



PUBLIC

# **How-To: Extend Master Data Governance for Material by a New Entity Type (ERP Table, Reuse Option)**

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
4.0	Additional structure CMD_BS_MAT_S_MAT_DATA (June 2016)
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# 1 Introduction

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

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

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

Domain-specific content such as data models, user interfaces, and workflows is included as part of the standard offering. It is a frequent customer requirement to extend the MDG data models according to their specific needs.

This How-To Guide describes the solution to extend the MDG-M data model by a new entity type. The attribute values of the new entity type will be copied to the corresponding ERP tables (reuse option) after activation of the change request.

## Note

The node extensibility (entity type), which is introduced in the following sections covers all segments and fields that are contained in data dictionary structure `MDG_BS_MAT_S_MAT_DATA`. It does not, however, address additionally accessible tables of the Material Master such as the Production Resource Tool Fields (MFHM).

## Note

From MDG9 the additional structure `CMD_BS_MAT_S_MAT_DATA` has to be enhanced in the same way as `MDG_BS_MAT_S_MAT_DATA`.

## 2 Business Scenario

The business requires the new entity type called “Plant Data for Material” as part of the MDG Material data model.

You want to extend the (Type1) entity type MATERIAL to include the entity type ZZMARC. ZZMARC includes the following attributes: LVORM, XCHAR, DISMM, DISPO, DISLS.

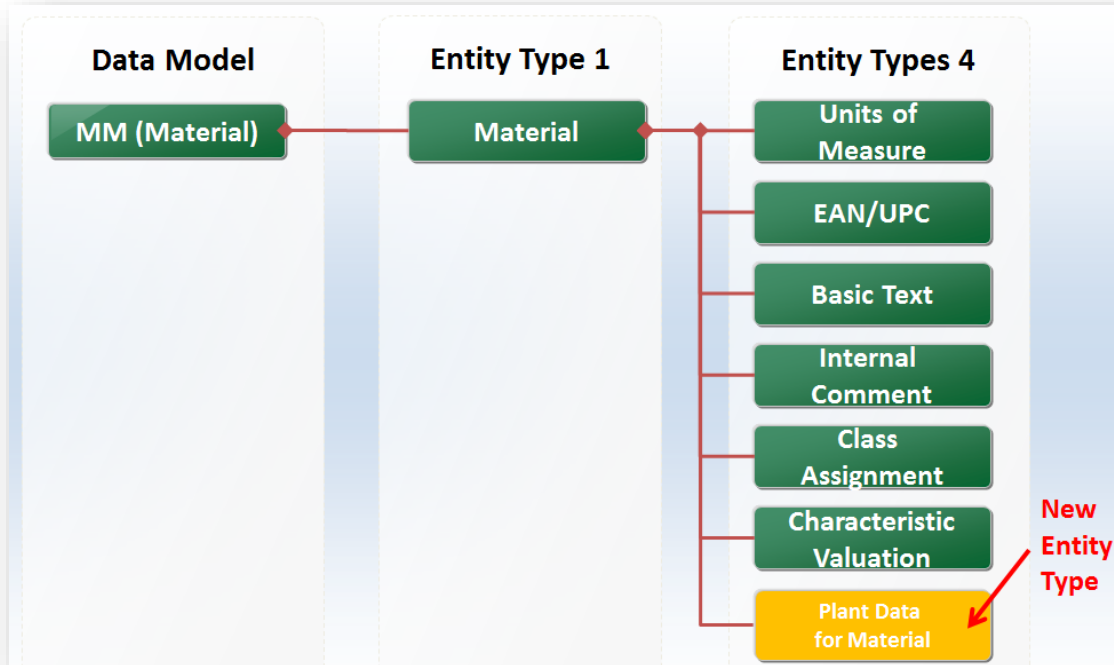


Figure: Data Model – Material (Scope of 2011 Delivery) with custom entity type “Plant Data for Material”

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

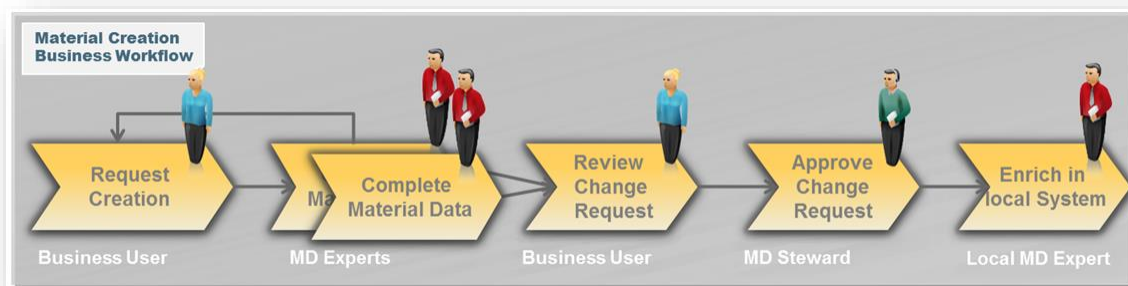


Figure: Material Processing in Master Data Governance

## 3 General Concepts in MDG

The implementation steps in this document are easier to understand if you are familiar with the basic concepts; in particular data modeling and user interface customization. In this introduction section, you can learn more about these concepts. Alternatively, you can skip this section and move straight to the implementation part.

### 3.1 Data Modeling

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.

#### 3.1.1 Basic Data Model for Material

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

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

You can either centralize the maintenance of process controlling data on the MDG hub by using the standard backend transactions for material maintenance or you can decentralize the maintenance of process controlling data.

The delivered standard data model is “MM” (This model is linked to Business Object ID 194 “Material” / “BUS2550” Material)

You can find the delivered data model content for the different releases in SAP Note [3134600](#).

#### Additional Information:

- A BAdI is available for data enhancement during change request activation
  - 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).

#### 3.1.2 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.

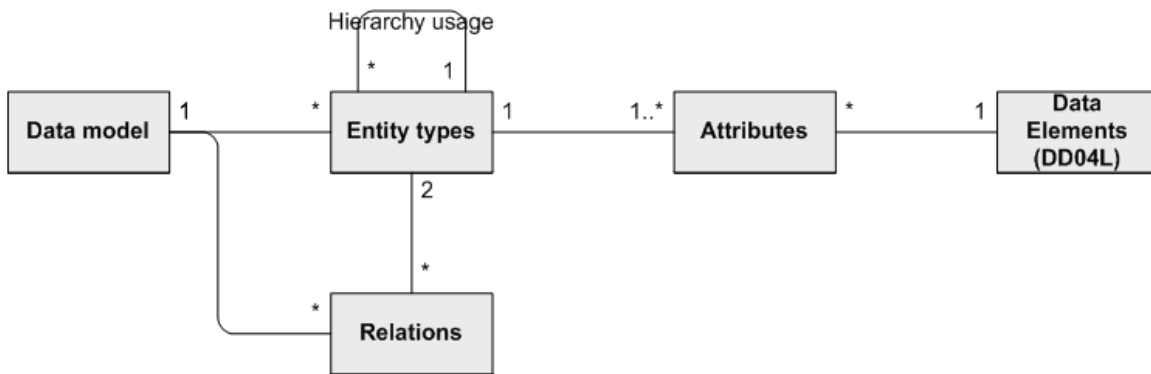











Figure: The meta model is an entity-relationship-model (ERM)

The preconfigured data model for the business object types Material is MM. You can view the SAP delivered data model in Customizing for *Master Data Governance* under *General Settings > Data Modeling > Edit Data Model*. Alternatively, you can enter view cluster VC\_USMD001 in transaction SM34.

Change View "Entity Types": Overview

 New Entries  Visualize Data Model

Dialog Structure

- Inactive Data Models
  - Entity Types
    - Attributes
    - Business Object
    - Entity Types for
      - Hierarchy At
      - Hierarchy At
  - Relationships
    - Fields of Foreign
    - Reuse Active Areas

Data ModelMM

Entity Types		
Entity Type	Storage/Use Type	Val.Entity
INTCMNT	Changeable via Other Entity...	No Edition
LANGUCODE	Not Changeable via MDG; No ...	No Edition
MATERIAL	Changeable via Change Reque...	No Edition
MEAN_GTIIN	Changeable via Other Entity...	No Edition
QTEUNIT	Not Changeable via MDG; No ...	No Edition
UNITOFMSR	Changeable via Other Entity...	No Edition

## Storage and Use Types

You assign a 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.

<p>Changeable via Change Request; Generated Database Tables</p> <p>(Type 1)</p>	<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.</p> <p>The common key fields of these tables are:</p> <ul style="list-style-type: none"> <li>The entity type itself</li> <li>The edition – if you previously specified in the data model that the validity of master data changes is restricted to editions</li> <li>The entity types that are assigned to the entity type through leading relationships</li> </ul>
---------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



	<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 <i>Active</i> 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 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>
<p>Changeable w/o Change Request; Generated Check/Text Tables</p> <p>(Type 2)</p>	<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>
<p>Not Changeable via MDG; No Generated Tables</p> <p>(Type 3)</p>	<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>
<p>Changeable via Other Entity Type; Generated Database Tables</p> <p>(Type 4)</p>	<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 To-entity 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.

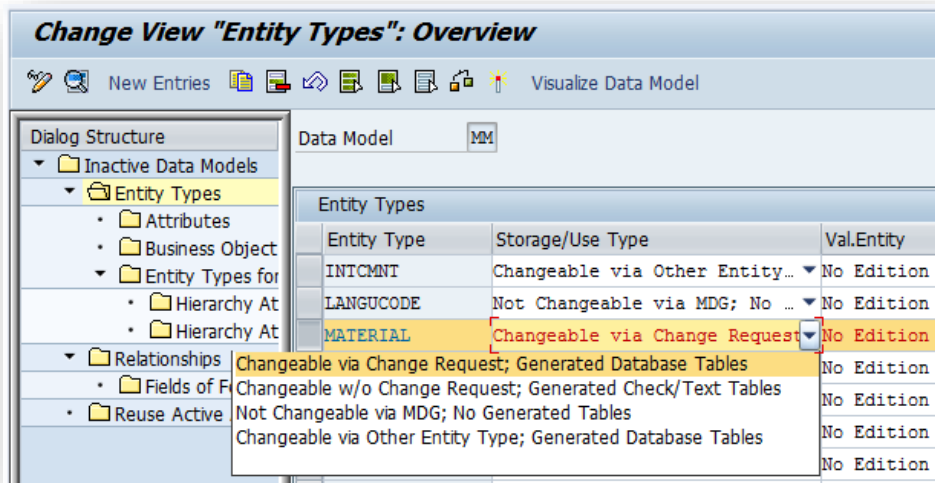


Figure: Selection box showing the different storage/use types in MDG

## 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
<b>Referencing</b>	Specifies the <i>From-Entity type</i> as an attribute of the <i>To-Entity type</i> .
<b>Leading</b>	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.
<b>Qualifying</b>	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
<b>1:N</b>	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> .
<b>0:N</b>	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. For a table with detailed information refer to [SAP Help Portal](#).

## Important

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.

### Reuse Area Versus the Flexible Option

When you extend the SAP delivered data model by a new entity type you have to decide where the data should be stored after activation of the change request. During processing of the change request, the data is stored in the MDG staging area. After activation the data can be moved to tables outside of MDG or it can stay in the MDG tables.

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.
- Re-Use active area (re-use mode) – Existing structures of applications are used. For example, MDG for material makes use of the `MARA` table in ECC.

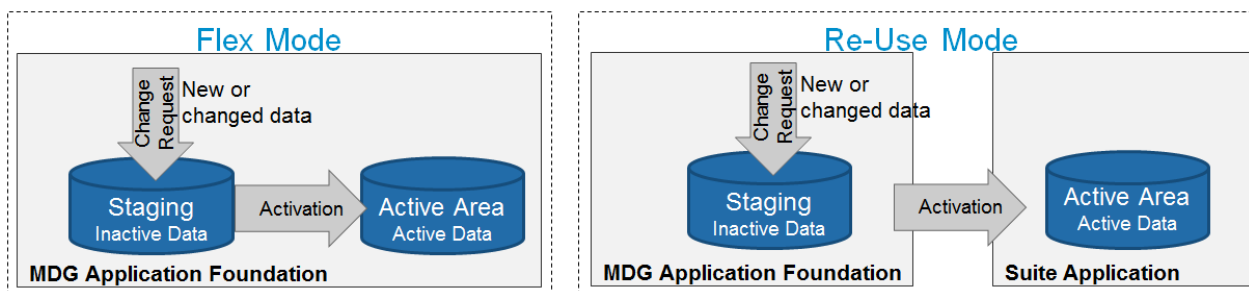


Figure: Flexibility Option (left) versus Reuse Option (right)

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.

**Change View "Inactive Data Models": Overview**

Dialog Structure: Inactive Data Models

Data Model	Description (medium text)	Reuse Area
0F	Chart of Accounts	
0G	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
Z9	test	

Figure: Assignment of Reuse Area for the Data Model MM

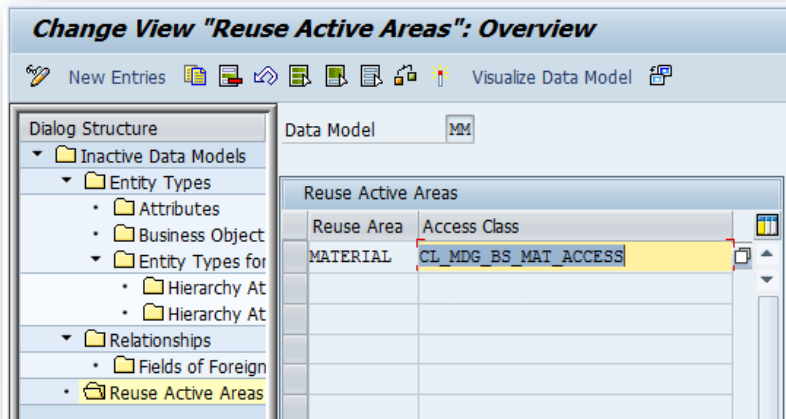


Figure: Assignment of Access Class for Reuse Area MATERIAL

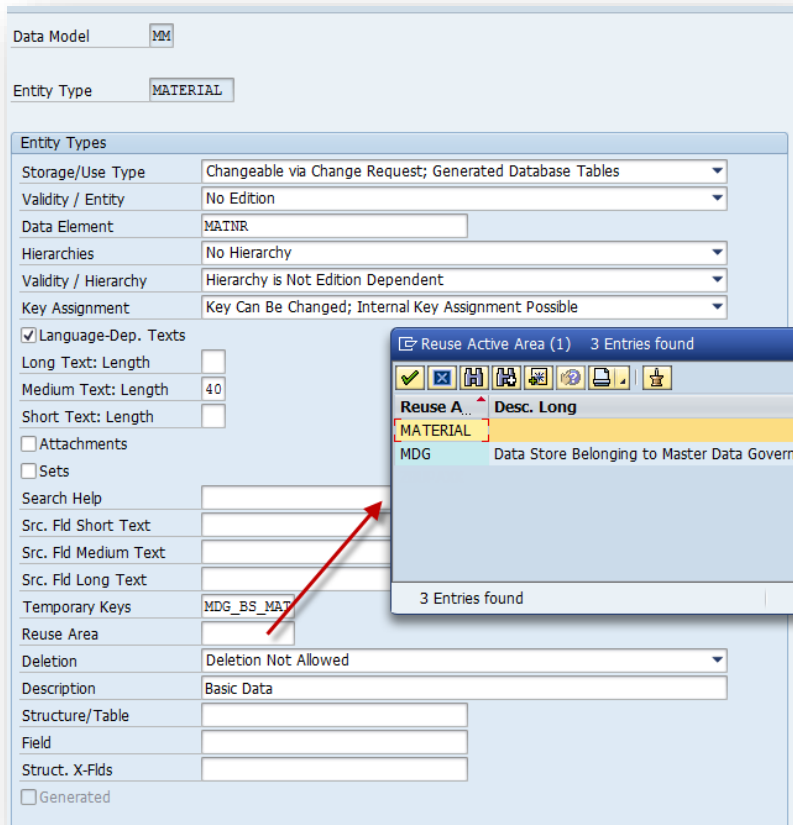


Figure: Alternative assignment of Reuse Area on Entity Type level

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.

## F4-Help

Since ERP 6 EhP6 it is required to maintain a foreign-key relationship for the data element in order to get F4-Help. This should be considered during data modeling.

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

## 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.

## Data Modeling Considerations for List-UIBBs

In case you want to add two (or more) List-UIBBs (User Interface Building Blocks) to the Material User Interface you have to consider this during data modeling. Basically, there are two cases you need to distinguish:

1. You want the two List-UIBBs to be independent. In this case you need to create separate Entity Types and assign one to each List-UIBB.
2. You want to create a new row in the second UIBB automatically after creating a row in the first UIBB (for the same key, of course). In this case we recommend you assign the same Entity Type for both List-UIBBs (or implement a derivation).

