



PUBLIC

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

Applicable Releases:

From EHP6 for SAP ERP 6.0 and from S/4HANA 1511

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## Document History

Document Version	Description
1.0	First official release of this guide
2.00	Small updates (June 2016)
3.00	Layout update (May 2024)

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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.

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 SAP ERP Material Master.

This guide describes how to extend the preconfigured content of Master Data Governance for Material (using the data model MM) with a new entity type, where records stay in the generated tables (flex option). Here the active area and the staging area are identical and generated by MDG.

## 2 Business Scenario

The business requires additional fields. These fields should be under governance, but don't need to be available in the ERP backend system.

The distribution of these additional fields is not required. The data resides locally only.

### Examples:

- Custom Organization Hierarchy
- Custom Material Hierarchy
- Fields for calculating material description

## 3 STEP-BY-STEP EXPLANATION FOR THE SCENARIO

**Business:** In this scenario, you want to add some asset/equipment data to the material master. You want to add more than one equipment to the material.

Note: This is just a technical example and not a best practice for putting EAM/PM data under governance!

**Technical:** You want to have a new *Entity Type* **YEQUINP** for additional data for equipment with 3 attributes. It is directly depending on the material number using a 1:n relationship.

### 3.1 Data Elements

SE11 – Create 4 New Data Elements

Data Element	Domain	Description	Data Type & Length	Check
YREQUNR	EQUNR	MDG Equipment Number	CHAR 18	EQUI-EQUNR
YYBAUJJ	CJAHR	MDG Year of construction	CHAR 4	
YYBAUMM	BAUMM	MDG Month of construction	CHAR 2	00-09; 10-12
YYHERLD	LAND1	MDG Country of manufacture	CHAR 3	Table T005

### 3.2 Data Model

In this Customizing activity, you define and activate a data model to map master data in the system, along with its properties and relationships. The system uses this data model to generate database tables in which the master data can be stored. Enhance the delivered data model **MM** in Customizing for *Master Data Governance* under *General Settings -> Data Modeling -> Edit Data Model*.

The following screenshots are using the alternative FPM-base configuration tool:  
Customizing for *Master Data Governance* under *General Settings -> Configuration Workbench*. The maintenance of the Data Model is cross client. Select the **MM** data model and add the new attributes. The details of *Entity Type* **YEQUINP** are shown in the screenshot below.

Create new Entity Type 3: YREQUNR for the key – linked to Key Data Element

The screenshot displays the 'Details: YEQUINR' configuration page in the SAP Customizing Workbench. The 'General' tab is active, showing the following settings:

- General Data:**
  - Entity Type: YEQUINR
  - Description: Equipment
  - SU Type: 3 - Not Changeable via MDG; No Generated Tz
  - Data Element: YREQUNR
  - Validity of Entity Type: No Edition
  - Deletion: Deletion Allowed
  - Attachments: ☐
  - Sets: ☐
  - Search Help:
  - Generated: ☐
- Hierarchies:**
  - Is Hierarchy Type: No
  - Validity of Hierarchy: No Edition
- Key Assignment:**
  - Type of Key Assignment: Key Cannot Be Changed; No Internal Key Assig
  - Number Range Object for Temporar...:
- Entity Texts:**
  - Language-Dependent Texts: ☐
  - Long Text Length: 00
  - Medium Text Length: 00
  - Short Text Length: 00
- Source Fields for Texts:**
  - Source Field Long Text:
  - Source Field Medium Text:
  - Source Field Short Text:

## Create new Entity Type 4 – Active Area MDG = Flex

**Details: YEQUIP**

General | Attributes | Incoming Relationships | Outgoing Relationships | Business Object Types | Hierarchies | Structure Names

**General Data**

\* Entity Type: YEQUIP  
Description: Equipment  
\* SU Type: 4 - Changeable via Other Entity Type; Generate  
Data Element:  
Validity of Entity Type: No Edition  
Deletion: Deletion Allowed  
Attachments:  
Sets:  
Search Help:  
Generated:

**Key Assignment**

Type of Key Assignment: Key Cannot Be Changed; No Internal Key Assig  
Number Range Object for Temporar...

