



PUBLIC

How-To: Extend Master Data Governance for Material by a Custom Defined Field (Z-Field, Reuse Option)

Applicable Releases:

From EhP6 for SAP ERP 6.0 and from S/4HANA 1511

Version 6.1

October 2024

Document History

Document Version	Description
1.0	First official release of this guide
2.0	Update of validity, chapter 2 and 3
3.0	Update chapter 5.1.3
4.0	Update Layout (May 2021)
5.0	Elaborate step-by-step description (August 2022)
6.0	Chapter 3.4 Unified Product API Structures (August 2024)
6.1	Update chapter 3.3 (October 2024)

1. INTRODUCTION	4
2. BUSINESS SCENARIO	5
2.1. OVERVIEW	5
2.2. DATA MODEL	5
3. STEP BY STEP EXPLANATION	6
3.1. EXTEND MATERIAL DB-TABLE(S)	6
3.2. ADJUST FIELD SELECTION CUSTOMIZING	7
3.3. EXTEND MDG STRUCTURES	9
3.4. UNIFIED PRODUCT API STRUCTURES	14
3.5. EXTEND MDG DATA MODEL	15
3.6. DEFINE SMT MAPPING	20
3.6.1. <i>Add field mapping at mapping for material data from staging area to active area (MDG_BS_MAT_MAP_2PP)</i>	21
3.6.2. <i>Add field mapping at mapping for material data from active area to staging area (MDG_BS_MAT_MAP_2STA)</i>	31
3.6.3. <i>Further Required Steps</i>	37
3.6.4. <i>Check Mapping Customizing</i>	38
3.7. EXTEND USER INTERFACE	39
3.8. SEARCH	46
4. ADDITIONAL INFORMATION	47
4.1. FURTHER READING	ERROR! BOOKMARK NOT DEFINED.
4.1.1. <i>Information on SAP MDG on SAP S/4HANA</i>	<i>Error! Bookmark not defined.</i>
4.1.2. <i>SAP Roadmap Explorer</i>	<i>Error! Bookmark not defined.</i>
4.1.3. <i>Related Information</i>	<i>Error! Bookmark not defined.</i>
4.2. SAP NOTES	47

1. INTRODUCTION

SAP Master Data Governance (MDG) provides business processes to find, create, change, and mark master data for deletion. It supports the governance of master data in a central hub and the distribution to connected operational and business intelligence systems.

The processes are workflow-driven and can include several approval and revision phases, and the collaboration of all users participating in the master data maintenance.

MDG offers change request (CR)-based processing of master data with integrated workflow, staging, approval, activation, and distribution.

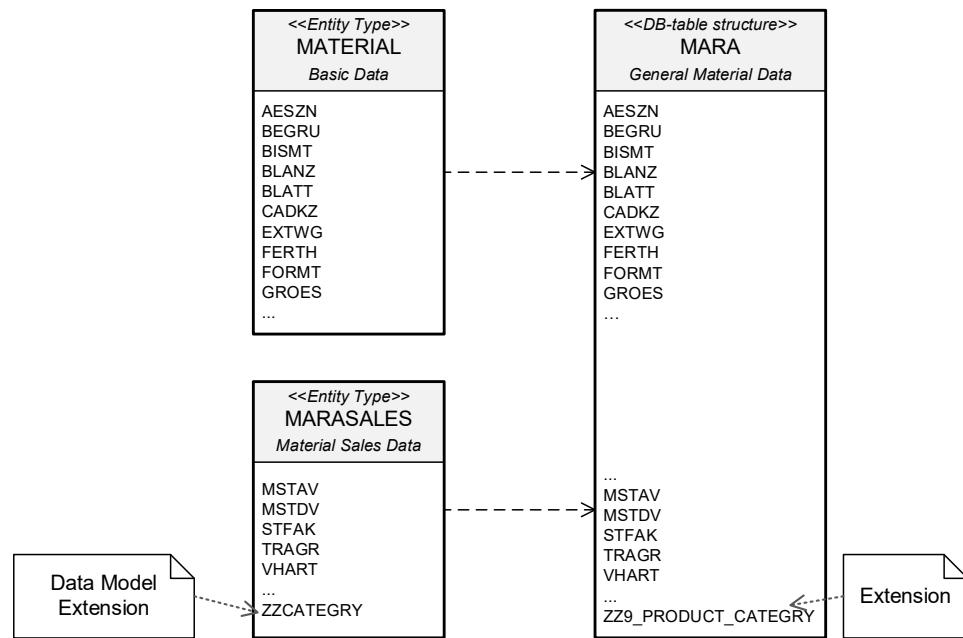
The model MM is preconfigured with one reuse area called MATERIAL. This reuse area points to the access class CL_MDG_BS_MAT_ACCESS, which can handle most fields of the pre-delivered Material Master in ERP or S/4HANA. Starting from S/4HANA 2023, the Unified Product API (UPAPI) CL_CMD_PROD_DATA_API is used instead of calling the classes c1_mdg_bs_*_api for check and save the data.

This How-To Guide describes how to extend the preconfigured content of Master Data Governance for Material (using the data model MM) by adding attributes that already exist as database fields in the appropriate customer include to an existing entity.

2. BUSINESS SCENARIO

2.1. Overview

You would like to extend the MDG data model for Material by an additional custom-defined field. The field should be added to the *Material Sales Data* entity type (MARASALES) respectively backend database table *General Material Data* (MARA) as shown in the figure below.



2.2. Data Model

In SAP Master Data Governance data can be stored in the *staging* area or in the *active* area. The staging area temporarily stores the working version of master data that is undergoing change within a change request process. The active area permanently stores active instances of master data after changes have been approved by a change request process.

Extending the data model in SAP Master Data Governance with custom attributes or tables involves changes to the data structures in the active area **and** in the staging area. It also involves defining a mapping between these data structures.

You can extend the MDG-Material data model by adding attributes that already exist as database fields in the appropriate backend tables. This method of extending the data model is called *MDG reuse option*. Your implementation of the reuse option depends on the backend tables that store the master data after it is activated.

3. STEP BY STEP EXPLANATION

3.1. Extend Material DB-table(s)

Extending a material backend table with a custom field is not described in this guide. References on how this can be achieved are listed in the following.

Documentation	Title	Link
SAP Online Help	Custom Fields App and Custom Logic App	Developing on the ABAP Platform > Development Concept and Tools > Extensibility > Configuration Information > Enabling Custom Database Fields for Usage in SAP Fiori Applications
SAP Online Help	App Extensibility: Manage Product Master	Manage Product Master > App Extensibility: Manage Product Master
Blog	Adding Field in standard Fiori apps of S/4HANA with Custom Fields and Logic	https://blogs.sap.com/2020/02/01/adding-field-in-standard-fiori-apps-of-s-4hana-with-custom-fields-and-logic/
Blog	Appending MARA (adding custom fields)	https://blogs.sap.com/2016/07/08/appending-mara-adding-custom-fields/

For the following chapters of this guide, it is assumed an custom field named ZZ9_PRODUCT_CATEGORY (*Product Category*). Although the MDG data model only supports field names up to nine characters this restriction does not have to be reflected at the backend table. Vice versa fields having a field name length longer than nine chars can be added to the MDG-Material data model.

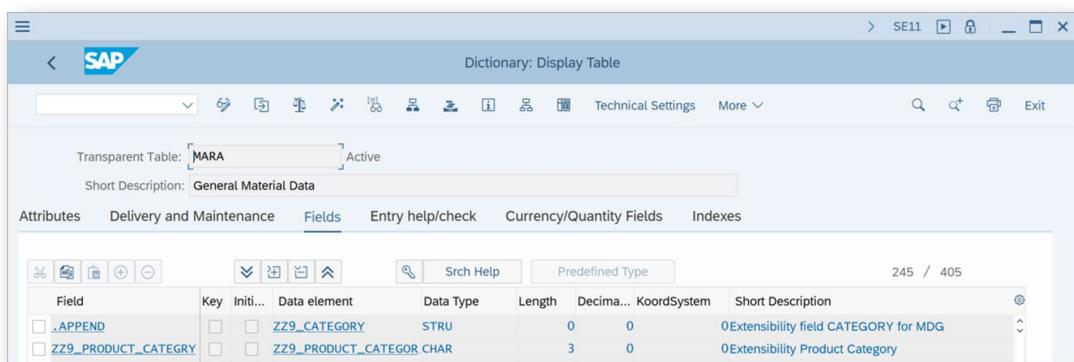


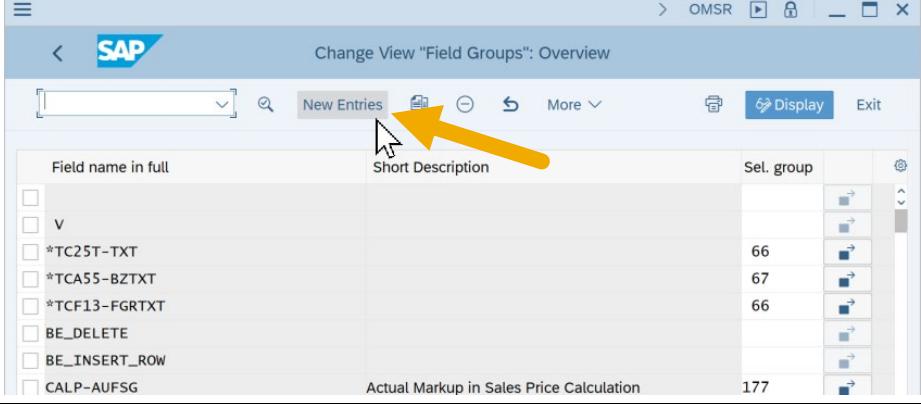
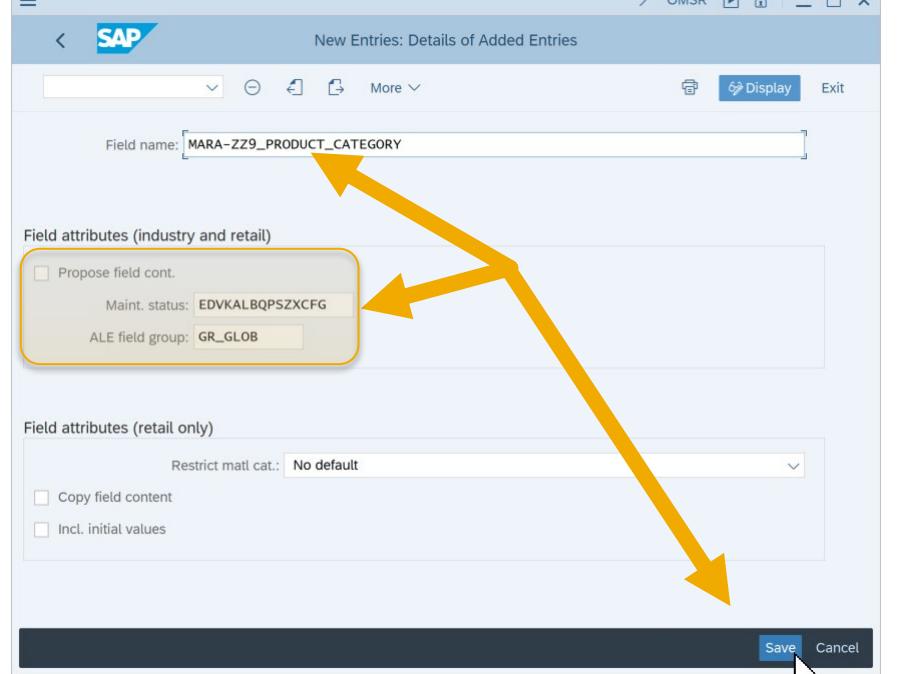
Figure 1 - Extended backend table MARA (custom field)

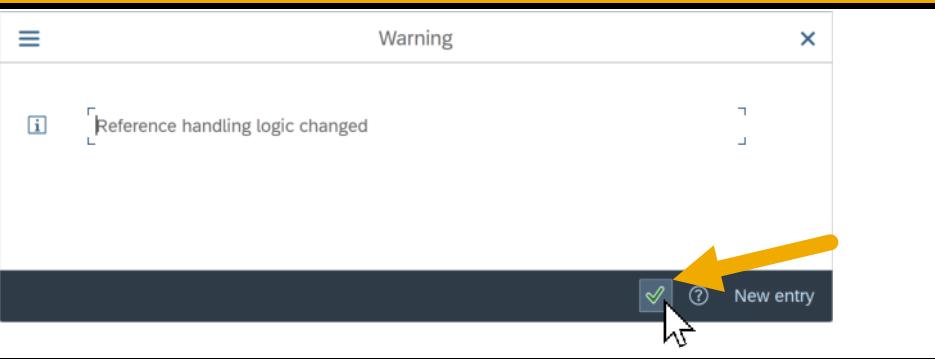
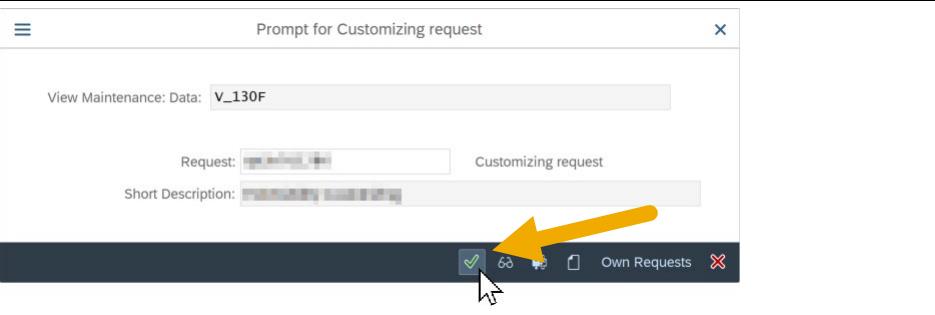
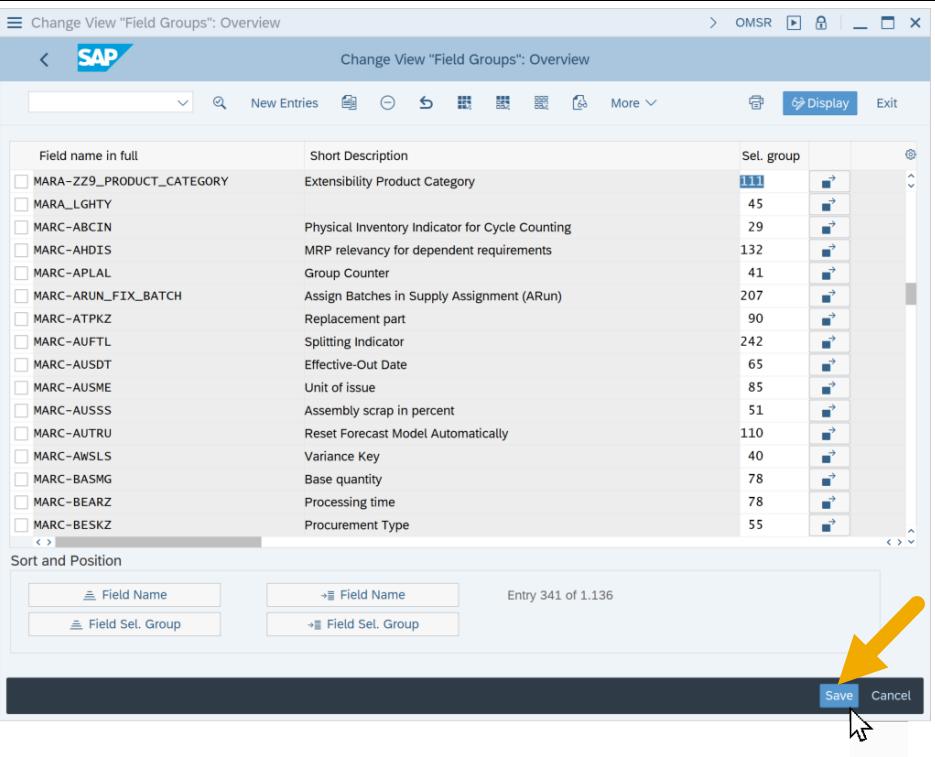
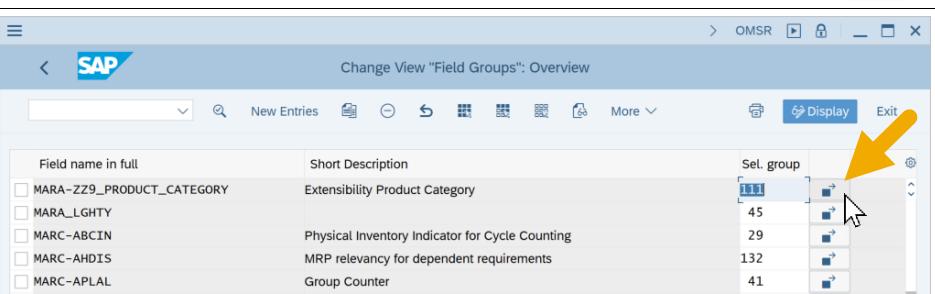
It is also assumed that the underlying domain contains domain fixed values. At MDG-Material UIs these values will be provided as a value help and as value description (shown in the following figures).

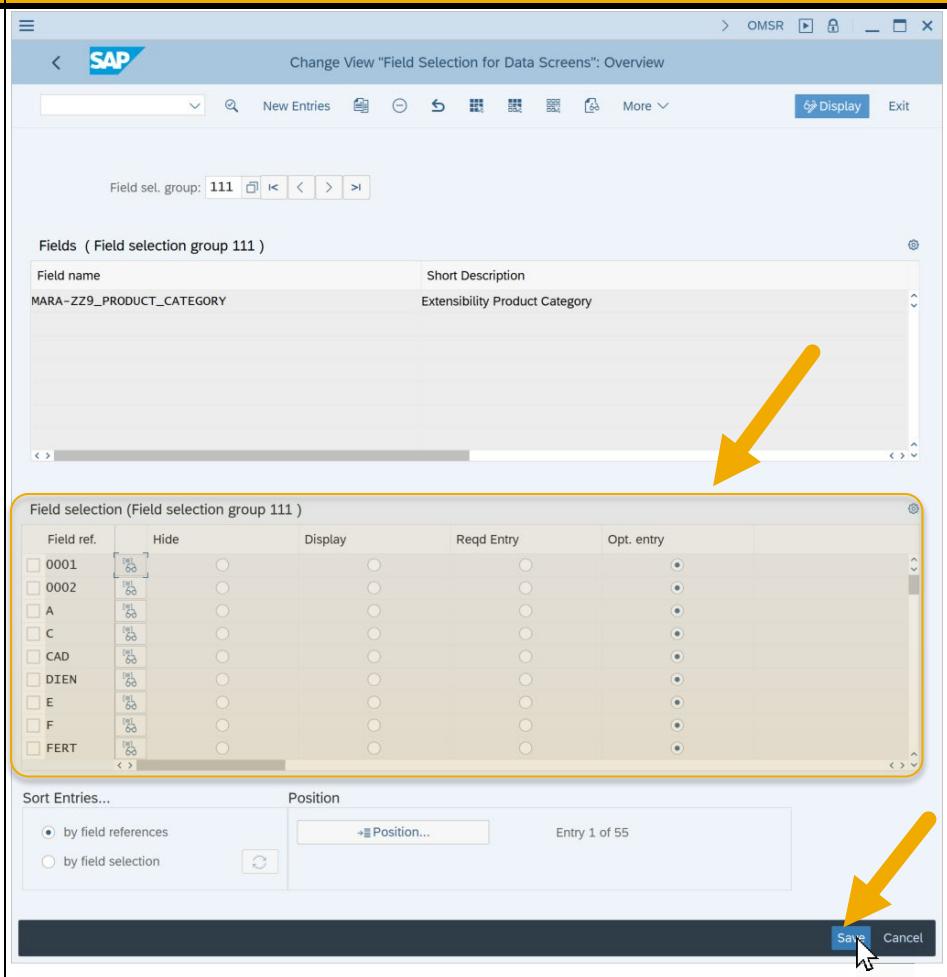
The figure consists of two screenshots of the SAP Fiori Sales application. The top screenshot shows the 'General Data' section with a 'Product Category' field containing the value '200'. An arrow points from this field to a separate 'Search: Product Category' dialog box. The dialog lists categories with descriptions: 100 Main Products, 101 Heavy Metal Products, 102 Tools, 200 Packaging Materials, 201 Cases, 202 Boxes, 300 Co-Products, and 400 Solar Thermal Products. The bottom screenshot shows the same application state after selecting '200' in the value help dialog, where the 'Product Category' field now displays 'Packaging Materials'.

3.2. Adjust Field Selection Customizing

Given a custom-defined field ZZ9_PRODUCT_CATEGORY appended to DB-table MARA (see previous chapter), in the following steps the field selection customizing for this custom-defined field is set up.

Step	Explanation	Screenshot
1	Start transaction SPRO. Navigate to <i>Logistics - General > Material Master > Field Selection > Assign Fields to Field Selection Groups</i> .	
2	Press <i>New Entries</i> .	
3	Enter the following data: <ul style="list-style-type: none"> Field name: MARA-ZZCATEGORY Propose field content: selected Maintenance status: EDVKALBQPSZXCFG ALE field group: GR_BLOB Press Save.	

Step	Explanation	Screenshot
4	In case a warning on 'Reference handling logic changed' occurs acknowledge it with <i>Continue</i> .	
5	You are prompted to record your changes on a customizing request.	
6	Navigate back to the main screen of the customizing activity. Choose a suitable <i>Selection Group</i> for the new entry in the respective column and press <i>Save</i> .	
7	Navigate to the Field Selection Maintenance.	

Step	Explanation	Screenshot
8	Adjust the field selection according to your needs and save your changes.	