The following example illustrates the two scenarios.

### Example

You have MRP1/MRP2 and Foreign Trade Export modeled as Entity Type `ZZMARC`.

Foreign Trade Export (separate) is modeled as a separate Entity Type `ZZMARCFTE`.

In the Component Configuration for Foreign Trade Export (separate), you have maintained the Entity Type `ZZMARCFTE`. For MRP1/MRP2 and Foreign Trade Export component configuration, you have maintained entity type as `ZZMARC`.

With this Entity Type specified in the Component Configuration, when entering a new row in `ZZMARC` component configurations, it does not affect the `ZZMARCFTE` entity. Thus, this would be useful when you want to enter only Foreign Trade Export data and not MRP data.

**MRP 1**

Plant	MRP Type	MRP description	MRP Controller	Lot size	Tot. repl. lead time
1000					0
					0
					0
					0
					0

**Foreign Trade Export**

Plant	Comm./imp. code no.	Description	Country of origin	Name
1000				

**Foreign Trade Export (separate)**

Plant	Comm./imp. code no.	Description	Country of origin	Name
1100				

## 3.2 User Interface Configuration

The User Interface in MDG is configured using the Floorplan Manager (FPM). The FPM is a Web Dynpro ABAP application that provides a framework for developing new Web Dynpro ABAP application interfaces consistent with SAP UI guidelines.

The entry point you need for starting an application is the *application configuration*, which is tied to a single Web Dynpro application. The necessary information needed to start the application is divided between the following two entities:

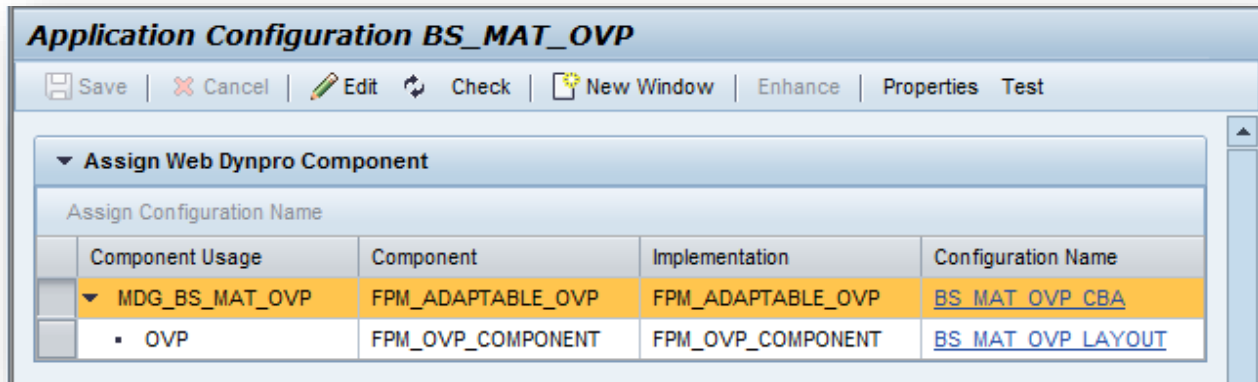
- **Web Dynpro ABAP Application:** Contains the information about the main component and window of the application
- **Web Dynpro ABAP Application Configuration:** Contains the information about the configuration used for starting the main component

There are only 3 different main components used in FPM-based applications. Each one corresponds to one of the supported floorplans:

- OIF (Object Instance Floorplan): component `FPM_OIF_COMPONENT`
- GAF (Guided Activity Floorplan): component `FPM_GAF_COMPONENT`
- OVP (Overview Page Floorplan): component `FPM_OVP_COMPONENT`

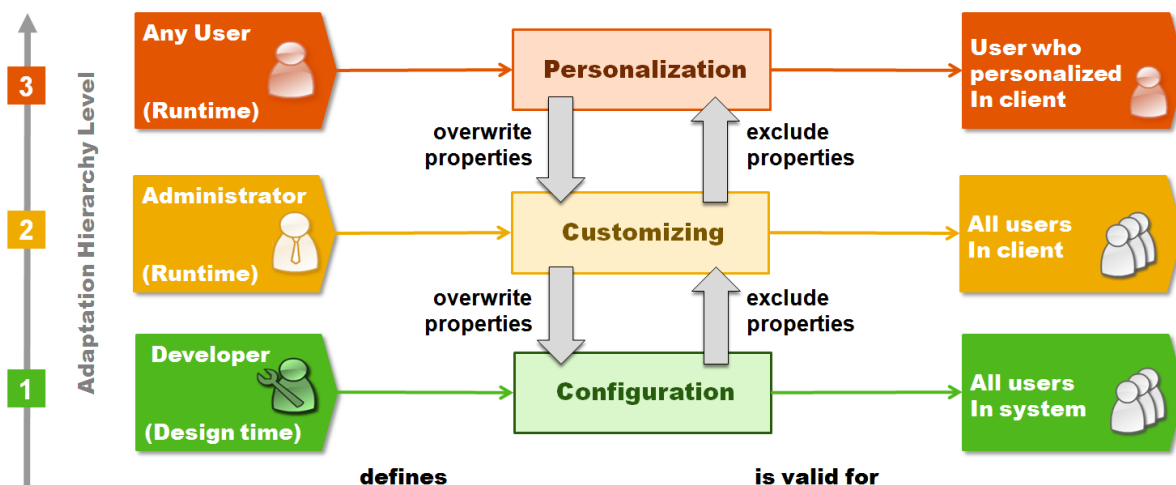
In the screenshot below application `MDG_BS_MAT_OVP` is using component `FPM_ADAPTABLE_OVP` as the start component, therefore the first line corresponds to that component. Here, it is specified that `FPM_ADAPTABLE_OVP` starts with component configuration `BS_MAT_OVP_CBA`. As component `FPM_ADAPTABLE_OVP` is the component providing the floorplan's functionality and layout, we will use the term 'floorplan component' for it and the term 'floorplan configuration' for the configuration used to start it.

In the second, subordinate, line (OVP) you find the *Configuration Name* of the Overview Page Floorplan (OVP). In the screenshot below, it is `BS_MAT_OVP_LAYOUT`.



### 3.2.1 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 customizing 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, see [Web Dynpro ABAP Home](#).

### 3.2.2 Removing Customizing or Personalization

If required a system administrator can delete customizing or personalization from a central place using the following Web-Dynpro applications. These applications should be used with caution.

Web Dynpro applications:

- WD\_ANALYZE\_CONFIG\_USER
- WD\_ANALYZE\_CONFIG\_COMP
- WD\_ANALYZE\_CONFIG\_APPL



## 4 Implementation

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

The 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.

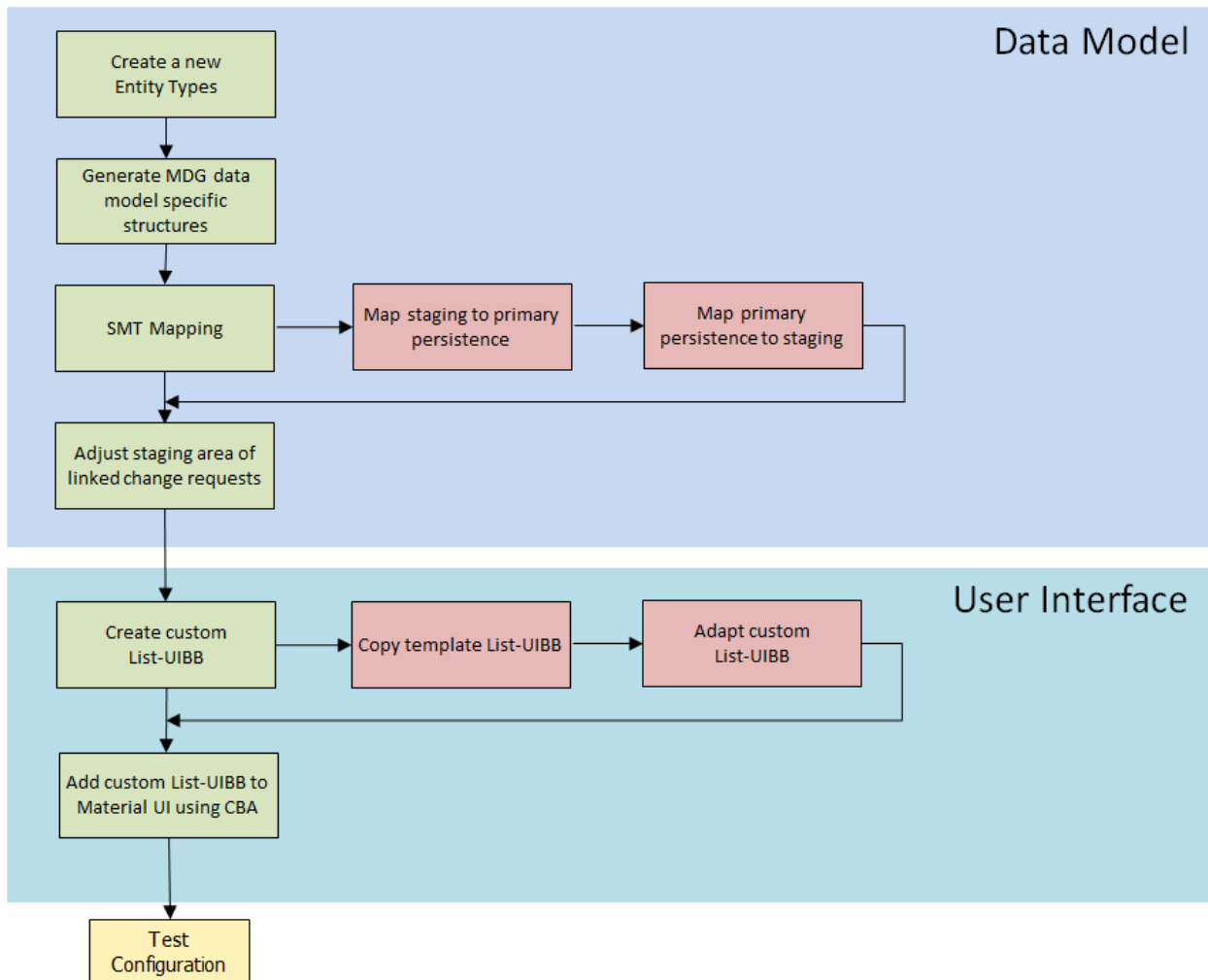


Figure: Implementation steps for re-use Entity-Type extension

### 4.1 Data Model Extension

You want to extend the MDG data model for Material (MM) by the additional Entity Type “Plant Data for Material” (MARC). The following fields from MARC should be modeled as attributes of the new Entity Type in MDG.

Transp. Table

MARC

Active

Short Description

Plant Data for Material

Attributes

Delivery and Maintenance

Fields

Entry help/check

Currency/Quantity Fields

Srch Help

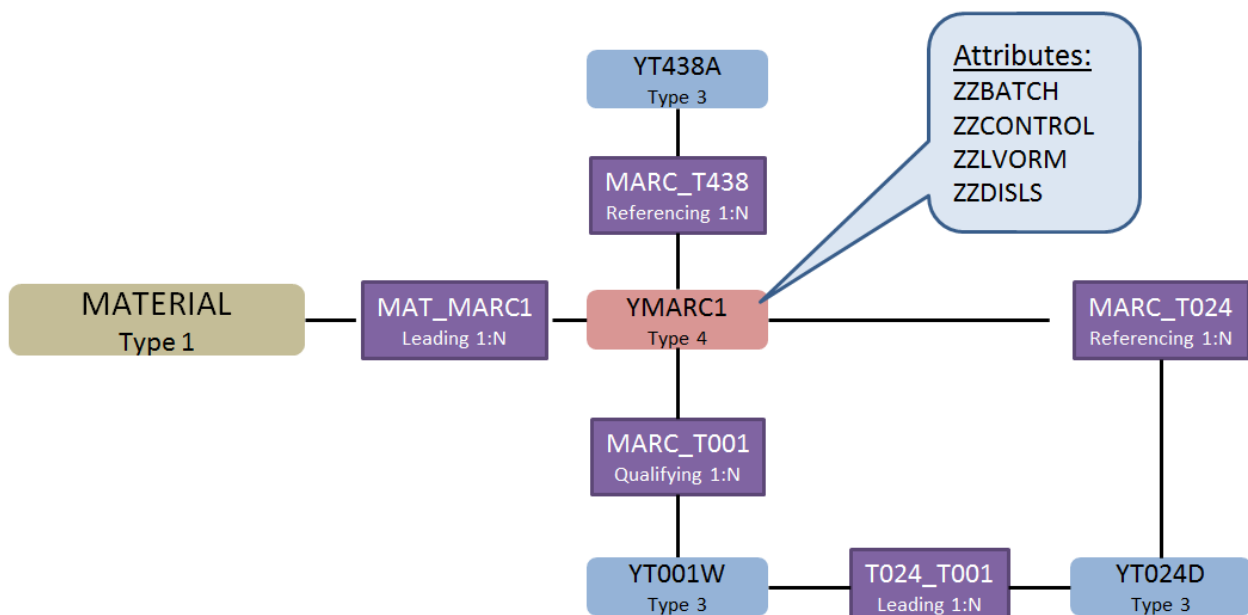
Predefined Type

1 / 239

Field	Key	Initi	Data element	Data Type	Length	Decim	Short Description	Group
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	
WERKS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	WERKS_D	CHAR	4	0	Plant	
INCLUDE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EMARC	STRU	0	0	Data Division MARC	
INCLUDE	<input type="checkbox"/>	<input type="checkbox"/>	EMARC1	STRU	0	0	Data Division MARC: Division 1	
PSTAT	<input type="checkbox"/>	<input type="checkbox"/>	PSTAT_D	CHAR	15	0	Maintenance status	
LVORM	<input type="checkbox"/>	<input type="checkbox"/>	LVORM	CHAR	1	0	Flag Material for Deletion at Plant Level	
BWTTY	<input type="checkbox"/>	<input type="checkbox"/>	BWTTY_D	CHAR	1	0	Valuation Category	
XCHAR	<input type="checkbox"/>	<input type="checkbox"/>	XCHAR	CHAR	1	0	Batch management indicator (internal)	
MMSTA	<input type="checkbox"/>	<input type="checkbox"/>	MMSTA	CHAR	2	0	Plant-Specific Material Status	
MMSTD	<input type="checkbox"/>	<input type="checkbox"/>	MMSTD	DATS	8	0	Date from which the plant-specific material status is valid	
MAABC	<input type="checkbox"/>	<input type="checkbox"/>	MAABC	CHAR	1	0	ABC Indicator	
KZKRI	<input type="checkbox"/>	<input type="checkbox"/>	KZKRI	CHAR	1	0	Indicator: Critical part	
EKGRP	<input type="checkbox"/>	<input type="checkbox"/>	EKGRP	CHAR	3	0	Purchasing group	
AUSME	<input type="checkbox"/>	<input type="checkbox"/>	AUSME	UNIT	3	0	Unit of issue	
DISPR	<input type="checkbox"/>	<input type="checkbox"/>	DISPR	CHAR	4	0	Material: MRP profile	
DISMM	<input type="checkbox"/>	<input type="checkbox"/>	DISMM	CHAR	2	0	MRP Type	
DISPO	<input type="checkbox"/>	<input type="checkbox"/>	DISPO	CHAR	3	0	MRP controller	
KZDIE	<input type="checkbox"/>	<input type="checkbox"/>	KZDIE	CHAR	1	0	Indicator: MRP controller is buyer (deactivated)	
PLIFZ	<input type="checkbox"/>	<input type="checkbox"/>	PLIFZ	DEC	3	0	Planned delivery time in days	
WEBAZ	<input type="checkbox"/>	<input type="checkbox"/>	WEBAZ	DEC	3	0	Goods receipt processing time in days	
PERKZ	<input type="checkbox"/>	<input type="checkbox"/>	PERKZ	CHAR	1	0	Period Indicator	
AUSSS	<input type="checkbox"/>	<input type="checkbox"/>	AUSSS	DEC	5	2	Assembly scrap in percent	
DISLS	<input type="checkbox"/>	<input type="checkbox"/>	DISLS	CHAR	2	0	MRP Lot Size	
BESKZ	<input type="checkbox"/>	<input type="checkbox"/>	BESKZ	CHAR	1	0	Procurement Type	
SOBSL	<input type="checkbox"/>	<input type="checkbox"/>	SOBSL	CHAR	2	0	Special Procurement Type	
MINBE	<input type="checkbox"/>	<input type="checkbox"/>	MINBE	QUAN	13	3	Reorder Point	
EISBE	<input type="checkbox"/>	<input type="checkbox"/>	EISBE	QUAN	13	3	Safety stock	
BSTMI	<input type="checkbox"/>	<input type="checkbox"/>	BSTMI	QUAN	13	3	Minimum Lot Size	
BSTMA	<input type="checkbox"/>	<input type="checkbox"/>	BSTMA	QUAN	13	3	Maximum Lot Size	

You first create a new entity type **YMARC1** and assign it a *Storage and Use Type 4*. The entity type has the attributes **LVORM**, **XCHAR**, **DISMM**, **DISPO**, and **DISLS**. The relationship between **MATERIAL** and **MARC** is 1 : N of type **Leading**.

