



PUBLIC

How-To: Run Master Data Governance Together With IS Oil

Applicable Releases:

From EHP6 for SAP ERP 6.0 and from S/4HANA 1511 (up to S/4HANA 2022 for Material parts)

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1	INTRODUCTION	5
2	SCOPE OF VALIDATION	5
2.1	Validation Scenarios	5
2.2	Scenario Sequence.....	6
2.3	User Interface	6
2.3.1	UI Enhancements for Material	6
2.3.2	UI View in MM03	8
2.3.3	UI Enhancements for Supplier	8
2.3.4	UI View in XK03	9
2.3.5	UI Enhancements for Customer	9
2.3.6	UI View in XD03	10
3	DESIGN DETAILS DOCUMENTATION.....	11
3.1	Data Model Design.....	11
3.2	Guide to the Implementation	11
4	CUSTOMIZING – SYSTEM SETUP O&G EXTENSION FOR MDG	12
4.1	Activation of Business Functions (TA SFW5):	12
4.2	Customizing MDG-Material	12
4.2.1	Entity Types	12
4.2.2	Attributes	13
4.2.3	Structures for MDG Data Model	13
4.2.4	MDG Structures	15
4.2.5	Unified Product API Structures.....	17
4.2.6	Mapping	18
4.2.7	Customizing Link Actions with UI Application and Business Activity	21
4.2.8	Customizing Link Actions with Business Activity.....	21
4.3	Customizing MDG-Supplier and Customer (TA MDGIMG, Model BP).....	21
4.3.1	Entity Types	22
4.3.2	Attributes	22
4.3.3	Structures	23
4.3.4	Mapping	25
4.3.5	Customizing Link Actions with UI Application and Business Activity	28
4.3.6	Customizing Link Actions with Business Activity.....	28
4.4	Custom UI Configuration	29
4.4.1	Material	29
4.4.2	Supplier/Customer	31
4.5	MDG Replication	34
4.5.1	Material	34
4.5.2	Supplier	36
4.5.3	Customer	37

5 ADDITIONAL INFORMATION	39
5.1 Further Reading	39
5.1.1 Information on SAP MDG on SAP S/4HANA	39
5.1.2 SAP Roadmap Explorer	39
5.1.3 Related Information	39
5.2 SAP Notes.....	39

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 run IS-OIL and MDG business functions in a single system environment.

2 Scope of Validation

The scope of the validation covers specific scenarios from both MDG and IS-OIL solutions. The validation is based on SAP ECC 6.0 EhP8.

For the validation, we have activated most of the IS-OIL and MDG business functions in a single system environment.

Note: S/4HANA simplification may result in requiring some different adjustments.

Note: please see this SAP Notes for industry-related details on MDG:

- ECC: [1688458 - MDG together with SAP Oil and Gas](#)
- S/4HANA: [2392135 - SAP Master Data Governance on SAP S/4HANA \(central governance\) in combination with certain business functions for industries](#)

After activation of the relevant business functions, the MDG objects Vendor/Supplier, Customer and Material with IS-OIL extensions by selecting representative attributes and segments and additional ERP standard attributes are enhanced:

MDG Domain	Segment	Extended by ECC standard attributes?	Extended by IS-OIL specific attributes?
Material	MARA, MARC	Yes	Yes
Customer	KNA1	No	Yes
Vendor/Supplier	LFM1	No	Yes

2.1 Validation Scenarios

For the validation we have selected the following scenarios which represent an end-to-end process of the IS-OIL downstream capabilities including the MDG processes to create master data:

MDG Master Data Processes:

- Create and change material with IS-OIL extensions through MDG
- Create and change vendor with IS-OIL extensions through MDG

- Create and change customer with IS-OIL extensions through MDG
- Maintenance of Additional Attributes:
- Maintain additional attributes of objects created through MDG using classic transactions (MM01/02, XD01/02, XK01/02)
- IS-OIL Business Processes:
- Basic Procure-to-pay cycle (Purchase Order, Goods Receipt, and Invoice)
 - Basic Sales cycle (Sales Order, Goods Issue, and Invoice)

2.2 Scenario Sequence

The selected business processes represent a whole end-to-end process. For full functionality the single process steps must be executed in a specific order.

- Create material
- Set QCI defaults for the new material
- Create pricing conditions for the new material
- Create initial stock entry for the new material
- Create vendor
- Create customer
- Create purchase order
- Perform goods receipt
- Create sales order
- Perform goods issue

2.3 User Interface

2.3.1 UI Enhancements for Material

For the Material UI you need to deep-copy the UI component configuration as described in the MDG-M extensibility guide [Extend Master Data Governance Material User Interface](#).

Do not copy the CR_SECTION containing the USMD* configurations as we want to keep the standard UIs here. Screenshots of the final screens are shown below:

MARA:

The screenshot shows the SAP MARA 'Basic Data' screen. At the top, there's a 'Basic Data' tab and an 'Edit' button. Below the tabs, there's a section titled 'General Data' containing various input fields. A red box highlights a section at the bottom titled 'Oil & Gas MARA Fields' which contains two fields: 'Material tax group:' and 'Transfer sign:'. The 'Transfer sign:' field has a dropdown menu showing 'SAP standard procedure'.

Sales [Edit](#)

General Data

Cross-Distribution-Chain Material Status:	<input type="checkbox"/>	<input type="text"/>	<input type="button" value="i"/>
Competitor:	<input type="checkbox"/>		
Qualifies for Discount in Kind:	<input type="checkbox"/>	Not eligible for discount in kind	

Shipping

Transportation Group:	<input type="checkbox"/>	<input type="text"/>
-----------------------	--------------------------	----------------------

Oil & Gas Fields

Product compat.grp.:	<input type="checkbox"/>	<input type="text"/>
----------------------	--------------------------	----------------------

MARC:

Plant: General Data [Edit](#)

General Data

Logistics Handling Group:	<input type="text"/>	<input type="text"/>
Plant-Specific Material Status:	<input type="text"/>	<input type="text"/>
Profit Center:	<input type="text"/>	<input type="text"/>
Serial Number Profile:	<input type="text"/>	<input type="text"/>
Batch Management:	<input type="checkbox"/>	<input type="text"/>
Documentation Required:	<input type="checkbox"/>	<input type="text"/>
Negative Stocks in Plant Allowed:	<input type="checkbox"/>	<input type="text"/>

Oil & Gas MARC Fields

UoM Group:	<input type="text"/>	<input type="text"/>
Conversion Group:	<input type="text"/>	<input type="text"/>
Oil content %:	0,00	<input type="text"/>
Excise Duty Group:	<input type="text"/>	<input type="text"/>

2.3.2 UI View in MM03

The screenshot shows the SAP MM03 interface for oil-specific data entry. The top navigation bar includes tabs for 'Basic data 2', 'Oil-specific data' (which is selected), 'Sales: sales org. 1', and 'Sales: sales org. 2'. Below the tabs, there's a title 'Parallel inventory management and excise duty processing'. The form contains several input fields with red placeholder text:

- Base Unit of Measure: KG **MARA-MEINS**
- UoM Group: UOM **UOM GROUP FOR MDG TESTING MARC-UOMGR**
- Conv. Group: Z534 **API_4A 15 °C PRODUCTS IN DENSITY MARC-UMRSL**
- Air Buoy, Fact.: 0,0 **MARC-ABFAC**
- Fix. density: **OIB_A08-FDICH** (with a red arrow pointing to the field)
- Conv.coeff: **OIB_A08-COEFF**
- Excise Duty Group: MD **MARC-OITAXGRP**
- Oil content %: 100,00 **Cust.tariff nr 123 MARC-OIEDCODE**
- Localization - Brazil: **MARA-OIHMTXGR**

2.3.3 UI Enhancements for Supplier

LFM1 table (BP_PORG entity):

UIBB: BS_SP_PURCH_ORG_CONDITIONS

The screenshot shows the SAP UI enhancement for the BP_PORG entity. It displays a table with various conditions and specific fields for oil suppliers. A red box highlights the 'IS-OIL Specific Fields (LFN1)' section, which includes the following fields:

- Split invoice verif:
- Handling Type:
- Vendor group (refinery/mill/other):
- Invoice cycle: 0

2.3.4 UI View in XK03

Display Vendor: General Data (Enhanced)

Standard

Vendor	300401	Kubasch Oil	Walldorf
--------	--------	-------------	----------

Purchasing Data (IS-OIL) Miscellaneous Additional Data

Control Data IS Oil

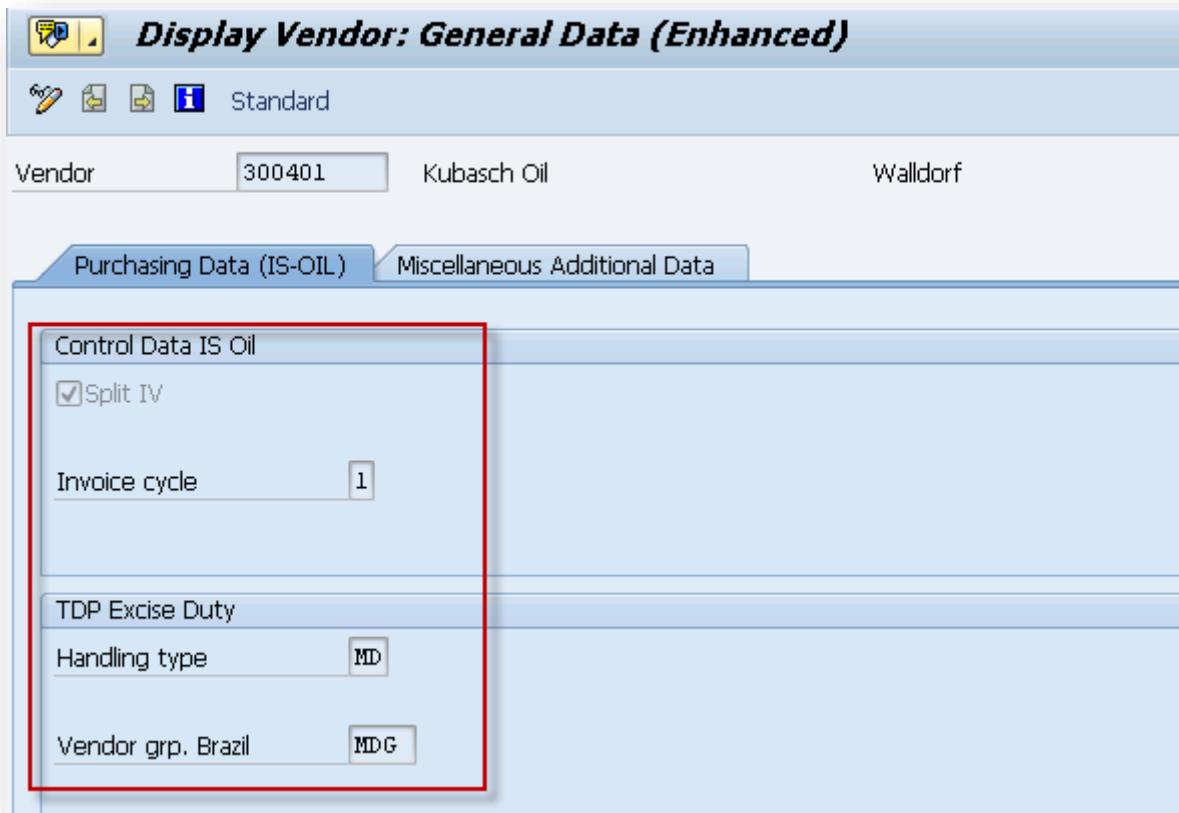
Split IV

Invoice cycle 1

TDP Excise Duty

Handling type MD

Vendor grp. Brazil MDG



2.3.5 UI Enhancements for Customer

KN1 table (BP_CUSGEN entity):

UIBB: BS CU GEN CONTROL

ERP Customer: Control Data

Multiple Assignment

Reason:
Standard:

Administrative Data

ERP Customer: 117
Account Group: Customer (general)