3.3. Extend MDG Structures

Since the material DB-table(s) have been extended the following MDG data structures have to be extended too:

- **MDG_BS_MAT_S_MARA**
- **CMD_BS_MAT_S_MARA**

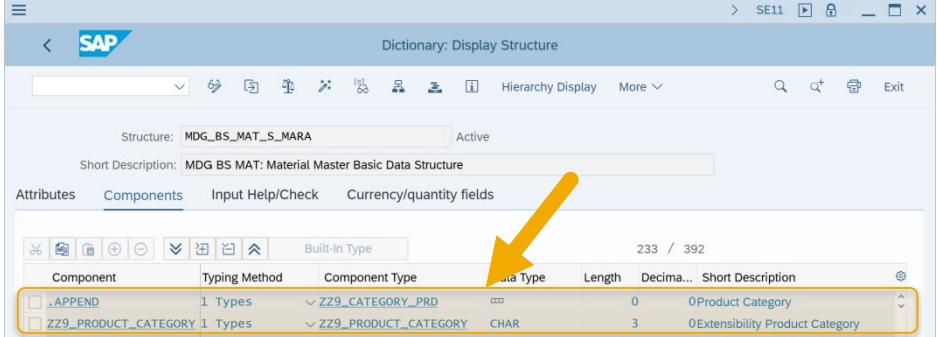
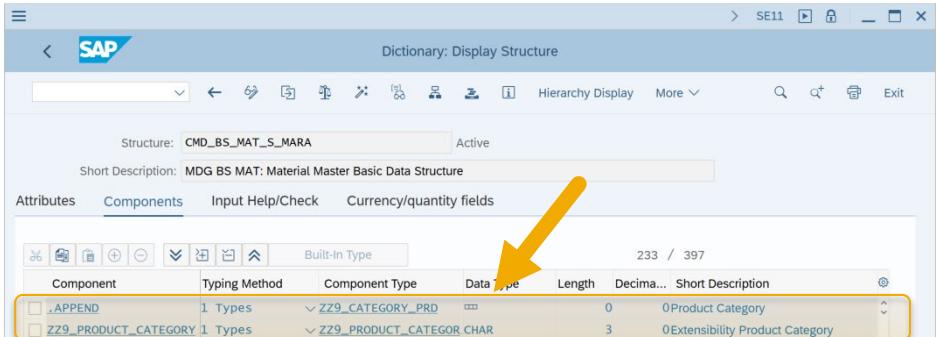
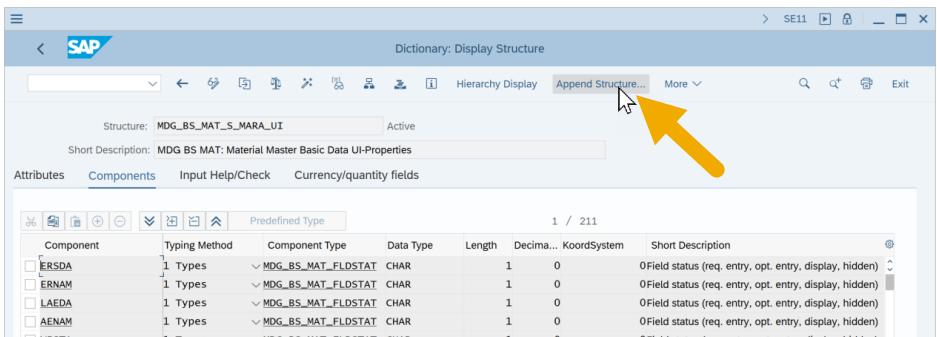
- **MDG_BS_MAT_S_MARA_UI**
- **CMD_BS_MAT_S_MARA_UI**

- **MDG_BS_MAT_S_MARA_X**
- **CMD_BS_MAT_S_MARA_X**

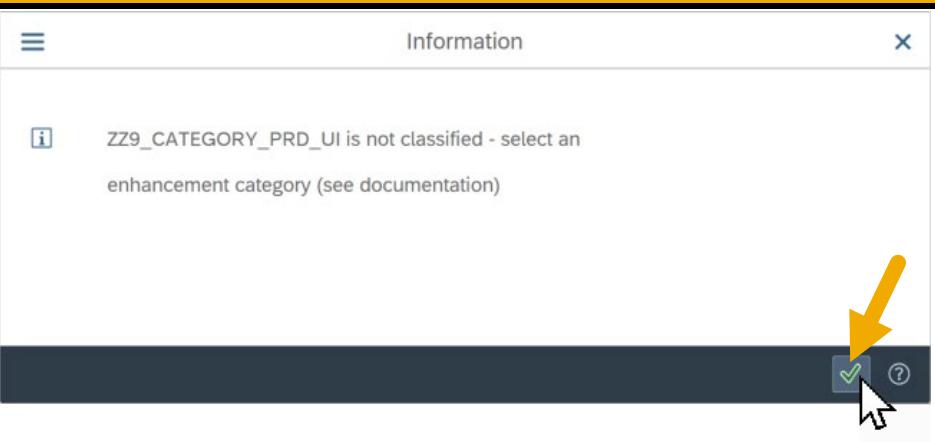
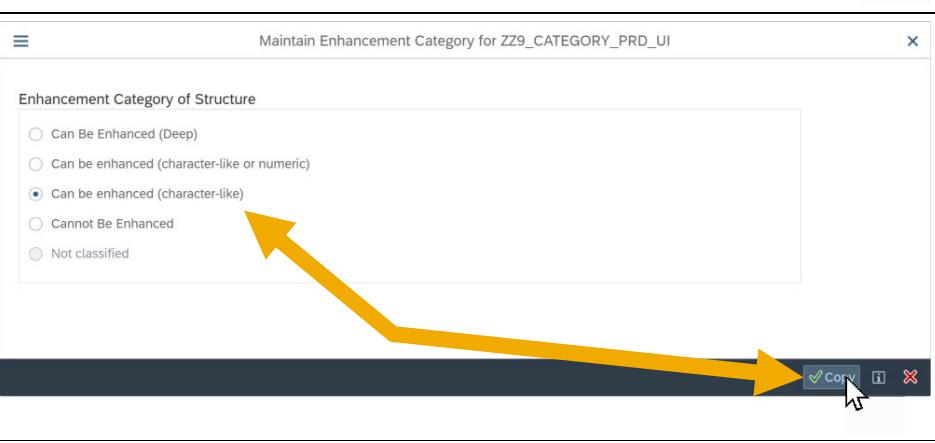
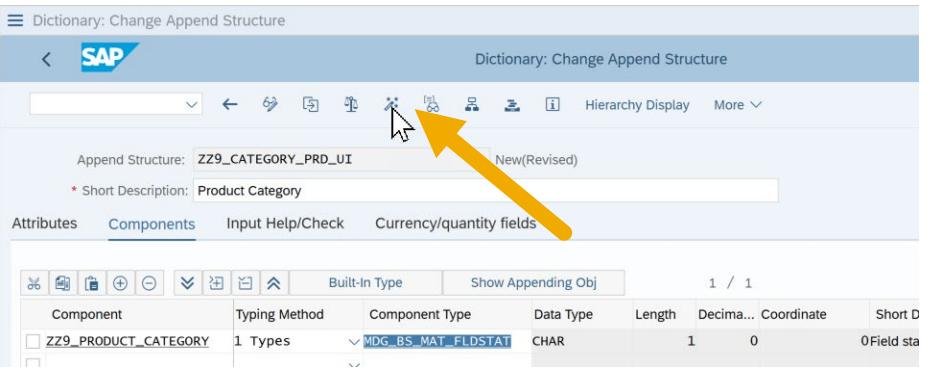
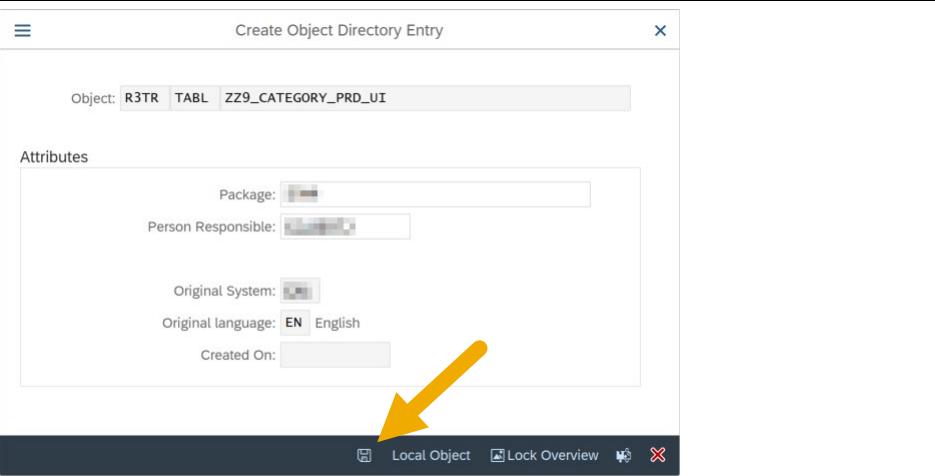
The first two structures (**MDG_BS_MAT_S_MARA** and **CMD_BS_MAT_S_MARA**) should have been automatically adjusted (depending on the approach taken for the extension of material DB-tables, see chapter 3.1). The **_UI** and **_X** structures may need manual handling since there might be no automated adjustment of these.

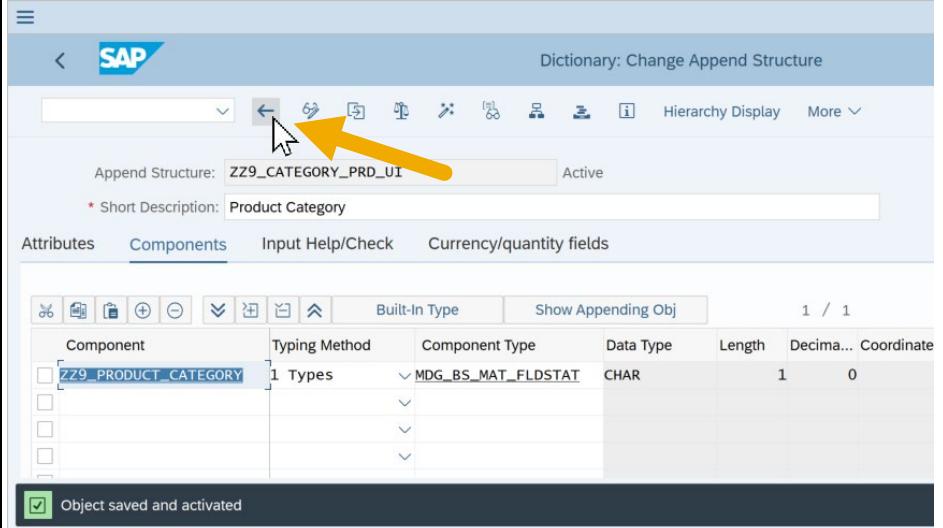
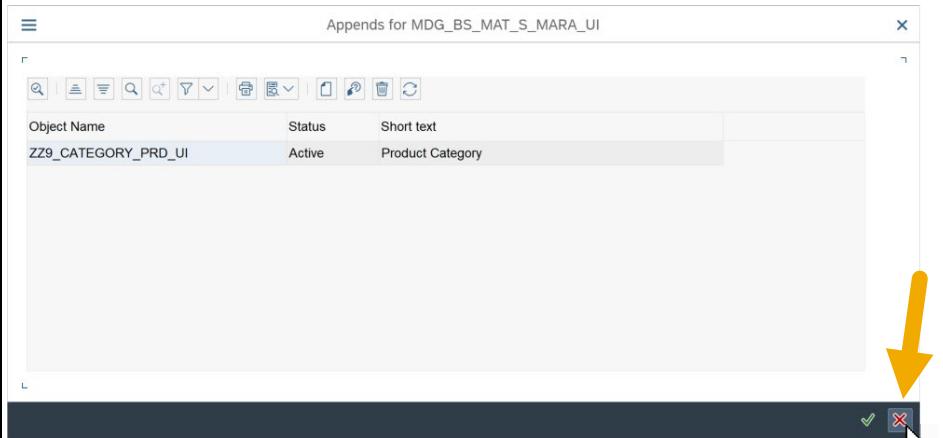
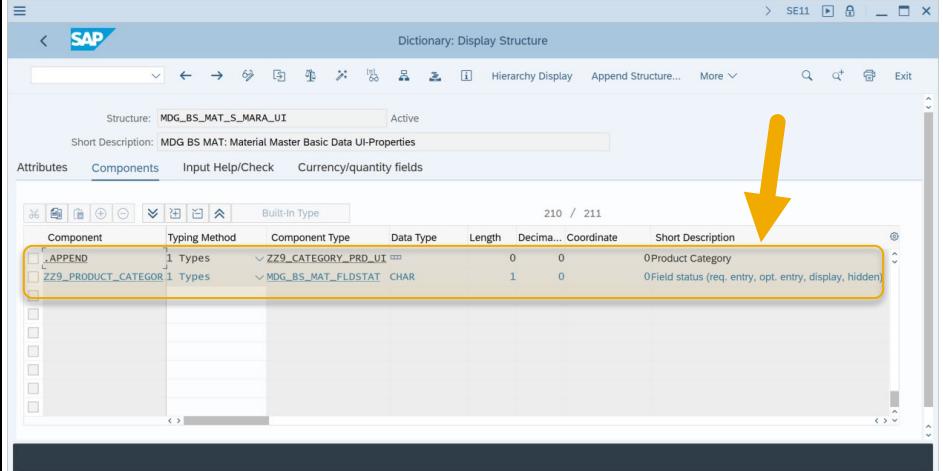
If the **_X** structures are extended after the creation of an SMT mapping, the SMT mapping needs to be regenerated. For more information about SMT see chapter 3.6 Define SMT Mapping.

When using In-app Extensibility also structure **CMD_BS_MAT_S_MARA_X** should have been automatically adjusted. Note that the following steps require development authorization.

Step	Explanation	Screenshot
1	Start transaction SE11 and display structure MDG_BS_MAT_S_MARA . Make sure your append (see chapter 2.1.3) has been added. This should have been done automatically.	
2	Press Other Objects . Enter CMD_BS_MAT_S_MARA and press Continue . Make sure your append has been added. This should have been done automatically.	
3	Press Other Objects . Enter MDG_BS_MAT_S_MARA_UI and press Continue . This structure is typically not automatically adapted when extending DB-table MARA. Press Append Structure .	

Step	Explanation	Screenshot
4	<p>In case there is already at least one append structure you are directed to pop-up <i>Appends for MDG_BS_MAT_S_MARA_UI</i>. Press <i>Create</i>.</p> <p>In case there is no append structure yet pop-up <i>Create Append Structure ...</i> is displayed directly. Enter the name of the append structure as used in structure MDG_BS_MAT_S_MARA (in this example ZZ9_CATEGORY_PRD) plus a prefix like '_UI' (the exact same name cannot be used again). Press <i>Continue</i>.</p>	
5	<p>Enter the following values:</p> <ul style="list-style-type: none"> Short Description: the one used in MDG_BS_MAT_S_MARA Component: ZZ9_PRODUCT_CATEGORY Typing Method: Types Component Type: MDG_BS_MAT_FLDSTAT 	
6	<p>Navigate to <i>Extras > Enhancement Category</i>.</p>	

Step	Explanation	Screenshot
7	Acknowledge the information that an enhancement category is not classified yet by pressing <i>Continue</i> .	
8	Select enhancement category <i>Can be enhanced (character-like)</i> and press <i>Copy</i> .	
9	Press <i>Activate</i> .	
10	Enter suitable data for creating a object directory entry and press <i>Save</i> .	

Step	Explanation	Screenshot
11	<p>Navigate back to structure MDG_BS_MAT_S_MARA_UI.</p> <p>(You might need to navigate back twice since pop-up <i>Appends for ...</i> might be displayed when navigating back. Press <i>Cancel</i> in this pop-up.)</p>	 
12	<p>Structure MDG_BS_MAT_S_MARA_UI should now contain the just created append.</p>	

Step	Explanation	Screenshot
13	<p>Repeat steps 3 to 11 for the following structures:</p> <ul style="list-style-type: none"> • CMD_BS_MAT_S_MARA_UI • MDG_BS_MAT_S_MARA_X <p>You might want to use the following naming approach for the appends:</p> <ul style="list-style-type: none"> • ZZ9_CATEGORY_PRD_CMD_UI • ZZ9_CATEGORY_PRD_X • ZZ9_CATEGORY_PRD_CMD_X 	
13	<p>Repeat steps 3 to 11 for include PRD_INCL_EEW_X in structure CMD_BS_MAT_S_MARA_X.</p>	

3.4. Unified Product API Structures

Starting from S/4HANA 2023, the Unified Product API (UPAPI) CL_CMD_PROD_DATA_API is used instead of calling the classes cl_mdg_bs_*_api for check and save the data. Make sure that your field is also included there.

If you have extended your Z-Field in an append, it should be automatically included in the structures. However, if your new field is a standard field that is not included in the data model MM yet, you will need to check if it is included in the UPAPI structures. Some fields, such as industry fields, may not be supported yet with the UAPI, in which case you will need to extend the structure manually. Additional checks for the added fields are possible with BADI_MATERIAL_CHECK.

Structure for MARA are:

- PMD_S_PRODUCT – General broad PSTAT
- PMD_S_PRD_SALES
- PMD_S_PRD_PROC
- PMD_S_PRD_STORAGE
- PMD_S_PRD_QM
- PMD_S_PROD_SCM

The organization dependent structures can be found with PMD_S_PRD*.

Note: It is important to verify the presence of SAP Notes [3462156](#), [3472661](#), and [3450903](#) in the system to ensure the use for the extension fields. Check SAP Note [3371448](#) for Upgrade and Conversion to SAP S/4HANA 2023 and for more SAP Notes.

Note: Check for the enablement of these fields in the UAPI with every upgrade to a new release. If the fields are enabled, then in the PMD* structures, the extensions should be removed accordingly.

3.5. Extend MDG Data Model

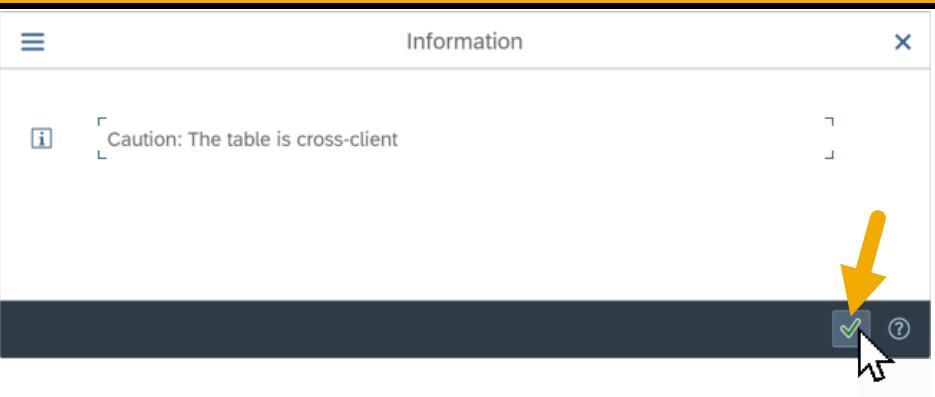
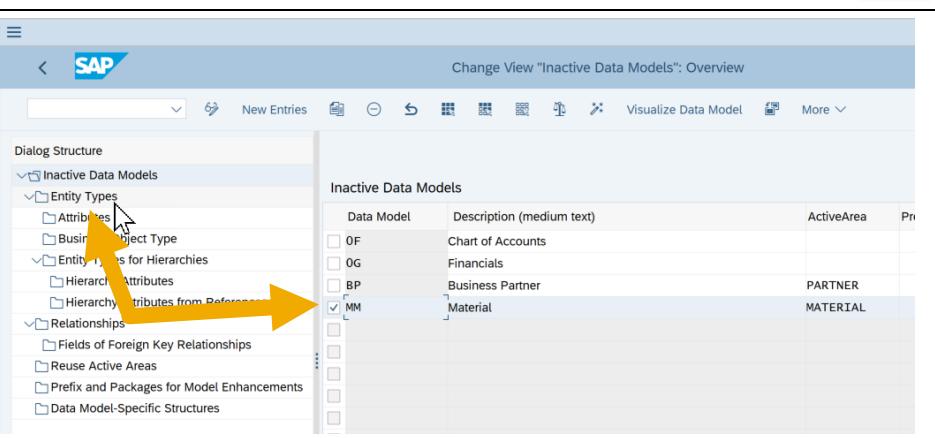
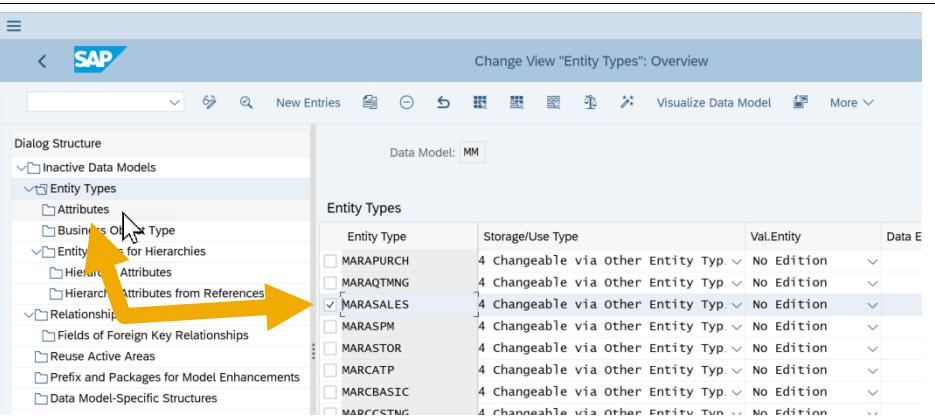
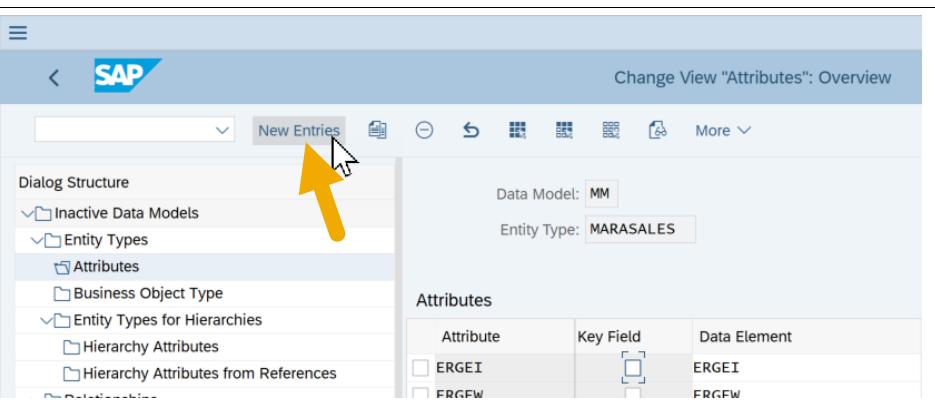
The material DB-table(s) as well as the structure extension have been prepared (see chapters 2.1 and 2.3). Now the MDG-Material data model needs to be extended. Note that the following steps require authorizations for cross-client customizing maintenance. In addition, the steps need to be performed in an appropriate client (cross-client customizing client).