**Entity Texts**

Language-Dependent Texts:  
Long Text Length: 00  
Medium Text Length: 00  
Short Text Length: 00

**Source Fields for Texts**

Source Field Long Text:  
Source Field Medium Text:  
Source Field Short Text:

**Hierarchies**

Is Hierarchy Type: No  
Validity of Hierarchy: No Edition

**Reuse**

Active Area: MDG - Active area provided by MDG  
Structure/Table:  
Field:  
Struct. for X-Fields:

## Maintain Relationships

**Details: YEQUIP**

General | Attributes | Incoming Relationships | Outgoing Relationships | Business Object Types | Hierarchies | Structure Names

*Relationship	*From-Entity Type	Relationship Type	*Cardinality	Data Element	No Existence C...	Description	Field	Structure/Table	Generated
ZZMATEQU	MATERIAL	Leading	1 : N		<input type="checkbox"/>				<input type="checkbox"/>
ZZEQUINR	YEQUINR	Qualifying	1 : N		<input type="checkbox"/>				<input type="checkbox"/>

## Add Attributes

**Details: YEQUIP**

General | Attributes | Incoming Relationships | Outgoing Relationships | Business Object Types | Hierarchies | Structure Names

*Attribute	Key Field	Description	Data Elem...	Currency/...	Required...	No Existe...	Search Help	Structure/...	Field	Generated	Standard...	Status
YYBAUJJ	<input type="checkbox"/>	Constr. Mo...	YYBAUJJ		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		
YYBAUMM	<input type="checkbox"/>	Constructio...	YYBAUMM		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		
YYHERLD	<input type="checkbox"/>	Cntry of Mfg	YYHERLD		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		

Save & Activate.

### 3.2.1 Optional: 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 *Master Data Governance* (transaction **MDGIMG**).
2. Go to *General Settings* -> *Data Modeling* -> *Edit Data Model*.
3. Select *data model MM*.
4. Double click on *Entity Types*.

5. Choose button *Adjust Staging Area of Linked Change Requests.*

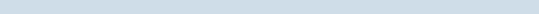
### 3.2.2 Check Data Model

Run `USMD_DISPLAY_DATA_MODEL` and navigate to new entity. It shall have the following structure:

Active Data Model MM					
<a href="#">Detail View</a>   <a href="#">Inactive Version</a>   <a href="#">Graphic Display</a>					
Data Model	Name	Field Type	Storage and Use Type 1	Data Element	Refer
•  VOLEHMARA	Volume unit	Attribute	<input type="checkbox"/>	VOLEH	
•  VOLUMMARA	Volume	Attribute	<input type="checkbox"/>	VOLUM	
•  WRKST	Basic material	Attribute	<input type="checkbox"/>	WRKST	
•  XCHPFMARA	Batch manage...	Attribute	<input type="checkbox"/>	XCHPF	
•  XGCHPMARA	Appr.batch rec...	Attribute	<input type="checkbox"/>	XGCHP	
▼  YEQUIP	Equipment				
•  MATERIAL	Material	Leading Entity Type	<input checked="" type="checkbox"/>	MATNR	
•  YEQUNR	Equipment MDG	Qualifying Entity Type	<input type="checkbox"/>	YYEQUNR	
•  YYBAUJJ	Construction y...	Attribute	<input type="checkbox"/>	YYBAUJJ	
•  YYBAUMM	Construction m...	Attribute	<input type="checkbox"/>	YYBAUMM	
•  YYHERLD	Country of ma...	Attribute	<input type="checkbox"/>	YYHERLD	
▼  YBUPA	Business Partner				
•  MATERIAL	Material	Leading Entity Type	<input checked="" type="checkbox"/>	MATNR	
•  ZBUPA03	Business Partner	Qualifying Entity Type	<input type="checkbox"/>	BU_PARTNER	
•  NICKNAME	Nickname/nam...	Attribute	<input type="checkbox"/>	NICKNAME	
▶  VALUATION	Characteristic V...				
▶  UNITOFMSR	Units of Measur...				