Account Control

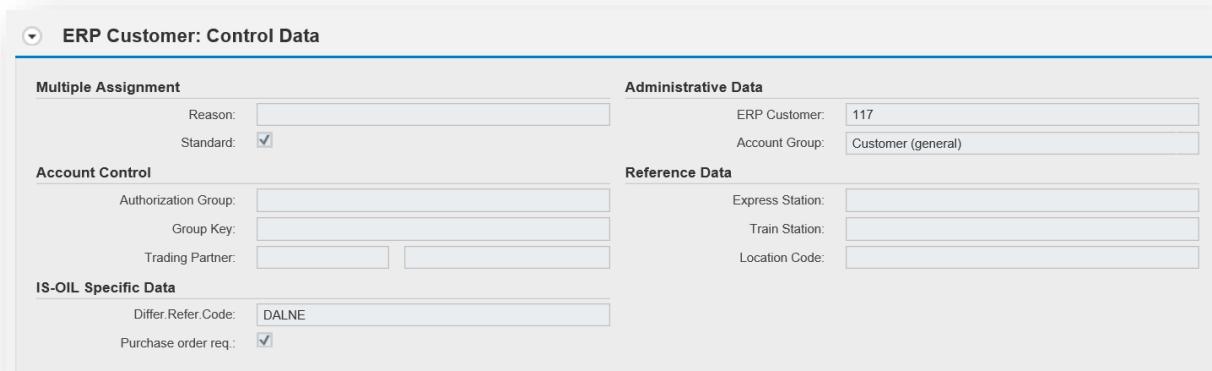
Authorization Group:
Group Key:
Trading Partner:

Reference Data

Express Station:
Train Station:
Location Code:

IS-OIL Specific Data

Differ.Refer.Code: DALNE
Purchase order req.:



2.3.6 UI View in XD03

Display Customer: General Data (Enhanced)

Other Customer General Data Company Code Data Sales Area Data Additional Data IS-OIL BDRP

Customer 100300 Kubaesch Customer Hamburg

IS-OIL Additional Data, General IS-OIL Sales /Pricing/Contact data IS-OIL Excise Duty IS-OIL Localization USA/Brazil IS-OIL Shipping

IS-Oil Reference data

Diff.Ref.Code	01000
---------------	-------

IS-OIL Additional Data, General IS-OIL Sales /Pricing/Contact data IS-OIL Excise Duty IS-OIL Localization USA/Brazil IS-OIL Shipping

IS-Oil Sales

<input checked="" type="checkbox"/> Purchase order req.	Last order no. 24
---	-------------------

IS-Oil Pricing

<input type="checkbox"/> Head off/branch
--

IS-Oil Contact details

Department 0002	Function
-----------------	----------

IS-OIL Additional Data, General IS-OIL Sales /Pricing/Contact data IS-OIL Excise Duty IS-OIL Localization USA/Brazil IS-OIL Shipping

IS-Oil Excise Duty processing

Handling Type MD	ED pricing key EX	Customer grp 1 MDG
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IS-OIL Additional Data, General IS-OIL Sales /Pricing/Contact data IS-OIL Excise Duty IS-OIL Localization USA/Brazil IS-OIL Shipping

IS-Oil Localization (USA / Brazil)

Partner funct.	Customer tax gr MDG
----------------	---------------------

IS-OIL Additional Data, General IS-OIL Sales /Pricing/Contact data IS-OIL Excise Duty IS-OIL Localization USA/Brazil IS-OIL Shipping

IS-Oil Shipping

Cust.compat.group	03
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3 Design Details Documentation

3.1 Data Model Design

The basis for the data model design are the data models delivered with SAP Master Data Governance. The used models are Material Master (MM) and Business Partner (BP). The BP model is used for both Supplier and Customer.

The table below lists the relevant database tables, attributes and additional information. The column "Enhanced in MDG" shows which attributes have been added for the validation:

#	Scenario	Database Tables	Fields Validated	Enhanced in MDG	MDG Entity
1	Create Customer	KNA1	OIDRC OID_POREQD	Yes Yes	BP_CUSGEN
2	Create Material	MARA	OIGROUPNAM OITRIND OIHMTXGR	Yes Yes Yes	MARASALES MATERIAL MATERIAL
		MARC	OITAXGRP OIOILCON UOMGR UMRSL	Yes Yes Yes Yes	MARCBASIC
3	Create Supplier	LFM1	OIHANTYP OIA_SPLTIV OIHVGROUP OIMATCYC	Yes Yes Yes Yes	BP_PORG

3.2 Guide to the Implementation

The implementation of the IS-OIL specific fields as described before is done by utilizing the extensibility framework of MDG. Details for the extensibility can be found in various extensibility guides available on the MDG Community: <https://community.sap.com/topics/master-data-governance/how-to> .

Details of the individual steps are described in the next chapters.

4 Customizing – System Setup O&G Extension for MDG

Most of the necessary steps to be performed are customizing steps.

4.1 Activation of Business Functions (TA SFW5):

Ensure that the Business Function Set for Oil & Gas is chosen and that the relevant MDG business functions according to the configuration guides are activated. Otherwise follow the configuration guide of the relevant domain.

4.2 Customizing MDG-Material

Use transaction MDGIMG, General Settings → Data Modeling → Edit Data Model and data model MM.

Change View "Inactive Data Models": Overview					
Dialog Structure		Inactive Data Models			
Inactive Data Models		Data Model	Description (medium text)	ActiveArea	Prefix/Namespace
OG	Chart of Accounts and Org. Units	PARTNER			
BP	Business Partner				
IS	FSSC internal self service	IS_PPACCS			
MM	Material	MATERIAL			

4.2.1 Entity Types

Change View "Entity Types": Overview							
Dialog Structure		Data Model					
Entity Types		Entity Type	Storage/Use Type	Val.Entity	Data Element	Is Hry Type	Val.Hier.
LGNUM	Not Changeable via MDG; No	No	▼ No Edition	▼ LGNUM	No	▼ No Edition	▼ Key Cannot Be Changed; No
LGORT	Not Changeable via MDG; No	No	▼ No Edition	▼ LGORT_D	No	▼ No Edition	▼ Key Cannot Be Changed; No
LGPLA	Not Changeable via MDG; No	No	▼ No Edition	▼ LGPLA	No	▼ No Edition	▼ Key Cannot Be Changed; No
LGPRO	Not Changeable via MDG; No	No	▼ No Edition	▼ LGPRO	No	▼ No Edition	▼ Key Cannot Be Changed; No
LGTYP	Not Changeable via MDG; No	No	▼ No Edition	▼ LGTYP	No	▼ No Edition	▼ Key Cannot Be Changed; No
LSOBS	Not Changeable via MDG; No	No	▼ No Edition	▼ LSOBS	No	▼ No Edition	▼ Key Cannot Be Changed; No
LTKZA	Not Changeable via MDG; No	No	▼ No Edition	▼ MLGN_LTKZA	No	▼ No Edition	▼ Key Cannot Be Changed; No
LTKZE	Not Changeable via MDG; No	No	▼ No Edition	▼ MLGN_LTKE	No	▼ No Edition	▼ Key Cannot Be Changed; No
LNWKB	Changeable w/ Change Reque.	No	▼ No Edition	▼ MARD_KOBER	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARAPURCH	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARAQTMN	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARASALES	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCATP	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCBASIC	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCCSTNG	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCFRCST	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCFRGRTR	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCFPRPAR	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCMRPPC	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCMREL	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCMRPMI	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCMRPP	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCMRSP	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCPURCH	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCOQMN	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCSALES	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARSCSTORE	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARCWRSRD	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARDMRP	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MARDSTOR	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MATCHGMNG	Changeable via Change Reque.	No	▼ No Edition	▼ MDG_BS_MAT_CRNO	No	▼ No Edition	▼ Key Can Be Changed; Inter!
MATERIAL	Changeable via Change Reque.	No	▼ No Edition	▼ MATNR	No	▼ No Edition	▼ Key Can Be Changed; Inter!
MBENACTNG	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MBENCTNG	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MBENNLAC	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No
MBENNLVAL	Changeable via Other Entity.	No	▼ No Edition	No	No	▼ No Edition	▼ Key Cannot Be Changed; No

4.2.2 Attributes

MATERIAL entity:

Change View "Attributes": Overview						
Dialog Structure		Data Model	MM	Entity Type		
		Entity Type		MATERIAL		
Attributes						
Attribute	Key Field	Data Element	Req.Entry Field	Curr./UoM Fi...	Search Help	No Existence...
VOLEHMARA	<input type="checkbox"/>	VOLEH	<input type="checkbox"/>		VOLEH_F4_VOLUME	<input type="checkbox"/>
VOLUMMARA	<input type="checkbox"/>	VOLUM	<input type="checkbox"/>	VOLEHMARA		<input type="checkbox"/>
WRKST	<input type="checkbox"/>	WRKST	<input type="checkbox"/>			<input checked="" type="checkbox"/>
XCHPFMARA	<input type="checkbox"/>	XCHPF	<input type="checkbox"/>			<input type="checkbox"/>
XGCHPMARA	<input type="checkbox"/>	XGCHP	<input type="checkbox"/>			<input type="checkbox"/>
ZZOIHMTXG	<input type="checkbox"/>	OIH_J1B_MTXGR	<input type="checkbox"/>			<input type="checkbox"/>
ZZOITRIND	<input type="checkbox"/>	OIH_TRIND	<input type="checkbox"/>			<input type="checkbox"/>

MARASALES entity:

Change View "Attributes": Overview						
Dialog Structure		Data Model	MM	Entity Type		
		Entity Type		MARASALES		
Attributes						
Attribute	Key Field	Data Element	Req.Entry Field	Curr./UoM Fi...	Search Help	No Existence...
ERGEI	<input type="checkbox"/>	ERGEI	<input type="checkbox"/>		GEWEI_F4_MASS	<input type="checkbox"/>
ERGEW	<input type="checkbox"/>	ERGEW	<input type="checkbox"/>	ERGEI		<input type="checkbox"/>
ERVOE	<input type="checkbox"/>	ERVOE	<input type="checkbox"/>		VOLEH_F4_VOLUME	<input type="checkbox"/>
ERVOL	<input type="checkbox"/>	ERVOL	<input type="checkbox"/>	ERVOE		<input type="checkbox"/>
GEWTO	<input type="checkbox"/>	GEWTO	<input type="checkbox"/>			<input type="checkbox"/>
KUNNR	<input type="checkbox"/>	KUNNR	<input type="checkbox"/>			<input type="checkbox"/>
KZGVH	<input type="checkbox"/>	KZGVH	<input type="checkbox"/>			<input type="checkbox"/>
MFRGRMARA	<input type="checkbox"/>	MFRGR	<input type="checkbox"/>			<input type="checkbox"/>
MSTAV	<input type="checkbox"/>	MSTAV	<input type="checkbox"/>			<input type="checkbox"/>
MSTDV	<input type="checkbox"/>	MSTDV	<input type="checkbox"/>			<input type="checkbox"/>
STFAK	<input type="checkbox"/>	STFAK	<input type="checkbox"/>			<input type="checkbox"/>
TRAGR	<input type="checkbox"/>	TRAGR	<input type="checkbox"/>			<input type="checkbox"/>
VHART	<input type="checkbox"/>	VHART	<input type="checkbox"/>			<input type="checkbox"/>
VOLTO	<input type="checkbox"/>	VOLTO	<input type="checkbox"/>			<input type="checkbox"/>
ZZOIGROUP	<input type="checkbox"/>	OIG_PCG	<input type="checkbox"/>			<input type="checkbox"/>

MARCBASIC entity:

Change View "Attributes": Overview						
Dialog Structure		Data Model	MM	Entity Type		
		Entity Type		MARBASIC		
Attributes						
Attribute	Key Field	Data Element	Req.Entry Field	Curr./UoM Fi...	Search Help	No Existence...
FPRFM	<input type="checkbox"/>	FPRFM	<input type="checkbox"/>			<input type="checkbox"/>
LOGGR	<input type="checkbox"/>	LOGGR	<input type="checkbox"/>			<input type="checkbox"/>
MARCLVORM	<input type="checkbox"/>	LVOK	<input type="checkbox"/>			<input type="checkbox"/>
MMSTA	<input type="checkbox"/>	MMSTA	<input type="checkbox"/>			<input type="checkbox"/>
MSTD	<input type="checkbox"/>	MSTD	<input type="checkbox"/>			<input type="checkbox"/>
SERNP	<input type="checkbox"/>	SERAIL	<input type="checkbox"/>			<input type="checkbox"/>
XCHPF	<input type="checkbox"/>	XCHPF	<input type="checkbox"/>			<input type="checkbox"/>
ZZOIOLCO	<input type="checkbox"/>	OIH_OILCON	<input type="checkbox"/>			<input type="checkbox"/>
ZZOITXGR	<input type="checkbox"/>	OIH_TAXGRP	<input type="checkbox"/>			<input type="checkbox"/>
ZZUMRSL	<input type="checkbox"/>	OIB_UNRSL	<input type="checkbox"/>			<input type="checkbox"/>
ZZUOMGR	<input type="checkbox"/>	OIB_UOMGR	<input type="checkbox"/>			<input type="checkbox"/>

4.2.3 Structures for MDG Data Model

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. Then the structures will be generated automatically with activation of the data model.

