



PUBLIC

How-To: Extend MDG-M by a New Reuse Entity Type

Applicable Releases:

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

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Document History

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1.0	First official release of this guide (April 2012)
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8.0	Update (October 2022)
9.0	Small updates (June 2023)

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1. Business Scenario

SAP Master Data Governance for Material (MDG-M) provides business processes to find, create, change, and mark material master data for deletion. It supports the governance of material master data on a central hub and the distribution of material master data 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.

Domain-specific content (data models, user interfaces, workflows) is provided as part of the standard for several application areas. It is a common requirement from customers to adapt the MDG data models to their specific needs.

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.

This guide describes how to extend the preconfigured content of Master Data Governance for Material (using the data model `MM`) by adding a new entity type that already exist as database fields. The attribute values of the new entity type will be copied to the corresponding customer tables (reuse option) after activation of the change request by using BAdI `MDG_BS_MAT_API_SEGMENTS_EXT`.

2. Scenario

The following explanation shows you how to add the new entity type *Business Partner Details* to save Business Partner nicknames for materials as part of the MDG-M data model

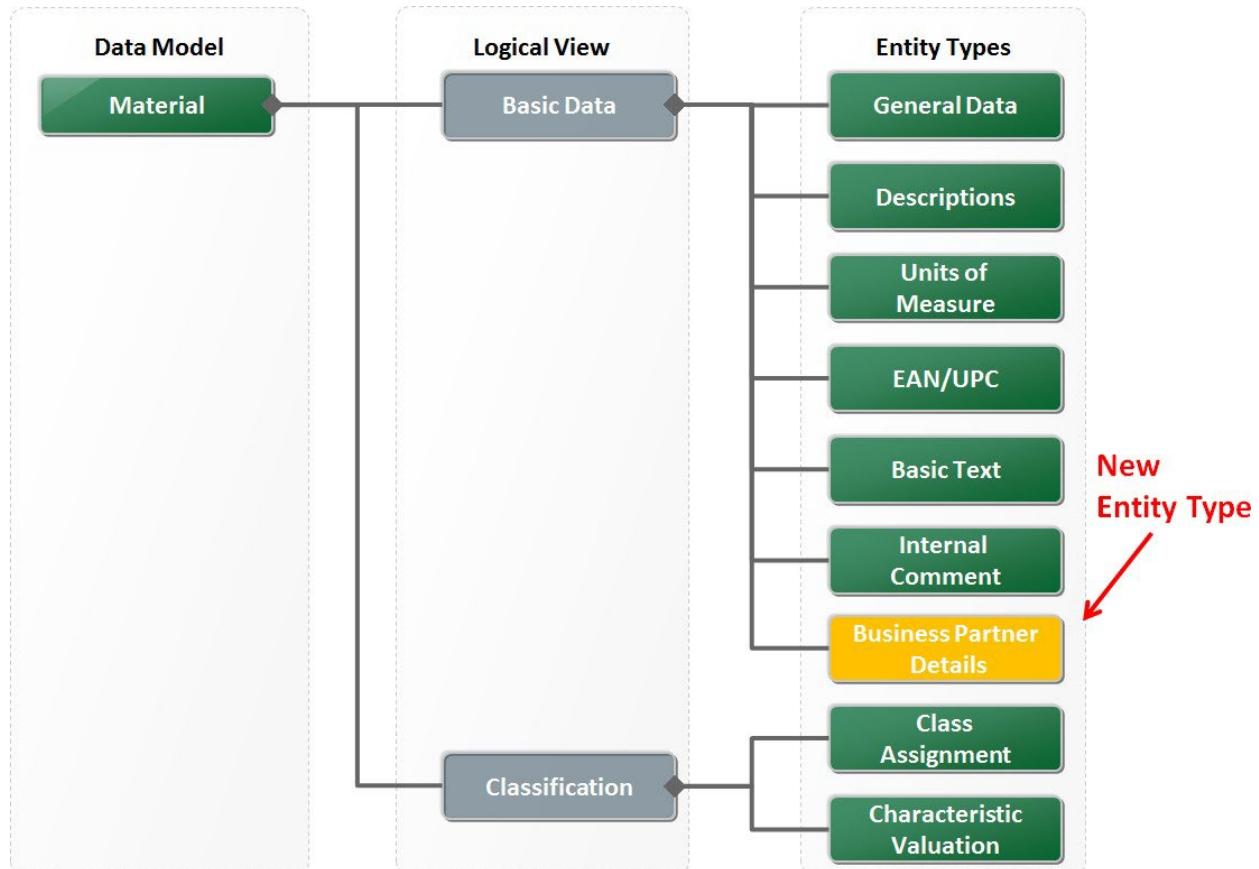


Figure: Data Model – Material (Scope of 2011 Delivery) with custom entity type “Business Partner Details”

3. Background information

In MDG, the data model is a central part of the application. SAP delivers several preconfigured data models that you can start using with little configuration.

Looking at the Material object type and its related data in an abstract way, you can distinguish the following categories of data fields:

- Identifying Material Data ~ 10 fields
- Descriptive Material Data ~ 100 fields
- Process Controlling Material Data ~ 1.000 fields

MDG for material data focuses on the main identifying, descriptive attributes and process controlling data of the Material Master.

It is important to understand that MDG not only delivers the data fields in a model, but also comes with the standard business rules to check for completeness and consistency. These checks are only enforced when necessary in the process.

The delivered standard data model is MM. (This model is linked to the material business object ID: 194. It is also linked to the change request business object type: BUS2550.). You can view the SAP delivered data model in Customizing for *Master Data Governance* under *General Settings > Data Modeling > Edit Data Model*.

The MM data model content for the different releases can be found in SAP Note [3134600](#).

Additional Information:

- A BAdl is available for data enhancement during change request activation (MDG_BS_MAT_API_ENRICH)
- Authorization Concept: Depend on the reuse of backend logic and pre-delivered roles defined in PFCG
- Field control: visibility and mandatory fields are controlled with the field control feature that re-uses the backend logic and existing settings (T130F).

3.1. Data Modeling Concepts in MDG

The meta-model below shows the basic elements making up a MDG data model. When you extend the data model by a new entity type you must also define its relationship to other data model elements and decide on a storage and use type for the new entity type. In the following sections you will find more details regarding these topics.

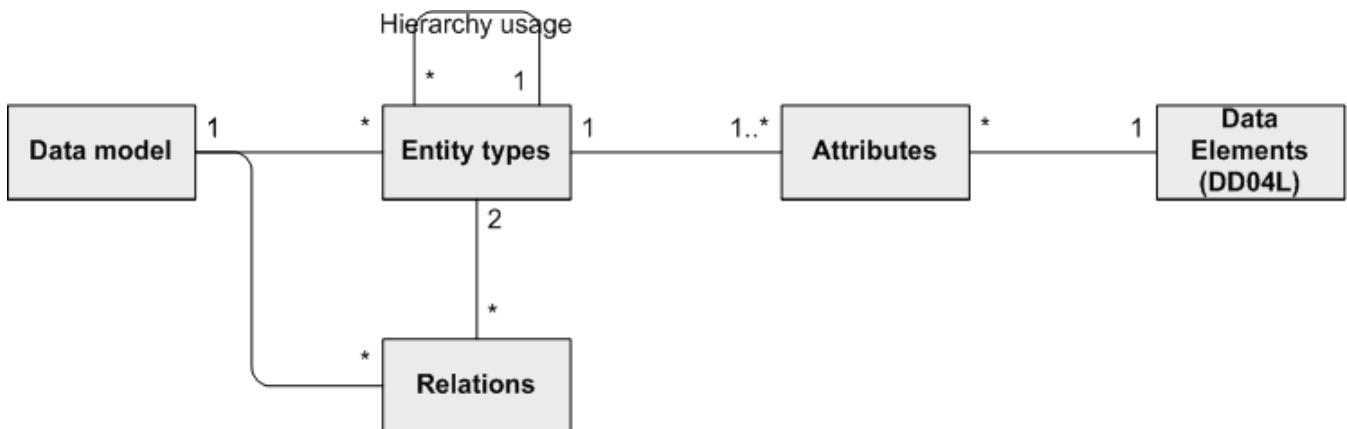


Figure: The meta model is an entity-relationship-model

3.1.1. Storage and Use Types

You assign storage and use type to specify whether and how master data can be changed in Master Data Governance. The storage and use type also indicates which database tables are generated by the system.

Changeable via Change Request; Generated Database Tables (Type 1)	<p>The master data of this storage and use type can be changed in Master Data Governance with a change request. The system generates all necessary database tables: check and text tables as well as additional tables, for example, for attachments and sets. The common key fields of these tables are:</p> <ul style="list-style-type: none"> • The entity type itself • The edition – if you previously specified in the data model that the validity of master data changes is restricted to editions • The entity types that are assigned to the entity type through leading relationships <p>Furthermore, all tables contain a checkbox that indicates whether the master data record is active. Depending on the workflow template used, it is possible that a master data record is not set to active until the change request in which the record was created or changed is released.</p> <p>The settings you make for the entity type (such as language dependency) result in additional key fields in the text table and the tables for attachments and</p>
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	<p>sets.</p> <p>The non-key fields contained in the text table are the entity texts. The non-key fields contained in the check table are the attributes of the entity type. The attachment and set tables contain predefined non-key fields. Furthermore, all database tables contain a checkbox that indicates whether the master data record was deleted. The check table also contains attributes that record which user created or changed the data records and when this was done.</p>
Changeable without Change Request; Generated Check/Text Tables (Type 2)	<p>The master data of this storage and use type can be changed in Master Data Governance without a change request. The system generates only the check and text tables with the entity type as well as with the entity types assigned to the entity type through leading relationships as fixed key fields.</p> <p>The non-key fields contained in the text table are the entity texts. The check table does not contain non-key fields.</p>
Not Changeable via MDG; No Generated Tables (Type 3)	<p>The master data of this storage and use type cannot be changed in Master Data Governance. Therefore, the system does not generate database tables. Instead, the system derives the available values from the domain that is assigned to the data element – either from the assigned value table or from the domain fixed values</p>
Changeable via Other Entity Type; Generated Database Tables (Type 4)	<p>The master data of this storage and use type can be changed in Master Data Governance only with a change request of an entity type with storage and use type 1. The entity type needs to be in a relationship with the relationship type leading and assigned as the <i>To-Entity</i> type to an entity type with storage and use type 1. The system generates the check table as described for storage and use type 1, but also generates the entity types that are assigned through qualifying relationships as key fields. The system does not generate a text table, attachments, or sets since entity texts are not allowed for entity types with this storage and use type.</p>

You can view the settings for storage and use type for existing entity types in Customizing for *Master Data Governance* under *General Settings > Data Modeling > Edit Data Model*. You select the MM data model and double click on *Entity Types* (view cluster VC_USMD001). In the list of entity types you can double click an entity type to view its details as shown below for entity type MATERIAL.

The table below gives you some criterions for the decision between storage and use type 1 and 4.

Criterion	Type1	Type4
Cross-dependencies	Need to handle dependencies between Type1 entities (include into CR, blocking, ...)	Easy to implement
Parallel CRs	Not needed	Necessary if two Type4 entities for same Type1 entity shall be maintained independently
Snapshot	Independent	Together with corresponding Type1 entity and all other Type4 entities (→ Performance)
Enqueue	This entity plus corresponding Type4 entities	This entity, corresponding parent entity and all its child entities
Authorization	Own authorization objects	Depends on authorization object of Type1 entity (plus maybe additional own ones)
Implementation effort	Own access class	BAdI MDG_BS_MAT_API_SEGMENTS_EXT (lean, no CD mapping, enqueue, Query, ...) or own access class
Mass Maintenance	OK	Not possible (exception: 1:1 Relationship)

Multi-Record Processing	No difference
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Important

For more complex requirements like search, mapping, change documents, field properties, authorization, locks or derives, you need to provide an own access class by implementing interface `if_usmd_pp_access` instead of using `MDG_BS_MAT_API_SEGMENTS_EXT` BAdl. This guide only describes the usage of the BAdl `MDG_BS_MAT_API_SEGMENTS_EXT`.

3.1.2. Relationship Type

If you have defined multiple entity types, you can determine what type of relationship should link them (leading, referencing, qualifying, or foreign key relationship). For each relationship, you specify a relationship type and cardinality.

Relationship Type	Definition
Referencing	Specifies the <i>From-Entity type</i> as an attribute of the <i>To-Entity type</i> .
Leading	Specifies the <i>From-Entity type</i> on a higher level than the <i>To-Entity type</i> . The <i>From-Entity type</i> is automatically taken as the key in the generated tables. A <i>Leading</i> relationship type is identical to a <i>Qualifying</i> relationship type, except when the <i>To-Entity type</i> has a <i>Storage and Use Type</i> of 4. Master data for <i>To-Entity types</i> in <i>Leading</i> relationships is processed in the context of the entity type that is assigned using the leading relationship.
Qualifying	Specifies the <i>From-Entity type</i> on a higher level than the <i>To-Entity type</i> . The <i>From-Entity type</i> is automatically taken as the key in the generated tables.

The following options are possible for the relationship between two entity types:

Cardinality	Definition
1:N	This cardinality represents a mandatory relationship in which one or more <i>To-Entity Types</i> can be assigned to a <i>From-Entity Type</i> . This cardinality is valid for relationships with the relationship types <i>Leading</i> , <i>Qualifying</i> , and <i>Referencing</i> . In relationships with the relationship type <i>referencing</i> , the <i>From-Entity Type</i> is a required attribute of the <i>To-Entity Type</i> .
0:N	This cardinality represents an optional relationship in which any number <i>To-Entity Types</i> can be assigned to a <i>From-Entity Type</i> .

Note

Which relationship types are permitted depends on the storage and use types of the entity types. The general design assumption is that there is a 1:N relationship between a database table and its entity types. This means one entity type does not bundle several database tables.

3.2. Reuse Area Versus the Flexible Option

When you extend the SAP delivered data model with a new entity type, you must decide where to store data after the activation of a change request. During the processing of the change request, the system stores data in the MDG staging area. After the activation of a change request, you can move the data to tables outside of MDG or keep the data in the MDG tables.

How-To: Extend MDG-M by a New Reuse Entity Type

For optimal integration into SAP Business Suite, MDG provides the following two persistence modes:

- Generated active area (flex mode): Tables as defined in the MDG data model are used to store active data.
- Reuse active area (re-use mode): Existing structures of applications are used. For example, MDG for material makes use of the MARA table.

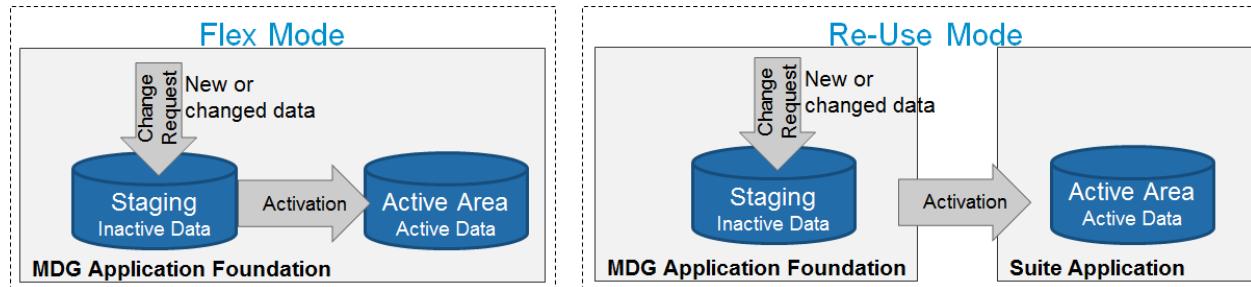


Figure: Flexibility Option (left) versus Reuse Option (right)

Where the data is stored is specified by the *Reuse Area* setting on the *Data Model* or *Entity Type* level as shown in the screenshots below.

The screenshot shows the **Change View "Inactive Data Models": Overview** dialog. The left pane displays the **Dialog Structure** with categories like **Inactive Data Models**, **Entity Types**, **Relationships**, and **Reuse Active Areas**. The right pane displays a table of **Inactive Data Models**:

Data Model	Description (medium text)	Reuse Area
OF	Chart of Accounts	
OG	Chart of Accounts and Org. Units	
BP	Business Partner	PARTNER
MM	Material Maintenance MM01/02	MATERIAL
TD	Flight Data Model f. Field Property Test	TD
Z1	Copy of MM for message processing	MATERIAL
Z2	Copy of MM for message processing	MATERIAL
29	test	

Figure: Assignment of Reuse Area for the Data Model MM

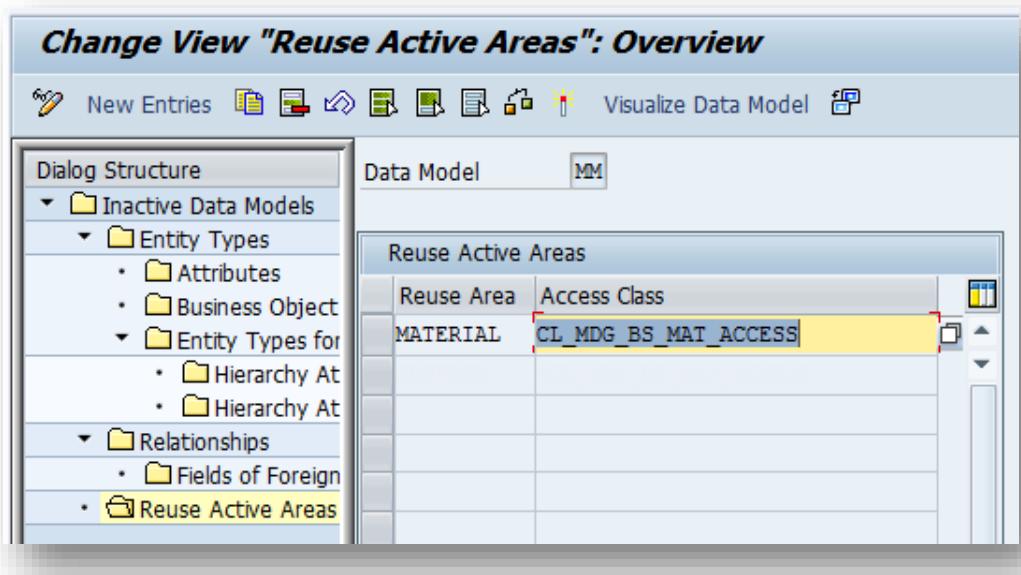


Figure: Assignment of Access Class for Reuse Area MATERIAL

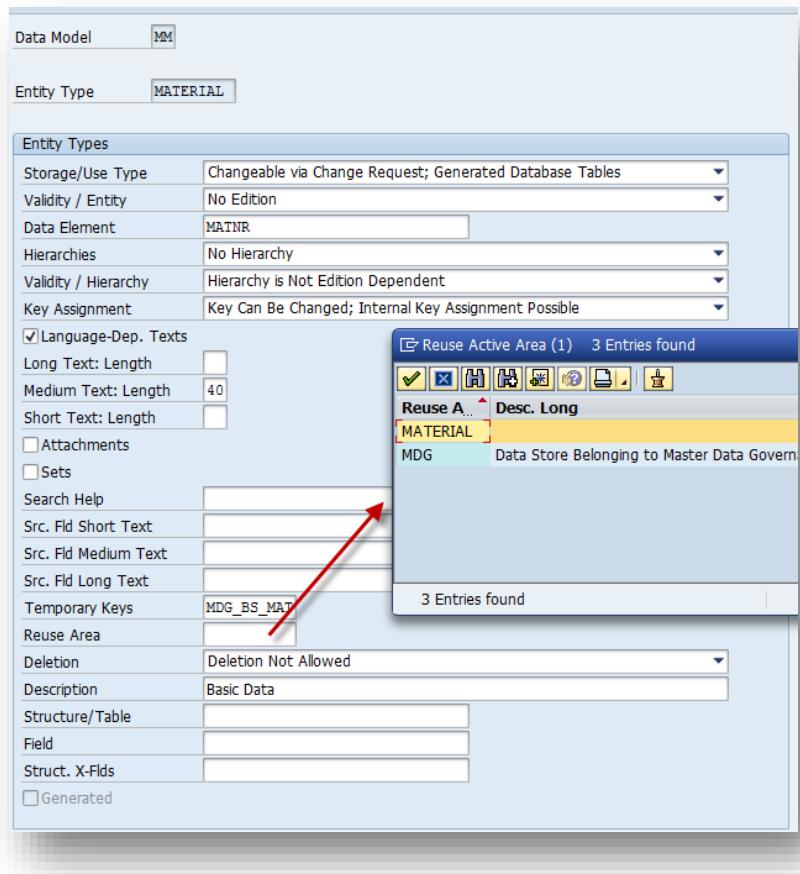


Figure: Alternative assignment of Reuse Area on Entity Type level

The MDG 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 all fields of the pre-delivered data model and some more.

If you extend the data model by a new entity type and want the data of that entity type to remain in the MDG tables after activation you can choose MDG as a reuse area.

The table below gives you some criterions for the decision between flex or reuse mode.

Criterion	Flex	Reuse (Z table)
Direct Update of Active Area (for migration, ...)	Not possible	Possible and used in IDoc/DIF/LSMW/API/...
DIF usage	Not recommended for MDG-M (can't write to active area)	OK
SOA	Not recommended for MDG-M (can't write to active area)	OK
Access/usage in productive applications (in co-deployment) like <ul style="list-style-type: none"> • Search • Typed read access • ... 	Dynamic tables, access only via IF_USMD_MODEL_EXT->READ_CHAR_VALUE (or complex select), no indices on DB level	Can be tuned via indices, view definition possible and transportable, ...
Performance in maintenance	<ul style="list-style-type: none"> • Flex entities need no snapshot (and snapshot comparison) • Number of records in active area has impact on performance 	<ul style="list-style-type: none"> • Reuse entities need snapshot • Number of records in reuse active area has no impact on performance
Project effort	No additional coding required (plus optional additional checks, feeder class, ...)	Coding needed – either implementation of BAdI MDG_BS_MAT_API_SEGMENTS_EXT or specific access class
Use case	Co-Deployment: Stays in MDG, no need to access data operatively	Co-Deployment: Needs to be accessed by operative processes. Both deployments: Take existing data/extensions under governance. Both deployments: Data import must be done without CR for performance reasons (or no governance for migration/import needed).
File Upload	No difference (updates only staging)	
Mass Maintenance/Multi-Record Processing	No difference	
DRF usage	No difference	

3.3. Input Help (Accessible Using the F4 Key)

The system applies the following rules of precedence when assigning input help:

1. Search help assignment in data model definition
2. Backend structure MDG_BS_MAT_S_MARA, MDG_BS_MAT_S_* (not existing for Flex Entities)
 - a. Search help assignment in the structure
 - b. Value table on domain with foreign key association

3. Search help assignment on data element (for flex entities)
4. Fixed values or value table on domain

 **Note**

Value table on domain without foreign key assignment (for flex entities) is not supported out of the box.

3.4. Code Lists

The considered code list for the check comes from the *Fixed Values* or *Value Range* table which is assigned to the domain of the data element.

