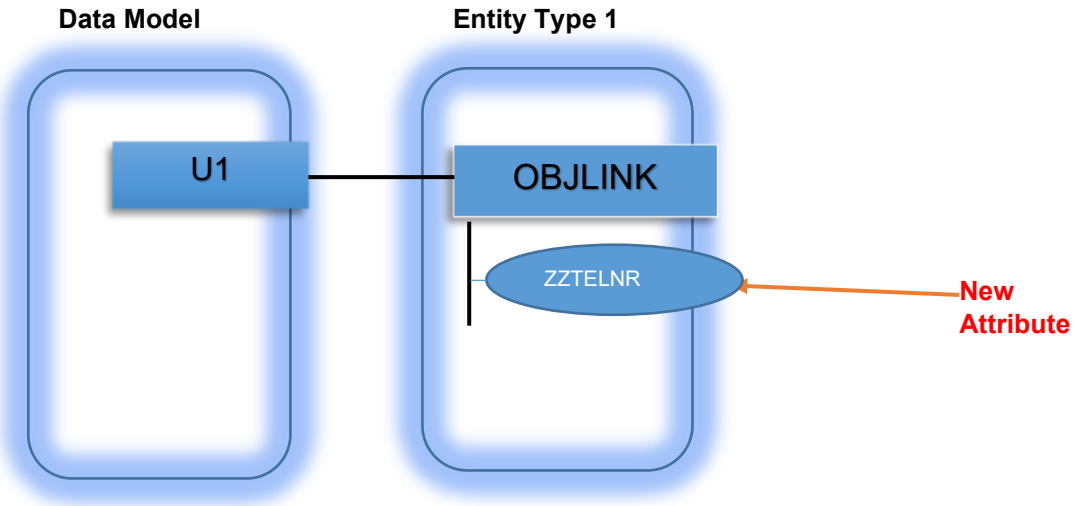

Figure: Data Model – Object Links with custom attribute ZZTELNR

Governance Process

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

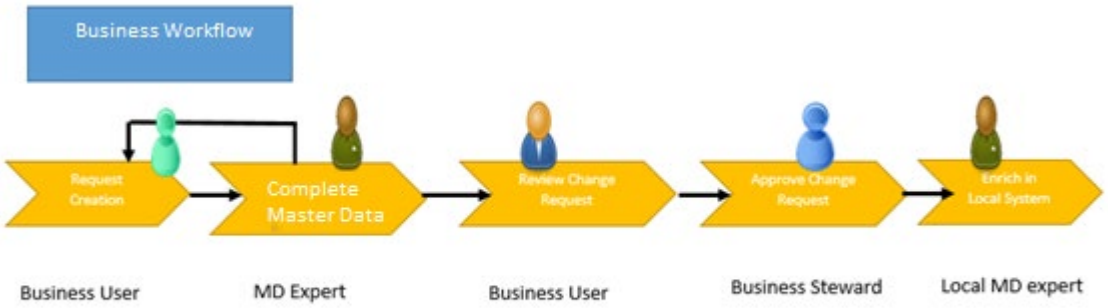

Figure: Functional Location processing in Master Data Governance

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 attribute.

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

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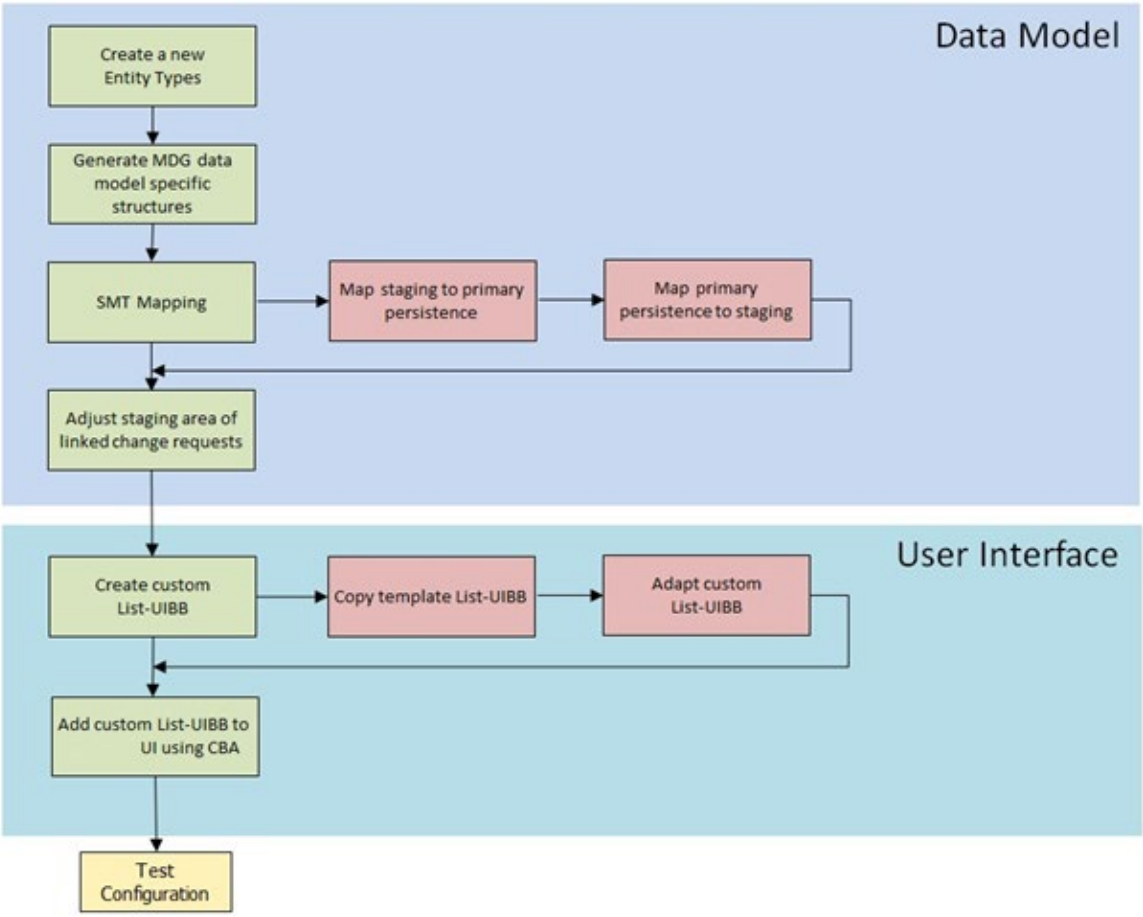
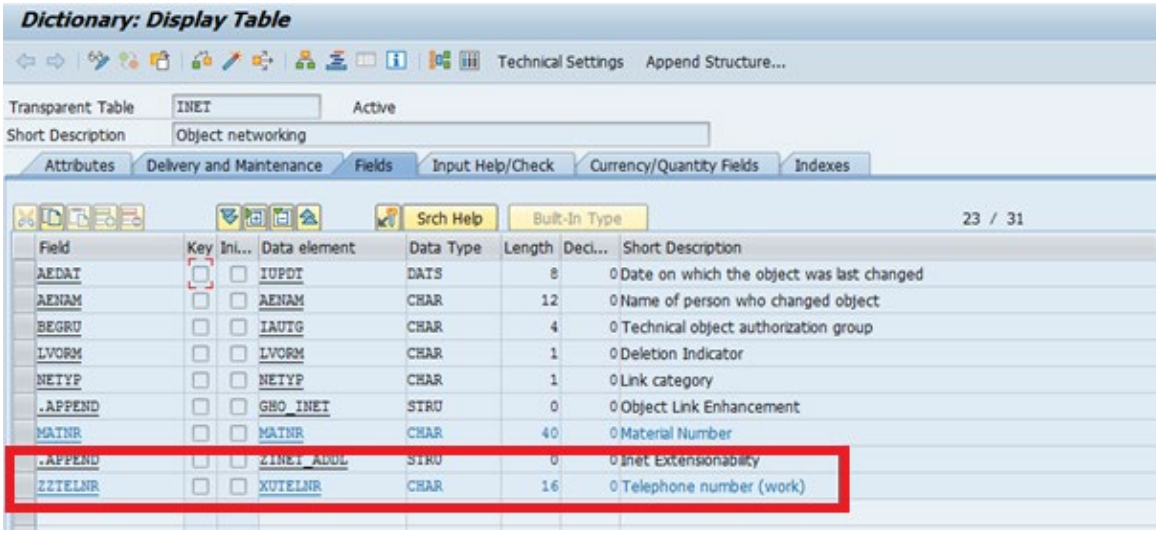


