



Master Data Governance for Supplier

CUSTOMER
Document Version: 19.05.2014



Copyright

© Copyright 2013 SAP AG. All rights reserved.

SAP Library document classification: PUBLIC

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.






Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Please see <http://www.sap.com/corporate-en/legal/copyright/index.epx#trademark> for additional trademark information and notices.

Icons in Body Text

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see *Help on Help* → *General Information Classes and Information Classes for Business Information Warehouse* on the first page of any version of *SAP Library*.

Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Cross-references to other documentation.
Example text EXAMPLE TEXT	Emphasized words or phrases in body text, graphic titles, and table titles. Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example text	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.



Master Data Governance for Supplier

Master Data Governance for Supplier enables you to monitor and control the creation, editing, and deletion of supplier master data.

This documentation provides the information you require to set up *Master Data Governance for Supplier*. It supplements the information provided in Customizing as well as the information about activities that you need to execute in addition to configuring Customizing settings.



1 Configuring Master Data Governance for Supplier

SAP Master Data Governance for Supplier (MDG-S) enables you to govern supplier master data on a hub system and to replicate the supplier master data to a variety of different client systems.

To use SAP Master Data Governance for Supplier, you need to carry out the steps described below.

Prerequisites

Business Function

Before you activate the business functions, ensure that you have the administration authorization for MDG. The required authorization objects are delivered with the authorization role SAP_MDG_ADMIN. In transaction `PF03`, we recommend creating a copy of this role and assigning the relevant authorization values. For the authorization object USMD_DM Data Model you need to assign the values for the authorization field USMD_MODEL Data Model and the values for the authorization activity ACTVT Activity (for example 01: Create or generate, or 02: Change).

In the Customizing activity *Activate Business Functions* (transaction `SFW5`), you have activated the following business functions:

- [Master Data Governance, Generic Functions \(MDG_FOUNDATION\) \[External\]](#)
- [Master Data Governance, Generic Functions 2 \(MDG_FOUNDATION_2\) \[External\]](#)
- [Master Data Governance, Generic Functions 3 \(MDG_FOUNDATION_3\) \[External\]](#)
- [Master Data Governance, Generic Functions 7.0 \(MDG_FOUNDATION_4\) \[External\]](#)
- [Master Data Governance, Generic Functions 7.0 Feature Pack \(MDG_FOUNDATION_5\) \[External\]](#)



This business function is available with support package 02 and higher of MDG 7.0.

- [Master Data Governance for Supplier \(MDG_ERP_SUPPLIER\) \[External\]](#)

- [Master Data Governance for Supplier on Hub \(ERP\) \(MDG_ERP_SUPPLIER_2\) \[External\]](#)
- [Master Data Governance for Supplier 6.1 \(MDG_ERP_SUPPLIER_3\) \[External\]](#)
- [Master Data Governance for Supplier 7.0 \(MDG_ERP_SUPPLIER_4\) \[External\]](#)
- [Master Data Governance for Supplier 7.0 Feature Pack \(MDG_ERP_SUPPLIER_5\) \[External\]](#)



This business function is available with support package 02 and higher of MDG 7.0.



If you intend to distribute data using SOA services, you have to activate the following business functions:

- [Business Foundation: Services for Supplier \(CA_SUPPLIER_SOA\) \[External\]](#)
- [Business Foundation: Services for Business Partner \(CA_BP_SOA\) \[External\]](#)



If you want to use graphical elements in the MDG-S work center or the *Business Context Viewer* (BCV), we recommend to activate the following business functions:

- [FND, Business Context Viewer Main Application \(/BCV/MAIN\) \[External\]](#)
- [FND, Business Context Viewer Main Application 2 \(/BCV/MAIN_1\) \[External\]](#)

For information about the *Business Context Viewer*, see [Business Context Viewer \(BCV\) \[External\]](#).



If you want to use the ALE replication of supplier master records with bank accounts that were created with IBAN and without BIC, you have to activate the following business function on the MDG hub and on the MDG client system:

- [Materials Management: Procure to Pay \(LOG_MM_CI_2\) \[External\]](#)

Authorization Objects

You have assigned the relevant authorization objects and roles. For more information about authorization objects and roles, see [Supplier Master Data Governance \(CA-MDG-APP-SUP\) \[External\]](#).

Set Up Workflow

You have defined general settings for [SAP Business Workflow \[External\]](#) in Customizing for SAP NetWeaver under **Application Server > Business Management > SAP Business Workflow**.

Web Dynpro Applications

You have activated the services for Web Dynpro Applications. For a detailed list of the relevant services, see [Services to be Activated for Web Dynpro Applications \[External\]](#).

Constraints

- Master Data Governance for Supplier does not support time dependency for central data, addresses, and business partner relationships. Therefore it cannot run on clients using the SAP business partner with time dependency for central data; see table TB056. Time validity for bank details and roles is supported.
- An activation of Master Data Governance for Supplier on an SRM One Client system as a hub is not supported.



Make sure that under **System > Status > Component information** there is no SRM_SERVER entry.

- To distribute business partner data including purchasing organization data from an ERP system into an SRM client system as of SRM 7.01 and higher services are required. Communication via IDOCs is not possible.

Process

You run the settings for this process in Customizing under **Cross-Application Components > Processes and Tools for Enterprise Applications > Master Data Governance**.



You can access all MDG specific Customizing using transaction MDGIMG.

1. [Activation of the Business Partner \(BP\) Data Model \[Page 7\]](#)
2. [Activate Business Configuration Set \[Page 8\]](#)
3. [Create Number Range Interval for Cleansing Application \[Page 9\]](#)
4. [Define Number Ranges for Supplier Account Groups per Target Syst \[Page 9\]](#)
5. [Configure Change Request Settings \[Page 9\]](#)
6. [Specify Change Request Types to Enable Account Group Change \[Page 16\]](#)
7. [Set Up the Workflow \[Page 17\]](#)
8. [Set Up the Rule-Based Workflow \[Page 20\]](#)
9. [Show Master Data Governance for Supplier 6.1 Specific UIBBs \[Page 25\]](#)
10. [Set Up Business Partner \[Page 28\]](#)
11. [Set Up Vendor \[Page 28\]](#)
12. [Set Up Customer-Vendor Integration \[Page 29\]](#)
13. [Replicate Data \[Page 29\]](#)
14. [Define Value Mapping \[Page 29\]](#)

15. [Define Key Mapping \[Page 29\]](#)
16. [Search and Duplicate Check \[Page 30\]](#)
17. [Data Quality Services \[Page 30\]](#)
18. [Set Up Embedded Search \[Page 30\]](#)
19. [Configuring SAP HANA-Based Search for MDG \[Page 31\]](#)
20. [Choose UI Environment to Run SAP Master Data Governance \[Page 39\]](#)
21. [Data Transfer of Supplier Master Data \[Page 41\]](#)
22. [Event Control \[Page 44\]](#)
23. [Validations and Enrichments \[Page 45\]](#)

Result

The system is configured for Master Data Governance for Supplier.

More Information

[Master Data Governance Security Guide \[External\]](#)

For information about the data model of Master Data Governance for Supplier and options to extend the data model, see SAP Note [1973686](#).



1.1 Activation of the Business Partner (BP) Data Model



When you activate the MDG_ERP_SUPPLIER_4 business function the system activates the BP data model. Before continuing with system configuration, open transaction *SFW5* and check if the activation has been completed by choosing **► Goto ► Switch Framework Logs ►** and selecting the corresponding entry with a double click.

1. Check whether you can use the data model delivered by SAP for managing your supplier master data with MDG-S.

If you want to enhance the delivered data model, edit it in the Customizing for *Master Data Governance* under **► General Settings ► Data Modeling ► Edit Data Model ►** and activate it again.