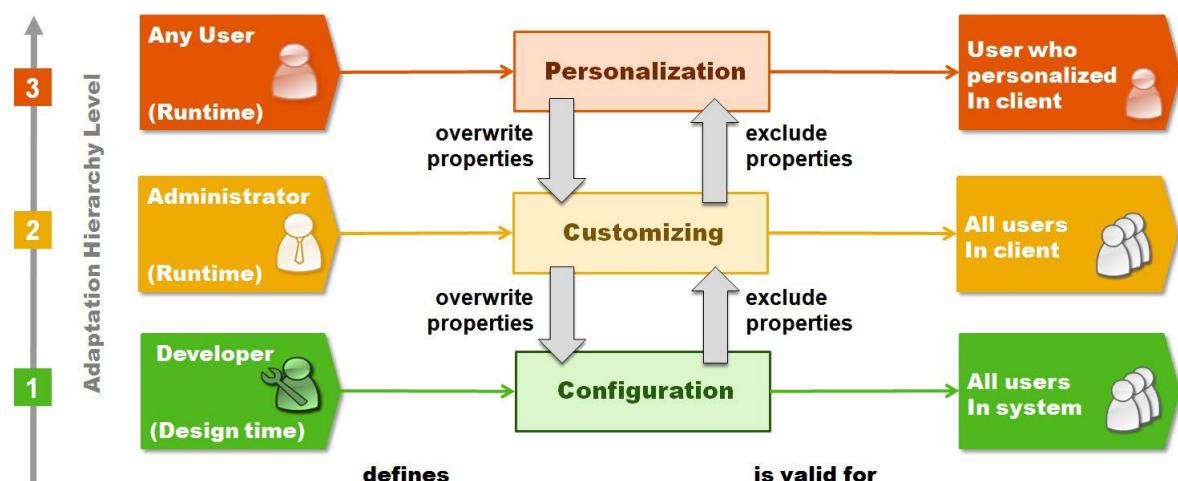
3.5. Data Modeling Considerations for List-UIBBS

If you want the Material UI to use two or more list UIBBs (User Interface Building Blocks), you must adjust the data model. You can implement independent list UIBBs or interdependent list UIBBs. For more information, see the table below.

UIBB	Desired System Behavior	Action
Independent List UIBBs	Changes to one list UIBB have no impact on the other list UIBB.	Create separate entity types and assign one to each List- UIBB.
Interdependent List UIBBs	If you create a new row for the same key in one UIBB, the system creates a new row in the other UIBB.	Either assign the same entity type for both List-UIBBS or implement a derivation.

3.6. UI: Adaptation Options in Floorplan Manager

A Floorplan Manager UI can be adapted using different techniques. The figure below shows the relationship between configuration, customizing, and personalization. Context-Based-Adaptation is another way the user interface can be customized for specific use cases.



In the context of MDG, you typically choose to *customize* the SAP delivered configuration. Only if customization is not feasible do you copy the SAP delivered UI configuration to the

customer namespace and change the copy.

In the following cases the UI should be copied rather than customized:

- Code changes are required
- The UI needs to be changed for all users in the system and not only client-specific
- The changes to the UI are extensive

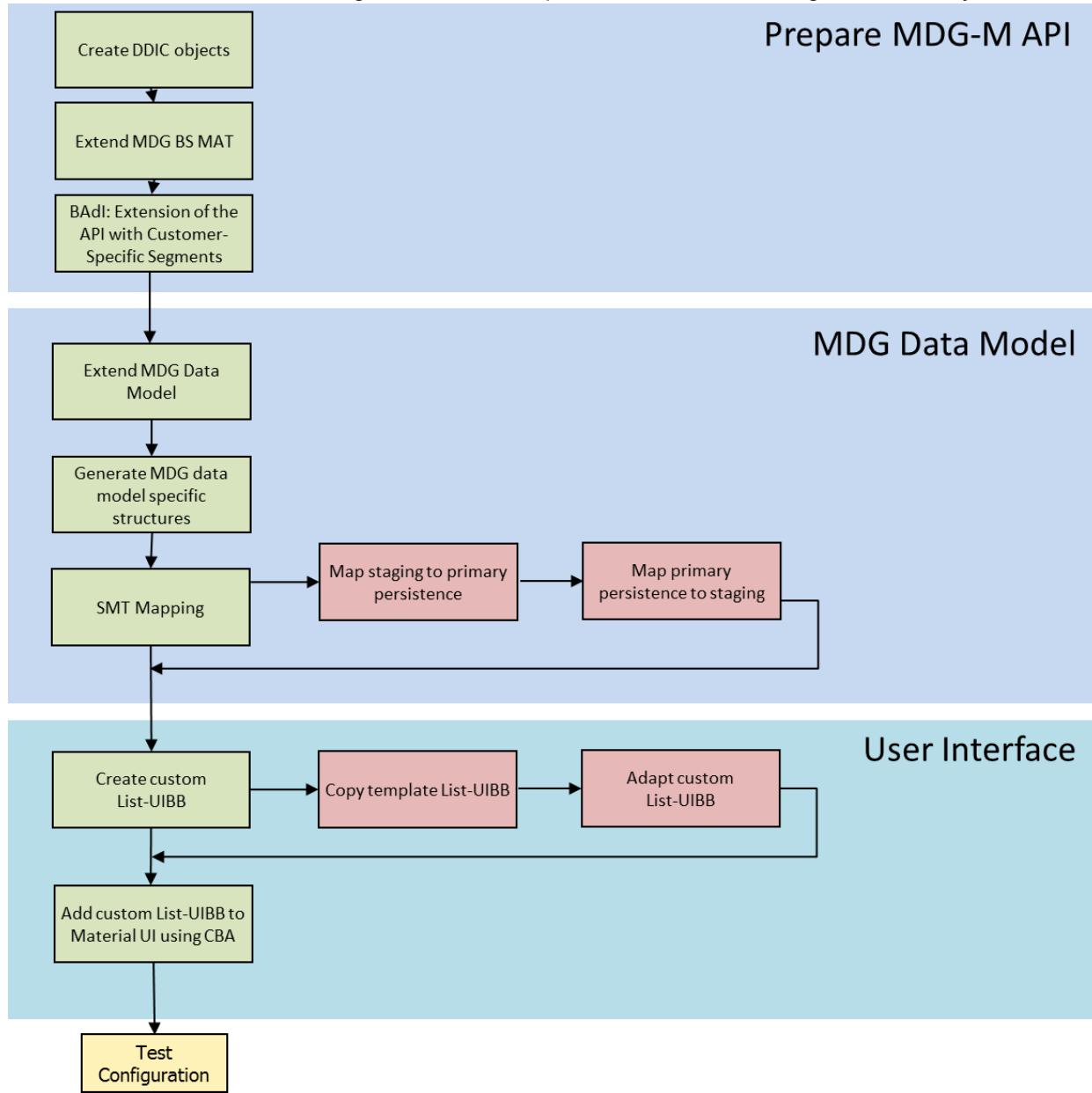
 **Note**

For more details regarding options for Floorplan manager user interface adaptation, advantages, disadvantages, and steps required please familiarize yourself with SAP Note [1619534](#). See also How To Guide for the UI [Extend MDG-M User Interface](#).

4. Step by Step Explanation

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

The flow diagram below shows the detailed implementation steps. We recommend you use it as an orientation. Each box in the diagram below corresponds to a section in this guide in which you find detailed



execution instructions.

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

4.1. Prepare MDG-M API

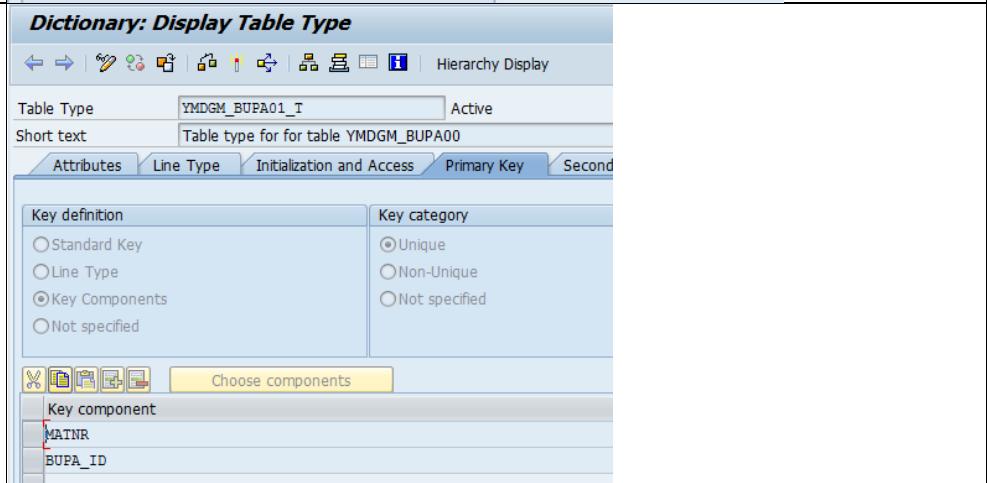
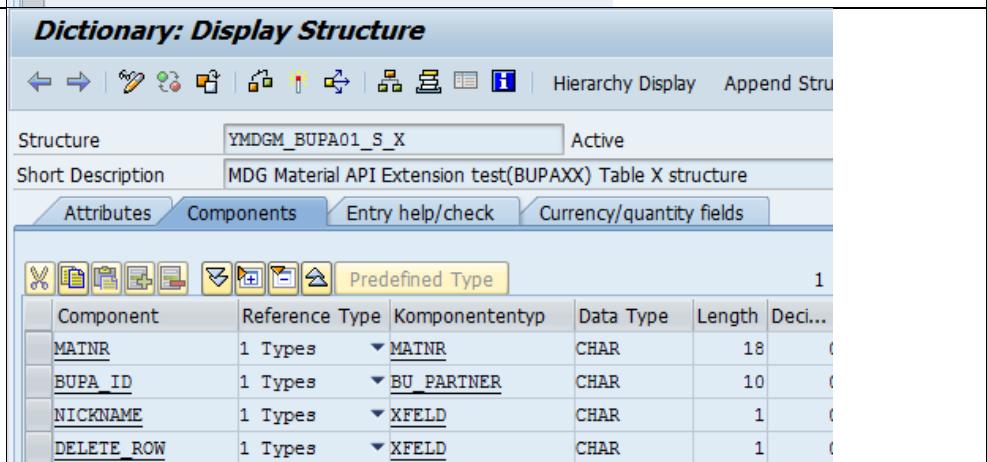
4.1.1. Create DDIC Objects

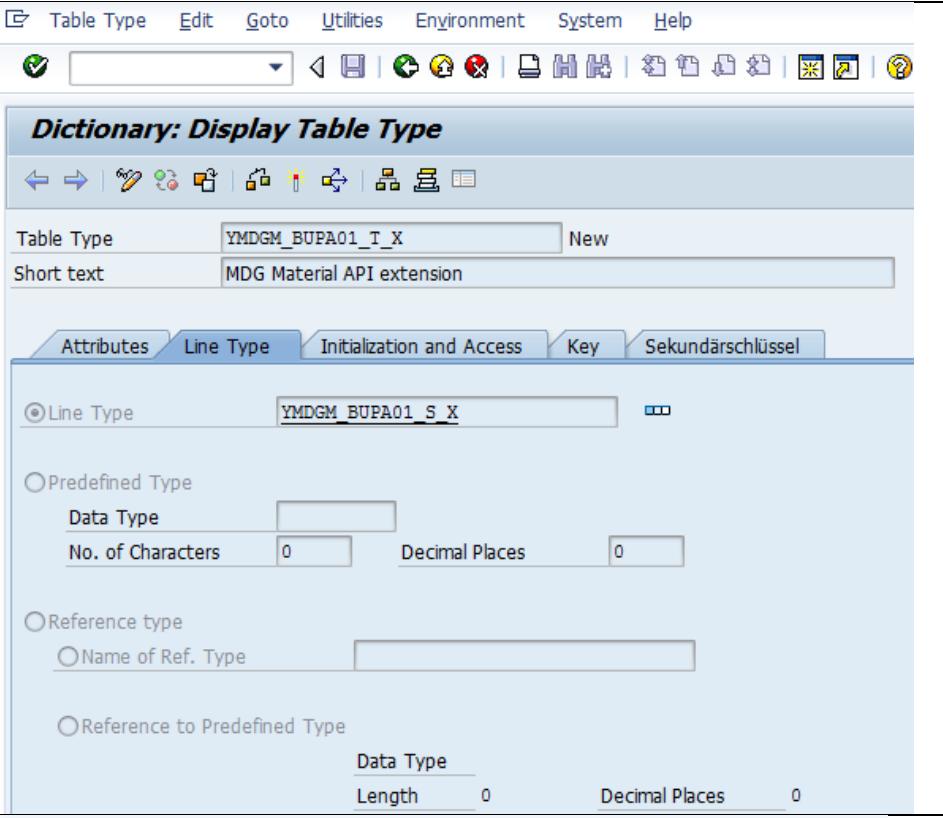
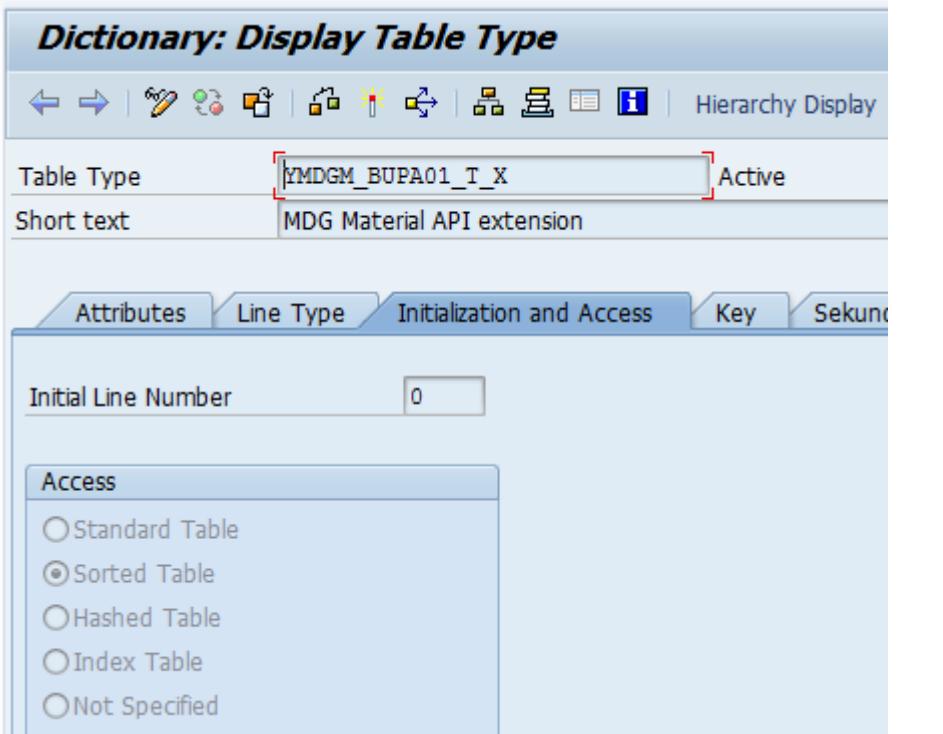
In this section you create the table and structure that you use to store master data after activation in MDG. After activation data will be transferred from the MDG staging area to the table that you define in the following steps.

How-To: Extend MDG-M by a New Reuse Entity Type

1.	<p>In transaction SE11 create table YMDGM_BUPA00 as shown.</p>	<table border="1"> <thead> <tr> <th>Field</th><th>Key</th><th>Ini...</th><th>Data element</th><th>Data Type</th><th>Length</th><th>Deci...</th><th>Short Description</th></tr> </thead> <tbody> <tr> <td>MANDT</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>MANDT</td><td>CLNT</td><td>3</td><td>0</td><td>Client</td></tr> <tr> <td>MATNR</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>MATNR</td><td>CHAR</td><td>18</td><td>0</td><td>Material Number</td></tr> <tr> <td>BUPA_ID</td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td>BU_PARTNER</td><td>CHAR</td><td>10</td><td>0</td><td>Business Partner Number</td></tr> <tr> <td>NICKNAME</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>NICKNAME</td><td>CHAR</td><td>40</td><td>0</td><td>Nickname or name used</td></tr> </tbody> </table>	Field	Key	Ini...	Data element	Data Type	Length	Deci...	Short Description	MANDT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MANDT	CLNT	3	0	Client	MATNR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MATNR	CHAR	18	0	Material Number	BUPA_ID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	BU_PARTNER	CHAR	10	0	Business Partner Number	NICKNAME	<input type="checkbox"/>	<input type="checkbox"/>	NICKNAME	CHAR	40	0	Nickname or name used														
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2.	<p>In transaction SE11 create structure YMDGM_BUPA01_S as shown.</p>	<table border="1"> <thead> <tr> <th>Component</th><th>Key</th><th>Ini...</th><th>Reference Type</th><th>Komponententyp</th><th>Data Type</th><th>Length</th><th>Deci...</th><th>Short Description</th></tr> </thead> <tbody> <tr> <td>.INCLUDE</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Types</td><td>YMDGM_BUPA00</td><td>oo</td><td>0</td><td>0</td><td>MDG Material API extension</td></tr> <tr> <td>MANDT</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Types</td><td>MANDT</td><td>CLNT</td><td>3</td><td>0</td><td>Client</td></tr> <tr> <td>MATNR</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Types</td><td>MATNR</td><td>CHAR</td><td>18</td><td>0</td><td>Material Number</td></tr> <tr> <td>BUPA_ID</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Types</td><td>BU_PARTNER</td><td>CHAR</td><td>10</td><td>0</td><td>Business Partner Number</td></tr> <tr> <td>NICKNAME</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Types</td><td>NICKNAME</td><td>CHAR</td><td>40</td><td>0</td><td>Nickname or name used</td></tr> </tbody> </table>	Component	Key	Ini...	Reference Type	Komponententyp	Data Type	Length	Deci...	Short Description	.INCLUDE	<input type="checkbox"/>	<input type="checkbox"/>	Types	YMDGM_BUPA00	oo	0	0	MDG Material API extension	MANDT	<input type="checkbox"/>	<input type="checkbox"/>	Types	MANDT	CLNT	3	0	Client	MATNR	<input type="checkbox"/>	<input type="checkbox"/>	Types	MATNR	CHAR	18	0	Material Number	BUPA_ID	<input type="checkbox"/>	<input type="checkbox"/>	Types	BU_PARTNER	CHAR	10	0	Business Partner Number	NICKNAME	<input type="checkbox"/>	<input type="checkbox"/>	Types	NICKNAME	CHAR	40	0	Nickname or name used
Component	Key	Ini...	Reference Type	Komponententyp	Data Type	Length	Deci...	Short Description																																																
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BUPA_ID	<input type="checkbox"/>	<input type="checkbox"/>	Types	BU_PARTNER	CHAR	10	0	Business Partner Number																																																
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3.	<p>In transaction SE11 create table type YMDGM_BUPA01_T as shown.</p>	<table border="1"> <thead> <tr> <th>Table Type</th><th>Active</th></tr> </thead> <tbody> <tr> <td>YMDGM_BUPA01_T</td><td><input checked="" type="checkbox"/></td></tr> <tr> <td>Short text</td><td>MDG Material API extension</td></tr> </tbody> </table> <p>Line Type: YMDGM_BUPA01_S</p> <p>Predefined Type:</p> <table border="1"> <tr> <td>Data Type</td><td><input type="text"/></td></tr> <tr> <td>No. of Characters</td><td><input type="text"/>0</td><td>Decimal Places</td><td><input type="text"/>0</td></tr> </table> <p>Reference type:</p> <table border="1"> <tr> <td>Name of Ref. Type</td><td><input type="text"/></td></tr> </table> <p>Reference to Predefined Type:</p> <table border="1"> <tr> <td>Data Type</td><td><input type="text"/></td></tr> <tr> <td>Length</td><td><input type="text"/>0</td><td>Decimal Places</td><td><input type="text"/>0</td></tr> </table>	Table Type	Active	YMDGM_BUPA01_T	<input checked="" type="checkbox"/>	Short text	MDG Material API extension	Data Type	<input type="text"/>	No. of Characters	<input type="text"/> 0	Decimal Places	<input type="text"/> 0	Name of Ref. Type	<input type="text"/>	Data Type	<input type="text"/>	Length	<input type="text"/> 0	Decimal Places	<input type="text"/> 0																																		
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How-To: Extend MDG-M by a New Reuse Entity Type