Figure: Implementation steps for re-use Entity-Type extension

Data Model Extension

You want to extend the Data Model (U1) for Object Links by the additional attribute ZZTELNR. The following additional field from INET should be modelled as an attribute of the entity type OBJLINK in MDG.



You first create the attributes ZZTELNR in entity type INET.

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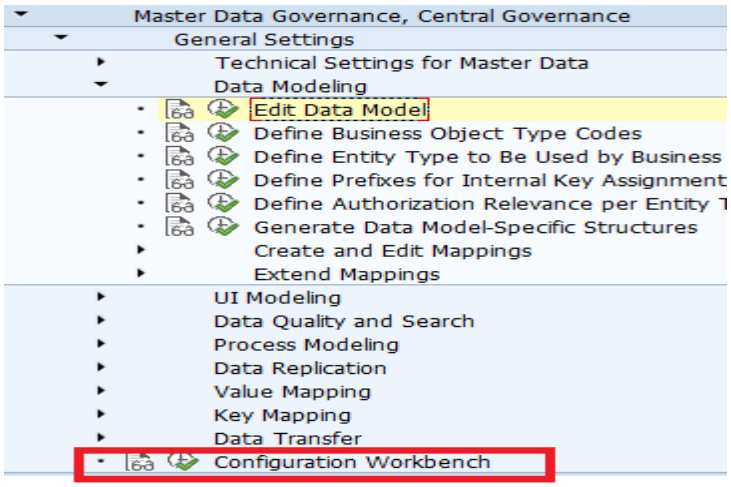
Add attributes to existing Entity Type

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

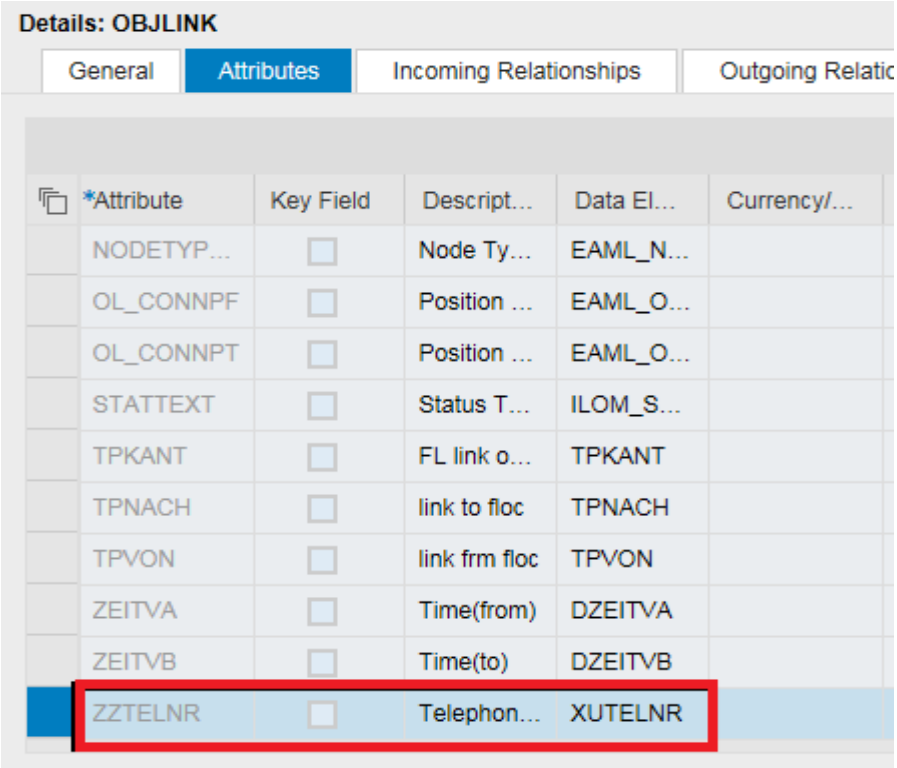
1. Log into system for cross client maintenance.
2. Start Customizing for Master Data Governance (transaction MDGIMG). Go to > General Settings > Configuration Workbench > Select Data Model U1 > Click the “Edit” button > In the left-hand table with the list of Entity Types click the “New” button.



3. Add the attributes of Entity Type OBJLINK as displayed in the following screen.
4. Save your settings.

Note: It is recommended that you 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.



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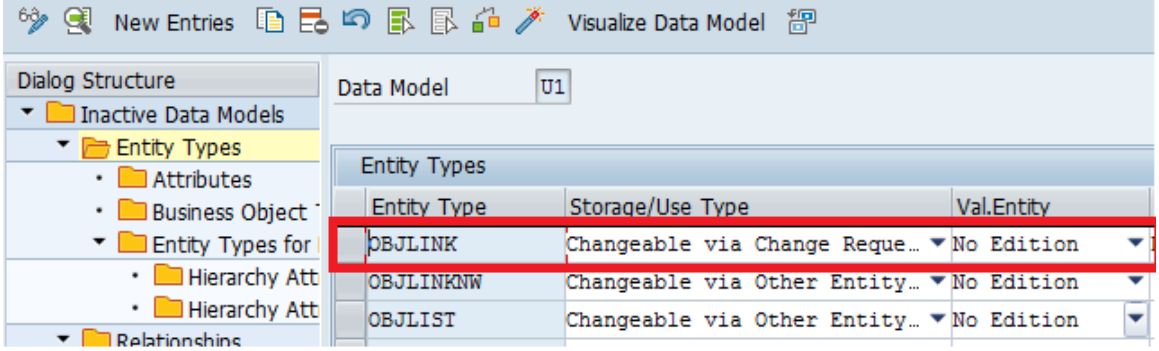
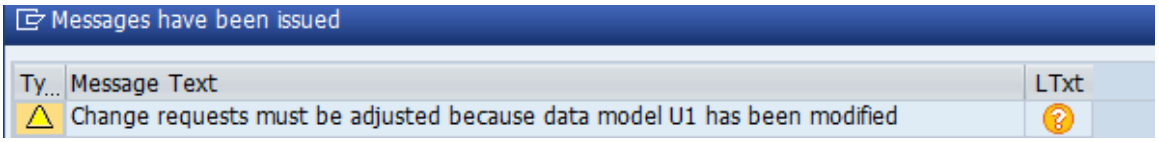
5. Activate the extended Data Model.