MDG data models are defined in the customizing. The system uses these data models to generate database tables which temporarily store the working version of master data that is undergoing change within a change request process. In the following steps it is described how to enhance the delivered data model MM.

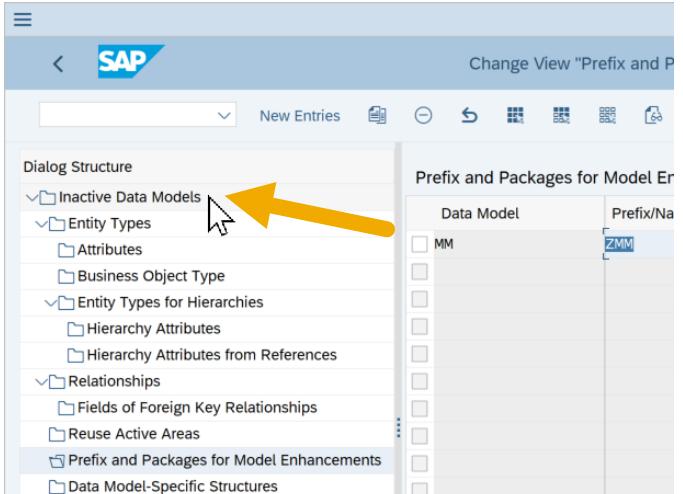
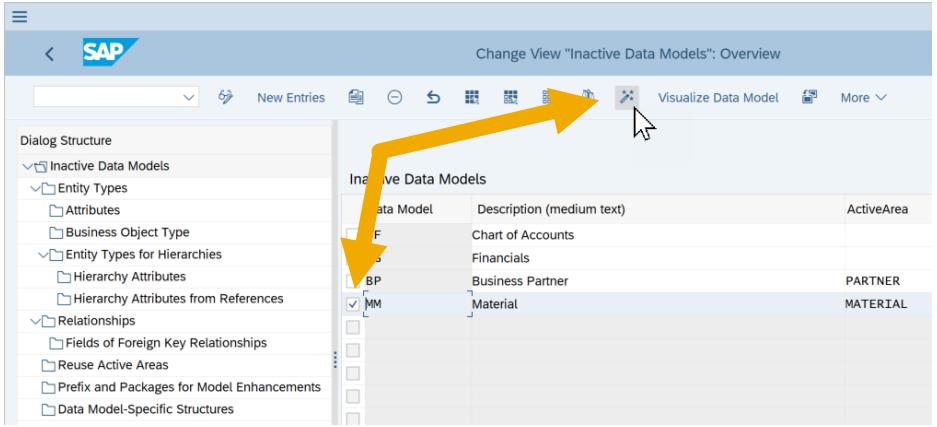
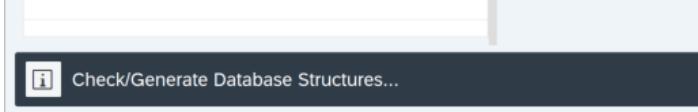
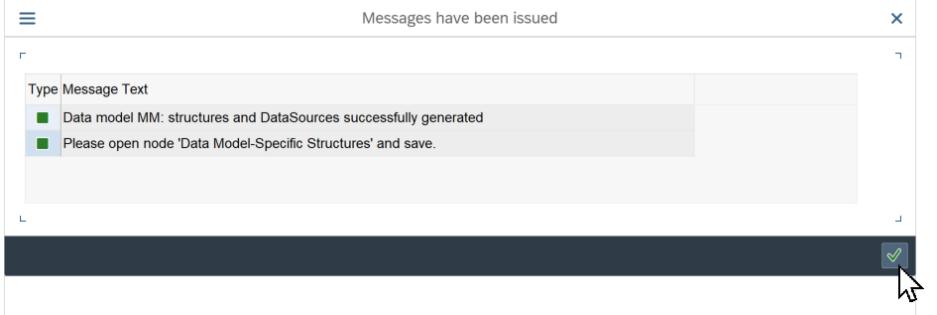
The following aspects are covered:

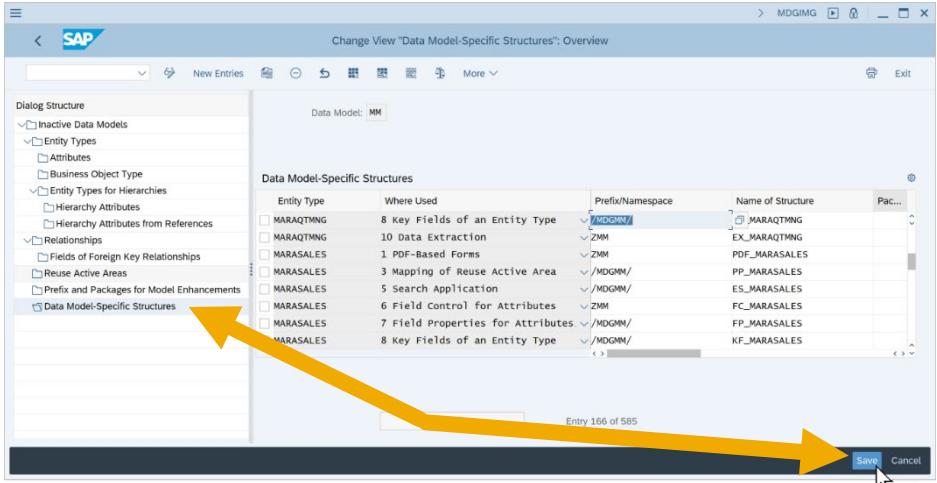
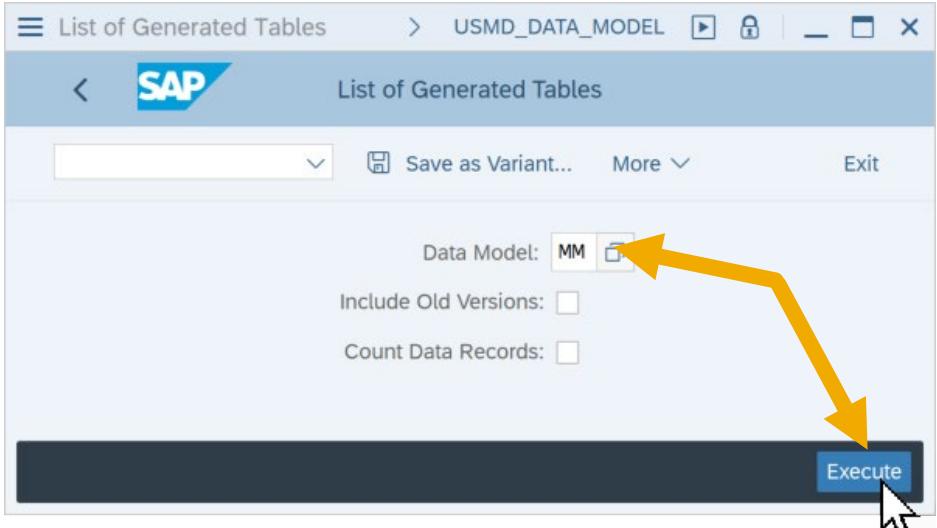
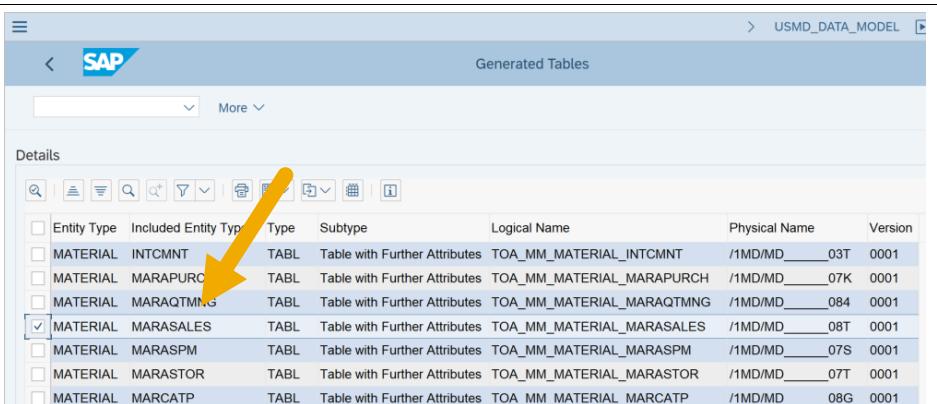
- Add a new attribute for the custom-defined field (ZZ9_PRODUCT_CATEGORY) in data model MM for entity type MARASALES. Steps 1 to 7
- Define a prefix and package for model enhancements Steps 8 to 10
- Activate the data model changes Steps 11 to 15
- Check generated tables Steps 16 to 18

Step	Explanation	Screenshot
1	<p>Start transaction MDGIMG. Navigate to <i>General Settings</i> > <i>Data Modeling</i> > <i>Edit Data Model</i>.</p> <p>(In this Customizing activity, you define and activate a data model to map master data in the system, along with its properties and relationships.)</p>	<p>The screenshot shows the SAP Fiori launchpad with the 'Structure' section selected. Under 'Data Modeling', the 'Edit Data Model' option is highlighted with a yellow arrow. Other options shown include 'Define Business Object Type Codes', 'Define Entity Type to Be Used by Business Object Type', 'Define Prefixes for Internal Key Assignment', 'Define Authorization Relevance per Entity Type', 'Generate Data Model-Specific Structures', 'Create and Edit Mappings', and 'Extend Mappings'.</p>

Step	Explanation	Screenshot
2	Acknowledge the information that this customizing is cross-client customizing.	
3	Select data model MM and navigate to <i>Entity Types</i> .	
4	Select Entity Type MARASALES and navigate to <i>Attributes</i> .	
5	Press <i>New Entries</i> .	

Step	Explanation	Screenshot
6	<p>Enter the following data:</p> <ul style="list-style-type: none"> Attribute: ZZCATEGRY Data Element: ZZ9_PRODUCT_CATEGORY <p>(You might notice that the attribute name can only have nine characters in the MDG data model while it can have more chars in the backend.)</p>	
7	Press Save.	
8	Navigate to <i>Prefix and Packages for Model Enhancements</i> .	
9	<p>Enter the following data:</p> <ul style="list-style-type: none"> (Data Model: MM) Prefix/Namespace: ZMM Package for Customer Include: \$TMP <p>You might want to select another package so that you extension(s) can be transported.</p>	
10	Press Save.	

Step	Explanation	Screenshot
11	Navigate back to <i>Inactive Data Models</i> .	
12	Select data model MM and press Activate .	
13	The activation takes some time.	
14	After activation information messages are displayed.	

Step	Explanation	Screenshot
15	Following the instruction given in the pop-up in step 14 navigate to <i>Data Model-Specific Structures</i> and press <i>Save</i> .	
16	Execute report USMD_DATA_MODEL. Select data model MM and press <i>Execute</i> .	
17	Double-click on MARASALES.	

Step	Explanation	Screenshot																																										
18	The custom-defined field (here /1MD/MMZZCATEGRY) should be part of the transparent table.	<p>Dictionary: Display Table</p> <p>Transparent Table: /1MD/MD_____08T Active</p> <p>Short Description: MM At/Rel MATERIAL / MARASALES</p> <p>Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields Indexes</p> <table border="1"> <thead> <tr> <th>Field</th> <th>Key initia...</th> <th>Data element</th> <th>Data Type</th> <th>Length</th> <th>Decima...</th> <th>Short Description</th> </tr> </thead> <tbody> <tr> <td>/1MD/MMSTFAK</td> <td></td> <td>STFAK</td> <td>INT2</td> <td>5</td> <td>0</td> <td>Stacking factor</td> </tr> <tr> <td>/1MD/MMTRAGR</td> <td></td> <td>TRAGR</td> <td>CHAR</td> <td>4</td> <td>0</td> <td>Transportation Group</td> </tr> <tr> <td>/1MD/MMVHART</td> <td></td> <td>VHART</td> <td>CHAR</td> <td>4</td> <td>0</td> <td>Packaging Material Type</td> </tr> <tr> <td>/1MD/MMVOLTO</td> <td></td> <td>VOLTO</td> <td>DEC</td> <td>3</td> <td>1</td> <td>Excess Volume Tolerance of the Handling Unit</td> </tr> <tr> <td>/1MD/MMZZCATEGRY</td> <td></td> <td>ZZ9_PRODUCT_CATEGORY</td> <td>CHAR</td> <td>3</td> <td>0</td> <td>Extensibility Product Category</td> </tr> </tbody> </table>	Field	Key initia...	Data element	Data Type	Length	Decima...	Short Description	/1MD/MMSTFAK		STFAK	INT2	5	0	Stacking factor	/1MD/MMTRAGR		TRAGR	CHAR	4	0	Transportation Group	/1MD/MMVHART		VHART	CHAR	4	0	Packaging Material Type	/1MD/MMVOLTO		VOLTO	DEC	3	1	Excess Volume Tolerance of the Handling Unit	/1MD/MMZZCATEGRY		ZZ9_PRODUCT_CATEGORY	CHAR	3	0	Extensibility Product Category
Field	Key initia...	Data element	Data Type	Length	Decima...	Short Description																																						
/1MD/MMSTFAK		STFAK	INT2	5	0	Stacking factor																																						
/1MD/MMTRAGR		TRAGR	CHAR	4	0	Transportation Group																																						
/1MD/MMVHART		VHART	CHAR	4	0	Packaging Material Type																																						
/1MD/MMVOLTO		VOLTO	DEC	3	1	Excess Volume Tolerance of the Handling Unit																																						
/1MD/MMZZCATEGRY		ZZ9_PRODUCT_CATEGORY	CHAR	3	0	Extensibility Product Category																																						

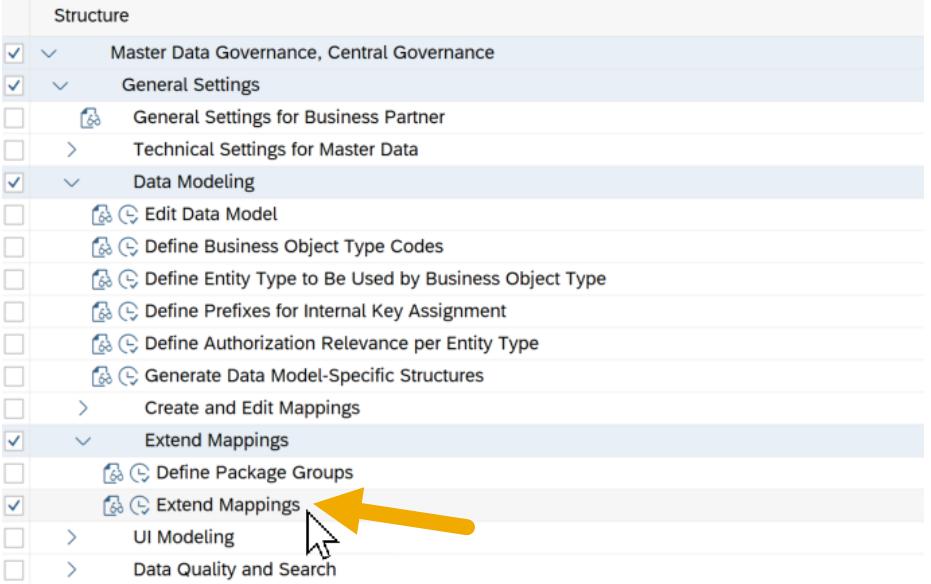
3.6. Define SMT Mapping

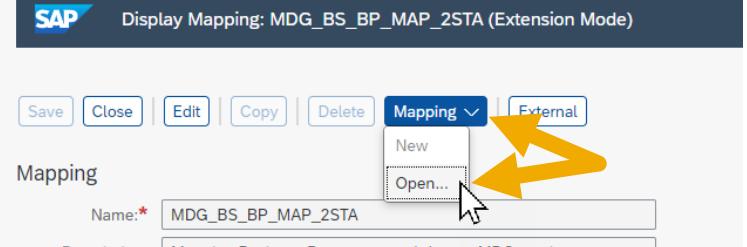
The following aspects are covered in this chapter:

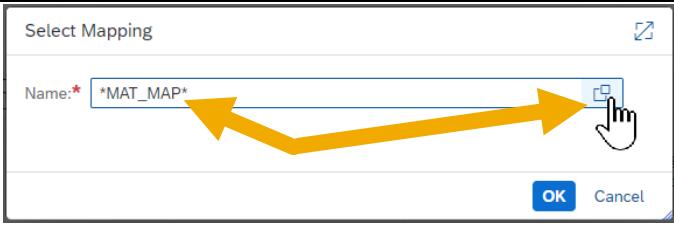
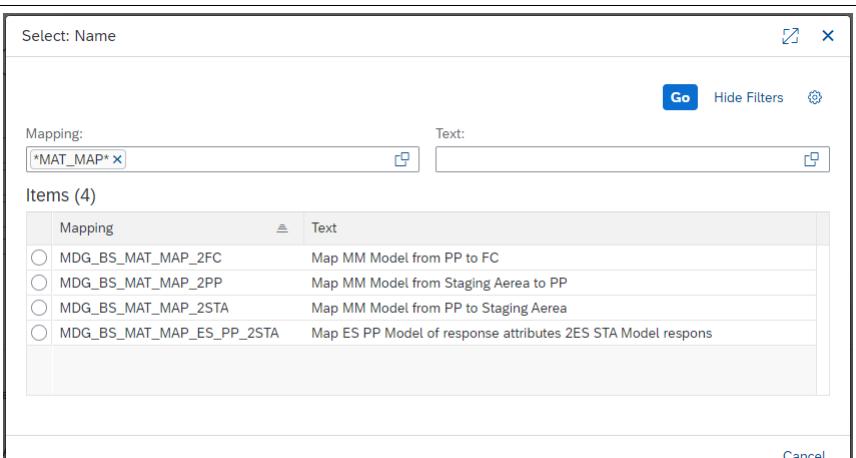
- Add a field mapping for the custom field (ZZCATEGRY) in mapping MDG_BS_MAT_MAP_2PP. 2.5.1
- Add a field mapping for the custom field (ZZCATEGRY) in mapping MDG_BS_MAT_MAP_2PP 2.5.2
- Adjust Staging Area of Linked Change Requests and Clear UI Metadata Buffers 2.5.3
- Check mapping customizing 2.5.4

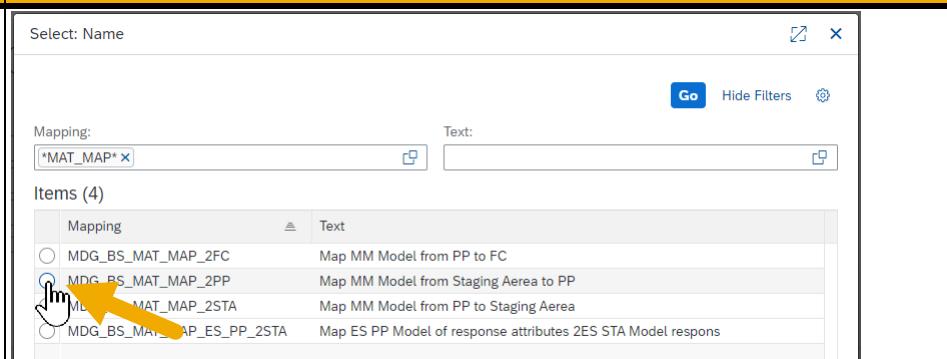
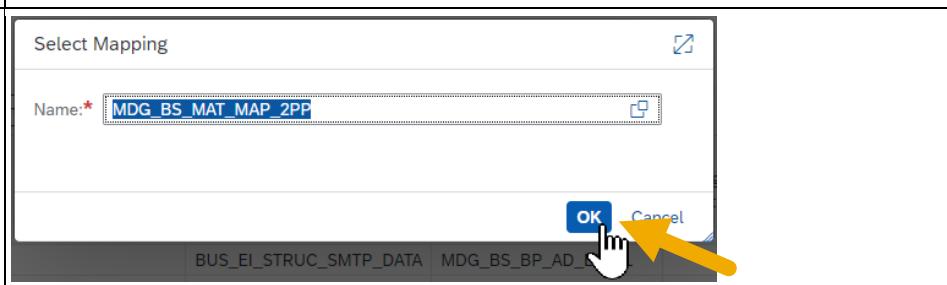
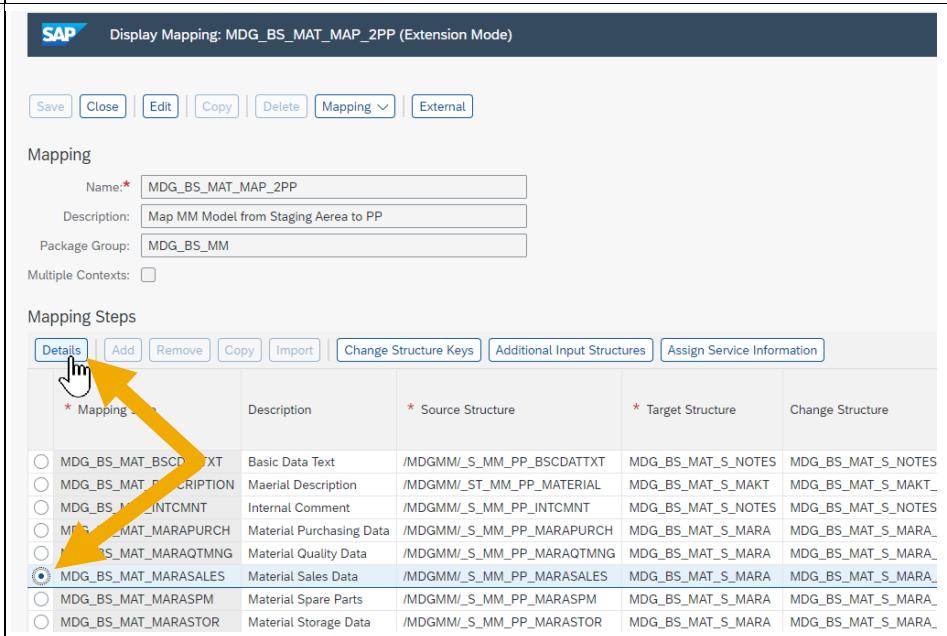
Note that these steps require authorizations for cross-client customizing maintenance. In addition, the steps need to be performed in an appropriate client (cross-client customizing client).

