

# **How-To Guide: Extend MDG-MARCDC in the AR Data Model**

#### Applies to

Prometheus Group Solutions for MDG RFM

#### **Summary**

SAP Master Data Governance provides an out-of-the box solution for the central management of various master data objects such as financial objects, supplier and material. In addition, SAP Master Data Governance also provides the flexibility to customize the solution, in cases where the pre-delivered content does not fully match customer requirements. You can use this guide to extend the MDG-AR Data Model by a new attribute. The newly added attribute value will be copied to the corresponding ERP tables (reuse option) after activation of the Change Request.

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### Introduction

This document describes how to extend the Data Model 'AR' by adding additional attribute 'ZZUNAME' to the entity 'MARCDC'.

#### Scenario

## High Level Requirements

The business requires the new attributes as part of the MDG Article Master (AR) data model. You want to extend the (Type 4) entity type MARCDC to include attributes: ZZUNAME. The field would be added in the Article Master -> Logistics DC UIBB section.

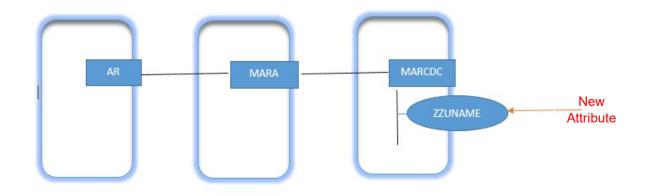


Figure: Data Model - Logistic DC (Scope of 2017 Delivery) with custom attribute 'ZZUNAME".

#### **Governance Process**

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

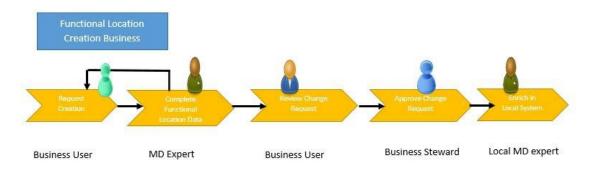


Figure: Article processing in Master Data Governance

# **Implementation**

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



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

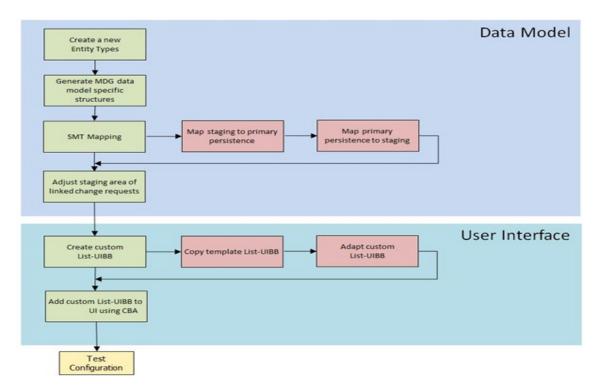


Figure: Implementation steps for re-use Entity-Type extension

#### **Data Model Extension**

This section explains the steps to extend the MDG Data Model for RFM (AR) by the additional attributes ZZUNAME to the entity MARCDC.

Use the following steps to extend data model:

- Add attributes to existing Entity Type
- Generate MDG Data Model-Specific Structures

## Add attributes to existing Entity Type

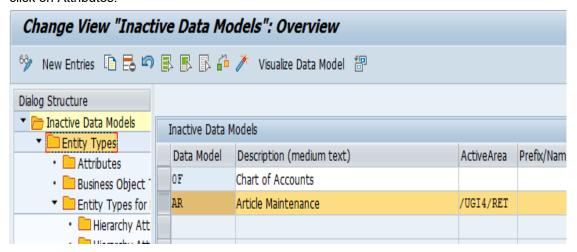
Use the following steps to add attributes ZZUNAME in the existing entity type MARCDC.

- 1. Log into system for cross client maintenance.
- 2. Start customizing for Master Data Governance (transaction code MDGIMG). Navigate to General Settings > Data Modeling > Edit Data Model.