You can select the governance scope at any point after you activate the BP data model. The governance scope determines which fields can be edited and which fields are read-only on the MDG-S UI. To define the governance scope run this Customizing activity: **► Master Data Governance ► General Settings ► Process Modeling ► Define Governance Scope ►**

To restore the BP data model to its state in enhancement package 6 for SAP ERP 6.0 run this Customizing activity: **► Master Data Governance ► Master**

Data Governance for Business Partner > *Activate BC Set to Reset Governance Scope* .

For further information, see [Defining a Governance Scope \[External\]](#).

2. Assign an internal key

To support internal key assignment, run the activity in Customizing for *Master Data Governance* under  *General Settings* > *Data Modeling* > *Define Prefixes for Internal Key Assignment* .

Example: If you create new entries with the following values, all temporary IDs are prefixed with \$ and an internal sequence number.

Data Model = BP, Entity Type = ADDRNO => Prefix \$ (where ADDRNO is the address number)



Data Model = BP, Entity Type = BP_HEADER => Prefix \$ (where BP_HEADER is the supplier number)



1.2 Activate Business Configuration Set





MDG-S offers two different groups of change request types that support either the supplier UI or the ERP vendor UI. Only one of these groups should be used. If you intend to use the ERP vendor UI as alternative to the supplier UI proceed as follows:

1. Run the corresponding activity in Customizing for *Master Data Governance* under  *Master Data Governance for Supplier* > *ERP Vendor UI (Alternative to the Supplier UI)* > *Import Predefined Change Request Types for ERP Vendor UI* .



To access the BC-Set open the assigned documentation and choose the link.

2. Proceed with the ERP vendor UI specific settings described in the corresponding note below.

If you intend to use the supplier UI run this activity in Customizing for *Master Data Governance* under  *Master Data Governance for Supplier* > *Import Predefined Change Request Types* .



To use the feature *Highlight Changes* from the business function [Master Data Governance, Generic Functions 7.0 Feature Pack \[External\]](#) you have to activate the corresponding BC set that is delivered with the business function [Master Data Governance for Supplier 7.0 Feature Pack \[External\]](#):

- *MDGS Change Request Types (Supplier) 7.0 FPCA-MDG-APP-SUP_VC_USMD110_C05* if you use the supplier UI.

- *MDGS: Change Request Types (Vendor-Like UI) 7.0 FP* CA-MDG-APP-VL_VC_USMD110_C04 if you use the ERP vendor UI.



To access the BC-Set open the assigned documentation and choose the link.



If you want to use the MDG-S work center or side panel or the *Business Context Viewer (BCV)*, you must activate the BC set MDGAF_BCV under ► *SAP Menu* ► *Tools* ► *Customizing* ► *Business Configuration Sets* ► *Activation of BC Sets* .



1.3 Create Number Range Interval for Cleansing Application

If you intend to use the business partner cleansing application carry out the following steps in your MDG hub system.

1. Run transaction COM_CLEAR_NUM, choose (*Display Intervals*) and make sure that the number range interval 01 is available.
2. If the number range interval 01 is not available, run transaction COM_CLEAR_NUM, choose (*Change Intervals*) and create interval 01. For example:

No	From No.	To No.
01	0000000001	1000000000

- 3.

4. For further information, see [Cleansing Cases \[External\]](#).

- 5.



1.4 Define Number Ranges for Supplier Account Groups per Target System

If you intend to override the standard settings, so that you can distribute supplier master data into the target systems, with the numbers of the suppliers in the target system being different from the corresponding numbers in the hub system, run this activity in Customizing for *Master Data Governance* under ► *Master Data Governance for Supplier* ► *Define Number Ranges for Supplier Account Groups per Target System* .



1.5 Configure Change Request Settings

Depending on your company's requirements, you might want to adjust and enhance the change request default values.

The following information describes the minimal settings required for a standard governance process. For more information about each Customizing activity, see the relevant documentation for that Customizing activity.

1. Review and/or define which statuses the change requests can have, and which processing options are enabled for those statuses. Optionally, you can add new statuses to be used in the change request types defined in the next step.

For more information, see Customizing for *Master Data Governance* under **General Settings** > *Process Modeling* > *Change Requests* > *Edit Statuses of Change Requests*.

The following statuses are required for the SAP standard process:

Status Value	Description	Permitted Processing
00	To Be Evaluated	Change of Object List
01	To Be Considered and Approved	Change of Object List
02	Changes to Be Executed	Execution of Changes
03	To Be Revised	Change of Object List
04	Final Check to Be Performed	No Processing
05	Final Check Approved	No Processing
06	Final Check Rejected	No Processing
07	Activation Failed	No Processing
08	Approved, to Be Replicated	No Processing
09	Dependent Data to Be Processed/Approved	Execution of Changes
10	To Revise: Perform Changes	Execution of Changes
11	Process Errors After Activation	Execution of Changes
12	Approved, Contact Person to be Processed	No Processing
99	No Status Set	No Processing

2. Check in the Customizing that the following business activities are in your system under **Master Data Governance** > *General Settings* > *Process Modeling* > *Business Activities* > *Create Business Activity* and make sure that they are assigned to the default data model *BP*.
 - o SUP1 (Create Supplier)
 - o SUP2 (Process Supplier)
 - o SUP3 (Display Supplier)
 - o SUP5 (Block/Unblock Supplier)
 - o SUP6 (Mark Supplier for Deletion)
 - o BPPC (Business Partner Data Cleansing)

- BPPH (Process Business Partner Hierarchies)
 - BPPL (Business Partner Initial Load)
 - BPPM (Business Partner Mass Maintenance)
3. Create new change request types for data model *BP*, or validate after import using business configuration set (BC Set).

For more information, see Customizing for *Master Data Governance* under **General Settings** > **Process Modeling** > **Change Requests** > **Create Change Request Type**.

- The following table shows the change request types for data model *BP* of the supplier UI. Only the relevant columns are included.

Change Request Type	Data Model	Description	Single Object	Main Entity Type	Workflow
SUPPL1P1	BP	Create Supplier	Yes	BP_HEADER	WS54300005
SUPPL2P1	BP	Process Supplier	Yes	BP_HEADER	WS54300007
SUPPL5P1	BP	Block/Unblock Supplier	Yes	BP_HEADER	WS60800059
SUPPL6P1	BP	Mark Supplier for Deletion	Yes	BP_HEADER	WS60800068
BPHP1	BP	Process Business Partner Hierarchies	No	BP_HEADER	WS60800095
BPLP1	BP	Business Partner Initial Load	No	BP_HEADER	WS72100006
BPMP1	BP	Business Partner Mass Maintenance	No	BP_HEADER	WS60800095
BPCC2	BP	Process Business Partner Cleansing Case	Yes	BP_HEADER	WS60800086

- The following settings should exist in the substructures of the change request types:
- Substructure of Change Request Types:

SUPPL1P1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
- Business Activity: SUP1

SUPPL2P1

- Entity types:
 - ADDRNO: Msg. Output = Standard

- BP_HEADER: Msg. Output = Standard
- BP_REL: Msg. Output = Standard
- Business Activity: SUP2

SUPPL5P1

- Entity type: BP_HEADER: Msg. Output = Standard
- Business Activity: SUP5

SUPPL6P1

- Entity type: BP_HEADER: Msg. Output = Standard
- Business Activity: SUP6

BPHP1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_HRCHY: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
 - BP_SUBHRY: Msg. Output = Standard
- Business Activity: BPPH

BPLP1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_HRCHY: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
 - BP_SUBHRY: Msg. Output = Standard
- Business Activity: BPPL

BPMP1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_HRCHY: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
 - BP_SUBHRY: Msg. Output = Standard
- Business Activity: BPPM

BPCC2

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
- Business Activity: BPPC



In an optional step you can specify *Service Level Agreement* for all the mentioned change request types.