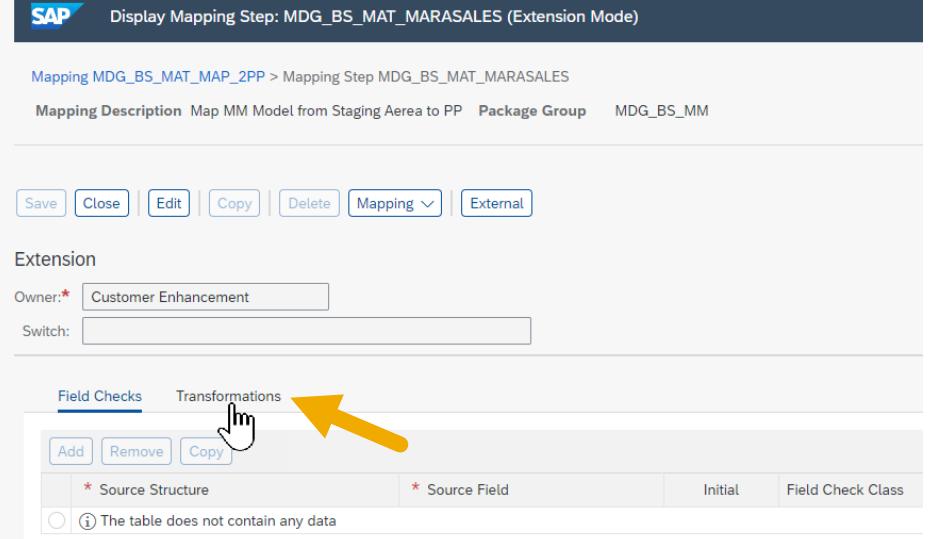
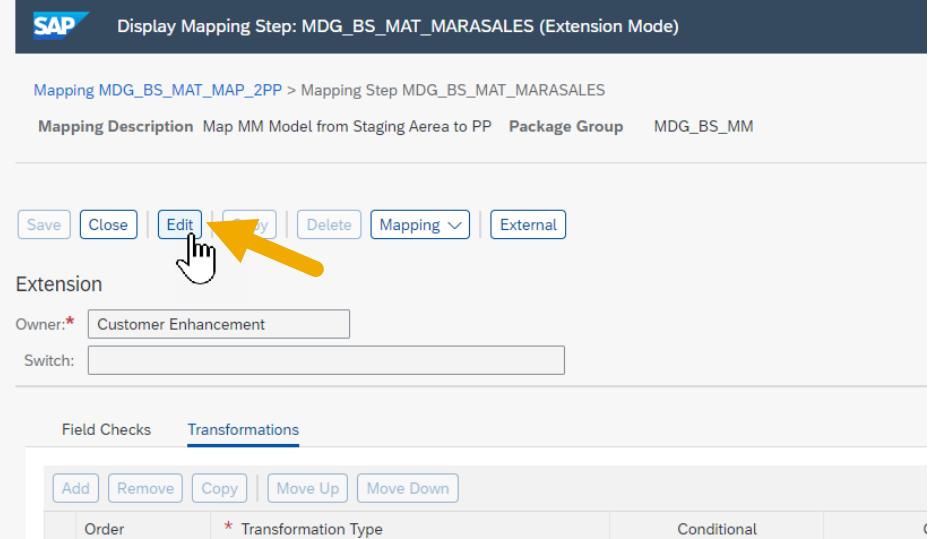
**3.6.1. Add field mapping at mapping for material data from staging area to active area
(MDG_BS_MAT_MAP_2PP)**

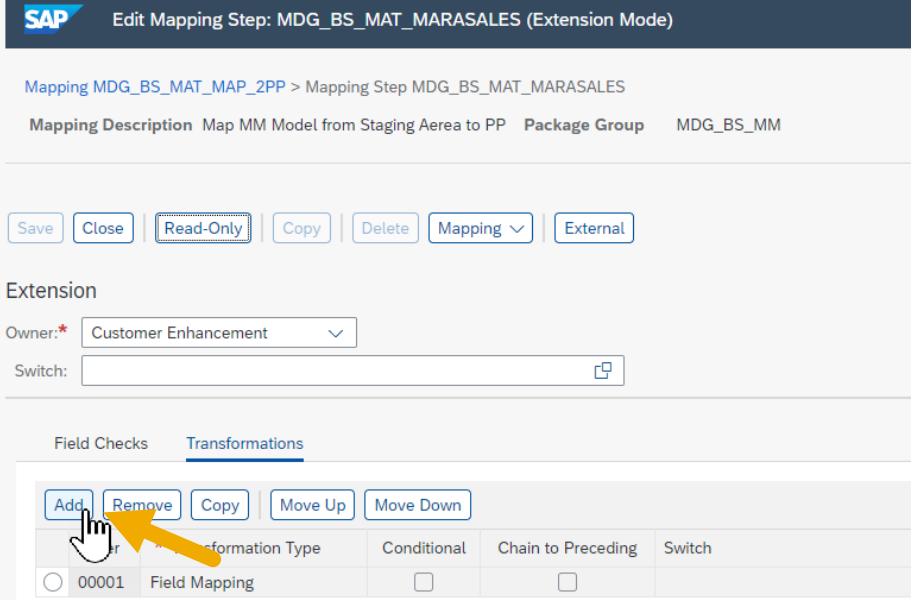
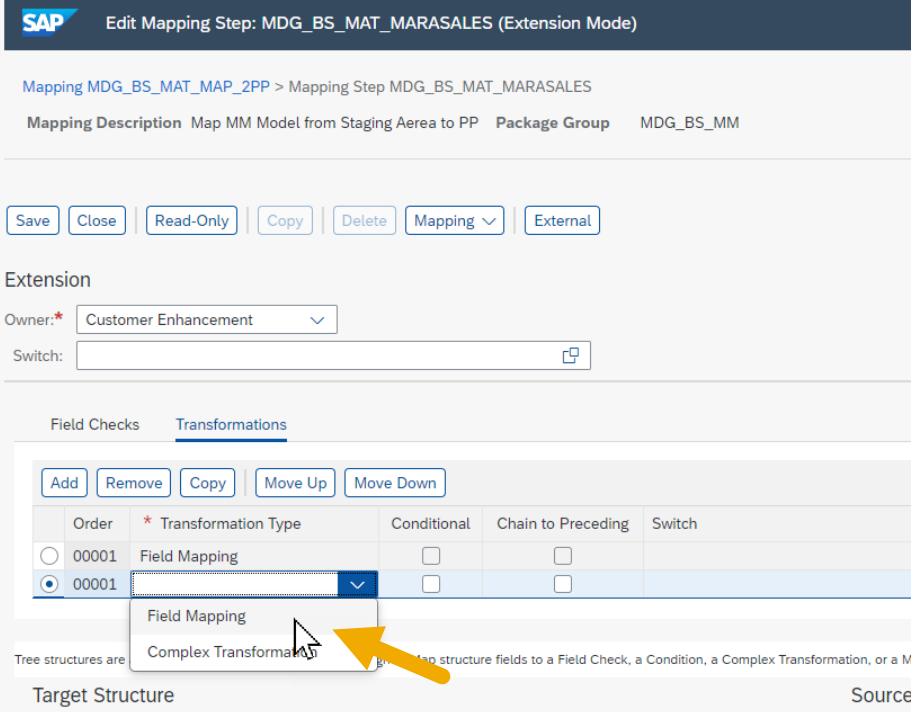
Step	Explanation	Screenshot
1	<p>Start transaction MDGIMG.</p> <p>Navigate to General Settings > Data Modeling > Extend Mappings > Extend Mappings.</p>	 <p>The screenshot shows the SAP Fiori launchpad navigation tree. The path taken is:</p> <ul style="list-style-type: none"> Structure Master Data Governance, Central Governance General Settings General Settings for Business Partner Technical Settings for Master Data Data Modeling Edit Data Model Define Business Object Type Codes Define Entity Type to Be Used by Business Object Type Define Prefixes for Internal Key Assignment Define Authorization Relevance per Entity Type Generate Data Model-Specific Structures Create and Edit Mappings Extend Mappings Define Package Groups Extend Mappings (highlighted with a yellow arrow) UI Modeling Data Quality and Search

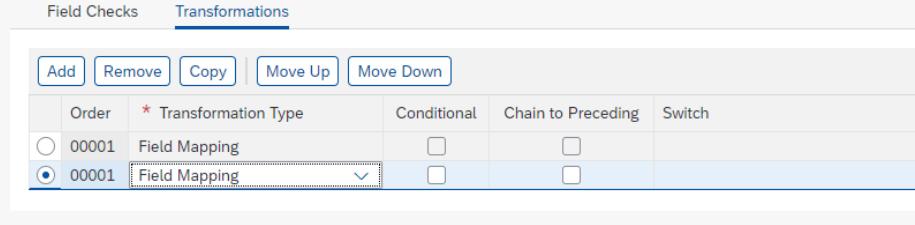
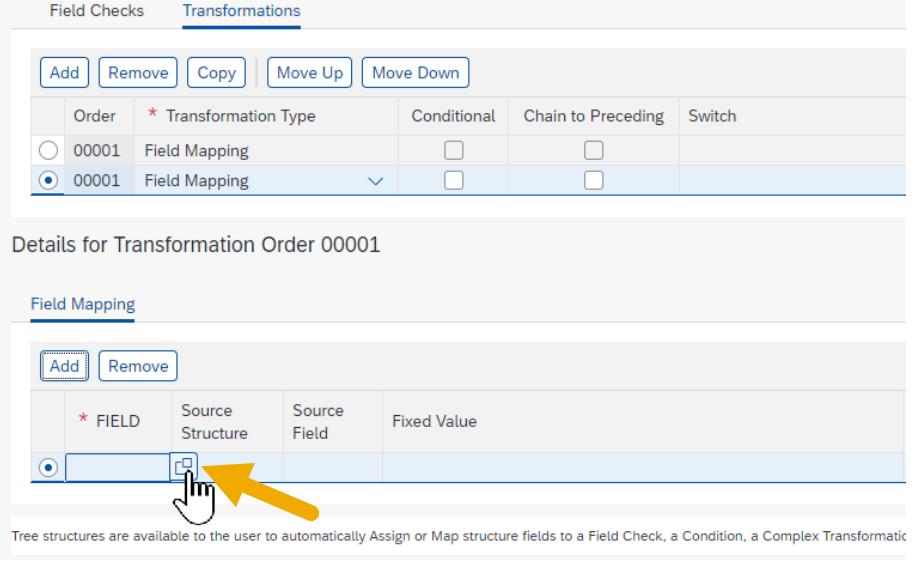
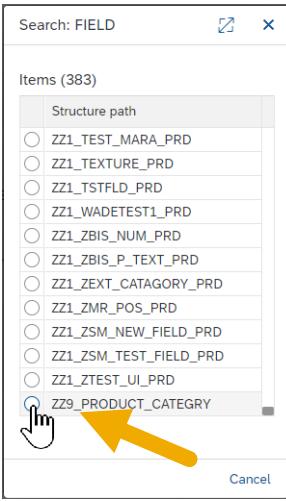
Step	Explanation	Screenshot
2	Press <i>Mapping > Open</i> .	 <p>The screenshot shows the SAP Display Mapping interface for 'MDG_BS_BP_MAP_2STA' in Extension Mode. At the top, there are buttons for Save, Close, Edit, Copy, Delete, and a 'Mapping' dropdown menu. A yellow arrow points to the 'Open...' option in the dropdown menu. Below the buttons, there is a field labeled 'Name:' with the value 'MDG_BS_BP_MAP_2STA'. The main area is titled 'Mapping'.</p>

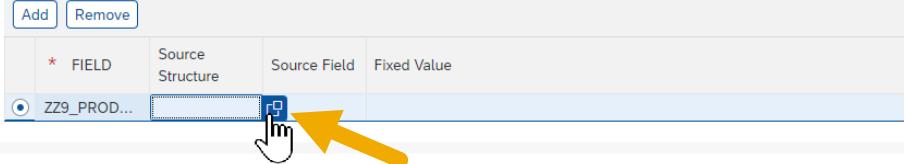
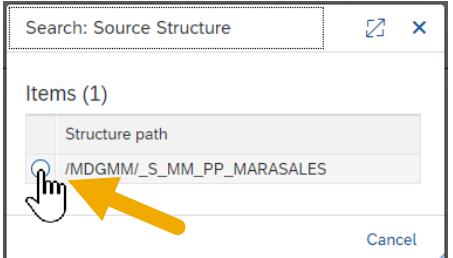
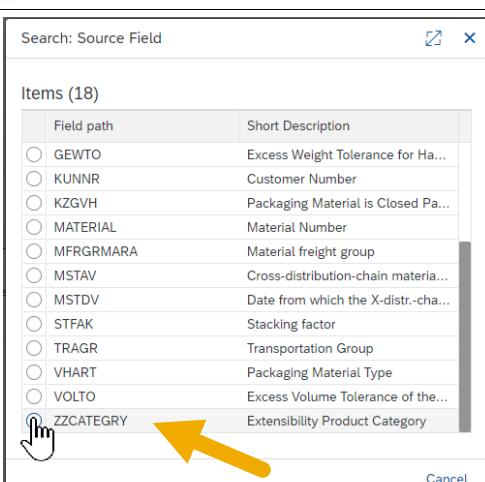
Step	Explanation	Screenshot										
3	In pop-up <i>Select Mapping</i> enter *MAT_MAP* and open the value help.											
4	<p>There are four mappings matching the search term. In the course of this document the mappings to map material data from staging area to active area (MDG_BS_MAT_MAP_2PP) as well as to map material data from active area to staging area (MDG_BS_MAT_MAP_2STA) need to be adjusted.</p>	 <table border="1" data-bbox="651 1291 1468 1471"> <thead> <tr> <th data-bbox="651 1291 873 1313">Mapping</th> <th data-bbox="873 1291 1468 1313">Text</th> </tr> </thead> <tbody> <tr> <td data-bbox="651 1313 873 1336">MDG_BS_MAT_MAP_2FC</td> <td data-bbox="873 1313 1468 1336">Map MM Model from PP to FC</td> </tr> <tr> <td data-bbox="651 1336 873 1358">MDG_BS_MAT_MAP_2PP</td> <td data-bbox="873 1336 1468 1358">Map MM Model from Staging Aerea to PP</td> </tr> <tr> <td data-bbox="651 1358 873 1381">MDG_BS_MAT_MAP_2STA</td> <td data-bbox="873 1358 1468 1381">Map MM Model from PP to Staging Aerea</td> </tr> <tr> <td data-bbox="651 1381 873 1403">MDG_BS_MAT_MAP_ES_PP_2STA</td> <td data-bbox="873 1381 1468 1403">Map ES PP Model of response attributes 2ES STA Model respons</td> </tr> </tbody> </table>	Mapping	Text	MDG_BS_MAT_MAP_2FC	Map MM Model from PP to FC	MDG_BS_MAT_MAP_2PP	Map MM Model from Staging Aerea to PP	MDG_BS_MAT_MAP_2STA	Map MM Model from PP to Staging Aerea	MDG_BS_MAT_MAP_ES_PP_2STA	Map ES PP Model of response attributes 2ES STA Model respons
Mapping	Text											
MDG_BS_MAT_MAP_2FC	Map MM Model from PP to FC											
MDG_BS_MAT_MAP_2PP	Map MM Model from Staging Aerea to PP											
MDG_BS_MAT_MAP_2STA	Map MM Model from PP to Staging Aerea											
MDG_BS_MAT_MAP_ES_PP_2STA	Map ES PP Model of response attributes 2ES STA Model respons											

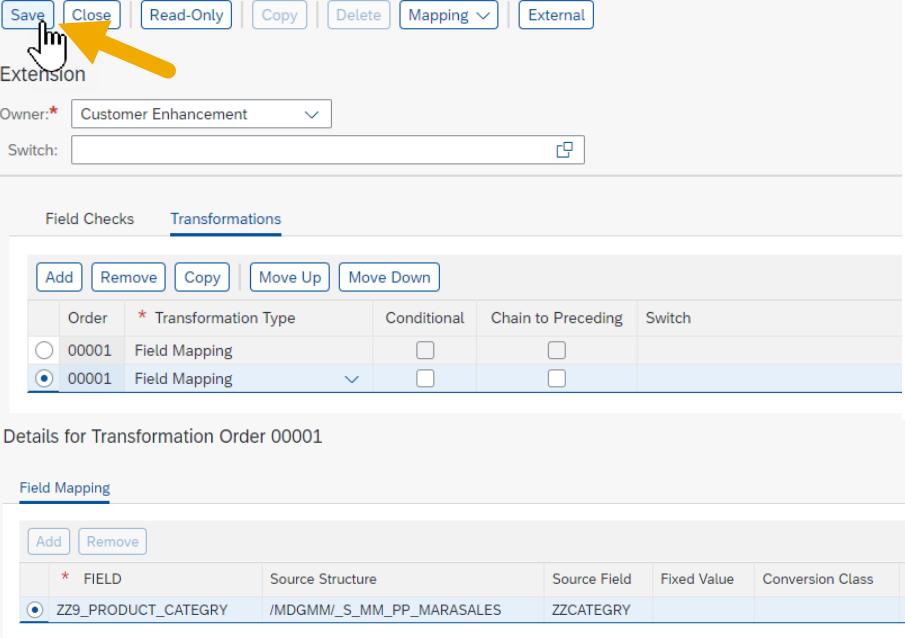
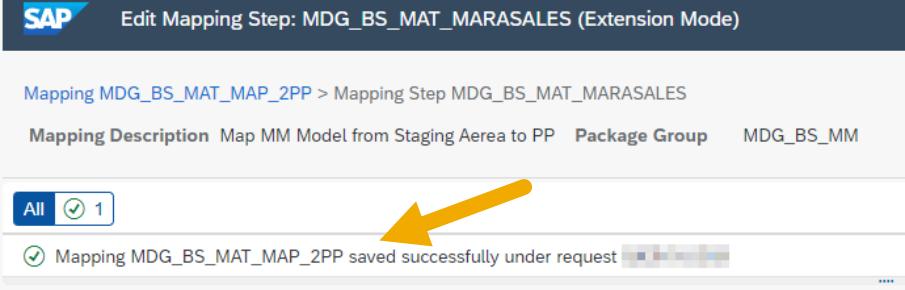
Step	Explanation	Screenshot																																													
5	Select MDG_BS_MAT_MAP_2PP.	 <p>The screenshot shows a search interface with a text input field containing '*MAT_MAP*'. Below it is a table titled 'Items (4)' with columns 'Mapping' and 'Text'. The fourth item, 'MDG_BS_MAT_MAP_2PP', is highlighted with a yellow arrow pointing to its row. It is described as 'Map MM Model from Staging Aerea to PP'.</p>																																													
6	Press OK.	 <p>The screenshot shows a dialog box titled 'Select Mapping' with a single entry 'Name: * MDG_BS_MAT_MAP_2PP'. At the bottom right, there are 'OK' and 'Cancel' buttons, with a yellow arrow pointing to the 'OK' button.</p>																																													
7	In section <i>Mapping Steps</i> select mapping step MDG_BS_MAT_MARASALES and press <i>Details</i> .	 <p>The screenshot shows the 'Display Mapping' screen for 'MDG_BS_MAT_MAP_2PP' in Extension Mode. In the 'Mapping Steps' table, the row 'MDG_BS_MAT_MARASALES' is highlighted with a yellow arrow pointing to it. The table has columns for Mapping Step, Description, Source Structure, Target Structure, and Change Structure.</p> <table border="1"> <thead> <tr> <th>Mapping Step</th> <th>Description</th> <th>Source Structure</th> <th>Target Structure</th> <th>Change Structure</th> </tr> </thead> <tbody> <tr> <td>MDG_BS_MAT_BSCDATTXT</td> <td>Basic Data Text</td> <td>/MDGMM/_S_MM_PP_BSCDATTXT</td> <td>MDG_BS_MAT_S_NOTES</td> <td>MDG_BS_MAT_S_NOTES</td> </tr> <tr> <td>MDG_BS_MAT_DESCRIPTION</td> <td>Material Description</td> <td>/MDGMM/_ST_MM_PP_MATERIAL</td> <td>MDG_BS_MAT_S_MAKT</td> <td>MDG_BS_MAT_S_MAKT</td> </tr> <tr> <td>MDG_BS_MAT_INTCMNT</td> <td>Internal Comment</td> <td>/MDGMM/_S_MM_PP_INTCMNT</td> <td>MDG_BS_MAT_S_NOTES</td> <td>MDG_BS_MAT_S_NOTES</td> </tr> <tr> <td>MDG_BS_MAT_MARAPURCH</td> <td>Material Purchasing Data</td> <td>/MDGMM/_S_MM_PP_MARAPURCH</td> <td>MDG_BS_MAT_S_MARA</td> <td>MDG_BS_MAT_S_MARA</td> </tr> <tr> <td>MDG_BS_MAT_MARAQMNG</td> <td>Material Quality Data</td> <td>/MDGMM/_S_MM_PP_MARAQMNG</td> <td>MDG_BS_MAT_S_MARA</td> <td>MDG_BS_MAT_S_MARA</td> </tr> <tr> <td>MDG_BS_MAT_MARASALES</td> <td>Material Sales Data</td> <td>/MDGMM/_S_MM_PP_MARASALES</td> <td>MDG_BS_MAT_S_MARA</td> <td>MDG_BS_MAT_S_MARA</td> </tr> <tr> <td>MDG_BS_MAT_MARASPM</td> <td>Material Spare Parts</td> <td>/MDGMM/_S_MM_PP_MARASPM</td> <td>MDG_BS_MAT_S_MARA</td> <td>MDG_BS_MAT_S_MARA</td> </tr> <tr> <td>MDG_BS_MAT_MARASTOR</td> <td>Material Storage Data</td> <td>/MDGMM/_S_MM_PP_MARASTOR</td> <td>MDG_BS_MAT_S_MARA</td> <td>MDG_BS_MAT_S_MARA</td> </tr> </tbody> </table>	Mapping Step	Description	Source Structure	Target Structure	Change Structure	MDG_BS_MAT_BSCDATTXT	Basic Data Text	/MDGMM/_S_MM_PP_BSCDATTXT	MDG_BS_MAT_S_NOTES	MDG_BS_MAT_S_NOTES	MDG_BS_MAT_DESCRIPTION	Material Description	/MDGMM/_ST_MM_PP_MATERIAL	MDG_BS_MAT_S_MAKT	MDG_BS_MAT_S_MAKT	MDG_BS_MAT_INTCMNT	Internal Comment	/MDGMM/_S_MM_PP_INTCMNT	MDG_BS_MAT_S_NOTES	MDG_BS_MAT_S_NOTES	MDG_BS_MAT_MARAPURCH	Material Purchasing Data	/MDGMM/_S_MM_PP_MARAPURCH	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA	MDG_BS_MAT_MARAQMNG	Material Quality Data	/MDGMM/_S_MM_PP_MARAQMNG	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA	MDG_BS_MAT_MARASALES	Material Sales Data	/MDGMM/_S_MM_PP_MARASALES	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA	MDG_BS_MAT_MARASPM	Material Spare Parts	/MDGMM/_S_MM_PP_MARASPM	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA	MDG_BS_MAT_MARASTOR	Material Storage Data	/MDGMM/_S_MM_PP_MARASTOR	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA
Mapping Step	Description	Source Structure	Target Structure	Change Structure																																											
MDG_BS_MAT_BSCDATTXT	Basic Data Text	/MDGMM/_S_MM_PP_BSCDATTXT	MDG_BS_MAT_S_NOTES	MDG_BS_MAT_S_NOTES																																											
MDG_BS_MAT_DESCRIPTION	Material Description	/MDGMM/_ST_MM_PP_MATERIAL	MDG_BS_MAT_S_MAKT	MDG_BS_MAT_S_MAKT																																											
MDG_BS_MAT_INTCMNT	Internal Comment	/MDGMM/_S_MM_PP_INTCMNT	MDG_BS_MAT_S_NOTES	MDG_BS_MAT_S_NOTES																																											
MDG_BS_MAT_MARAPURCH	Material Purchasing Data	/MDGMM/_S_MM_PP_MARAPURCH	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA																																											
MDG_BS_MAT_MARAQMNG	Material Quality Data	/MDGMM/_S_MM_PP_MARAQMNG	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA																																											
MDG_BS_MAT_MARASALES	Material Sales Data	/MDGMM/_S_MM_PP_MARASALES	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA																																											
MDG_BS_MAT_MARASPM	Material Spare Parts	/MDGMM/_S_MM_PP_MARASPM	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA																																											
MDG_BS_MAT_MARASTOR	Material Storage Data	/MDGMM/_S_MM_PP_MARASTOR	MDG_BS_MAT_S_MARA	MDG_BS_MAT_S_MARA																																											