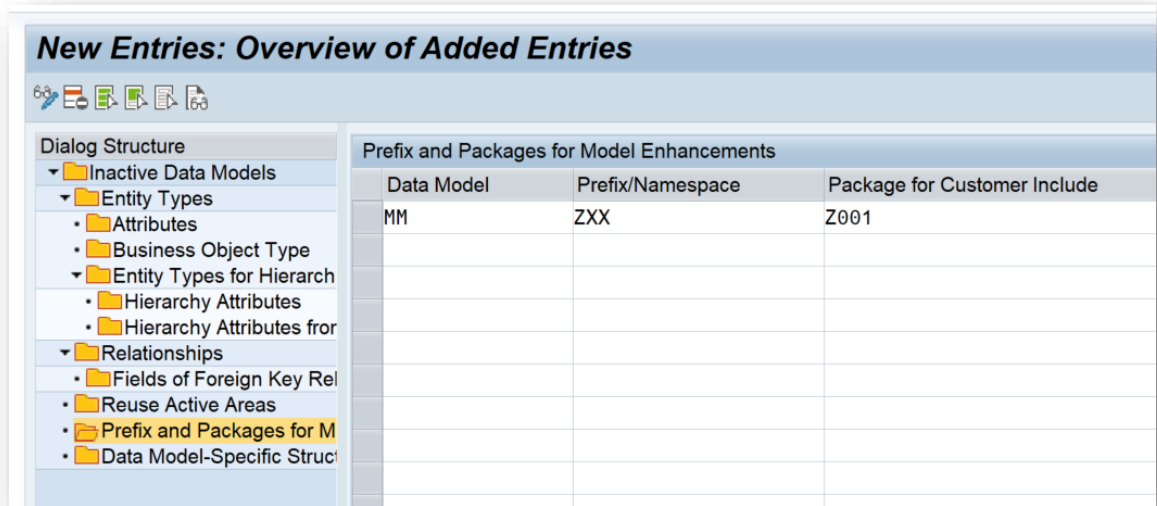
You also create additional entity types with *Storage and Use Type 3*, and relationships as shown in the diagram below.



### 4.1.1 MDG Data Model-Specific Structures

In general, if you change a data model (for example, if you change attributes of entity types or relationships) you need to regenerate the structures.

From MDG8 you can assign a prefix and a package directly in the data model. Then the structures will be generated automatically with activation of the data model.



- Note**

The prefix or the namespace represents the first part of the names used for the generated structures on data model level. In customer systems, you can use the letters Y or Z as a prefix, or you can specify a valid existing customer namespace. Existing customer namespaces are stored in the tables `TRNSPACET` and `TRNSPACEL` or you can check it with transaction SE03.
- Note**

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

### 4.1.2 Create a New Entity Type

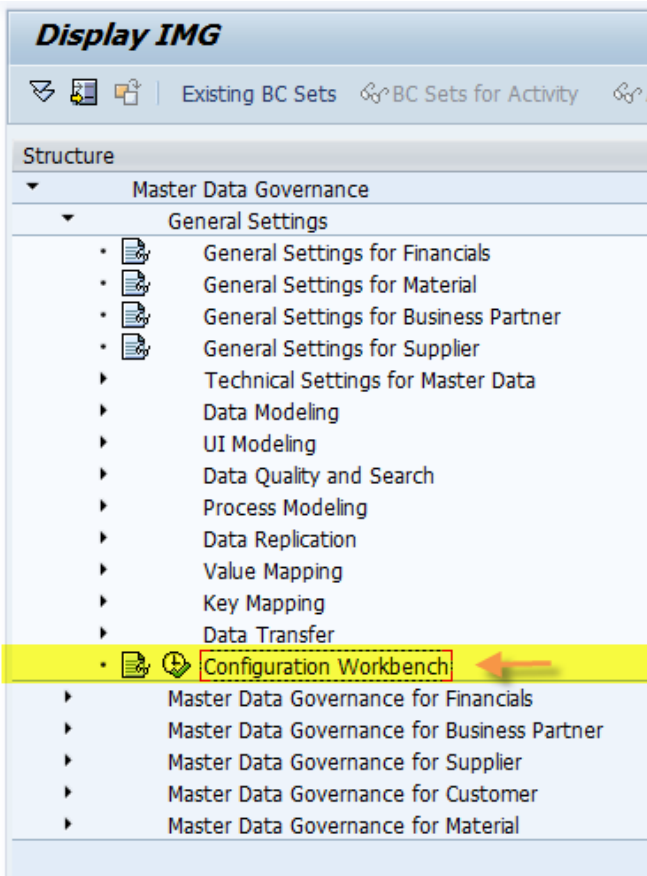
**Note**  
If a field in a new reuse entity type or in an existing reuse entity type is relevant for selection in the download application, the customer must add this field to the template for the MDG-M enterprise search. Doing this prevents a performance bottleneck. For more information, see [How To Page with Sub-Category Search](#). The template that the customer must enhance is the enterprise search template for a search of the staging is `MDG_MATERIAL`. You only need to enhance the `MATERIAL` template if the field is not already contained within that template.

1.	Log into system for cross-client maintenance.	
2.	Start Customizing for <b>Master Data Governance</b> (transaction MDGIMG).  Go to <b>General Settings -&gt; Configuration Workbench</b> .	

Select data model MM.

Click the **Edit** pushbutton.

In the left hand table with the list of Entity Types click the **New** pushbutton.



3.

Create New Entity Type

**Entity Type:** YMARC1

**Storage/Use Type:**  
Changeable via Other Entity Type; Generated Database Table

**Reuse Area:** empty (this means the entity type uses the reuse area configured for the data model)

Save your settings.

Details: YMARC1

General | Attributes | Incoming Relationships | Outgoing Relationships

**General Data**

\* Entity Type: YMARC1

Description: Plant Data for Material (Reuse)

\* SU Type: 4 - Changeable via Other Entity

Data Element:

Validity of E...: No Edition

Deletion: Deletion Allowed

Attachments: ☐

Sets: ☐

Search Help:

Generated: ☐

**Hierarchies**

Hierarchies: No Hierarchy

Validity of Hi...: Hierarchy is Not Edition Dependent

**Reuse**

Reuse Activ...:

Structure/Ta...:

Field:

Struct. for X...:

**Key Assignment**

Type of Key Assign...: Key Cannot Be Changed; No

Number Range Obj...:

**Entity Texts**

Language-Depende...: ☐

Long Text: Length: 00

Medium Text: Length: 00

Short Text: Length: 00

**Source Fields for Texts**

Source Field Long T...:

Source Field Medium...:

Source Field Short T...:

4. Add the attributes of Entity Type **YMARC1** as shown in the screenshot below.

Save your settings.

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

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

Details: YMARC1

General		Attributes		Incoming Relationships	
* Attribute	Key ...	Desc...	Data Ele...	Curre...	R
ZZBATCH	<input type="checkbox"/>		XCHAR		
ZZCONTROL	<input type="checkbox"/>		CHAR_02		
ZZDISLS	<input type="checkbox"/>		DISLS		
ZZLVORM	<input type="checkbox"/>		LVOWK		

5. Details for **Entity Type** **YT438A** are shown in the screenshot below.

Ensure that the customer extension attributes consider the customer namespace for data dictionary fields.

The customer namespaces for **attributes** are YY\* and ZZ\*.

The customer namespaces for **Entity Types** are Y\* and Z\*.

The customer namespaces for **Data Models** are X\*, Y\* and Z\*.

Details: YT438A

General		Attributes		Incoming Relationships		Outgoing Relationships	
<b>General Data</b>				<b>Key Assignment</b>			
* Entity Type:	YT438A			Type of Key Assign...	Key Cannot Be Chang		
Description:	MRP Type			Number Range Obj...			
* SU Type:	3 - Not Changeable via MD			<b>Entity Texts</b>			
Data Element:	DISMM			Language-Depende...	<input type="checkbox"/>		
Validity of E...	No Edition			Long Text: Length:			
Deletion:	Deletion Allowed			Medium Text: Length:			
Attachments:	<input type="checkbox"/>			Short Text: Length:			
Sets:	<input type="checkbox"/>			<b>Source Fields for Texts</b>			
Search Help:	H_T438A			Source Field Long T...			
Generated:	<input type="checkbox"/>			Source Field Mediu...			
<b>Hierarchies</b>				Source Field Short ...			
Hierarchies:	No Hierarchy						
Validity of H...	Hierarchy is Not Edition De						
<b>Reuse</b>							
Reuse Activ...							
Structure/T...							
Field:							
Struct. for X...							

6. Details for *Entity Type* YT024D are shown in the screenshot.

Details: YT024D

General Attributes Incoming Relationships Outgoing Relationships

**General Data**

\* Entity Type: YT024D

Description: MRP controllers

\* SU Type: 3 - Not Changeable via MD

Data Element: DISPO

Validity of E... No Edition

Deletion: Deletion Allowed

Attachments: ☐

Sets: ☐

Search Help: HS\_T024D

Generated: ☐

**Hierarchies**

Hierarchies: No Hierarchy

Validity of H... Hierarchy is Not Edition De

**Reuse**

Reuse Activ...

Structure/T...

Field:

Struct. for X...

**Key Assignment**

Type of Key Assign... Key Cannot Be

Number Range Obje...

**Entity Texts**

Language-Depende... ☐

Long Text: Length:

Medium Text: Length:

Short Text: Length:

**Source Fields for Texts**

Source Field Long T...

Source Field Mediu...

Source Field Short ...

7. Details for *Entity Type* YT001W are shown in the screenshot.

Details: YT001W

General Attributes Incoming Relationships Outgoing Relationships

**General Data**

\* Entity Type: YT001W

Description: Plant

\* SU Type: 3 - Not Changeable via MD

Data Element: WERKS\_D

Validity of E... No Edition

Deletion: Deletion Allowed

Attachments: ☐

Sets: ☐

Search Help: H\_T001W

Generated: ☐

**Hierarchies**

Hierarchies: No Hierarchy

Validity of H... Hierarchy is Not Edition De

**Reuse**

Reuse Activ...

Structure/T...

Field:

Struct. for X...

**Key Assignment**

Type of Key Assign... Key Cannot Be Ch

Number Range Obje...

**Entity Texts**

Language-Depende... ☐

Long Text: Length:

Medium Text: Length:

Short Text: Length:

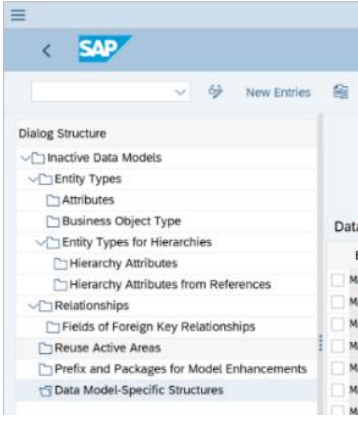
**Source Fields for Texts**

Source Field Long T...

Source Field Mediu...

Source Field Short ...

<div>8.</div> <div>Start Customizing for <b>Master Data Governance</b> (transaction MDGIMG).  Go to <b>General Settings -&gt; Data Modeling -&gt; Edit Data Model</b>.  Select data model MM.  Select <i>Relationships</i>.</div>	<div><div>Change View "Relationships": Overview</div><div><div><div>New Entries</div><div>Visualize Data Model</div></div><div><div>Dialog Structure</div><div><div>Inactive Data Models</div><div><div>Entity Types</div><div><div>Attributes</div><div>Business Object</div><div>Entity Types for</div><div><div>Hierarchy At</div><div>Hierarchy At</div></div><div>Relationships</div><div>Fields of Foreign</div><div>Reuse Active Areas</div></div></div></div></div><div><div>Data Model</div><div>MM</div></div><div><div>Relationships</div><table><thead><tr><th>From-Entity Type</th><th>Relationship</th><th>To-Entity Type</th><th>Relation. Type</th><th>Cardinality</th></tr></thead><tbody><tr><td>MATERIAL</td><td>MAT_MARC</td><td>YMARC</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_MARC1</td><td>YMARC1</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_MARC2</td><td>YMARC2</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_MARC3</td><td>YMARC3</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_MARC4</td><td>YMARC4</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_MARC6</td><td>YMARC6</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_RESP</td><td>ZKMRESP</td><td>Leading</td><td>1:1</td></tr><tr><td>MATERIAL</td><td>MAT_VAL</td><td>VALUATION</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_ZB01</td><td>ZBUPA01</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>MAT_ZB12</td><td>ZBUPA12</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>ZMAT_MBEW</td><td>ZKMMBEW</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>ZMVKE1</td><td>ZMVKE1</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>ZMVKE2</td><td>ZMVKE2</td><td>Leading</td><td>1 : N</td></tr><tr><td>MATERIAL</td><td>ZMVKEFLEX</td><td>ZMVKEFLEX</td><td>Leading</td><td>1 : N</td></tr><tr><td>QTEUNIT</td><td>QTEU_GTIN</td><td>MEAN_GTIN</td><td>Qualifying</td><td>1 : N</td></tr><tr><td>QTEUNIT</td><td>QTE_MSR</td><td>UNITOFMSR</td><td>Qualifying</td><td>1 : N</td></tr><tr><td>VALCNT</td><td>CNT_VAL</td><td>VALUATION</td><td>Qualifying</td><td>1 : N</td></tr><tr><td>YT001W</td><td>MARC_T001</td><td>YMARC1</td><td>Qualifying</td><td>1 : N</td></tr><tr><td>YT001W</td><td>T024_T001</td><td>YT024D</td><td>Leading</td><td>1 : N</td></tr><tr><td>YT024D</td><td>MARC_T024</td><td>YMARC1</td><td>Referencing</td><td>1 : N</td></tr><tr><td>YT438A</td><td>MARC_T438</td><td>YMARC1</td><td>Referencing</td><td>1 : N</td></tr></tbody></table></div></div></div>	From-Entity Type	Relationship	To-Entity Type	Relation. Type	Cardinality	MATERIAL	MAT_MARC	YMARC	Leading	1 : N	MATERIAL	MAT_MARC1	YMARC1	Leading	1 : N	MATERIAL	MAT_MARC2	YMARC2	Leading	1 : N	MATERIAL	MAT_MARC3	YMARC3	Leading	1 : N	MATERIAL	MAT_MARC4	YMARC4	Leading	1 : N	MATERIAL	MAT_MARC6	YMARC6	Leading	1 : N	MATERIAL	MAT_RESP	ZKMRESP	Leading	1:1	MATERIAL	MAT_VAL	VALUATION	Leading	1 : N	MATERIAL	MAT_ZB01	ZBUPA01	Leading	1 : N	MATERIAL	MAT_ZB12	ZBUPA12	Leading	1 : N	MATERIAL	ZMAT_MBEW	ZKMMBEW	Leading	1 : N	MATERIAL	ZMVKE1	ZMVKE1	Leading	1 : N	MATERIAL	ZMVKE2	ZMVKE2	Leading	1 : N	MATERIAL	ZMVKEFLEX	ZMVKEFLEX	Leading	1 : N	QTEUNIT	QTEU_GTIN	MEAN_GTIN	Qualifying	1 : N	QTEUNIT	QTE_MSR	UNITOFMSR	Qualifying	1 : N	VALCNT	CNT_VAL	VALUATION	Qualifying	1 : N	YT001W	MARC_T001	YMARC1	Qualifying	1 : N	YT001W	T024_T001	YT024D	Leading	1 : N	YT024D	MARC_T024	YMARC1	Referencing	1 : N	YT438A	MARC_T438	YMARC1	Referencing	1 : N
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<div>9.</div> <div>Activate the extended data model.</div>	<div><div>Change View "Attributes": Overview</div><div><div><div>New Entries</div><div>Visualize Data Model</div><div>Visualize Activated Data Model</div></div><div><div>Dialog Structure</div><div><div>Data Models</div><div><div>Entity Types</div><div>Attributes</div></div></div><div><div>Data Model</div><div>MM</div></div><div><div>Entity Type</div><div>MATERIAL</div></div></div></div></div>																																																																																																														
<div>10.</div> <div>Make change request adjustments after creating the SMT mapping.  Link to chapter: <i>Adjust Staging area of Linked Change Requests</i></div>	<div><div>Messages have been issued</div><div><div>T... Message Text</div><div>Change requests must be adjusted because data model MM has been modified</div></div></div>																																																																																																														
<div>11.</div> <div>After activation information messages are displayed.</div>	<div><div>Messages have been issued</div><div><div>Type Message Text</div><div><div>Data model MM: structures and DataSources successfully generated</div><div>Please open node 'Data Model-Specific Structures' and save.</div></div></div></div>																																																																																																														