### 3.2.3 Check Generated Tables

Check the generated tables using report USMD\_DATA\_MODEL for data model **MM**.

Generated Tables							
Details							
							
Entity Type	Included Entity Ty...	Type	Subtype	Logical Name	Physical Name	Version	
MATERIAL	YEQUIP	TABL	Table with Further Attributes	TOA_MM_MATERIAL_YEQUIP	/1MD/MD____0BM	0001	
MATERIAL	ZMDGTIMAT	TABL	Table with Further Attributes	TOA_MM_MATERIAL_ZMDGTIMAT	/1MD/MD____0C0	0001	
MATERIAL	BSCDATTXT	TABL	Table with Further Attributes	TOA_MM_MATERIAL_BSCDATTXT	/1MD/MD____03S	0001	
MATERIAL	CLASSACCN	TABL	Table with Further Attributes	TOA_MM_MATERIAL_CLASSACCN	/1MD/MD____02H	0001	

Double-click on YEQUIP for more details.



After the activation the new fields are added to the generated table, as shown in the screenshot below.

**Dictionary: Display Table**

Transparent Table /1MD/MD\_\_\_\_\_0BM Active

Short Description MM At/Rel MATERIAL / ZZMATEQU

Attributes Delivery and Maintenance Fields Entry help/check Currency/Quantity Fields

Srch Help Predefined Type

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
USMDKMMATERIAL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMD TECH KEY	INT4	10	0	Technical Key
/1MD/MMYEQUNR	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	YYEQUNR	CHAR	18	0	MDG Equipment Number
USMD ACTIVE	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMD ACTIVE	CHAR	1	0	Active/Inactive Data Record
USMD O YEQUIP	<input type="checkbox"/>	<input type="checkbox"/>	USMD OBSOLETE	CHAR	1	0	Obsolete Data Record
/1MD/MMYYBAUJJ	<input type="checkbox"/>	<input type="checkbox"/>	YYBAUJJ	CHAR	4	0	MDG Year of construction
/1MD/MMYYBAUMM	<input type="checkbox"/>	<input type="checkbox"/>	YYBAUMM	CHAR	2	0	MDG Month of construction
/1MD/MMYYHERLD	<input type="checkbox"/>	<input type="checkbox"/>	YYHERLD	CHAR	3	0	MDG Country of manufacture

### 3.3 Link from FlexTable to main Entity Key

The link between final material number and the MDG technical key can be found in the so called Mapping Table:

MATERIAL	MARDS FOR	TABL Table with Further Attributes	TOA_MM_MATERIAL_MARDS FOR	/1MD/MD_____05W 0001
MATERIAL	MBEWACTNG	TABL Table with Further Attributes	TOA_MM_MATERIAL_MBEWACTNG	/1MD/MD_____05C 0001
MATERIAL		TABL Attachments: Descriptive Attributes	TAX_MM_MATERIAL	/1MD/MD_____03P 0001
MATERIAL		TABL Attachments: Contents	TAY_MM_MATERIAL	/1MD/MD_____03Q 0001
MATERIAL		TABL Mapping Table	TMX_MM_MATERIAL	/1MD/MD_____03L 0001
MDACH		TABL Check Table	TCK_MM_MDACH	/1MD/MD_____04B 0001

**Data Browser: Table /1MD/MD\_\_\_\_\_03L Select Entries 3**

Check Table...