4. Make sure table type YMDGM_BUPA01_T is a <i>Sorted Table</i> .	 <p>The screenshot shows the SAP Dictionary interface for a table type named YMDGM_BUPA01_T. In the 'Access' section, the 'Sorted Table' option is selected and highlighted with a red oval.</p>																														
5. Make sure table type YMDGM_BUPA01_T uses the keys as shown.	 <p>The screenshot shows the SAP Dictionary interface for a table type named YMDGM_BUPA01_T. The 'Primary Key' tab is selected. The key definition is set to 'Key Components'. The key components listed are MATNR and BUPA_ID.</p>																														
6. In transaction SE11 create structure YMDGM_BUPA01_S_X as shown. Note: <i>DELETE_ROW</i> indicates that this row shall be deleted	 <p>The screenshot shows the SAP Dictionary interface for a structure named YMDGM_BUPA01_S_X. The 'Components' tab is selected. The structure contains four components: MATNR, BUPA_ID, NICKNAME, and DELETE_ROW. The DELETE_ROW component is marked with a yellow warning icon, indicating it is a delete row.</p> <table border="1" data-bbox="516 1538 1341 1740"> <thead> <tr> <th>Component</th> <th>Reference Type</th> <th>Komponententyp</th> <th>Data Type</th> <th>Length</th> <th>Deci...</th> </tr> </thead> <tbody> <tr> <td>MATNR</td> <td>1 Types</td> <td>▼ MATNR</td> <td>CHAR</td> <td>18</td> <td>0</td> </tr> <tr> <td>BUPA_ID</td> <td>1 Types</td> <td>▼ BU_PARTNER</td> <td>CHAR</td> <td>10</td> <td>0</td> </tr> <tr> <td>NICKNAME</td> <td>1 Types</td> <td>▼ XFIELD</td> <td>CHAR</td> <td>1</td> <td>0</td> </tr> <tr> <td>DELETE_ROW</td> <td>1 Types</td> <td>▼ XFIELD</td> <td>CHAR</td> <td>1</td> <td>0</td> </tr> </tbody> </table>	Component	Reference Type	Komponententyp	Data Type	Length	Deci...	MATNR	1 Types	▼ MATNR	CHAR	18	0	BUPA_ID	1 Types	▼ BU_PARTNER	CHAR	10	0	NICKNAME	1 Types	▼ XFIELD	CHAR	1	0	DELETE_ROW	1 Types	▼ XFIELD	CHAR	1	0
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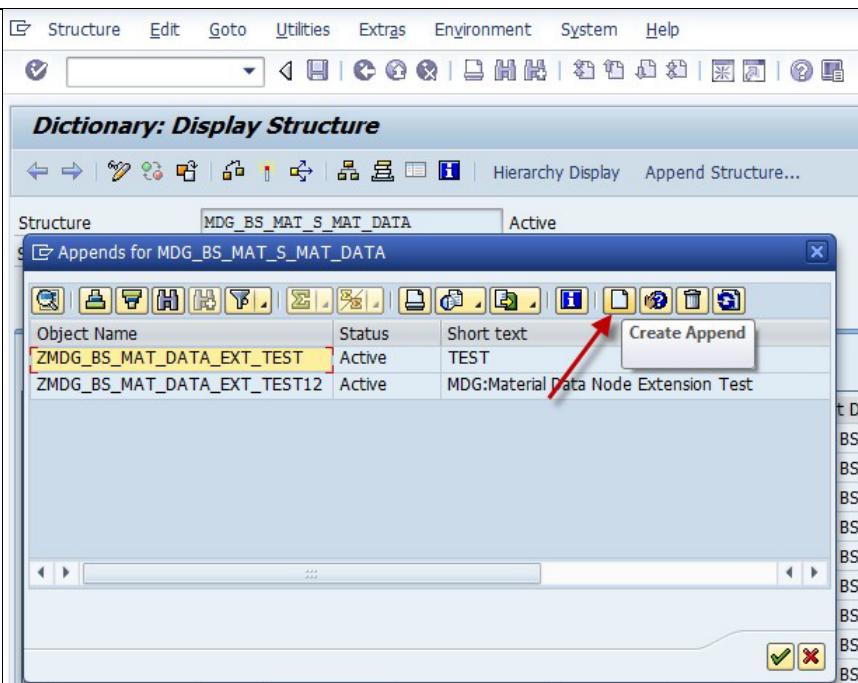
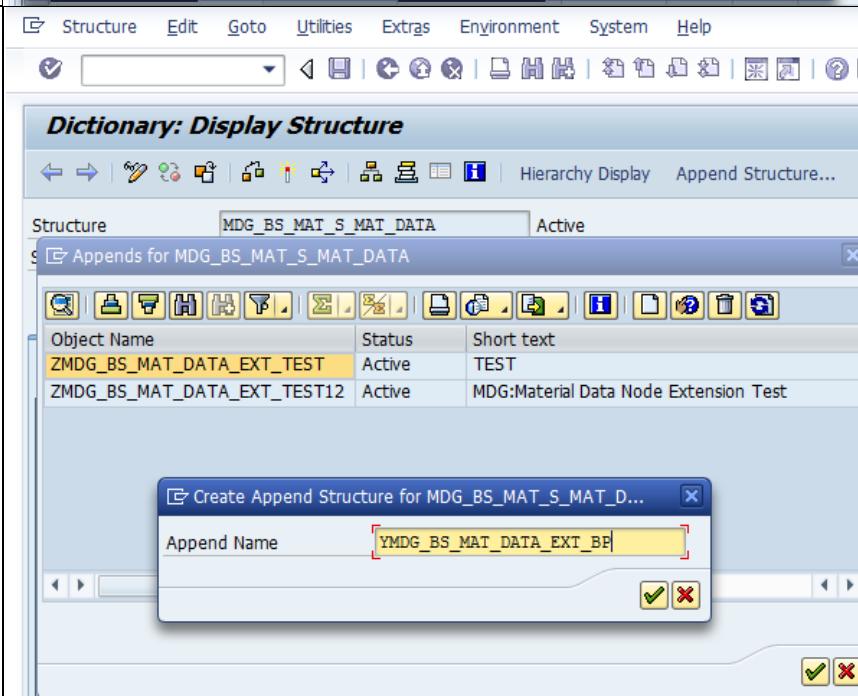
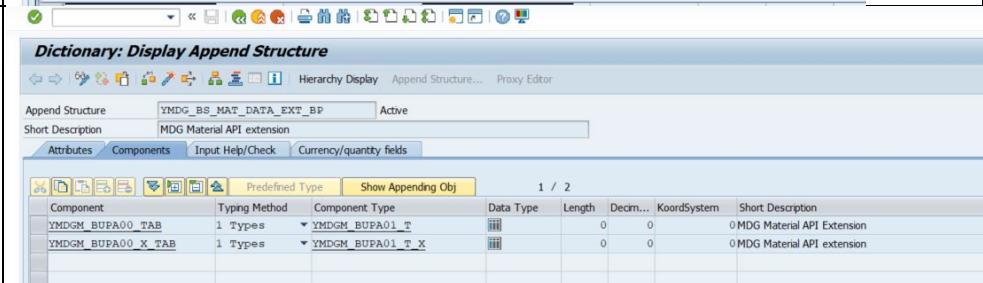
7.	<p>In transaction SE11 create table type YMDGM_BUPA01_T_X as shown.</p> 
8.	<p>Make sure table type YMDGM_BUPA01_T_X is a sorted table.</p> 

9. Make sure table type YMDGM_BUPA01_T_X has the key fields as shown.	<p>Dictionary: Display Table Type</p> <p>Table Type: YMDGM_BUPA01_T_X Active</p> <p>Short text: MDG Material API extension</p> <p>Attributes Line Type Initialization and Access Key Sekundärsc</p> <table border="1"> <thead> <tr> <th>Key definition</th> <th>Key category</th> </tr> </thead> <tbody> <tr> <td> <input type="radio"/> Standard key <input type="radio"/> Line type <input checked="" type="radio"/> Key components <input type="radio"/> Not specified </td> <td> <input checked="" type="radio"/> Unique <input type="radio"/> Non-unique <input type="radio"/> Not specified </td> </tr> </tbody> </table> <p>Choose components</p> <table border="1"> <thead> <tr> <th>Key component</th> </tr> </thead> <tbody> <tr> <td>MATNR</td> </tr> <tr> <td>BUPA_ID</td> </tr> </tbody> </table>	Key definition	Key category	<input type="radio"/> Standard key <input type="radio"/> Line type <input checked="" type="radio"/> Key components <input type="radio"/> Not specified	<input checked="" type="radio"/> Unique <input type="radio"/> Non-unique <input type="radio"/> Not specified	Key component	MATNR	BUPA_ID
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Key component								
MATNR								
BUPA_ID								

4.1.2. Extend MDG BS MAT (Material Master Data Structure)

1. Start transaction SE11. Enter MDG_BS_MAT_S_MAT_DATA as shown. Choose Display.	<p>Dictionary: Initial Screen</p> <p>Dictionary Object Edit Goto Utilities Environment System</p> <p> <input type="radio"/> Database table <input type="radio"/> View <input checked="" type="radio"/> Data type: MDG_BS_MAT_S_MAT_DATA <input type="radio"/> Typgruppe <input type="radio"/> Domain <input type="radio"/> Search help <input type="radio"/> Lock object </p> <p>Display Change Create</p>
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How-To: Extend MDG-M by a New Reuse Entity Type

2.	<p>Create a new Append.</p> 
3.	<p>Enter the <i>Append Name</i> as shown.</p> 
4.	<p>Enter the append component details as shown.</p> 

How-To: Extend MDG-M by a New Reuse Entity Type

<p>5. Save your changes and make sure that the append appears in structure MDG_BS_MAT_S_MAT_DATA as shown.</p> <p>Important naming convention:</p> <p><Tablename>_TAB for the data part and <Tablename>_X_TAB for the change structure with <Tablename> being the name of the database table you want to put under governance.</p>	<table border="1"> <thead> <tr> <th>Component</th> <th>Typing Method</th> <th>Component Type</th> <th>Data Type</th> <th>Length</th> <th>Decim...</th> <th>KoordSystem</th> <th>Short Description</th> </tr> </thead> <tbody> <tr><td>SALES_NOTES_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_NO.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG BS MAT: Notes Table for Sales</td></tr> <tr><td>SALES_NOTES_LIN</td><td>1 Types</td><td>MDG_BS_MAT_T_NO.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG BS MAT: Notes Table for Sales (formatted)</td></tr> <tr><td>SALES_NOTES_X_T</td><td>1 Types</td><td>MDG_BS_MAT_T_NO.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG BS MAT: Material Master Notes Table</td></tr> <tr><td>QNAT_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_QM.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG BS MAT: Material Parameters for Inspection T</td></tr> <tr><td>QNAT_X_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_QM.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG BS MAT: Material Parameters for Inspection D</td></tr> <tr><td>CKMLHD_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_ML.</td><td>String</td><td>0</td><td>0</td><td></td><td>CKMLHD Data</td></tr> <tr><td>CKMLHD_X_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_ML.</td><td>String</td><td>0</td><td>0</td><td></td><td>CKMLHD Changed fields</td></tr> <tr><td>CKMLCR_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_ML.</td><td>String</td><td>0</td><td>0</td><td></td><td>CKMLCR Data</td></tr> <tr><td>CKMLCR_X_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_ML.</td><td>String</td><td>0</td><td>0</td><td></td><td>CKMLCR Changed fields</td></tr> <tr><td>CKMLPR_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_ML.</td><td>String</td><td>0</td><td>0</td><td></td><td>CKMLPR Data</td></tr> <tr><td>CKMLPR_X_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_ML.</td><td>String</td><td>0</td><td>0</td><td></td><td>CKMLPR Changed fields</td></tr> <tr><td>MDMA_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_MD.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG BS MAT: Material Master MRP Area (Data Tab)</td></tr> <tr><td>MDMA_X_TAB</td><td>1 Types</td><td>MDG_BS_MAT_T_MD.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG BS MAT: Material Master MRP Area (Data X Tab)</td></tr> <tr><td>.APPEND</td><td>1 Types</td><td>YMDGM_BS_MAT_DAT.</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG Material API extension</td></tr> <tr><td>YMDGM_BUPA00_TAB</td><td>1 Types</td><td>YMDGM_BUPA01_T</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG Material API Extension</td></tr> <tr><td>YMDGM_BUPA00_X</td><td>1 Types</td><td>YMDGM_BUPA01_T_X</td><td>String</td><td>0</td><td>0</td><td></td><td>MDG Material API extension</td></tr> </tbody> </table>	Component	Typing Method	Component Type	Data Type	Length	Decim...	KoordSystem	Short Description	SALES_NOTES_TAB	1 Types	MDG_BS_MAT_T_NO.	String	0	0		MDG BS MAT: Notes Table for Sales	SALES_NOTES_LIN	1 Types	MDG_BS_MAT_T_NO.	String	0	0		MDG BS MAT: Notes Table for Sales (formatted)	SALES_NOTES_X_T	1 Types	MDG_BS_MAT_T_NO.	String	0	0		MDG BS MAT: Material Master Notes Table	QNAT_TAB	1 Types	MDG_BS_MAT_T_QM.	String	0	0		MDG BS MAT: Material Parameters for Inspection T	QNAT_X_TAB	1 Types	MDG_BS_MAT_T_QM.	String	0	0		MDG BS MAT: Material Parameters for Inspection D	CKMLHD_TAB	1 Types	MDG_BS_MAT_T_ML.	String	0	0		CKMLHD Data	CKMLHD_X_TAB	1 Types	MDG_BS_MAT_T_ML.	String	0	0		CKMLHD Changed fields	CKMLCR_TAB	1 Types	MDG_BS_MAT_T_ML.	String	0	0		CKMLCR Data	CKMLCR_X_TAB	1 Types	MDG_BS_MAT_T_ML.	String	0	0		CKMLCR Changed fields	CKMLPR_TAB	1 Types	MDG_BS_MAT_T_ML.	String	0	0		CKMLPR Data	CKMLPR_X_TAB	1 Types	MDG_BS_MAT_T_ML.	String	0	0		CKMLPR Changed fields	MDMA_TAB	1 Types	MDG_BS_MAT_T_MD.	String	0	0		MDG BS MAT: Material Master MRP Area (Data Tab)	MDMA_X_TAB	1 Types	MDG_BS_MAT_T_MD.	String	0	0		MDG BS MAT: Material Master MRP Area (Data X Tab)	.APPEND	1 Types	YMDGM_BS_MAT_DAT.	String	0	0		MDG Material API extension	YMDGM_BUPA00_TAB	1 Types	YMDGM_BUPA01_T	String	0	0		MDG Material API Extension	YMDGM_BUPA00_X	1 Types	YMDGM_BUPA01_T_X	String	0	0		MDG Material API extension
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<p>6. From MDG 9.0: Repeat step 1-5 for backend structure CMD_BS_MAT_S_MAT_DATA.</p>																																																																																																																																									

4.1.3. BAdI: Extension of the API with Customer-Specific Segments

<p>1. In MDG customizing start the selected entry as shown.</p>	<p>The screenshot shows the SAP Implementation Guide interface. On the left, there is a navigation tree under the 'Master Data Governance' section. The 'Business Add-Ins' section is expanded, and the 'BAdI: Extension of the API with Customer-Specific Segments' entry is visible at the bottom of the list, highlighted with a red oval. A red arrow points from the text in the previous step to this highlighted entry.</p>
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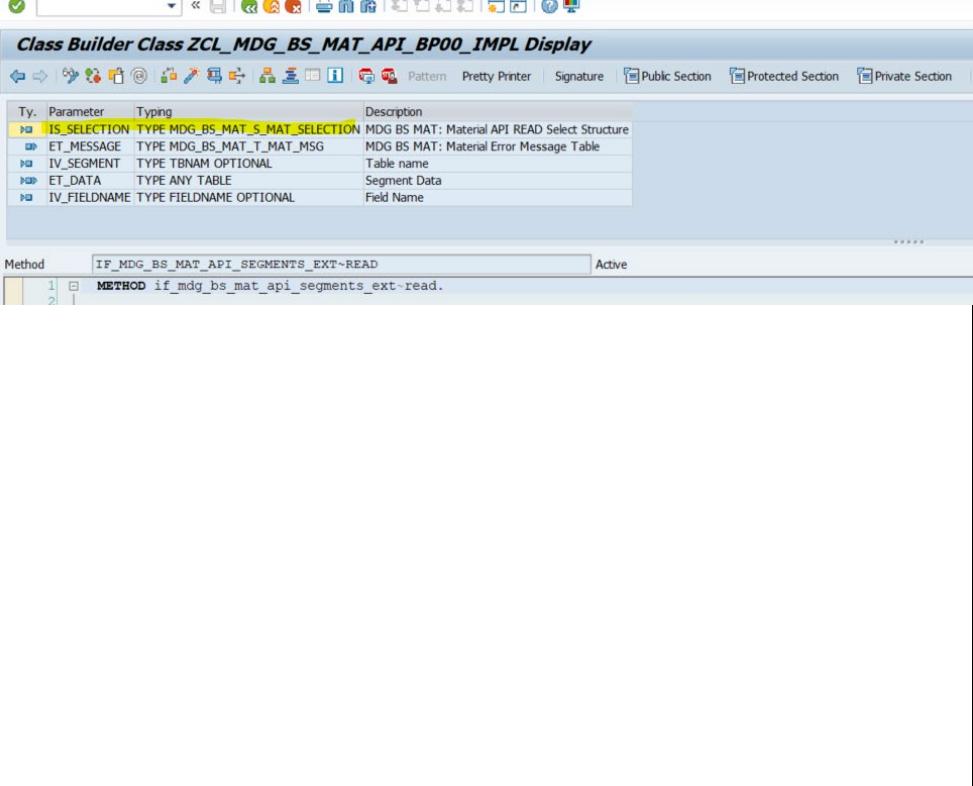
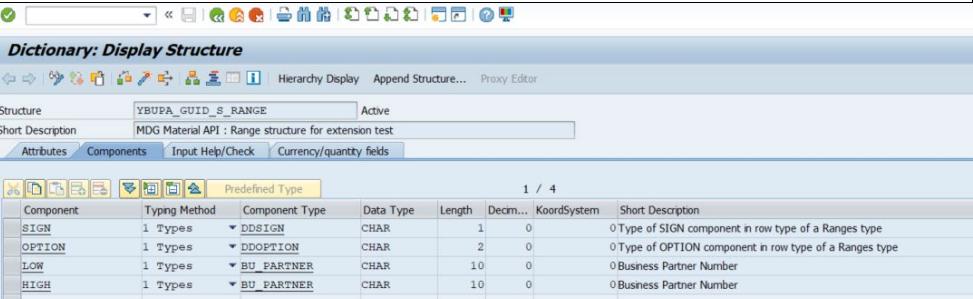
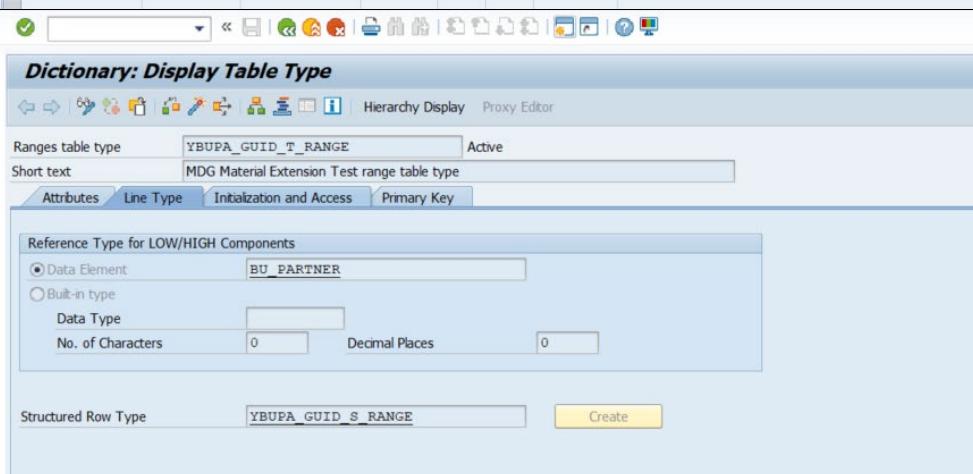
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2.	<p>Create a new BAdI implementation for MDG_BS_MAT_API_SEGMENTS_EXT</p>	<table border="1"> <thead> <tr> <th colspan="4">Implementations for BAdI Definition MDG_BS_MAT_API_SEGMENTS_EXT</th> </tr> <tr> <th>Active(IMG)</th> <th>Active(Im...)</th> <th>Enhancement Implementation</th> <th>BAdI Implementation</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>ZMDG_BS_MAT_API_SEG_EXT_V</td> <td>ZMDG_BS_MAT_API_SEG_EXT_V</td> <td>Implementation: BAdI: Extension of</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>ZMDGM_BUPAXX</td> <td>ZMDG_BS_MAT_API_SEGMENTS_EXT</td> <td>Test</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>ZMDG_BS_MAT_API_SEG_EXT</td> <td>ZMDG_BS_MAT_API_SEG_EXT_IMPL</td> <td>BAdI Implementation for MDG MAT Ext</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td>ZMDGM_BUPA12_API_SEGMENT_EXIT</td> <td>ZMDG_BS_MAT_API_SEGMENTS_EXT</td> <td>Implementation: BAdI: Extension of</td> </tr> </tbody> </table>	Implementations for BAdI Definition MDG_BS_MAT_API_SEGMENTS_EXT				Active(IMG)	Active(Im...)	Enhancement Implementation	BAdI Implementation	Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZMDG_BS_MAT_API_SEG_EXT_V	ZMDG_BS_MAT_API_SEG_EXT_V	Implementation: BAdI: Extension of	<input type="checkbox"/>	<input type="checkbox"/>	ZMDGM_BUPAXX	ZMDG_BS_MAT_API_SEGMENTS_EXT	Test	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZMDG_BS_MAT_API_SEG_EXT	ZMDG_BS_MAT_API_SEG_EXT_IMPL	BAdI Implementation for MDG MAT Ext	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ZMDGM_BUPA12_API_SEGMENT_EXIT	ZMDG_BS_MAT_API_SEGMENTS_EXT	Implementation: BAdI: Extension of
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3.	<p>Enter the name of the <i>Enhancement Implementation</i> as shown.</p>	<p>Display IMG</p> <p>QKZ(1)/910 Create Enhancement Implementation</p> <table border="1"> <tr> <td>Enhancement Implementation</td> <td>ZMDG_BS_MAT_API_BP00_EXT</td> </tr> <tr> <td>Short Text</td> <td>Extensibility for Material</td> </tr> <tr> <td>Composite Enhancement Implementation</td> <td></td> </tr> </table>	Enhancement Implementation	ZMDG_BS_MAT_API_BP00_EXT	Short Text	Extensibility for Material	Composite Enhancement Implementation																								
Enhancement Implementation	ZMDG_BS_MAT_API_BP00_EXT																														
Short Text	Extensibility for Material																														
Composite Enhancement Implementation																															
4.	<p>Enter further details for the BAdI as shown in the screenshot. Remark: The screen shot shows ZMDG_BS_MAT_API_BP01_IMPL and ZCL_MDG_BS_MAT_API_BP01_IMPL. Please use ZMDG_BS_MAT_API_BP00_IMPL and ZCL_MDG_BS_MAT_API_BP0_IMPL instead to be in sync with the following screen shots.</p>	<p>Create BAdI Implementations for Existing BAdI Definitions</p> <table border="1"> <thead> <tr> <th>BAdI Implementation</th> <th>Implementation Class</th> <th>BAdI Definition</th> <th>Short T</th> </tr> </thead> <tbody> <tr> <td>ZMDG_BS_MAT_API_BP01_IMPL</td> <td>ZCL_MDG_BS_MAT_API_BP01_IMPL</td> <td>MDG_BS_MAT_API_SEGMENTS_EXT</td> <td>BAdI: E</td> </tr> </tbody> </table>	BAdI Implementation	Implementation Class	BAdI Definition	Short T	ZMDG_BS_MAT_API_BP01_IMPL	ZCL_MDG_BS_MAT_API_BP01_IMPL	MDG_BS_MAT_API_SEGMENTS_EXT	BAdI: E																					
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5.	<p>Check your <i>Enhancement Implementation</i> details look similar to the screenshot.</p>																														

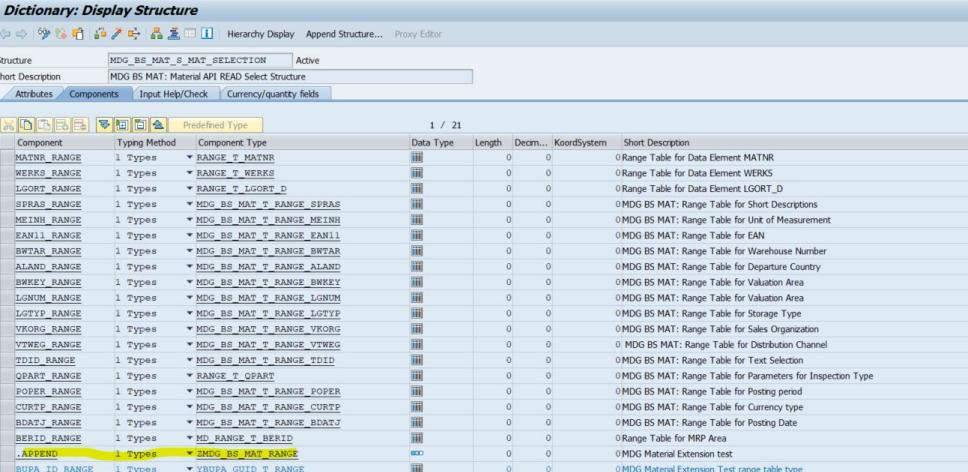
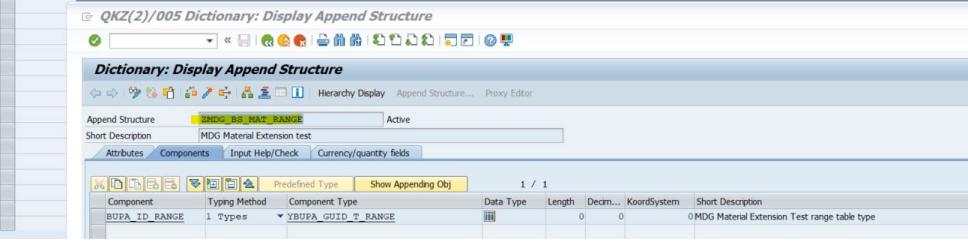
6.	<p>Create a new filter entry.</p>
7.	<p>Enter the filter value YMDGM_BUPA01_S</p>

4.1.3.1 Creating a Selection-Range Table

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<p>1.</p> <p>The IS_SELECTION parameter contains the material selection criteria for which the database select must be executed. The selection criteria always contain the MATNR and possibly additional key fields of the customer-specific database table.</p> <p>In case you have key fields in your customer-specific table you must append MDG_BS_MAT_S_MAT_SELECTION by your key-fields.</p> <p>This is shown in the next step.</p>	
<p>2.</p> <p>Start transaction SE11. Create the structure YBUPA_GUID_S_RANGE that looks like shown in the screen shot.</p>	
<p>3.</p> <p>Start transaction SE11. Create the range table type that looks like shown in the screen shot.</p>	

How-To: Extend MDG-M by a New Reuse Entity Type

<p>4. Start transaction SE11.</p> <p>Open structure MDG_BS_MAT_S_MAT_SELECTION. Create an append called ZMDG_BS_MAT_RANG E which has a component called BUPA_ID_RANGE of component type YBUPDA_GUID_T_RA NGE. The APPEND structure is shown and the structure MDG_BS_S_MAT_SEL ECTION</p>	  <p>It is vital that the component name of the append adheres to the naming standard <KEY-FIELDNAME OF BACKEND TABLE>_RANGE. In our case the backend table is YMDGM_BUPA00 and the key-fieldname is BUPA_ID therefore the component name is BUPA_ID RANGE.</p>
--	--

4.1.4. BAdI Implementation: READ Method

```

METHOD if_mdg_bs_mat_api_segments_ext~read.
  DATA: lt_mdgm_bupa TYPE ymdgm_bupa01_t.
  CLEAR: et_data, et_message.
  SELECT * FROM ymdgm_bupa00 INTO CORRESPONDING FIELDS OF TABLE
    lt_mdgm_bupa WHERE matnr IN is_selection-matnr_range
      AND bupa_id IN is_selection-bupa_id_range.
  INSERT LINES OF lt_mdgm_bupa INTO TABLE et_data.
ENDMETHOD.