12.	Following the instruction given in the pop-up navigate to <i>Data Model-Specific Structures</i> and press <b>Save</b> .	
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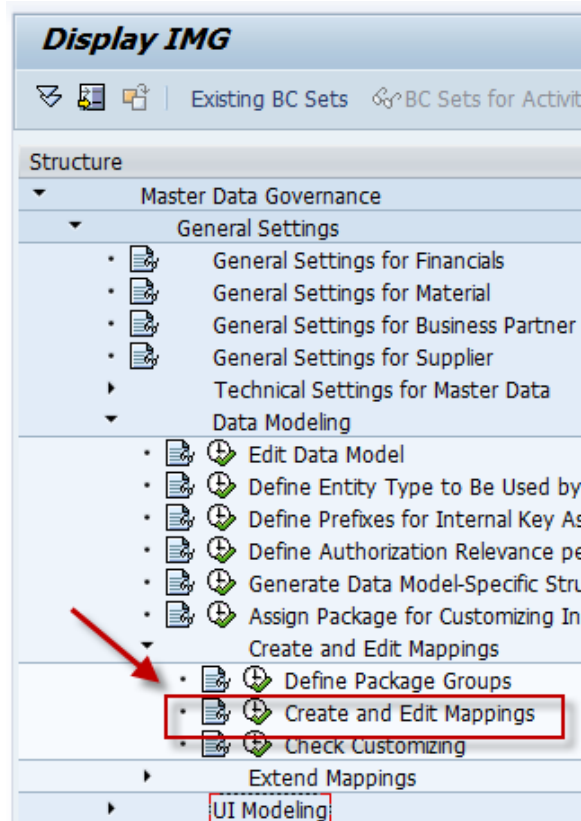
## 5 SMT Mapping

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

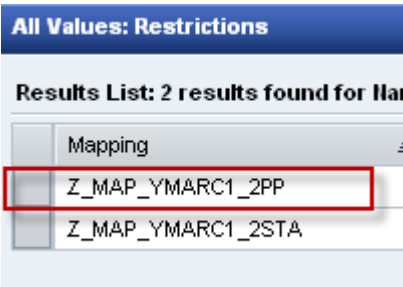
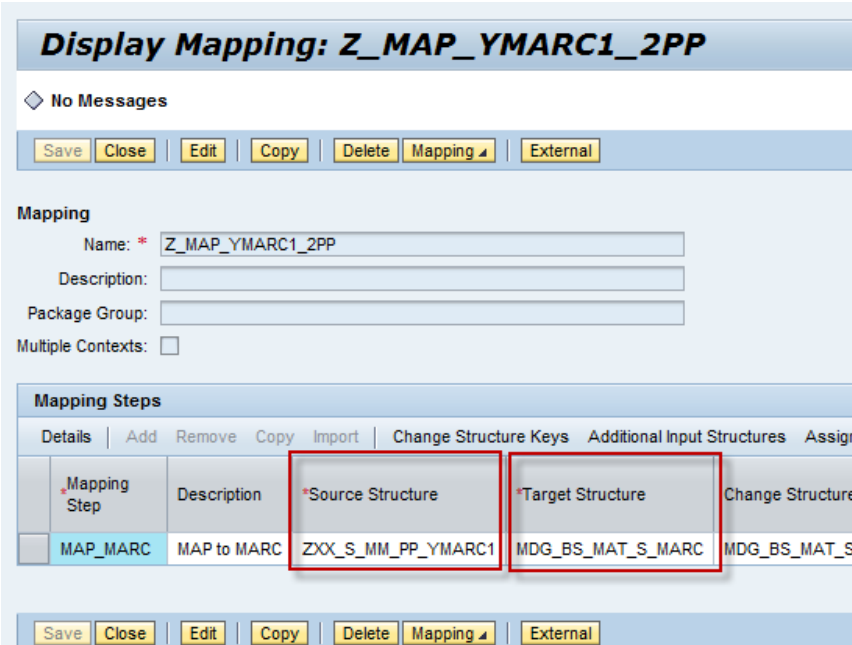
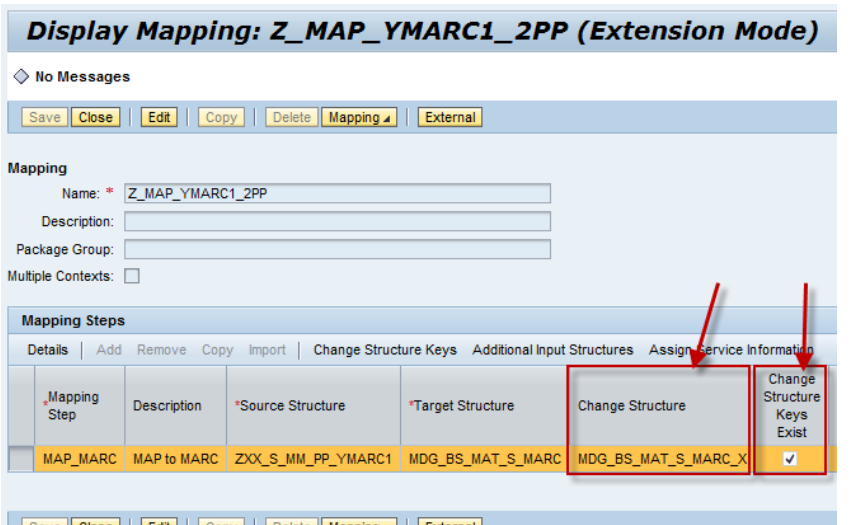
### Important

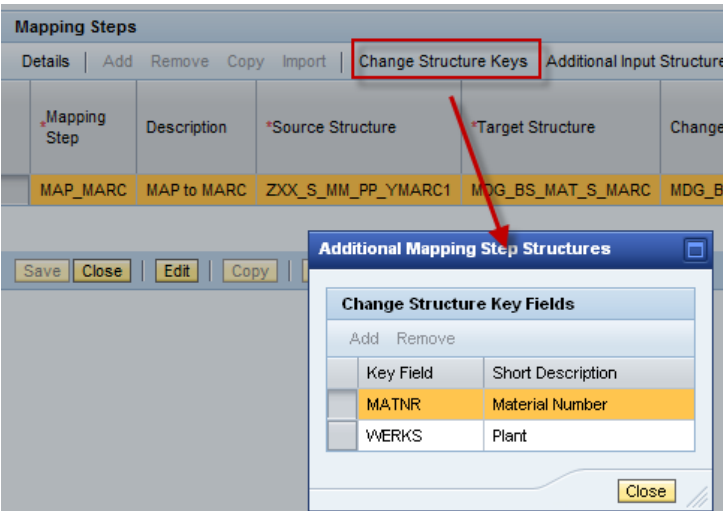
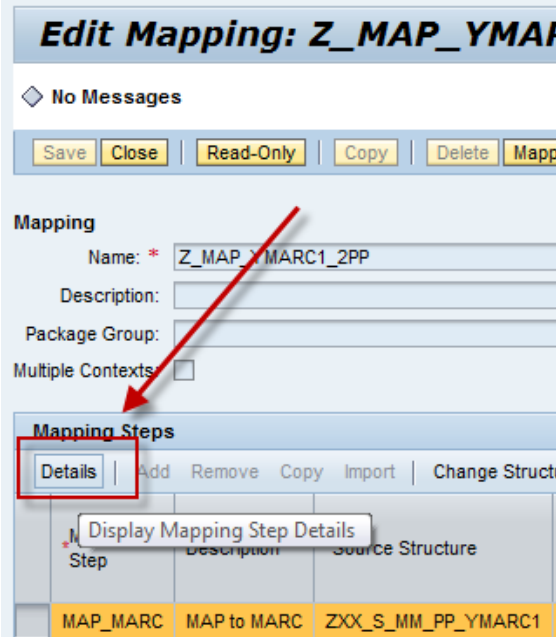
When the mappings are saved, the system generates the corresponding coding. Make sure that all relevant structures are ready before you start.

### 5.1 SMT Mapping – Staging to Primary Persistence

1.	<p>Log into system for cross-client maintenance.</p> <p>Start Customizing for <b>Master Data Governance</b> (transaction MDGIMG).</p> <p>Go to <b>General Settings -&gt; Data Modeling -&gt; Create and Edit Mappings -&gt; Create and Edit Mappings</b></p> <p><b>Note:</b> For new Entity Types it is recommended to create a new mapping. When extending existing Entity Types it is recommended to extend the existing mapping.</p>	
----	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------



2.	<p>Create a new mapping for transferring data from the MDG staging area to the active area.</p> <p>Call the new mapping Z_MAP_YMARC1_2PP.</p>	
3.	<p>Add a mapping step MAP_MARC.</p> <p>Assign Source Structure ZXX_S_MM_PP_YMARC1.</p> <p>Assign Target Structure MDG_BS_MAT_S_MARC.</p>	
4.	<p>Assign Change Structure MDG_BS_MAT_S_MARC_X.</p> <p>Select <b>Change Structure Keys Exist</b>.</p>	

5.	Assign change structure key MATNR.	
6.	<p>Select mapping step MAP_MARC and choose the <b>Details</b> pushbutton.</p> <p>Map the fields as shown in the next screenshot.</p>	

7.

## Display Mapping Step: MAP\_MARC

Person

Mapping Z\_MAP\_YMARC1\_2PP &gt; Mapping Step MAP\_MARC

Mapping Description      Package Group

No Messages

Save   Close   Edit   Copy   Delete   Mapping   External

You

Field Checks

Transformations

Add   Remove   Copy   Move Up   Move Down

Order	*Transformation Type	Conditional	Chain to Preceding	Switch	Description
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>		

Details for Transformation Order 00001

Field Mapping

Add   Remove

*FIELD	Source Structure	Source Field	Fixed Value	Conversion Class	Reference Type	Field type	Data Type	Number of Characters	Decimal Places	Description
DISLS	ZXX_S_MM_PP_YMARC1	ZZDISLS			<input type="checkbox"/>	DISLS	CHAR	2		Lot size (materials planning)
DISMM	ZXX_S_MM_PP_YMARC1	MARC_T438			<input type="checkbox"/>	DISMM	CHAR	2		MRP Type
DISPO	ZXX_S_MM_PP_YMARC1	MARC_T024			<input type="checkbox"/>	DISPO	CHAR	3		MRP Controller (Materials Planner)
LVORM	ZXX_S_MM_PP_YMARC1	ZZLVORM			<input type="checkbox"/>	LVOWK	CHAR	1		Flag Material for Deletion at Plant L
MATNR	ZXX_S_MM_PP_YMARC1	MATERIAL			<input type="checkbox"/>	MATNR	CHAR	18		Material Number

Tree structures are available to the user to automatically Assign or Map structure fields to a Field Check, a Condition, a Complex Transformation, or a Mapping using the appropriate button or drag and drop.

Target Structure

Assign

Name: MDG\_BS\_MAT\_S\_MARC

Target Structure

Sort: Original Field Order

Name	Is Used
MDG_BS_MAT_S_MARC	<input type="checkbox"/>

Map

Source Structure

Assign

Name: ZXX\_S\_MM\_PP\_YMAF

Source Structure

Sort: Original Field Order

Name	Is Used
ZXX_S_MM_PP_YMARC1	<input type="checkbox"/>
MATERIAL	<input checked="" type="checkbox"/>
YT001W	<input checked="" type="checkbox"/>
MARC_T024	<input checked="" type="checkbox"/>
MARC_T438	<input checked="" type="checkbox"/>
ZZBATCH	<input checked="" type="checkbox"/>
ZZCONTROL	<input type="checkbox"/>
ZZDISLS	<input checked="" type="checkbox"/>
ZZLVORM	<input checked="" type="checkbox"/>

8. Save your changes

## 5.2 SMT Mapping – Primary Persistence to Staging

9. Log into system for cross-client maintenance.
- Start Customizing for **Master Data Governance** (transaction MDGIMG).
- Go to **General Settings -> Data Modeling -> Create and Edit Mappings -> Create and Edit Mappings**
- Create a new mapping for transferring data from the MDG staging to the active area.
- Call the new mapping Z\_MAP\_YMARC1\_2STA.

**All Values: Restrictions**

**Results List: 2 results found for Har**

<input type="checkbox"/>	Mapping
<input type="checkbox"/>	Z_MAP_YMARC1_2PP
<input type="checkbox"/>	Z_MAP_YMARC1_2STA

10. Add a mapping step MAP\_YMARC1.
- Assign Source Structure MDG\_BS\_MAT\_S\_MARC.
- Assign Target Structure ZXX\_S\_MM\_PP\_YMARC1.
- Select mapping step MAP\_MARC and press the Details button.
- Map the fields as shown in the next screenshot

**Display Mapping: Z\_MAP\_YMARC1\_2STA**

◆ No Messages

**Mapping**

Name: \* Z\_MAP\_YMARC1\_2STA

Description:

Package Group:

Multiple Contexts: ☐

**Mapping Steps**

Details | Add | Remove | Copy | Import | Change Structure Keys | Additional Input Structures | Assign

*Mapping Step	Description	*Source Structure	*Target Structure	Change Structure
MAP_YMARC1	MAP to YMARC	MDG_BS_MAT_S_MARC	ZXX_S_MM_PP_YMARC1	

11.

**Display Mapping Step: MAP\_YMARC1**

Person

Mapping Z\_MAP\_YMARC1\_2STA > Mapping Step MAP\_YMARC1  
Mapping Description Package Group

No Messages

Save Close Edit Copy Delete Mapping External You

Field Checks Transformations

Add Remove Copy Move Up Move Down

Order	*Transformation Type	Conditional	Chain to Preceding	Switch	Description
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>		

Details for Transformation Order 00001

Field Mapping

Add Remove

*FIELD	Source Structure	Source Field	Fixed Value	Conversion Class	Reference Type	Field type	Data Type	Number of Characters	Decimal Places	Description
MARC_T024	MDG_BS_MAT_S_MARC	DISPO			<input type="checkbox"/>	DISPO	CHAR	3		MRP Controller (Materials Planner)
MARC_T438	MDG_BS_MAT_S_MARC	DISMM			<input type="checkbox"/>	DISMM	CHAR	2		MRP Type
MATERIAL	MDG_BS_MAT_S_MARC	MATNR			<input type="checkbox"/>	MATNR	CHAR	18		Material Number
YT001W	MDG_BS_MAT_S_MARC	WERKS			<input type="checkbox"/>	WERKS_D	CHAR	4		Plant
ZZBATCH	MDG_BS_MAT_S_MARC	XCHAR			<input type="checkbox"/>	XCHAR	CHAR	1		Batch management indicator (inter

Tree structures are available to the user to automatically Assign or Map structure fields to a Field Check, a Condition, a Complex Transformation, or a Mapping using the appropriate button or drag and drop.

**Target Structure**  
Assign  
Name: ZXX\_S\_MM\_PP\_YMARC1  
Sort: Original Field Order

Name	Is Used
▼ ZXX_S_MM_PP_YMARC1	<input type="checkbox"/>
▪ MATERIAL	<input checked="" type="checkbox"/>
▪ YT001W	<input checked="" type="checkbox"/>
▪ MARC_T024	<input checked="" type="checkbox"/>
▪ MARC_T438	<input checked="" type="checkbox"/>
▪ ZZBATCH	<input checked="" type="checkbox"/>
▪ ZZCONTROL	<input type="checkbox"/>
▪ ZZDISLS	<input checked="" type="checkbox"/>
▪ ZZLVORM	<input checked="" type="checkbox"/>

**Source Structure**  
Assign  
Name: MDG\_BS\_MAT\_S\_M/▼  
Sort: Original Field Order

Name	Is Used
▶ MDG_BS_MAT_S_MARC	<input type="checkbox"/>

Map

12. Save your changes

**5.3 SMT Mapping – Assign Mapping to Data Model MM**

13. Log into system for cross-client maintenance.

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

Select Data Model MM.

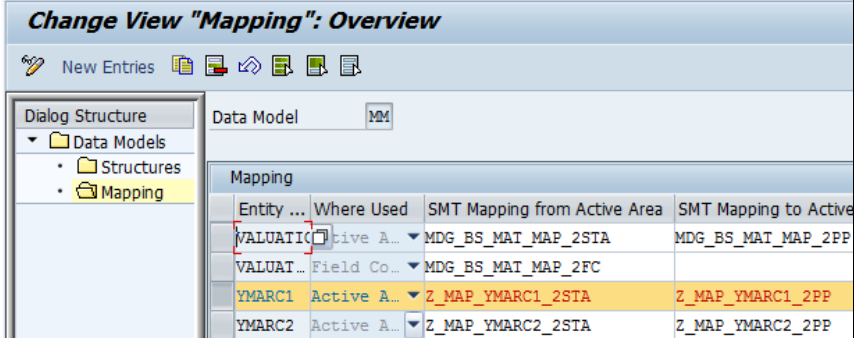
Double click on **Mapping**.

