PUBLIC

How-To
Extend MDG for FI Contract Account with Charges and Discounts

Applicable releases:
From MDG 7.0 and from SAP S/4HANA 1511
From EHP6 for SAP ERP 6.0 and from S/4HANA 1511
From MDG 9.1 SP01 and from S/4HANA 1709

Version: 3.0
Date: July 2025

Document History

Document Version	Description
1.0	First official release of this guide (November 2017)
2.0	Layout update (October 2022)
3.0	Layout update (July 2025)

Table of Contents

1. Business Scenario

SAP Master Data Governance 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.

This How To Guide describes the solution to enhance MDG FI Contract Account with Charges and Discounts.

2. Step by Step Explanation

The following explanation shows you how to extend MDG with Charges and Discounts.

2.1. Extend MDG Data Model

Run transaction MDGIMG, and select the activity `Edit Data Model` under *Master Data Governance, Central Governance* → *General Settings* → *Data Modeling*.
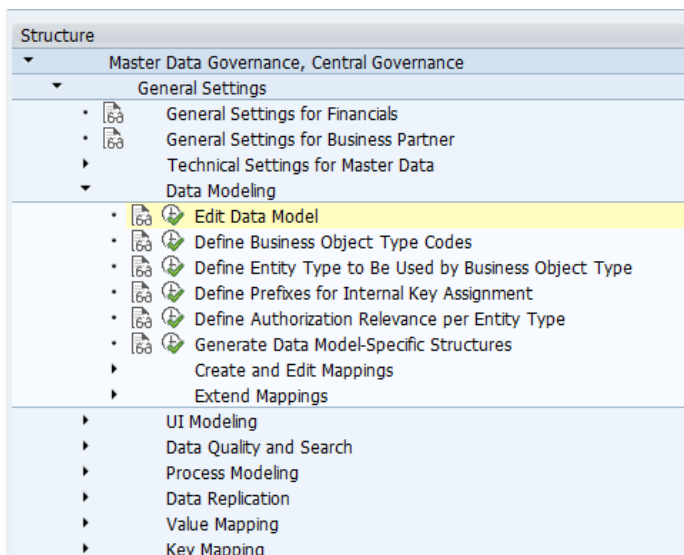
Select data model `BP`, and double-click the `Entity Types` sub-node in the dialog structure. Choose `New Entries` to create the following three new entity types:

1. FKKCHGDIS

2. FKK_CD_VF

3. FKK_CHGKY

Select entity type `FKKCHGDIS`, and double-click `Attributes` in the dialog structure. Choose the `New Entries` button to create the following new attribute:

Attribute: FKK_DATET

Data Element: CHGDISC_DATE_TO_KK

Select the `No Existence Check` checkbox.

Save your changes.

Double-click the `Relationships` sub-node in the dialog structure. Choose the `New Entries` button to create the following three new relationships:

1. From-Entity Type: FKKVKP

Relationship: HAS_CHG

To-Entity Type: FKKCHGDIS

Relation. Type: Leading

Cardinality: 1 : N

2. From-Entity Type: FKK_CD_VF

Relationship: QLF_DATEF

To-Entity Type: FKKCHGDIS

Relation. Type: Qualifying

Cardinality: 1 : N

3. From-Entity Type: FKK_CHGKY

Relationship: QLF_CHGKY

To-Entity Type: FKKCHGDIS

Relation. Type: Qualifying

Cardinality: 1 : N

FKKVKP	HAS_CHG	FKKCHGDIS	P Leading	▼ 1 1 : N ▼

FKK_CD_VF	QLF_DATEF	FKKCHGDIS	Q Qualifying	▼ 1 1 : N ▼
FKK_CHGKY	QLF_CHGKY	FKKCHGDIS	Q Qualifying	▼ 1 1 : N ▼

Save your changes. Choose `Back` and choose `Activate`. Choose `Adjust Staging Area of linked Change Requests`, and select `Yes` in the dialog box.

Change View "Entity Types": Overview

New Entries   BC Set: Change Field Values   Visualize Data Model

Dialog Structure	Data Model	BP			
▼ Inactive Data Models					
▼ Entity Types					
• Attributes	Entity Types				
• Business Object	Entity Type	Storage/Use Type	Val.Entity	Data Element	
▼ Entity Types for	CUS_DOKAR	3 Not Changeable via MDG; No ▼	No Edition ▼	DOKAR	
• Hierarchy Att	CUS_DOKNR	2 Changeable w/o Change Req... ▼	No Edition ▼	DOKNR	

2.2. Generate Structures

Run transaction MDGIMG, and select the activity `Generate Data Model-Specific Structures` under *Master Data Governance, Central Governance* → *General Settings* → *Data Modeling*.