Table: /1MD/MD\_\_\_\_\_03L

Displayed Fields: 4 of 4 Fixed Columns: 2 List Width 0250

	MANDT	USMDKMMATERIAL	/1MD/MD_____03L	USMDTMMATERIAL
<input type="checkbox"/>	405	116	P-240315-07	
<input type="checkbox"/>	405	117	P-240315-10	
<input type="checkbox"/>	405	118	P-240315-15	

MANDT	USMDK000MATERIAL	/1MD/MMYEQUNR	USMD_ACTIVE	USMD_O_YEQUIP	/1MD/MMYYBAUJJ	/1MD/MMYYBAUMM	/1MD/MMYYHERLD
405	119	000000000010000004	1		2015	11	US
405	116	000000000010000000	1		2015		
405	117	000000000010000001	1		2015	00	
405	117	000000000010000002	1		2015	00	
405	118	000000000010000002	1		2015	00	DE
405	118	000000000010000003	1		2015	10	FR

### 3.4 SMT Mapping

SMT Mapping is not required for Flex Entities. Since the flex option is used for the new entity type, records stay in the generated tables and the creation of SMT mapping is not needed.

### 3.5 Generate Data Model-Specific Structures

Since the MDG data model was changed you need to regenerate the tables. In this Customizing activity, for each data model and entity type you generate technical structures and tables in the ABAP Dictionary. The system uses these structures internally for implementing the staging area.

To generate these Data Model-Specific structures follow the steps below:

1. Start Customizing for Master Data Governance (transaction MDGIMG).
2. Go to *General Settings* -> *Data Modeling* -> *Generate Data Model-Specific Structures*
3. Insert new lines for entity type YEQUIP and the relevant where used.

#### **Mandatory**

- Structures for mapping between active area and staging area
- Structures for Field Properties

#### **Optional**

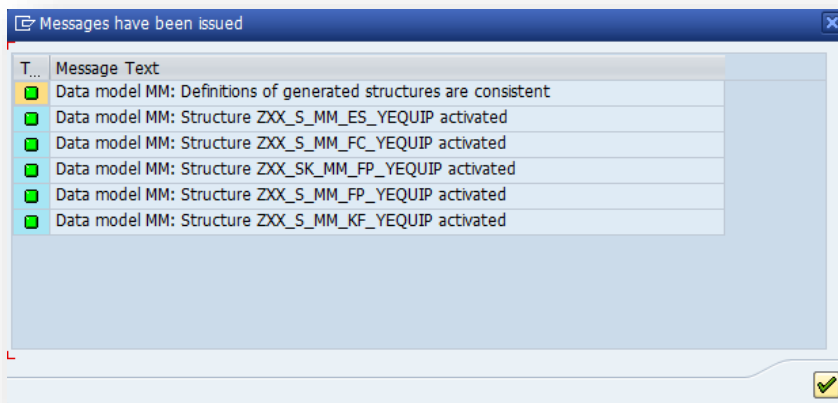
- Structures for PDF-based Forms
- Structures for Enterprise Search

#### **Obsolete**

- Structures for Field Control

Data Model <span>MM</span>					
Structures					
Entity Type	Where Used	Prefix/Namespace	Name of Structure	Package	
YEQUIP	Mapping of Reuse Active Area	ZXX	_YEQUIP		
YEQUIP	Search Application	ZXX	ES_YEQUIP		
YEQUIP	Field Control for Attributes	ZXX	FC_YEQUIP		
YEQUIP	Field Properties for Attrib...	ZXX	FP_YEQUIP		
YEQUIP	Key Fields of an Entity Type	ZXX	KF_YEQUIP		

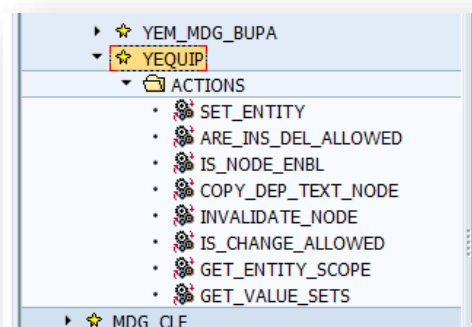
3. Mark the lines and click the *Generate Structures* button.
4. Save your changes.



### 3.6 Check Generated Metadata in SPI

Use transaction MDB to check that the nodes have been created properly.

ABBID = MDG\_MAT



## Note:

If the metadata is not shown correctly, run the customizing activity *MDGIMG-> 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.