Change View "Prefix and Packages for Model Enhancements": Overview

Prefix and Packages for Model Enhancements		
Data Model	Prefix/Namespace	Package for Customer Include
MM	ZMDGMM	ZMDGMM

General Settings → Data Modeling → Generate Data Model-Specific Structures

Change View "Packages for Generated Structures on Model Level": Overview

Packages for Generated Structures on Model Level		
Data Model	Description (medium text)	Package
0G	Chart of Accounts and Org. Units	/MDG/FIN_MDGF_STRUCTURES
BP	Business Partner	ZMDGBP
IS	FSSC internal self service	/MDG/UISS_MDG_STRUCTURES
MM	Material	/MDGMM/MDG_BS_MAT_STRUCTURES

Change View "Structures": Overview

Structures				
Entity Type	Where Used	Prefix/Namespace	Name of Structure	Package
MATCHGMNG	Field Properties for Attrib.	/MDGMM/	FP_MATCHGMNG	
MATCHGMNG	Key Fields of an Entity Type	/MDGMM/	KF_MATCHGMNG	
MATCHGMNG	Data Extraction	/MDGMM/	EX_MATCHGMNG	
MATERIAL	PDF-Based Forms	2MDGMM	PDF_MATERIAL	
MATERIAL	SNT Mapping for Replication	2MDGMM	MATERIAL	
MATERIAL	Mapping of Reuse Active Area	2MDGMM	PP_MATERIAL	
MATERIAL	Data Replication Framework	2MDGMM	DRF_MATERIAL	
MATERIAL	Search Application	2MDGMM	ES_MATERIAL	
MATERIAL	Field Control for Attributes	2MDGMM	FC_MATERIAL	
MATERIAL	Field Properties for Attrib.	2MDGMM	FP_MATERIAL	
MATERIAL	Key Fields of an Entity Type	2MDGMM	KF_MATERIAL	
MATERIAL	Data Extraction	2MDGMM	EX_MATERIAL	
MBEWACTNG	PDF-Based Forms	/MDGMM/	PDF_MBEWACTNG	
MBEWACTNG	Mapping of Reuse Active Area	/MDGMM/	PP_MBEWACTNG	

Change View "Structures": Overview			
Dialog Structure		Data Model	
		MM	
Structures			
Entity Type	Where Used	Prefix/Namespace	Name of Structure
MARAQMNG	Search Application	/MDGMM/	DL_MARAQMNG
MARAQMNG	Field Control for Attributes	/MDGMM/	FC_MARAQMNG
MARAQMNG	Field Properties for Attrib.	/MDGMM/	FP_MARAQMNG
MARAQMNG	Key Fields of an Entity Type	/MDGMM/	KF_MARAQMNG
MARAQMNG	Data Extraction	/MDGMM/	EX_MARAQMNG
MARASALES	PDF-Based Forms	ZMDGMM	PDF_MARASALES
MARASALES	Mapping of Reuse Active Area	/MDGMM/	PP_MARASALES
MARASALES	Search Application	/MDGMM/	ES_MARASALES
MARASALES	Field Control for Attributes	ZMDGMM	FC_MARASALES
MARASALES	Field Properties for Attrib.	/MDGMM/	FP_MARASALES
MARASALES	Key Fields of an Entity Type	ZMDGMM	KF_MARASALES
MARASALES	Data Extraction	ZMDGMM	EX_MARASALES
MARCATP	PDF-Based Forms	/MDGMM/	PDF_MARCATP

Change View "Structures": Overview			
Dialog Structure		Data Model	
		MM	
Structures			
Entity Type	Where Used	Prefix/Namespace	Name of Structure
MARCATP	Data Extraction	/MDGMM/	EX_MARCATP
MARCBASIC	PDF-Based Forms	ZMDGMM	PDF_MARCBASIC
MARCBASIC	Mapping of Reuse Active Area	/MDGMM/	PP_MARCBASIC
MARCBASIC	Search Application	/MDGMM/	ES_MARCBASIC
MARCBASIC	Field Control for Attributes	ZMDGMM	FC_MARCBASIC
MARCBASIC	Field Properties for Attrib.	/MDGMM/	FP_MARCBASIC
MARCBASIC	Key Fields of an Entity Type	ZMDGMM	KF_MARCBASIC
MARCBASIC	Data Extraction	ZMDGMM	EX_MARCBASIC
MARCCSTNG	PDF-Based Forms	/MDGMM/	PDF_MARCCSTNG

4.2.4 MDG Structures

Since the material DB-table(s) have been extended the following MDG data structures have to be extended too:

- MDG_BS_MAT_S_MARA and MDG_BS_MAT_S_MARC
- CMD_BS_MAT_S_MARA and CMD_BS_MAT_S_MARC
- MDG_BS_MAT_S_MARA_UI and MDG_BS_MAT_S_MARC_UI
- CMD_BS_MAT_S_MARA_UI and CMD_BS_MAT_S_MARC_UI
- MDG_BS_MAT_S_MARA_X and MDG_BS_MAT_S_MARC_X
- CMD_BS_MAT_S_MARA_X and CMD_BS_MAT_S_MARC_X

The first two structures (**MDG_BS_MAT_S_*** and **CMD_BS_MAT_S_***) should have been automatically adjusted (depending on the approach taken for the extension of material DB-tables). The **_UI** and **_X** structures may need manual handling since there might be no automated adjustment of these. When using In-app Extensibility also structure **CMD_BS_MAT_S_*_X** should have been automatically adjusted.

Add missing IS Fields to UI and Change(X)-Structures in SE11:

Structure: MDG_BS_MAT_S_MARA_UI, append structure ZZOILMARA

Structure		MDG_BS_MAT_S_MARA_UI		Active		
Short Description		MDG BS MAT: Material Master Basic Data UI-Properties				
Attributes		Components		Input Help/Check		Currency/quantity fields
Predefined Type						
Component	Typing Method	Component Type	Data Type	Length	Decim...	Short Description
IMATN	Types	DIMP_MDG_FLDSTA..	CHAR	1	0	Status of dynpro field (+, -, ., *)
PICNUM	Types	DIMP_MDG_FLDSTA..	CHAR	1	0	Status of dynpro field (+, -, ., *)
OVLPN	Types	DIMP_MDG_FLDSTA..	CHAR	1	0	Status of dynpro field (+, -, ., *)
ADSPC_SPC	Types	DIMP_MDG_FLDSTA..	CHAR	1	0	Status of dynpro field (+, -, ., *)
.APPEND	Types	ZZOILMARA		0	0	IS-OI append
OIGROUPNAM	Types	MDG_BS_MAT_FLDS..	CHAR	1	0	Field status (req. entry, opt. entry, display, hidden)
OITRIND	Types	MDG_BS_MAT_FLDS..	CHAR	1	0	Field status (req. entry, opt. entry, display, hidden)
OIHMTXGR	Types	MDG_BS_MAT_FLDS..	CHAR	1	0	Field status (req. entry, opt. entry, display, hidden)

Structure: MDG_BS_MAT_S_MARA_X, append structure ZZOILMARA_X

Structure		MDG_BS_MAT_S_MARA_X		Active		
Short Description		MDG BS MAT: Material Master Basic Data DATA_X Structure				
Attributes		Components		Input Help/Check		Currency/quantity fields
Predefined Type						
Component	Typing Method	Component Type	Data Type	Length	Decim...	Short Description
PICNUM	Types	XFELD	CHAR	1	0	Checkbox
OVLPN	Types	XFELD	CHAR	1	0	Checkbox
ADSPC_SPC	Types	XFELD	CHAR	1	0	Checkbox
.APPEND	Types	ZZOILMARA_X		0	0	IS-OI Append
OIGROUPNAM	Types	MDG_BS_MAT_FLDS..	CHAR	1	0	Field status (req. entry, opt. entry, display, hidden)
OITRIND	Types	MDG_BS_MAT_FLDS..	CHAR	1	0	Field status (req. entry, opt. entry, display, hidden)
OIHMTXGR	Types	MDG_BS_MAT_FLDS..	CHAR	1	0	Field status (req. entry, opt. entry, display, hidden)

Structure: MDG_BS_MAT_S_MARC_UI, append structure ZZOILMARC_UI

Structure		MDG_BS_MAT_S_MARC_UI		Active	
Short Description		MDG BS MAT: Material Master 'Plant Data' UI-Properties			
Attributes		Components		Input Help/Check	
Predefined Type					
Component	Typing Method	Component Type	Data Type	Length	Decim... Short Description
MULTIPLE_EKGRP	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)
REF_SCHEMA	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)
MIN_TROC	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)
MAX_TROC	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)
TARGET_STOCK	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)
.INCLUDE	Types	▼ SI_MDG_BS_MAT_S	...	0	0 DIMP Extension for MDG: MARC
/SAPMP/TOLPRPL	Types	▼ DIMP_MDG_FLDSTA	CHAR	1	0 Status of dynpro field (+, , *)
/SAPMP/TOLPRMI	Types	▼ DIMP_MDG_FLDSTA	CHAR	1	0 Status of dynpro field (+, , *)
PROFIL	Types	▼ DIMP_MDG_FLDSTA	CHAR	1	0 Status of dynpro field (+, , *)
VERS_CSEG	Types	▼ DIMP_MDG_FLDSTA	CHAR	1	0 Status of dynpro field (+, , *)
VERS_ACTIVE	Types	▼ DIMP_MDG_FLDSTA	CHAR	1	0 Status of dynpro field (+, , *)
.APPEND	Types	▼ ZZOILMARC_UI	...	0	0 IS_Oil append
OITAXGRP	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)
OIOILCON	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)

Structure: MDG_BS_MAT_S_MARC_X, append: ZZOILMARC_X

Structure		MDG_BS_MAT_S_MARC_X		Active	
Short Description		MDG BS MAT: Material Master 'Plant Data' DATA_X Structure			
Attributes		Components		Input Help/Check	
Predefined Type					
Component	Typing Method	Component Type	Data Type	Length	Decim... Short Description
PROFIL	Types	▼ XFIELD	CHAR	1	0 Checkbox
VERS_CSEG	Types	▼ XFIELD	CHAR	1	0 Checkbox
VERS_ACTIVE	Types	▼ XFIELD	CHAR	1	0 Checkbox
.APPEND	Types	▼ ZZOILMARC_X	...	0	0 IS_Oil append
OITAXGRP	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)
OIOILCON	Types	▼ MDG_BS_MAT_FLDS	CHAR	1	0 Field status (req. entry, opt. entry, display, hidden)

4.2.5 Unified Product API Structures

Starting from S/4HANA 2023, the Unified Product API (UPAPI) CL_CMD_PROD_DATA_API is used instead of calling the classes cl_mdg_bs_*_api for check and save the data. This requires also an extension of UPAPI structures PMD_S_PRODUCT for MARA and PMD_S_PRD_PLANT for MARC.

Additional checks for the added fields are possible with BADI_MATERIAL_CHECK. Check, if you need to use checks from function module CHECK_MATERIAL_OIL.

Note: It is important to verify the presence of SAP Notes [3462156](#), [3472661](#), [3511043](#) and [3450903](#) in the system to ensure the use for the extension fields. Check SAP Note [3371448](#) for Upgrade and Conversion to SAP S/4HANA 2023 and for more SAP Notes.