6. After activation, the following information message is displayed.



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

Generate MDG Data Model-Specific Structures

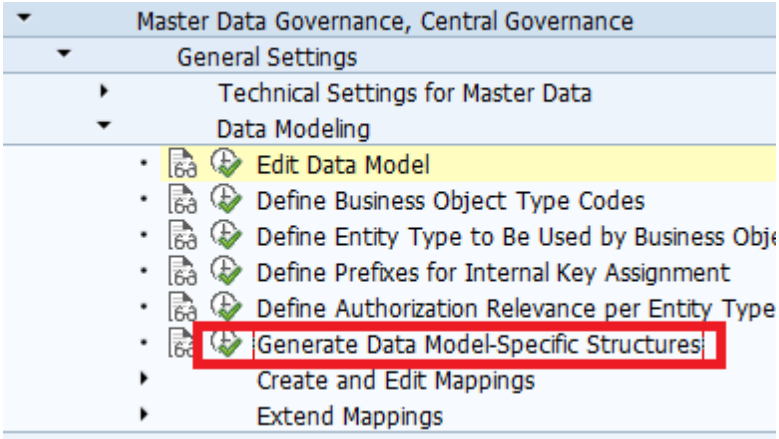
In general, if you change a Data Model (for example, if you change attributes of entity types or relationships) you need to regenerate the structures. You can assign a prefix and a package directly in the Data Model. Then the structures will be generated automatically with activation of the Data Model.

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.

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



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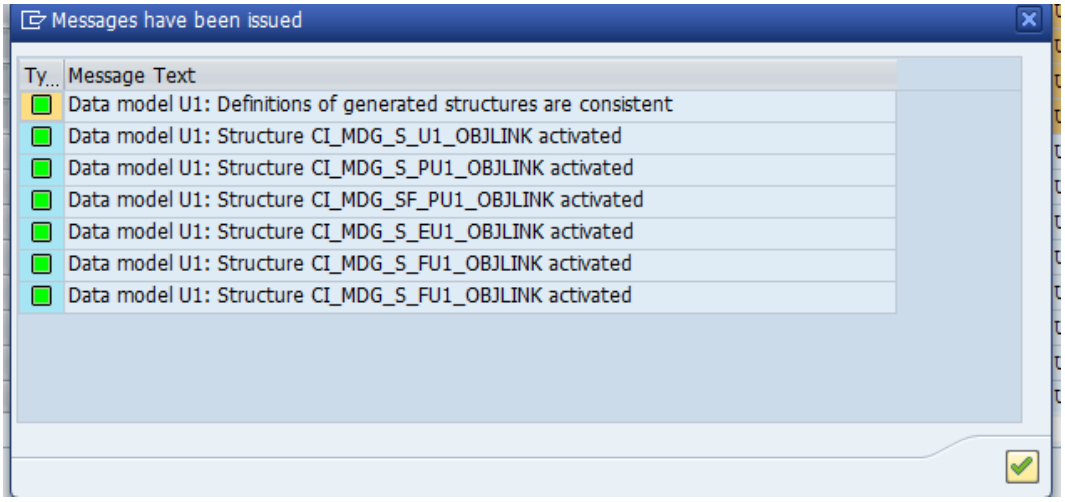
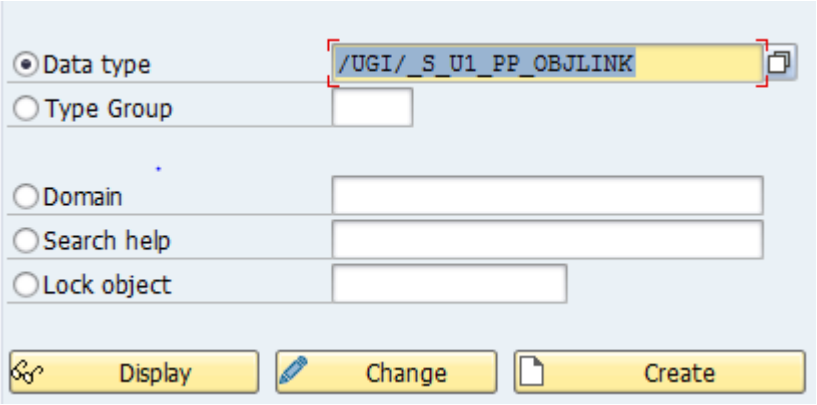
2. Select the row with Data Model U1 > Double-Click Structures in the left-hand panel > choose the “Generate Selected Structures” button.
3. Verify that your structures were successfully generated.



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

   Start t-code SE11 > Display structure /UGI/_S_U1_PP_OBJLINK



5. You have now verified that the structure /UGI/_S_U1_PP_OBJLINK has been generated.

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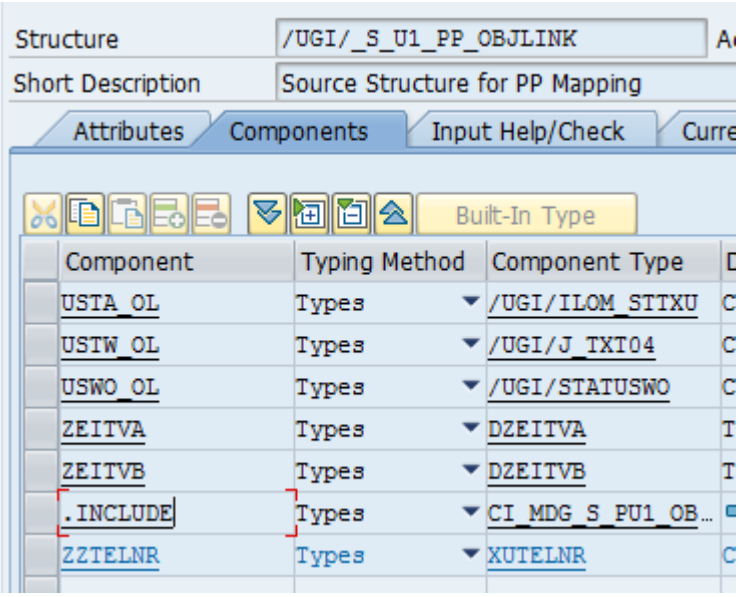


SMT Mapping

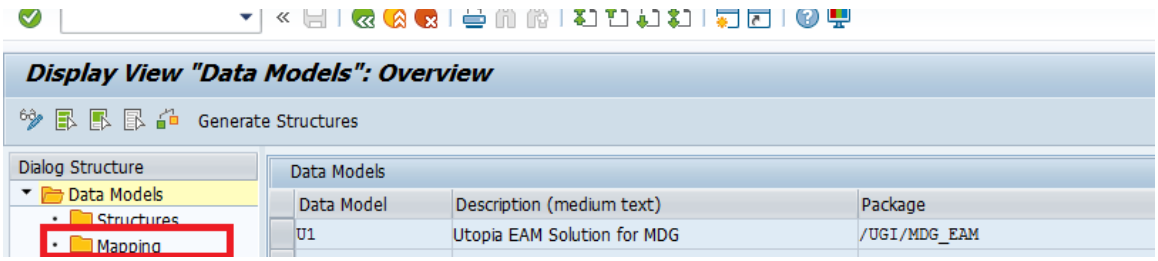
You extend mappings by creating new transformations (complex transformations, field mappings) and field checks for them or by editing them.