```

4.1.5. BAdI Implementation: CHECK_AND_SAVE Method

```

METHOD if_mdg_bs_mat_api_segments_ext~check_and_save.

DATA: ls_data      TYPE ymdgm_bupa01_s.
DATA: ls_data_x    TYPE ymdgm_bupa01_s_x.
DATA: ls_message   TYPE mdg_bs_mat_s_mat_msg.
DATA: lt_modify    TYPE STANDARD TABLE OF ymdgm_bupa00.
DATA: ls_modify    TYPE ymdgm_bupa00.
DATA: lt_delete    TYPE STANDARD TABLE OF ymdgm_bupa00.
DATA: ls_delete    TYPE ymdgm_bupa00.

CLEAR et_message.

■ First some checks
LOOP AT is_data-ymdgm_bupa00_tab INTO ls_data.
  " All fields must be filled, otherwise MESSAGE e000(00) WITH ls_data-
  matnr ls_data-bupa_id ls_data-nickname.
  IF ls_data-matnr IS INITIAL OR ls_data-bupa_id IS INITIAL OR ls_data-
  nickname IS INITIAL.
    ls_message-msgid = '00'.
    ls_message-msgno =
    '000'. ls_message-msgty
    = 'E'.
    ls_message-msgv1 = 'Empty value detected in:
    '. ls_message-msgv2 = ls_data-matnr.
    ls_message-msgv3 = ls_data-bupa_id.
    ls_message-msgv4 = ls_data-nickname.
    INSERT ls_message INTO TABLE
    et_message.
  ENDIF.
  " BuPa must
  exist
  " ...
ENDLOOP.

■ In test mode, we're finished now
CHECK iv_test_mode =
abap_false.

■ Determine which records to delete or to insert/update
LOOP AT is_data-ymdgm_bupa00_x_tab INTO ls_data_x.
  IF ls_data_x-delete_row = abap_true. " Keep key fields for deletion
    ls_delete-matnr = ls_data_x-matnr.
    ls_delete-bupa_id = ls_data_x-
    bupa_id. INSERT ls_delete INTO TABLE
    lt_delete.
  ELSE.
    READ TABLE is_data-ymdgm_bupa00_tab INTO
      ls_data WITH TABLE KEY matnr = ls_data_x-
      matnr
      bupa_id = ls_data_x-
      bupa_id.
    ASSERT sy-subrc = 0. " No_x record without data record
    MOVE-CORRESPONDING ls_data TO
    ls_modify. INSERT ls_modify INTO TABLE
    lt_modify.
  ENDIF.

  .
ENDLOOP.

■ Now change the DB
■ Note: In a productive implementation, these DB changes must be done ON
  COMMIT (PERFORM xxx ON COMMIT or CALL FUNCTION xxx IN UPDATE TASK)
■ * Note: We are basically ignoring the _X structure here - if data gets
  changed, all fields get updated
  IF NOT lt_delete IS INITIAL.
    DELETE ymdgm_bupa00 FROM TABLE lt_delete.
  ENDIF.
  IF NOT lt_modify IS INITIAL.
    MODIFY ymdgm_bupa00 FROM TABLE lt_modify.
  ENDIF.

```

4.1.6. BAdI Implementation: GET_ES_NODEINFO Method

Implement GET_ES_NODEINFO method if you have extended the enterprise search model MATERIAL. See also extensibility guides for the Search:
<https://community.sap.com/topics/master-data-governance/how-to#central-governance-of-material-data>.

With this method you get the node name in the Enterprise Search template for the given customer-defined database table with parameters ET_ES_NODENAME.

4.2. MDG Data Model Extension

In this section you will extend the MDG data model with the entity type YBUPA01. The entity type has one attribute NICKNAME and one qualifying relationship to entity type YBUPA. YBUPA01 will have two key fields MATERIAL and YBUPA. For details of the data model extension refer to the figure below.

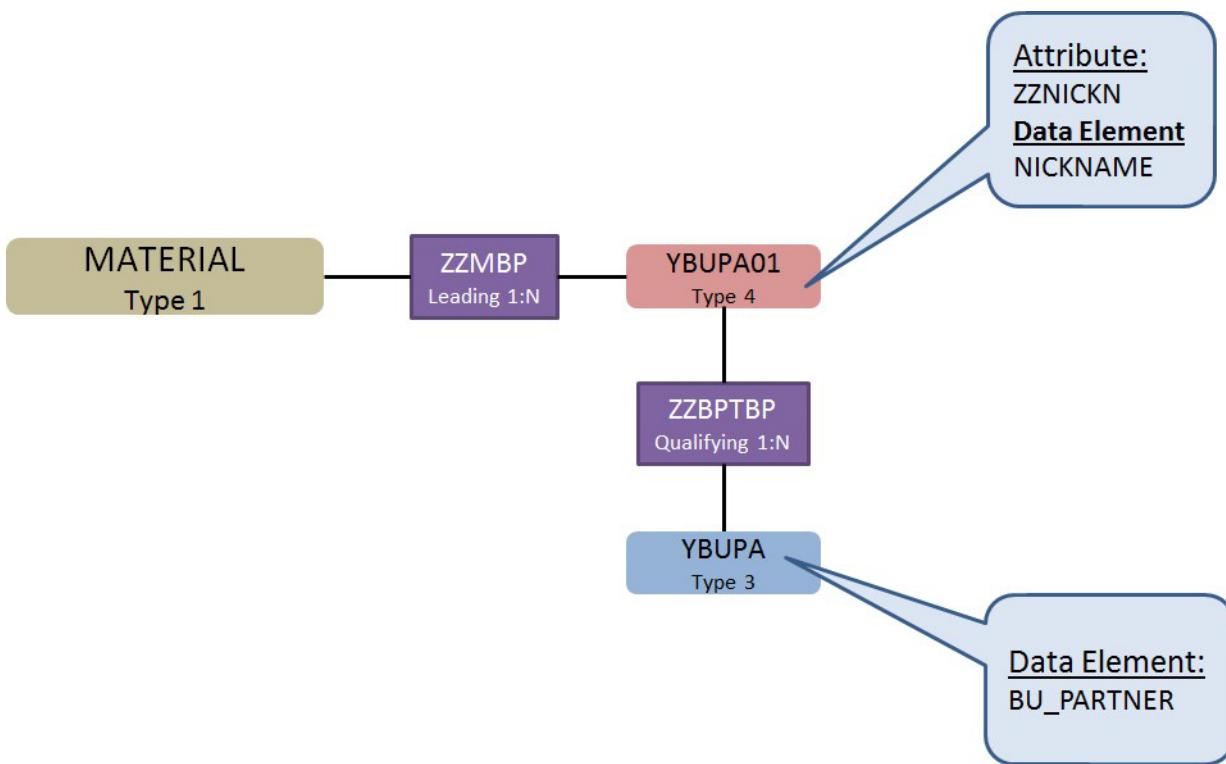
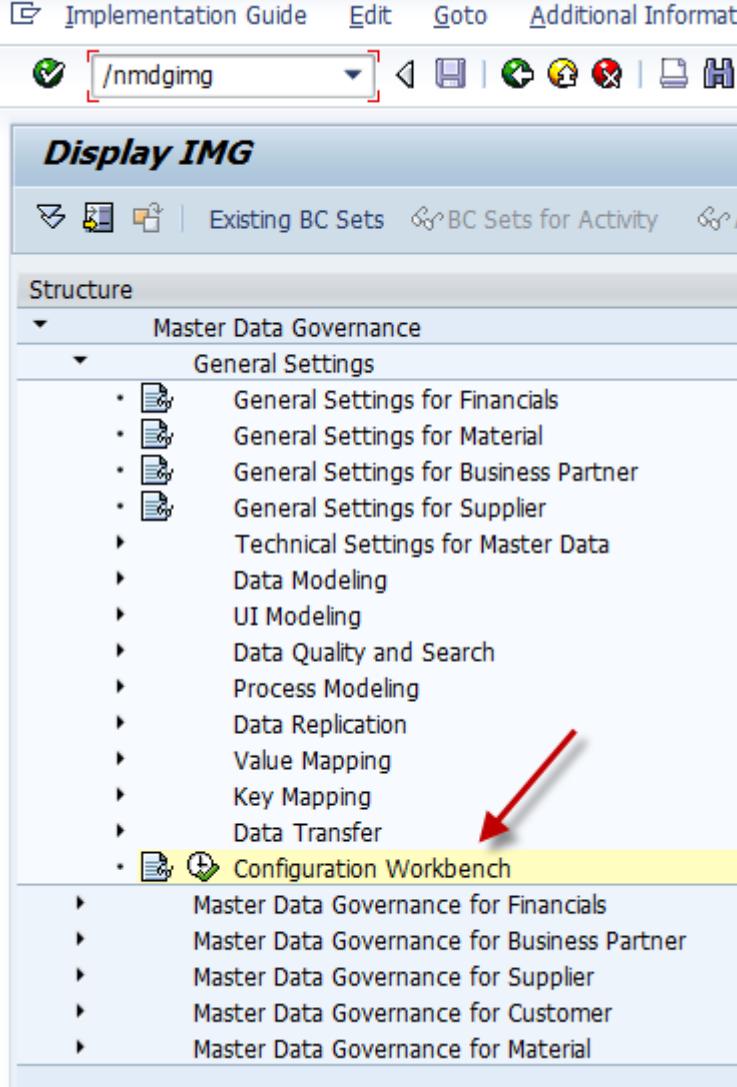
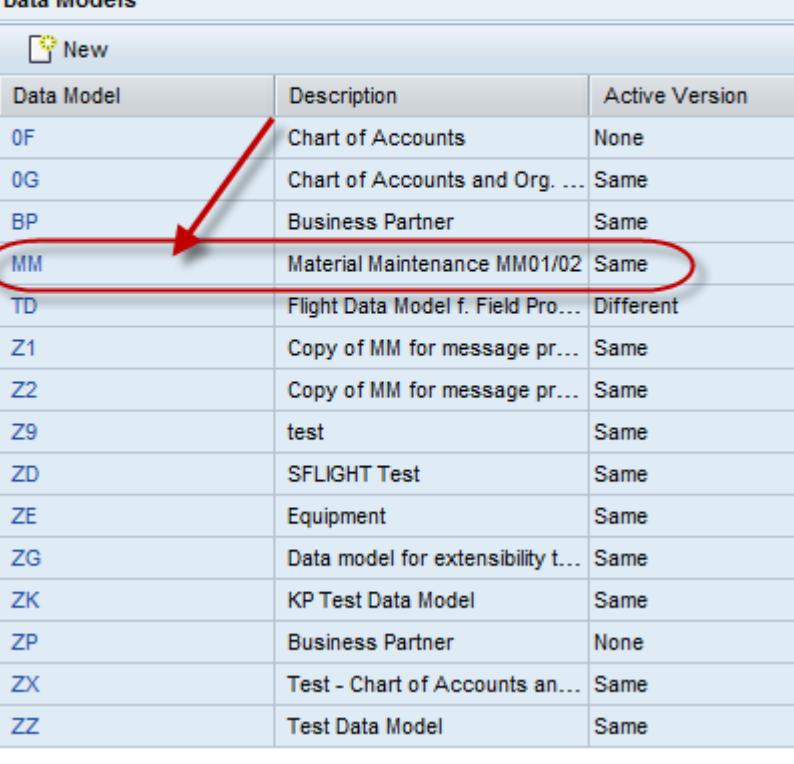
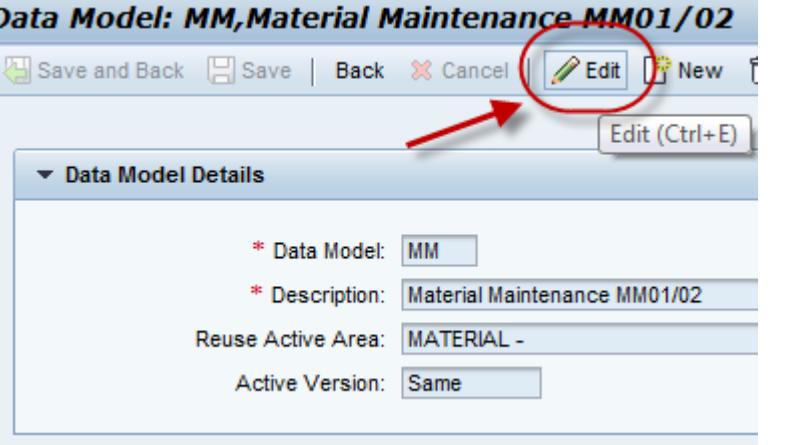


Figure: Data Model details for extension

4.2.1. Extend MDG Data Model

1. Start the MDG customizing with transaction MDGIMG and start the <i>Configuration Workbench</i> as shown.	 <p>The screenshot shows the SAP Display IMG interface. The URL in the address bar is /nmdgimg. The main area displays the 'Structure' of the Master Data Governance module. Under 'General Settings', there is a list of items including 'General Settings for Financials', 'General Settings for Material', 'General Settings for Business Partner', 'General Settings for Supplier', 'Technical Settings for Master Data', 'Data Modeling', 'UI Modeling', 'Data Quality and Search', 'Process Modeling', 'Data Replication', 'Value Mapping', 'Key Mapping', 'Data Transfer', and 'Configuration Workbench'. A red arrow points to the 'Configuration Workbench' node, which is highlighted with a yellow background. Below this list, there is another section with items like 'Master Data Governance for Financials', 'Master Data Governance for Business Partner', etc.</p>
---	---

2.	<p>In the Configuration Workbench open the MM Data Model.</p>	<p>Configuration Workbench</p>  <table border="1"> <thead> <tr> <th>Data Model</th> <th>Description</th> <th>Active Version</th> </tr> </thead> <tbody> <tr> <td>OF</td> <td>Chart of Accounts</td> <td>None</td> </tr> <tr> <td>OG</td> <td>Chart of Accounts and Org. ...</td> <td>Same</td> </tr> <tr> <td>BP</td> <td>Business Partner</td> <td>Same</td> </tr> <tr style="outline: 2px solid red;"> <td>MM</td> <td>Material Maintenance MM01/02</td> <td>Same</td> </tr> <tr> <td>TD</td> <td>Flight Data Model f. Field Pro...</td> <td>Different</td> </tr> <tr> <td>Z1</td> <td>Copy of MM for message pr...</td> <td>Same</td> </tr> <tr> <td>Z2</td> <td>Copy of MM for message pr...</td> <td>Same</td> </tr> <tr> <td>Z9</td> <td>test</td> <td>Same</td> </tr> <tr> <td>ZD</td> <td>SFLIGHT Test</td> <td>Same</td> </tr> <tr> <td>ZE</td> <td>Equipment</td> <td>Same</td> </tr> <tr> <td>ZG</td> <td>Data model for extensibility t...</td> <td>Same</td> </tr> <tr> <td>ZK</td> <td>KP Test Data Model</td> <td>Same</td> </tr> <tr> <td>ZP</td> <td>Business Partner</td> <td>None</td> </tr> <tr> <td>ZX</td> <td>Test - Chart of Accounts an...</td> <td>Same</td> </tr> <tr> <td>ZZ</td> <td>Test Data Model</td> <td>Same</td> </tr> </tbody> </table>	Data Model	Description	Active Version	OF	Chart of Accounts	None	OG	Chart of Accounts and Org. ...	Same	BP	Business Partner	Same	MM	Material Maintenance MM01/02	Same	TD	Flight Data Model f. Field Pro...	Different	Z1	Copy of MM for message pr...	Same	Z2	Copy of MM for message pr...	Same	Z9	test	Same	ZD	SFLIGHT Test	Same	ZE	Equipment	Same	ZG	Data model for extensibility t...	Same	ZK	KP Test Data Model	Same	ZP	Business Partner	None	ZX	Test - Chart of Accounts an...	Same	ZZ	Test Data Model	Same
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ZZ	Test Data Model	Same																																																
3.	<p>Choose the <i>Edit</i> pushbutton.</p>	<p>Data Model: MM, Material Maintenance MM01/02</p>  <p>Data Model Details</p> <table> <tr> <td>* Data Model:</td> <td>MM</td> </tr> <tr> <td>* Description:</td> <td>Material Maintenance MM01/02</td> </tr> <tr> <td>Reuse Active Area:</td> <td>MATERIAL -</td> </tr> <tr> <td>Active Version:</td> <td>Same</td> </tr> </table>	* Data Model:	MM	* Description:	Material Maintenance MM01/02	Reuse Active Area:	MATERIAL -	Active Version:	Same																																								
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Reuse Active Area:	MATERIAL -																																																	
Active Version:	Same																																																	

4. To create a new entity type, choose the *New* pushbutton.

Data Model: MM,Material Mainte

Save and Back
 Save
 Back
 Ca

▼ Data Model Details

* Data Model: MM
 * Description: Material
 Reuse Active Area: MATERI
 Active Version: Same

▼ Entity types

New

 Detail

Ent	New	SU Type	Detail
G			

5. Create the new *Entity* **Type YBUPA01 (SU Type 4)** with the details shown in the screenshot.

Data Model: MM, Material Maintenance MM01/02

Save and Back Save Back Cancel Edit New Delete Check Activate Reuse Areas Adjust Change Requests

Data Model Details

* Data Model: MM
 * Description: Material Maintenance MM01/02
 Changed On: 27.04.2012
 Reuse Active Area: MATERIAL -
 Changed At: 14:18:37
 User Name: RUETERL
 Active Version: Same

Entity Types

New	Entity Type	SU Type
	BSCDATATTX	4
	CHANGENO	3
	CHARID	3
	CLASS	3
	CLASSASGN	4
	CLASSTYPE	3
	EAN	3
	ECOCNTR	3
	GUID	3
	INTCMNT	4
	LANGUCODE	3
	MATERIAL	1
	MEAN_GTIN	4
	QTEUNIT	3
	UNITOFMSR	4
	VALCNT	3
	VALUATION	4
	YMARC	4
	YMARC1	4
	YMARC2	4
	YMARC3	4
	YMARC4	4

General **Attributes** **Incoming Relationships** **Outgoing Relationships**

General Data

* Entity T... YBUPA01
 Description:
 * SU Type: 4 - Changeable via Oth
 Data Ele...
 Validity of... No Edition
 Deletion: Deletion Allowed
 Attachme...
 Sets:
 Search H...
 Generated:

Key Assignment

Type of Key Ass... Key Cannot Be Chang
 Number Range O...
 Entity Texts

Language-Depen...
 Long Text: Length: 00
 Medium Text: Le... 00
 Short Text: Leng... 00

Hierarchies

Hierarchie... No Hierarchy
 Validity of... Hierarchy is Not Editor

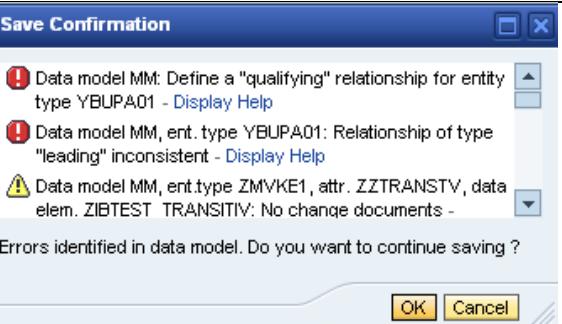
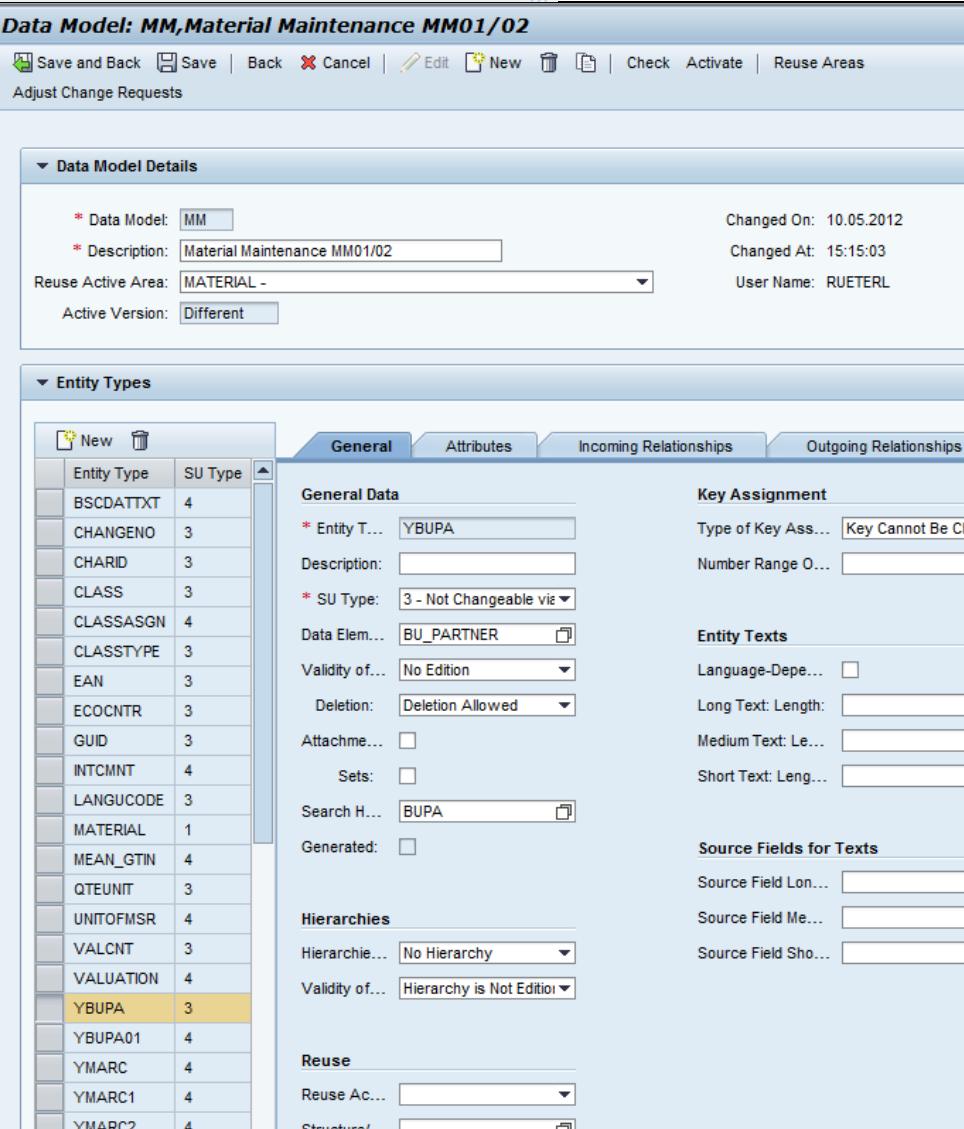
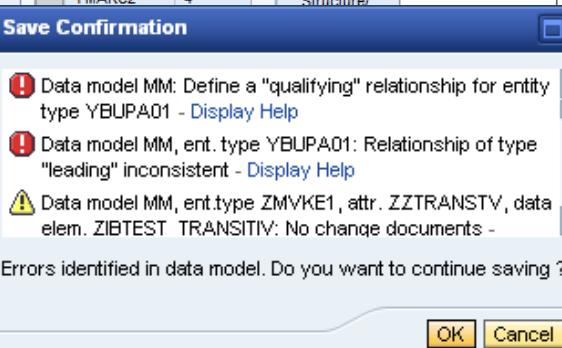
Reuse

Reuse Ac...
 Structure/...