Note: Check for the enablement of these fields in the UAPI with every upgrade to a new release. If the fields are enabled, then the extensions should be removed in the PMD* structures.

Dictionary: Display Structure

The screenshot shows the SAP Dictionary interface with the title "Dictionary: Display Structure". At the top, there are several icons and menu options: Back, Forward, Home, Save, Print, Copy, Paste, Hierarchy Display, Append Structure..., and Proxy Editor. Below the title, the structure name "PRD_S_PRD_PLANT" is listed as "Active" with a short description: "Structure for PRD_PLANT node in Product Maintain Dark". The main area displays a table of components with various columns: Component, Typing Method, Component Type, Data Type, Length, Deci..., Coordinate, Short Description, and Group. The table lists numerous components, many of which have their details expanded via dropdown arrows. A red box highlights the entire structure table area.

Component	Typing Method	Component Type	Data Type	Length	Deci...	Coordinate	Short Description	Group
ISNEGATIVESTOCK..	Types	▼ XMCNG	CHAR	1	0		0 Negative stocks allowed in plant	
PRODUCTSCRITIC..	Types	▼ KZKRI	CHAR	1	0		0 Indicator: Critical part	
PRODUCTLOGISTIC..	Types	▼ LOGR	CHAR	4	0		0 Logistics handling group for workload calculation	
MATERIALFREIGHT..	Types	▼ MFRGR	CHAR	8	0		0 Material Freight Group	
ORIGINALBATCHRE..	Types	▼ VBOB_OB_RFMAT	CHAR	40	0		0 Reference Material for Original Batches	
ORIGLBATCHMANAG..	Types	▼ UCHKZ	CHAR	1	0		0 Indicator for Original Batch Management	
PRODUCTSEXCISE..	Types	▼ CMD_PRD_EXCISE_TAX_RLVNCE	CHAR	1	0		0 Excise Tax Relevance Indicator	
PRODUCTMINCONT..	Types	▼ /SCMTMS/TEMP_CONTROL_MIN	QUAN	7	2		0 Minimum Temperature	
PRODUCTMAXCONT..	Types	▼ /SCMTMS/TEMP_CONTROL_MAX	QUAN	7	2		0 Maximum Temperature	
PRODUCTCONTROLT..	Types	▼ /SCMTMS/TEMP_UOM	UNIT	3	0		0 Unit of Measure of Temperature	
PRODCTRLTEMPERA..	Types	▼ PRODCONTROLTEMPERATUREISOUNIT	CHAR	3	0		0 Product Control Temperature ISO Unit	
.INCLUDE	Types	▼ PLNT_INCL_EEW_PS	EDO	0	0		0 Extensible structure for master data product plant	
DUMMY_PLANT_INCL..	Types	▼ PLNT_INCL_EEW	CHAR	1	0		0 MD product plant extensible field element	
INIT_ATTR	Types	▼ CMD_PRD_T_FIELDNAME	II	0	0		0 Number of Field Names	
ITEMUNIQUEIDENT..	Types	▼ ITEMUNIQUEIDENTIFIERISRELEVANT	CHAR	1	0		0 IUID-Relevant	
ITEMUNIQUEIDENT..	Types	▼ ITEMUNIQUEIDENTIFIERTYPE	CHAR	10	0		0 Structure Type of UII	
EXTALLOCOFITMUN..	Types	▼ EXTALLOCOFITMUNOIDISRELEVANT	CHAR	1	0		0 External Allocation of UII	
.APPEND	Types	▼ ZMARC_OILGAS	EDO	0	0		0 Structure for IS-OIL field update in PRD_PLANT	
UMRSL	Types	▼ OIB_UMRSL	CHAR	4	0		0 Conversion Group (Oil, Natural Gas,..)	
UOMGR	Types	▼ OIB_UOMGR	CHAR	3	0		0 Unit of Measure Group (Oil, Natural Gas,...)	

4.2.6 Mapping

Extend the mappings for MARCBASIC, MARCSALES and MATERIAL.

Display IMG

Existing BC Sets BC Sets for Activity Activated BC Sets

Structure

- Master Data Governance, Central Governance
 - General Settings
 - General Settings for Material
 - 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
 - Define Package Groups
 - Extend Mappings
 - UI Modeling
 - Data Quality and Search

General Settings → Data Modeling → Extend Mappings → Extend Mappings

Dialog Structure			
Data Model [MM]			
Mapping			
Entity Type	Where Used	SMT Mapping from Active Area	SMT Mapping to Active Area
MARAPURCH	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARAQTMNG	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARASALES	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCATP	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCBASIC	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCCSTNG	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCFCRST	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCFRGTR	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCFRPAR	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCMRPFC	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCMRPLS	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCMRPMI	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCMRPPP	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCMRPPSP	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCPURCH	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCTQMNG	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCSALES	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCSTORE	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARCRKSD	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARDMRP	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MARDSTOR	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MATCHGMNG	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MATCHGMNG	Field Control for Attributes ▾	MDG_BS_MAT_MAP_2FC	
MATERIAL	Mapping of Reuse Active Area ▾	MDG_BS_MAT_MAP_2STA	MDG_BS_MAT_MAP_2PP
MATERIAL	Field Control for Attributes ▾	MDG_BS_MAT_MAP_2FC	

Mapping Example: Material MARA Fields

Mapping MDG_BS_MAT_MAP_2STA > Mapping Step MDG_BS_MAT_MARA
 Mapping Description Map MM Model from PP to Staging Aerea Package Group MDG_BS_MM

No Messages

Save | Close | Edit | Copy | Delete | Mapping

Extension
 * Owner: Customer Enhancement
 Switch:

Field Checks		Transformations		
Add	Remove	Copy	Move Up	Move Down
Order	*Transformation Type	Conditional	Chain to Preceding	
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>	
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
ZZOIHMTXG	MDG_BS_MAT_S_MARA	OIHMTXGR				<input type="checkbox"/>	OIH_J1B_MTXGR	CHAR	4	
ZZOITRIND	MDG_BS_MAT_S_MARA	OITRIND				<input type="checkbox"/>	OIH_TRIND	CHAR	1	

Mapping MDG_BS_MAT_MAP_2PP > Mapping Step MDG_BS_MAT_MARASALES
 Mapping Description Map MM Model from Staging Aerea to PP Package Group MDG_BS_MM

No Messages

Save | Close | Edit | Copy | Delete | Mapping

Extension
 * Owner: Customer Enhancement
 Switch:

Field Checks		Transformations		
Add	Remove	Copy	Move Up	Move Down
Order	*Transformation Type	Conditional	Chain to Preceding	
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>	
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
OIGROUPNAME	/MDGMM/_S_MM_PP_MARASALES	ZZOIGROUP				<input type="checkbox"/>	OIG_PCG	CHAR	8	

4.2.7 Customizing Link Actions with UI Application and Business Activity

General Settings → Process Modeling → Business Activities → Link Actions with UI Application and Business Activity: Custom Definition

Change View "Maintenance Navigation": Overview						
Maintenance Navigation						
BO Type	Action	Current UI Application Name	Current UI Configuration	Target UI Application Name	Target UI Configuration	Bus...
194	CHANGE	MDG_BS_MAT	ZZ_BS_MAT_INIT_01	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT2
194	CHANGE	MDG_BS_MAT_SEARCH	MDG_BS_MAT_SEARCH	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT2
194	CHANGE	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT1
194	CHANGE	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT2
194	CREATE	MDG_BS_MAT	ZZ_BS_MAT_INIT_01	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT1
194	CREATE	MDG_BS_MAT_SEARCH	MDG_BS_MAT_SEARCH	MDG_BS_MAT	ZZ_BS_MAT_INIT_01	MAT1
194	CREATE	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT	ZZ_BS_MAT_INIT_01	MAT1
194	CREATE	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT1
194	DELETE	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT1
194	DELETE	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT6
194	DISPLAY	MDG_BS_MAT	ZZ_BS_MAT_INIT_01	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT3
194	DISPLAY	MDG_BS_MAT_SEARCH	MDG_BS_MAT_SEARCH	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT3
194	DISPLAY	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT1
194	DISPLAY	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT3
194	LOAD	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT1
194	LOAD	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MATB
194	MASS	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MAT1
194	MASS	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	ZZ_BS_MAT_OVP_1	MATA
MDG_CARR	*	*	*	USMD_ENTITY_VALUE2	MDG_SF_APPL	SFC1
MDG_FLIGHT	*	*	*	USMD_ENTITY_VALUE2	MDG_SF_APPL_FLIGHT	SFF1
MDG_FLIGHT	MASS	*	*	USMD_MASS_CHANGE	USMD_MASS_CHANGE	SFCA
MDG_PFLI	*	*	*	USMD_ENTITY_VALUE2	MDG_SF_APPL	SFP1

4.2.8 Customizing Link Actions with Business Activity

General Settings → Process Modeling → Business Activities → Link Actions with Business Activity: Custom Definition

Change View "Maintenance Navigation": Overview						
Maintenance Navigation						
BO Type	Log. Action	Current UI Application Name	Current UI Configuration	Target UI Application Name	Target UI Configuration	Bus...
194	CHANGE	MDG_BS_MAT	BS_MAT_INIT_06	MDG_BS_MAT_OVP	Z_BS_MAT_OVP_06	MAT2
194	CHANGE	MDG_BS_MAT_SEARCH	*	MDG_BS_MAT_OVP	Z_BS_MAT_OVP_06	MAT2
194	CHANGE	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT_OVP	Z_BS_MAT_OVP_06	MAT2
194	CHANGE	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	Z_BS_MAT_OVP_06	MAT2
194	CREATE	MDG_BS_MAT	BS_MAT_INIT_06	MDG_BS_MAT_OVP	Z_BS_MAT_OVP_06	MAT1
194	CREATE	MDG_BS_MAT_SEARCH	*	MDG_BS_MAT_OVP	Z_BS_MAT_OVP_06	MAT1
194	CREATE	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	Z_BS_MAT_OVP_06	MAT1
194	DISPLAY	MDG_BS_MAT	BS_MAT_INIT_06	MDG_BS_MAT_OVP	BS_MAT_OVP_06H	MAT3
194	DISPLAY	MDG_BS_MAT_SEARCH	*	MDG_BS_MAT_OVP	BS_MAT_OVP_06H	MAT3
194	DISPLAY	USMD_EDITION_CREQUEST	USMD_EDITION_CREQUEST	MDG_BS_MAT_OVP	BS_MAT_OVP_06H	MAT3
194	DISPLAY	USMD_WF_NAVIGATION	*	MDG_BS_MAT_OVP	BS_MAT_OVP_06H	MAT3

4.3 Customizing MDG-Supplier and Customer (TA MDGIMG, Model BP)

General Settings → Data Modeling → Edit Data Model

4.3.1 Entity Types

No custom entities required for the test scope of this project as entities for KNA1 (BP_CUSGEN), LFM1 (BP_PORG) are already delivered in standard MDG delivery.