Structure
- Master Data Governance, Central Governance
  - General Settings
    - General Settings for Financials
    - General Settings for Business Partner
    - Technical Settings for Master Data
    - Data Modeling
      - Edit Data Model
      - Define Business Object Type Codes
      - Define Entity Type to Be Used by Business Object Type
      - Define Prefixes for Internal Key Assignment
      - Define Authorization Relevance per Entity Type
      - Generate Data Model-Specific Structures
      - Create and Edit Mappings
      - Extend Mappings
    - UI Modeling
    - Data Quality and Search
    - Process Modeling
    - Data Replication
    - Value Mapping
    - Key Mapping

Select data model `BP`, and double-click the `Structures` sub-node in the dialog structure. Choose the `New Entries` button, and create the following four new entries:

Enter a package of your choice or create a new one in the customer's namespace for the entries, and save your changes. Select all `FKKCHGDIS` entity types, and choose `Generate Selected Structures`.

2.3. Add New UI Component for Charges and Discounts

2.3.1. Creation of FMP GUIBB Configuration

Run transaction SE80, and select or create the package in which the configuration will be created. Right-click the package node in the `Object Name` table, and select *Create* → *Web Dynpro* → *FPM GUIBB Configuration* in the context menu.
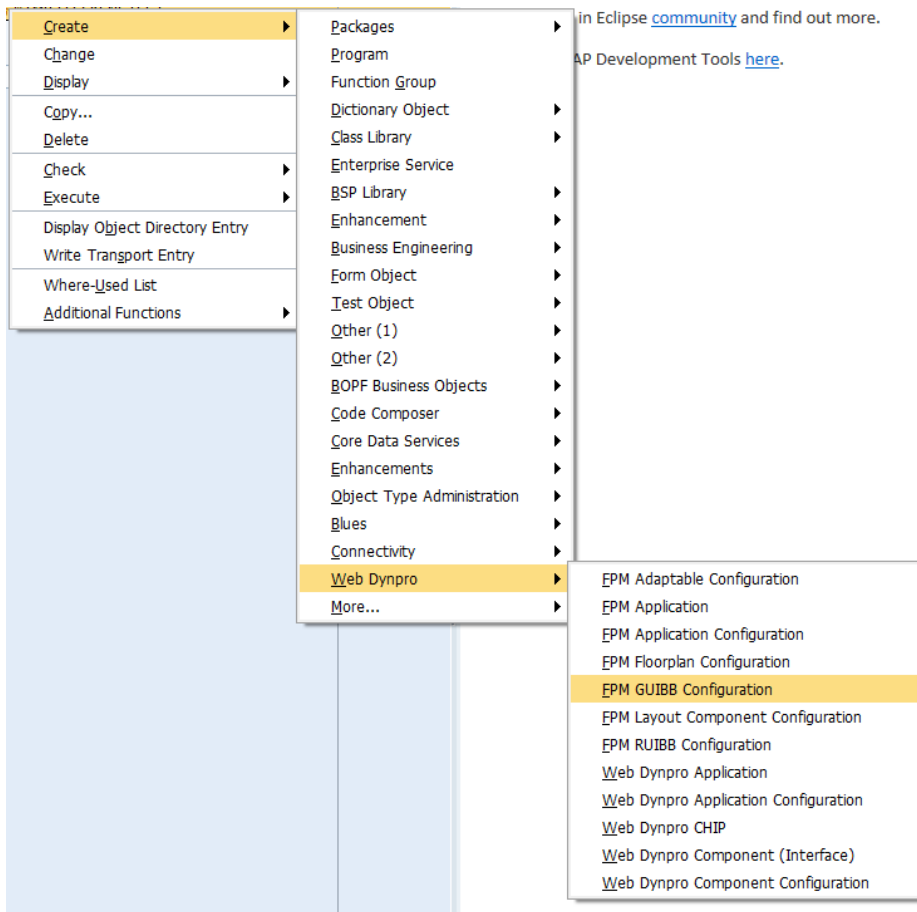
In the `Component Name` field, enter `FPM_LIST_UIBB_ATS`, and in the `Configuration ID` field, enter `ZMDG_FICA_CHARGES_DISCOUNTS`. Choose `New`.