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

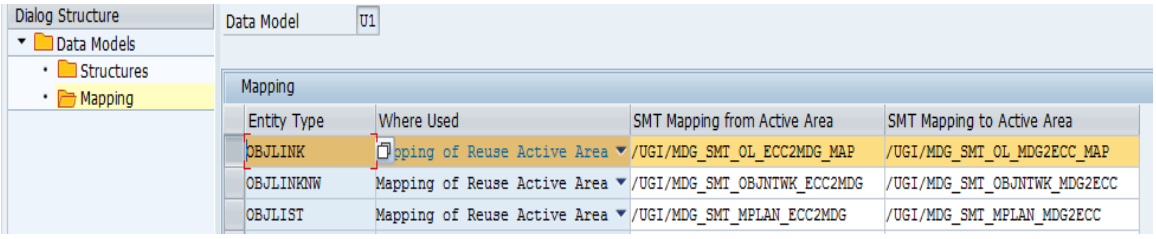
SMT Mapping – Get Mapping names from Data Model U1

Use the following steps to get the mapping names:

1. 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 OBJLINK as displayed.



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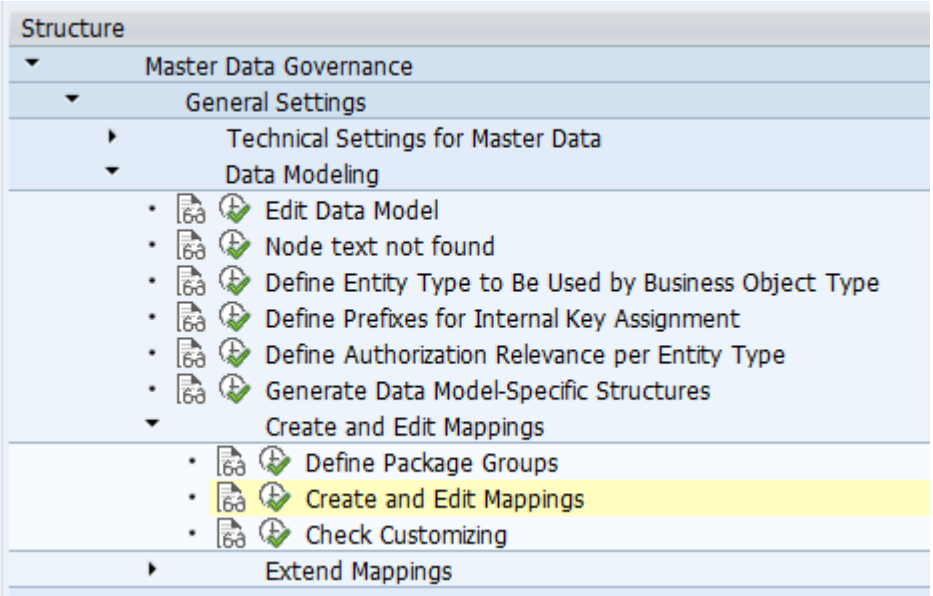
SMT Mapping – Primary Persistence to Staging

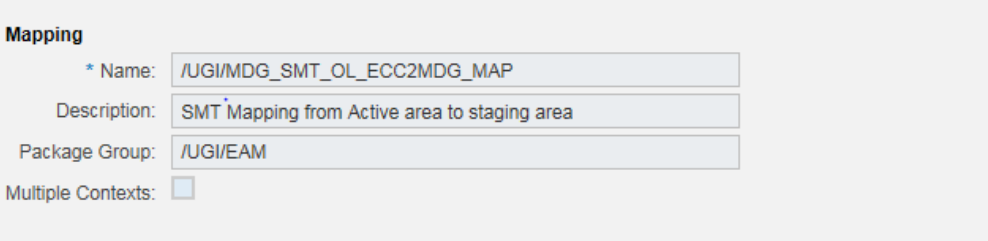
Use the following steps for SMT Mapping from Primary Persistence to Staging area.

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.

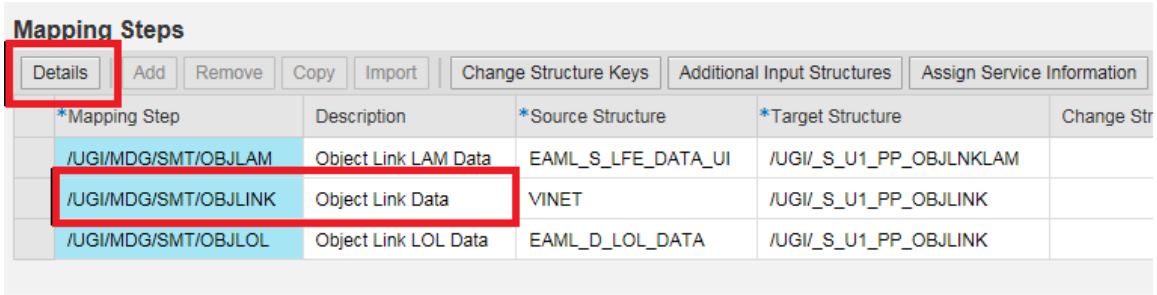
   Note: For new Entity Types, it is recommended to create a new mapping. When extending existing Entity Types, it is recommended to extend the existing mapping.



2. Extend mapping /UGI/MDG_SMT_OL_ECC2MDG_MAP



3. Select mapping step and select the “Details” button.
   Map the fields as displayed in the following screen.



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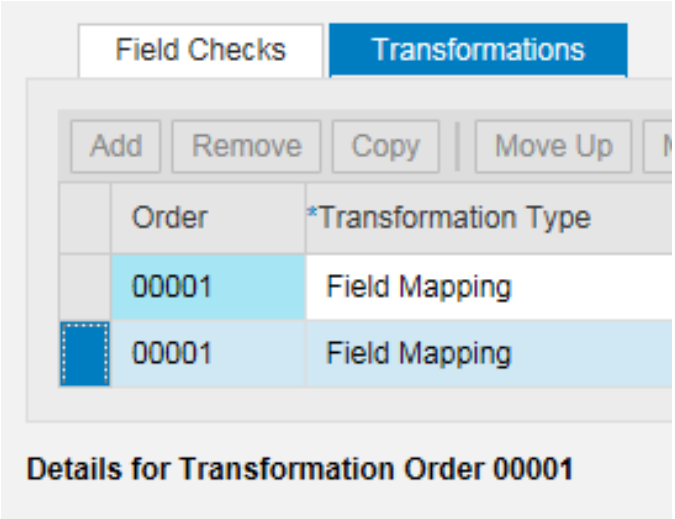
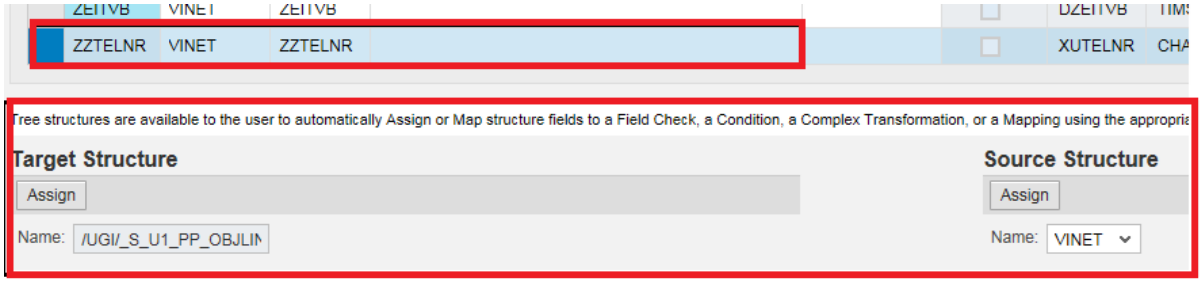
4. Add a mapping step Assign Source Structure OBJLINK and assign Target Structure /UGI/_S_U1_PP_OBJLINK.