Change View "Entity Types": Overview								
Dialog Structure		Data Model	BP					
		Entity Types	Entity Type	Storage/Use Type	Val.Entity	Data Element	Is Hry Type	Val.Her.
•	Inactive Data Models		BP_CUSDUN	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Entity Types		BP_CUSFCN	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Attributes		BP_CUSGEN	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Business Object Type		BP_CUSTAX	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Entity Types for Hierarch		BP_CUSWHT	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Hierarchy Attributes		BP_CUS_CC	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Hierarchy Attributes fr		BP_DAT_TO	Not Changeable via MDG; No	No Edition	BU_DATE_TO	No	▼ No Edi
•	Relationships		BP_DUNN	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Fields of Foreign Key Rela		BP_HEADER	Changeable via Change Reque	No Edition	BU_BUSINESSPARTNER	Yes - Not Version	▼ No Edi
•	Reuse Active Areas		BP_HRCHY	Changeable via Change Reque	No Edition	BU_BUSINESSPARTNER_HIERARCHY	No	▼ No Edi
•	Prefix and Packages for Mod		BP_IDNUM	Changeable via Other Entity	No Edition		No	▼ No Edi
•	Data Model-Specific Structure		BP_IDTYPE	Not Changeable via MDG; No	No Edition	BU_ID_TYPE	No	▼ No Edi
•			BP_ID_NUM	Not Changeable via MDG; No	No Edition	BU_ID_NUMBER	No	▼ No Edi
•			BP_INDSTC	Not Changeable via MDG; No	No Edition	BU_IND_SECTOR	No	▼ No Edi
•			BP_INDSTR	Changeable via Other Entity	No Edition		No	▼ No Edi
•			BP_INDSYS	Not Changeable via MDG; No	No Edition	BU_ISTYPE	No	▼ No Edi
•			BP_MLT_AS	Changeable via Other Entity	No Edition		No	▼ No Edi
•			BP_PORG	Changeable via Other Entity	No Edition		No	▼ No Edi
•			BP_PORG2	Changeable via Other Entity	No Edition		No	▼ No Edi

4.3.2 Attributes

BP_CUSGEN entity:

Change View "Attributes": Overview							
Dialog Structure		Data Model	BP				
		Entity Type	BP_CUSGEN				
Attributes							
Attribute	Key Field	Data Element	Req.Entry Field	Curr./UoM Fi...	Search Help	No Existence...	Description
UMSA1	<input type="checkbox"/>	UNSA1	<input type="checkbox"/>	UWAER		<input checked="" type="checkbox"/>	
UWAER	<input type="checkbox"/>	UWAER	<input type="checkbox"/>			<input checked="" type="checkbox"/>	
XICMS	<input type="checkbox"/>	J_IBTCICMS	<input type="checkbox"/>			<input type="checkbox"/>	
XSUBT	<input type="checkbox"/>	J_IBTCST	<input type="checkbox"/>			<input checked="" type="checkbox"/>	
XXIPI	<input type="checkbox"/>	J_IBTCIFI	<input type="checkbox"/>			<input type="checkbox"/>	
ZZOIDRDC	<input type="checkbox"/>	OIC_DRC	<input type="checkbox"/>			<input type="checkbox"/>	Differential Reference Code (DRC)
ZZOID_POR	<input type="checkbox"/>	OID_POREQD	<input type="checkbox"/>			<input type="checkbox"/>	Purchase order required: X = Yes, Blank = No

BP_PORG entity:

Change View "Attributes": Overview							
Dialog Structure		Data Model	BP				
		Entity Type	BP_PORG				
Attributes							
Attribute	Key Field	Data Element	Req.Entry Field	Curr./UoM Fi...	Search Help	No Existence...	Description
XERSR	<input type="checkbox"/>	XERSR	<input type="checkbox"/>			<input type="checkbox"/>	
XERSY	<input type="checkbox"/>	XERSY	<input type="checkbox"/>			<input type="checkbox"/>	
XNBWY	<input type="checkbox"/>	XNBWY	<input type="checkbox"/>			<input type="checkbox"/>	
ZTERM_M	<input type="checkbox"/>	DZTERM	<input type="checkbox"/>	MDG_SUP_PAYMNTERM		<input checked="" type="checkbox"/>	
ZZOIA_SPL	<input type="checkbox"/>	OIA_SPLTIV	<input type="checkbox"/>			<input type="checkbox"/>	Indicator for split invoice verification
ZZOIHANTY	<input type="checkbox"/>	OIH_HANTYP	<input type="checkbox"/>			<input type="checkbox"/>	Excise Duty Handling Type
ZZOIHVGRO	<input type="checkbox"/>	OIH_JIB_VTXGR	<input type="checkbox"/>			<input type="checkbox"/>	Vendor group (refinery/mill/other)
ZZOIMATCY	<input type="checkbox"/>	OIA_INVCYC	<input type="checkbox"/>			<input type="checkbox"/>	Invoice cycle

4.3.3 Structures

General Settings → Data Modeling → Prefix and Packages for Model Enhancement

Enter a package for customer and supplier customizing includes (Model BP)

Prefix and Packages for Model Enhancements			
Data Model	Prefix/Namespace	Package for Customer Include	
BP	ZMDGBP	ZMDGBP	

General Settings → Data Modeling → Generate Data Model-Specific Structures

Entity Type	Where Used	Prefix/Namespace	Name of Structure	Package
BP_MLT_AS	Field Properties for Attrib.	/MDGPBX/	FP_BP_MLT_AS	/MDGPBX/MDG_BS_ECC_OBINT_STRCS
BP_MLT_AS	Key Fields of an Entity Type	/MDGPBX/	KY_BP_MLT_AS	/MDGPBX/MDG_BS_ECC_OBINT_STRCS
BP_MLT_AS	Data Extraction	ZMDGBP	EX_BP_MLT_AS	
BP_PORG	PDF-Based Forms	ZMDGBP	PDF_BP_PORG	
BP_PORG	Mapping of Reuse Active Area	/MDGPBX/	PP_BP_PORG	/MDGPBX/MDG_BS_ECC_SUPPL_STRCS
BP_PORG	Search Application	/MDGPBX/	ES_BP_PORG	/MDGPBX/MDG_BS_ECC_SUPPL_STRCS
BP_PORG	Field Control for Attributes	ZMDGBP	FC_BP_PORG	
BP_PORG	Field Properties for Attrib.	/MDGPBX/	FP_BP_PORG	/MDGPBX/MDG_BS_ECC_SUPPL_STRCS
BP_PORG	Key Fields of an Entity Type	/MDGPBX/	KY_BP_PORG	/MDGPBX/MDG_BS_ECC_SUPPL_STRCS
BP_PORG	Data Extraction	ZMDGBP	EX_BP_PORG	
BP_PORG	PDF-Based Forms	ZMDGBP	PDF_BP_PORG	

Entity Type	Where Used	Prefix/Namespace	Name of Structure	Package
BP_CUSFCN	Key Fields of an Entity Type	/MDGPBX/	C_BP_CUSFCN	/MDGPBX/MDG_BS_ECC_CUST_STRCS
BP_CUSFCN	Data Extraction	ZMDGBP	EX_BP_CUSFCN	
BP_CUSGEN	PDF-Based Forms	ZMDGBP	PDF_BP_CUSGEN	
BP_CUSGEN	Mapping of Reuse Active Area	/MDGPBX/	PP_BP_CUSGEN	/MDGPBX/MDG_BS_ECC_CUST_STRCS
BP_CUSGEN	Search Application	/MDGPBX/	ES_BP_CUSGEN	/MDGPBX/MDG_BS_ECC_CUST_STRCS
BP_CUSGEN	Field Control for Attributes	ZMDGBP	FC_BP_CUSGEN	
BP_CUSGEN	Field Properties for Attrib.	/MDGPBX/	FP_BP_CUSGEN	/MDGPBX/MDG_BS_ECC_CUST_STRCS
BP_CUSGEN	Key Fields of an Entity Type	/MDGPBX/	KY_BP_CUSGEN	/MDGPBX/MDG_BS_ECC_CUST_STRCS
BP_CUSGEN	Data Extraction	ZMDGBP	EX_BP_CUSGEN	
BP_CUSTAX	PDF-Based Forms	ZMDGBP	PDF_BP_CUSTAX	

Add IS Fields to UI and Change(X)-Structures in SE11.

Customer:

CMDS_EI_VMD_CENTRAL_DATA

Structure		CMDS_EI_VMD_CENTRAL_DATA	Active				
Short Description		Ext. Interface: Central Customer Data					
Attributes		Components		Input Help/Check		Currency/quantity fields	
Predefined Type							
Component	Typing Method	Component Type	Data Type	Length	Decim...	Short Description	
PSOO2	Types	▼ PSOO1	CHAR	50	0	Description	
PSOO3	Types	▼ PSOO1	CHAR	50	0	Description	
PSOO4	Types	▼ PSOO1	CHAR	50	0	Description	
PSOO5	Types	▼ PSOO1	CHAR	50	0	Description	
.APPEND	Types	▼ ZZOILKNA1	BBP	0	0	MDG IS-OIL append	
OIDRC	Types	▼ OIC_DRC	CHAR	5	0	Differential Reference Code (DRC)	
OID_POREQD	Types	▼ OID_POREQD	CHAR	1	0	Purchase order required: X = Yes, Blank = No	

CMDS_EI_VMD_CENTRAL_DATA_XFLAG

Structure		CMDS_EI_VMD_CENTRAL_DATA_XFLAG	Active				
Short Description		Ext. Interface: Central Customer Data / X-Fields					
Attributes		Components		Input Help/Check		Currency/quantity fields	
Predefined Type							
Component	Typing Method	Component Type	Data Type	Length	Decim...	Short Description	
PSOO5	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	
.APPEND	Types	▼ ZZOILKNA1_X	BBP	0	0	MDG IS-OIL append	
OIDRC	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	
OID_POREQD	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	

Supplier:

VMDS_EI_PURCHASING_DATA

Structure		VMDS_EI_PURCHASING_DATA	Active				
Short Description		Ext. Interface: Purchasing Organization / Data Fields					
Attributes		Components		Input Help/Check		Currency/quantity fields	
Predefined Type							
Component	Typing Method	Component Type	Data Type	Length	Decim...	Short Description	
INCO2_L	Types	▼ INCO2_L	CHAR	70	0	Incoterms Location 1	
INCO3_L	Types	▼ INCO3_L	CHAR	70	0	Incoterms Location 2	
.APPEND	Types	▼ ZZOILPORG	BBP	0	0	MDG IS-OIL append	
OIHANTYP	Types	▼ OIH_HANTYP	CHAR	2	0	Excise Duty Handling Type	
OIA_SPLTIV	Types	▼ OIA_SPLTIV	CHAR	1	0	Indicator for split invoice verification	
OIHVGROUP	Types	▼ OIH_J1B_VTXGR	CHAR	4	0	Vendor group (refinery/mil/other)	
OIMATCYC	Types	▼ OIA_INVCYC	NUMC	1	0	Invoice cycle	

VMDS_EI_PURCHASING_DATAx

Structure		VMDS_EI_PURCHASING_DATAx	Active				
Short Description		Ext. Interface: Purchasing Organization / X-Fields					
Attributes		Components	Input Help/Check		Currency/quantity fields		
Predefined Type							
Component	Typing Method	Component Type	Data Type	Length	Decim...	Short Description	
INCO2_L	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	
INCO3_L	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	
.APPEND	Types	▼ ZZOILPORG_X	□	0	0	MDG IS-OIL append	
OIHANTYP	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	
OIA_SPLTIV	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	
OIHVGROUP	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	
OIMATCYC	Types	▼ BAPIUPDATE	CHAR	1	0	Updated information in related user data field	

NOTE: In case of the following fields, you need to maintain a foreign key relationship in the append structure in order to provide the correct input help (F4-Help) on the UI:

Customer Field	Component	Type	Length	Appending table
OIDRC	OIC_DRC	CHAR	5	CMDS_EI_VMD_CENTRAL_DATA
OIHANTYP	OIH_HANTYP	CHAR	2	VMDS_EI_PURCHASING_DATA
OIMATCYC	OIA_INVCYC	NUMC	1	VMDS_EI_PURCHASING_DATA

4.3.4 Mapping

Dialog Structure				Data Model	BP
Data Models		Mapping			
Entity Type	Where Used	SMT Mapping from Active Area	SMT Mapping to Active Area		
BP_CPGEN	Mapping of Reuse Active Area	▼ MDG_BS_BP_MAP_2STA	BP_BP_CPGEN_2API		
BP_CUSDUN	Mapping of Reuse Active Area	▼ CUST_BP_CUSDUN_2STA	CUST_BP_CUSDUN_2API		
BP_CUSFCN	Mapping of Reuse Active Area	▼ CUST_BP_CUSFCN_2STA	CUST_BP_CUSFCN_2API		
BP_CUSGEN	Mapping of Reuse Active Area	▼ CUST_BP_CUSGEN_2STA	CUST_BP_CUSGEN_2API		
BP_CUSTAX	Mapping of Reuse Active Area	▼ CUST_BP_CUSTAX_2STA	CUST_BP_CUSTAX_2API		
BP_CUSWHT	Mapping of Reuse Active Area	▼ CUST_BP_CUSWHT_2STA	CUST_BP_CUSWHT_2API		
BP_CUS_CC	Mapping of Reuse Active Area	▼ CUST_BP_CUS_CC_2STA	CUST_BP_CUS_CC_2API		
BP_DUNN	Mapping of Reuse Active Area	▼ SUPPL_BP_DUNN_2STA	SUPPL_BP_DUNN_2API		
BP_HEADER	Mapping of Reuse Active Area	▼ MDG_BS_BP_MAP_2STA	BP_BP_HEADER_2API		
BP_IDNUM	Mapping of Reuse Active Area	▼ MDG_BS_BP_MAP_2STA	BP_BP_IDNUM_2API		
BP_INDSTR	Mapping of Reuse Active Area	▼ MDG_BS_BP_MAP_2STA	BP_BP_INDSTR_2API		
BP_PORG	Mapping of Reuse Active Area	▼ SUPPL_BP_PORG_2STA	SUPPL_BP_PORG_2API		
BP_PORG2	Mapping of Reuse Active Area	▼ SUPPL_BP_PORG2_2STA	SUPPL_BP_PORG2_2API		
BP_REL	Mapping of Reuse Active Area	▼ MDG_BS_BP_MAP_2STA	BP_BP_REL_2API		
BP_ROLE	Mapping of Reuse Active Area	▼ MDG_BS_BP_MAP_2STA	BP_BP_ROLE_2API		