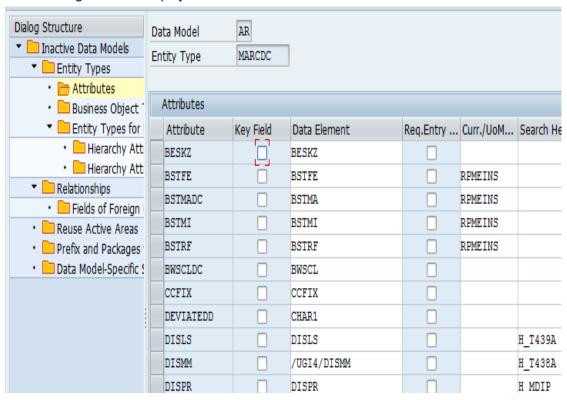




Select the data model AR > Double click on Entity Types > Select the entity MARCDC > Double click on Attributes.



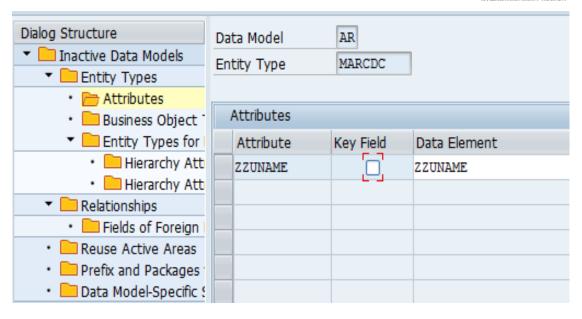
The following screen is displayed.



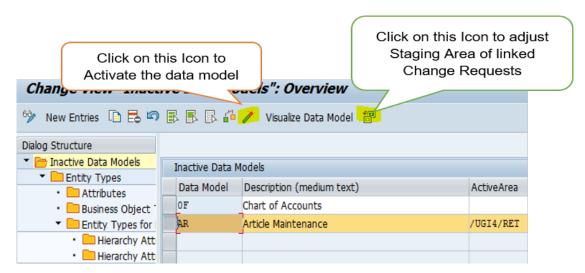
4. Add the new attributes to the entity MARCDC as displayed in the following screen and save your settings.

It is recommended to 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.



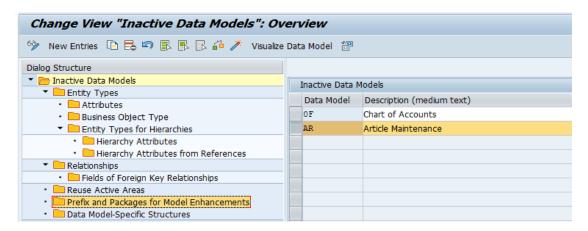


5. Adjust Staging Area of Change Requests and Activate the data model.



## Generate MDG Data Model-Specific Structures

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

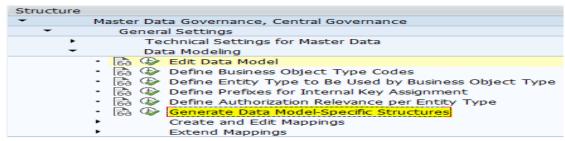




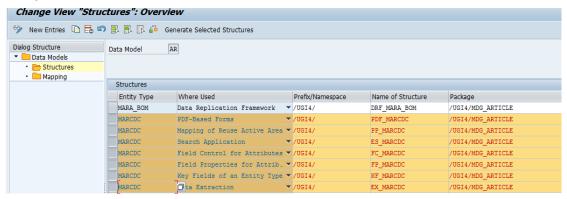
**Older releases:** Since the MDG Data Model was changed, you need to regenerate the tables. In this Customizing activity, for each data model and entity type you can generate technical structures and tables in the ABAP Dictionary. The system uses these structures internally for implementing the staging area. To generate these Data Model-Specific Structures use the following steps:

Use the following steps to generate Data Model Specific Structures.

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



2. Select the row with Data Model AR > Double-click Structures in the left-hand panel > Choose the "Generate Selected Structures" button.

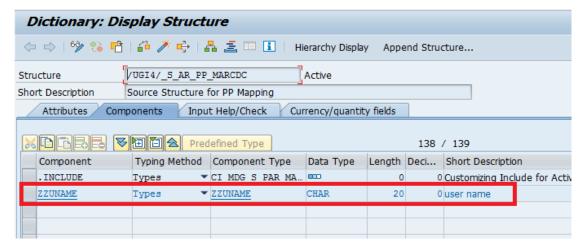


3. Verify that the structures are generated successfully.

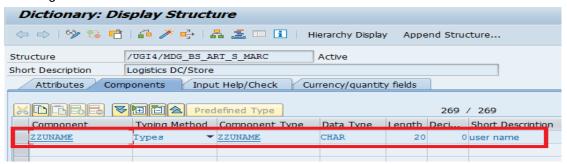


Verify that one of the Active Area mapping structures is successfully generated.
Start transaction code (t-code) SE11 > Display structure by entering the following details.





