PUBLIC

How-To: Field Extension for Business Partner/Supplier/Customer in MDG Consolidation and Mass Processing

Applicable Releases:

From MDG 8.0 and from SAP S/4HANA 1610

Version 1.2

09 2024

Document History

Document Version	Description
1.0	First official release of this guide
1.1	Small adjustments
1.2	Small adjustments

Table of contents

1. Introduction

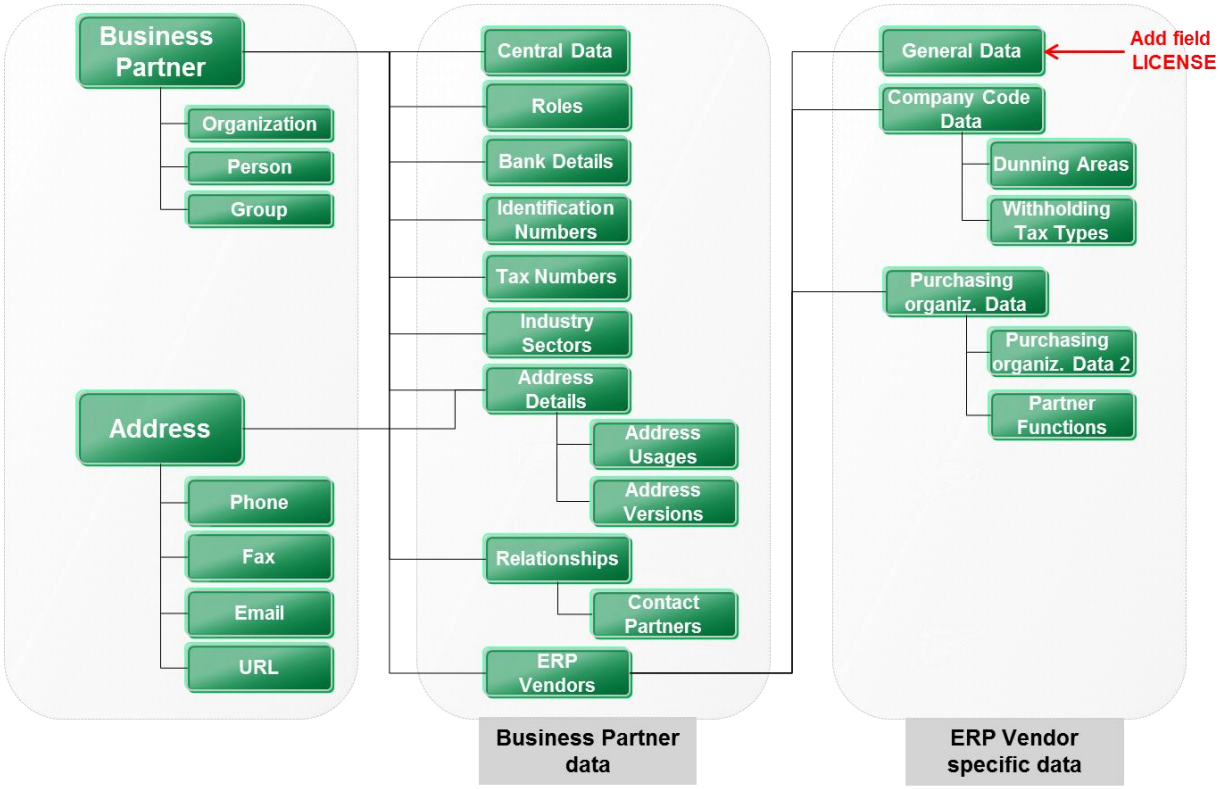
This document explains how to add a new field to the Business Partner data model.

If you have used Customizing includes (for example, INCL_EEW_BUT000) to extend your Business Partner Model, these extensions are automatically part of MDG Consolidation tables and you don't have to extend the MDG Consolidation data model.

The following scenario is complex, especially with regards to integration with SAP MDG.
We recommend that you perform all corresponding steps from the following How-To Guide before working with this one:
[How-To: Extend MDG-S / MDG-C data model by a new custom-defined field (reuse option)]

2. Scenario – New Supplier Field

You want to extend the MDG data model for Business Partner with an additional field for Supplier Data. The field should be added to the General Data entity as shown in the figure below. How to add this field is described in the Guide mentioned above. During a consolidation or mass process, the additional Supplier Field is loaded into source, process, and result tables. The consolidation or mass process like the Matching or Best Record Calculation should be able to process this new field. After activation, the value of this new field is stored in a custom Z-field.