Step	Explanation	Screenshot
8	Navigate to <i>Transformations</i> .	 <p>The screenshot shows the SAP interface for mapping. At the top, it says "Display Mapping Step: MDG_BS_MAT_MARASALES (Extension Mode)". Below that, it shows "Mapping MDG_BS_MAT_MAP_2PP > Mapping Step MDG_BS_MAT_MARASALES". Under "Mapping Description", it says "Map MM Model from Staging Aerea to PP" and "Package Group: MDG_BS_MM". At the bottom of the screen, there are several buttons: Save, Close, Edit, Copy, Delete, Mapping, and External. A yellow arrow points to the "Edit" button.</p>
9	Press <i>Edit</i> .	 <p>This screenshot is similar to the previous one, showing the SAP mapping interface. The "Edit" button is highlighted with a yellow arrow. The "Transformations" tab is selected. At the bottom, there are buttons for Add, Remove, Copy, Move Up, Move Down, Order, Transformation Type, Conditional, and so on.</p>

Step	Explanation	Screenshot										
10	Press <i>Add</i> .	 <p>SAP Edit Mapping Step: MDG_BS_MAT_MARASALES (Extension Mode)</p> <p>Mapping MDG_BS_MAT_MAP_2PP > Mapping Step MDG_BS_MAT_MARASALES</p> <p>Mapping Description Map MM Model from Staging Aerea to PP Package Group MDG_BS_MM</p> <p>Save Close Read-Only Copy Delete Mapping External</p> <p>Extension</p> <p>Owner: Customer Enhancement</p> <p>Switch:</p> <p>Field Checks Transformations</p> <p>Add Remove Copy Move Up Move Down</p> <table border="1"> <thead> <tr> <th>Order</th> <th>* Transformation Type</th> <th>Conditional</th> <th>Chain to Preceding</th> <th>Switch</th> </tr> </thead> <tbody> <tr> <td>00001</td> <td>Field Mapping</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> </tbody> </table>	Order	* Transformation Type	Conditional	Chain to Preceding	Switch	00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>	
Order	* Transformation Type	Conditional	Chain to Preceding	Switch								
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>									
11	A new entry is added and selected. In column <i>Field Mapping</i> select option <i>Field Mapping</i> .	 <p>SAP Edit Mapping Step: MDG_BS_MAT_MARASALES (Extension Mode)</p> <p>Mapping MDG_BS_MAT_MAP_2PP > Mapping Step MDG_BS_MAT_MARASALES</p> <p>Mapping Description Map MM Model from Staging Aerea to PP Package Group MDG_BS_MM</p> <p>Save Close Read-Only Copy Delete Mapping External</p> <p>Extension</p> <p>Owner: Customer Enhancement</p> <p>Switch:</p> <p>Field Checks Transformations</p> <p>Add Remove Copy Move Up Move Down</p> <table border="1"> <thead> <tr> <th>Order</th> <th>* Transformation Type</th> <th>Conditional</th> <th>Chain to Preceding</th> <th>Switch</th> </tr> </thead> <tbody> <tr> <td>00001</td> <td>Field Mapping</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> </tbody> </table> <p>Tree structures are available for mapping structure fields to a Field Check, a Condition, a Complex Transformation, or a M...</p> <p>Target Structure Source</p>	Order	* Transformation Type	Conditional	Chain to Preceding	Switch	00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>	
Order	* Transformation Type	Conditional	Chain to Preceding	Switch								
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>									

Step	Explanation	Screenshot																		
12	In the details for transformation order 00001 in section <i>Field Mapping</i> press <i>Add</i> .	 <p>Details for Transformation Order 00001</p> <p>Field Mapping</p> <table border="1"> <thead> <tr> <th>Add</th> <th>Remove</th> <th>FIELD</th> <th>Source Structure</th> <th>Source Field</th> <th>Fixed Value</th> <th>Conversion Class</th> <th>Reference Type</th> <th>Field type</th> </tr> </thead> <tbody> <tr> <td colspan="9">(i) The table does not contain any data</td> </tr> </tbody> </table>	Add	Remove	FIELD	Source Structure	Source Field	Fixed Value	Conversion Class	Reference Type	Field type	(i) The table does not contain any data								
Add	Remove	FIELD	Source Structure	Source Field	Fixed Value	Conversion Class	Reference Type	Field type												
(i) The table does not contain any data																				
13	A new entry is added and selected. Open the value help for FIELD.	 <p>Details for Transformation Order 00001</p> <p>Field Mapping</p> <table border="1"> <thead> <tr> <th>Add</th> <th>Remove</th> <th>* FIELD</th> <th>Source Structure</th> <th>Source Field</th> <th>Fixed Value</th> </tr> </thead> <tbody> <tr> <td colspan="6">(i) Tree structures are available to the user to automatically Assign or Map structure fields to a Field Check, a Condition, a Complex Transformation, or a Reference Type.</td> </tr> </tbody> </table>	Add	Remove	* FIELD	Source Structure	Source Field	Fixed Value	(i) Tree structures are available to the user to automatically Assign or Map structure fields to a Field Check, a Condition, a Complex Transformation, or a Reference Type.											
Add	Remove	* FIELD	Source Structure	Source Field	Fixed Value															
(i) Tree structures are available to the user to automatically Assign or Map structure fields to a Field Check, a Condition, a Complex Transformation, or a Reference Type.																				
14	Scroll down to ZZ9_PRODUCT_CATEGORY and select it.	 <p>Search: FIELD</p> <p>Items (383)</p> <table border="1"> <thead> <tr> <th>Structure path</th> </tr> </thead> <tbody> <tr> <td>ZZ1_TEST_MARA_PRD</td> </tr> <tr> <td>ZZ1_TEXTURE_PRD</td> </tr> <tr> <td>ZZ1_TSTFLD_PRD</td> </tr> <tr> <td>ZZ1_WADETEST1_PRD</td> </tr> <tr> <td>ZZ1_ZBIS_NUM_PRD</td> </tr> <tr> <td>ZZ1_ZBIS_P_TEXT_PRD</td> </tr> <tr> <td>ZZ1_ZEXT_CATALOGY_PRD</td> </tr> <tr> <td>ZZ1_ZMR_POS_PRD</td> </tr> <tr> <td>ZZ1_ZSM_NEW_FIELD_PRD</td> </tr> <tr> <td>ZZ1_ZSM_TEST_FIELD_PRD</td> </tr> <tr> <td>ZZ1_ZTEST_UI_PRD</td> </tr> <tr> <td>ZZ9_PRODUCT_CATEGORY</td> </tr> </tbody> </table>	Structure path	ZZ1_TEST_MARA_PRD	ZZ1_TEXTURE_PRD	ZZ1_TSTFLD_PRD	ZZ1_WADETEST1_PRD	ZZ1_ZBIS_NUM_PRD	ZZ1_ZBIS_P_TEXT_PRD	ZZ1_ZEXT_CATALOGY_PRD	ZZ1_ZMR_POS_PRD	ZZ1_ZSM_NEW_FIELD_PRD	ZZ1_ZSM_TEST_FIELD_PRD	ZZ1_ZTEST_UI_PRD	ZZ9_PRODUCT_CATEGORY					
Structure path																				
ZZ1_TEST_MARA_PRD																				
ZZ1_TEXTURE_PRD																				
ZZ1_TSTFLD_PRD																				
ZZ1_WADETEST1_PRD																				
ZZ1_ZBIS_NUM_PRD																				
ZZ1_ZBIS_P_TEXT_PRD																				
ZZ1_ZEXT_CATALOGY_PRD																				
ZZ1_ZMR_POS_PRD																				
ZZ1_ZSM_NEW_FIELD_PRD																				
ZZ1_ZSM_TEST_FIELD_PRD																				
ZZ1_ZTEST_UI_PRD																				
ZZ9_PRODUCT_CATEGORY																				

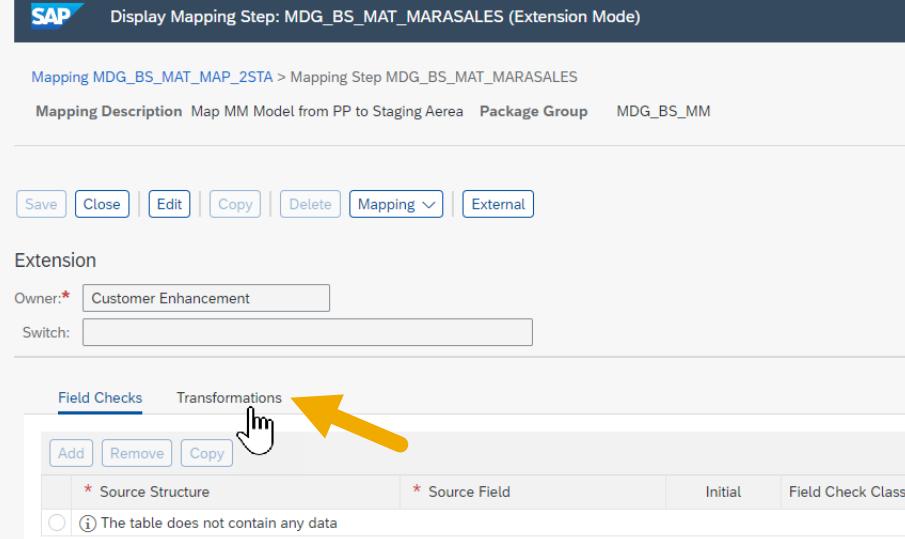
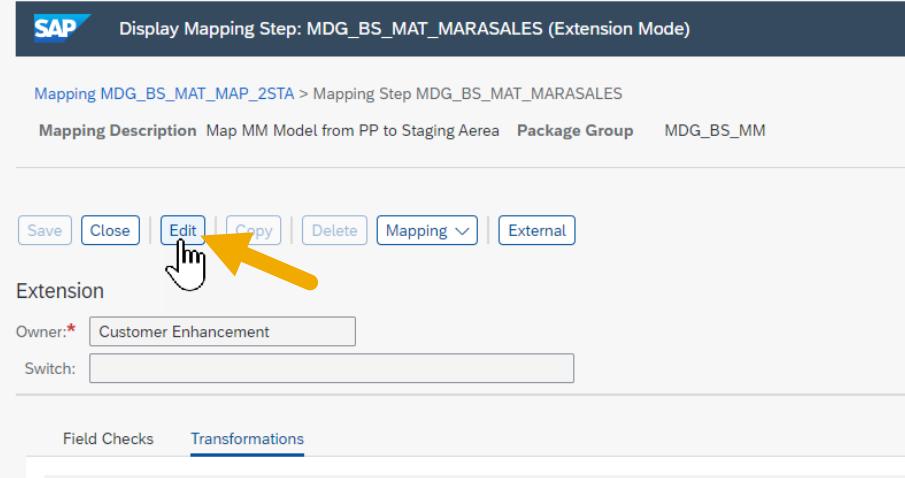
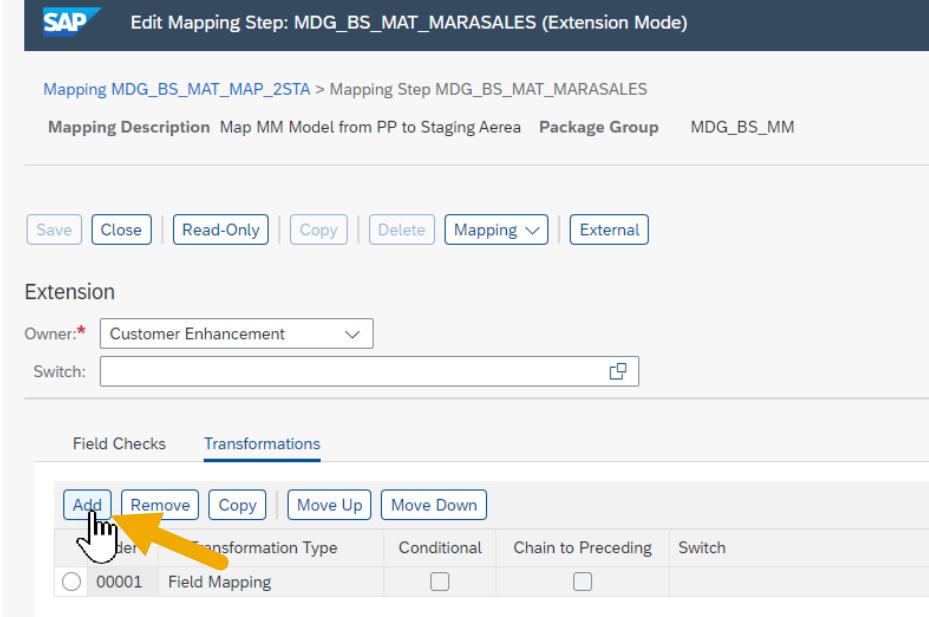
Step	Explanation	Screenshot																										
15	Open the value help for <i>Source Structure</i> .	<p>Details for Transformation Order 00001</p> <p>Field Mapping</p>  <p>Tree structures are available to the user to automatically Assign or Map structure fields to a Field Check, a Condition, a Complex Transformation, or a Mapping u</p>																										
16	Select /MDGMM/_S_MM_PP_MARASALES.	 <p>Search: Source Structure</p> <p>Items (1)</p> <table border="1"> <thead> <tr> <th>Structure path</th> </tr> </thead> <tbody> <tr> <td>/MDGMM/_S_MM_PP_MARASALES</td> </tr> </tbody> </table> <p>Cancel</p>	Structure path	/MDGMM/_S_MM_PP_MARASALES																								
Structure path																												
/MDGMM/_S_MM_PP_MARASALES																												
17	Open the value help for <i>Source Field</i> .	<p>Details for Transformation Order 00001</p> <p>Field Mapping</p>  <p>Tree structures are available to the user to automatically Assign or Map structure fields to a Field Check, a Condition, a Complex Transformation, or a Mapping u</p>																										
18	Select ZZCATEGRY.	 <p>Search: Source Field</p> <p>Items (18)</p> <table border="1"> <thead> <tr> <th>Field path</th> <th>Short Description</th> </tr> </thead> <tbody> <tr> <td>GEWTO</td> <td>Excess Weight Tolerance for Ha...</td> </tr> <tr> <td>KUNNR</td> <td>Customer Number</td> </tr> <tr> <td>KZGVH</td> <td>Packaging Material is Closed Pa...</td> </tr> <tr> <td>MATERIAL</td> <td>Material Number</td> </tr> <tr> <td>MFRGRMARA</td> <td>Material freight group</td> </tr> <tr> <td>MSTAV</td> <td>Cross-distribution-chain materia...</td> </tr> <tr> <td>MSTDV</td> <td>Date from which the X-distr.-cha...</td> </tr> <tr> <td>STFAK</td> <td>Stacking factor</td> </tr> <tr> <td>TRAGR</td> <td>Transportation Group</td> </tr> <tr> <td>VHART</td> <td>Packaging Material Type</td> </tr> <tr> <td>VOLTO</td> <td>Excess Volume Tolerance of the...</td> </tr> <tr> <td>ZZCATEGRY</td> <td>Extensibility Product Category</td> </tr> </tbody> </table> <p>Cancel</p>	Field path	Short Description	GEWTO	Excess Weight Tolerance for Ha...	KUNNR	Customer Number	KZGVH	Packaging Material is Closed Pa...	MATERIAL	Material Number	MFRGRMARA	Material freight group	MSTAV	Cross-distribution-chain materia...	MSTDV	Date from which the X-distr.-cha...	STFAK	Stacking factor	TRAGR	Transportation Group	VHART	Packaging Material Type	VOLTO	Excess Volume Tolerance of the...	ZZCATEGRY	Extensibility Product Category
Field path	Short Description																											
GEWTO	Excess Weight Tolerance for Ha...																											
KUNNR	Customer Number																											
KZGVH	Packaging Material is Closed Pa...																											
MATERIAL	Material Number																											
MFRGRMARA	Material freight group																											
MSTAV	Cross-distribution-chain materia...																											
MSTDV	Date from which the X-distr.-cha...																											
STFAK	Stacking factor																											
TRAGR	Transportation Group																											
VHART	Packaging Material Type																											
VOLTO	Excess Volume Tolerance of the...																											
ZZCATEGRY	Extensibility Product Category																											