*ERP Vendor UI Specific Settings*

- If you use the ERP vendor UI, check that the following business activities are in your system:
 - VLP1 (Create Supplier)
 - VLP2 (Process Supplier)
 - VLP3 (Display Supplier)
 - VLP5 (Block/Unblock Supplier)
 - VLP6 (Mark Supplier for Deletion)
 - BPPH (Process Business Partner Hierarchies)
 - BPPL (Business Partner Initial Load)
 - BPPM (Business Partner Mass Maintenance)
- The following table shows the change request types for data model *BP* of the ERP vendor UI. Only the relevant columns are included.

Change Request Type	Data Model	Description	Single Object	Main Entity Type	Workflow
VENDR01	BP	Create Supplier	Yes	BP_HEADER	WS54300005
VENDR02	BP	Process Supplier	Yes	BP_HEADER	WS54300007
VENDR05	BP	Block/Unblock Supplier	Yes	BP_HEADER	WS60800059
VENDR06	BP	Mark Supplier for Deletion	Yes	BP_HEADER	WS60800068
VENDL1	BP	Lean Vendor Creation	Yes	BP_HEADER	WS54300013
BPHP1	BP	Process Business	No	BP_HEADER	WS60800095

		Partner Hierarchies			
BPLP1	BP	Business Partner Initial Load	No	BP_HEADER	WS72100006
BPMP1	BP	Business Partner Mass Maintenance	No	BP_HEADER	WS60800095

- The following settings should exist in the substructures of the change request types:
- Substructure of Change Request Types:

VENDR01

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
- Business Activity: VLP1

VENDR02

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
- Business Activity: VLP2

VENDR05

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
- Business Activity: VLP5

VENDR06

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
- Business Activity: VLP6

VENDL1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
- Business Activity: VLP1



Quite often many users are supposed to request the creation of new supplier master data. As these users might not be familiar with MDG, they need a UI that is easy to use, even without training. To fulfill this requirement MDG-S provides the *lean request UI* as a model.

The *lean request UI* is based on the change request type VENDL1. It provides a basic subset of input fields and therefore offers a simplified way to create supplier master data. In a subsequent step, another user can change the data, can enter further data using the complete set of input fields and finally can approve the change request.

To use the *lean request UI* the menu role [SAP MDGS LVC MENU 03, Master Data Governance for Supplier: Lean Requester Menu \[External\]](#) is required.

BPHP1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_HRCHY: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
 - BP_SUBHRY: Msg. Output = Standard
- Business Activity: BPPH

BPLP1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_HRCHY: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
 - BP_SUBHRY: Msg. Output = Standard
- Business Activity: BPPL

BPMP1

- Entity types:
 - ADDRNO: Msg. Output = Standard
 - BP_HEADER: Msg. Output = Standard
 - BP_HRCHY: Msg. Output = Standard
 - BP_REL: Msg. Output = Standard
 - BP_SUBHRY: Msg. Output = Standard
- Business Activity: BPPM

For more information about the ERP Vendor UI, see Customizing for *Master Data Governance* under ► *Master Data Governance for Supplier* ► *ERP Vendor UI (Alternative to the Supplier UI)* ➤.

4. Import Predefined Field Modification Criteria for Transaction BP Using MDG-S

To Run this activity in Customizing for *Master Data Governance* under ► *Master Data Governance for Business Partner* ► *Import Predefined Field Modification Criteria for Transaction BP Using MDG-S* ➤.

5. Optionally, you can define priorities, reasons, or rejection reasons for change requests. You can enter codes and a short description to tag or classify your change requests. These codes can be used later for change request analytics (process quality analysis). They also can be used to influence the workflow-driven processes. For example, depending on the priority of a change request, you can mark it for special processing.

For more information, see Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Change Requests* ► *Define Priorities for Change Requests / Define Reasons for Change Requests / Define Rejection Reasons for Change Requests* ➤.



You can apply system settings that allow you to monitor in detail how effectively your organization processes change requests. For details, see [Enabling Detailed Analysis of Change Requests \[External\]](#).



1.6 Specify Change Request Types to Enable Account Group Change

You can specify change request types to enable the change of account groups. In the corresponding change requests the field *Account Group* will then be changeable instead of being a mere display field.

If you want to enable all users to change account groups, then specify your standard change request types.

If you want to enable only a restricted group of user we recommend to use a specific change request type for this task.



Changing the account group might result in different partner functions, different number assignment and different attributes for certain fields.

Preconditions

- You have created the corresponding change request types.
- You have assigned the change requests types to the Business Partner (BP) Data Model.

Activity

Run the Customizing activity *Specify Change Request Types to Enable Account Group Change* under ► *Master Data Governance* ► *Master Data Governance for Supplier* ↗.

More Information

For further information, see SAP Note [1952436](#).



1.7 Set Up the Workflow

This section describes how to make the Customizing settings required to run the workflow for the approval process in MDG-S.

You define the workflow settings in Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Workflow* ↗.

1. Activate type linkage

To activate the type linkage, run the following activity in Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Workflow* ► *Activate Type Linkage* ↗.

Ensure, that one object type BUS2250 has the following settings:

- Event: CREATED
- Receiver Type: (blank)
- Type linkage active: yes
- Enable event queue: deactivated

The type linkage indicator must not be active for all other receiver types of object type BUS2250 and event CREATED. This receiver type is defined via the receiver type function module USMD_WF_RECEIVER_TYPE. Make sure that receiver function module SWW_WI_CREATE_VIA_EVENT_IBF is entered.

To enter the receiver type function module or if you need to change the settings, mark the according line in the table and choose ► *Goto* ► *Details* ↗.

2. Configure workflow tasks.

To configure workflow tasks, run the following activity in Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Workflow* ► *Configure Workflow Tasks* ↗.

1. Go to application component *CA-MDG-AF* and choose *Assign Agents*.
2. All activities (denoted by *TS**) that are not set as *Background Task* need to be set to *General Task*. To do so, select the activity, choose *Attributes*, and change to *General Task*.
3. Repeat the procedure for all non-background activities within the *CA-MDG-APP-BP* and *CA-MDG-APP-SUP* application components.

3. Check number of workflow steps

0. To define the workflow steps for the workflows assigned to your change request types (which shall be assigned to a processor), run the following

activity in Customizing for *Master Data Governance* under ► *General Settings* ► *Process Modeling* ► *Workflow* ► *Other MDG Workflows* ► *Define Change Request Step Numbers* ⌵.

1. If you use the change request types delivered with MDG-S, the following workflow steps are delivered:

- WS54300005: Step 0, 1, 4, 5, 6, 7
- WS54300007: Step 0, 1, 4, 5
- WS60800059: Step 0, 1, 2, 3
- WS60800068: Step 0, 1, 2, 3
- WS60800095: Step 0, 1, 2, 3, 4, 5
- WS72100006: Step 0, 1, 2, 3, 4, 5

4. Create organizational unit or change staff assignments for organizational unit

Create an organizational unit with transaction *PPOCW* or change staff assignments for an organizational unit with transaction *PPOME*. Users who will process the workflow steps have to be assigned to this organizational unit.

5. Check or set up the business rule framework plus (BRFplus)

0. To check the business rule framework plus (BRFplus) run the following activity in Customizing for *Master Data Governance* ► *Master Data Governance for Supplier* ► *Workflow* ► *Assign Processor to Workflow Step Number in BRFplus for Supplier* ⌵.



If the system does not contain the Customizing application MDG_BS_ECC_SUPPLIER_WF_CUSTM export it from client 000 using transaction *SCC1*.



To copy the content of the decision table GET_AGENT, do the following:

Prerequisite: In transaction *BRF+* under *Personalize the User Mode Expert* is selected.

1. Run transaction *BRF+* in the source client and search for *Name* MDG_BS_ECC_SUPPLIER_WF_CUSTM.
2. In the search result list expand ► *MDG_BS_ECC_SUPPLIER_WF_CUSTM* ► *Expression* ► *Decision Table* ► *GET_AGENT* ⌵ and open GET_AGENT with a double click.
3. Choose ► *Additional Actions* ► *Export to Excel* ⌵ to download the data.
4. In your target client repeat the steps 1 and 2 to open the decision table GET_AGENT.