General Settings → Data Modeling → Extend Mappings → Extend Mappings

Mapping to Active area (direction MDG → Supplier):

Mapping CUST_BP_CUSGEN_2API > Mapping Step CMDS_EI_VMD_CENTRAL_DATA
 Mapping Description Customer central data to API Package Group MDG_BS_ECC_CUST

No Messages

Save | Close | Edit | Copy | Delete | Mapping ↻

Extension
 * Owner: Customer Enhancement
 Switch:

Field Checks		Transformations		
Add	Remove	Copy	Move Up	Move Down
Order	*Transformation Type	Conditional	Chain to Preceding	Switch
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>	
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 Pla
		OIDRC	MDG_BS_CUST_BP_CUSGEN	ZZOIDRC			<input type="checkbox"/>	OIC_DRC	CHAR	5	
		OID_POREQD	MDG_BS_CUST_BP_CUSGEN	ZZOID_POR			<input type="checkbox"/>	OID_POREQD	CHAR	1	

Mapping Example: Customer KNA1 Fields

Mapping to Active Area (direction MDG → Customer)

Mapping CUST_BP_CUSGEN_2API > Mapping Step CMDS_EI_VMD_CENTRAL_DATA
 Mapping Description Customer central data to API Package Group MDG_BS_ECC_CUST

No Messages

Save | Close | Edit | Copy | Delete | Mapping ↻

Extension
 * Owner: Customer Enhancement
 Switch:

Field Checks		Transformations		
Add	Remove	Copy	Move Up	Move Down
Order	*Transformation Type	Conditional	Chain to Preceding	Switch
00001	Field Mapping	<input type="checkbox"/>	<input type="checkbox"/>	
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 Pla
		OIDRC	MDG_BS_CUST_BP_CUSGEN	ZZOIDRC			<input type="checkbox"/>	OIC_DRC	CHAR	5	
		OID_POREQD	MDG_BS_CUST_BP_CUSGEN	ZZOID_POR			<input type="checkbox"/>	OID_POREQD	CHAR	1	

Display Mapping Step: CMDS_EI_VMD_CENTRAL_DATA_XFLAG (Extension Mode)

Mapping CUST_BP_CUSGEN_2API > Mapping Step CMDS_EI_VMD_CENTRAL_DATA_XFLAG
 Mapping Description Customer central data to API Package Group MDG_BS_ECC_CUST

No Messages

[Save](#) [Close](#) [Edit](#) [Copy](#) [Delete](#) [Mapping](#)

Extension

* Owner: Customer Enhancement

Switch:

[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"/>		
					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
		OIDRC	MDG_BS_CUST_BP_CUSGEN_X	ZZOIDRC			<input type="checkbox"/>	BAPIUPDATE	CHAR	1		Updated information in
		OID_POREQD	MDG_BS_CUST_BP_CUSGEN_X	ZZOID_POR			<input type="checkbox"/>	BAPIUPDATE	CHAR	1		Updated information in

Mapping to Staging Area (direction Customer → MDG)

Display Mapping Step: MDG_BS_CUST_BP_CUSGEN (Extension Mode)

Personal Help

Mapping CUST_BP_CUSGEN_2STA > Mapping Step MDG_BS_CUST_BP_CUSGEN
 Mapping Description Mapping Customer general data to MDG staging Package Group MDG_BS_ECC_CUST

No Messages

[Save](#) [Close](#) [Edit](#) [Copy](#) [Delete](#) [Mapping](#)

Extension

* Owner: Customer Enhancement

Switch:

[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"/>		
					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
		ZZOIDRC	CMDS_EI_VMD_CENTRAL_DATA	OIDRC			<input type="checkbox"/>	OIC_DRC	CHAR	5		Differential Reference Code (DRC)
		ZZOID_POR	CMDS_EI_VMD_CENTRAL_DATA	OID_POREQD			<input type="checkbox"/>	OID_POREQD	CHAR	1		Purchase order required: X = Yes, Blank =

Mapping to Staging Area (direction Supplier → MDG)

Mapping SUPPL_BP_PORG_2STA > Mapping Step MDG_BS_SUPPL_BP_PORG
Mapping Description Supplier: purchasing organization data Package Group MDG_BS_ECC_SUPPL

No Messages

Save | Close | Edit | Copy | Delete | Mapping ↻

Extension
* Owner: Customer Enhancement
Switch:

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"/>		
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
ZZOIA_SPL	VMDS_EI_PURCHASING_DATA	OIA_SPLTIV					<input type="checkbox"/>	OIA_SPLTIV	CHAR	1		Indicator for split invoice verification
ZZOIHANTY	VMDS_EI_PURCHASING_DATA	OIHANTYP					<input type="checkbox"/>	OIH_HANTYP	CHAR	2		Excise Duty Handling Type
ZZOIHVGR0	VMDS_EI_PURCHASING_DATA	OIHGROUP					<input type="checkbox"/>	OIH_J1B_VTXGR	CHAR	4		Vendor group (refinery/mill/other)
ZZOIMATCY	VMDS_EI_PURCHASING_DATA	OIMATCYC					<input type="checkbox"/>	OIA_INVCYC	NUMC	1		Invoice cycle

Mapping SUPPL_BP_PORG_2API > Mapping Step VMDS_EI_PURCHASING
Mapping Description Supplier: purchasing organization data Package Group MDG_BS_ECC_SUPPL

No Messages

Save | Close | Edit | Copy | Delete | Mapping ↻

Extension
* Owner: Customer Enhancement
Switch:

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"/>		
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
OIA_SPLTIV	MDG_BS_SUPPL_BP_PORG	ZZOIA_SPL					<input type="checkbox"/>	OIA_SPLTIV	CHAR	1		Indicator for split invoice verification
OIHANTYP	MDG_BS_SUPPL_BP_PORG	ZZOIHANTY					<input type="checkbox"/>	OIH_HANTYP	CHAR	2		Excise Duty Handling Type
OIHGROUP	MDG_BS_SUPPL_BP_PORG	ZZOIHVGR0					<input type="checkbox"/>	OIH_J1B_VTXGR	CHAR	4		Vendor group (refinery/mill/other)
OIMATCYC	MDG_BS_SUPPL_BP_PORG	ZZOIMATCY					<input type="checkbox"/>	OIA_INVCYC	NUMC	1		Invoice cycle

4.3.5 Customizing Link Actions with UI Application and Business Activity

General Settings → Process Modeling → Business Activities → Link Actions with UI Application and Business Activity: Custom Definition

4.3.6 Customizing Link Actions with Business Activity

General Settings → Process Modeling → Business Activities → Link Actions with Business Activity: Custom Definition

4.4 Custom UI Configuration

4.4.1 Material

Use the application configuration `BS_MAT_OVP` of the Web Dynpro Application `MDG_BS_MAT_OVP` as a template for the creation of UI configuration:

1. Select this in `SE80` in package `MDG_BS_MAT_UI` in folder `Web Dynpro/Web Dynpro Application/MDG_BS_MAT_OVP/Applic. Configurations`.
2. Start the configurator for `BS_MAT_OVP` or `BS_MAT_OVP_06` and click on *Continue in Display Mode*.
3. Click on the configuration `BS_MAT_OVP_LAYOUT_06`.
4. Go to *Additional Functions/Deep Copy*. Click on *Expand Configurable Components*.
 - a. You should name all your target UI configurations with prefix `Z##_`. Use Button *Change Affixes*
 - b. Uncheck all elements you want to reuse (not copy). Usually, you can uncheck all the components belonging to the popups like *Add Plant*, *Copy Plant*, etc.
5. **Uncheck `USMD_CR_OVERVIEW`.** The Change Request Header UIBB must not be copied due to technical reasons.
6. Click on *Start Deep-Copy*.
7. Navigate to your application configuration, `Z_BS_MAT_OVP_06`. Then click on your OVP configuration `Z_BS_MAT_OVP_LAYOUT_06`.

Now you can change your UI. Use breadcrumbs to go back to your `OVP_LAYOUT`. Configure 'Basic Data' UIBB, Sales UIBB and Plant: General Data UIBB, and add a new group(s) for Gas & Oil fields:

Basic Data UIBB:

Overview Page Schema			
Page Master Area		Toolbar Schema	Wire Schema
Element	Component	Config ID	Window Name
Section: CR_SECTION			
UIBB: Change Request	FPM_TABBED_UIBB	USMD_CR_OVERVIEW	TABBED_WINDOW
Section: MAT_SECTION			
UIBB: Material Central Node	FPM_FORM_UIBB_GL2	Z_MDG_BS_MAT_MATERIAL_FORM_04	FORM_WINDOW
UIBB: Warehouse &LGNUM&: General...	FPM_FORM_UIBB_GL2	Z_MDG_BS_MAT_MLGNSTOR_FORM_05	FORM_WINDOW
UIBB: Basic Data	FPM_FORM_UIBB_GL2	Z_MDG_BS_MAT_MAT_FORM_06	FORM_WINDOW
UIBB: Descriptions	FPM_LIST_UIBB_ATS	Z_MDG_BS_MAT_DESCR_LIST_05	LIST_WINDOW
UIBB: Dimensions	FPM_COMPOSITE_UIBB	Z_MDG_BS_MAT_UOM_COMP_06	COMPOSITE_WINDOW

Preview

A B C D E F G H I

1 General Data

2 Material:

3 Base Unit of Measure:

4 Material Type:

5 Industry Sector:

6 Material Group:

7 Old Material Number:

8 Authorization Group:

9 Cross-Plant Material Status:

10 Batch Management:

11 Serialization Level:

12 Approved Batch Record Required Indicator:

13 Division:

14 Oil & Gas MARA Fields

15 Material tax group:

16 Transfer sign:

Dimensions

Sales UIBB:

Navigation	Repositories						
New	UIBB Dimensions	FPM_COMPOSITE_UIBB	Z_MDG_BS_MAT_DOM_COMP_06	COMPPOSITE_WINDOW			
Up	UIBB GTIN/ean	FPM_LIST_UIBB_ATS	Z_MDG_BS_MAT_GTN_LIST_06	LIST_WINDOW			
Down	UIBB Classification	WDC_MDG_BS_CLF_GEN	W_ROOT				
	UIBB Purchasing	FPM_COMPOSITE_UIBB	Z_MDG_BS_MAT_MARA_PURCH_COMP_06	COMPOSITE_WINDOW			
	UIBB Sales	FPM_FORM_UIBB_GL2	Z_MDG_BS_MAT_MARA_SALES_06	FORM_WINDOW			
	UIBB Basic Text	FPM_COMPOSITE_UIBB	Z_MDG_BS_MAT_TEXT_COMP	COMPOSITE_WINDOW			
	UIBB Internal Comment	FPM_COMPOSITE_UIBB	Z_MDG_BS_MAT_INT_COMM_COMP	COMPOSITE_WINDOW			
	UIBB Quality Inspection Text	FPM_COMPOSITE_UIBB	Z_MDG_BS_MAT_QINS_TXT_COMPOSITE	COMPOSITE_WINDOW			

Component Configuration Z_MDG_BS_MAT_MARA_SALES_06

Save Cancel Edit Save Draft Load Draft Undo Redo Check Additional Functions

Layout Type: 16/2
No Automatic Event after F4 Help:
Background Style:
Personalization: Disabled

Accessibility Settings
ARIA Landmark: Form

Less ...