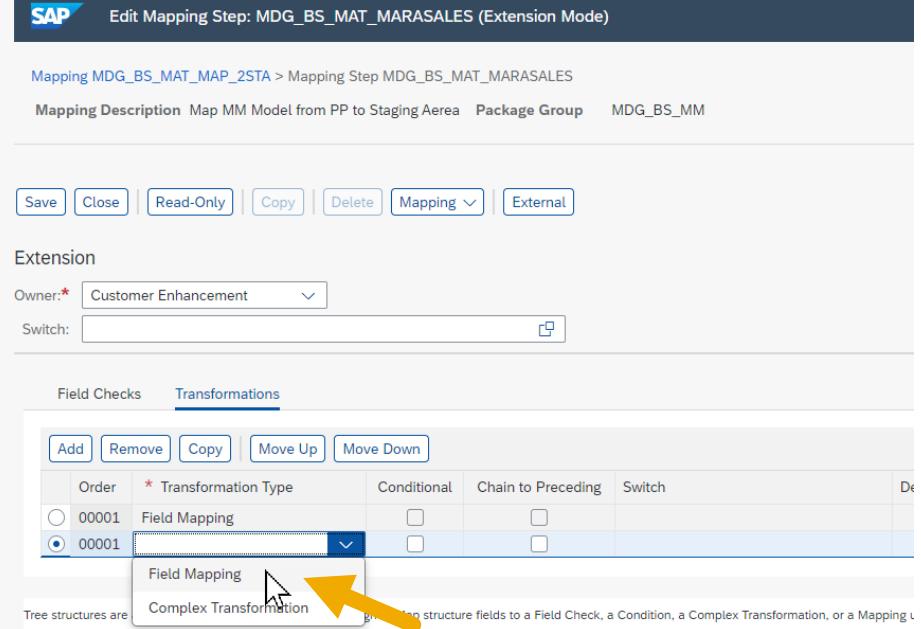
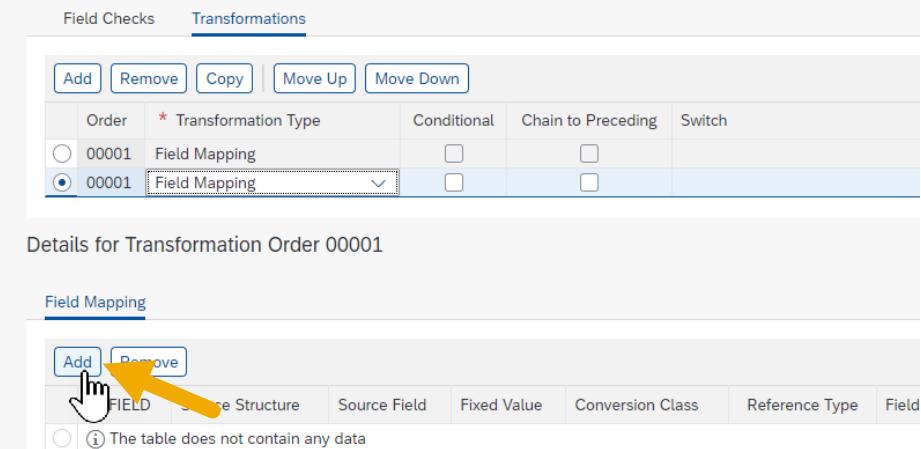
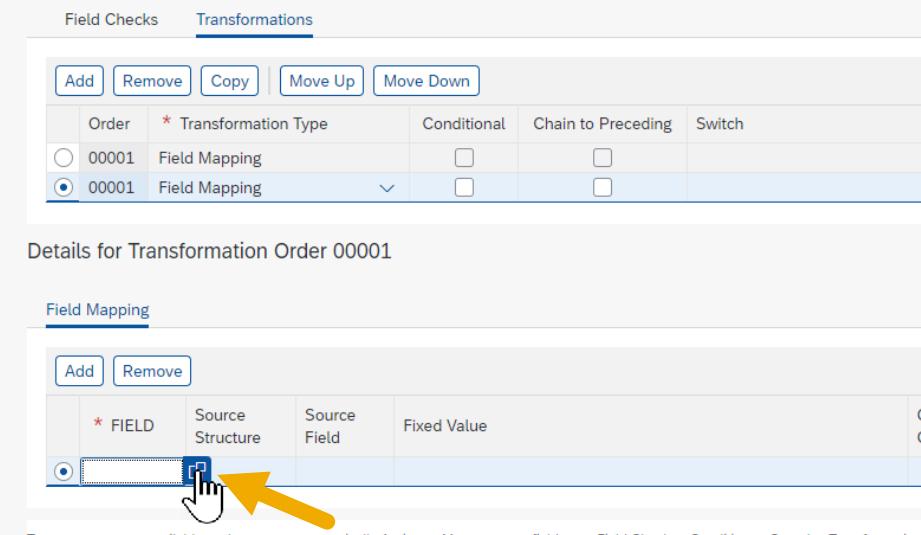
Step	Explanation	Screenshot
19	Press Save.	 <p>The screenshot shows the SAP Fiori interface for transformation configuration. At the top, there's a toolbar with buttons for Save, Close, Read-Only, Copy, Delete, Mapping, and External. A yellow arrow points to the 'Save' button. Below the toolbar, there's a section for 'Extension' settings like Owner and Switch. The main area is divided into 'Field Checks' and 'Transformations'. Under Transformations, there's a table with columns for Order, Transformation Type (Field Mapping), Conditional, Chain to Preceding, and Switch. Two rows are listed: one for 'Field Mapping' with Order 00001 and another selected row also with Order 00001. At the bottom, there's a detailed view for Transformation Order 00001, specifically for 'Field Mapping' with a table showing Source Structure and other details. The entire screenshot is framed by a light gray border.</p>
20	The mapping should be saved.	 <p>The screenshot shows a SAP Fiori success message for saving a mapping step. It says 'Edit Mapping Step: MDG_BS_MAT_MARASALES (Extension Mode)'. Below it, it shows the mapping description 'Map MM Model from Staging Aerea to PP' and package group 'MDG_BS_MM'. At the bottom, there's a status bar with 'All 1' and a green checkmark icon. A yellow arrow points to the text 'Mapping MDG_BS_MAT_MAP_2PP saved successfully under request [redacted]'. The entire screenshot is framed by a light gray border.</p>

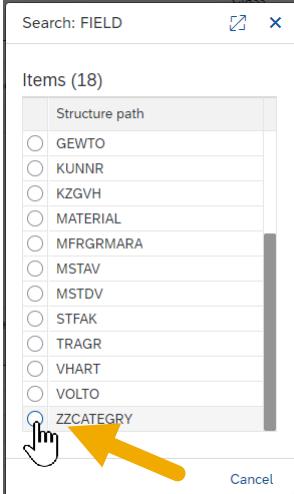
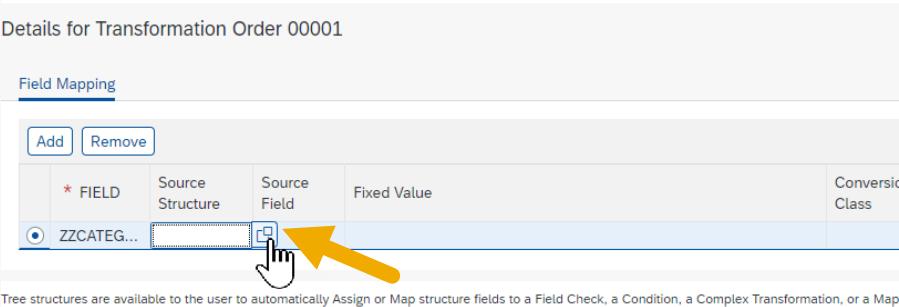
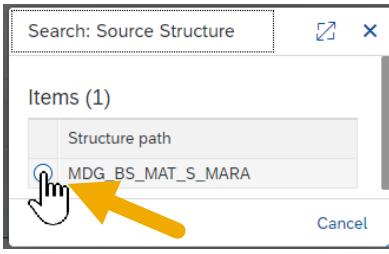
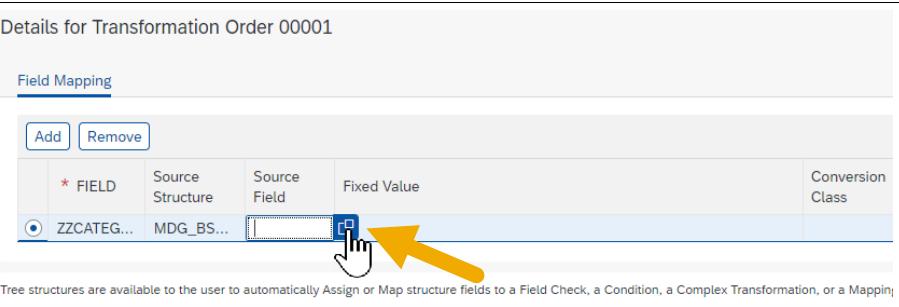
3.6.2. Add field mapping at mapping for material data from active area to staging area (MDG_BS_MAT_MAP_2STA)

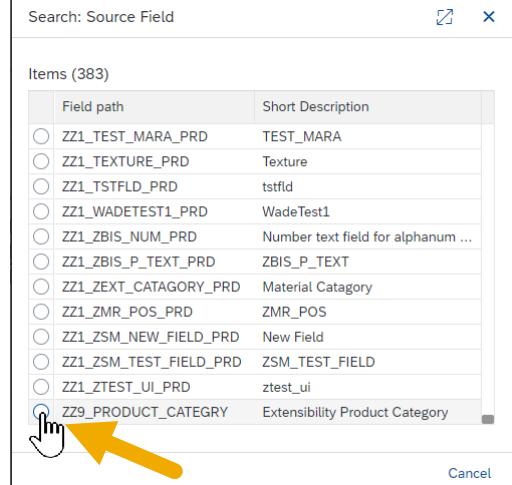
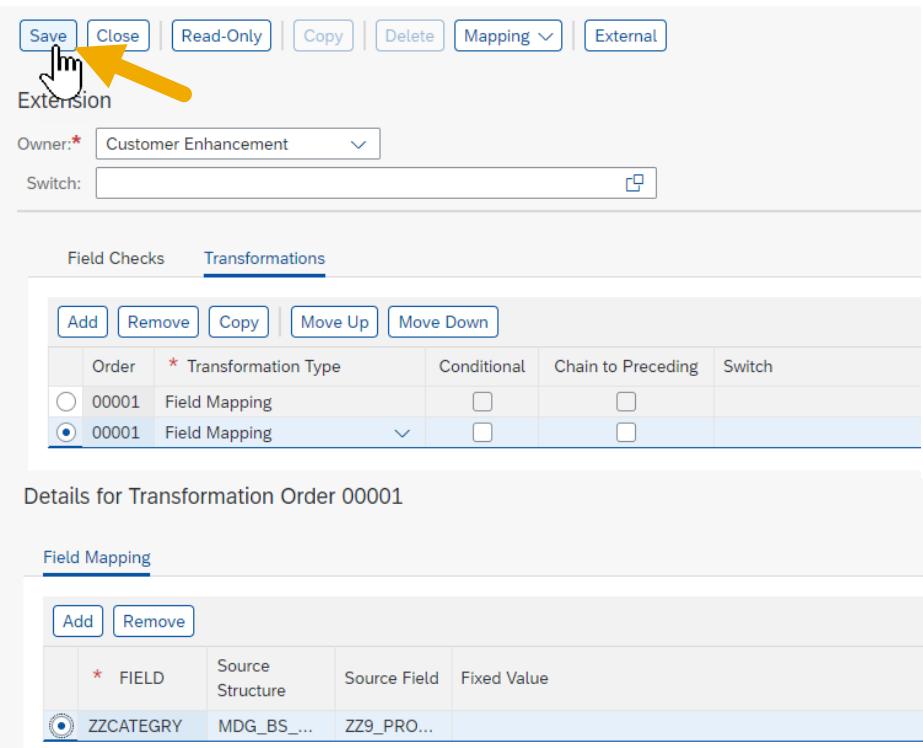
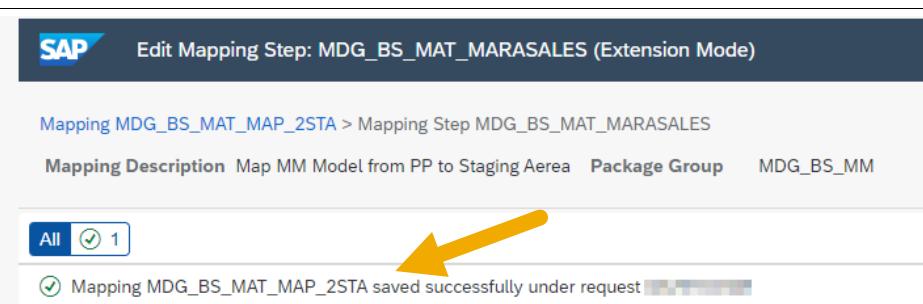
Step	Explanation	Screenshot
1	If not already done, start transaction MDGIMG. Navigate to General Settings > Data Modeling > Extend Mappings > Extend Mappings .	
2	Press Mapping > Open.	
3	In pop-up <i>Select Mapping</i> enter *MAT_MAP* and open the value help.	
4	There are four mappings matching the search term. In the course of this document the mappings to map material data from staging area to active area (MDG_BS_MAT_MAP_2PP) as well as to map material data from active area to staging area (MDG_BS_MAT_MAP_2STA) need to be adjusted.	

Step	Explanation	Screenshot																																																																		
5	Select MDG_BS_MAT_MAP_2STA.	<p>The screenshot shows a search interface with a text input field containing '*MAT_MAP*'. A list of four items is displayed below:</p> <ul style="list-style-type: none"> MDG_BS_MAT_MAP_2FC: Map MM Model from PP to FC MDG_BS_MAT_MAP_2PP: Map MM Model from Staging Aerea to PP MDG_BS_MAT_MAP_2STA: Map MM Model from PP to Staging Aerea (selected) MDG_BS_MAT_MAP_ES_PP_2STA: Map ES PP Model of response attributes 2ES STA Model respons 																																																																		
6	Press OK.	<p>The screenshot shows a confirmation dialog with the selected mapping step 'MDG_BS_MAT_MAP_2STA' in the Name field. The 'OK' button is highlighted with a yellow arrow.</p>																																																																		
7	In section Mapping Steps select mapping step MDG_BS_MAT_MARASALES and press Details.	<p>The screenshot shows the 'Display Mapping' screen for 'MDG_BS_MAT_MAP_2STA' in Extension Mode. The 'Mapping Steps' table lists various mapping steps, with 'MDG_BS_MAT_MARASALES' selected and highlighted with a yellow arrow. The 'Details' button for this row is also highlighted with a yellow arrow.</p> <table border="1"> <thead> <tr> <th>Mapping Step</th> <th>Description</th> <th>Source Structure</th> <th>Target Structure</th> <th>Change Structure</th> <th>Change Structure K Exist</th> </tr> </thead> <tbody> <tr> <td>MDG_BS_MAT_MAP_2FC</td> <td>Material Description</td> <td>MDG_BS_MAT_S_MAKT</td> <td>/MDGMMI/_S_MM_PP_MATERIAL</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MAP_2PP</td> <td>Material Root</td> <td>MDG_BS_MAT_S_MARA</td> <td>/MDGMMI/_S_MM_PP_MATERIAL</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MAP_ARAPURCH</td> <td>Material Purchasing Data</td> <td>MDG_BS_MAT_S_MARA</td> <td>/MDGMMI/_S_MM_PP_MARAPURCH</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MAP_QTMNG</td> <td>Material Quality Data</td> <td>MDG_BS_MAT_S_MARA</td> <td>/MDGMMI/_S_MM_PP_MARQTMNG</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MARASALES</td> <td>Material Sales Data</td> <td>MDG_BS_MAT_S_MARA</td> <td>/MDGMMI/_S_MM_PP_MARASALES</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MARASPM</td> <td>Material Spare Parts</td> <td>MDG_BS_MAT_S_MARA</td> <td>/MDGMMI/_S_MM_PP_MARASPM</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MARASTOR</td> <td>Material Storage Data</td> <td>MDG_BS_MAT_S_MARA</td> <td>/MDGMMI/_S_MM_PP_MARASTOR</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MARCATP</td> <td>Plant Data ATP</td> <td>MDG_BS_MAT_S_MARC</td> <td>/MDGMMI/_S_MM_PP_MARCATP</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MARCBASIC</td> <td>Plant Data Basic Data</td> <td>MDG_BS_MAT_S_MARC</td> <td>/MDGMMI/_S_MM_PP_MARCBASIC</td> <td></td> <td></td> </tr> <tr> <td>MDG_BS_MAT_MARCCSTNG</td> <td>Plant Data Costing</td> <td>MDG_BS_MAT_S_MARC</td> <td>/MDGMMI/_S_MM_PP_MARCCSTNG</td> <td></td> <td></td> </tr> </tbody> </table>	Mapping Step	Description	Source Structure	Target Structure	Change Structure	Change Structure K Exist	MDG_BS_MAT_MAP_2FC	Material Description	MDG_BS_MAT_S_MAKT	/MDGMMI/_S_MM_PP_MATERIAL			MDG_BS_MAT_MAP_2PP	Material Root	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MATERIAL			MDG_BS_MAT_MAP_ARAPURCH	Material Purchasing Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARAPURCH			MDG_BS_MAT_MAP_QTMNG	Material Quality Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARQTMNG			MDG_BS_MAT_MARASALES	Material Sales Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARASALES			MDG_BS_MAT_MARASPM	Material Spare Parts	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARASPM			MDG_BS_MAT_MARASTOR	Material Storage Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARASTOR			MDG_BS_MAT_MARCATP	Plant Data ATP	MDG_BS_MAT_S_MARC	/MDGMMI/_S_MM_PP_MARCATP			MDG_BS_MAT_MARCBASIC	Plant Data Basic Data	MDG_BS_MAT_S_MARC	/MDGMMI/_S_MM_PP_MARCBASIC			MDG_BS_MAT_MARCCSTNG	Plant Data Costing	MDG_BS_MAT_S_MARC	/MDGMMI/_S_MM_PP_MARCCSTNG		
Mapping Step	Description	Source Structure	Target Structure	Change Structure	Change Structure K Exist																																																															
MDG_BS_MAT_MAP_2FC	Material Description	MDG_BS_MAT_S_MAKT	/MDGMMI/_S_MM_PP_MATERIAL																																																																	
MDG_BS_MAT_MAP_2PP	Material Root	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MATERIAL																																																																	
MDG_BS_MAT_MAP_ARAPURCH	Material Purchasing Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARAPURCH																																																																	
MDG_BS_MAT_MAP_QTMNG	Material Quality Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARQTMNG																																																																	
MDG_BS_MAT_MARASALES	Material Sales Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARASALES																																																																	
MDG_BS_MAT_MARASPM	Material Spare Parts	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARASPM																																																																	
MDG_BS_MAT_MARASTOR	Material Storage Data	MDG_BS_MAT_S_MARA	/MDGMMI/_S_MM_PP_MARASTOR																																																																	
MDG_BS_MAT_MARCATP	Plant Data ATP	MDG_BS_MAT_S_MARC	/MDGMMI/_S_MM_PP_MARCATP																																																																	
MDG_BS_MAT_MARCBASIC	Plant Data Basic Data	MDG_BS_MAT_S_MARC	/MDGMMI/_S_MM_PP_MARCBASIC																																																																	
MDG_BS_MAT_MARCCSTNG	Plant Data Costing	MDG_BS_MAT_S_MARC	/MDGMMI/_S_MM_PP_MARCCSTNG																																																																	

Step	Explanation	Screenshot
8	Navigate to <i>Transformations</i> .	
9	Press <i>Edit</i> .	
10	Press <i>Add</i> .	

Step	Explanation	Screenshot
11	A new entry is added and selected. In column Field Mapping select option Field Mapping .	
12	In the details for transformation order 00001 in section Field Mapping press Add .	
13	A new entry is added and selected. Open the value help for FIELD.	

Step	Explanation	Screenshot
14	Scroll down to ZZCATEGRY and select it.	
15	Open the value help for <i>Source Structure</i> .	
16	Select MDG_BS_MAT_S_MARA.	
17	Open the value help for <i>Source Field</i> .	