**Change View "Data Models": Overview**  
New Entries Check Generate Structure

**Dialog Structure**  
▼ Data Models  
▪ Structures  
▪ Mapping

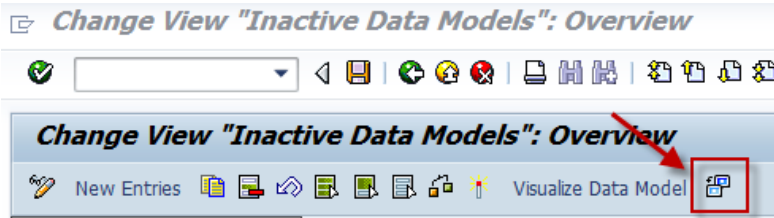
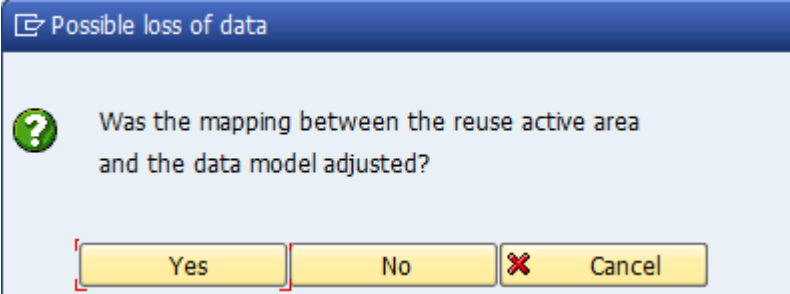
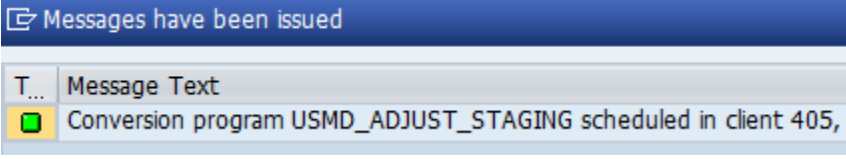
**Data Models**

Data Model	Description (medium)
0G	Chart of Accounts
BP	Business Partner
MM	Material Maintenance

14.	Enter the two SMT mappings for <b>Entity Type</b> YMARC1 as shown.	

## 6 Adjust Staging area of Linked Change Requests

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

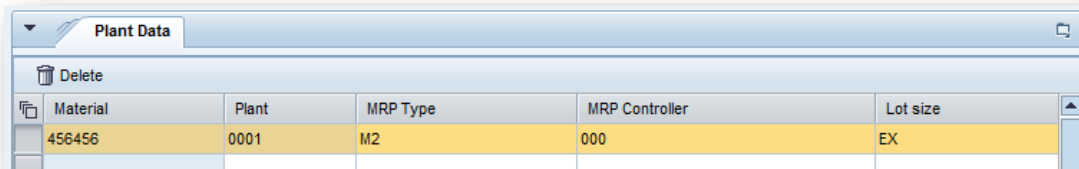
15.	<p>Start Customizing for <b>Master Data Governance</b> (transaction MDGIMG).</p> <p>Go to <b>General Settings -&gt; Data Modeling -&gt; Edit Data Model</b>.</p> <p>Select data model MM.</p> <p>Double click on <b>Entity Types</b>.</p> <p>Choose the pushbutton <b>Adjust staging area of linked change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

## 7 Extending the UI configuration

See also How To Guide: [Extend Master Data Governance Material User Interface.](#)

## 7.1 Create Custom List-UIBB

This section describes how you create a List-UIBB to display the `MARC` attributes in a table. The end result looks similar to the screenshot below.

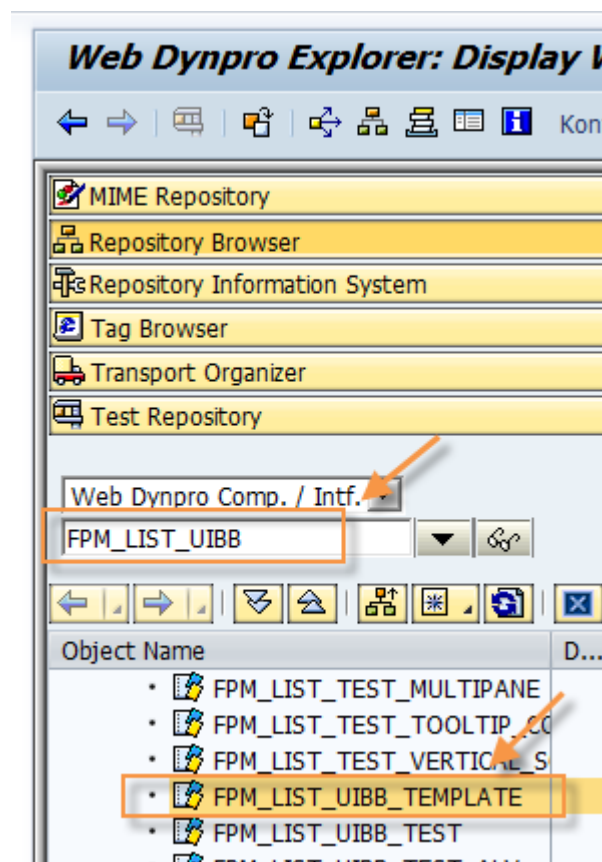


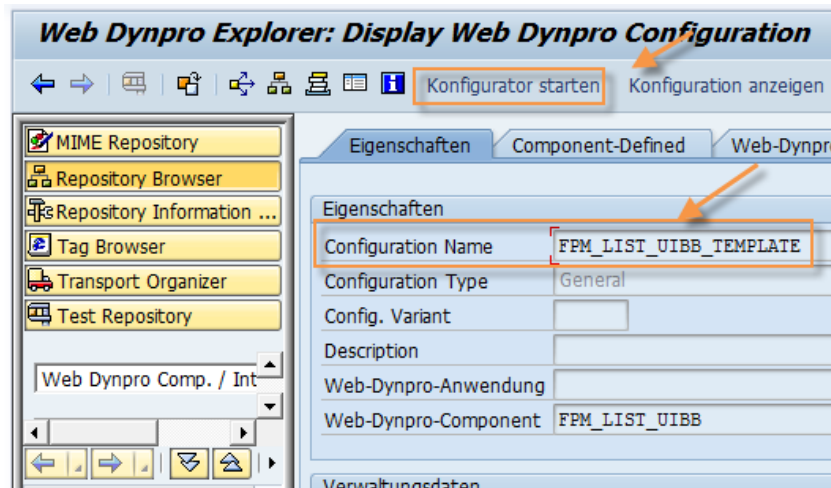
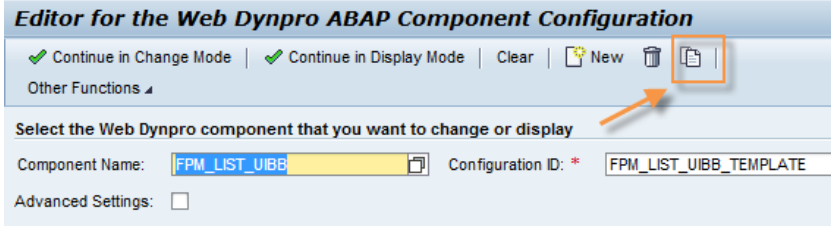
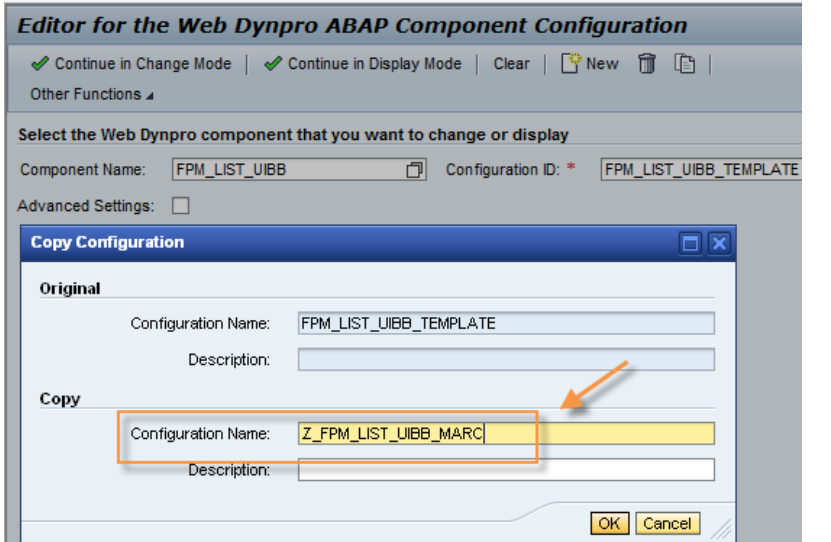
Material	Plant	MRP Type	MRP Controller	Lot size
456456	0001	M2	000	EX

You create the List-UIBB in two steps. First you create a copy of the List-UIBB template, next you enhance the copy to display your `MARC` attributes.

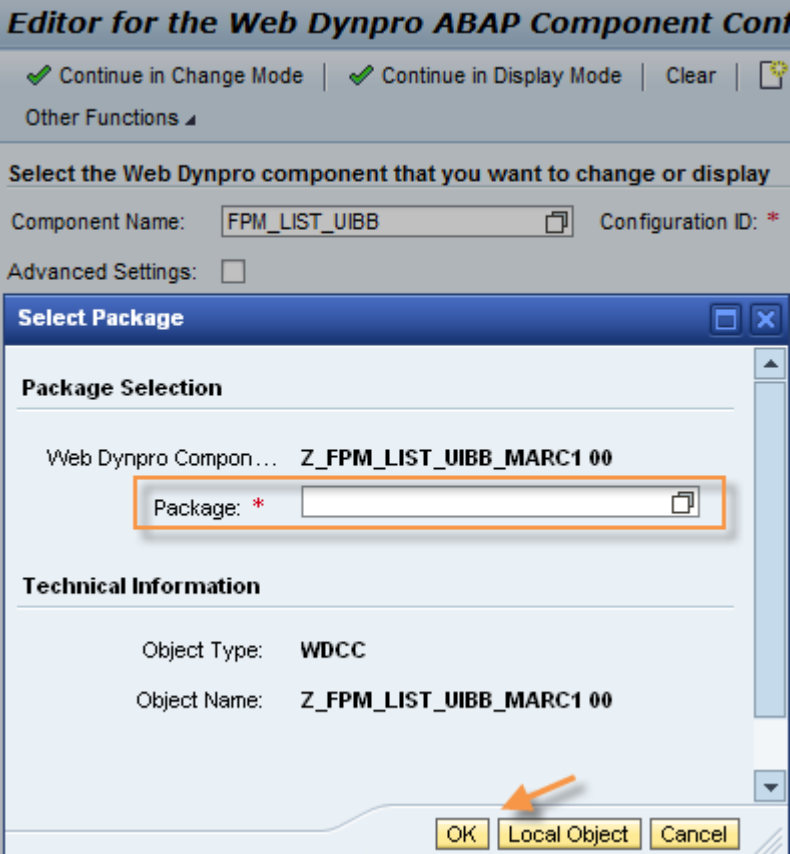
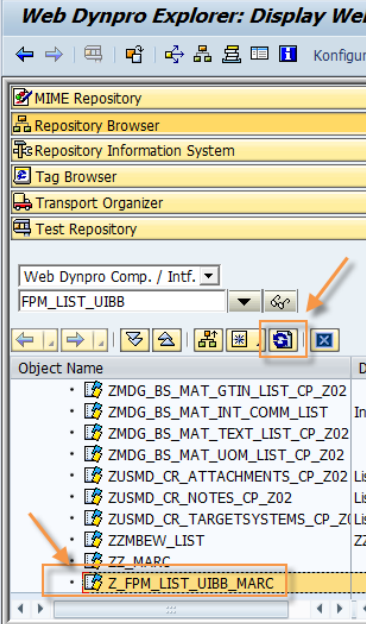
### 7.1.1 Copy Template List-UIBB

18. Start transaction `SE80`.  
In the drop down select Web Dynpro Comp. / Intf.  
In the input field enter `FPM_LIST_UIBB` and press the Display button.  
Below the object name expand the tree node called **Component Configurations**.  
Double click the component configuration `FPM_LIST_UIBB_TEMPLATE`.

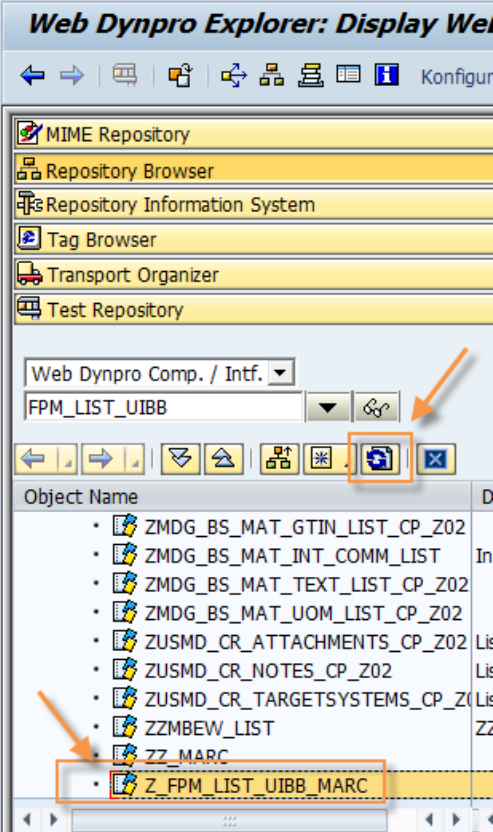
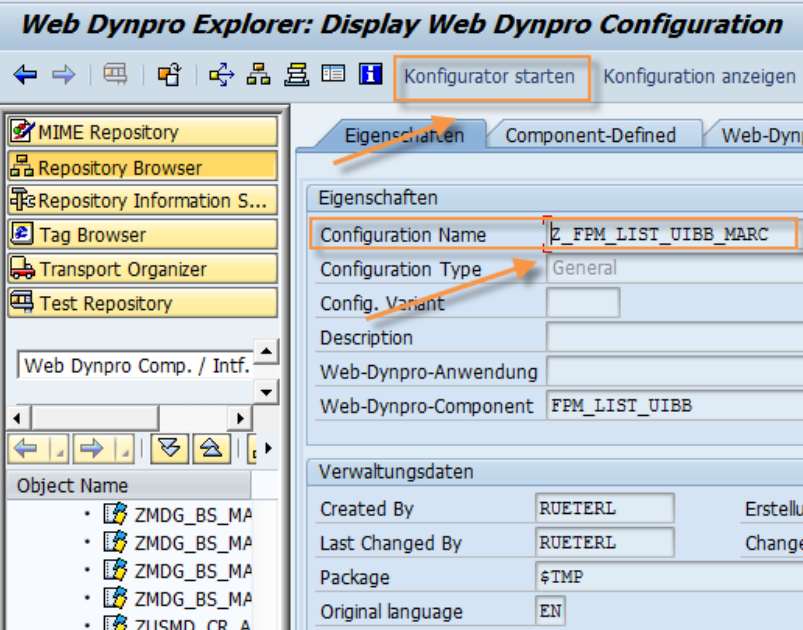