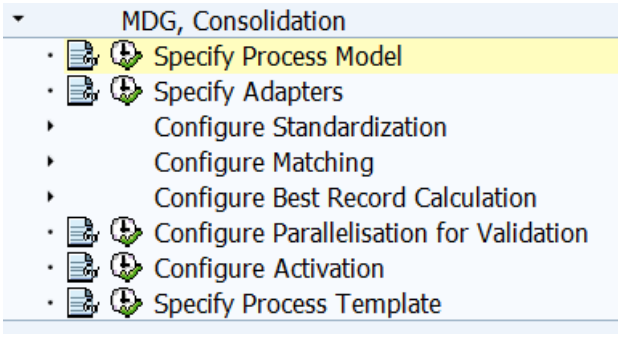


3. Step-by-step Implementation Guide

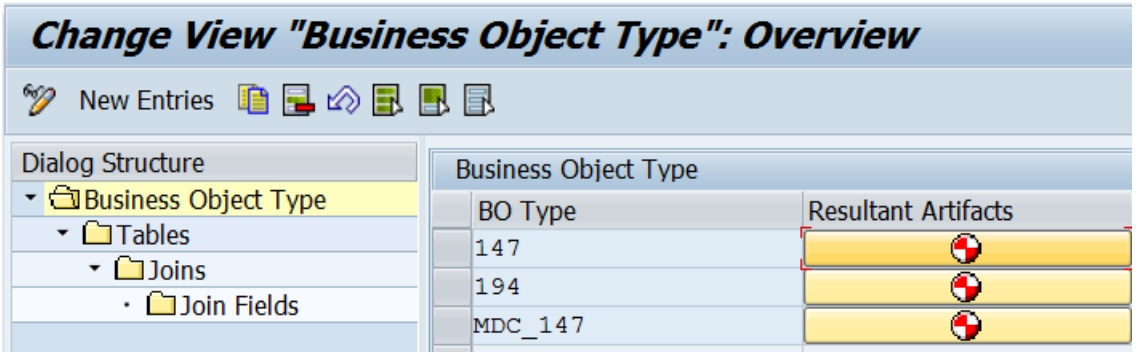
The following steps provide details on how to extend the BP data model by adding a new field, LICENSE, in an append structure, for example, ZLFA1_APPEND in table LFA1 ERP Supplier.

3.1. Extend Process Model

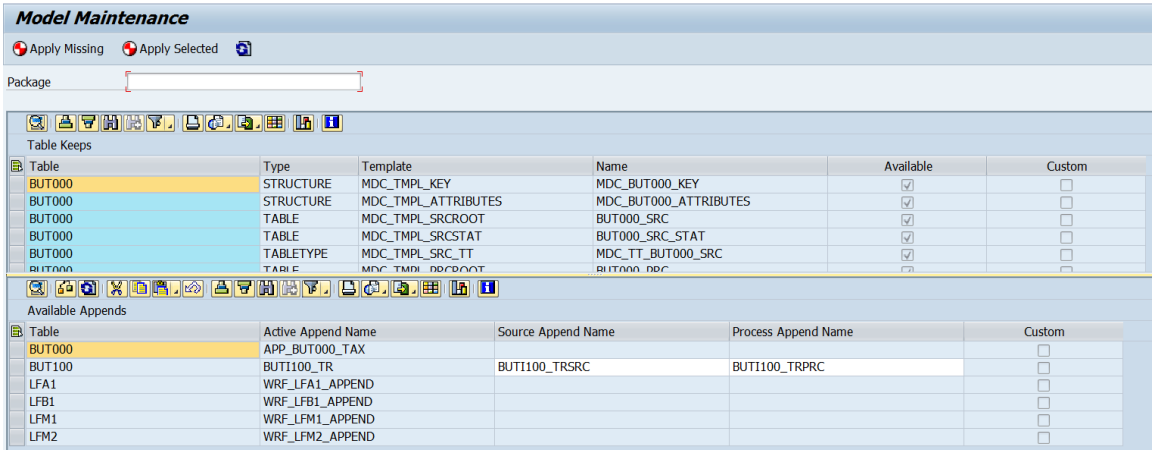
1. Start the Implementation Guide Activity Specify Process Model in the implementation guide for Consolidation (Transaction MDCIMG).