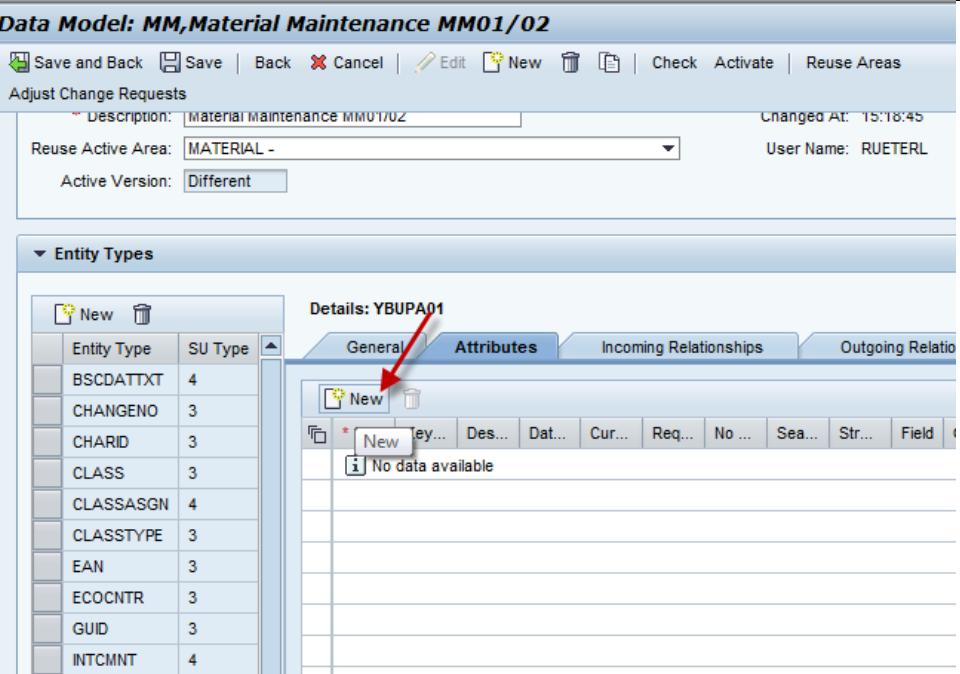
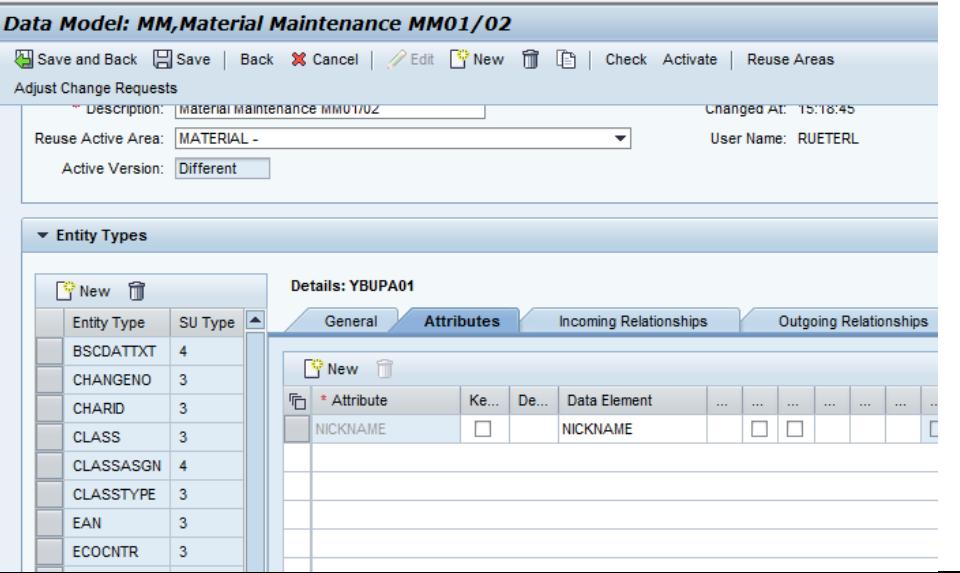
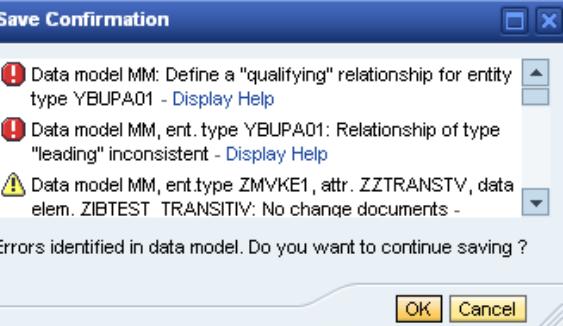
Source Fields for Texts

Source Field Lon...
 Source Field Me...
 Source Field Sho...

How-To: Extend MDG-M by a New Reuse Entity Type

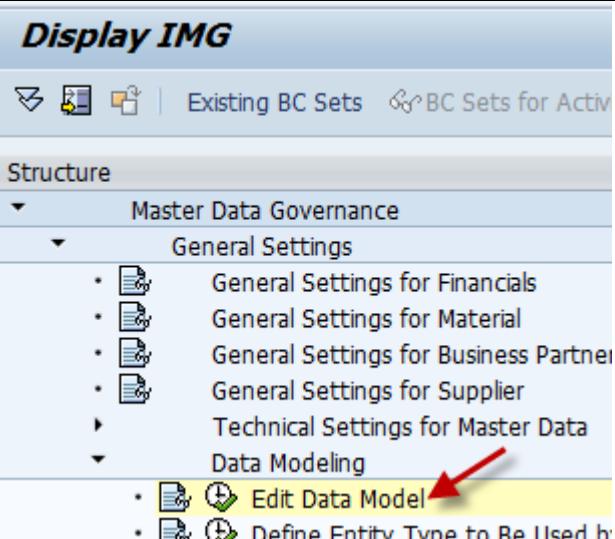
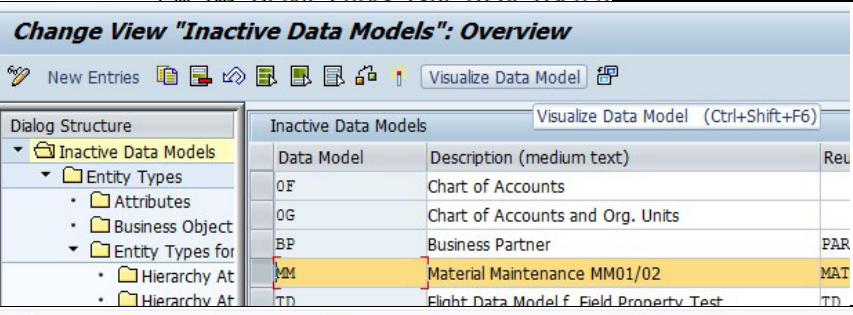
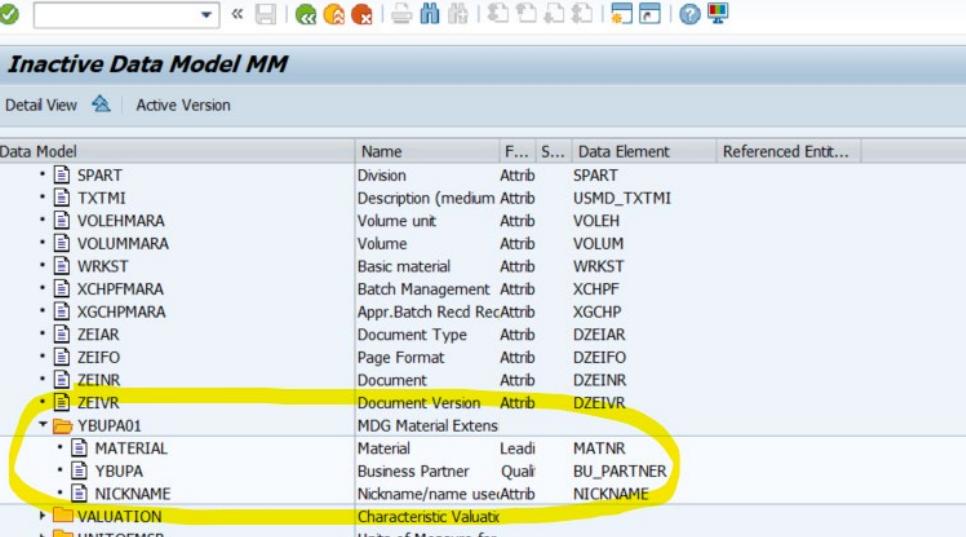
6.	<p>Choose Save.</p> <p>Choose OK in the confirmation dialog.</p> 
7.	<p>Create the new <i>Entity Type</i> YBUPA (SU Type 3) with the details shown in the screenshot.</p>  <p>The screenshot shows the 'Data Model: MM, Material Maintenance MM01/02' interface. In the 'Entity Types' section, the 'General' tab is selected. A table lists various entity types, and 'YBUPA' is highlighted in yellow. The 'Attributes' tab is visible above the table. To the right of the table, detailed configuration options are shown for 'YBUPA', including fields for General Data, Key Assignment, Entity Texts, Source Fields for Texts, Hierarchies, and Reuse.</p>
8.	<p>Choose Save.</p> <p>Choose OK in the confirmation dialog.</p> 

How-To: Extend MDG-M by a New Reuse Entity Type

9.	<p>Go back to entity type YBUPA01. Switch the Attributes tab. Choose the <i>New</i> pushbutton.</p> 
10.	<p>Create the new attribute NICKNAME as shown.</p> 
11.	<p>Choose Save. Choose OK in the confirmation dialog.</p> 

How-To: Extend MDG-M by a New Reuse Entity Type

12. For entity type YBUPA01 open the <i>Incoming Relationships</i> tab. Choose the <i>New</i> pushbutton.	<p>Data Model: MM, Material Maintenance MM01/02</p> <p>Save and Back Save Back Cancel Edit New Delete Copy Check Activate Refresh</p> <p>Reuse Active Area: MATERIAL -</p> <p>Active Version: Different</p> <p>Entity Types</p> <table border="1"> <thead> <tr> <th>Entity Type</th> <th>SU Type</th> </tr> </thead> <tbody> <tr><td>YBUPA</td><td>3</td></tr> <tr><td>YBUPA01</td><td>4</td></tr> <tr><td>YMARC</td><td>4</td></tr> <tr><td>YMARC1</td><td>4</td></tr> <tr><td>YMARC2</td><td>4</td></tr> <tr><td>YMARC3</td><td>4</td></tr> <tr><td>YMARC4</td><td>4</td></tr> <tr><td>YMARC6</td><td>4</td></tr> <tr><td>YT001W</td><td>3</td></tr> <tr><td>YT024D</td><td>3</td></tr> <tr><td>YT438A</td><td>3</td></tr> <tr><td>YWERK</td><td>3</td></tr> </tbody> </table> <p>Details: YBUPA01</p> <p>General Attributes Incoming Relationships Outgoing Relationships Business Object Types Help</p> <p>New Foreign Keys</p> <table border="1"> <thead> <tr> <th>Relationship</th> <th>From-Entity Type</th> <th>Relationship Type</th> <th>Cardinality</th> <th>Direction</th> </tr> </thead> <tbody> <tr><td>ZZMBP</td><td>MATERIAL</td><td>Leading</td><td>1 : N</td><td>→</td></tr> <tr><td>ZZBPTBP</td><td>YBUPA</td><td>Qualifying</td><td>1 : N</td><td>←</td></tr> </tbody> </table>	Entity Type	SU Type	YBUPA	3	YBUPA01	4	YMARC	4	YMARC1	4	YMARC2	4	YMARC3	4	YMARC4	4	YMARC6	4	YT001W	3	YT024D	3	YT438A	3	YWERK	3	Relationship	From-Entity Type	Relationship Type	Cardinality	Direction	ZZMBP	MATERIAL	Leading	1 : N	→	ZZBPTBP	YBUPA	Qualifying	1 : N	←
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13. Create the two relationships as shown.	<p>Details: YBUPA01</p> <p>General Attributes Incoming Relationships Outgoing Relationships Business Object Types Help</p> <p>New Foreign Keys</p> <table border="1"> <thead> <tr> <th>Relationship</th> <th>From-Entity Type</th> <th>Relationship Type</th> <th>Cardinality</th> <th>Direction</th> </tr> </thead> <tbody> <tr><td>ZZMBP</td><td>MATERIAL</td><td>Leading</td><td>1 : N</td><td>→</td></tr> <tr><td>ZZBPTBP</td><td>YBUPA</td><td>Qualifying</td><td>1 : N</td><td>←</td></tr> </tbody> </table>	Relationship	From-Entity Type	Relationship Type	Cardinality	Direction	ZZMBP	MATERIAL	Leading	1 : N	→	ZZBPTBP	YBUPA	Qualifying	1 : N	←																										
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ZZBPTBP	YBUPA	Qualifying	1 : N	←																																						
14. Choose the <i>Activate</i> pushbutton to activate your data model.	<p>Data Model: MM, Material Maintenance MM01/02</p> <p>Save and Back Save Back Cancel Edit New Delete Copy Check Activate Refresh</p> <p>Reuse Areas Adjust Change Requests</p> <p>Data Model: MM Description: Material Maintenance MM01/02 Reuse Active Area: MATERIAL - Active Version: Different</p> <p>Changed On: 10.05.2011 Changed At: 15:41:51 User Name: RUETERL</p> <p>Entity Types</p>																																									

15.	<p>To check the activated data model, open the <i>Edit Data Model</i> Customizing activity as shown.</p> 
16.	<p>Choose the <i>Visualize Data Model</i> pushbutton.</p> 
17.	<p>Make sure that your extension of the MDG data model looks similar to the details shown in the screenshot.</p> 

4.2.2. Generate Model-Specific Structures

Every time you change the MDG data model, you must regenerate the structures. In this Customizing activity, for each data model and entity type you generate technical structures 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 must regenerate the structures.

How-To: Extend MDG-M by a New Reuse Entity Type

1.	<p>In MDG customizing start <i>Generate Data Model-Specific Structures</i>.</p>	
2.	<p>Select Data Model MM. Open the <i>Structures</i> view.</p>	
3.	<p>Create the four entries in the structures table for entity type YBUPA01.</p>	
4.	<p>Save your changes.</p>	

4.2.3. Clear UI Metadata Buffers

After finishing the UI, clear the metadata buffers. You can find the report in Customizing *Master Data Governance, Central Governance-> Master Data Governance for Material-> Clear UI Metadata Buffers*.

This report clears the following buffers in this sequence:

- Text Buffer
- Search Help Buffer
- SMT-Mapping Data Buffer
- SPI Metadata Buffer

You should use this report after extending the data model to make sure that the metadata is consistent with the MDG customizing and UI configuration.

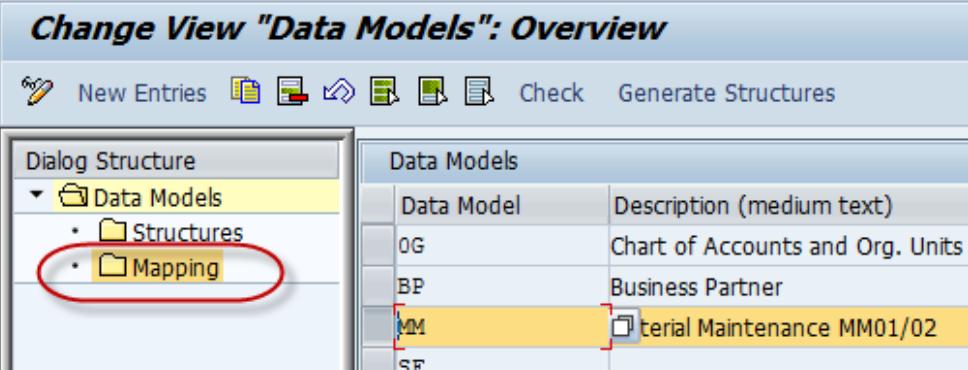
4.3. Create SMT-Mapping

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 corresponding coding is generated. Make sure that all relevant structures are ready before you start.

4.3.1. Create Mapping Entries in Customizing

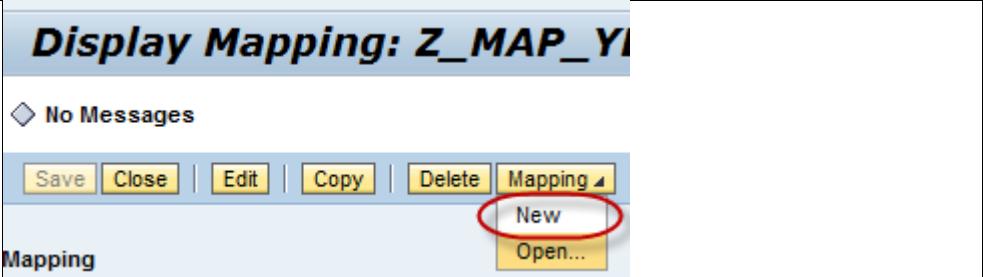
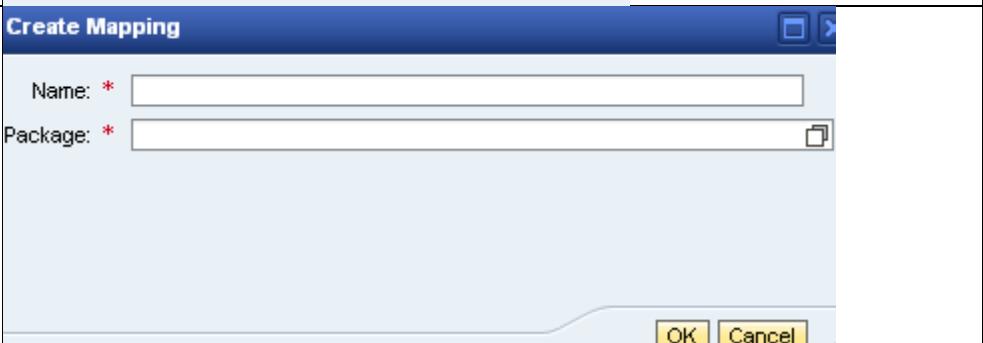
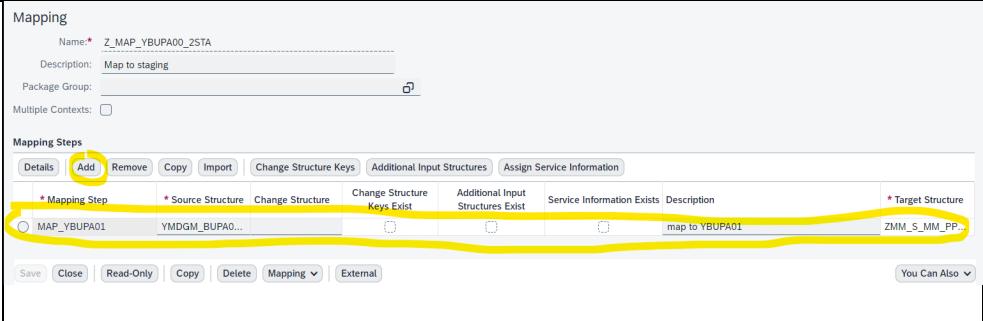
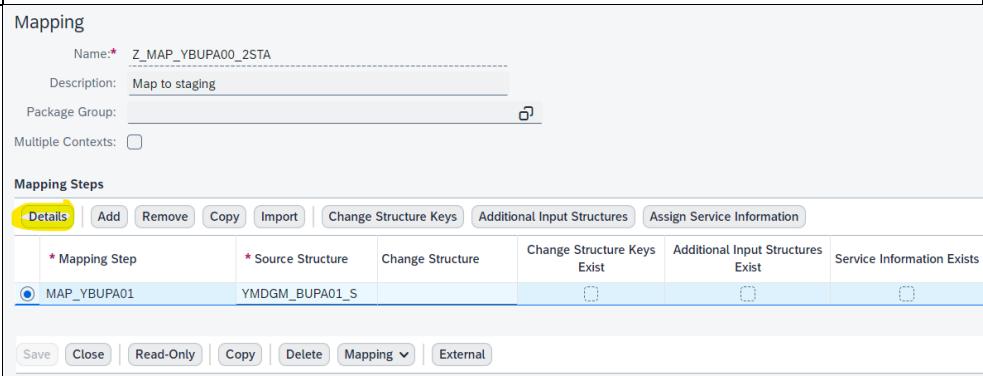
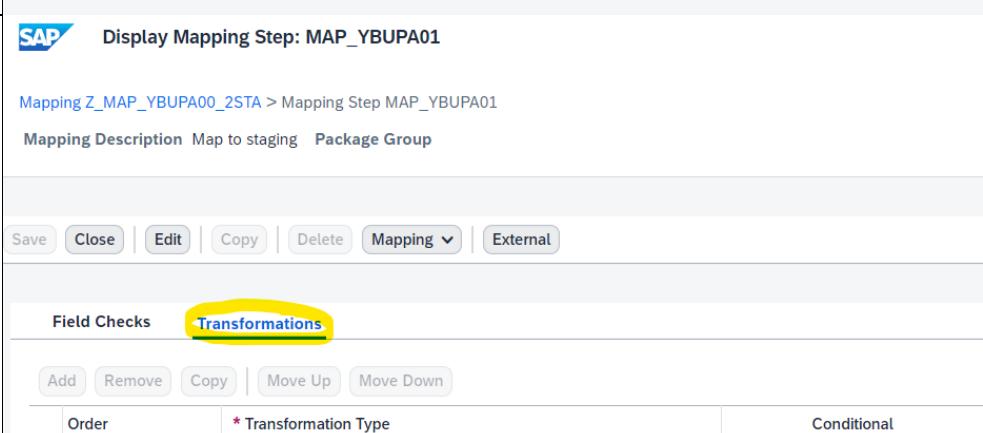
1.	In MDG customizing start <i>Generate Data Model-Specific Structures</i> .											
2.	Select the MM data model. Open the <i>Mapping</i> view.	 <table border="1" data-bbox="865 1471 1484 1695"><thead><tr><th>Data Model</th><th>Description (medium text)</th></tr></thead><tbody><tr><td>OG</td><td>Chart of Accounts and Org. Units</td></tr><tr><td>BP</td><td>Business Partner</td></tr><tr><td>MM</td><td>Material Maintenance MM01/02</td></tr><tr><td>SF</td><td></td></tr></tbody></table>	Data Model	Description (medium text)	OG	Chart of Accounts and Org. Units	BP	Business Partner	MM	Material Maintenance MM01/02	SF	
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MM	Material Maintenance MM01/02											
SF												