5. Choose ► *Additional Actions* ► *Import from Excel* to upload the data.

1. To assign processors to workflow step numbers run the following activity in Customizing for *Master Data Governance* ► *Master Data Governance for Supplier* ► *Workflow* ► *Assign Processor to Workflow Step Number in BRFplus for Supplier*

Assign processors, for example users or organizational units , for all change request types and their created workflow steps.

The following table shows an example of the change request types and their workflow steps.

Change Request Type	Workflow Step Number	Object Type	Object ID
SUPPL1P1	01 Approval	O	OrgUnit-ID
SUPPL1P1	04 Revision after Rejection	O	OrgUnit-ID
SUPPL1P1	05 Subworkflow: Data Maintenance	O	OrgUnit-ID
SUPPL1P1	06 Subworkflow: Approval	O	OrgUnit-ID
SUPPL1P1	07 Decision: Activation Despite Discrepancy	O	OrgUnit-ID
SUPPL2P1	01 Approval	O	OrgUnit-ID
SUPPL2P1	04 Decision: Activation Despite Discrepancy	O	OrgUnit-ID
SUPPL2P1	05 Revision after Rejection	O	OrgUnit-ID
SUPPL5P1	01 Approval	O	OrgUnit-ID
SUPPL5P1	02 Decision: Activation Despite Discrepancy	O	OrgUnit-ID
SUPPL5P1	03 Revision after Rejection	O	OrgUnit-ID
SUPPL6P1	01 Approval	O	OrgUnit-ID
SUPPL6P1	02 Decision: Activation Despite Discrepancy	O	OrgUnit-ID
SUPPL6P1	03 Revision after Rejection	O	OrgUnit-ID
BPLP1	01 Processing	O	OrgUnit-

			ID
BPLP1	02 Approval	O	OrgUnit-ID
BPLP1	03 Revision after Rejection	O	OrgUnit-ID
BPLP1	04 Revision after Rejection	O	OrgUnit-ID
BPLP1	05 Decision: Activation Despite Discrepancy	O	OrgUnit-ID
BPMP1	01 Processing	O	OrgUnit-ID
BPMP1	02 Approval	O	OrgUnit-ID
BPMP1	03 Revision after Rejection	O	OrgUnit-ID
BPMP1	04 Revision after Rejection	O	OrgUnit-ID
BPMP1	05 Decision: Activation Despite Discrepancy	O	OrgUnit-ID
BPHP1	01 Processing	O	OrgUnit-ID
BPHP1	02 Approval	O	OrgUnit-ID
BPHP1	03 Revision after Rejection	O	OrgUnit-ID
BPHP1	04 Revision after Rejection	O	OrgUnit-ID
BPHP1	05 Decision: Activation Despite Discrepancy	O	OrgUnit-ID



If you intend to use MDG-S and MDG-C in parallel and you already have assigned the processors to the change request types for MDG-C, then nevertheless the assignment of processors to the change request types BPLP1, BPMP1, and BPHP1 has to be done in the Customizing activity *Assign Processor to Workflow Step Number in BRFplus for Supplier* as described in this document.



1.8 Set Up the Rule-Based Workflow



This document describes an example for a preconfigured Rule-Based Workflow for the Process Business Partner Cleansing Case.

MDG-S uses advanced workflow capabilities by combining the SAP Business Workflow with the SAP Business Rule Framework plus (BRFplus) tool. This section describes how to activate and load the necessary settings for BRFplus.

To use the predefined change request type BPCC2 run the following Customizing activity **► Master Data Governance ► Master Data Governance for Supplier ► Import Predefined Change Request Types** and activate the BC set CA-MDG-APP-SUP_VC_USMD110_C04.

Check that the steps for Rule-Based Workflow are imported by the BC-Set by running the following activity in Customizing: **► General Settings ► Process Modeling ► Workflow ► Rule-based Workflow ► Define Change Request Steps for Rule-Based Workflow**.

The following are the default steps required for the predefined change request type BPCC2.

Type of Chg. Request	CR Step	Keys	Validation	Description
BPCC2	0			Processing
BPCC2	90		X	Final Check
BPCC2	91			Activation
BPCC2	92			Revision
BPCC2	95			Revision Processing
BPCC2	96			Processing After Activation Error
BPCC2	99			Complete

To check that the predefined change request type exists see the Customizing activity **► General Settings ► Process Modeling ► Change Requests ► Create Change Request Type**.

To check that the link between the predefined change request type and the generated BRF+ application ID exists, run transaction SE16, enter the table name USMD213C_SSW and look for the following entries:

USMD_CREQ_TYPE	USMD_BRFP_APP_ID
BPCC2	005056AC02D81ED2AC971CAB3C1DC848

Check that the BRF+ catalogs (inclusive application, functions, decision tables with content) for the predefined change request type are in the client.

Due to technical restrictions further settings currently cannot be included in the BC set processing therefore the following steps need to be executed manually:

1. Run transaction BRF+.
2. On the *Catalog* tab choose *Select Catalog*.
3. Enter the search criteria: Select the *Object Type* Catalog and as *Name* enter USMD_SSW_CATA_BPCC2.



If the catalog does not exist in your client, export the catalog from the client 000 using transaction SCC1.

The import will also include the values in the three pre-delivered decision tables. For testing the standard workflow configuration you have to start the workflow now.

Maintain your content in the decision tables, reflecting your governance process. You can use the pre-delivered SAP content as a starting point.

To maintain your content either run transaction USMD_SSW_RULE and select the corresponding change request type or run the Customizing activity **General Settings > Process Modeling > Workflow > Rule-Based Workflow > Configure Rule-Based Workflow**.



If you extend the BRFplus decision tables make sure that the status of the final step is set to *05 Final Check Approved* or *06 Final Check Rejected*.

The following are the minimal settings for the relevant change request types.

- DT_SINGLE_VAL_BPCC2 (Single value decision table)
- DT_NON_USER_AGT_GRP_BPCC2 (Non-user agent decision table)
- DT_USER_AGT_GRP_BPCC2 (User agent decision table)

DT_NON_USER_AGT_GRP_BPCC2 and DT_SINGLE_VAL_BPCC2 contain the automated steps and follow-up logic used by the BRFplus. The follow-up logic can either result in an automated step or in a user task that will be made visible as a workflow.

The users involved in the Master Data Governance process need to be included in table DT_USER_AGT_GRP_BPCC2 so that they can receive and execute the workflow tasks. Maintain agents (for example the users or organizations in the Portal Content and Portal Role Assignment sections of this document) for all change request types and their associated workflow steps. Each condition alias that appears in the DT_SINGLE_VAL_BPCC2 table needs at least one processor, either automatic or user (group). Therefore, for all non-automated steps at least one entry needs to exist in DT_USER_AGT_GRP_BPCC2.

For further details on the workflow concepts, see [Rule Based Workflow for Business Partner \[External\]](#). You can adopt the settings described in that document for BP1P1 to BPCC2.