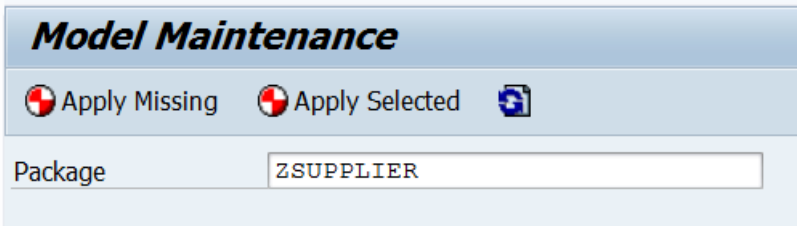
2. Select Business Object Type 147 (Business Partner) and choose Resultant Artifacts.



3. The following screen appears.



4. Select the Package in which you want to create the relevant DDIC-objects.



5. Please check if the new entries for “Source Append Name” and “Process Append Name” are unique. You will find proposals in the screen above.
   If the Customer Append Name has a length of 30 characters, then you must change the Source Append Name and the Process Append Name into unique names. You can do this by deleting the last 4 characters and enhancing it with _SRC for the Source Append Name and _PRC for the Process Append Name.
   In all other cases, you can take the proposals.

6. Select the row in Table LFA1 with the corresponding appends.

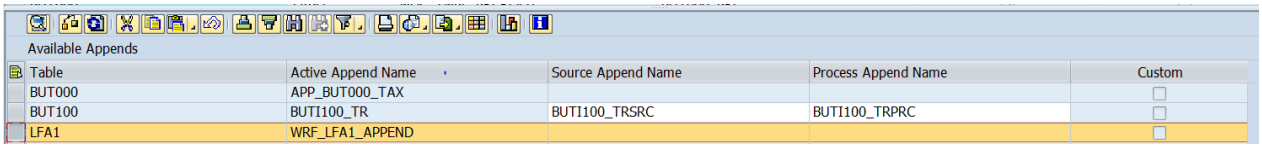
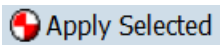

Available Appends

Table	Active Append Name	Source Append Name	Process Append Name	Custom
BUT000	APP_BUT000_TAX			
BUT100	BUTI100_TR	BUTI100_TRSRC	BUTI100_TRPRC	
LFA1	WRF_LFA1_APPEND			

7. Choose Apply Selected Templates & Appends 

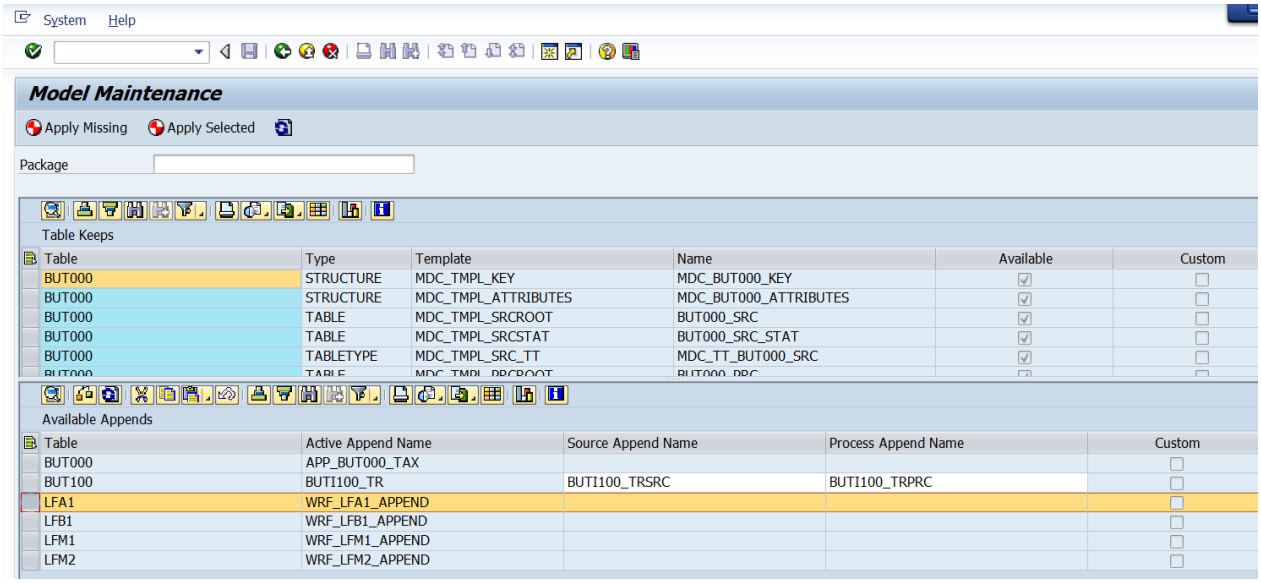


Table Keeps

Table	Type	Template	Name	Available	Custom
BUT000	STRUCTURE	MDC_TMPL_KEY	MDC_BUT000_KEY	☑	
BUT000	STRUCTURE	MDC_TMPL_ATTRIBUTES	MDC_BUT000_ATTRIBUTES	☑	
BUT000	TABLE	MDC_TMPL_SRCROOT	BUT000_SRC	☑	
BUT000	TABLE	MDC_TMPL_SRCSTAT	BUT000_SRC_STAT	☑	
BUT000	TABLETYPE	MDC_TMPL_SRC_TT	MDC_TT_BUT000_SRC	☑	