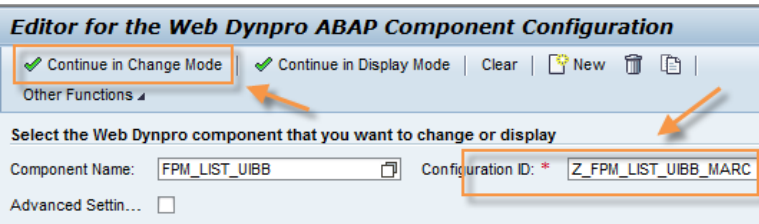
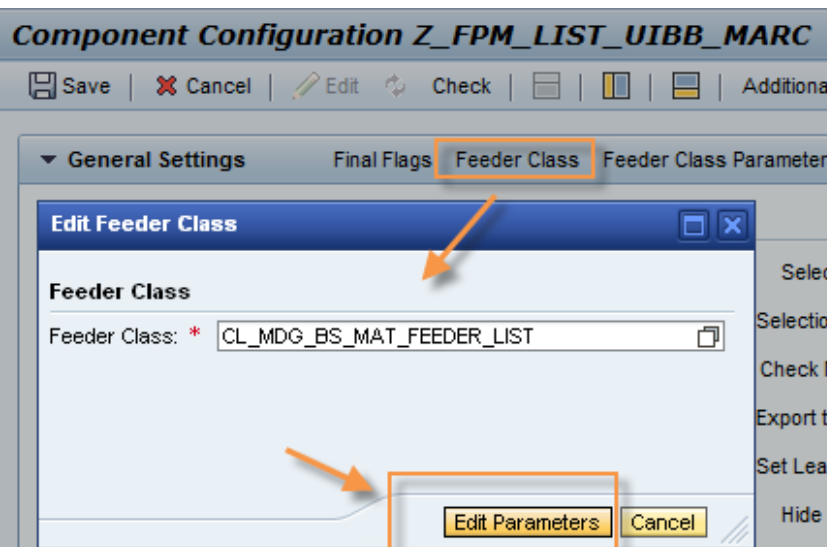
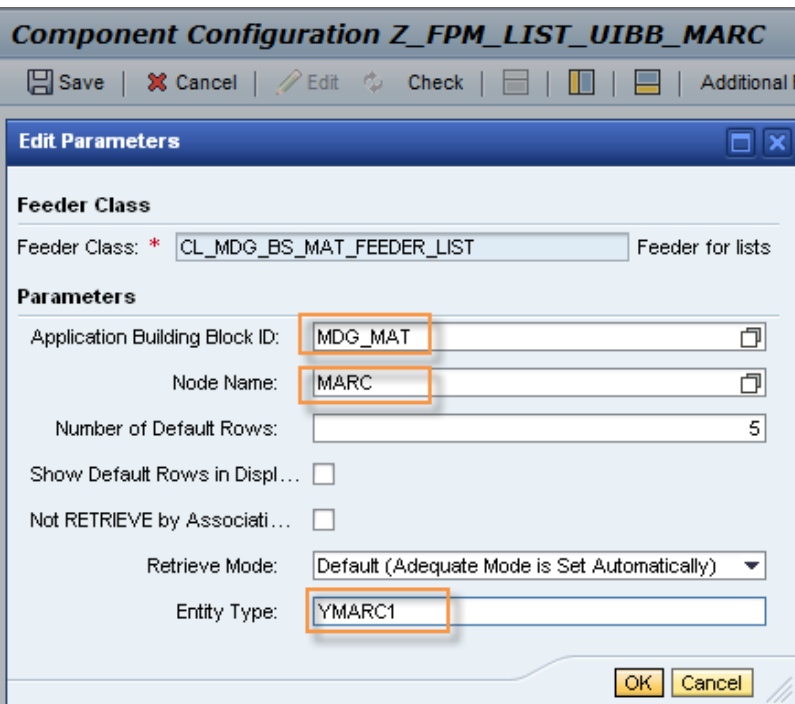
19.	Press the <b>Start Configurator</b> pushbutton.	 <p><b>Web Dynpro Explorer: Display Web Dynpro Configuration</b></p> <p>Konfigurator starten Konfiguration anzeigen</p> <p>MIME Repository Repository Browser Repository Information ... Tag Browser Transport Organizer Test Repository</p> <p>Web Dynpro Comp. / Int</p> <p>Eigenschaften Component-Defined Web-Dynpro</p> <p>Eigenschaften</p> <p>Configuration Name FPM_LIST_UIBB_TEMPLATE</p> <p>Configuration Type General</p> <p>Config. Variant</p> <p>Description</p> <p>Web-Dynpro-Anwendung</p> <p>Web-Dynpro-Component FPM_LIST_UIBB</p> <p>Verwaltungsdaten</p>
20.	In the web browser, choose the <b>Copy</b> pushbutton.	 <p><b>Editor for the Web Dynpro ABAP Component Configuration</b></p> <p>Continue in Change Mode Continue in Display Mode Clear New Copy</p> <p>Other Functions</p> <p>Select the Web Dynpro component that you want to change or display</p> <p>Component Name: FPM_LIST_UIBB Configuration ID: * FPM_LIST_UIBB_TEMPLATE</p> <p>Advanced Settings: <input type="checkbox"/></p>
21.	Enter a <b>Configuration Name</b> as shown in the screenshot.	 <p><b>Editor for the Web Dynpro ABAP Component Configuration</b></p> <p>Continue in Change Mode Continue in Display Mode Clear New Copy</p> <p>Other Functions</p> <p>Select the Web Dynpro component that you want to change or display</p> <p>Component Name: FPM_LIST_UIBB Configuration ID: * FPM_LIST_UIBB_TEMPLATE</p> <p>Advanced Settings: <input type="checkbox"/></p> <p><b>Copy Configuration</b></p> <p>Original</p> <p>Configuration Name: FPM_LIST_UIBB_TEMPLATE</p> <p>Description:</p> <p>Copy</p> <p>Configuration Name: Z_FPM_LIST_UIBB_MARC</p> <p>Description:</p> <p>OK Cancel</p>

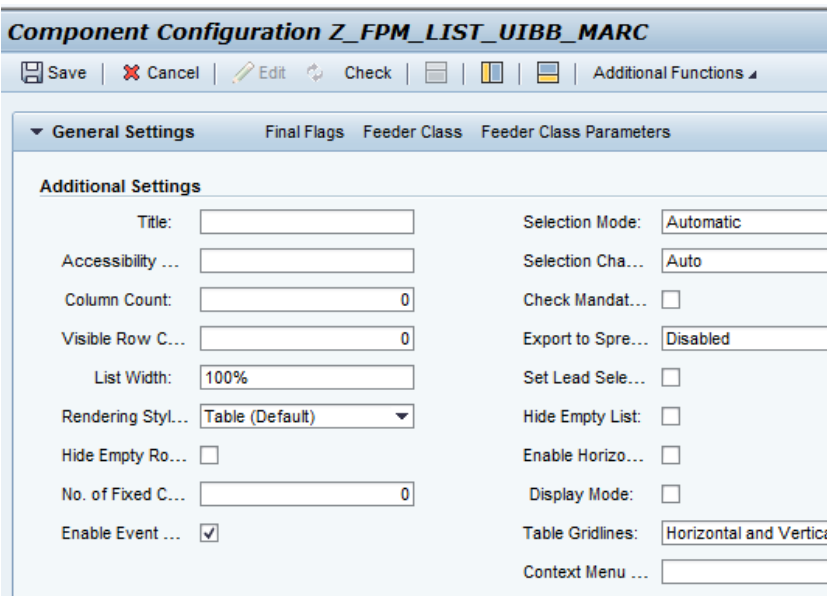
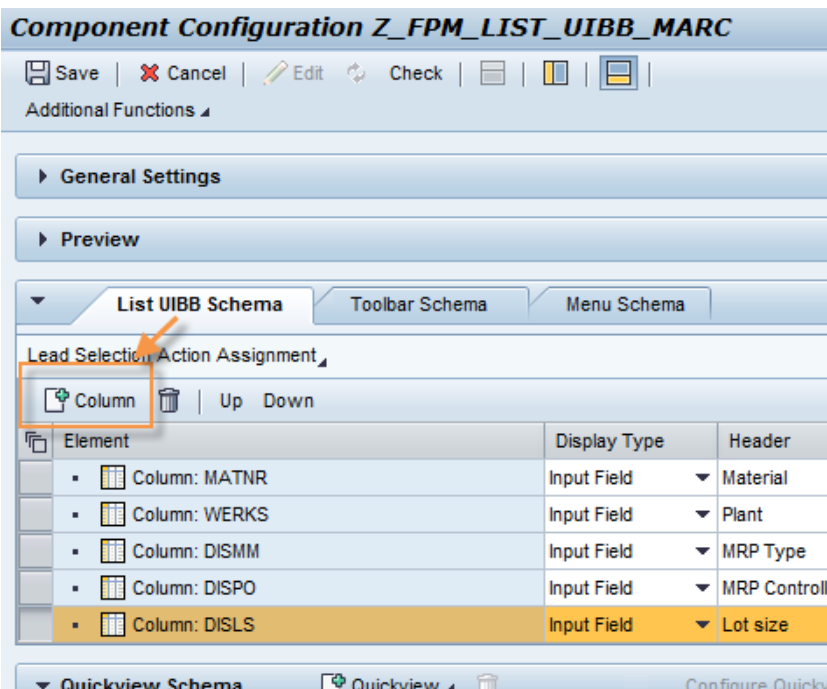


<p>22. Assign a <b>Package</b> or choose the <b>Local Object</b> pushbutton.</p>	
<p>23. Back in the SAP GUI, refresh the object list.  Confirm that your new configuration is there.</p>	

## 7.1.2 Adapt Custom List-UIBB

<p>24. Double click on the new configuration (for example Z_FPM_LIST_UIBB_MARC).</p>	 <p>The screenshot shows the 'Web Dynpro Explorer: Display Web Dynpro Component' window. On the left, a list of components is displayed, including 'Z_FPM_LIST_UIBB_MARC', which is highlighted with a red box and an arrow. In the center, the 'Web Dynpro Comp. / Intf.' dropdown is set to 'FPM_LIST_UIBB'. On the right, a toolbar contains a button with a double-click icon, also highlighted with a red box and an arrow.</p>
<p>25. Press the <b>Start Configurator</b> pushbutton.</p>	 <p>The screenshot shows the 'Web Dynpro Explorer: Display Web Dynpro Configuration' window. On the left, the same list of components is shown. On the right, the 'Konfigurator starten' button is highlighted with a red box and an arrow. Below it, the 'Eigenschaften' (Properties) tab is active, showing details for the configuration 'Z_FPM_LIST_UIBB_MARC'. The 'Configuration Name' field is highlighted with a red box and an arrow. Other fields include 'Configuration Type' (General), 'Config. Variant' (empty), 'Description' (empty), 'Web-Dynpro-Anwendung' (empty), 'Web-Dynpro-Component' (FPM_LIST_UIBB), 'Created By' (RUETERL), 'Last Changed By' (RUETERL), 'Package' (TMP), and 'Original language' (EN).</p>

26.	In the web browser, choose the <b>Continue in Change Mode</b> pushbutton.	
27.	Choose the pushbutton <b>Feeder Class</b> .  In the input field enter CL_MDG_BS_MAT_FEEDER_LIST and choose the <b>Edit Parameters</b> pushbutton.	
28.	Enter the parameters in the input fields as shown in the screenshot.	

29.	In the <b>General Settings</b> section of the UIBB configuration enter the details as shown in the screenshot.																			
30.	Add your MARC attributes the table by choosing the <b>Column</b> pushbutton and selecting the attributes from the list.	 <table border="1" data-bbox="580 1196 1394 1420"> <thead> <tr> <th>Element</th> <th>Display Type</th> <th>Header</th> </tr> </thead> <tbody> <tr> <td>Column: MATNR</td> <td>Input Field</td> <td>Material</td> </tr> <tr> <td>Column: WERKS</td> <td>Input Field</td> <td>Plant</td> </tr> <tr> <td>Column: DISMM</td> <td>Input Field</td> <td>MRP Type</td> </tr> <tr> <td>Column: DISPO</td> <td>Input Field</td> <td>MRP Controlle</td> </tr> <tr> <td>Column: DISLS</td> <td>Input Field</td> <td>Lot size</td> </tr> </tbody> </table>	Element	Display Type	Header	Column: MATNR	Input Field	Material	Column: WERKS	Input Field	Plant	Column: DISMM	Input Field	MRP Type	Column: DISPO	Input Field	MRP Controlle	Column: DISLS	Input Field	Lot size
Element	Display Type	Header																		
Column: MATNR	Input Field	Material																		
Column: WERKS	Input Field	Plant																		
Column: DISMM	Input Field	MRP Type																		
Column: DISPO	Input Field	MRP Controlle																		
Column: DISLS	Input Field	Lot size																		

31. Choose the **Attributes-** icon as shown in the screenshot to display the attribute details box at the bottom of the screen.

For each element in the table, set the attributes **FPM Event ID** and **Suggest Values** as shown in the screenshot.

**Component Configuration Z\_FPM\_LIST\_UIBB\_MARC**

Save | Cancel | Edit | Check | Additional Fun

General Settings

Preview

List UIBB Schema | Toolbar Schema | Menu Schema

Lead Selection Action Assignment

Element	Display ...	Header	Index	Tooltip
Column: MATNR	Input Fi...	Material	1	Material
Column: WERKS	Input Fi...	Plant	2	
Column: DISMM	Input Fi...	MRP Type	3	

Attributes of Column: DISMM

**Standard Attributes**

Display Type: Input Field | Tooltip: ☐

Index: 3 | Header Tooltip: ☐

Header: MRP Type | Context Menu ID: ☐

UI Element Width:

**Display Type Dependent Properties**

Alignment: Automatic | Password: ☐

Filter Method: prefixSearch | Suggest Values: ☒

**Action Assignment**

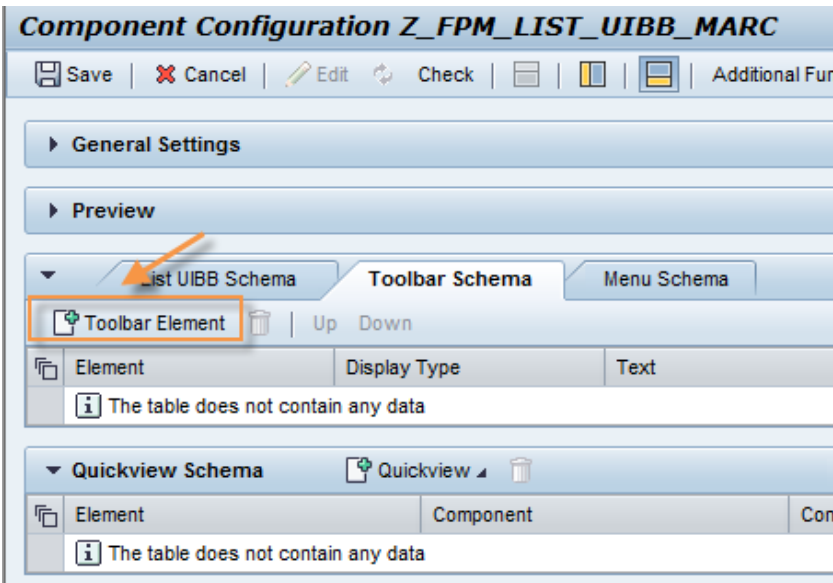
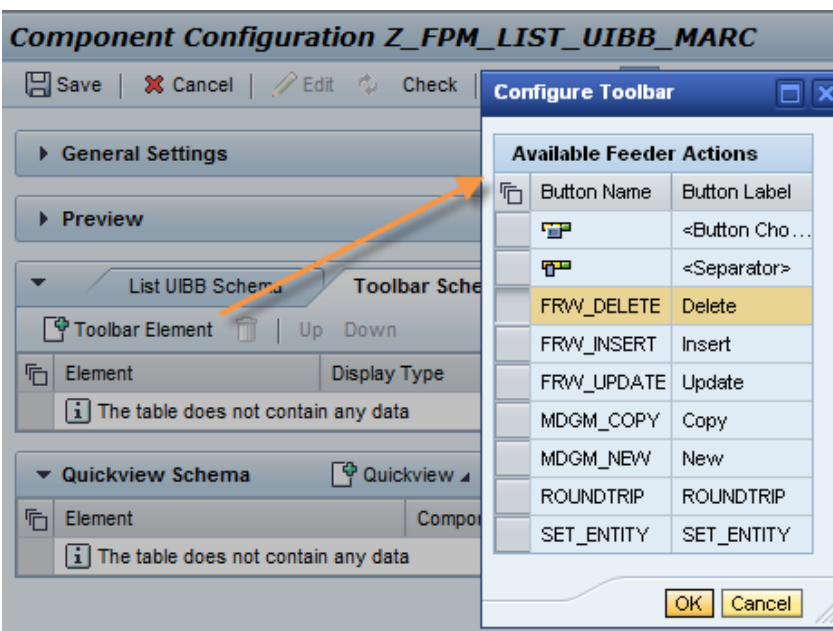
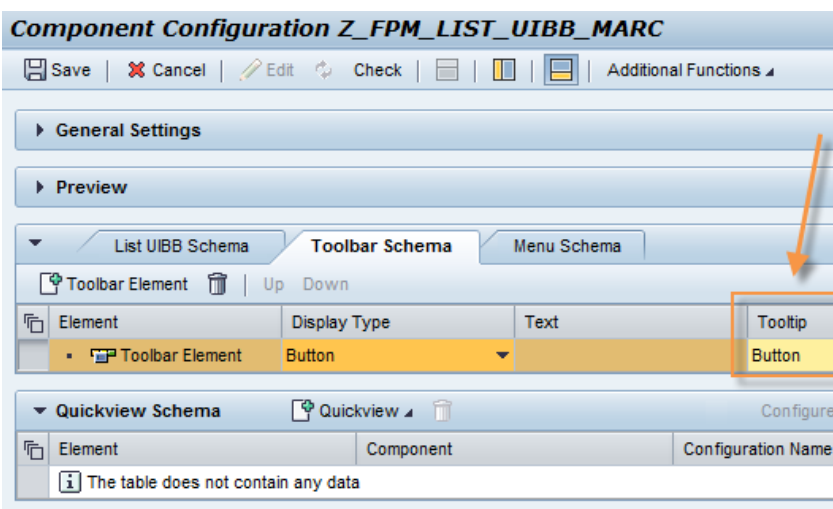
FPM Event ID: ROUNDTrip (ROUNDTrip)