The following step types are pre-delivered by SAP:

Step Type	Short Description	Actions
1	Check Change Request	01 Agree; 02 Disagree
2	Approve Change Request	03 Approve; 04 Reject
3	Process Change Request	05 Finalize Processing; 06 Send for Revision
4	Revise Change Request	07 Resubmit; 08 Withdraw
5	Activate Change Request	09 Activate; 10 Send for Revision
6	Approve Change Request (Without Rejection)	03 Approve; 06 Send for Revision

7	Revise Change Request (Without Rejection)	05 Finalize Processing
8	Activate Change Request	09 Activate; 04 Reject

The following agent types exist:

User Agent Type	Short Description
US	User
O	Organizational Unit
C	Job
S	Position
AG	Role
SU	Special User (Initiator/Last-Step User)

The following is the standard content pre-delivered by SAP:

DT_SINGLE_VAL_BPCC2

Previous Change Request Step PREVIOUS_STEP	Previous Action PREVIOUS_ACTION	Condition Alias COND_ALIAS	New Change Request Step NEW_STEP	New Change Request Status NEW_CR_STATUS
00 (Processing)	No value	1	90 (Final Check)	01 (To Be Considered and Approved)
90 (Final Check)	03 (Approve)	2	91 (Activation)	
90 (Final Check)	04 (Reject)	3	95 (Revision Processing)	10 (To Revise: Perform Changes)
91 (Activation)	31 (Activation Successful)	4	99 (Complete)	05 (Final Check Approved)
91 (Activation)	<>31 (Activation Successful)	5	96 (Processing After Activation Error)	11 (Process Errors After Activation)
92 (Revision)	No value	6	99 (Complete)	06 (Final Check Rejected)
95 (Revision Processing)	07 (Resubmit)	1	90 (Final Check)	01 (To Be Considered and Approved)
95 (Revision Processing)	08 (Withdraw)	8	92 (Revision)	

96 (Processing After Activation Error)	09 (Activate)	9	91 (Activation)	
96 (Processing After Activation Error)	10 (Send for Revision)	3	95 (Revision Processing)	10 (To Revise: Perform Changes)

DT_USER_AGT_GRP_BPCC2

Condition Alias	User Agt Grp No.	Step Type	User Agent Type	User Agent Value
COND_ALIAS	AGENT_GROUP	STEP_TYPE	USER_TYPE	USER_VALUE
1	001	2 (Approve Change Request)	SU (Special User (Initiator/Last-Step User))	INIT
3	001	4 (Revise Change Request)	SU (Special User (Initiator/Last-Step User))	INIT
5	001	5 (Activate Change Request)	SU (Special User (Initiator/Last-Step User))	INIT

DT_NON_USER_AGT_GRP_BPCC2

Condition Alias	Agent Group	Process Pattern
COND_ALIAS	AGENT_GROUP	PROCESS_PATTERN
2	001	05 (Activation (Do Not Bypass Snapshot))
4;6	001	99 (Complete (Sub-)Workflow)
8	001	08 (Roll back change request)
9	001	06 (Activation (Bypass Snapshot))

Notes

- It is necessary to activate your new entries for each of the three decision tables.
- In the preconfigured delivery for all step types the value for user agent type is SU (Special User) and the user agent value is INIT (Initiator). Therefore testing is immediately possible.
- The quickest way to allow additional users to participate for example in the approve step for testing purposes is to copy the default entry for step type 2 into the DT_USER_AGT_GRP_BPCC2 table and change the entries as follows:
 - User Type: AG (Role)
 - User Value: SAP_MDGS_MENU_04 (The MDG-S role of PFCG/SU01)
- If the system cannot find a processor for your change requests check the background steps of the change requests workflow log to see if a work item with the description *Set Status x for Change Request y* is in process or in error. If this is the case regenerate the authorization profile of SAP_ALL or include USMD* authorization objects into the authorization for the user WF-Batch.

- Choosing the process pattern *06 Activation (Bypass Snapshot)* means that the business partner will be activated, even if the business partner record was changed in the backend system since the change request was created. Any backend changes are lost upon activation. You can adjust this behavior with SAP Note [1797009](#). Implementing this note means that the system only overwrites changes to entities present in the change request rather than all entities.



1.9 Show Master Data Governance for Supplier 6.1 Specific UIBBs

By default the user interface building blocks (UIBB) for the entities delivered with the business function *Master Data Governance for Supplier 6.1* are *not* shown after activation of the business function.

To show these user interface building blocks proceed as follows:




Depending on whether you use the supplier UI or the ERP vendor UI carry out the corresponding procedure.

Prerequisites


- In transaction *SU01* on the *Parameters* tab the Set/Get parameter *FPM_CONFIG_EXPERT* is set to the value *A*.
- The authorization objects *S_DEVELOP* and *S_WDR_P13N* are assigned to your user.


Show specific UIBBs for the supplier UI

1. Run transaction *NWBC*, enter the role *SAP_MDGS_MENU_04* and choose *Start NetWeaver Business Client for HTML*.
2. Choose *Search Supplier*.
3. Choose  (*Customize Page*).



If an error message is displayed concerning missing object component Customizing proceed as follows:


1. Choose *New*.
2. In the *Create Customizing* dialog box enter a description and choose *OK*.
3. In the *Select Transport Request* dialog box choose *OK*.
4. Mark *Main Page BS_BP_OVP*.
5. On the *Overview Page Schema* tab, choose  (*Expand Node*) in front of *Section: BP_SECTION* to open the UIBB structure.

6. Mark *UIBB: Relationship* BS_BP_RELATIONS.
7. In the *Hidden Element* field in the *Attributes of UIBB* section select *Visible* and choose *Save*.
8. Repeat the procedure as of step 4 using the following values:
 - *Edit Page* BS_SP_GENERAL_DATA
 - *UIBB: ERP Vendor: Sub-Ranges* BS_SP_SUBRANGES
 - *Edit Page* BS_SP_COMPANY_CODE
 - *UIBB: ERP Vendor Company Code: Extended Withholding Tax Types* BS_SP_WITHHOLDING_TAXES
 - *UIBB: ERP Vendor Company Code: Dunning Areas* BS_SP_DUNNING_AREAS
 - *Edit Page* BS_SP_PURCH_ORG
 - *UIBB: ERP Vendor Purchasing Organization: Different Purchasing Data* BS_SP_PURCH2_ORGS
 - *UIBB: ERP Vendor Purchasing Organization: Partner Functions* BS_SP_FUNCTIONS
9. As a final step on the *Search Supplier* screen choose  (*Personalize*) and on the *Personalize* dialog box choose *Reset to Default*.



To show the corresponding UIBBs within *Block* and *Mark for Deletion* change requests, mark an existing supplier in the search result list, choose *Block* or *Mark for Deletion* and proceed as described above as of step number 3.



Show specific UIBBs for the ERP vendor UI

1. Run transaction *NWBC*, enter the role *SAP_MDGS_MENU_04* and choose *Start NetWeaver Business Client for HTML*.
2. Choose *Search Vendor*.
3. Choose  (*Customize Page*).



If an error message is displayed concerning missing object component Customizing proceed as follows:














1. Choose *New*.
 2. In the *Create Customizing* dialog box enter a description and choose *OK*.
 3. In the *Select Transport Request* dialog box choose *OK*.
4. Mark *Main Page* BS_BP_OVP.

5. On the *Overview Page Schema* tab, choose  (*Expand Node*) in front of *Section: BP_SECTION* to open the UIBB structure.
6. Mark *UIBB: ERP Vendor: Sub-Ranges BS_SP_SUBRANGES*.
7. In the *Hidden Element* field in the *Attributes of UIBB* section select *Visible* and choose *Save*.
8. Repeat the procedure as of step 4 using the following values:
 - *Edit Page BS_SP_COMPANY_CODE*
 - *UIBB: ERP Vendor Company Code: Withholding Tax BS_SP_COMPANY_CODE_WITHHOLDING*
 - *UIBB: ERP Vendor Company Code: Dunning Areas BS_SP_DUNNING_AREAS*
 - *Edit Page BS_SP_PURCH_ORG*
 - *UIBB: ERP Vendor Purchasing Organization: Different Purchasing Data BS_SP_PURCH2_ORGS*
 - *UIBB: ERP Vendor Purchasing Organization: Partner Functions BS_SP_FUNCTIONS*
9. As a final step on the *Search Vendor* screen choose  (*Personalize*) and on the *Personalize* dialog box choose *Reset to Default*.