In the dialog box, as the description, enter `List Component for Charges and Discounts`, and choose `OK`. Select a package in which to create the configuration, and choose `OK`.

In the `Feeder Class` field, enter `CL_MDG_FICA_GUIBB_CHARGES_DISC`, and choose `Edit Parameters`. Enter Component `MDGFKK`, Object Name `FKKCHGDIS`, and select the `Editable` checkbox. Choose `OK`.

In the `General Settings` area, make the following changes to the `Additional Settings`:

- delete the text in the `Title` field
- as `Table Height` value, select `Expand Container (UIBB) to Display All Rows in Table`
- set `Visible Row Count` to `0`
- set `Scroll Mode` to `Scrolling`
- set `Selection Mode` to `No Selection`

In the `General Settings` area, make the following changes to the `Table Services`:

- set `Personalization` to `Disabled`
- set `Export to Spreadsheet` to `Disabled`

For the List UIBB Schema, delete the elements `Column: BP_HEADER`, `Column: FKKVK` and `Column: FKK_VALDT` by selecting the rows and choosing the `Delete` button.

Select the row with element `Column: USMD_CHANGE_INDICATOR`, and choose the `Up` button until the entry is in the second row of the table. Select the row with element `Column: FKK_CHGKY`, and choose `Up` once (this entry should then be in the third row). Change the display type of the element `Column: USMD_CHANGE_INDICATOR` from `Input Field` to `Image`.

Display the repository by choosing the `Repositories` button in the header area.
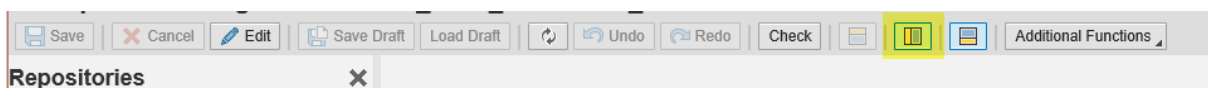
In the `Repositories` area, select the field FKK_CHGKY__TEXT, and drag and drop it to the `List UIBB Schema` table between the elements `Column: FKK_CHGKY` and `Column: FKK_CD_VF`. Display the attributes of each column by choosing the `Attributes` button in the header area.
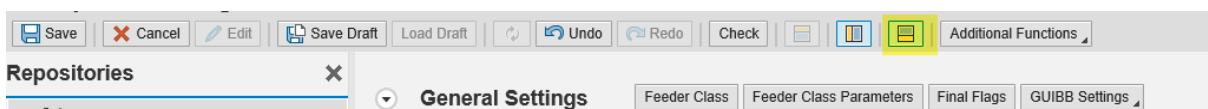
Select the row with element `Column: FPM_ROW_ACTIONS_COLUMN`. Check if there is an entry with FPM Event ID `FPM_BOL_ROW_DELETE`. If not, choose the `Action` button in the attributes area to add a new `Action` row. Enter FPM Event ID `FPM_BOL_ROW_DELETE` and Image `~Icon/Delete`. Choose the `Action` button in the attributes area another time to add a second `Action` row. Enter FPM Event ID `DISCARD_DELETE` and Image `~Icon/Undo`.

Attributes of Column: FPM_ROW_ACTIONS_COLUMN

Standard Attributes

Display Type:	Link To Action	Tooltip:	
Index:	1	Visibility:	Determined b
Header:		Position of Fixed Column:	
UI Element Width:	7%	Header Tooltip:	
Tag Name:		Context Menu ID:	

Action Assignment

Actions

FPM Event ID	Image	Label	Hide Label
FPM_BOL_ROW_DELETE	~Icon/Delete		☐
DISCARD_DELETE	~Icon/Undo		☐

Select the following elements, and enter the `UI Element Width` as follows:

`Column: FPM_ROW_ACTIONS_COLUMN`: 7%

`Column: USMD_CHANGE_INDICATOR`: 3%

`Column: FKK_CHGKY`: 10%

`Column: FKK_CD_VF`: 10%

`Column: FKK_DATET`: 10%

Select the following elements, and enter the `FPM Event ID` in the `Action Assignment` area as follows:

`Column: FKK_CHGKY`: `FPM_REFRESH (Refresh)`

`Column: FKK_CD_VF`: `FPM_REFRESH (Refresh)`

`Column: FKK_DATET`: `FPM_REFRESH (Refresh)`

Open the `Toolbar Schema` tab, and select the `Toolbar` header element. Choose the `Delete` button to delete all elements. In the dialog box, choose `OK` to confirm that all subordinate elements will be deleted as well.