## 3.7 Enhance the User Interface

The new attributes should also be considered in the UI. UI configurations can be adapted using the FPM-enhancement option.

For details see also other Extensibility Guide [Extend Master Data Governance Material User Interface](#).

The following steps can be used as a starting point:

- Deep copy the Application Configuration from BS\_MAT\_OVP\_06 and the related UI Configuration.

Manage UI Configurations					
View: [Standard View] [Print Version] [Export]					
Data Model	Application	Application Configuration	UI Configuration	Communicator Status	Description
MM	MDG_BS_MAT_OVP	BS_MAT_OVP_06	BS_MAT_OVP_LAYOUT_06	◇	MDG-M: UI with CBA - flat
MM	MDG_BS_MAT_OVP	BS_MAT_OVP_06H	BS_MAT_OVP_LAYOUT_06H	◇	MDG-M: UI with CBA - hierarchical 06
MM	MDG_BS_MAT_OVP	ZEM_BS_MAT_OVP_06	ZEM_BS_MAT_OVP_LAYOUT_06	◇	MDG-M: UI with CBA - flat
MM	MDG_BS_MAT_OVP	ZZIR_BS_MAT_OVP_06	ZZIR_BS_MAT_OVP_LAYOUT_06	◇	MDG-M: UI with CBA - flat
MM	MDG_BS_MAT_OVP_CORE	BS_MAT_OVP_CORE	BS_MAT_OVP_LAYOUT	◇	MDG-M: UI core

- Add a new UIBB of component FPM\_LIST\_UIBB

Element	Component	Config ID	Window Name
Section: CR_SECTION			
Section: MAT_SECTION			
UIBB: Material Central Node	FPM_FORM_UIBB_GL2	MDG_BS_MAT_MATERIAL_FORM_04	FORM_WINDOW
UIBB: Basic Data	FPM_FORM_UIBB_GL2	ZEM_MDG_BS_MAT_MAT_FORM_06	FORM_WINDOW
UIBB: Descriptions	FPM_LIST_UIBB_ATS	ZEM_MDG_BS_MAT_DESCR_LIST_05	LIST_WINDOW
UIBB: Equipment	FPM_LIST_UIBB	ZIR_MDG_BS_MAT_EQUIP	LIST_WINDOW

- Create & configure the new UIBB

Attributes of UIBB: Equipment		Final Flags
Standard Attributes		
* Component:	FPM_LIST_UIBB	Title: Equipment
* Window Name:	LIST_WINDOW	Image:
Config ID:	ZIR_MDG_BS_MAT_EQUIP	Padding: Automatic (Default)
Instance ID:		Style:
Column:	1	Explanation Text:

- Maintain the Feeder Class and Parameters. Feeder Class: CL\_MDG\_BS\_MAT\_FEEDER\_LIST

Edit Parameters

Feeder Class

Feeder Class: CL\_MDG\_BS\_MAT\_FEEDER\_LIST Feeder for lists

Parameters

Application Building...

MDG\_MAT

Node Name:

YEQUIP

Number of Default...

3

Show Default Rows...

Not RETRIEVE by...

Retrieve Mode:

Default (Adequate Mode is Set Au

Entity Type:

YEQUIP

Initial Line Attribute...

Suppress Field Hig...

Entity Types

Insert

Entity Type

OK

Cancel

- Drag & Drop from the field list to the table / list preview:

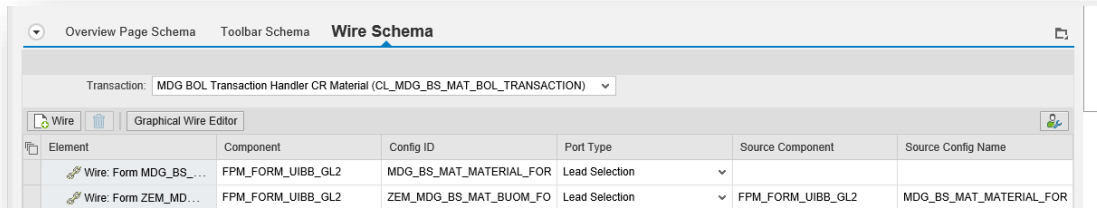
Preview

Equipment MDG	Equipment descriptn	Construction year MDG	Construction mth MDG	Short Descript.	Country of manu. MDG	Name