To show the corresponding UIBBs within *Block* and *Mark for Deletion* change requests, mark an existing vendor in the search result list, choose *Block* or *Mark for Deletion* and proceed as described above as of step number 3.

Show specific UIBBs for the UI configuration BS_OVP_BP_ALL



1. Run transaction *SE80*, select the package *MDG_BS_BP_BOLUI*.
2. Depending on your SAP NetWeaver release choose:
 - SAP NetWeaver 7.31:  *Web Dynpro*  *Web Dynpro Applicat.*  *BS_OVP_BP*  *Applic. Configurations*  *BS_OVP_BP_ALL* 
 - SAP NetWeaver 7.40:  *Web Dynpro*  *FPM Applications.*  *BS_OVP_BP*  *FPM Application Configurations*  *BS_OVP_BP_ALL* 
3. Double-click *BS_OVP_BP_ALL* and choose *Test/Execute*.
4. On the *Search Business Partner* screen, choose  (*Customize Page*).



If an error message is displayed concerning missing object component Customizing proceed as follows:

1. Choose *New*.
2. In the *Create Customizing* dialog box enter a description and choose *OK*.



3. In the *Select Transport Request* dialog box choose *OK*.

5. Mark *Main Page* BS_BP_OVP.
6. On the *Overview Page Schema* tab, choose  (*Expand Node*) in front of *Section: BP_BP_OVP* to open the UIBB structure.
7. Mark *UIBB: Relationship* BS_BP_RELATIONS.
8. In the *Hidden Element* field in the *Attributes of UIBB* section select *Visible* and choose *Save*.
9. Repeat the procedure as of step 5 using the following values:
 - Edit Page BS_SP_MLT_ASSIGNMENT
 - UIBB: ERP Vendor: Sub-Ranges BS_SP_SUBRANGES
 - Edit Page BS_SP_COMPANY_CODE S
 - UIBB: ERP Vendor Company Code: Extended Withholding Tax Types BS_SP_WITHHOLDING_TAXE
 - UIBB: ERP Vendor Company Code: Dunning Areas BS_SP_DUNNING_AREAS
 - Edit Page BS_SP_PURCH_ORG
 - UIBB: ERP Vendor Purchasing Organization: Different Purchasing Data BS_SP_PURCH2_ORGS
 - UIBB: ERP Vendor Purchasing Organization: Partner Functions BS_SP_FUNCTIONS
10. As a final step on the *Search Business Partner* screen choose  (*Personalize*) and on the *Personalize* dialog box choose *Reset to Default*.



1.10 Set Up Business Partner

You set up the business partner Customizing and check number ranges and groupings that are mandatory for MDG-S.

In addition if you need to set up or define settings for SAP Business Partner, run the following activity in Customizing for *Master Data Governance* under  *Master Data Governance for Business Partner* > *Set up Business Partner* .



Make sure your Customizing for the object *Business Partner* is harmonized throughout your hub and your client systems.



1.11 Set Up Vendor

You set up or check the Customizing for the vendor master in the MDG hub system and for the relevant client systems.

If you need to set up the vendor master, perform the following activity in Customizing for *Master Data Governance* under ► *Master Data Governance for Supplier* ► *Integration with Vendor Master in ERP* ► *Set up Vendor Master for Master Data Governance for Supplier* ⌵.



Make sure your Customizing for the object *Vendor* is harmonized throughout your hub and your client systems.



1.12 Set Up Customer-Vendor Integration

You define the settings for customer-vendor integration in Customizing for *Master Data Governance* under ► *Master Data Governance for Supplier* ► *Integration with Vendor Master in ERP* ► *Set up Customer Vendor Integration for MDG for Supplier* ⌵.



1.13 Replicate Data

Replication of master data from the MDG hub to the connected systems and clients can be done using the following methods:

- [Data Replication Using Enterprise Service Oriented Architecture \[Page 57\]](#)
- [Data Replication of Supplier Master Data Using ALE \[Page 59\]](#)
- [Data Replication of Business Partner Master Data Using ALE \[Page 63\]](#)



For information on how to replicate data to an SRM system, see [Configuration for Data Replication to SRM Systems \[Page 67\]](#).



1.14 Define Value Mapping

If required, you can define [value mapping \[External\]](#) for elements such as, BP relationship role code and others in Customizing for *Master Data Governance* under ► *General Settings* ► *Value Mapping* ⌵.

The fields of the supplier record for which a value mapping can be defined, are stored in the table *MDGV_ELEMENT*.



1.15 Define Key Mapping

If you are working with multiple connected systems and did not consolidate the supplier keys during the initial load phase, [key mapping \[External\]](#) may be required. You can define the system-specific mappings for the key value of the supplier in Customizing for *Master Data Governance* under ► *General Settings* ► *Key Mapping* ⌵.



1.16 Search and Duplicate Check

To configure the search and the duplicate check run the Customizing-activities under ► *Master Data Governance* ► *General Settings* ► *Data Quality and Search* ► *Search and Duplicate Check* ⌵.



1.17 Data Quality Services

You have the option to integrate SAP Master Data Governance with data quality management solutions, such as SAP Analytics Data Quality Management, including address validation, duplicate check, and data enrichment.

While creating new master data records, for example business partners, you can use the Web Dynpro application MDG_ADDR_CHECK_TEST (application configuration MDG_ADDR_CHECK_TEST_AC) to check that the entered address is valid and complete. This function supports you in detecting inconsistencies. It also helps you to improve the quality and completeness of your master data records with standardized address information on country and region codes, postal codes, as well as street names and house numbers.

Alternatively, you can also integrate third-party solutions that offer, for example, updating of databases, change of address service, address enrichment, or data cleansing.

For more information, see [Validation and Enrichment \[External\]](#).

For more information about data quality, see SAP Help Portal at <http://help.sap.com> ► *Analytics* ► *All Products* ⌵.



1.18 Set Up Embedded Search

Prerequisites

- TREX is setup and configured for the Embedded Search in the system before enabling the master data object for Embedded Search.

For further information how to setup TREX, see [Creating a Connection Between Embedded Search and TREX/BWA \[External\]](#).

- You are authorized to access the *Connector Administration Cockpit* (Transaction ESH_COCKPIT).

Procedure

Once TREX is configured, follow the steps mentioned below to enable the master data object for Embedded Search:

1

The search object connector template for business partner/supplier MDG_BUSINESS_PARTNER contains information about entities and attributes and about the relationship among entities as defined in the data model.

Configure the search connector using transaction ESH_COCKPIT. For further information, see [Using the Connector Administration Cockpit \[External\]](#).

Create a search connector for the corresponding embedded search template MDG_BUSINESS_PARTNER.

- After creating the search connector, an initial extraction of data for the connector is possible, choosing ► *Actions* ► *Schedule Indexing* ⌵. This will select all data in database tables corresponding to a master data object.
- Due to data changes after the initial extraction the embedded search index needs to be updated. To set this option choose ► *Actions* ► *Schedule Indexing* ⌵ and select *Real-time Indexing*.



1.19 Configuring SAP HANA-Based Search for MDG

SAP HANA-based search for SAP Master Data Governance enables you to perform searches and duplicate checks on master data residing in the SAP HANA database. An SAP HANA search provider is delivered to enable these features.

The following data models are supported out-of-the-box for MDG on HANA:

- Flex data models
- The business partner reuse model (BP)
- The material reuse model (MM)

The access class implementation is not provided for other reuse models. You must implement the access class for SAP HANA search to use it with the other reuse models.

SAP HANA-based search for SAP Master Data Governance can be used for the following MDG applications:

- Master Data Governance for Custom Objects
- Master Data Governance for Financials
- Master Data Governance for Supplier
- Master Data Governance for Customer
- Master Data Governance for Material

Prerequisites

You have activated the business functions Master Data Governance, Generic Functions 7.0 (MDG_FOUNDATION_4) and Master Data Governance, Generic Functions 7.0 Feature Pack (MDG_FOUNDATION_5).