5. After verifying, the structures are generated with a new attribute "ZZUNAME" as displayed in the following screen.



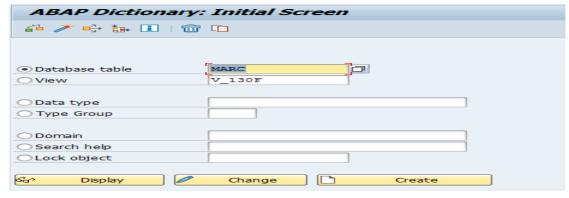
## **Enhancing Active Area Structures/Tables**

Enhance table MARC:

Enhance database table MARC by appending a structure with the following fields.

ZZUNAME TYPE Char20.

1. Run t-code SE11 > Open the database table MARC as shown.

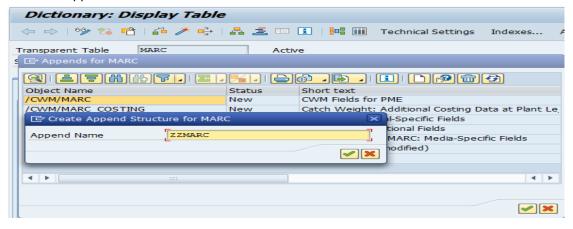


2. Click on "Append Structure" button to append the required fields into MARC table.





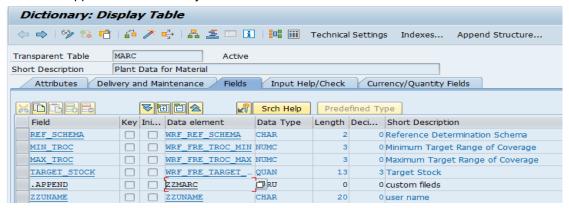
3. Enter the Append Name.



4. Add the required fields to the structure. Save and Activate the structure.



5. Fields are appended successfully into the MARC table.



# **SMT Mapping**

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

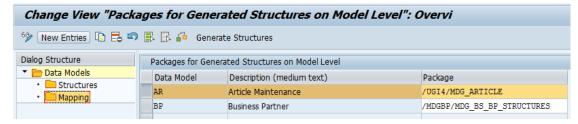


*Important*: When the mappings are saved, the system generates the corresponding coding. Make sure that all relevant structures are ready before you start.

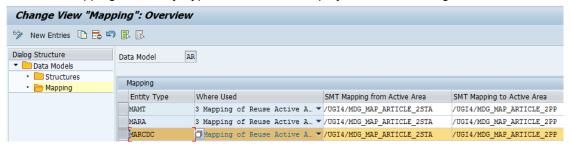
## SMT Mapping - Get Mapping names from Data Model AR

Use the following steps to get the mapping names:

Log into system for cross-client maintenance. Start Customizing for Master Data Governance (t-code MDGIMG). Navigate to > General Settings > Data Modelling > Generate Data Model Specific Structures > Select Data Model AR > Double click on Mapping.



The SMT mappings for Entity Type MARCDC are displayed in the following screen.

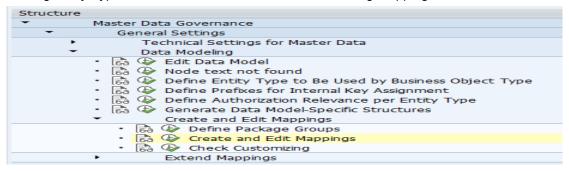


## SMT Mapping - Primary Persistence to Staging

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

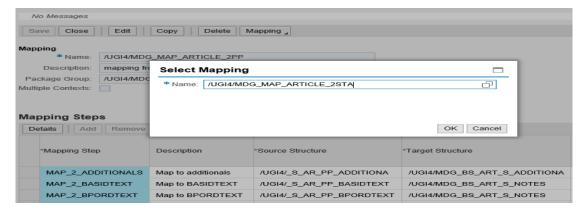
Log into system for cross-client maintenance. Start Customizing for Master Data Governance (t-code MDGIMG). Navigate to General Settings > Data Modeling > Create and Edit Mappings > Create and Edit Mappings