<p>3. Create a new entry for entity type YBUPA01 / Active Area Mapping.</p> <p>Mapping from the active area to the staging area: Z_MAP_YBUPA00_2 STA.</p> <p>Mapping from the staging area to the active area: Z_MAP_YBUPA00_2 PP</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">Mapping</th> </tr> <tr> <th>Entity Type</th> <th>Where Used</th> <th>SMT Mapping from Active Area</th> <th>SMT Mapping to Active Area</th> </tr> </thead> <tbody> <tr> <td>VALUATION</td> <td>3 Mapping of Reuse Active A...</td> <td>MDG_BS_MAT_MAP_2STA</td> <td>MDG_BS_MAT_MAP_2PP</td> </tr> <tr> <td>VALUATION</td> <td>6 Field Control for Attribu...</td> <td>MDG_BS_MAT_MAP_2FC</td> <td></td> </tr> <tr> <td>YBUPA01</td> <td>3 Mapping of Reuse Active A...</td> <td>Z_MAP_YBUPA00_2STA</td> <td>Z_MAP_YBUPA00_2PP</td> </tr> </tbody> </table>	Mapping				Entity Type	Where Used	SMT Mapping from Active Area	SMT Mapping to Active Area	VALUATION	3 Mapping of Reuse Active A...	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP	VALUATION	6 Field Control for Attribu...	MDG_BS_MAT_MAP_2FC		YBUPA01	3 Mapping of Reuse Active A...	Z_MAP_YBUPA00_2STA	Z_MAP_YBUPA00_2PP
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YBUPA01	3 Mapping of Reuse Active A...	Z_MAP_YBUPA00_2STA	Z_MAP_YBUPA00_2PP																		

4.3.2. Map the Active Area to the Staging Area

<p>4. In MDG customizing start <i>Create and Edit Mappings</i>.</p>	<p>The screenshot shows the 'Display IMG' dialog with the 'Structure' tree expanded. Under 'Master Data Governance' > 'General Settings', several options are listed. Under 'Data Modeling', there is a section titled 'Create and Edit Mappings' which contains three items: 'Define Package Groups', 'Create and Edit Mappings', and 'Check Customizing'. The 'Create and Edit Mappings' item is circled with a red oval.</p>
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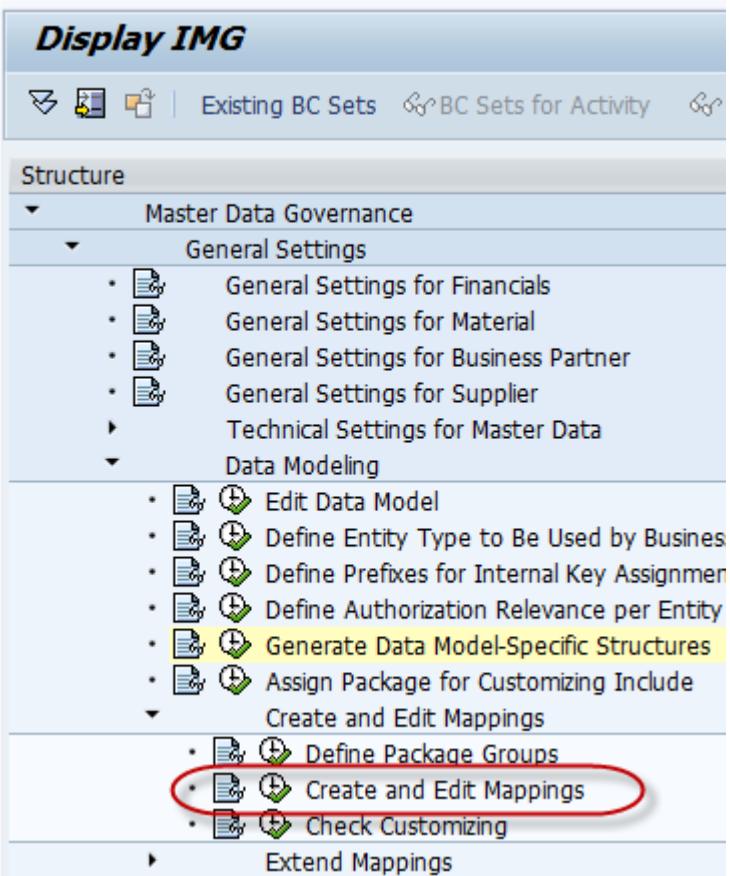
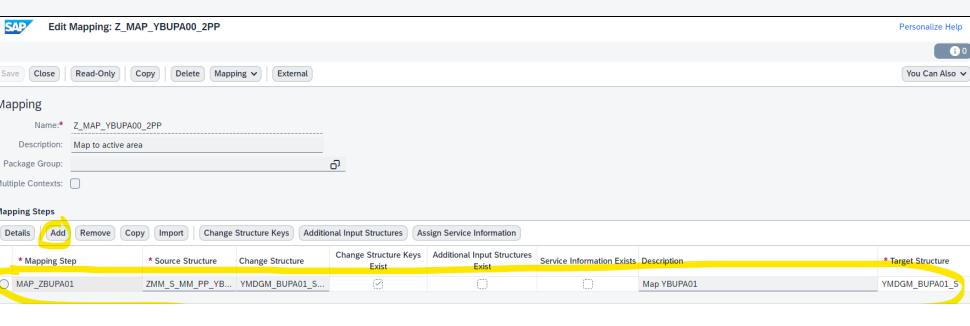
How-To: Extend MDG-M by a New Reuse Entity Type

5. Select Mapping -> New.	 <p>Display Mapping: Z_MAP_YBUPA00_2STA</p> <p>No Messages</p> <p>Save Close Edit Copy Delete Mapping ▾</p> <p>New Open...</p>																
6. Enter the name of the mapping: Z_MAP_YBUPA00_2STA	 <p>Create Mapping</p> <p>Name: * <input type="text"/></p> <p>Package: * <input type="text"/></p> <p>OK Cancel</p>																
7. Create a new mapping step MAP_YBUPA01 as shown. Source structure is YMDGM_BUPA01_S, Target structure ZMM_S_MM_PP_YBUPA01.	 <p>Mapping</p> <p>Name: * Z_MAP_YBUPA00_2STA Description: Map to staging Package Group: <input type="text"/> Multiple Contexts: <input type="checkbox"/></p> <p>Mapping Steps</p> <table border="1"> <thead> <tr> <th>* Mapping Step</th> <th>* Source Structure</th> <th>Change Structure</th> <th>Change Structure Keys Exist</th> <th>Additional Input Structures Exist</th> <th>Service Information Exists</th> <th>Description</th> <th>* Target Structure</th> </tr> </thead> <tbody> <tr> <td>MAP_YBUPA01</td> <td>YMDGM_BUPA01_S</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>map to YBUPA01</td> <td>ZMM_S_MM_PP_YBUPA01</td> </tr> </tbody> </table> <p>Save Close Read-Only Copy Delete Mapping ▾ External You Can Also</p>	* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist	Additional Input Structures Exist	Service Information Exists	Description	* Target Structure	MAP_YBUPA01	YMDGM_BUPA01_S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	map to YBUPA01	ZMM_S_MM_PP_YBUPA01
* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist	Additional Input Structures Exist	Service Information Exists	Description	* Target Structure										
MAP_YBUPA01	YMDGM_BUPA01_S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	map to YBUPA01	ZMM_S_MM_PP_YBUPA01										
8. Select your mapping step and choose the Details pushbutton.	 <p>Mapping</p> <p>Name: * Z_MAP_YBUPA00_2STA Description: Map to staging Package Group: <input type="text"/> Multiple Contexts: <input type="checkbox"/></p> <p>Mapping Steps</p> <table border="1"> <thead> <tr> <th>* Mapping Step</th> <th>* Source Structure</th> <th>Change Structure</th> <th>Change Structure Keys Exist</th> <th>Additional Input Structures Exist</th> <th>Service Information Exists</th> </tr> </thead> <tbody> <tr> <td>MAP_YBUPA01</td> <td>YMDGM_BUPA01_S</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>Save Close Read-Only Copy Delete Mapping ▾ External</p>	* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist	Additional Input Structures Exist	Service Information Exists	MAP_YBUPA01	YMDGM_BUPA01_S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist	Additional Input Structures Exist	Service Information Exists												
MAP_YBUPA01	YMDGM_BUPA01_S	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
9. Open the Transformations tab.	 <p>SAP Display Mapping Step: MAP_YBUPA01</p> <p>Mapping Z_MAP_YBUPA00_2STA > Mapping Step MAP_YBUPA01</p> <p>Mapping Description Map to staging Package Group</p> <p>Save Close Edit Copy Delete Mapping ▾ External</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> </tr> </thead> </table>	Order	* Transformation Type	Conditional													
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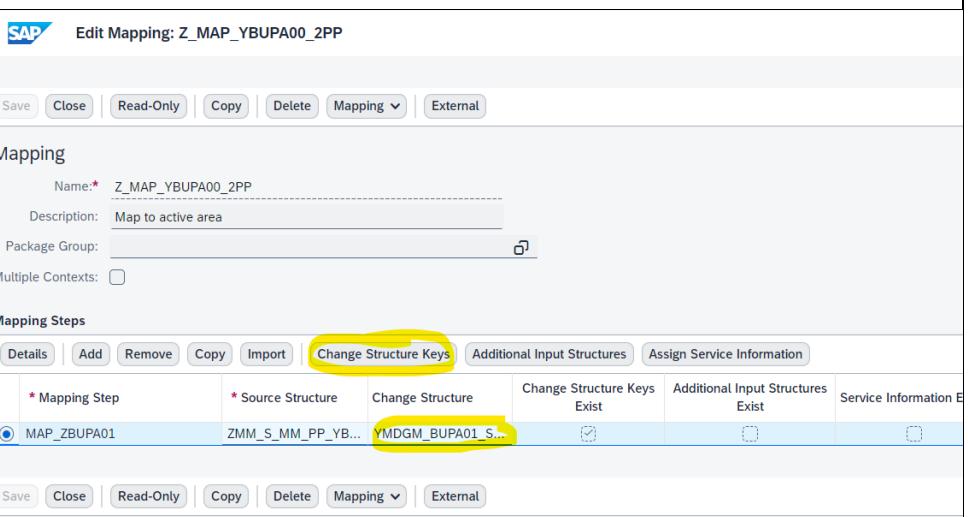
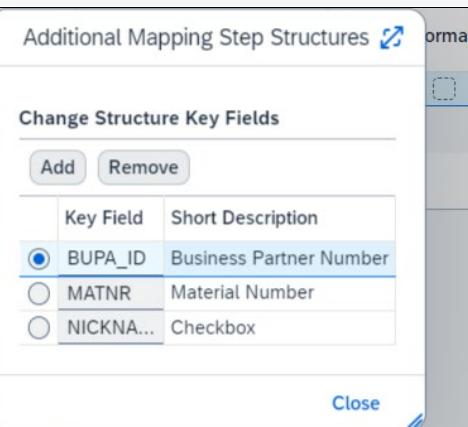
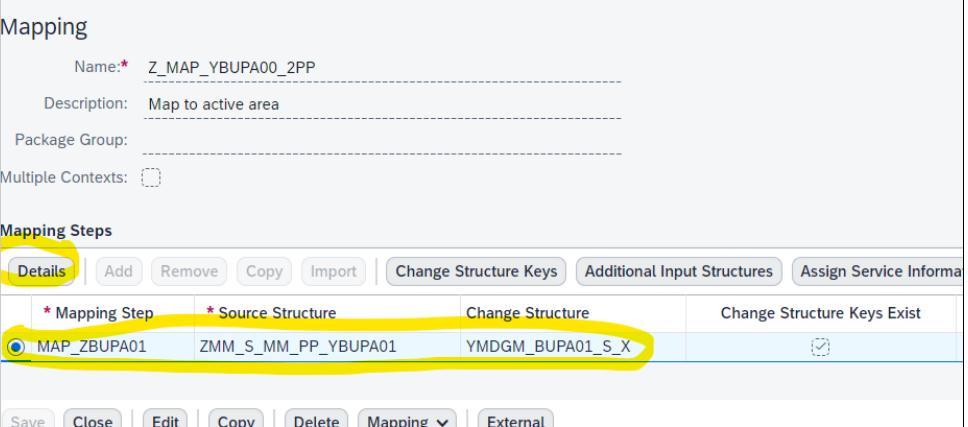
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10.	<p>Add a new Field Mapping.</p> <p>Edit Mapping Step: MAP_YBUPA01</p> <p>Mapping Z_MAP_YBUPA00_2STA > Mapping Step MAP_YBUPA01</p> <p>Mapping Description Map to staging Package Group</p> <p>Save Close Read-Only Copy Delete Mapping External</p> <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.	<p>Enter the field mappings as shown. Source structure is YMDGM_BUPA01_S Save your changes.</p> <p>Details for Transformation Order 00001</p> <p>Field Mapping</p> <p>Add Remove</p> <table border="1"><thead><tr><th>*</th><th>FIELD</th><th>Source Structure</th><th>Source Field</th><th>Fixed Value</th></tr></thead><tbody><tr><td><input type="radio"/></td><td>MATERIAL</td><td>YMDGM_B...</td><td>MATNR</td><td></td></tr><tr><td><input type="radio"/></td><td>NICKNAME</td><td>YMDGM_B...</td><td>NICKNAME</td><td></td></tr><tr><td><input type="radio"/></td><td>YBUPA</td><td>YMDGM_B...</td><td>BUPA_ID</td><td></td></tr></tbody></table>	*	FIELD	Source Structure	Source Field	Fixed Value	<input type="radio"/>	MATERIAL	YMDGM_B...	MATNR		<input type="radio"/>	NICKNAME	YMDGM_B...	NICKNAME		<input type="radio"/>	YBUPA	YMDGM_B...	BUPA_ID	
*	FIELD	Source Structure	Source Field	Fixed Value																	
<input type="radio"/>	MATERIAL	YMDGM_B...	MATNR																		
<input type="radio"/>	NICKNAME	YMDGM_B...	NICKNAME																		
<input type="radio"/>	YBUPA	YMDGM_B...	BUPA_ID																		

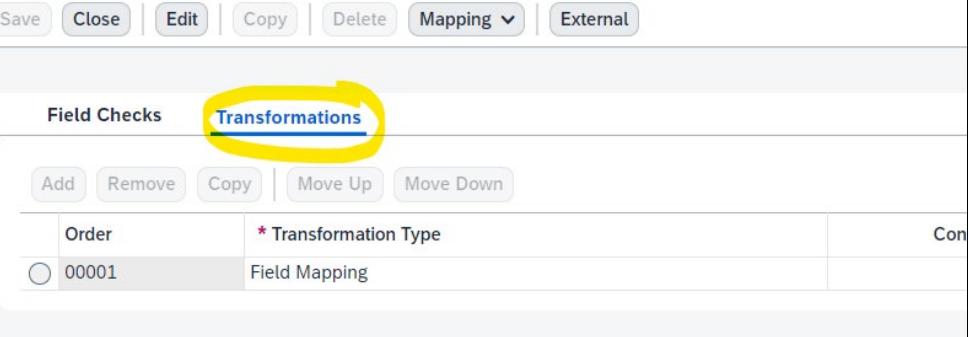
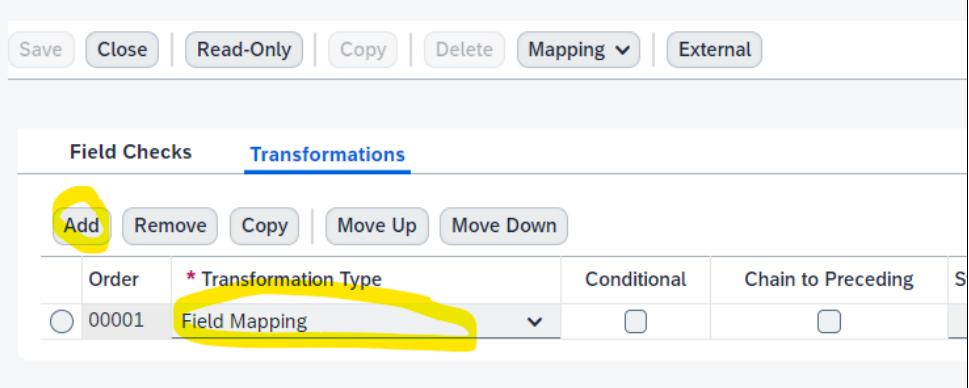
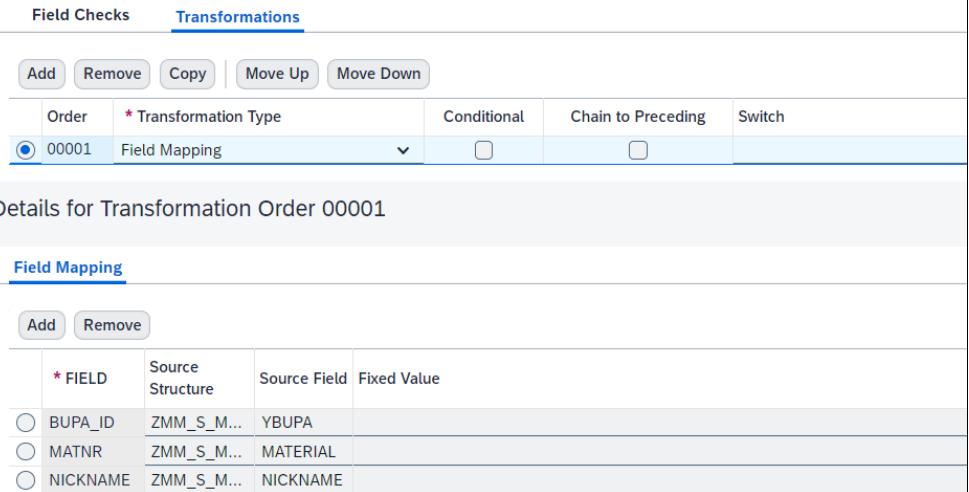
4.3.3. Map the Staging Area to the Active Area

1.	<p>In MDG customizing start <i>Create and Edit Mappings</i>.</p> 
2.	<p>Select <i>Mapping</i> -> <i>New</i> to create the next mapping.</p>
3.	<p>Enter the following mapping name: Z_MAP_YBUPA00_2PP</p>
4.	<p>Choose <i>Add</i> to create new mapping step using the details shown in the screenshot. Source structure is ZMM_S_MM_PP_YBU PA01, change structure is</p> 

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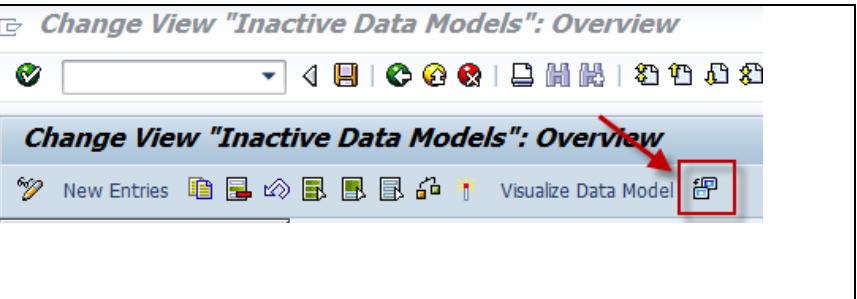
	YMDGM_BUPA01_S_X, target structure is YMDGM_BUPA01_S.													
5.	Choose the <i>Change Structure Keys</i> pushbutton. Then add the key fields of the change structure, as shown.	 <p>SAP Edit Mapping: Z_MAP_YBUPA00_2PP</p> <p>Save Close Read-Only Copy Delete Mapping External</p> <p>Mapping</p> <p>Name: * Z_MAP_YBUPA00_2PP Description: Map to active area Package Group: Multiple Contexts:</p> <p>Mapping Steps</p> <table border="1"> <thead> <tr> <th>* Mapping Step</th> <th>* Source Structure</th> <th>Change Structure</th> <th>Change Structure Keys Exist</th> <th>Additional Input Structures Exist</th> <th>Service Information Exist</th> </tr> </thead> <tbody> <tr> <td>MAP_ZBUPA01</td> <td>ZMM_S_MM_PP_YBUPA01</td> <td>YMDGM_BUPA01_S_X</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table> <p>Save Close Read-Only Copy Delete Mapping External</p>	* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist	Additional Input Structures Exist	Service Information Exist	MAP_ZBUPA01	ZMM_S_MM_PP_YBUPA01	YMDGM_BUPA01_S_X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist	Additional Input Structures Exist	Service Information Exist									
MAP_ZBUPA01	ZMM_S_MM_PP_YBUPA01	YMDGM_BUPA01_S_X	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
6.	Add the key field BUPA_ID, MATNR and NICKNAME as shown.	 <p>Additional Mapping Step Structures</p> <p>Change Structure Key Fields</p> <p>Add Remove</p> <table border="1"> <thead> <tr> <th>Key Field</th> <th>Short Description</th> </tr> </thead> <tbody> <tr> <td>BUPA_ID</td> <td>Business Partner Number</td> </tr> <tr> <td>MATNR</td> <td>Material Number</td> </tr> <tr> <td>NICKNA...</td> <td>Checkbox</td> </tr> </tbody> </table> <p>Close</p>	Key Field	Short Description	BUPA_ID	Business Partner Number	MATNR	Material Number	NICKNA...	Checkbox				
Key Field	Short Description													
BUPA_ID	Business Partner Number													
MATNR	Material Number													
NICKNA...	Checkbox													
7.	Select your mapping step and choose the <i>Details</i> pushbutton.	 <p>Mapping</p> <p>Name: * Z_MAP_YBUPA00_2PP Description: Map to active area Package Group: Multiple Contexts:</p> <p>Mapping Steps</p> <table border="1"> <thead> <tr> <th>* Mapping Step</th> <th>* Source Structure</th> <th>Change Structure</th> <th>Change Structure Keys Exist</th> </tr> </thead> <tbody> <tr> <td>MAP_ZBUPA01</td> <td>ZMM_S_MM_PP_YBUPA01</td> <td>YMDGM_BUPA01_S_X</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> <p>Save Close Edit Copy Delete Mapping External</p>	* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist	MAP_ZBUPA01	ZMM_S_MM_PP_YBUPA01	YMDGM_BUPA01_S_X	<input checked="" type="checkbox"/>				
* Mapping Step	* Source Structure	Change Structure	Change Structure Keys Exist											
MAP_ZBUPA01	ZMM_S_MM_PP_YBUPA01	YMDGM_BUPA01_S_X	<input checked="" type="checkbox"/>											

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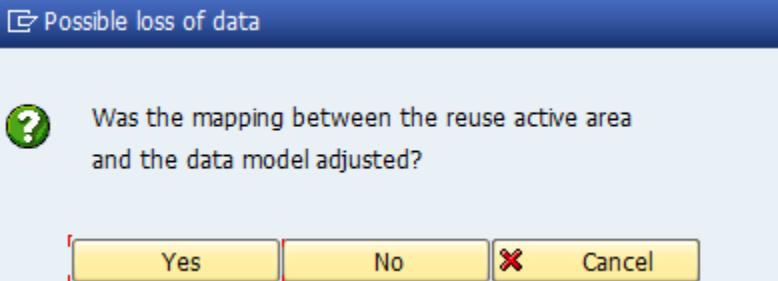
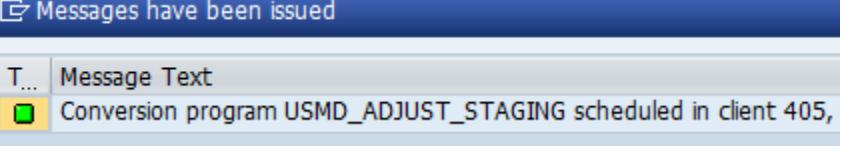
8. Open the <i>Transformations</i> tab.	
9. Choose the <i>Add</i> pushbutton to create a new <i>Field Mapping</i> entry.	
10. Create the field mapping as shown. Source structure is ZMM_S_MM_PP_YBU PA01. Save your changes.	