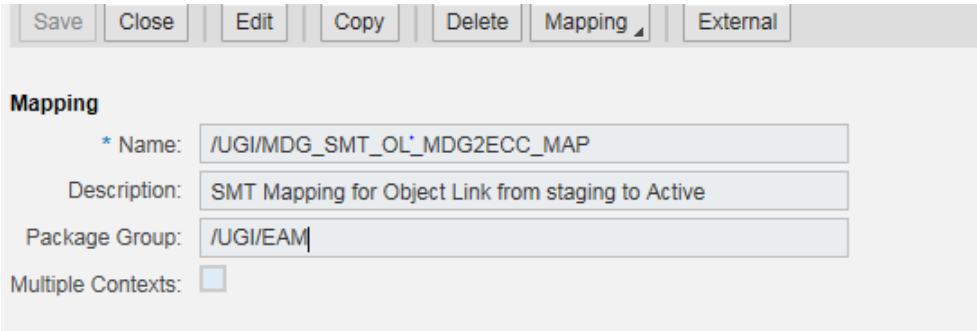


5. Save your changes.

SMT Mapping – Primary Persistence to Staging

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

1. Extend mapping /UGI/MDG_SMT_OL_MDG2ECC_MAP.



2. Select mapping step and choose the “Details” button.
   Map the fields as displayed in the next screen.

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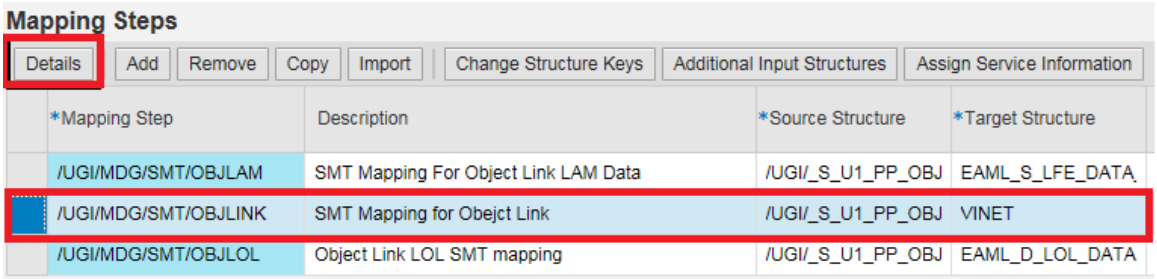
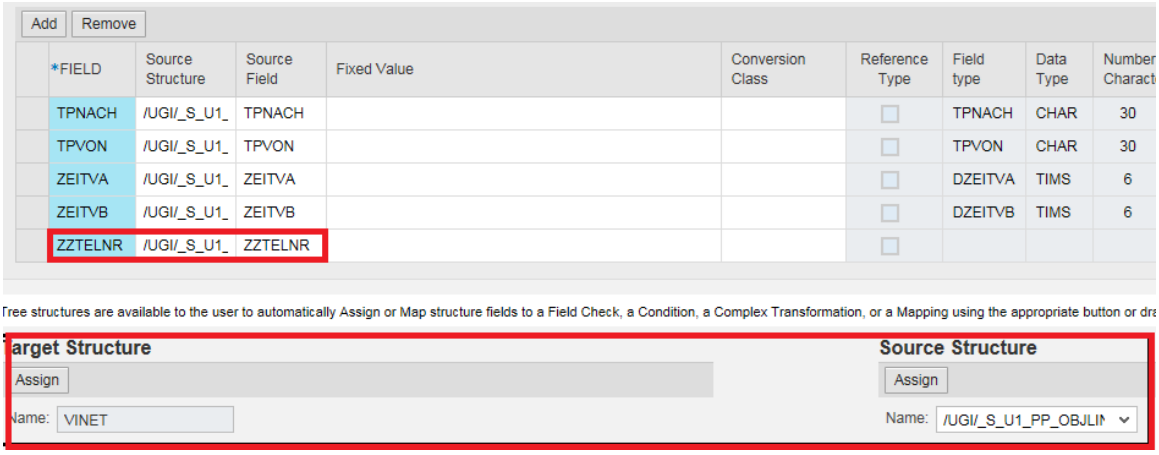


3. Add a mapping step Assign Target Structure VINET. Assign Source Structure /UGI/_S_U1_PP_OBJLINK.

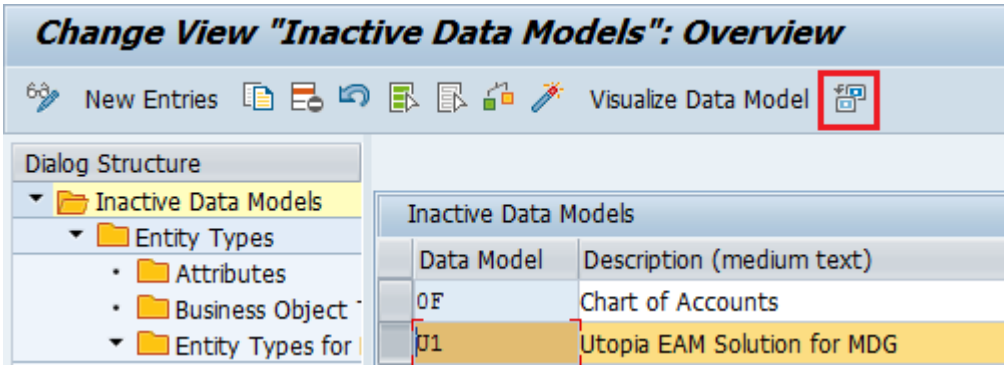


4. Save your changes.

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.

1. 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.

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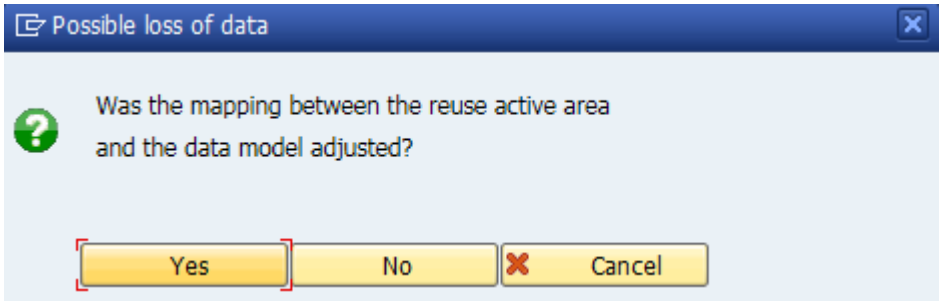