### 7.1.3 Information Only: Adding a Delete button to the Plant Data Table

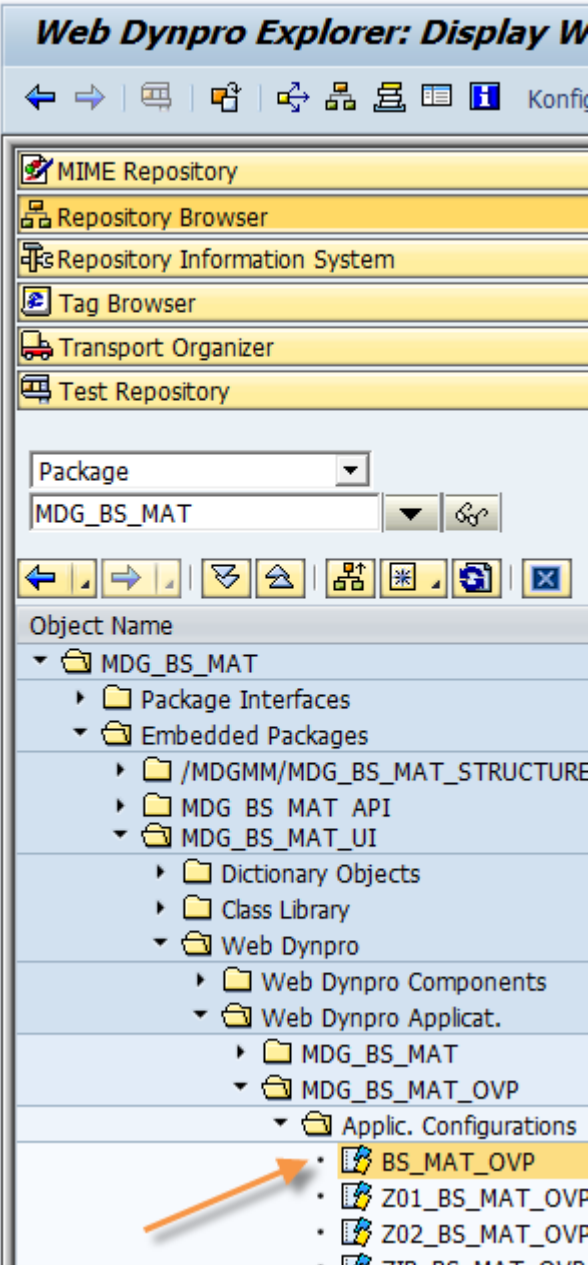
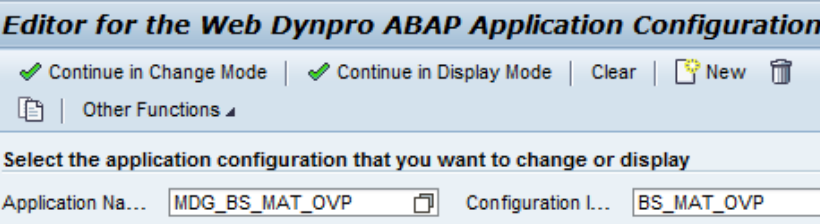
You may want to have a Delete-button to remove lines from the Plant Data table. The screenshots below show the UI-configuration steps required to display the Delete-button on the Plant Data table.

It is not sufficient however to have the button, but the feeder class must also be able to remove the relevant data from the change request. Therefore, it is recommended to create your own feeder class that inherits from feeder class CL\_MDG\_BS\_MAT\_FEEDER\_LIST and handles the Delete-event.

Only the UI changes are documented in this guide, the extension of the feeder class is not shown in this guide.

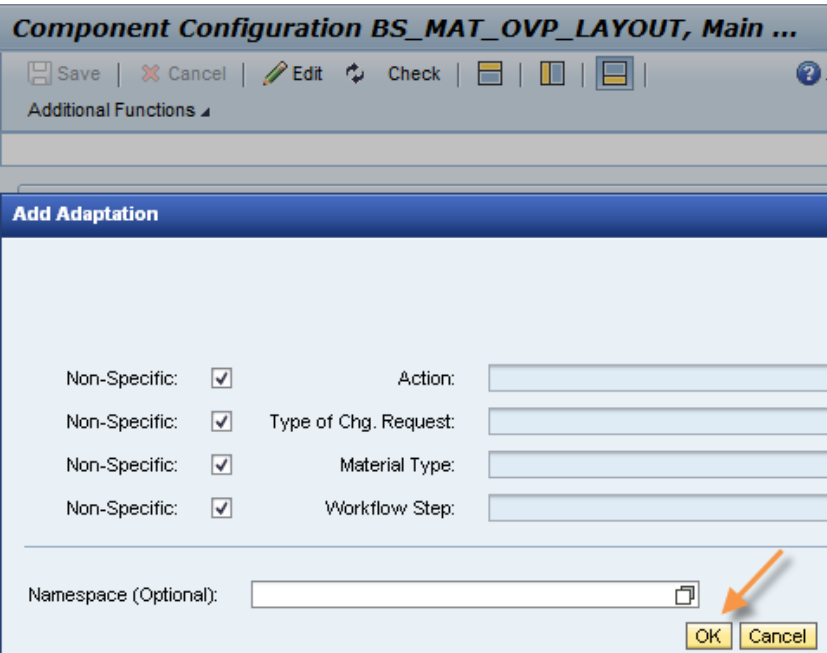
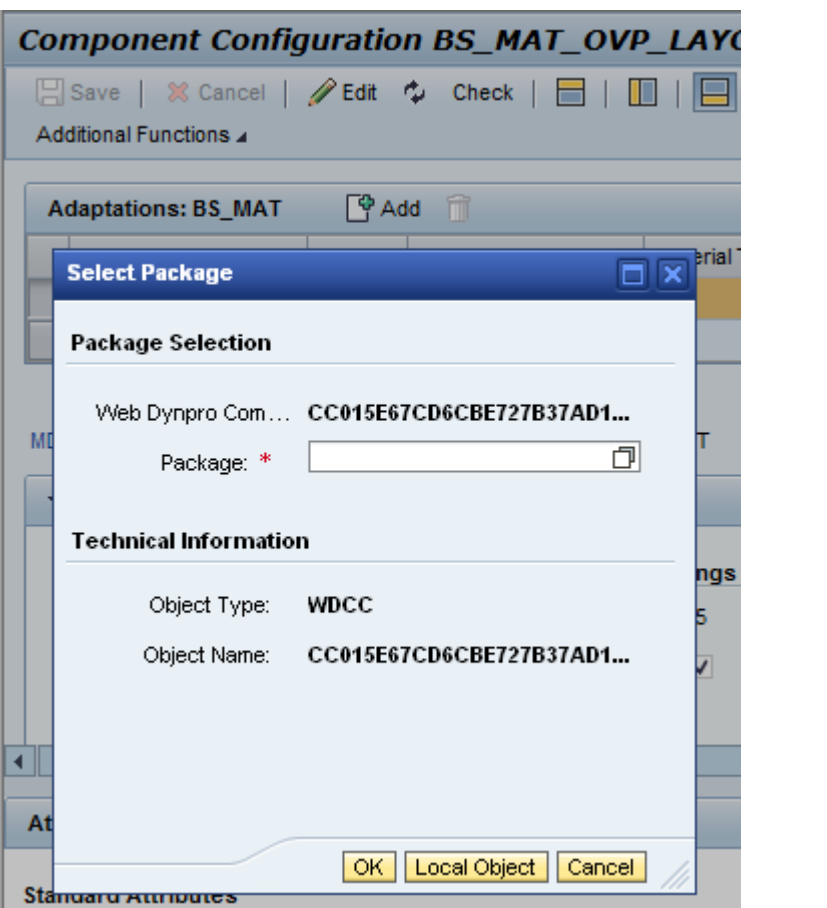
32.	<p>To allow deleting of plant data from the table you can add a <b>Delete</b> toolbar element in this step.</p> <p>Open the <b>Toolbar Schema</b> tab and choose the <b>Toolbar Element</b> pushbutton.</p>	
33.	<p>Select the FRW_DELETE line and choose <b>OK</b>.</p>	
34.	<p>Enter a Tooltip name for the button, for instance "Delete".</p>	

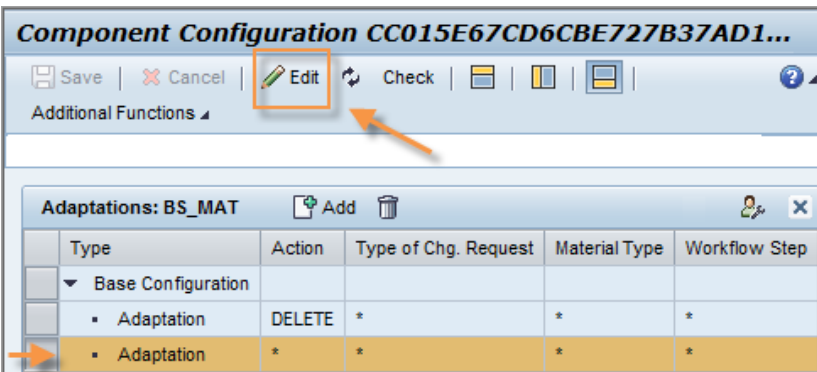
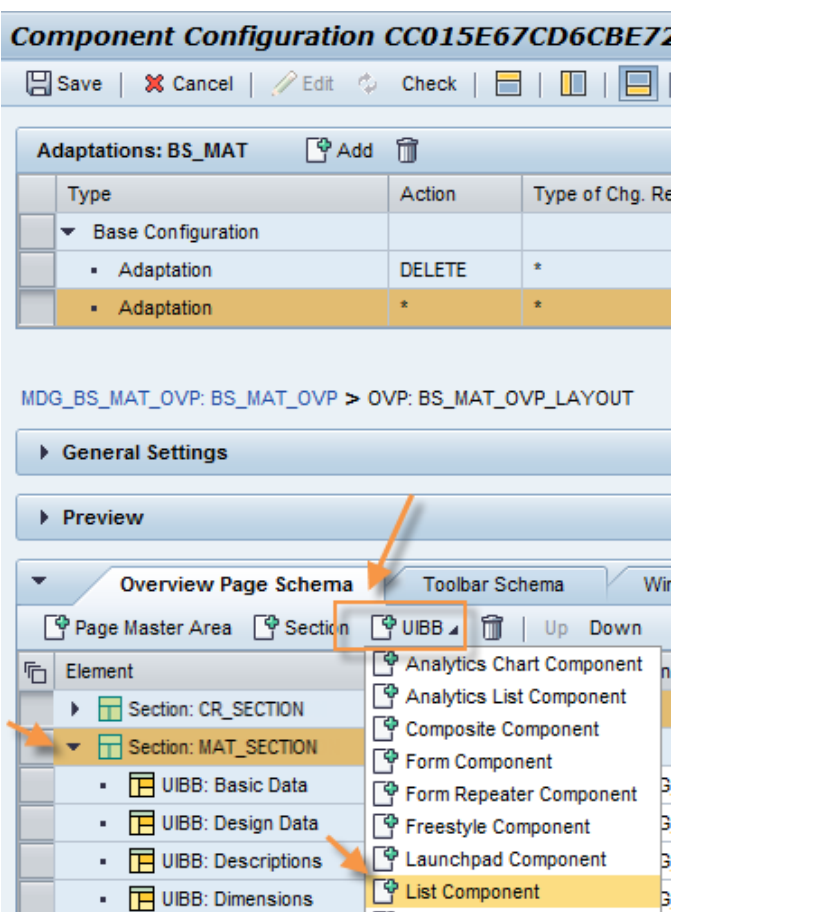
## 7.2 Add a Custom List-UIBB as a Context-Based Adaptation

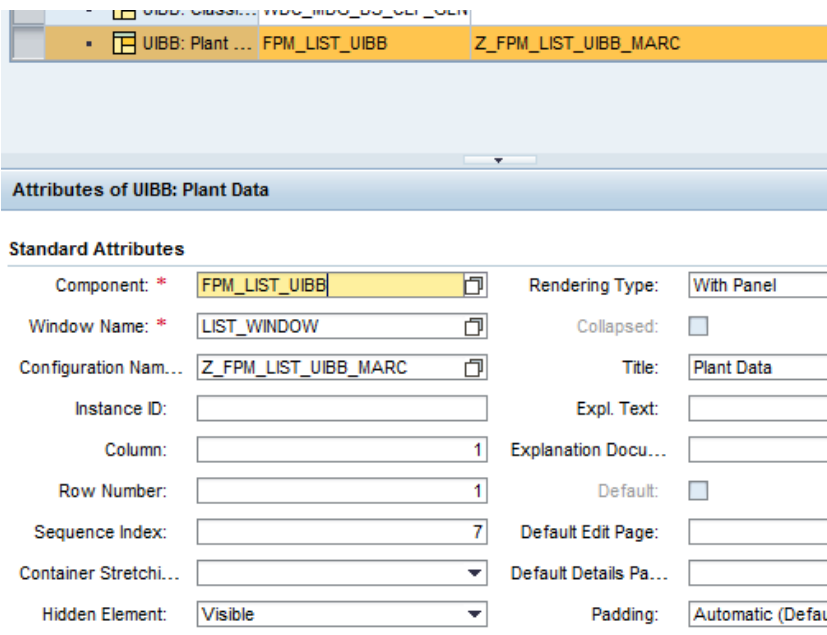
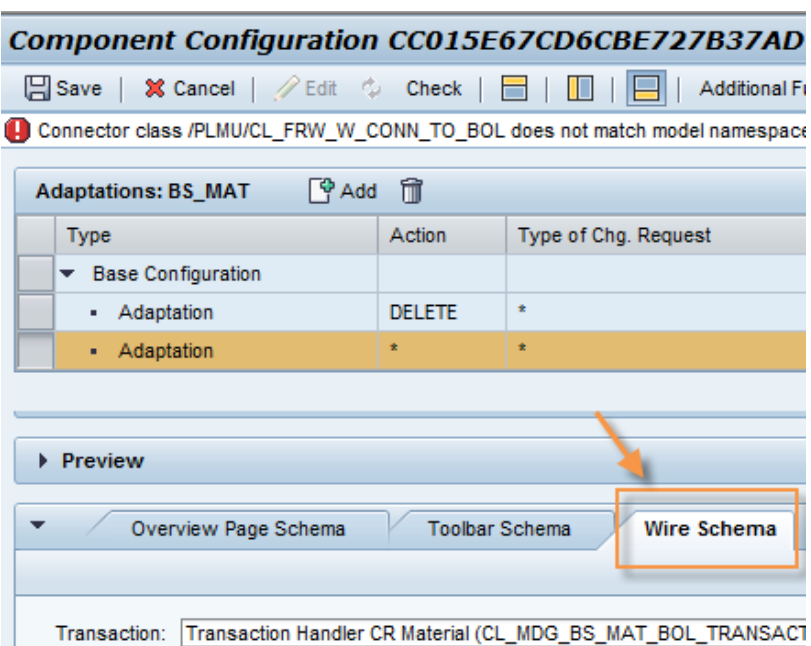
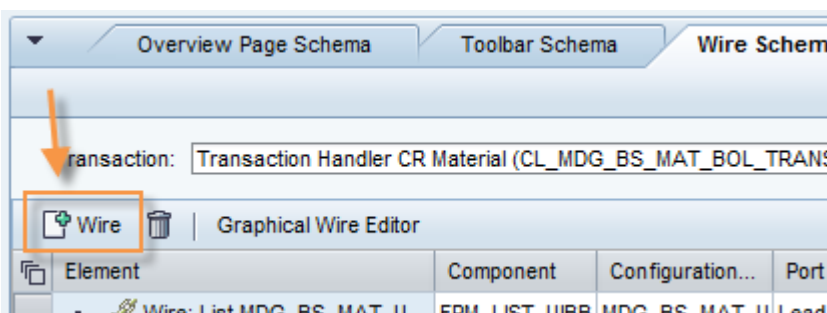
<p>35.</p>	<p>Start transaction SE80.</p> <p>In the dropdown select <b>Package</b>.</p> <p>Enter MDG_BS_MAT in the input field.</p> <p>Navigate the <b>Application Configuration</b> as shown in the screenshot.</p> <p>Double click on the <b>Application Configuration</b> BS_MAT_OVP.</p>	 <p>The screenshot shows the 'Web Dynpro Explorer: Display W' interface. The 'Package' dropdown is set to 'MDG_BS_MAT'. The 'Object Name' tree is expanded to 'MDG_BS_MAT_OVP', which is highlighted with an orange arrow. The tree structure includes 'Package Interfaces', 'Embedded Packages', 'Dictionary Objects', 'Class Library', 'Web Dynpro', 'Web Dynpro Components', 'Web Dynpro Applicat.', 'MDG_BS_MAT', 'MDG_BS_MAT_OVP', and 'Applic. Configurations'.</p>
<p>36.</p>	<p>In the browser window, choose the <b>Continue in Display Mode</b> pushbutton.</p>	 <p>The screenshot shows the 'Editor for the Web Dynpro ABAP Application Configuration' window. The 'Continue in Display Mode' button is selected. The 'Application Na...' field contains 'MDG_BS_MAT_OVP' and the 'Configuration I...' field contains 'BS_MAT_OVP'.</p>