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

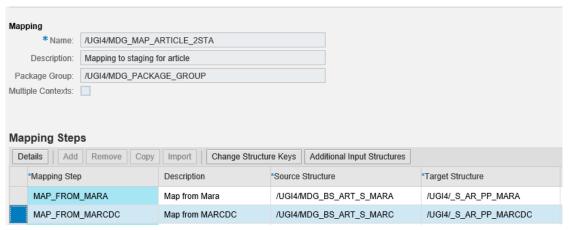


2. Extend mapping /UGI4/MDG MAP ARTICLE 2STA.

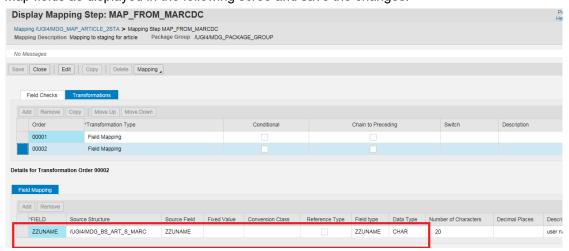




Select the mapping step MAP\_FROM\_MARCDC-> Click on "Details" button to update the transformations.



4. Map fields as displayed in the following scree and save the changes.



## SMT Mapping - Staging to Primary Persistence

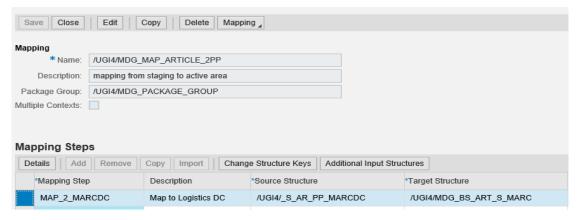
Use the following steps for SMT Mapping from Staging area to Primary Persistence.

1. Extend mapping /UGI4/MDG\_MAP\_ARTICLE\_2PP.

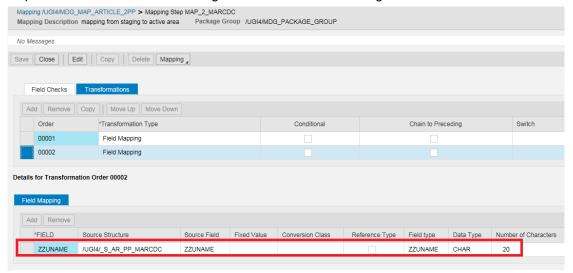




2. Select mapping step and select the "Details" button. Map the fields as displayed in the following screen.



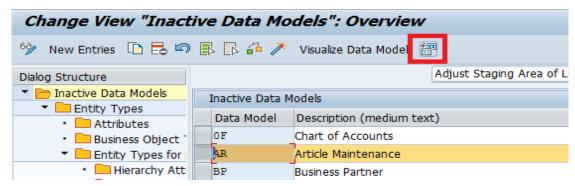
3. Map fields as shown in the following screen and save the changes.



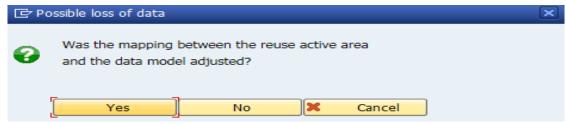
# Adjust Staging Area of Linked Change Requests

**Note**: This step is necessary to adjust any open Change Requests after you have changed the Data Model.





2. Choose the "Yes" button.



The following message appears.

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



## **Extending the UI Configuration**

You can create Customization of the application configuration of Retail Article by using the following steps.

1. Launch the Application Configuration /UGI4/\_AR\_OVP\_MARA.

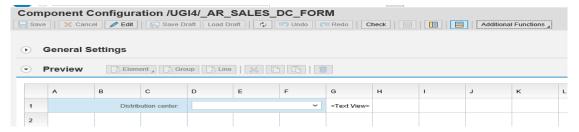


2. As the Business requirement is to add the New field "Username" in the "Logistics DC" section, click on the Component Configuration "UGI4/ AR SALES DC FORM".

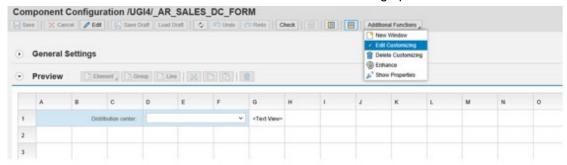


The following is the screen is displayed.