4.4. Adjust Staging Area of Linked Change Requests

This step is necessary to adjust any open change requests after you have changed the data model.

1. Start Customizing for <i>Master Data Governance</i> (transaction MDGIMG). Go to <i>General Settings -> Data Modeling -> Edit Data Model</i> . Select data model MM.	
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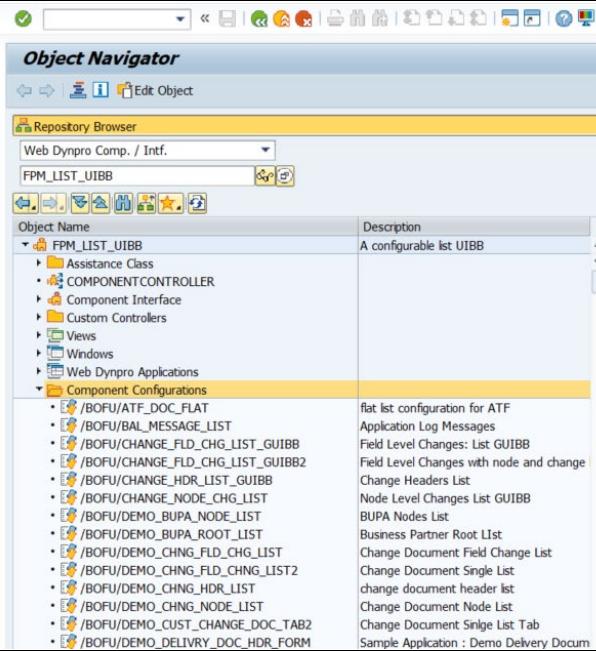
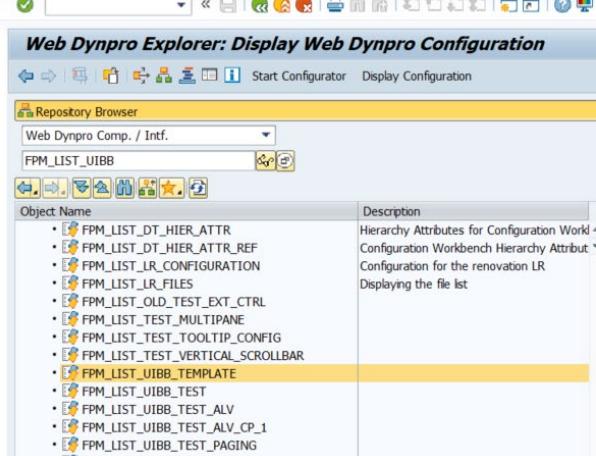
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	Double click on <i>Entity Types</i> . Choose the pushbutton <i>Adjust staging area of linked change requests</i>	
2.	Choose the Yes pushbutton.	
3.	The following message appears. Note: Make sure that user DDIC exist in all relevant clients.	

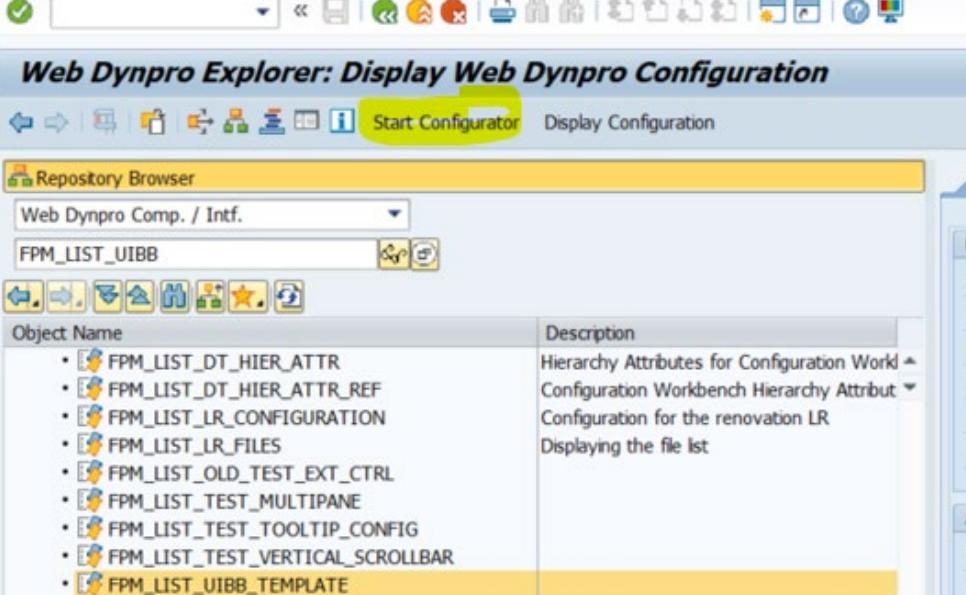
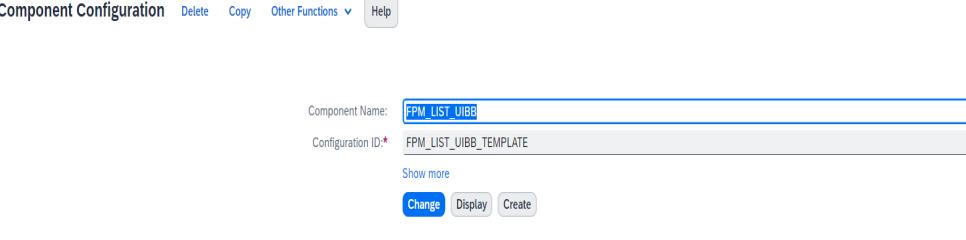
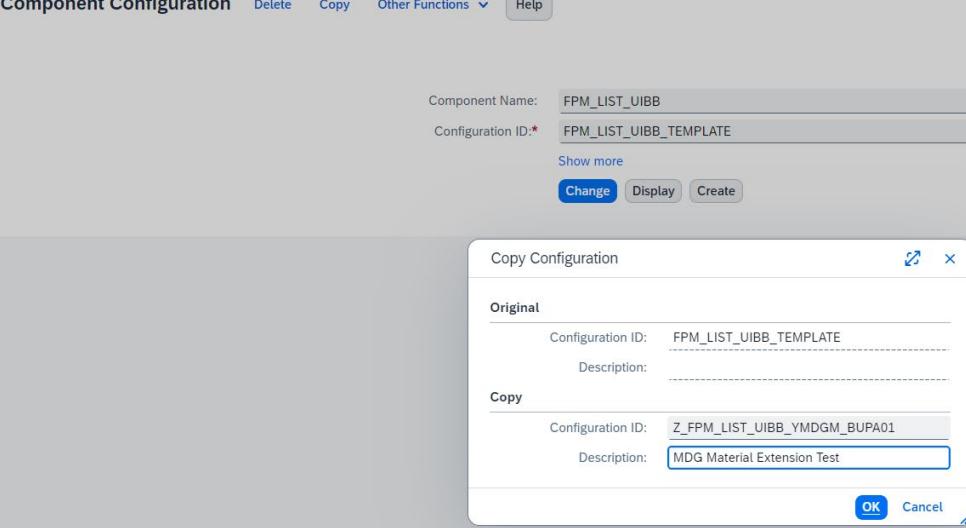
4.5. Extend User Interface

You can follow the described example or you can create an ATS list UIBB instead without a template. For more information, see extensibility guide for UI: [How-To Extend MDG-M User Interface](#).

4.5.1. Create FPM List UIBB

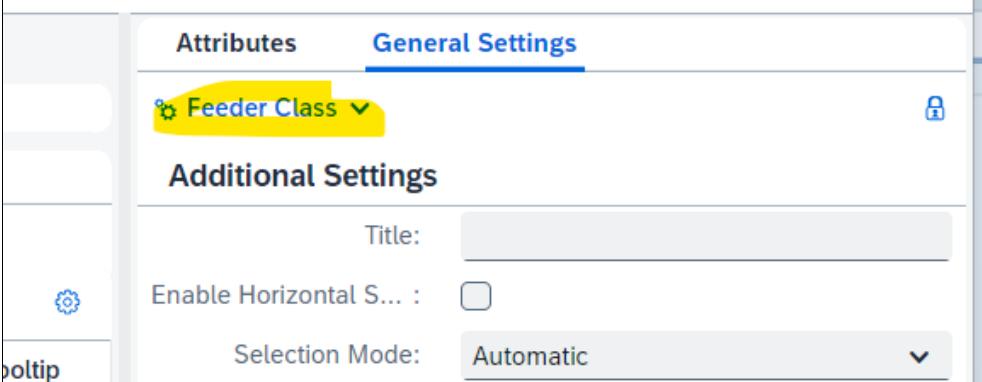
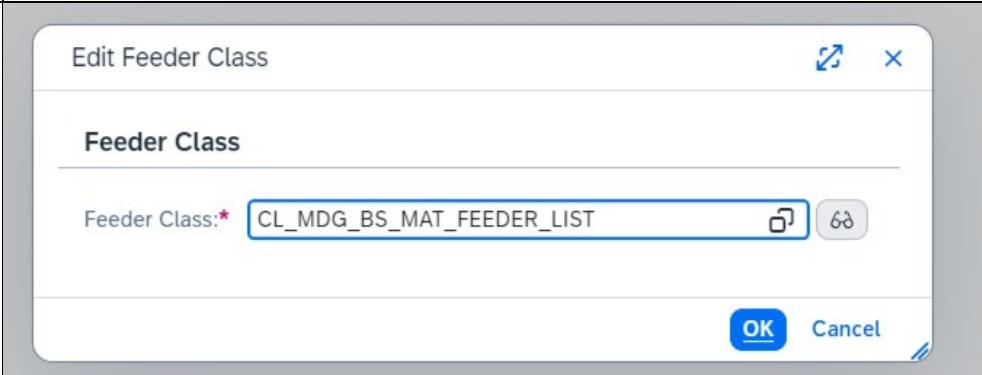
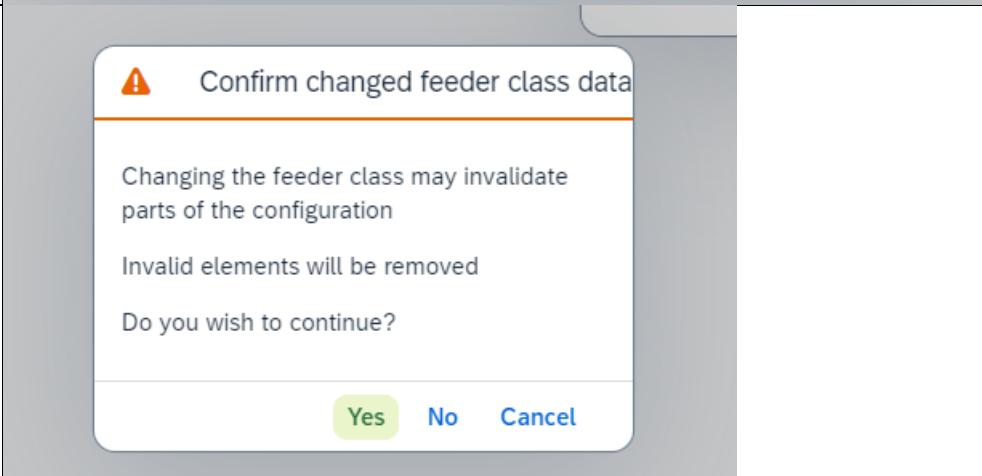
1.	<p>Navigate to the <i>Component Configuration</i> as shown in the screenshot.</p>	 <p>The screenshot shows the ABAP Workbench Object Navigator. The left pane displays a tree structure under 'Object Name' for 'FPM_LIST_UIBB'. The 'Component Configurations' node is expanded, showing various sub-items like 'BOFU/ATF_DOC_FLAT', 'BOFU/BAL_MESSAGE_LIST', etc. The right pane shows a welcome message: 'Welcome to ABAP Workbench' and 'Ready to start with the next generation development in Eclipse?' It also lists some features: 'Creating data models using ABAP CDS entities language (DDL) specification', 'Developing source- and form-based ABAP Dictionary', 'Comparing versions and editing objects across', 'Arranging the object tree to your needs', 'Using quick assists to change ABAP source code', and 'And many others'. A note at the bottom says 'Have you ever tried using ABAP Development Tools (did not find the features as you know them from SE80? Our new FAQ guide supports you! It contrasts how to features in SE80 and ADT. Download now your ADT client'.</p>
2.	<p>Open configuration FPM_LIST_UIBB_TEMPLATE.</p>	 <p>The screenshot shows the Web Dynpro Explorer: Display Web Dynpro Configuration. The left pane displays a tree structure under 'Object Name' for 'FPM_LIST_UIBB'. The 'FPM_LIST_UIBB_TEMPLATE' node is selected and highlighted. The right pane shows the 'Properties' tab of the configuration. The 'Config ID' is set to 'FPM_LIST_UIBB_TEMPLATE', 'Configuration Type' is '0 General', and 'Config. Variant' is empty. Other properties include 'Description', 'Web Dynpro Applicat.', 'Web Dynpro Component' (set to 'FPM_LIST_UIBB'), 'Administrative Data' (with 'Created By' and 'Last Changed By' both set to 'SAP'), 'Package' (set to 'APB_FPM_GUILBB'), and 'Original language' (set to 'EN').</p>

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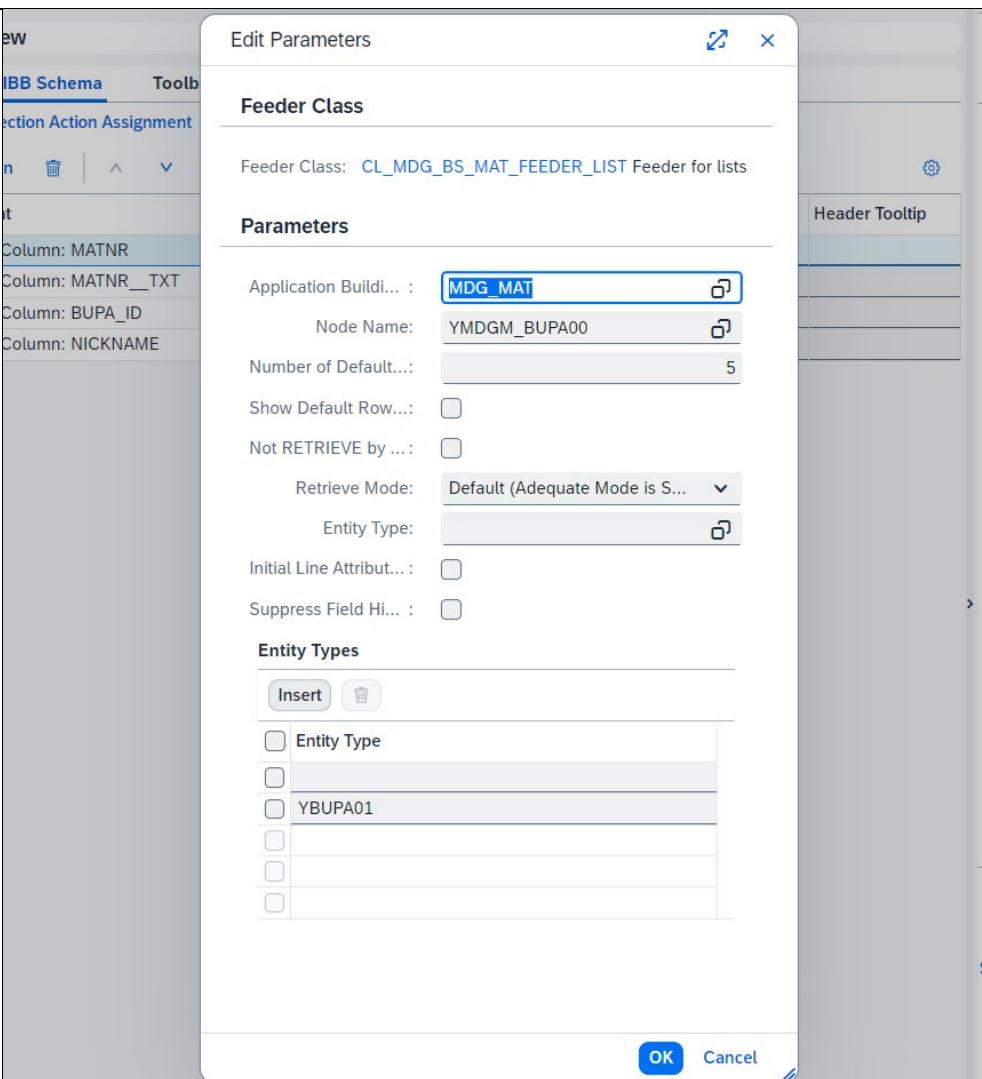
3.	<p>Choose the <i>Start Configuration</i> pushbutton.</p>	
4.	<p>Choose the <i>Copy</i> icon.</p>	
5.	<p>Enter a name for the copy as shown.</p>	

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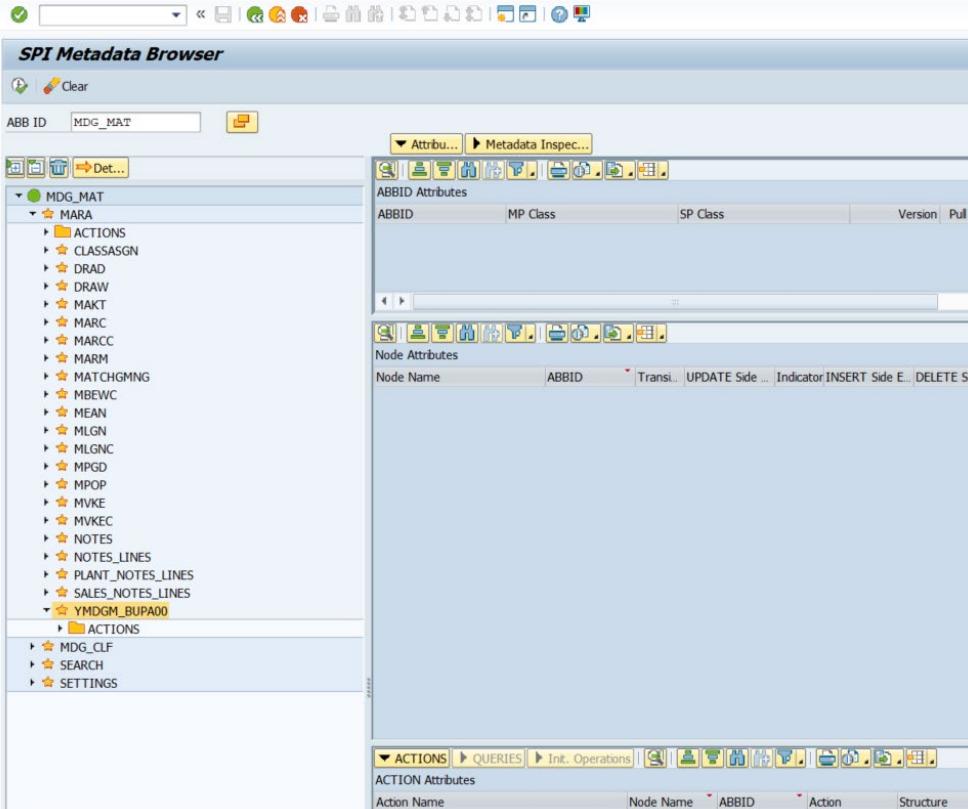
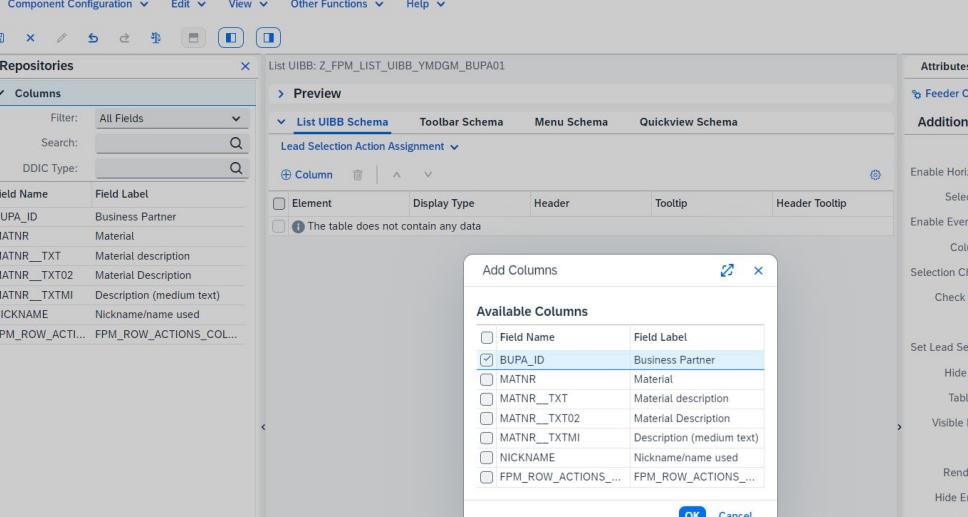
6.	<p>Refresh the navigation tree and open the new configuration.</p>	<p>Object Name</p> <ul style="list-style-type: none"> ZKM_MBEW_UIBB ZMBEW ZMDG_BS_MAT_DESCR_LIST_CP_Z02 ZMDG_BS_MAT_GTIN_LIST_CP_Z02 ZMDG_BS_MAT_INT_COMM_LIST ZMDG_BS_MAT_TEXT_LIST_CP_Z02 ZMDG_BS_MAT_UOM_LIST_CP_Z02 ZUSMD_CR_ATTACHMENTS_CP_Z02 ZUSMD_CR_NOTES_CP_Z02 ZUSMD_CR_TARGETSYSTEMS_CP_Z02 ZZMBEW_LIST ZZ_MARC Z FPM LIST UIBB MARC Z_FPM_LIST_UIBB_YMDGM_BUPA01
7.	<p>Choose the <i>Start Configuration</i> pushbutton.</p>	<p>Object Name</p> <ul style="list-style-type: none"> WCM_WDC_WP_CERTIF_LIST_CFG WCM_WDC_WP_CERT_T_LIST_CFG WCM_WDC_WP_ORDER_LIST_CFG WCM_WDC_WP_PERMIT_LIST_CFG WDC_ORD_OPER_COMP_CFG WDC_ORD_OPER_COMP_CFG_V2 ZFPM_LIST_UIBB_EIR ZFPM_LIST_UIBB_PIR Z_FPM_LIST_UIBB_YMDGM_BUPA01 <p>Description</p> <p>WCM: Work Permit (Assigned Safety Certificates) WCM: Work Permit (Safety Certificate Templates) WCM: Work Permit (Assigned Orders) WCM: Work Permit (Assigned Approvals)</p> <p>Order Operation Component Configuration</p> <p>MDG Material Extension Test</p>
8.	<p>Choose to continue in change mode.</p>	<p>Component Configuration Delete Copy Other Functions Help</p> <p>Component Name: FPM_LIST_UIBB</p> <p>Configuration ID: Z_FPM_LIST_UIBB_YMDGM_BUPA01</p> <p>Show more</p> <p>Change Display Create</p>