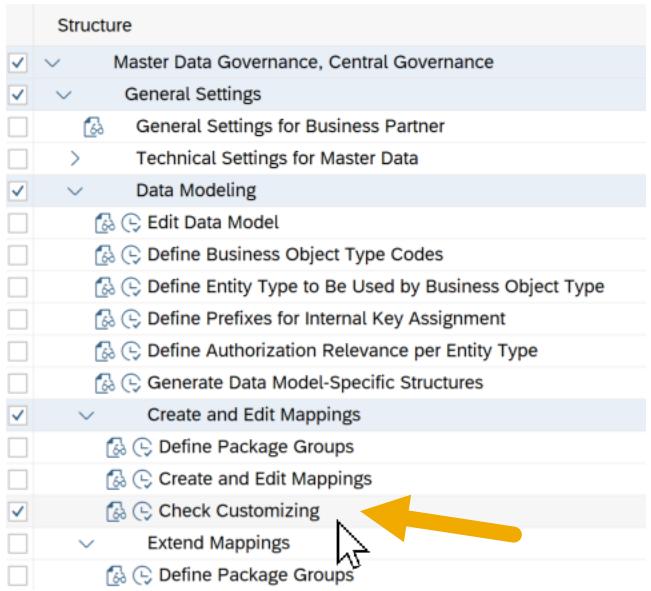
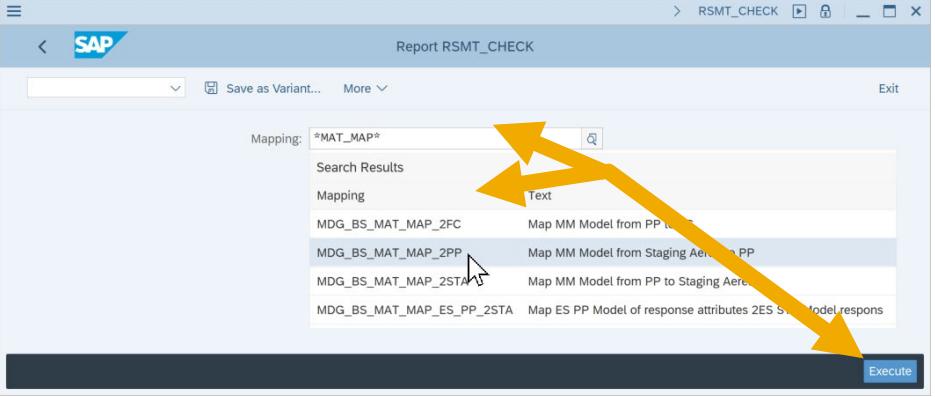
Step	Explanation	Screenshot																																					
18	Select ZZ9_PRODUCT_CATEGORY.	 <p>Search: Source Field</p> <p>Items (383)</p> <table border="1"> <thead> <tr> <th>Field path</th> <th>Short Description</th> </tr> </thead> <tbody> <tr><td>ZZ1_TEST_MARA_PRD</td><td>TEST_MARA</td></tr> <tr><td>ZZ1_TEXTURE_PRD</td><td>Texture</td></tr> <tr><td>ZZ1_TSTFLD_PRD</td><td>tstfld</td></tr> <tr><td>ZZ1_WADETEST1_PRD</td><td>WadeTest1</td></tr> <tr><td>ZZ1_ZBIS_NUM_PRD</td><td>Number text field for alphanumeric ...</td></tr> <tr><td>ZZ1_ZBIS_P_TEXT_PRD</td><td>ZBIS_P_TEXT</td></tr> <tr><td>ZZ1_ZEXT_CATALOGY_PRD</td><td>Material Catalogy</td></tr> <tr><td>ZZ1_ZMR_POS_PRD</td><td>ZMR_POS</td></tr> <tr><td>ZZ1_ZSM_NEW_FIELD_PRD</td><td>New Field</td></tr> <tr><td>ZZ1_ZSM_TEST_FIELD_PRD</td><td>ZSM_TEST_FIELD</td></tr> <tr><td>ZZ1_ZTEST_UI_PRD</td><td>ztest_ui</td></tr> <tr><td>ZZ9_PRODUCT_CATEGORY</td><td>Extensibility Product Category</td></tr> </tbody> </table>	Field path	Short Description	ZZ1_TEST_MARA_PRD	TEST_MARA	ZZ1_TEXTURE_PRD	Texture	ZZ1_TSTFLD_PRD	tstfld	ZZ1_WADETEST1_PRD	WadeTest1	ZZ1_ZBIS_NUM_PRD	Number text field for alphanumeric ...	ZZ1_ZBIS_P_TEXT_PRD	ZBIS_P_TEXT	ZZ1_ZEXT_CATALOGY_PRD	Material Catalogy	ZZ1_ZMR_POS_PRD	ZMR_POS	ZZ1_ZSM_NEW_FIELD_PRD	New Field	ZZ1_ZSM_TEST_FIELD_PRD	ZSM_TEST_FIELD	ZZ1_ZTEST_UI_PRD	ztest_ui	ZZ9_PRODUCT_CATEGORY	Extensibility Product Category											
Field path	Short Description																																						
ZZ1_TEST_MARA_PRD	TEST_MARA																																						
ZZ1_TEXTURE_PRD	Texture																																						
ZZ1_TSTFLD_PRD	tstfld																																						
ZZ1_WADETEST1_PRD	WadeTest1																																						
ZZ1_ZBIS_NUM_PRD	Number text field for alphanumeric ...																																						
ZZ1_ZBIS_P_TEXT_PRD	ZBIS_P_TEXT																																						
ZZ1_ZEXT_CATALOGY_PRD	Material Catalogy																																						
ZZ1_ZMR_POS_PRD	ZMR_POS																																						
ZZ1_ZSM_NEW_FIELD_PRD	New Field																																						
ZZ1_ZSM_TEST_FIELD_PRD	ZSM_TEST_FIELD																																						
ZZ1_ZTEST_UI_PRD	ztest_ui																																						
ZZ9_PRODUCT_CATEGORY	Extensibility Product Category																																						
19	Press Save.	 <p>Save Close Read-Only Copy Delete Mapping External</p> <p>Extension</p> <p>Owner: * Customer Enhancement</p> <p>Switch:</p> <p>Field Checks Transformations</p> <table border="1"> <thead> <tr> <th>Add</th> <th>Remove</th> <th>Copy</th> <th>Move Up</th> <th>Move Down</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Order</td> <td>* Transformation Type</td> <td>Conditional</td> <td>Chain to Preceding</td> <td>Switch</td> </tr> <tr> <td>00001</td> <td>Field Mapping</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td>00001</td> <td>Field Mapping</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> </tr> </tbody> </table> <p>Details for Transformation Order 00001</p> <p>Field Mapping</p> <table border="1"> <thead> <tr> <th>Add</th> <th>Remove</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td>* FIELD</td> <td>Source Structure</td> <td>Source Field</td> <td>Fixed Value</td> </tr> <tr> <td>ZZCATEGORY</td> <td>MDG_BS....</td> <td>ZZ9_PRO...</td> <td></td> </tr> </tbody> </table>	Add	Remove	Copy	Move Up	Move Down						Order	* Transformation Type	Conditional	Chain to Preceding	Switch	00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>		00001	Field Mapping	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Add	Remove			* FIELD	Source Structure	Source Field	Fixed Value	ZZCATEGORY	MDG_BS....	ZZ9_PRO...	
Add	Remove	Copy	Move Up	Move Down																																			
Order	* Transformation Type	Conditional	Chain to Preceding	Switch																																			
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>																																				
00001	Field Mapping	<input checked="" type="checkbox"/>	<input type="checkbox"/>																																				
Add	Remove																																						
* FIELD	Source Structure	Source Field	Fixed Value																																				
ZZCATEGORY	MDG_BS....	ZZ9_PRO...																																					
20	The mapping should be saved.	 <p>SAP Edit Mapping Step: MDG_BS_MAT_MARASALES (Extension Mode)</p> <p>Mapping MDG_BS_MAT_MAP_2STA > Mapping Step MDG_BS_MAT_MARASALES</p> <p>Mapping Description Map MM Model from PP to Staging Aerea Package Group MDG_BS_MM</p> <p>All <input checked="" type="checkbox"/> 1</p> <p>Mapping MDG_BS_MAT_MAP_2STA saved successfully under request [redacted]</p>																																					

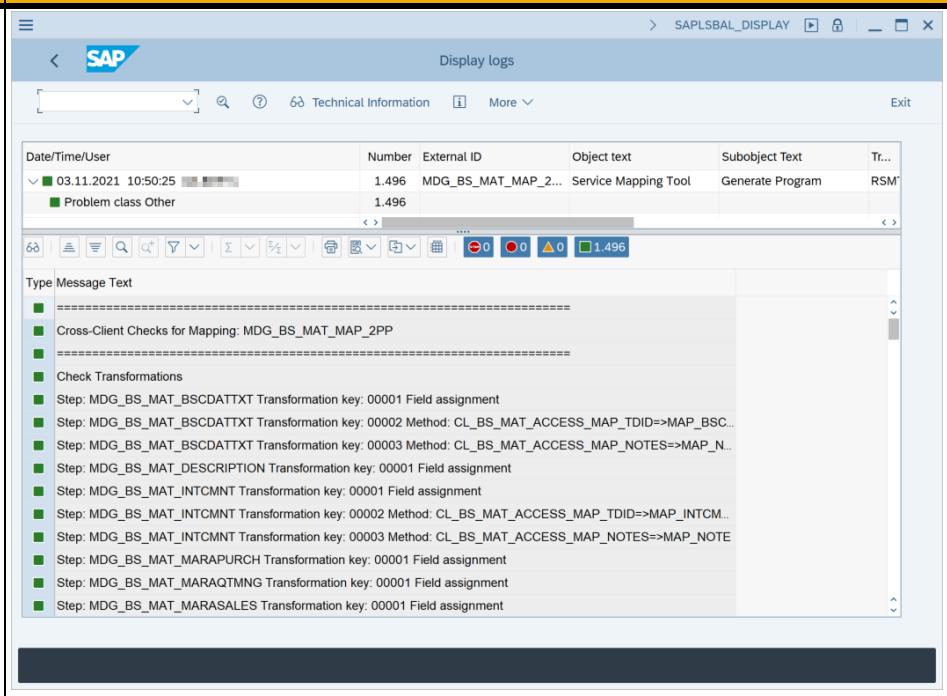
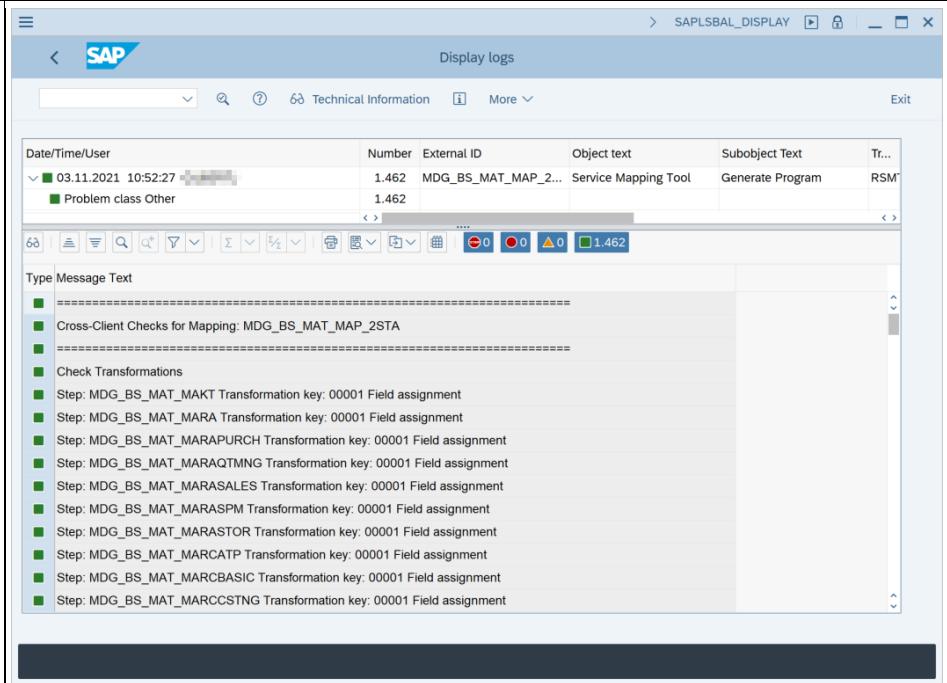
3.6.3. Further Required Steps

Step	Explanation	Screenshot
1	<p>Start transaction MDGIMG.</p> <p>Navigate to General Settings > Data Modeling > Edit Data Model.</p> <p>(In this Customizing activity, you define and activate a data model to map master data in the system, along with its properties and relationships.)</p>	
2	Acknowledge the information that this customizing is cross-client customizing.	
3	<p>Select data model MM and press <i>Adjust Staging Area of Linked Change Requests</i>.</p> <p>This step might be necessary to adjust any open change requests after you have changed the data model.</p> <p>Note: This action must be taken in the appropriate client.</p>	
4	Navigate back to MDGIMG. Navigate to General Settings > Central Governance for Material > Clear UI Metadata Buffers .	

Step	Explanation	Screenshot
5	A success message should be displayed.	

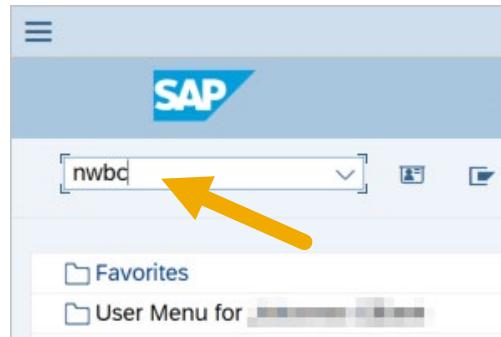
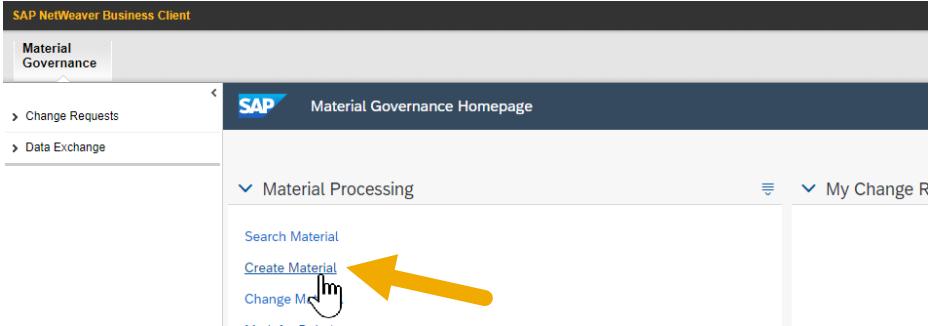
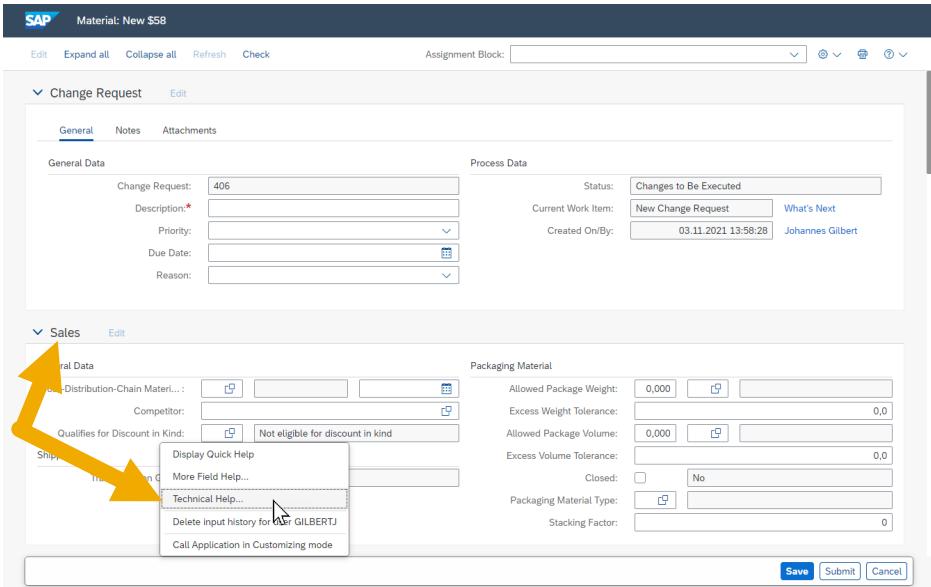
3.6.4. Check Mapping Customizing

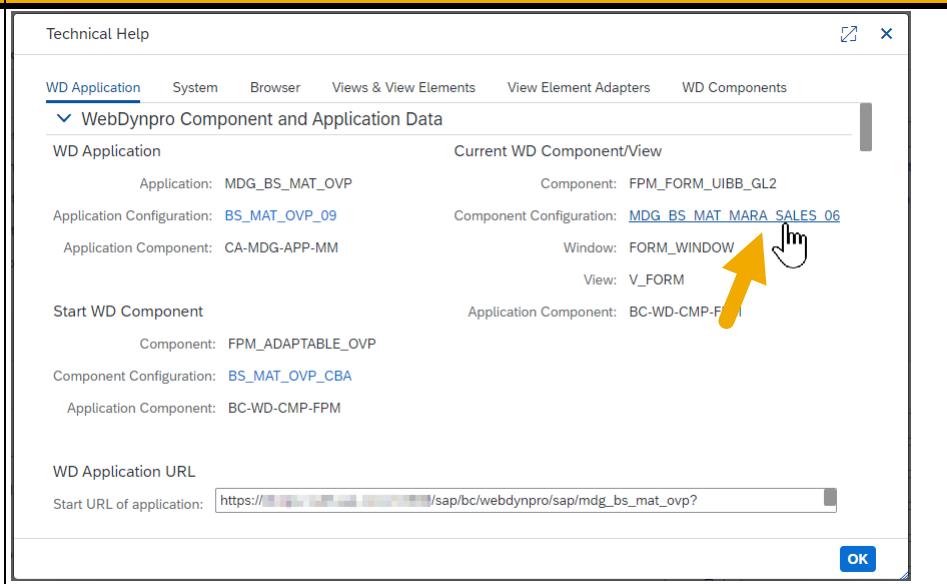
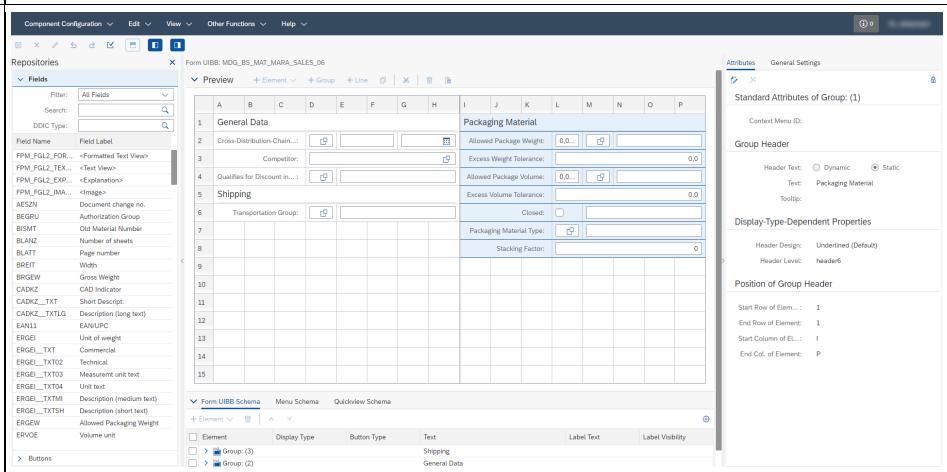
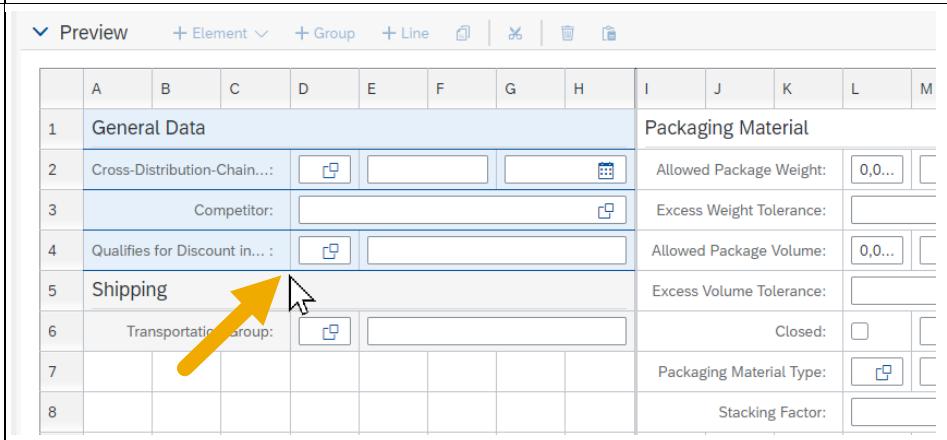
Step	Explanation	Screenshot
1	Start transaction MDGIMG. Navigate to General Settings > Data Modeling > Create and Edit Mappings > Check Customizing.	
2	Enter mapping MDG_BS_MAT_MAP_2PP (you might use the value help). Press Execute.	

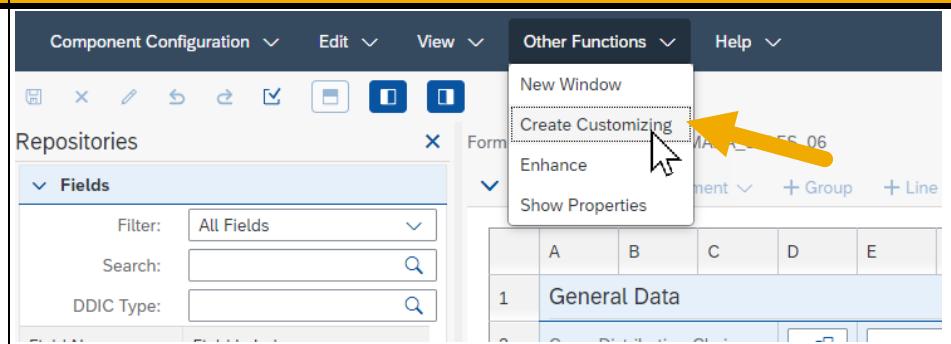
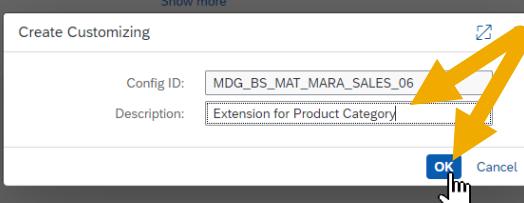
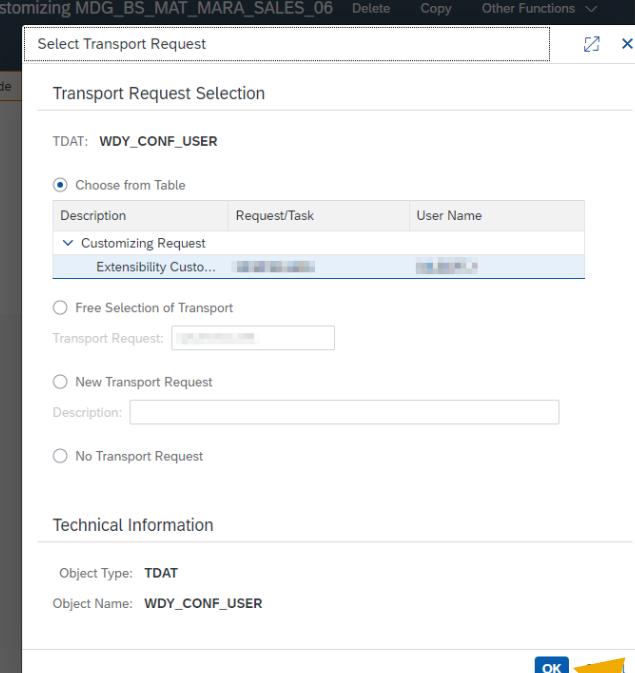
Step	Explanation	Screenshot
3	Add log is displayed. There should not be any error message.	 <p>The screenshot shows the SAP Display logs interface. The title bar says "Display logs". The main area has a table with columns: Date/Time/User, Number, External ID, Object text, Subobject Text, and Tr... . A single row is shown: 03.11.2021 10:50:25, 1.496, MDG_BS_MAT_MAP_2..., Service Mapping Tool, Generate Program, RSM. Below the table is a "Type Message Text" input field containing a log message:</p> <pre> ===== [+] Cross-Client Checks for Mapping: MDG_BS_MAT_MAP_2PP ===== [+] Check Transformations [+] Step: MDG_BS_MAT_BSCDATTXT Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_BSCDATTXT Transformation key: 00002 Method: CL_BS_MAT_ACCESS_MAP_TDID=>MAP_BSC... [+] Step: MDG_BS_MAT_BSCDATTXT Transformation key: 00003 Method: CL_BS_MAT_ACCESS_MAP_NOTES=>MAP_N... [+] Step: MDG_BS_MAT_DESCRIPTION Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_INTCMNT Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_INTCMNT Transformation key: 00002 Method: CL_BS_MAT_ACCESS_MAP_TDID=>MAP_INTCM... [+] Step: MDG_BS_MAT_INTCMNT Transformation key: 00003 Method: CL_BS_MAT_ACCESS_MAP_NOTES=>MAP_NOTE [+] Step: MDG_BS_MAT_MARAPURCH Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARAQTMNG Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARASALES Transformation key: 00001 Field assignment </pre>
4	Repeat steps 2 and 3 for mapping MDG_BS_MAT_MAP_2STA.	 <p>The screenshot shows the SAP Display logs interface. The title bar says "Display logs". The main area has a table with columns: Date/Time/User, Number, External ID, Object text, Subobject Text, and Tr... . A single row is shown: 03.11.2021 10:52:27, 1.462, MDG_BS_MAT_MAP_2..., Service Mapping Tool, Generate Program, RSM. Below the table is a "Type Message Text" input field containing a log message:</p> <pre> ===== [+] Cross-Client Checks for Mapping: MDG_BS_MAT_MAP_2STA ===== [+] Check Transformations [+] Step: MDG_BS_MAT_MAKT Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARA Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARAPURCH Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARAQTMNG Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARASALES Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARASPM Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARASTOR Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARCATP Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARCBASIC Transformation key: 00001 Field assignment [+] Step: MDG_BS_MAT_MARCCSTNG Transformation key: 00001 Field assignment </pre>