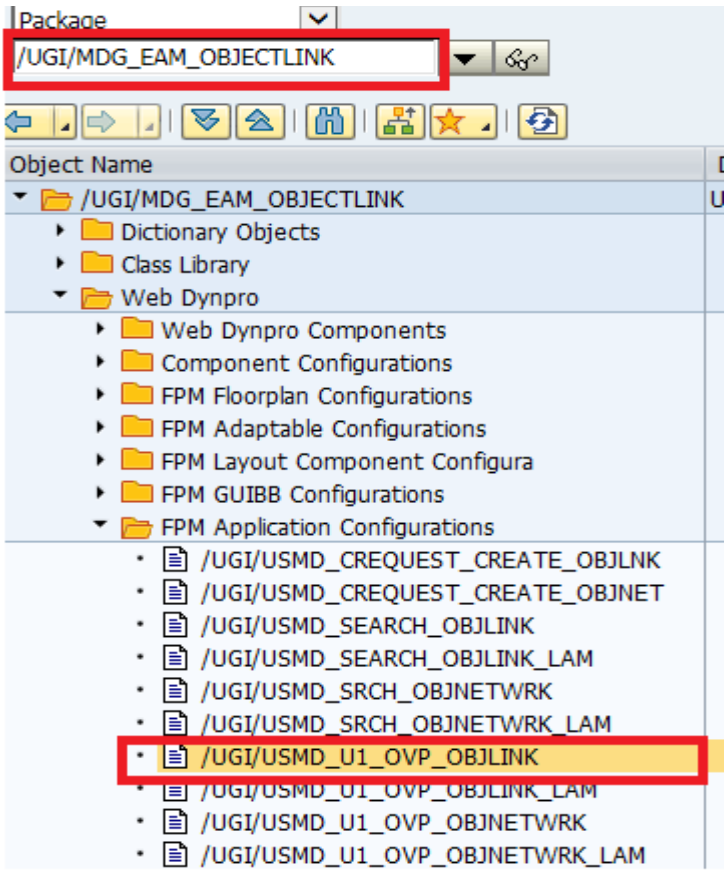
The following message appears.

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

Extending the UI Configuration

Use the following steps to add customization to UI.

1. Start t-codeSE80 > In the drop down select Package > In the input field enter /UGI/MDG_EAM_OBJECTLINK > Navigate to Web Dynpro > FPM Application Configurations > /UGI/USMD_U1_OVP_OBJLINK.



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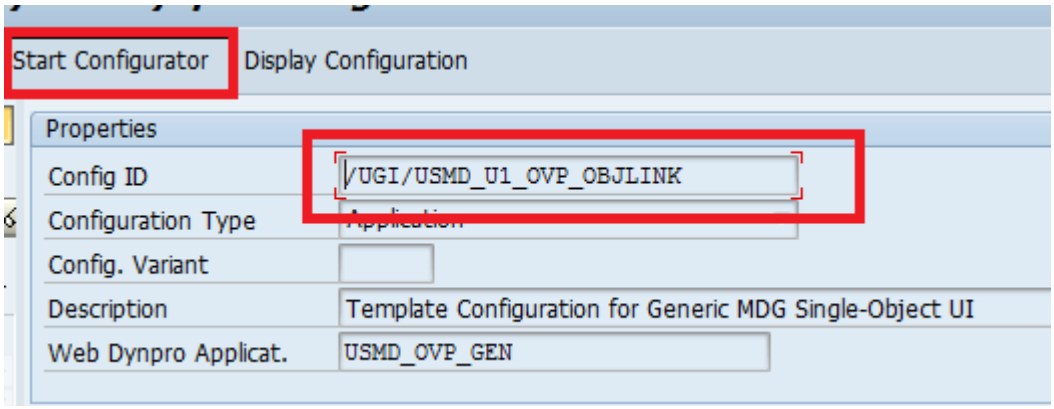
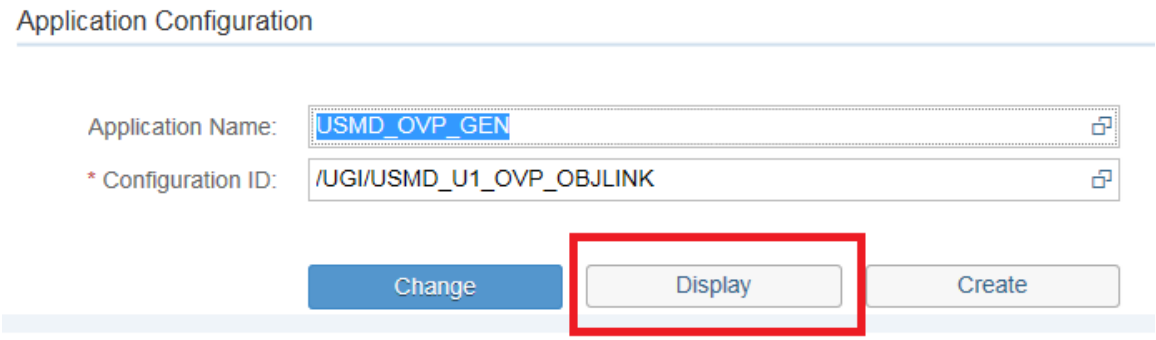
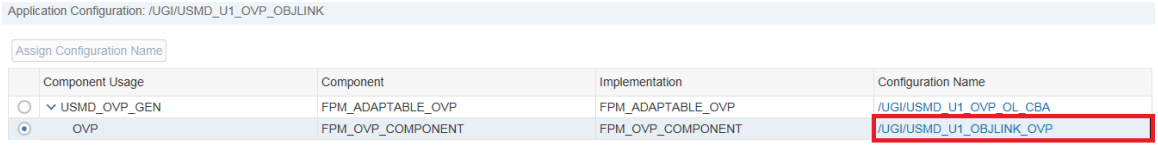
2. Click the “Start Configurator” button.



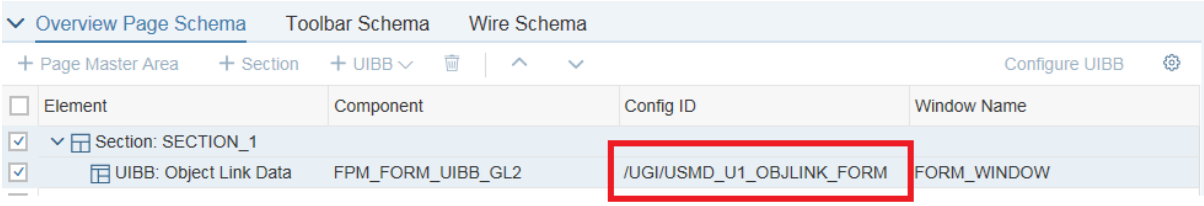
3. In the web browser, click on “Continue in Display Mode”.