9.	<p>Under <i>General Settings</i> choose the <i>Feeder Class</i> pushbutton.</p>	
10.	<p>Enter the name of the feeder class.</p>	
11.	<p>To confirm, choose Yes.</p>	

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12. Enter the feeder parameters as shown. Make sure you enter a value for the number of default rows.	 <p>The screenshot shows the 'Edit Parameters' dialog for a 'Feeder Class'. The 'Feeder Class' field contains 'CL_MDG_BS_MAT_FEEDER_LIST'. The 'Parameters' section includes fields for 'Application Build...', 'Node Name...', 'Number of Default...', 'Show Default Row...', 'Not RETRIEVE by ...', 'Retrieve Mode' (set to 'Default (Adequate Mode is S...)'), 'Entity Type' (set to 'YMDGM_BUPA00'), 'Initial Line Attribute...', and 'Suppress Field HI...'. The 'Entity Types' section contains a table with two entries: 'YBUPA01' and 'YBUPA02'. At the bottom are 'OK' and 'Cancel' buttons.</p>
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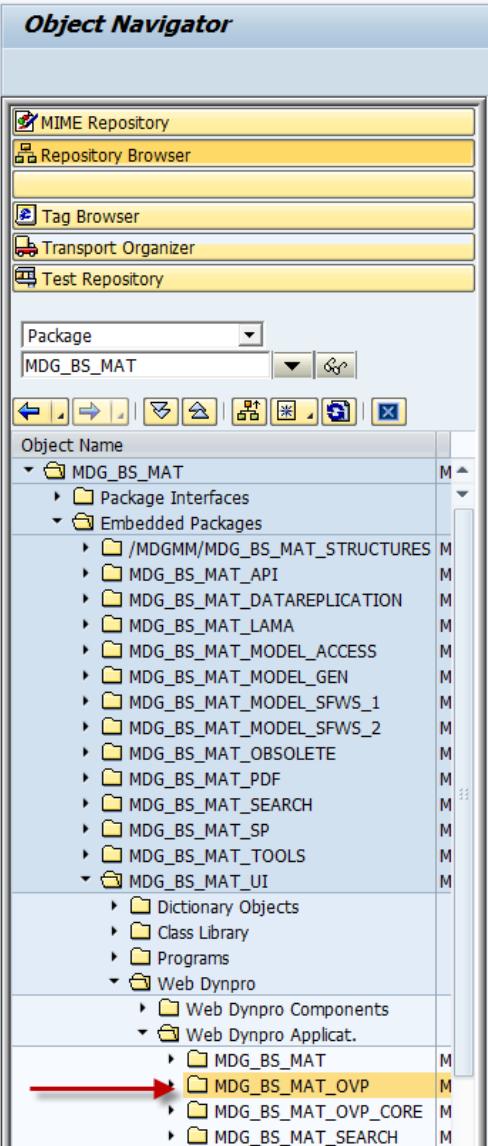
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13.	<p>Node name verification: if you're unsure about the node name, run transaction MDB, enter ABB ID MDG_MAT and you will get the available nodes</p>	
14.	<p>Choose the Column pushbutton to see the list of available columns.</p>	

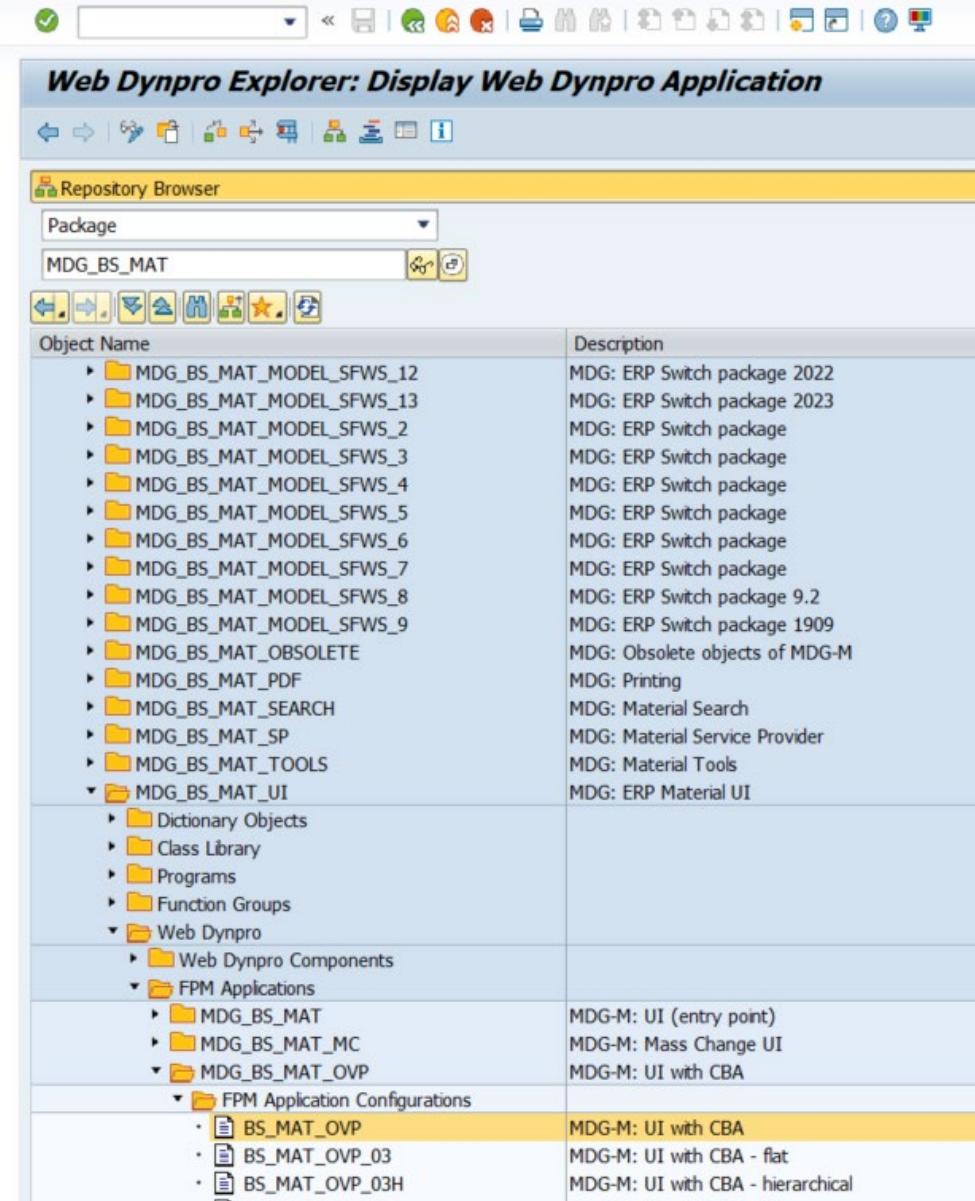
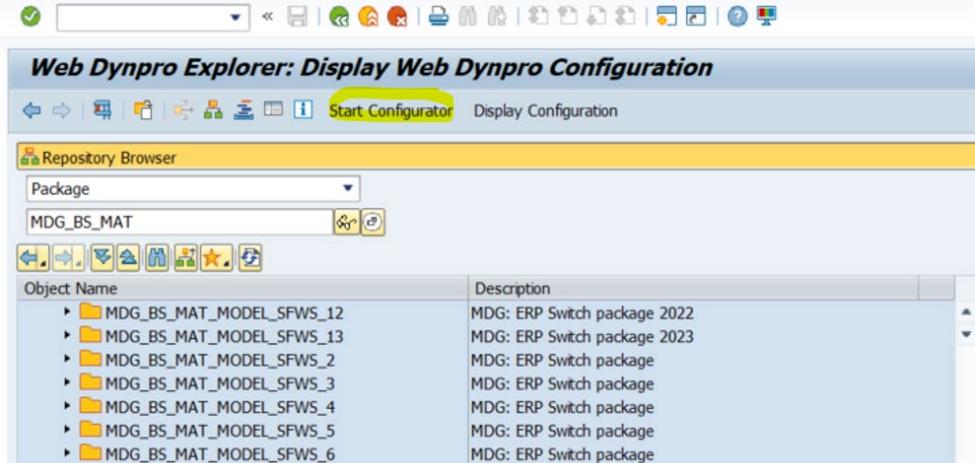
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15.	<p>Select the columns from the list of available columns as shown.</p> <p>List UIBB: Z_FPM_LIST_UIBB_YMDGM_BUPA01</p> <p>> Preview</p> <p>▼ List UIBB Schema Toolbar Schema Menu Schema Quickview Schema</p> <p>Lead Selection Action Assignment ▾</p> <p><input type="button" value="⊕ Column"/> <input type="button" value="⊖"/> <input type="button" value="^"/> <input type="button" value="▼"/></p> <table border="1"><thead><tr><th>Element</th><th>Display Type</th><th>Header</th><th>Tooltip</th><th>Header Tooltip</th></tr></thead><tbody><tr><td><input checked="" type="checkbox"/> Column: MATNR</td><td>Input Field</td><td>Material</td><td></td><td></td></tr><tr><td><input type="checkbox"/> Column: MATNR__TXT</td><td>Input Field</td><td>Material description</td><td></td><td></td></tr><tr><td><input type="checkbox"/> Column: BUPA_ID</td><td>Input Field</td><td>Business Partner</td><td></td><td></td></tr><tr><td><input type="checkbox"/> Column: NICKNAME</td><td>Input Field</td><td>Nickname/name used</td><td></td><td></td></tr></tbody></table>	Element	Display Type	Header	Tooltip	Header Tooltip	<input checked="" type="checkbox"/> Column: MATNR	Input Field	Material			<input type="checkbox"/> Column: MATNR__TXT	Input Field	Material description			<input type="checkbox"/> Column: BUPA_ID	Input Field	Business Partner			<input type="checkbox"/> Column: NICKNAME	Input Field	Nickname/name used		
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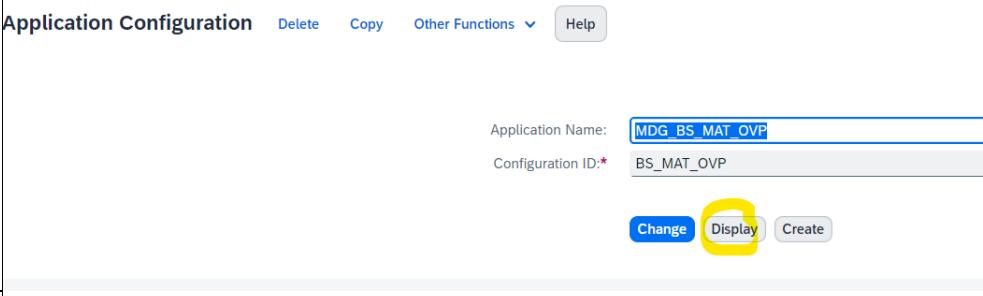
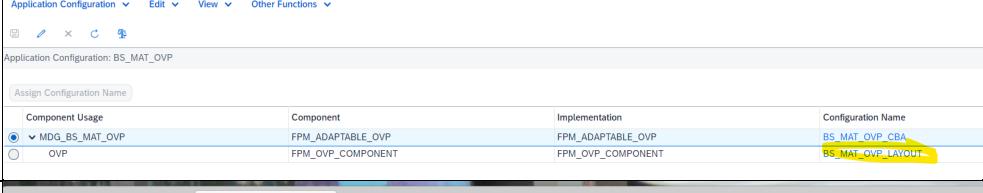
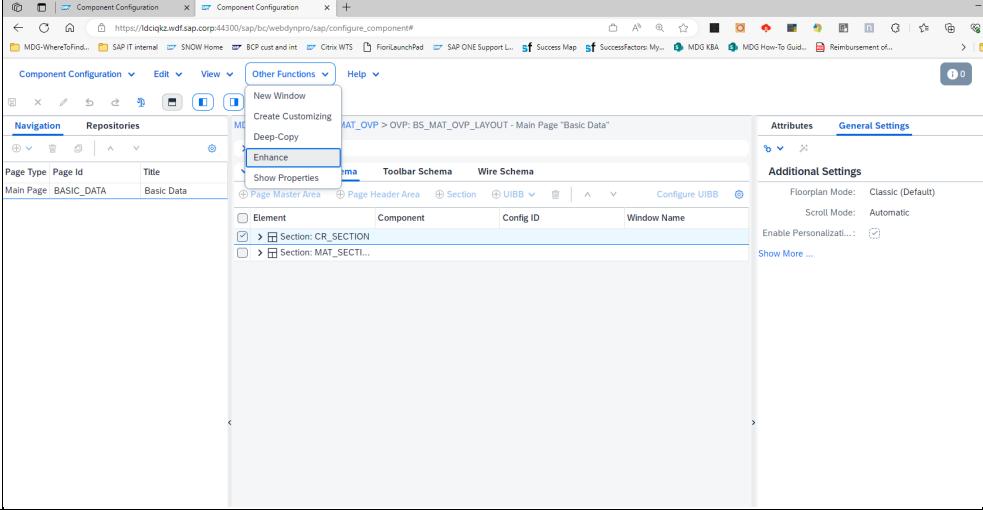
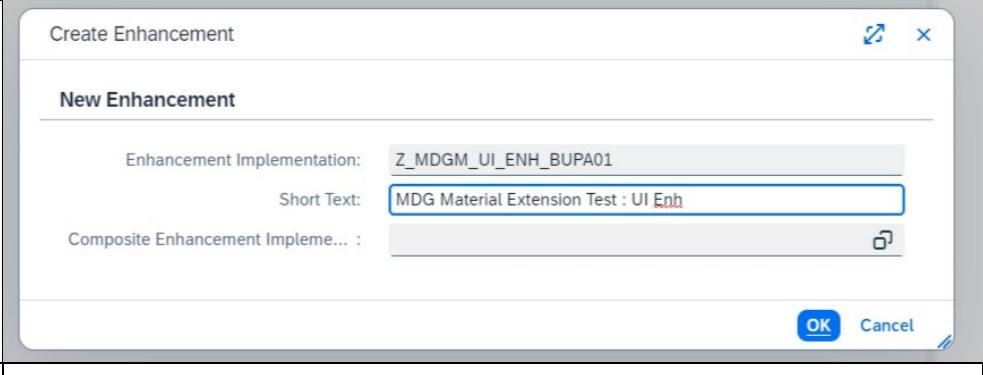
4.5.2. Add List UIBB to Material UI

<p>1. Navigate to the <i>Application Configuration</i> as shown.</p>	 <p>The screenshot shows the SAP Object Navigator interface. At the top, there's a toolbar with various icons. Below it is a search bar with 'MDG_BS_MAT' entered. The main area is titled 'Object Navigator' and shows a tree view of objects under the package 'MDG_BS_MAT'. The tree includes 'Package Interfaces', 'Embedded Packages' (which further contains 'MDG_BS_MAT_STRUCTURES', 'MDG_BS_MAT_API', etc.), 'Dictionary Objects', 'Class Library', 'Programs', 'Web Dynpro' (with 'Components' and 'Applicat.'), and finally 'MDG_BS_MAT' (which contains 'MDG_BS_MAT_OVP', 'MDG_BS_MAT_OVP_CORE', and 'MDG_BS_MAT_SEARCH'). A red arrow points to the 'MDG_BS_MAT_OVP' folder.</p>
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2. Open the configuration BS_MAT_OVP.	
3. Choose the <i>Start Configuration</i> pushbutton.	

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4.	Choose to continue in display mode.	 <p>The screenshot shows the SAP Application Configuration interface. The application name is set to 'MDG_BS_MAT_OVP' and the configuration ID is 'BS_MAT_OVP'. The 'Display' button is highlighted with a yellow circle.</p>
5.	Navigate to the configuration BS_MAT_OVP_LAYOUT.	 <p>The screenshot shows the SAP Application Configuration interface for the 'BS_MAT_OVP' configuration. It displays component usage, components, implementations, and configuration names. The 'BS_MAT_OVP_LAYOUT' configuration is highlighted with a yellow circle.</p>
6.	<p>Select <i>Other Functions -> Enhance</i>. Or you can create a new CBA or you can use customizing mode.</p>	 <p>The screenshot shows the SAP Component Configuration interface. The 'Other Functions' menu is open, and the 'Enhance' option is selected. A tooltip indicates it leads to 'MAT_OVP > OVP: BS_MAT_OVP_LAYOUT - Main Page "Basic Data"'.</p>
7.	Provide a name for your enhancement.	 <p>The screenshot shows the 'Create Enhancement' dialog box. The 'New Enhancement' section is active. The 'Enhancement Implementation' field contains 'Z_MDGM_UI_ENH_BUPA01' and the 'Short Text' field contains 'MDG Material Extension Test : UI Enh.'</p>
8.	Add a new <i>List Component</i> to the Section: MAT_SECTION element as shown.	

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	<p>The screenshot shows the SAP Component Configuration interface. A context menu is open over a UI element, specifically a 'List Component'. Other options visible in the menu include 'POWL Component', 'Search Component', 'Tabbed Component', 'Tree Component', and 'VisBiz Component'.</p>
9.	<p>The screenshot shows the SAP Component Configuration interface. A 'List Component' has been selected and is being configured. The 'Attributes' tab is active, showing details for the 'Standard Attributes of Section: MAT_SECTION'. The 'Component' field is set to 'FPM_LIST_UIBB'. The 'Window Name' dropdown shows options like 'LIST_WINDOW', 'FORM_WINDOW', and 'COMPOSITE_WINDOW'. The 'Section ID' is 'MAT_SECTION' and the 'Section Title' is 'One Column (Standard Layout)'.</p>
10.	<p>The screenshot shows the SAP Component Configuration interface. A 'Wire Schema' section is displayed, showing a list of wire entries. One entry is selected, showing its details in the right panel. The 'Component' is 'FPM_LIST_UIBB' and the 'Config ID' is 'Z_FPM_LIST_UIBB_YMDGM_BUPA01'. The 'Source Component' is 'MDG_BS_MAT_MATERIAL_FORM' and the 'Port Type' is 'Lead Selection'. The 'Port Identifier' is 'MARA' and the 'Connector Class' is 'PLMU/CL_FRW_W_CONN_DEFAULT'.</p>
11.	<p>Save your changes.</p>

4.5.3. Clear UI Metadata Buffers

After finishing the UI, clear the metadata buffers. You can find the report in *Customizing Master Data Governance, Central Governance-> Master Data Governance for Material-> Clear UI Metadata Buffers*.

This report clears the following buffers in this sequence:

- Text Buffer
- Search Help Buffer
- SMT-Mapping Data Buffer
- SPI Metadata Buffer

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You should use this report after extending the data model to make sure that the metadata is consistent with the MDG customizing and UI configuration.

5. Testing Your Data Model Extension

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

`https://<host>:<port>/sap/bc/webdynpro/sap/mdg_bs_mat?ACTION=CREATE&WDCONFIGURATIONID=BS_MAT_INIT&sap-client=<client-id>`

Alternatively, start transaction PFCG, enter role name SAP_MDG_MENU* and click the *Display* pushbutton. Select the *Menu* tab. In the hierarchy window, navigate to *Role Menu -> Material Governance -> Material Processing*. Right click on *Create Material* and select *Execute* from the drop-down

The screenshot shows the SAP MDG Material UI interface. At the top, there's a header with the SAP logo and the title 'Basic Data'. Below the header are navigation links: 'Edit', 'Refresh', 'Check', and 'Print / Print Preview'. On the right side of the header, there are several small icons.

The main area is divided into sections:

- General Data:** This section contains fields for 'Material*', 'Base Unit of Measure*', 'Material Type*', 'Industry Sector*', 'Material Group', 'Old material number', and 'Authorization Group'. The 'Material' field is highlighted with a red box.
- Grouping:** This section contains fields for 'Ext. Material Group', 'Product hierarchy', and 'Cross-Plant CM'.
- Configuration:** This section contains a single field for 'Configuration'.

On the left side, there's a sidebar with expandable sections:

- > Change Request
- > Basic Data (selected)
- > Design Data
- > Descriptions
- > Classification
- > Dimensions
- > GTIN/EAN
- > Basic Text
- > Internal Comment
- > Business Partner Addition

In the 'Business Partner Addition' section, there's a table with columns: Material, Material description, Business Partner, and Nickname/name used. Two rows are visible, both with checked checkboxes in the first column. The first row has values: SMUE_MDG_EXT_TEST, 608, LEMONGREEN. The second row has values: SMUE_MDG_EXT_TEST, 9774, DEEPBLUE.

At the bottom right of the form, there are three buttons: 'Save', 'Submit', and 'Cancel'.

6. Additional Information

6.1. Further Reading

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](#)
- Learn more: [Latest Release](#) | [Webinars](#) | [Help Portal](#) | [How-to Information](#) | [Key Presentations](#)

SAP Roadmap Explorer

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

Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | [FPM Blog](#) | [How-to Information](#) | [Service Mapping Tool](#)

6.2. SAP Notes

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

Note Number	Note Description
3194967	MDG Customer Connection 2021 for S/4HANA 2022
3043582	MDG Customer Connection 2020
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
2479869	Usage of Lean Classification with SAP Master Data Governance
1619534	How to Create, Enhance and Adapt FPM Applications