Choose `Save` in the header area.

2.3.2. Creation of UI Component

Run transaction NWBC, and select `SAP_MDGFICA_MENU`. Choose `Search Contract Account`. Choose `Configure Page` in the header area.

Choose the `Additional Functions` button, and select `Create Customizing`, or `Edit Customizing` if Customizing is already available.

Choose the `Navigation & Repositories` button in the header area to display all available pages if they are not displayed initially.
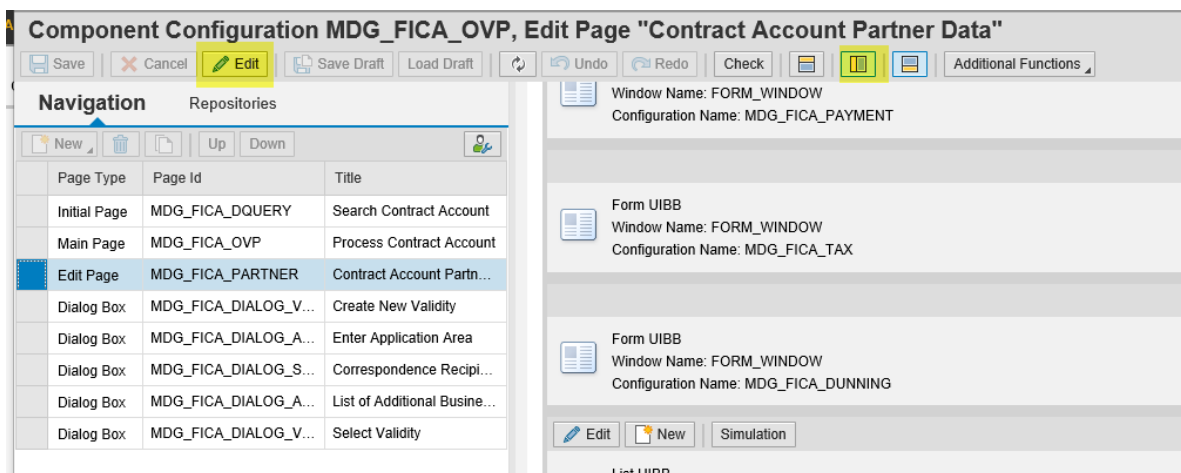
Select the row with Page ID `MDG_FICA_PARTNER`, and choose `Edit`. In the Overview Page Schema area, select `UIBB` → `List Component`.
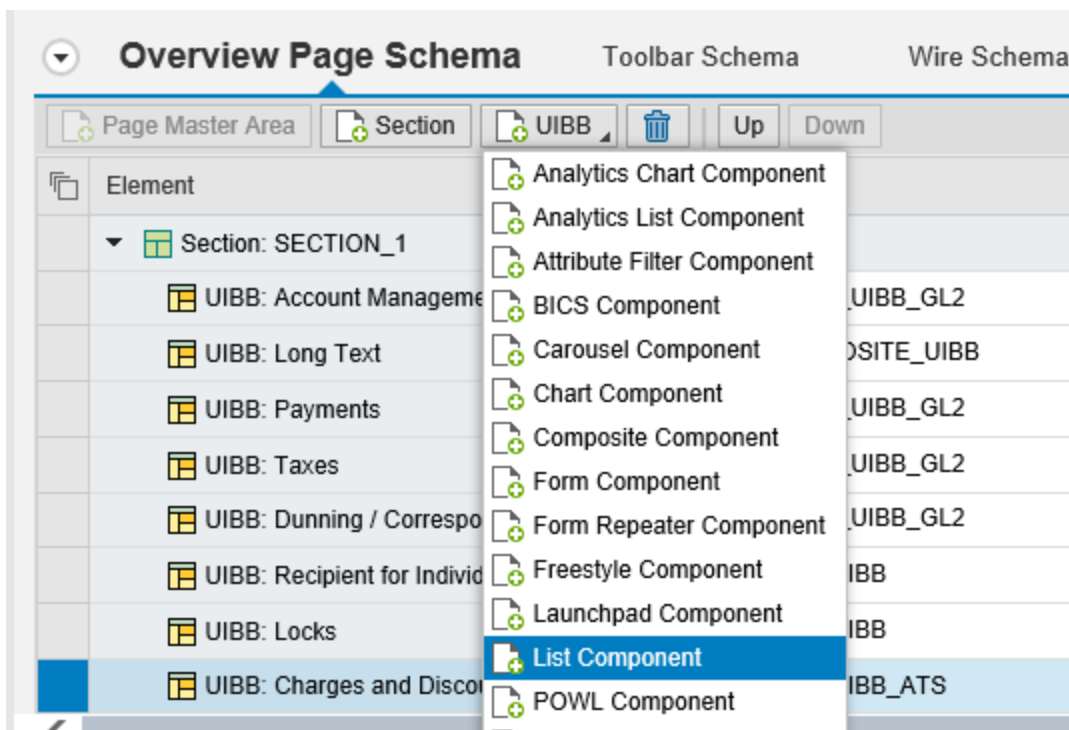
Maintain the attributes of the new UIBB element as follows:

- enter `FPM_LIST_UIBB_ATS` in the `Component` field
- enter `ZMDG_FICA_CHARGES_DISCOUNTS` in the `Config ID` field
- enter `Charges and Discounts` the `Title` field
- select `With Panel` in the dropdown list for `Rendering Type`

Attributes of UIBB: Charges and Discounts

Standard Attributes

Component:	FPM_LIST_UIBB_ATS	Title:	Charges and Discounts
Window Name:	LIST_WINDOW	Image:	
Config ID:	ZMDG_FICA_CHARGES_DISCOUNTS	Padding:	Automatic (Default)
Instance ID:		Style:	
Column:	1	Explanation Text:	
Sequence Index:	8	Explanation Document:	
Hidden Element:	Visible	Default Edit Page:	
Rendering Type:	With Panel	Default Details Page:	
Collapsed:	☐		

Open the `Toolbar Schema` tab, and select the row with element `UIBB: Charges and Discounts`. Choose `Toolbar Element`, and select `Button` in the dialog box.

Overview Page Schema	**Toolbar Schema**	Wire Schema

	Element	Enabled	Text
	▼ 🔲 UIBB: Account Management		
	🔲 Toolbar		

Maintain the attributes as follows:

- enter `Button` in the `Text` field
- enter `~Icon/AddFile` in the `Image` field
- enter `*CREA*` in the `FPM Event ID` field
- enter `FPM_LIST_UIBB_ATS` in the `Component` field
- enter `ZMDG_FICA_CHARGES_DISCOUNTS` in the `Configuration ID` field
- enter `LIST_WINDOW` in the `Interface View` field

Attributes of Element: New

Standard Attributes

Element ID:	ACTION_ID_1_CUS_	Explanation Text:	
Display Type:	Button	Enabled:	✔
Sequence Index:	1	Visibility:	Is Visible
Text:	New	Alignment:	Left
Image:	~Icon/NewItem	Add Separator:	☐
Decorative:	☐	Style:	
Tooltip:			
Hotkey:	none		
Design:	Standard		
FPM Event ID:	_CREA_|		
Action Type:	Standard	Target Page:	00
Component:	FPM_LIST_UIBB_ATS	Interface View:	LIST_WINDOW
Configuration ID:	ZMDG_FICA_CHARGES_DISCOUNTS	Instance ID:	

In the area `Event Parameters`, choose the `Parameter` button to add a new event parameter. Enter `DEFERRED_SENDING` as the parameter name, and enter `X` as the parameter value.

Event Parameters

Parameter Name	Parameter Value
DEFERRED_SENDING	X

Choose `Toolbar Element` again and select the `Edit` button in the dialog box. Choose `OK`.