Available Appends

Table	Active Append Name	Source Append Name	Process Append Name	Custom
BUT000	APP_BUT000_TAX			
BUT100	BUTI100_TR	BUTI100_TRSRC	BUTI100_TRPRC	
LFA1	WRF_LFA1_APPEND			
LFB1	WRF_LFB1_APPEND			
LFM1	WRF_LFM1_APPEND			
LFM2	WRF_LFM2_APPEND			

Now all relevant DDIC-objects relevant for consolidation using the new Supplier Append Structure have been created.

Fields using a “Large Object Binary” data type

If your custom field uses a “Large Object Binary” related data type (e.g., a string, blob, raw binary or similar), you need to enhance the create and redefine the Business Partner Data Access class.

Create a new class ZCL_MDC_DATA_BP that is inherited from class CL_MDC_DATA_BP. The new class will then be used in consolidation processes involving Process Model 147 (Business Partner). The following method must be redefined:

- IF_MDC_DATA~ CONTAINS_LOB_DATA
  A redefinition of this method is only required if the new custom field is using a “large binary object” data type. In this case, ensure that the method returns “abap_true” for the affected table(s).

3.2. Extend MDG for writing new fields into Change Request

The previously mentioned prerequisite extensibility guide for MDG “Extend MDG-S / MDG-C Data Model by a New Field (Reuse Option)” describes the steps required for extending MDG-S / MDG-C with a new field.

For LFA1 please execute the following steps from the Guide above:

- Section Extend LFA1:
  - Add the structure ZLFA1_APPEND to table LFA1
  - Add the structure ZLFA1_APPEND to structure VMDS_EI_VMD_CENTRAL_DATA
  - Add the structure ZLFA1_APPEND to structure VMDS_EI_VMD_CENTRAL_DATA_XFLAG

Activate the changes.

- Section *Adjust Staging Area of Linked Change Requests*
- Section *Define SMT mapping*:
  - Mapping SUPPL_BP_VENGEN_2API
  - Mapping SUPPL_BP_VENGEN_2STA
- Enhance the UI with the New Field.

3.3. Data Dictionary Objects

This section contains all DDIC-objects not automatically created/generated and used in the example implementation.

- Data Element ZLICENSE CHAR10
- Structure ZLFA1_APPEND with field ZLICENSE type ZLICENSE
- Enhance Table LFA1 with Append Structure ZLFA1_APPEND

Result

The process model for Business Partner has been extended with a new field.

The consolidation or mass process result can be written into the active database table and into Change Requests.

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
3372801	Upgrade or Conversion for Master Data Governance, Central Governance
2221398	MDG-BP/C/S/CA: (Un-)Supported Fields in Data Model BP
2847807	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
3428179	Master Data Governance: Continuous Influence
3134600	MDG-M: Supported fields in Data Model MM
1806108	Functional restrictions in MDG-M in MDG7 (incl. SP02)
2129261	Functional restrictions in MDG-M in MDG8
2284745	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.0
2461516	Functional Restrictions in MDG for Material with SAP Master Data Governance 9.1
2656693	Functional Restrictions in MDG for Material in SAP Master Data Governance 9.2 and on SAP S/4HANA 1809
2816571	Functional Restrictions in MDG for Material on SAP S/4HANA 1909
2948873	Functional Restrictions in MDG for Material on SAP S/4HANA 2020
3070012	Functional Restrictions in MDG for Material on SAP S/4HANA 2021
3219945	Functional Restrictions in MDG for Material on SAP S/4HANA 2022
3374998	Functional Restrictions in MDG for Material on SAP S/4HANA 2023
2950412	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2020
3066855	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2021
3225098	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2022
3381795	Functional restrictions in MDG Process Analytics on SAP S/4HANA 2022
2479869	Usage of Lean Classification with SAP Master Data Governance
1619534	How to Create, Enhance and Adapt FPM Applications
1637249	MDG: Information for efficient message processing
2105467	MDG Performance
2561461	Scope of support for SAP Master Data Governance (MDG)
1637249	MDG: Information for efficient message processing