Preview

A B C D E F G H I

1 General Data

2 Cross-Distribution-Chain Material Status:

3 Competitor:

4 Qualifies for Discount in Kind:

5 Shipping

6 Transportation Group:

7 Oil & Gas Fields

8 Product compat.grp.:

Plant: General Data

The image shows two overlapping SAP application configuration screens.

Navigation Bar: Shows 'Main Page' set to 'BASIC_DATA' and 'Title' set to '&TITLE_MATNR_DESCR&'. Other options include 'PLANT_DETAILS_MRP', 'PLANT_ADD_POPUP', and 'PLANT_COPY_POPUP'.

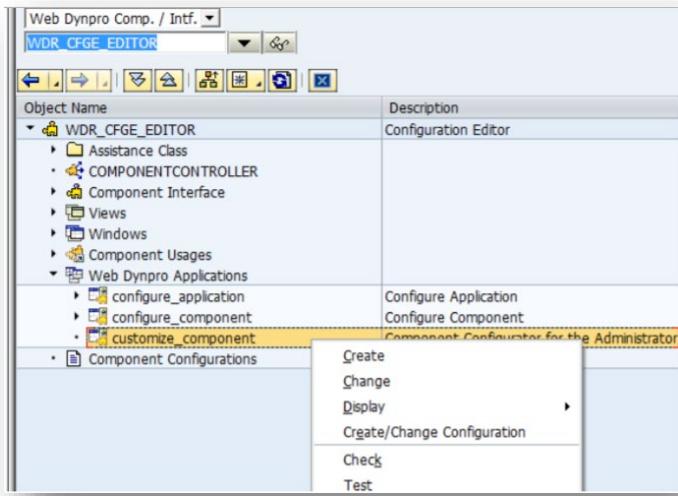
Component Configuration Z_MDG_BS_MAT_MARC_GENDATA_06:

- Toolbar:** Save, Cancel, Edit, Save Draft, Load Draft, Undo, Redo, Check, Additional Functions.
- Accessibility Settings:** ARIA Landmark: Form.
- Preview View:** Shows a grid with columns A through H. Rows 1-8 represent 'General Data' fields, and rows 9-13 represent 'Oil & Gas MARC Fields'.
- Fields:**
 - Row 1: General Data
 - Row 2: Logistics Handling Group: [input field]
 - Row 3: Plant-Specific Material Status: [input field]
 - Row 4: Profit Center: [input field]
 - Row 5: Serial Number Profile: [input field]
 - Row 6: Batch Management: [checkbox]
 - Row 7: Documentation Required: [checkbox]
 - Row 8: Negative Stocks in Plant Allowed: [checkbox]
 - Row 9: Oil & Gas MARC Fields
 - Row 10: UoM Group: [input field]
 - Row 11: Conversion Group: [input field]
 - Row 12: Oil content %: 0.00 [input field]
 - Row 13: Excise Duty Group: [input field]

4.4.2 Supplier/Customer

If you are only going to make small changes to the UI configuration (for example adding a field) you can follow the steps described below to extend the standard configuration. In case you need to make significant adjustments to the UI configuration it is recommended to modify a copy.

Using transaction code SE80, start the `customize_component` Web Dynpro Application of `WDR_CFG_E_EDITOR` Web Dynpro Component:

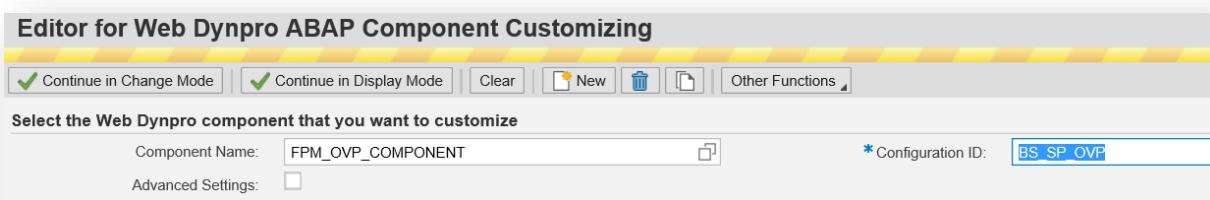


Supplier:

To customize the Supplier Web Dynpro component, complete the following entries and choose the *New* push button.

Component Name: FPM_OVP_COMPONENT

Configuration ID: BS_SP_OVP



To display additional fields on the user interface, you have to select the page 'ERP Vendor Purchasing Organization' and make the necessary adjustments (add new fields) on UIBB 'ERP Vendor Purchasing Organization: Conditions'.

The screenshot shows a SAP Web Dynpro component configuration interface. At the top, there's a toolbar with standard SAP icons for Save, Cancel, Edit, Save Draft, Load Draft, Undo, Redo, Check, and Additional Functions. Below the toolbar, there's a preview section with icons for Element, Group, Line, and Delete. The main area contains several sections and fields:

- Conditions** (Section 1):
 - Order Currency: [Input Field]
 - Minimum Order Value: [Input Field] (Value: 0,00)
 - Schema Group (Vendor): [Input Field]
 - LB Restriction Profile: [Input Field]
- IS-OIL Specific Fields (LFN1)** (Section 6):
 - Split invoice verif.: [Input Field]
 - Handling Type: [Input Field]
 - Vendor group (refinery/mill/other): [Input Field]
 - Invoice cycle: [Input Field] (Value: 0)

Customer:

To customize the Customer Web Dynpro component, complete the following entries in `customize_component` Web Dynpro Application and choose the *New* push button.

Component Name: FPM_OVP_COMPONENT

Configuration ID: BS_CU_OVP

The screenshot shows the "Editor for Web Dynpro ABAP Component Customizing" dialog box. The title bar says "Editor for Web Dynpro ABAP Component Customizing". The toolbar includes buttons for Continue in Change Mode (checked), Continue in Display Mode (checked), Clear, New (highlighted), Delete, Copy, Paste, and Other Functions. The main area has a header "Select the Web Dynpro component that you want to customize". It shows the Component Name: FPM_OVP_COMPONENT and Configuration ID: BS_CU_OVP. There are also buttons for Advanced Settings and Help.

To display additional fields on the user interface, you have to select the page 'ERP Customer' and make the necessary adjustments (add new fields) on UIBB 'ERP Customer: Control Data'.

The screenshot shows the SAP Fiori element editor interface. At the top, there is a toolbar with various icons for Save, Cancel, Edit, Save Draft, Load Draft, Undo, Redo, Check, and Add. Below the toolbar, a navigation bar includes 'Preview' and icons for Element, Group, Line, and Delete. The main area displays a table with 10 rows, each containing a number and a field label. Row 1 is bolded and labeled 'Multiple Assignment'. Row 2 has a dropdown menu under 'Reason:'. Row 3 has a checkbox under 'Standard:'. Row 4 is bolded and labeled 'Account Control'. Row 5 has a dropdown menu under 'Authorization Group:'. Row 6 has a dropdown menu under 'Group Key:'. Row 7 has a dropdown menu under 'Trading Partner:'. Row 8 is bolded and labeled 'IS-OIL Specific Data'. Row 9 has a dropdown menu under 'Differ.Refer.Code:'. Row 10 has a checkbox under 'Purchase order req:'. The right side of the screen shows some blurred UI elements.

	A	B	C	D	E	F	G	H	I
1	Multiple Assignment								Ad
2	Reason:								<input type="button" value="▼"/>
3	Standard:								<input type="checkbox"/>
4	Account Control								Ref
5	Authorization Group:								<input type="button" value="▼"/>
6	Group Key:								<input type="button" value="▼"/>
7	Trading Partner:								<input type="button" value="▼"/> <input type="checkbox"/>
8	IS-OIL Specific Data								
9	Differ.Refer.Code:								<input type="button" value="▼"/>
10	Purchase order req:								<input type="checkbox"/>

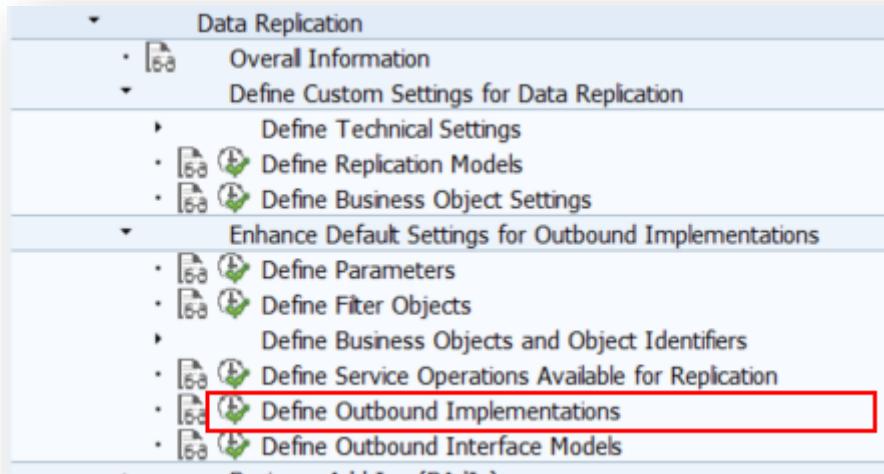
4.5 MDG Replication

4.5.1 Material

IDoc Type: OILMAT

Message Type: OILMAS05

Create override exit for DRF class used in MDG for method SEND_MATMAS_IDOC to replace MATMAS IDoc Type with OILMAT IDoc Type:



Change View "Define Outbound Implementation": Overview				
Dialog Structure				
Define Outbound Implementation <ul style="list-style-type: none"> Assign Segment Filter Object Assign Outbound Parameter <ul style="list-style-type: none"> Define Values of Outbound Assign Entity Type and SMT 				
Define Outbound Implementation	OutImpl.	Service Operation	Outbound Implementation Class	FilterTime
	1151		CL_USMD_TRANSF_DT	<input type="checkbox"/>
	1160	1017	CL_USMD_RQ_FCE_OUT	<input type="checkbox"/>
	1161		CL_USMD_TRANSF_DT	<input type="checkbox"/>
	1170	1014	CL_USMD_RQ_FCS_OUT	<input type="checkbox"/>
	1171		CL_USMD_CONSGRPH_OUT	<input type="checkbox"/>
	1180	1018	CL_USMD_RQ_CE_OUT	<input type="checkbox"/>
	1181		CL_USMD_TRANSF_DT	<input type="checkbox"/>
	1182		CL_USMD_RQ_CE_OUT_IDOC	<input type="checkbox"/>
	1190	1019	CL_USMD_RQ_CEGH_OUT	<input type="checkbox"/>
	1191		CL_USMD_TRANSF_DT	<input type="checkbox"/>
	1192		CL_USMD_RQ_CEGH_OUT_IDOC	<input type="checkbox"/>
	183_1		CL_MES_DRF_EQU	<input type="checkbox"/>
	194_1		CL_MDG_MAT_IDOC_DRF	<input type="checkbox"/>
	223_1		CL_MES_DRF_ROUTER	<input type="checkbox"/>
	467_1		CL_MES_DRF_GOODSMOV	<input type="checkbox"/>
	468_1		CL_MES_DRF_PM_ORD	<input type="checkbox"/>
	493_1		CL_MES_DRF_WORKCENTER	<input type="checkbox"/>
	92_1		CL_MES_DRF_PLAF	<input type="checkbox"/>
	97_1		CL_MES_DRF_PROD	<input type="checkbox"/>
	986_1		CL_MDG_BS_BP_REL_IDOC_DRF	<input type="checkbox"/>
	986_3	986	CL_MDG_BS_BP_REL_SERVICE_DRF	<input type="checkbox"/>
	986_4		CL_MDG_BS_VEND_ALE_DRF	<input type="checkbox"/>
	986_5		CL_MDG_BS_CUST_ALE_DRF	<input type="checkbox"/>
I_AHY			CL_DMF_MATGRE_OUT	<input type="checkbox"/>
I_ART			CL_DMF_PRODUCT_OUT	<input type="checkbox"/>
I_ASI			CL_DMF_LOCPROD_OUT	<input type="checkbox"/>
I_CON			CL_DMF_CONSUMPTION_OUT	<input type="checkbox"/>
I_INV			CL_DMF_INVENTORY_OUT	<input type="checkbox"/>
I_MAP			CL_DMF_MAV_OUT	<input type="checkbox"/>
I_MAT			CL_MDG_MAT_IDOC_DRF	<input type="checkbox"/>
I_MCH			CL_DMF_MCH_OUT	<input type="checkbox"/>
I_PRM			CL_DMF_OUT_RETAIL_EVENT	<input type="checkbox"/>
I_SUY			CL_DMF_LCC_OUT	<input type="checkbox"/>