Open the `Wire Schema` tab, and choose the `Wire` button to add a new element. Maintain the attributes of the wire element as follows:

- enter `FPM_LIST_UIBB_ATS` in the `Component` field
- enter `ZMDG_FICA_CHARGES_DISCOUNTS` in the `Config ID` field
- enter `FPM_LIST_UIBB_ATS` in the `Source Component` field
- enter `MDG_FICA_PARTNERS` in the `Source Config Name` field
- enter `STANDARD` in the `Port Identifier` field
- enter `CL_MDG_BS_CONNECTOR_BOL_REL` in the `Connector Class` field
- select `Lead Selection` in the dropdown menu for `Port Type`

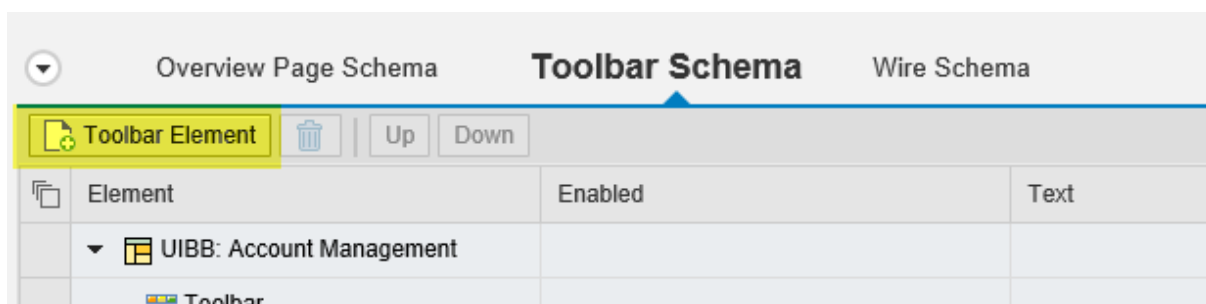|					
Wire: List MDG_FICA_...	FPM_LIST_UIBB_OLE	MDG_FICA_CROSS_PARTNER	Lead Selection	FPM_LIST_UIBB_OLE	MDG_FICA_ROOT
Wire: List ZMDG_FICA_...	FPM_LIST_UIBB_ATS	ZMDG_FICA_CHARGES_DIS...	Lead Selection	FPM_LIST_UIBB_ATS	MDG_FICA_PARTNERS

Attributes of Wire: List ZMDG_FICA_CHARGES_DISCOUNTS   Final Flag

Standard Attributes

Component:	FPM_LIST_UIBB_ATS	Srce Inst. ID:	
Config ID:	ZMDG_FICA_CHARGES_DISCOUNTS	Port Type:	Lead Selection
Instance ID:		Port Identifier:	STANDARD
Source Component:	FPM_LIST_UIBB_ATS	Connector Class:	CL_MDG_BS_CONNECTOR_BOL_REL
Source Config Name:	MDG_FICA_PARTNERS		

Connector Parameters

Relation Name:	FKKVKP2FKKCHGDISRel	Creation Mode:	Creation with Default Values (Using Template if Available)

Choose `Save` in the header menu to save your changes.

2.4. Add Mandatory Field Check for Table

Run transaction SM30, and enter `MDG_FICA_FLDGRPC` in the `Table/View` field. Choose `Maintain`. Choose `New Entries` in the header area to create the following three new entries:

1. Data Model: BP

Entity Type: FKKCHGDIS

Attribute: FKK_CD_VF

Structure Name: FKKVKP_CHGDISC_S_DI

Component Name: DATE_FROM

Field Group: 116

Table Name: FKKVKP_CHGDISC

Field Name: DATE_FROM

2. Data Model: BP

Entity Type: FKKCHGDIS

Attribute: FKK_CHGKY

Structure Name: FKKVKP_CHGDISC_S_DI

Component Name: CHGKEY

Field Group: 116

Table Name: FKKVKP_CHGDISC

Field Name: CHGKEY

3. Data Model: BP

Entity Type: FKKCHGDIS

Attribute: FKK_DATET

Structure Name: FKKVKP_CHGDISC_S_DI

Component Name: DATE_TO

Field Group: 116

Table Name: FKKVKP_CHGDISC

Field Name: DATE_TO

Choose `Save` to save your changes.

2.5. Final Result

After the execution of all steps of this guide, a new table will appear in the UI for the assigned Business Partner of the Contract Account.