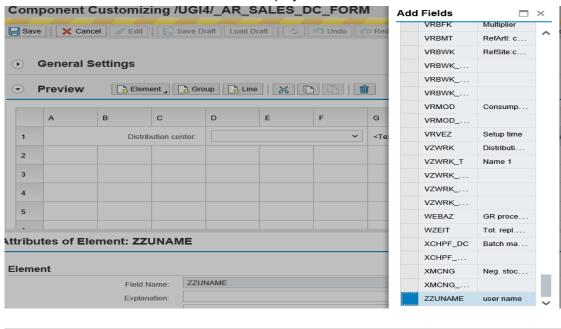


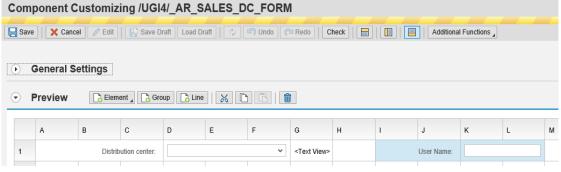


3. Click on Additional Functions menu > Select Create Customizing option.



4. Add the "Username" field on the screen as displayed:

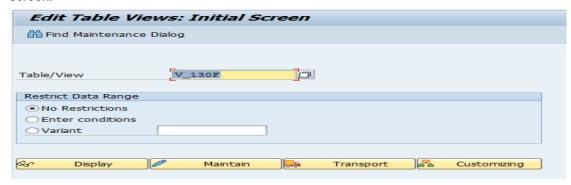




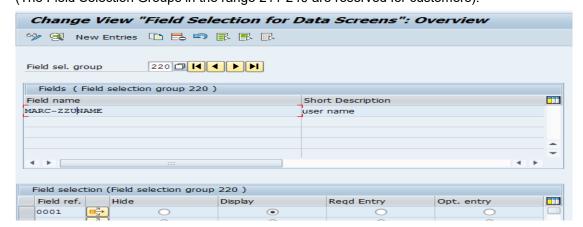
5. Save the changes.



**Configuration Note:** The custom field needs to be maintained in the "Field Groups" View V\_130F to successfully transfer the values from MDG to ECC for the field as in the following screen.



Assign the custom field MARC-ZZUNAME to a Field Selection Group and define the field properties (Display, Hide, Reqd. Entry, etc.) based on the business requirements. (The Field Selection Groups in the range 211-240 are reserved for customers).



## **Testing the Configuration**

Use the following steps to test the configuration:

1. Launch NWBC.

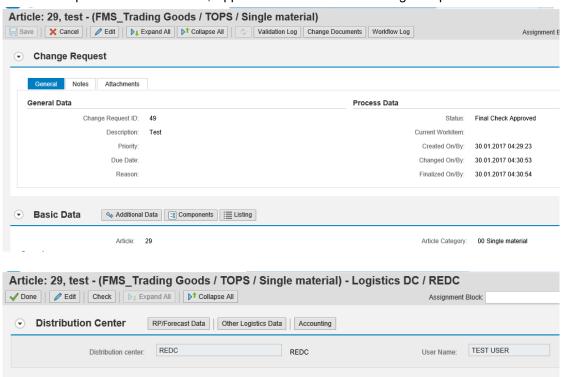


2. Select Article Processing> Create Article



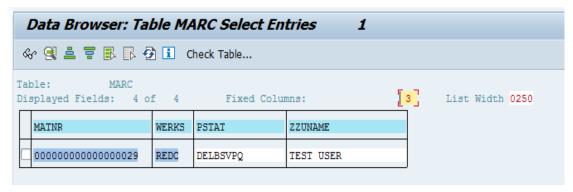


3. Enter the required details > Submit, Approve and Activate the Change Request.



4. Verify the data from ECC.

Go to MARC table >ZZUNAME is updated with the value from the Change Request for Article 29.



**Note:** If you extend the data model according to the guidelines as explained in this section, and the fields are not populated when you Activate the Data Model, refer SAP Note  $\underline{1641867}$  - Values for extension field missing after CR activation.

**Note**: To view the field ZZUNAME on the Article Master screens in ECC, separate screen enhancements are required, and the process is not explained in this document.