Enhancement include: ZMDG_MAT_IDODRF

Class Builder: Display Class CL_MDG_MAT_IDOC_DRF				
Local Definitions/Implementations Class documentation Text elements				
Class/Interface CL_MDG_MAT_IDOC_DRF Implemented / Active Properties Interfaces Friends Attributes Methods Events Types Aliases				
Method	Level	Visibility	M... Description	Overwrite-Ext
IF_DRF_OUTBOUND~INITIALIZE	Static Method	Public	Initialze method of the outbound implementation	
IF_DRF_OUTBOUND~ANALYZE_CHANGES_BY...	Instance Method	Public	Change Analysis by MDG Change Pointers	
IF_DRF_OUTBOUND~ANALYZE_CHANGES_BY...	Instance Method	Public	Change Analysis by Change Pointers	
IF_DRF_OUTBOUND~MAP_DATA2MESSAGE	Instance Method	Public	Map Internal Data to the Message	
IF_DRF_OUTBOUND~SEND_MESSAGE	Instance Method	Public	Sends Processed Message	
IF_DRF_OUTBOUND~ENRICH_FILTER_CRIT...	Instance Method	Public	Enrich Filter Criteria	
IF_DRF_OUTBOUND~ANALYZE_CHANGES_BY...	Instance Method	Public	Change Analysis by 'other' parameters than change pointers	
IF_DRF_OUTBOUND~BUILD_PARALLEL_PAC...	Instance Method	Public	Build Parallel Package for message processing	
IF_DRF_OUTBOUND~READ_COMPLETE_DATA	Instance Method	Public	Read Complete data	
IF_DRF_OUTBOUND~APPLY_NODE_INST_FI...	Instance Method	Public	Apply Node Instance Filter on Multiple Relevant Objects	
IF_DRF_OUTBOUND~APPLY_NODE_INST_FI...	Instance Method	Public	Apply Node Instance Filter on Single Relevant Object	
IF_DRF_OUTBOUND~FINALIZE	Instance Method	Public	Finalize method for outbound implementation	
READ_TEXT_KEYS	Instance Method	Private	Read Text Keys	
CHECK_ID_MAPPING	Instance Method	Private	Check ID Mapping	
UPDATE_REPLICATION_DATA	Instance Method	Private	Update Replication Data	
SEND_MATMAS_IDOC	Instance Method	Private	Method to send Material	
MAP_MAT_SEGMENT_DATA	Instance Method	Private	Buids the table	
SEND_CLFMAS_IDOC	Instance Method	Private	Method to classification data	
CHECK_AENNR	Instance Method	Private	checks aenrr and returns valid from date	
HANDLE_MAT_DATA	Instance Method	Private	Maintains Material data for processing	
MAT_ID_MAPPING_HANDLING	Instance Method	Private	Obsolete: Handles Id mapping for Material	
CALL_FILTER	Instance Method	Private		
READ_MAT_DATA_PACK	Instance Method	Private	Reads data of material in batches or package size	

4.5.2 Supplier

IDoc Type: OILCRE

Message Type: OILCRE03

Create override exit for DRF class CL_MDG_BS_VEND_ALE_DRF used in MDG for method SEND_CREMAS_IDOC, to replace DEBMAS IDoc Type with OILDEB IDoc type.

Define Outbound Implementation				
OutbImpl.	C. Channel	Service Oper...	Outbound Implementation Class	
986_3	Replication via Services	986	CL_MDG_BS_BP_REL_SERVICE_DR	
986_4	Replication via IDoc		CL_MDG_BS_VEND_ALE_DRF	
986_5	Replication via IDoc		CL_MDG_BS_CUST_ALE_DRF	
I_AHY	Replication via RFC		CL_DMF_MATGRP_OUT	
T_ARP	Replication via RFC		CL_DMF_PRODUCT_OUT	

Enhancement include: ZMDG_VND_IDODRF

Class/Interface		CL_MDG_BS_VEND_ALE_DRF		Implemented / Active	
Properties		Interfaces		Friends	
Attributes		Methods		Events	
Exceptions		Sourcecode		Filter	
Method		Level	Visibility	M...	Description
IF_DRF_OUTBOUND~ANALYZE_CHANGES_BY_	Instance Method Public				Change Analysis by 'other' parameters than change pointers
IF_DRF_OUTBOUND~BUILD_PARALLEL_PAC_	Instance Method Public				Build Parallel Package for message processing
IF_DRF_OUTBOUND~READ_COMPLETE_DATA	Instance Method Public				Read Complete data
IF_DRF_OUTBOUND~APPLY_NODE_INST_FI	Instance Method Public				Apply Node Instance Filter on Multiple Relevant Objects
IF_DRF_OUTBOUND~APPLY_NODE_INST_FI	Instance Method Public				Apply Node Instance Filter on Single Relevant Object
IF_DRF_OUTBOUND~FINALIZE	Instance Method Public				Finalize method for outbound implementation
ANALYZE_CHANGES_BY_CHG_PNTER	Instance Method Public				Change Analysis by Change Pointers
END	Instance Method Public				Finalize method for outbound implementation
CHECK_BP_SEND	Instance Method Protected				
CONSTRUCTOR	Instance Method Public				CONSTRUCTOR
GET_VEND_ID_AND_KTOKK_OF_CLNT	Instance Method Public				Get Client Vendor ID and Account Group from Customizing
GET_ASSIGN_FROM_BP_ID	Instance Method Private				Get Vendor Assignments from Business Partner ID
GET_BP_ID_FROM_VEND_ID	Instance Method Private				Get Hub Business Partner ID from Hub Vendor ID
GET_BURKS_FILTER	Instance Method Private				Get Company Code Segment Filter
GET_CLNT_ID_FROM_VEND_ID	Instance Method Private				get client VEND_ID from Hub Vendor ID
GET_CLNT_PARNR	Instance Method Private				Get client PARNR for vendor contact person
GET_CLNT_PARNR_FROM_NUMRANGE	Instance Method Private				Get client PARNR from number range for vendor contact person
GET_EKORG_FILTER	Instance Method Private				Get Purchasing Organization Segment Filter
GET_IDENT_FROM_BP_ID	Instance Method Private				Get Client Vendor IDs from Hub Business Partner ID
GET_LIFNR_RECEIVER_IDS	Instance Method Private				Obsolete: not used any more
GET_VEND_CONTACT_PERSONS	Instance Method Private				Get vendor contact persons with ID's and address numbers
GET_VEND_ID_FROM_BP_ID	Instance Method Private				Obsolete: Get Hub Vendor ID from Hub Business Partner ID
IS_CONTACT REP REQ	Instance Method Private				Check if contact partner can be replicated.
READ_KEY_MAPPING	Instance Method Private				Obsolete: not used any more
READ_KEY_MAPPING_4PARNR	Instance Method Private				Read key mapping for vendor contact person
SENDADRMAS_ADR3MAS_IDOC	Instance Method Private				Send address IDocs for vendor contact person
SENDADRMAS_IDOC	Instance Method Private				Send ADRMAS
SENDCREMAS_IDOC	Instance Method Private				Send CREMAS and update DRF replication status
SEND_IDOC_4ASSIGN	Instance Method Private				Send IDoc for Multiple Assignment
SEND_IDOC_4ASSIGNS	Instance Method Private				Send IDoc for Multiple Assignments
SEND_IDOC_4IDENT	Instance Method Private				Send IDoc for Client Vendor ID

4.5.3 Customer

IDoc Type: OILDEB

Message Type: OILDEB04

Create override exit for DRF class CL_MDG_BS_VEND_ALE_DRF used in MDG for method SEND_CREMAS_IDOC, to replace CREMAS IDoc Type with OILCRE IDoc type.

Change View "Define Outbound Implementation": Overview			
Define Outbound Implementation			
OutbImpl.	Service Oper...	Outbound Implementation Class	FilterTime
986_3	986	CL_MDG_BS_BP_REL_SERVICE_DRF	<input type="checkbox"/>
986_4		CL_MDG_BS_VEND_ALE_DRF	<input type="checkbox"/>
986_5		CL_MDG_BS_CUST_ALE_DRF	<input type="checkbox"/>
I_AHY		CL_DMF_MATGRP_OUT	<input type="checkbox"/>
I_ART		CL_DMF_PRODUCT_OUT	<input type="checkbox"/>

Enhancement Include: ZMDG_CUST_IDODRF

Class/Interface		CL_MDG_BS_CUST_ALE_DRF	Implemented / Active					
Properties		Interfaces	Friends	Attributes	Methods	Events	Types	Aliases
Method			Level	Visibility	M...	Description		Overwrite-Ext
IF_DRF_OUTBOUND-INITIALIZE			Static Method	Public		Initalize method of the outbound implementation		
IF_DRF_OUTBOUND~ANALYZE_CHANGES_BY			Instance Method	Public		Change Analysis by MDG Change Pointers		
IF_DRF_OUTBOUND~ANALYZE_CHANGES_BY			Instance Method	Public		Change Analysis by Change Pointers		
IF_DRF_OUTBOUND~MAP_DATA2MESSAGE			Instance Method	Public		Map Internal Data to the Message		
IF_DRF_OUTBOUND~SEND_MESSAGE			Instance Method	Public		Sends Processed Message		
IF_DRF_OUTBOUND~ENRICH_FILTER_CRIT			Instance Method	Public		Enrich Filter Criteria		
IF_DRF_OUTBOUND~ANALYZE_CHANGES_BY			Instance Method	Public		Change Analysis by 'other' parameters than change pointers		
IF_DRF_OUTBOUND~BUILD_PARALLEL_PAC			Instance Method	Public		Build Parallel Package for message processing		
IF_DRF_OUTBOUND~READ_COMPLETE_DATA			Instance Method	Public		Read Complete data		
IF_DRF_OUTBOUND~APPLY_NODE_INST_FI			Instance Method	Public		Apply Node Instance Filter on Multiple Relevant Objects		
IF_DRF_OUTBOUND~APPLY_NODE_INST_FI			Instance Method	Public		Apply Node Instance Filter on Single Relevant Object		
IF_DRF_OUTBOUND~FINALIZE			Instance Method	Public		Finalize method for outbound implementation		
ANALYZE_CHANGES_BY_CHG_PNTER			Instance Method	Public		Change Analysis by Change Pointers		
END			Instance Method	Public		Finalize method for outbound implementation		
CHECK_BP_SEND			Instance Method	Protected				
CONSTRUCTOR			Instance Method	Public		CONSTRUCTOR		
GET_CUST_CONTACT_PERSONS			Instance Method	Private		Get customer contact persons with ID's and address numbers		
GET_KUNNR_RECEIVER_IDS			Instance Method	Private		Obsolete: not used any more		
SENDADR2MASADR3MAS_IDOC			Instance Method	Private		Send ADRMAS		
SENDADRMAS_IDOC			Instance Method	Private		Send ADRMAS		
SENDDEBMAS_IDOC			Instance Method	Private		Send DEBMAS and update DRF replication status		
READ_KEY_MAPPING			Instance Method	Private		Obsolete: not used any more		
GET_CUST_ID_FROM_BP_ID			Instance Method	Private		Obsolete: Get Hub Customer ID from Hub Business Partner ID		

5 Additional Information

5.1 Further Reading

5.1.1 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](#)

5.1.2 SAP Roadmap Explorer

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

5.1.3 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](#)

5.2 SAP Notes

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

Note	Description
3511043	OIL:Empty MARC fields after ALE transfer of IS-OIL materials - SAP for Me
3493581	Long runtime when running MDG for an oil material
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
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