You have installed the SAP HANA database, support package 06. We recommend that you install the highest available version of the SAP HANA database.

Process

To configure *SAP HANA*-based search for MDG, carry out the steps described below.

1. Create Users for Schema

Using the administrator user *SYSTEM*, or any other user with sufficient privileges, create three different types of users in the *SAP HANA Studio* by executing SQL statements in the SQL editor as follows:

User: tableowner

This user owns the schema and the data content within the schema. This user has the privileges to create a schema in the *SAP HANA* database.

Description	SQL Statements
Privileges to create schema in <i>SAP HANA</i> that contain all the tables and objects of the search application	<pre>GRANT CREATE SCHEMA TO tableowner ; CREATE SCHEMA schema_name ;</pre>

User: viewowner

This user owns the search views (attribute and *SQL* views). The user can perform operations such as create and edit on the search views. This user has the privileges to create objects in the *SAP HANA* repository package, to activate search rule sets and attribute views, and to execute search rule sets.

Description	SQL Statements
Allow repository access from <i>SAP HANA</i> studio	<pre>GRANT EXECUTE ON _sys_repo.repository_rest TO viewowner ;</pre>
Read-access to packages and design-time objects (native and imported objects)	<pre>GRANT REPO.READ ON "package" TO viewowner ;</pre>
Inactive changes to design-time objects in native packages	<pre>GRANT REPO.EDIT_NATIVE_OBJECTS ON "package" TO viewowner ;</pre>
Activate or reactivate design-time objects in native packages	<pre>GRANT REPO.ACTIVATE_NATIVE_OBJECTS ON "package" TO viewowner ;</pre>

Create, update, or delete native packages, or create sub-packages of native packages	GRANT REPO.MAINTAIN_NATIVE_PACKAGES ON "package" TO viewowner;
Permission to grant and revoke privileges on activated content (for example, attribute views)	GRANT EXECUTE ON GRANT_PRIVILEGE_ON_ACTIVATED_CONTENT TO viewowner; GRANT EXECUTE ON REVOKE_PRIVILEGE_ON_ACTIVATED_CONTENT TO viewowner;
Analytical privilege to access activated attribute views	CALL _SYS_REPO.GRANT_ACTIVATED_ANALYTICAL_PRIVILEGE('_SYS_BI_CP_ALL' , 'VIEWOWNER');
Privileges needed to run the search rules	GRANT EXECUTE ON sys.execute_search_rule_set TO viewowner;
Additional Privileges for SAP HANA 1.0 SPS5 to run search rules	GRANT SELECT ON _sys_rt.search_rule_sets TO viewowner;
Privileges to run generate search views and run search	GRANT SELECT, EXECUTE, INSERT, UPDATE, DELETE ON SCHEMA schema_name TO viewowner; GRANT SELECT ON table/view TO viewowner; GRANT SELECT ON table/view TO _sys_repo WITH GRANT OPTION; GRANT SELECT ON schema_name TO _sys_repo WITH GRANT OPTION; GRANT SELECT ON SCHEMA schema_name TO viewowner; CALL GRANT_PRIVILEGE_ON_ACTIVATED_CONTENT('SELECT' , '"package::view"', 'VIEWOWNER'); GRANT SELECT ON schema_name TO viewowner;
Optional: Create full text indexes on specific text	CREATE FULLTEXT INDEX index_name ON table_name (column_name) FAST PREPROCESS OFF;

columns if you want search to be performed on these text columns.	
---	--

User: appowner

This user runs the search application. This user has the privileges to query attribute views and to execute search rule sets.

Description	SQL Statements
Privileges needed to run the search rules	<pre>GRANT EXECUTE ON sys.execute_search_rule_set TO appowner; CALL GRANT_PRIVILEGE_ON_ACTIVATED_CONTENT('SELECT', 'package::view"', 'APPOWNER');</pre>
Additional privileges for SAP HANA 1.0 SPS5 to run search rules	<pre>GRANT SELECT ON _sys_rt.search_rule_sets TO appowner;</pre>
Privileges to run search.	<pre>GRANT SELECT ON table/view TO appowner; GRANT SELECT ON SCHEMA schema_name TO appowner; CALL GRANT_PRIVILEGE_ON_ACTIVATED_CONTENT('SELECT', 'package::view"', 'APPOWNER');</pre> <pre>GRANT SELECT ON schema_name TO appowner;</pre>
Analytical privilege to access activated attribute views.	<pre>CALL _SYS_REPO.GRANT_ACTIVATED_ANALYTICAL_PRIVILEGE('_SYS_BI_CP_ALL', 'APPOWNER');</pre>

i

For SAP HANA 1.0 SPS7 or lower releases you must undertake an additional step to perform search with negative operators. Check if the parameter `collect_ne_nodes_limit = 0` is present in the *Search* node of the configuration `indexserver.ini`. If this parameter is not present then it must be added using the following commands using the `SYSTEM` user or any other user with sufficient privileges:

```
alter system alter configuration
('indexserver.ini', 'SYSTEM');

set('search', 'collect_ne_nodes_limit')='0' with
reconfigure;
```

For more information about setting up roles and privileges refer to the *SAP HANA* development guide found here: <http://help.sap.com/hana/>

2. Create Schema

In the *SAP HANA Studio* create a schema where the replicated table data, generated views, and search rule sets will reside. Log in as the table owner and create the schema by entering the following SQL statement: `CREATE SCHEMA schema_name ;`

3. Create Database Connection

Run transaction `DBC0` and create a database connection to the *SAP HANA* database.

Field	Value
Database Connection Name	Unique name for the <i>SAP HANA</i> database connection used for search and duplicate check
Database System	<i>SAP HANA</i> database
Permanent	Yes
User Name	Schema name created in step above
Connection Information	Server: instance number
Connection Limit	0
Optimum Number of Connections	0

4. Maintain the MDG SAP HANA Database Profile Settings

You must define the MDG landscape settings, such as the connection to the *SAP HANA* database that is used for the search and duplicate check processes. You can make these setting in Customizing under ► *Master Data Governance* ► *General Settings* ► *Technical Settings for Master Data* ► *Define MDG Landscape Profile* ⌵.

The use of an *SAP Landscape Transformation* (SLT) server is optional for MDG data replication. If you use *SLT* for replicating the MDG table data to the *SAP HANA* database system, then you must also define a connection to an *SLT* server as explained below.



Deployment Options for MDG 7.0

MDG 7.0 can be deployed on an *SAP HANA* database or on a traditional database. If you deploy MDG 7.0 on *SAP HANA*, then *SAP HANA* acts as the primary database and no replication is required. If you deploy MDG 7.0 on a traditional database, the MDG data must be replicated to *SAP HANA* search schema either by *SAP Landscape Transformation* (SLT) or by other means. To generate a search view in the target system where search is performed, the MDG table metadata and data must be replicated to the *SAP HANA* database. To enable this initial replication of the data you must carry out the steps described below.

1. Run transaction `MDGIMG`.
2. Navigate to ► *Master Data Governance* ► *General Settings* ► *Technical Settings for Master Data* ► *Define MDG Landscape Profile* ⌵.
3. Enter data in the following fields:

Field	Value
<i>Database Connection Name for MDG</i>	The SAP HANA database used for the search and duplicate check processes created in the previous step
<i>RFC Connecting MDG to SLT System</i>	Optional, only enter data if you use SLT for data replication
<i>SLT Configuration Name</i>	Optional, only enter data if you use SLT for data replication

4. In the SAP HANA system, where the search on MDG data is performed, you must generate the search view. If you deploy MDG on a traditional database, and use SLT for replication then, when generating the view, before it is created, the system replicates the required table metadata to the SAP HANA database using the SLT settings.
5. In the SLT system the SLT user requires the authorization object S_DMIS, with the following field values defined for their role:

Authorization Object	Value
<i>Activity (ACTVT)</i>	02 (Change)
<i>MBT PCL: Scenario (MBT_PR_ARE)</i>	SLOP (SAP Landscape Transformation)
<i>MBT PCL: Processing Role Level (MBT_PR_LEV)</i>	PACKAGE (Transfer package level)

6. For Material Search, in transaction SA38 execute the report MDG_HDB_MAT_MIGRATE_LONGTEXT as a background job. Select the *Overwrite target table records* checkbox, to perform the initial load of material long texts to the database table MDGHDB_LONGTEXT. This loads the following long text types: Basic Data Text, Sales Text, Purchase Order Text, Inspection Text, Internal Note, and Material Note MRP.