4. Click on the configuration /UGI/USMD_U1_OBJLINK_OVP.



5. Select the UIBB where you want to add new attributes and click on “Configure UIBB”.



6. Click on Additional Functions >Create Customizing.

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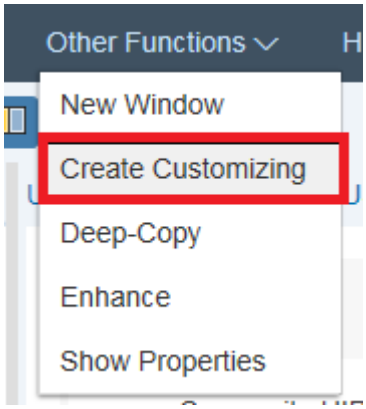
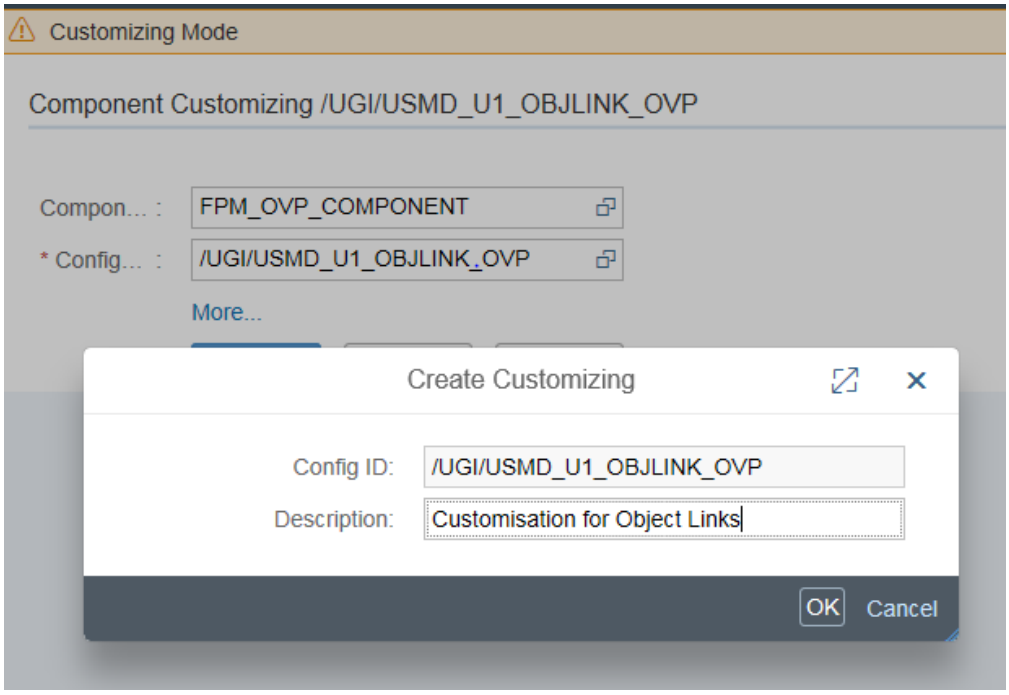
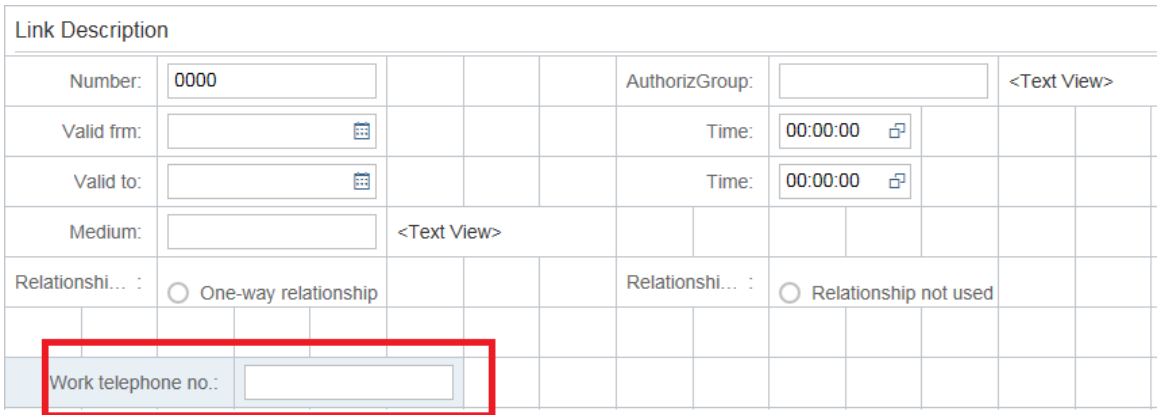


7. Click on OK.



8. Change your UI. Add new fields that was added in entity OBJLINK.



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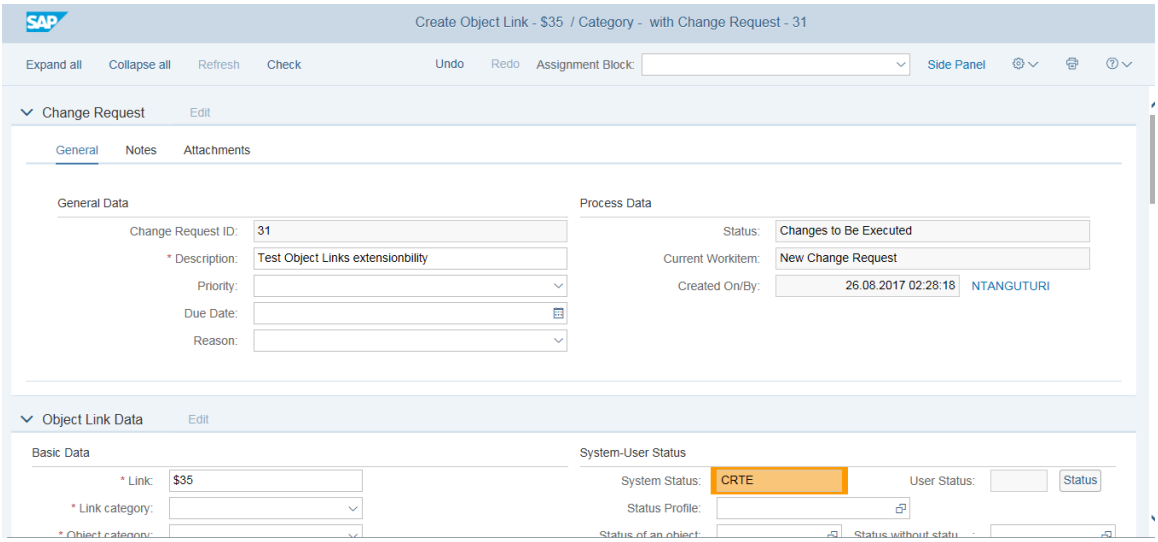
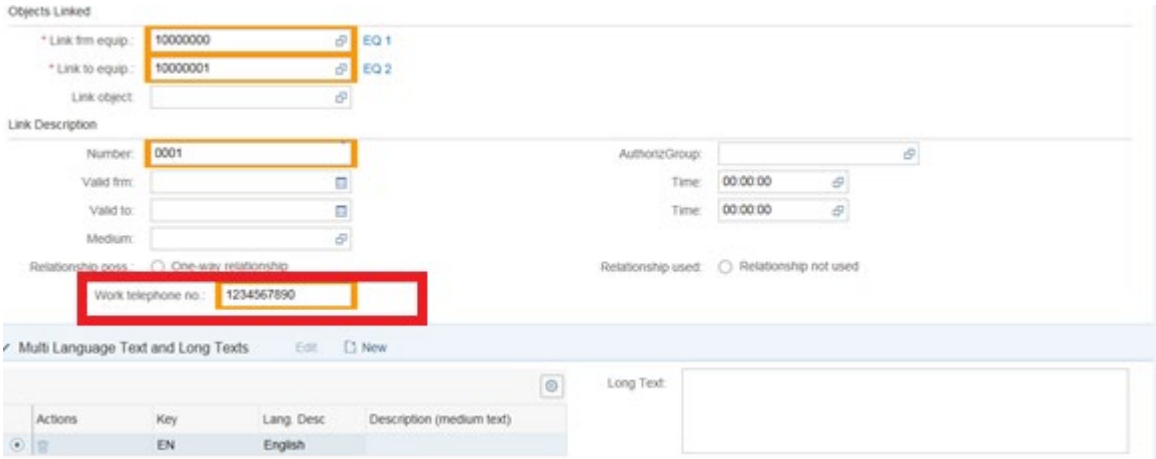
Testing the Configuration

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 1641867- Values for extension field missing after CR activation.