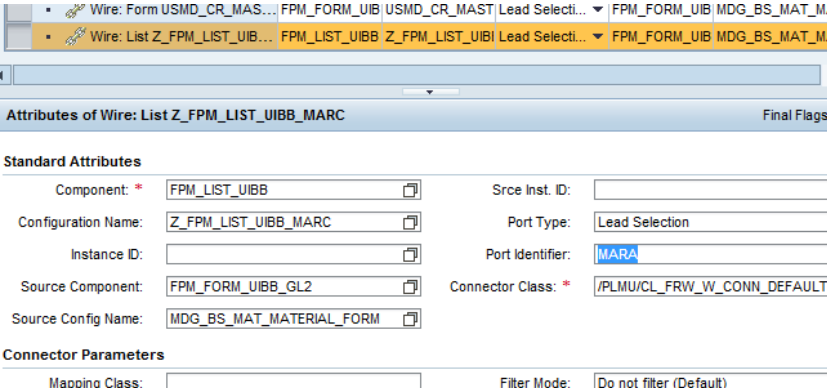
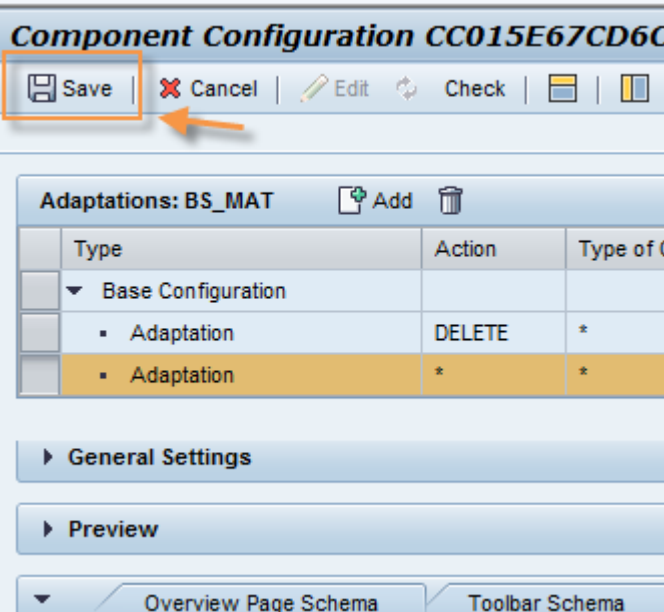
37.	Click on the link for <b>Configuration Name</b> BS_MAT_OVP_LAYOUT.	<div><div>Application Configuration BS_MAT_OVP</div><div><div>Save   Cancel   Edit   Check   New Window   Enhance   Properties</div><div>Test</div></div><div><div>Sign Web Dynpro Component</div><div><div>Configuration Name</div><table><tr><th>Component Usage</th><th>Component</th><th>Implementation</th><th>Configuration Name</th></tr><tr><td>MDG_BS_MAT_OVP</td><td>FPM_ADAPTABLE_OVP</td><td>FPM_ADAPTABLE_OVP</td><td>BS_MAT_OVP_CBA</td></tr><tr><td>OVP</td><td>FPM_OVP_COMPONENT</td><td>FPM_OVP_COMPONENT</td><td>BS_MAT_OVP_LAYOUT</td></tr></table></div></div></div>	Component Usage	Component	Implementation	Configuration Name	MDG_BS_MAT_OVP	FPM_ADAPTABLE_OVP	FPM_ADAPTABLE_OVP	BS_MAT_OVP_CBA	OVP	FPM_OVP_COMPONENT	FPM_OVP_COMPONENT	BS_MAT_OVP_LAYOUT
Component Usage	Component	Implementation	Configuration Name											
MDG_BS_MAT_OVP	FPM_ADAPTABLE_OVP	FPM_ADAPTABLE_OVP	BS_MAT_OVP_CBA											
OVP	FPM_OVP_COMPONENT	FPM_OVP_COMPONENT	BS_MAT_OVP_LAYOUT											
38.	Choose the icon as shown in the screenshot to display the <b>Adaptations &amp; Comparisons</b> .	<div><div>Component Configuration BS_MAT_OVP_LAYOUT, Main Screen</div><div><div>Save   Cancel   Edit   Check   Adaptations &amp; Comparisons   Additional Functions</div><div>Connector class /PLMU/CL_FRW_W_CONN_TO_BOL</div><div><div>Adaptations: BS_MAT</div><div>Add</div><table><tr><th>Type</th><th>Action</th><th>Type of Chg. Request</th><th>Material Type</th></tr><tr><td>Base Configuration</td><td></td><td></td><td></td></tr><tr><td>Adaptation</td><td>DELETE</td><td>*</td><td>*</td></tr></table></div><div>MDG_BS_MAT_OVP: BS_MAT_OVP &gt; OVP: BS_MAT_OVP_LAYOUT</div></div></div>	Type	Action	Type of Chg. Request	Material Type	Base Configuration				Adaptation	DELETE	*	*
Type	Action	Type of Chg. Request	Material Type											
Base Configuration														
Adaptation	DELETE	*	*											
39.	Press the <b>Add</b> pushbutton as shown in the screenshot to add a new adaptation.	<div><div>Component Configuration BS_MAT_OVP_LAYOUT, Main Screen</div><div><div>Save   Cancel   Edit   Check   Adaptations &amp; Comparisons   Additional Functions</div><div>Connector class /PLMU/CL_FRW_W_CONN_TO_BOL does not match model names</div><div><div>Adaptations: BS_MAT</div><div>Add</div><table><tr><th>Type</th><th>Action</th><th>Type of Chg. Request</th><th>Material Type</th></tr><tr><td>Base Configuration</td><td></td><td></td><td></td></tr><tr><td>Adaptation</td><td>DELETE</td><td>*</td><td>*</td></tr></table></div><div>MDG_BS_MAT_OVP: BS_MAT_OVP &gt; OVP: BS_MAT_OVP_LAYOUT</div><div><div>General Settings</div><div>Final Flags</div><div>Floorplan Settings</div></div></div></div>	Type	Action	Type of Chg. Request	Material Type	Base Configuration				Adaptation	DELETE	*	*
Type	Action	Type of Chg. Request	Material Type											
Base Configuration														
Adaptation	DELETE	*	*											



<p>40.</p>	<p>Add the filter criteria for your adaptation.</p> <p>In the screenshot no filter was set. As a consequence the UI changes will be applied every time the Material UI is shown.</p> <p>Press the <b>OK</b> pushbutton.</p>	
<p>41.</p>	<p>Assign a package to save the changes.</p> <p>Press the <b>OK</b> pushbutton.</p>	

42.	<p>In the <b>Adaptations</b> section select the newly created adaptation as shown in the screenshot and choose the <b>Edit</b> pushbutton.</p>	 <p><b>Component Configuration CC015E67CD6CBE727B37AD1...</b></p> <p>Save   Cancel   <b>Edit</b>   Check   [Icons]</p> <p>Additional Functions ▾</p> <p>Adaptations: BS_MAT [Add] [Delete]</p> <table><tr><th>Type</th><th>Action</th><th>Type of Chg. Request</th><th>Material Type</th><th>Workflow Step</th></tr><tr><td>▼ Base Configuration</td><td></td><td></td><td></td><td></td></tr><tr><td>▪ Adaptation</td><td>DELETE</td><td>*</td><td>*</td><td>*</td></tr><tr><td>▪ Adaptation</td><td>*</td><td>*</td><td>*</td><td>*</td></tr></table>	Type	Action	Type of Chg. Request	Material Type	Workflow Step	▼ Base Configuration					▪ Adaptation	DELETE	*	*	*	▪ Adaptation	*	*	*	*
Type	Action	Type of Chg. Request	Material Type	Workflow Step																		
▼ Base Configuration																						
▪ Adaptation	DELETE	*	*	*																		
▪ Adaptation	*	*	*	*																		
43.	<p>In the tab <i>Overview Page Schema</i> select the row with element MAT_SECTION.</p> <p>In the UIBB drop down menu, select <b>List</b> <b>Component</b> to add your custom List-UIBB component.</p>	 <p><b>Component Configuration CC015E67CD6CBE727B37AD1...</b></p> <p>Save   Cancel   Edit   Check   [Icons]</p> <p>Adaptations: BS_MAT [Add] [Delete]</p> <table><tr><th>Type</th><th>Action</th><th>Type of Chg. Request</th></tr><tr><td>▼ Base Configuration</td><td></td><td></td></tr><tr><td>▪ Adaptation</td><td>DELETE</td><td>*</td></tr><tr><td>▪ Adaptation</td><td>*</td><td>*</td></tr></table> <p>MDG_BS_MAT_OVP: BS_MAT_OVP &gt; OVP: BS_MAT_OVP_LAYOUT</p> <p>► General Settings</p> <p>► Preview</p> <p>Overview Page Schema   Toolbar Schema   Wireframe</p> <p>[Page Master Area] [Section] [UIBB ▾] [Up] [Down]</p> <p>Element</p> <ul style="list-style-type: none"><li>► Section: CR_SECTION</li><li>▼ Section: MAT_SECTION<ul style="list-style-type: none"><li>UIBB: Basic Data</li><li>UIBB: Design Data</li><li>UIBB: Descriptions</li><li>UIBB: Dimensions</li></ul></li></ul> <p>Analytics Chart Component Analytics List Component Composite Component Form Component Form Repeater Component Freestyle Component Launchpad Component <b>List Component</b> POWL Component</p>	Type	Action	Type of Chg. Request	▼ Base Configuration			▪ Adaptation	DELETE	*	▪ Adaptation	*	*								
Type	Action	Type of Chg. Request																				
▼ Base Configuration																						
▪ Adaptation	DELETE	*																				
▪ Adaptation	*	*																				

44.	In the <b>Attributes</b> section, enter the details of your custom <b>List-UIBB</b> as shown.	
45.	Select the <b>Wire Schema</b> tab.	
46.	Press the <b>Wire</b> pushbutton to connect your custom List-UIBB to the rest of the UI.	

47.	<p>Enter the wire attributes as shown in the screenshot.</p> <p>Connector Class: /PLMU/CL_FRW_W/CONN_DEFAULT</p>	
48.	Save your changes.	

## 7.3 Testing the Configuration

### Note

If you extend the data model according to the guidelines shown below, but the fields are not populated when you activate the data model, see SAP Note 1641867 - Values for extension field missing after CR activation

To test your configuration, start the MDG 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_MDGM_MENU` and click the **Display** button. 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.

## Material: New, 456456

Save Submit Cancel Edit Check



### Change Request

Edit

#### General

#### Notes

#### Attachments

##### General Data

Change Reque... 2550

\* Description: New Material

Priority:

Due Date:

Reason:

CR Type: Create Material

Type of Chang... MAT01

##### Process Data

Status: Changes to Be Executed

Current Workit... New Change Request

Created On/By: 12.04.2012 13:0 Lars Ru...

Changed On/By: 12.04.2012 13:0 Lars Ru...

#### Basic Data

#### Design Data

#### Descriptions

#### Basic Text

Edit Button

Lab/Office:

Industry Std De...

Basic material:

Prod./insp. me...

Prod Type:

- Basic Data
- ✓ Design Data
- Descriptions
- Basic Text
- Internal Comment
- Classification
- Plant Data

## Material: New, 456456

Save Submit Cancel Edit Check



### Change Request

Edit

#### General

#### Notes

#### Attachments

##### General Data

Change Request ID: 2553

\* Description: New Material

Priority:

Due Date:

Reason:

CR Type: Create Material

Type of Change Re... MAT01

##### Process Data

Status: Changes to Be Executed

Current Workitem: New Change Request

Created On/By: 12.04.2012 13:36:17

Changed On/By: 12.04.2012 13:36:17

#### Classification

#### Plant Data

Delete

Material	Plant	MRP Type	MRP Controller	Lot size
456456	0001	M2	000	EX

#### Dimensions

#### GTIN/EAN

Edit

\* Base Unit of Measure: 000 Meter/Minute

Net Weight: 0,000

Size/dimensions:

Delete

Alt. Quantity	Alternative Unit of Measure	Description of Unit of Measure	Base Quantity
1	000	Meter/Minute	1
0			0
0			0
0			0
0			0

##### Details:

Len... 0,00  
Wid... 0,00  
Hei... 0,00  
Vol... 0,00  
Gro... 0,00

**Material: New, 456456**

Save **Activate** Send for Revision | Cancel | Edit | Check Change Documents Workflow Log

▼ Change Request Edit

General Notes Attachments

**General Data**

Change Request ID: 2553

\* Description: New Material

Priority:

Due Date:

Reason:

CR Type: Create Material

Type of Change Reque... MAT01

WF Step Type: Activate Change Request

**Process Data**

Status: Changes to Be Executed

Current Workitem: Process Change Request 25

Created On/By: 12.04.2012 13:36:17

Changed On/By: 12.04.2012 13:36:17

▼ Plant Data

Delete

Material	Plant	MRP Type	MRP Controller	Lot size
456456	0001	M2	000	EX

▼ Dimensions GTIN/EAN Edit

\* Base Unit of Measure: 000 Meter/Minute

Net Weight: 0,000

Size/dimensions:

Delete

Alt. Quantity	Alternative Unit of Measure	Description of Unit of Measure	Base Quantity
1 000		Meter/Minute	1
0			0
0			0
0			0
0			0

**Details:**

Length: 0,000

Width: 0,000

Height: 0,000

Volume: 0,000

Gross ... 0,000

After activation use transaction MM02 on the hub to verify the MARC attributes have been transferred correctly.

Material Edit Goto Environment System Help

Change Material ABHI-5 (Finished Product)

Additional Data Org. Levels Check Screen Data

Basic data 2 MRP 1 MRP 2 MRP 3 MRP 4 Plan...

Material ABHI-5 test  
Plant 0001 Werk 0001

**General Data**

Base Unit of Measure	000	m/min	MRP group	
Purchasing Group			ABC Indicator	
Plant-sp.matl status			Valid from	

**MRP procedure**

MRP Type	ND	No planning
Reorder Point		Planning time fence
Planning cycle		MRP Controller

**Lot size data**

Lot size	EX	Lot-for-lot order quantity
Minimum Lot Size		Maximum Lot Size
Fixed lot size		Maximum stock level
Ordering costs		Storage costs ind.
Assembly scrap (%)		Takt time
Rounding Profile		Rounding value
Unit of Measure Grp		



## 8 Additional Information

### 8.1 Further Reading

#### 8.1.1 Information on SAP MDG on SAP S/4HANA

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

#### 8.1.2 SAP Roadmap Explorer

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

#### 8.1.3 Related Information

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

### 8.2 SAP Notes

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

Note	Description
<a href="#">3043582</a>	MDG Customer Connection 2020
<a href="#">3194967</a>	MDG Customer Connection 2021 for S/4HANA 2022
<a href="#">3311039</a>	MDG Customer Connection 2023
<a href="#">3134600</a>	MDG-M: Supported fields in Data Model MM
<a href="#">1806108</a>	Functional restrictions in MDG-M in MDG7 (incl. SP02)
<a href="#">2129261</a>	Functional restrictions in MDG-M in MDG8
<a href="#">2284745</a>	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.0
<a href="#">2461516</a>	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.1
<a href="#">2656693</a>	Functional Restrictions in MDG for Material in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809
<a href="#">2816571</a>	Functional Restrictions in MDG for Material on SAP S/4HANA 1909
<a href="#">2948873</a>	Functional Restrictions in MDG for Material on SAP S/4HANA 2020
<a href="#">3070012</a>	Functional Restrictions in MDG for Material on SAP S/4HANA 2021

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