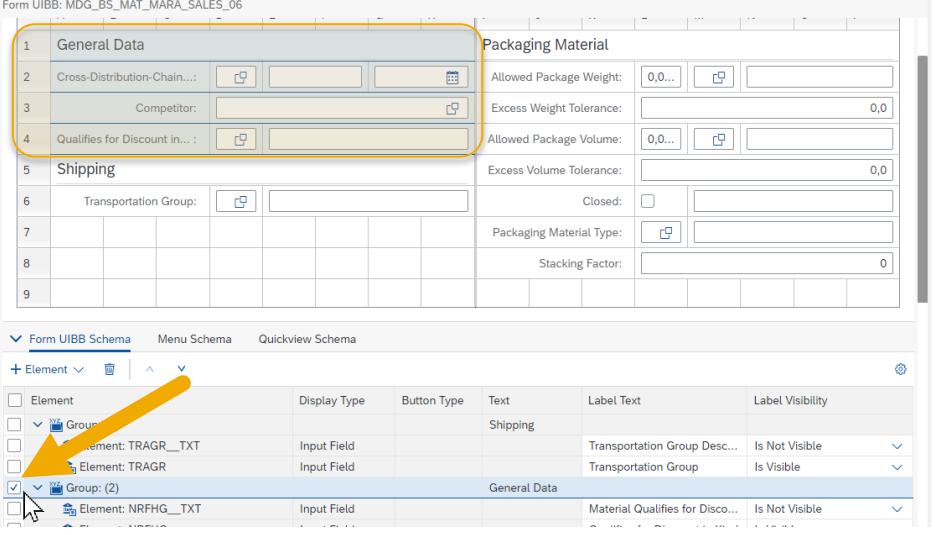
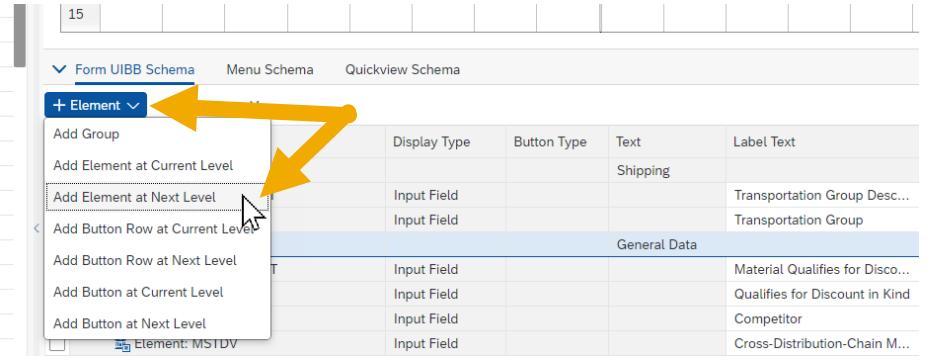
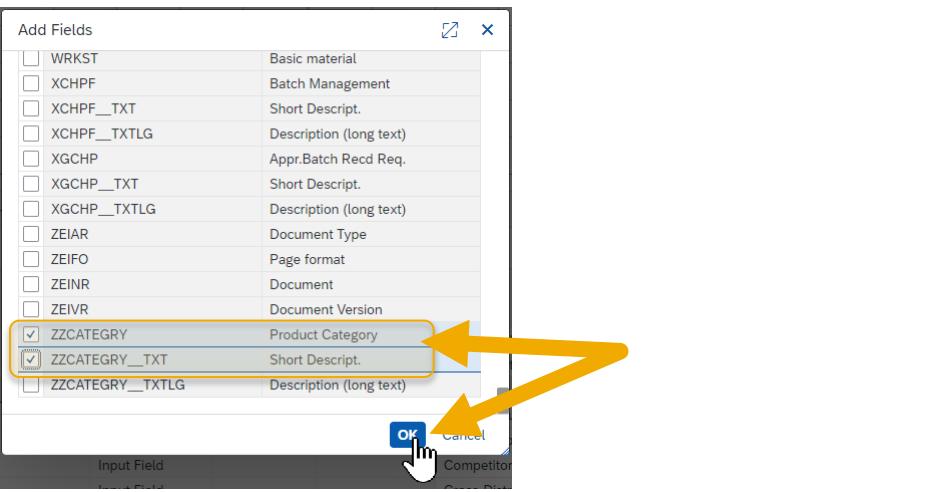
3.7. Extend User Interface

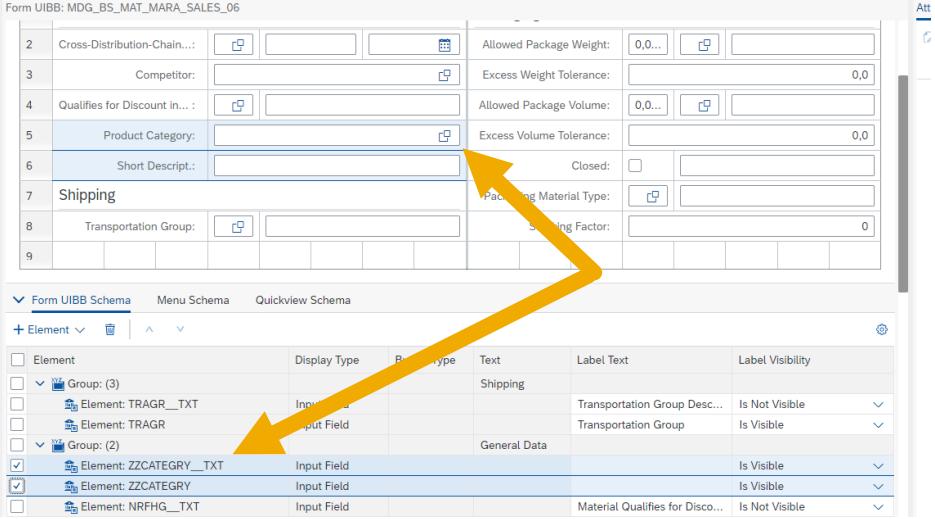
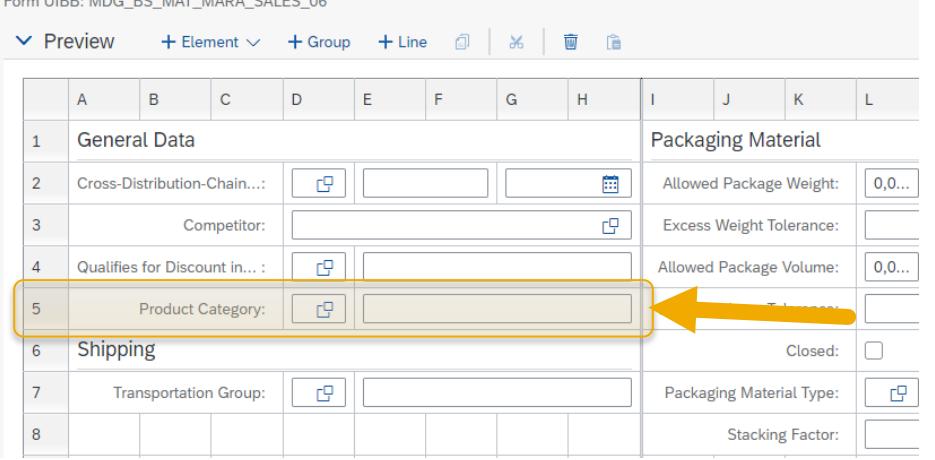
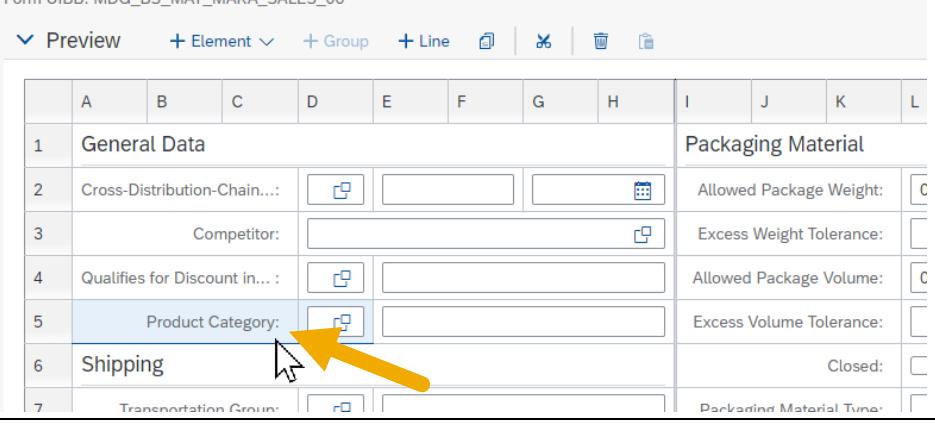
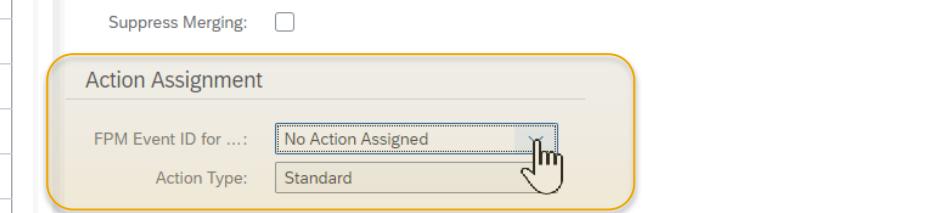
Although there are other guides explaining how to extend the UI in more detail, one approach which uses customizing only is explained in the following. The custom-defined field which has been prepared in the previous chapters is added to WebDynpro application MDG_BS_MAT_OVP. As result users can maintain the custom-defined field *Product Category* via MDG UI.

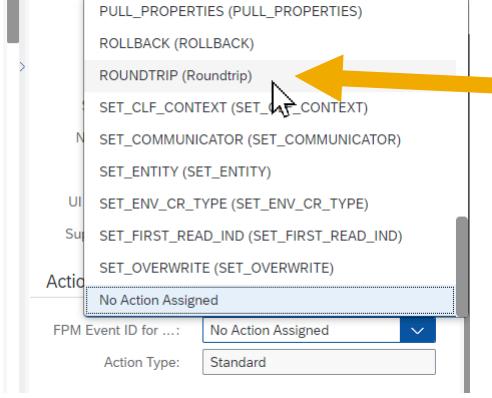
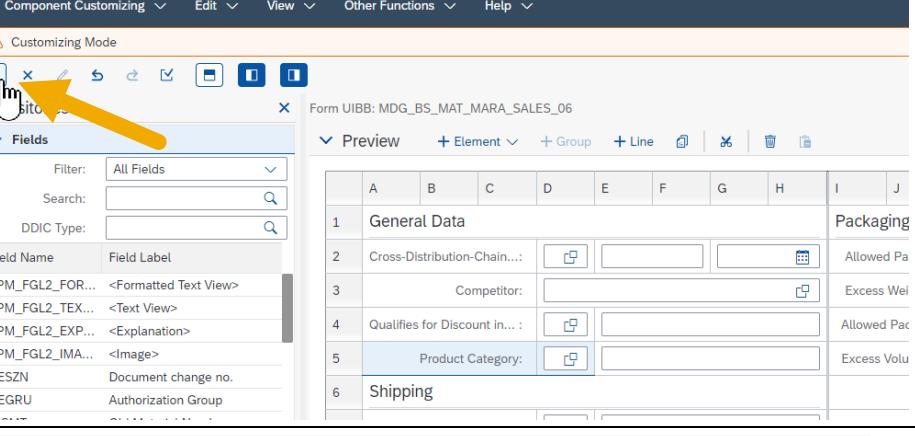
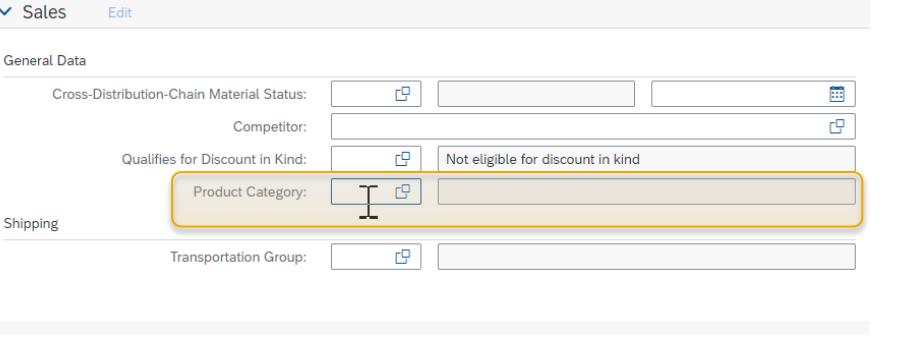
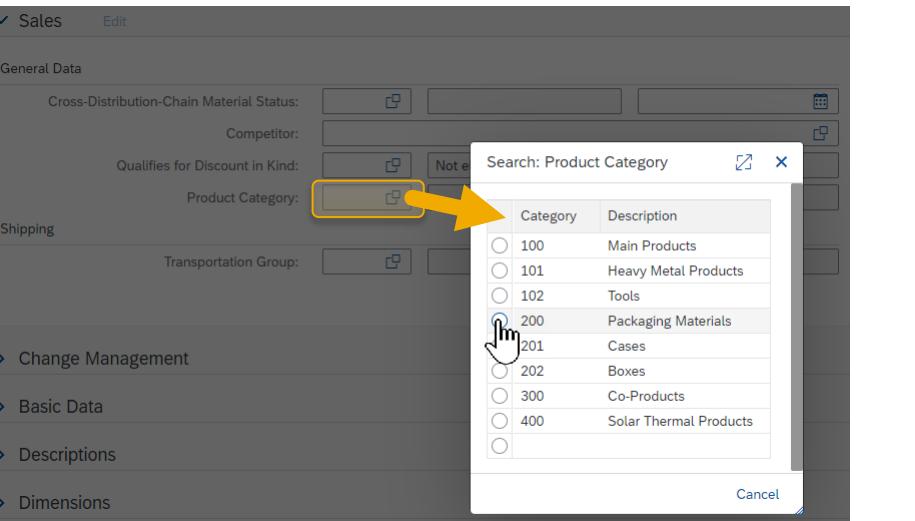
Step	Explanation	Screenshot
1	Start transaction NWBC.	
2	Navigate to the material UI for any material, e.g. by creating a new material.	
3	Open the context menu in assignment block Sales and select Technical Help.	

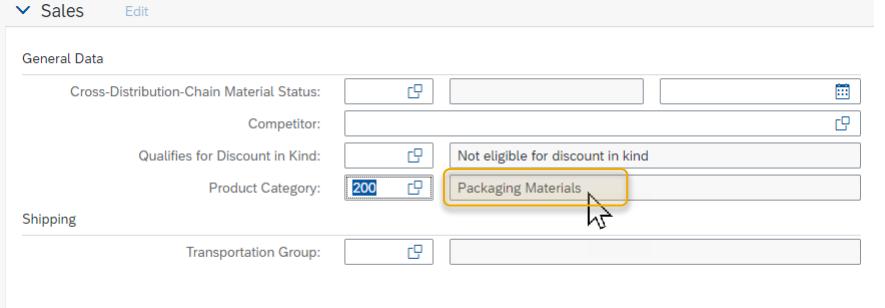
Step	Explanation	Screenshot
4	Click component configuration MDG_BS_MAT_MARA_SALES_06.	
5	A new browser window opens showing the component configuration.	
6	The intention is to add the custom-defined field in group General Data as a fourth line.	

Step	Explanation	Screenshot
7	In the menu press Other Functions > Create Customizing.	
8	A new browser window opens. In pop-up <i>Create Customizing</i> enter a description and press OK .	
9	Create or select a transport request to record your customizing.	

Step	Explanation	Screenshot
10	In tab <i>Form UIBB Schema</i> make sure only the group for general data is selected (group 2).	
11	Press Element > Add Element at Next Level.	
12	<p>In pop-up Add Fields select ZZCATEGRY and ZZCATEGRY__TXT* and press OK.</p> <p>*) The custom-defined field is based on a data element and a domain which contains domain fixed values. Hence a short and long text are automatically presented here.</p>	

Step	Explanation	Screenshot
13	Both fields are added at the start of group 2 in the <i>Form UIBB Schema</i> but are added in rows 5 and 6 on the UI.	
14	Change the appearance of both fields according to your needs. In this example label short description is hidden and both field are arranged in one row (like field <i>Qualities for Discount</i>).	
15	Click field Product Category.	
16	In the attributes panel (right side) scroll to section <i>Action Assignment</i> .	

Step	Explanation	Screenshot
17	Select <i>FPM Event ID</i> ROUNDTRIP. By doing so the short description of the product category is displayed as soon as the user selected it (since a roundtrip is performed).	
18	Press Save.	
19	Looking again at the material UI, the custom-defined field product category is displayed.	
20	Since the product category bases on a domain with domain fixed values a value help is automatically provided.	

Step	Explanation	Screenshot
21	Due to the component customizing the product category's short description is displayed after selection.	

3.8. Search

If the custom-defined field is relevant for selection in the download application or in the search, you must add this field to the template for the MDG-M enterprise search. Doing this prevents a performance bottleneck. The templates you must enhance are the enterprise search template for a search of the staging is MDG_MATERIAL and for the active area the MATERIAL template, if the field is not already contained within that template. For more information, see the guide on [How-To Enhance the Material Enterprise Search](https://www.sap.com/documents/2015/07/f8edc74c-5b7c-0010-82c7-eda71af511fa.html) (<https://www.sap.com/documents/2015/07/f8edc74c-5b7c-0010-82c7-eda71af511fa.html>).

4. ADDITIONAL INFORMATION

In case a custom defined field has been added via Key User Extensibility and Master Data Quality (MDQ) Derivation Scenarios are defined using this field transaction code MDQ_EXEC_DRV_CONS needs to be executed when the custom field is deleted. This is required since the BRFplus structure(s) which are used by the derivation scenario are not automatically adjusted upon deletion of a backend field.

4.1. Further Reading

4.1.1. Information on SAP MDG on SAP S/4HANA

- Exchange knowledge: [SAP Community](#) | [Q&A](#) | [Blog](#)
- Try SAP Master Data Governance on S/4HANA for free: [Trial Version](#)
- Try SAP Master Data Governance on S/4HANA on the SAP Cloud Appliance Library: [S/4HANA 2022 FPS1](#)
- Learn more: [Latest Release](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

4.1.2. SAP Roadmap Explorer

- Please see the [roadmap for SAP Master Data Governance](#)

4.1.3. Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | [FPM Blog](#) | [How-to Information](#) | [Service Mapping Tool](#) | [SAP S/4HANA Cookbook CVI](#)

4.2. SAP Notes

In addition to the detailed explanations written in this document, please see the following SAP Notes for further important information.

Note	Description
3043582	MDG Customer Connection 2020
3194967	MDG Customer Connection 2021 for S/4HANA 2022
3311039	MDG Customer Connection 2023
3428179	Master Data Governance: Continuous Influence
3134600	MDG-M: Supported fields in Data Model MM
1806108	Functional restrictions in MDG-M in MDG7 (incl. SP02)
2129261	Functional restrictions in MDG-M in MDG8
2284745	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.0
2461516	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.1
2656693	Functional Restrictions in MDG for Material in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809
2816571	Functional Restrictions in MDG for Material on SAP S/4HANA 1909

2948873	Functional Restrictions in MDG for Material on SAP S/4HANA 2020
3070012	Functional Restrictions in MDG for Material on SAP S/4HANA 2021
3219945	Functional Restrictions in MDG for Material on SAP S/4HANA 2022
3374998	Functional Restrictions in MDG for Material on SAP S/4HANA 2023
2479869	Usage of Lean Classification with SAP Master Data Governance
1619534	How to Create, Enhance and Adapt FPM Applications
1637249	MDG: Information for efficient message processing
2105467	MDG Performance
2561461	Scope of support for SAP Master Data Governance (MDG)
1637249	MDG: Information for efficient message processing