To test your configuration, start the MDG Object Links 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=USMD_U1_OVP_OBJLINK#.





Save and Submit the CR. Finalize processing and Approve.

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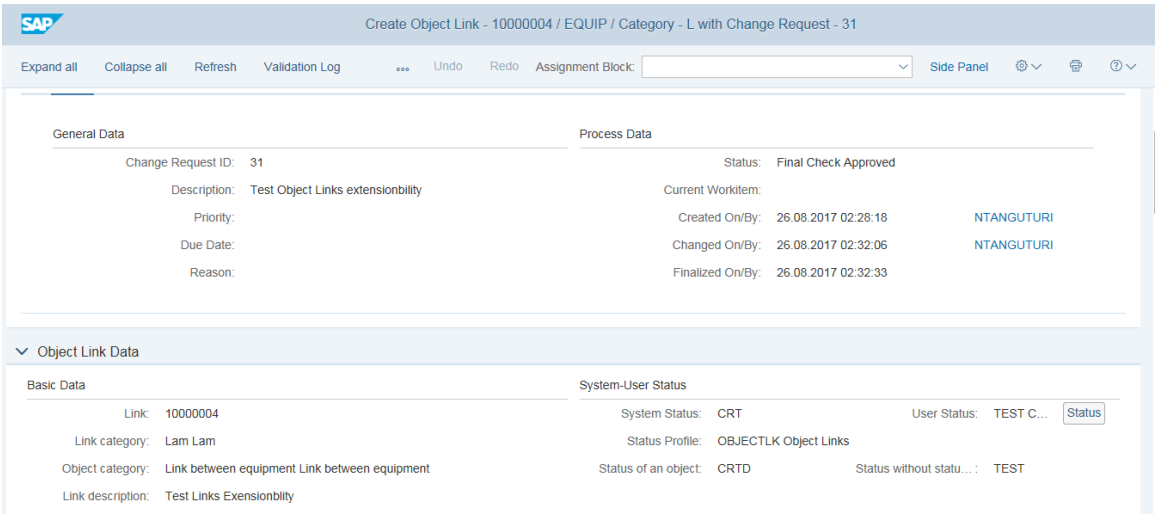
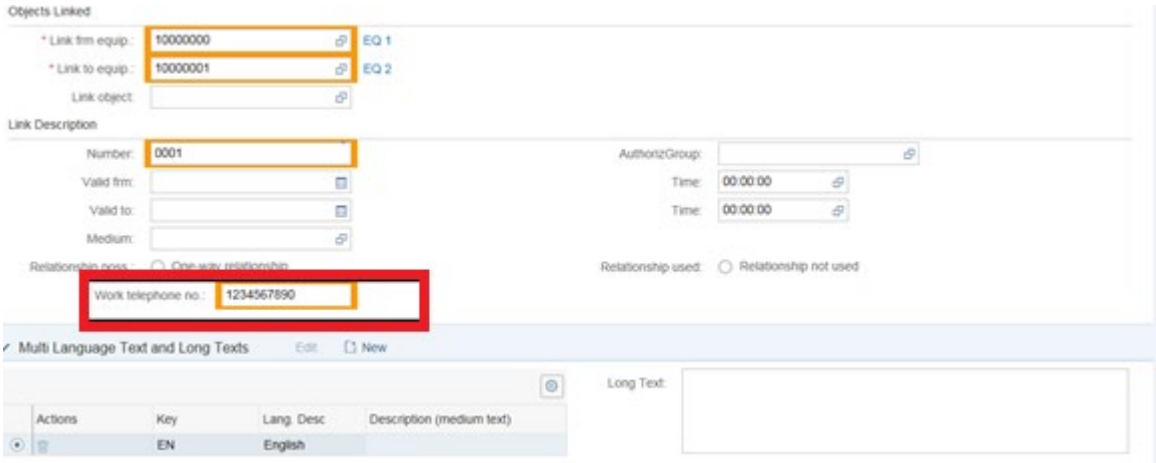
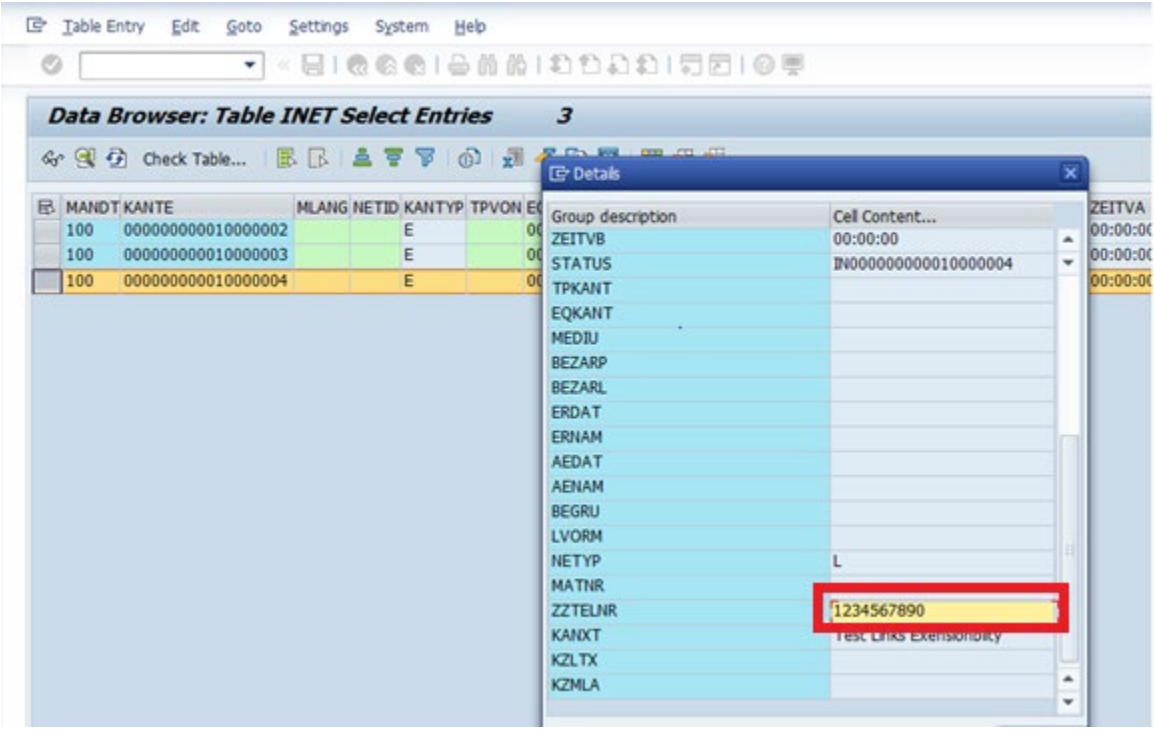




After activation, use t-code SE16 and open table INET. Verify attributes have been transferred correctly.



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