Contract Account: ATEST , A 02 Steffi - Business Partner: 119 , Catwoman / Streunerweg 119 / 69168 Wiesloch - 26.09.20…

✔ Done   ↩ Undo   ↪ Redo

Standard Company Code:	Country Template DE01
Tolerance Group:	Tolerance Group 0001, 2 EUR Absolute

Paid by Contract Account:	
Own Bank Details Determination:	

Incoming Payments

Incoming Payment Method:	
Alternative Payer:	
Alternative Payer Address:	
Bank Account:	
Payment Card:	

Outgoing Payments

Outgoing Payment Method:	
Alternative Payee:	
Alternative Payee Address:	
Bank Account:	
Payment Card:	

▼ **Taxes**

General Data

Destination Country:	
Tax Type:	
Region / County Code:	
Tax Number Category 1 and 2:	
Business Place:	

Withholding Taxes

Withholding Tax Code Incoming… :	
Withholding Tax Code Outgoing… :	
Exemption Certificate:	
Exemption Certificate Valid Until:	

▼ **Dunning / Correspondence**

Dunning Control

Alternative Dunning Recipient:	
Alternative Dunning Recipient Ad… :	
Grouping:	
Dunning Procedure:	

Correspondence Control

Correspondence Variant:	
Correspondence Dunning Proced… :	
Alternative Correspondence Reci… :	
Alternative Corresp. Recipient Ad… :	
Activity:	

▼ **Recipient for Individual Correspondence Types**   ✏ Edit   📄 New | Simulation |

Actions	*Type	Type Description	Role	Alt…	Recipient	Recipient Description	Recipient Address	Activity
🗑	0008	Payment Form f…	Business Contracts	☐	117	Batman / Mangoldweg 117 / 69190 Wall…	(No Address)	

▼ **Locks**   📄 New

Actions	Status	*Process	Process Description	*Lock Reason	Lock Reason Description	*Valid From	*Valid To
🗑	🟢	03	Outgoing Payment	P	Payment Request	06.09.2017	31.12.9999

▼ **Charges and Discounts**   ✏ Edit   📄 New

Actions	Charge/Discount Key	Charges and Discount Description	Valid From	Valid To
🗑	CHARGE01	Charge01	07.09.2017	29.09.2017
🗑	DISC01	Discount01	07.09.2017	29.09.2017
🗑	CHARGE02	Charge02	09.09.2017	29.09.2017

3. Additional Information

3.1. Further Reading

Information on SAP MDG on SAP S/4HANA

- Exchange knowledge: SAP Community | Q&A | https://blogs.sap.com/tags/67837800100800004488/Blog]

- Try SAP Master Data Governance on S/4HANA for free: Trial Version

- Learn more: https://blogs.sap.com/2020/10/08/benefit-from-sap-master-data-governance-on-sap-s-4hana-2020/Latest Release] | https://blogs.sap.com/2020/03/12/upcoming-webinars-about-consolidation-and-data-quality-management-with-sap-master-data-governance-on-s-4hana/Webinars] | Help Portal | How-to Information | https://blogs.sap.com/2020/07/21/sap-master-data-governance-at-a-glance/Key Presentations]

SAP Roadmap Explorer

- Please see the roadmap for SAP Master Data Governance

Related Information

- Learn more: [Floorplan Manager for Web Dynpro ABAP](#) | [How to Adapt FPM](#) | https://blogs.sap.com/2021/03/02/how-to-create-enhance-and-adapt-floorplan-manager-applications-for-sap_ui-7.55/FPM Blog] | [How-to Information](#) | [Service Mapping Tool](#) | [SAP S/4HANA Cookbook CVI](#) |

3.2. SAP Notes

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

Note Number	Note Description
3372801	Upgrade or Conversion for Master Data Governance, Central Governance
2221398	MDG-BP/C/S/CA: (Un-)Supported Fields in Data Model BP
2847803	MDG-BP/C/S/CA: Usage of MDG Tools and Processes
2313368	Functional restrictions in MDG for Business Partner / Customer / Supplier with SAP Master Data Governance 9.0
2472845	Functional restrictions in MDG for Business Partner / Customer / Supplier with SAP Master Data Governance 9.1
2656712	Functional restrictions in MDG for Business Partner / Customer / Supplier in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809
2816557	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 1909
2925030	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2020
3070003	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2021
3220117	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2022
3374711	Functional restrictions in MDG for Business Partner / Customer / Supplier on SAP S/4HANA 2023
3043582	MDG Customer Connection 2020
3194967	MDG Customer Connection 2021 for S/4HANA 2022
3311039	MDG Customer Connection 2023
3418179	Master Data Governance: Continuous Influence