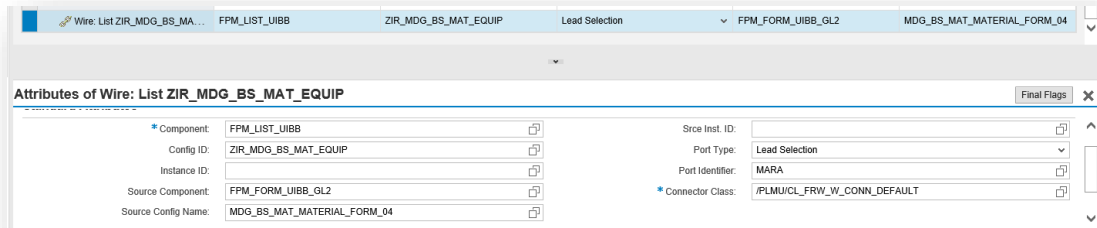
Lead Selection Action Assignment

Element	Display Type	Header	Tooltip	Header Tooltip
Column: YEQUNR	Input Field	Equipment MDG		
Column: YEQUNR_TXT	Input Field	Equipment descriptn		
Column: YYBAUJJ	Input Field	Construction year MDG		
Column: YYBAUJM	Input Field	Construction mth MDG		
Column: YYBAUJM_TXT	Input Field	Short Descript.		
Column: YYHERLD	Input Field	Country of manu. MDG		
Column: YYHERLD_TXT	Input Field	Name		

- Added Wiring for the MDG BOL Transaction Handler CR Material

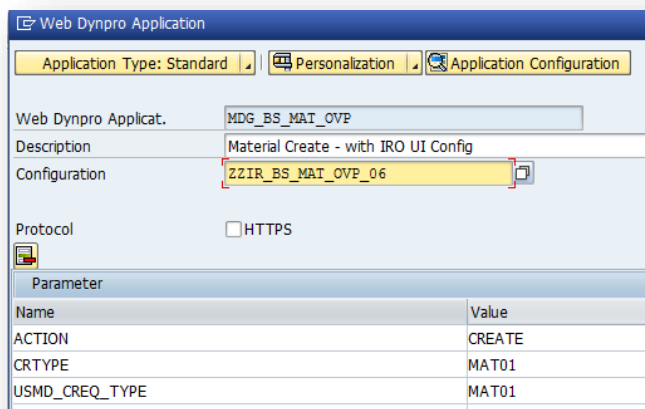


- Add the connector class: /PLMU/CL\_FRW\_W\_CONN\_DEFAULT



- Add buttons to the toolbar

### 3.8 Test New UI Configuration Using a Web Dynpro Application Favorite



Material: New \$91

Save

Submit

Cancel

Edit

Expand all

Collapse all

Check

Assignment Block: Descriptions

Change Request

Edit

General

Notes

Attachments

General Data

Change Request ID: 747

\* Description: Test Demo

Priority:

Due Date:

Reason:

Process Data

Status: Changes to Be Executed

Current WorkItem: New Change Request

Created On/By: 11.05.2015 13:36:20

Changed On/By: 11.05.2015 13:36:32

Basic Data

Descriptions

Equipment

Equipment MDG	Equipment descriptn	Construction year MDG	Construction mth MDG	Short Descript.	Country of manu. MDG	Name

Dimensions

## 4 Additional Information

### 4.1 Further Reading

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

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

#### 4.1.2 SAP Roadmap Explorer

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

#### 4.1.3 Related Information

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

### 4.2 SAP Notes

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

Note	Description
<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)
<a href="#">1637249</a>	MDG: Information for efficient message processing