5. Define Authorization Relevance for Each Entity Type

The authorizations maintained in customizing are considered during search. You can maintain the authorization in Customizing under ► *Master Data Governance* ► *General Settings* ► *Data Modeling* ► *Define Authorization Relevance per Entity Type* ►.

6. Create Search View

Create a search view in the development system and transport it to the test and production systems. The search view must be generated or regenerated in the target (test and production) systems.

If you are using the business partner, customer, or supplier domains and have activated the business functions MDG_ERP_CUSTOMER_3, MDG_ERP_SUPPLIER_4, or MDG_BUPA_1, or if you are using material domain and have activated the business function MDG_MATERIAL_5, then you must assign the template views from these business functions to a customer package in the *Create Search View* configuration activity before you can generate and use them.

You must also have authorization to create a workbench request.

To create a search view, run transaction MDG_HDB_GEN_UI or navigate to ► *Master Data Governance* ► *General Settings* ► *Data Quality and Search* ► *Search and Duplicate Check* ► *Create Search View* ►.

The package where you generate the search view must be in the customer namespace. Enter the name of the package during search view creation.

When you create the search view and the system generates the *SAP HANA* view, the following search configuration data is automatically updated:

- ► *Master Data Governance* > *General Settings* > *Data Quality and Search* > *Search and Duplicate Check* > *Define Search Applications* > *Allocation of Search Help to Search Applications* ▾
- ► *Master Data Governance* > *General Settings* > *Data Quality and Search* > *Search and Duplicate Check* > *Define Search Applications* > *Allocation of Entities to Search Help* ▾

In *SAP HANA* attribute views are created on the active and inactive areas. After you create the search view it can be manually edited within *SAP HANA Studio* to update the search properties of an attribute. In this case, if the search view is regenerated, the new search view will overwrite the manually updated search view.

You can create a search rule set during the search view generation if you want the search to be performed based on search rule sets. If you choose the create ruleset option for a reuse model, a union SQL view is created on the attribute view in *SAP HANA*. This search rule set can also be manually updated according to the business requirements of the users after it is generated. If the search view is edited at a later date and is regenerated, the search rule set will not be regenerated/overwritten; it has to be manually adjusted.

You must manually check out the generated search rule set to the *Project Explorer* view of the *SAP HANA Studio Administration Console* before it can be edited to change any parameter, such as the fuzzy value or weight of an attribute, and activate it to enable search based on this modified search rule set.

You can also copy an existing search view and edit it before generating the search view.

If there is a mismatch between the generated search view and the underlying objects, the system recognizes this and updates the status of the generated search view to Outdated. You can edit this outdated search view and regenerate the view.

To delete a search view, you must first remove the customizing settings for the search view, and then delete the search view. The status of the view is then set to Marked for Deletion. In transaction `SE38` execute the report program `MDG_HDB_DELETE_SEARCH_VIEWS` to delete the specific view or all views that are marked for deletion, and drop the corresponding objects in *SAP HANA*.

You must set filters in the *SAP HANA* staging views to exclude records that have the obsolete indicator set. Identify all the *Obsolete Indicator* flags. The fields corresponding to the obsolete indicator flags in each table of a staging view have the technical naming convention `USMD*_OBS_*` or `USMD*_O_*`. Select the obsolete indicator in the *Details* section of the staging view, right click and select *Apply Filter*. In the *Operator* field select `Not Equal` and in the *Value* field enter `X`.

Field Name	Operator	Filter Value
<code>USMD*_OBS_*</code>	Not Equal	X
<code>USMD*_O_*</code>	Not Equal	X

For material search you must set filters in the *SAP HANA* views for the material-related long texts stored in the database table `MDGHDB_LONGTEXT`. This means that only the appropriate long texts are taken from `MDGHDB_LONGTEXT`. To do this, in the

SAP HANA studio, open the *Content* folder and navigate to the package where the search views are created. For reuse entity types, creating a search view generates two views in the SAP HANA system (one each for the active and staging areas), or three if you are using classification data. The views generated for the active area have names similar to `searchviewname_Reuse` and `searchviewname_RINOB`.

Open the reuse SAP HANA views below. Go to *Detail* window, and select the long text table with the alias you want to update and right-click on the attribute. From the menu choose *Apply Filter*. From the drop-down menu choose the operator *Equal* and maintain the values as specified in the tables below.

Basic Text

Field Name	Filter Value	Table Name (Alias)
BSCDATTXT_TDID	GRUN	BSCDATTXT_MDGHDB_LONGTEXT
BSCDATTXT_TDOBJECT	MATERIAL	BSCDATTXT_MDGHDB_LONGTEXT

Sales Text

Field Name	Filter Value	Table Name (Alias)
SALESTXT_TDID	0001	SALESTXT_MDGHDB_LONGTEXT
SALESTXT_TDOBJECT	MVKE	SALESTXT_MDGHDB_LONGTEXT

Quality Inspection Text

Field Name	Filter Value	Table Name (Alias)
QINSPTXT_TDID	PRUE	QINSPTXT_MDGHDB_LONGTEXT
QINSPTXT_TDOBJECT	MATERIAL	QINSPTXT_MDGHDB_LONGTEXT

Purchase Text

Field Name	Filter Value	Table Name (Alias)
PURCHTXT_TDID	BEST	PURCHTXT_MDGHDB_LONGTEXT
PURCHTXT_TDOBJECT	MATERIAL	PURCHTXT_MDGHDB_LONGTEXT

Plant Text

Field Name	Filter Value	Table Name (Alias)
MRPTXT_TDID	LTXT	MRPTXT_MDGHDB_LONGTEXT
MRPTXT_TDOBJECT	MDTXT	MRPTXT_MDGHDB_LONGTEXT

Internal Comment Text

Field Name	Filter Value	Table Name (Alias)
INTCMNT_TDID	IVER	INTCMNT_MDGHDB_LONGTEXT
INTCMNT_TDOBJECT	MATERIAL	INTCMNT_MDGHDB_LONGTEXT

7. Verify Customizing Settings for Search View

After you have created and saved the search view, you must verify that the customizing settings are automatically updated for the newly created search view. To do this, perform the following:

0. Run transaction MDGIMG.
1. Navigate to ► *Master Data Governance* ► *General Settings* ► *Data Quality and Search* ► *Search and Duplicate Check* ► *Define Search Applications* ▾.
2. Select the row with the *Search Mode* HA (HANA). Note that the *Fuzzy* checkbox has no impact on SAP HANA search; SAP HANA search is fuzzy by default and this cannot be changed here.
3. Double-click on *Allocation of Search Help to Search Applications*.
4. Verify that there is an entry for the newly created search view in the *Included Search Help* field with the technical name provided during search view creation.
5. Select the row of the newly created search view.
6. Double-click on *Allocation of Entities to Search Help* and verify that the main entity type that you selected during search view creation is updated.
8. *Create Match Profile for Duplicate Checks based on SAP HANA Search*

After you have created a search rule set in the Create Search View step, you can use it to configure the match profile for duplicate checks.

0. Run transaction MDGIMG.
1. Navigate to ► *Master Data Governance* ► *General Settings* ► *Data Quality and Search* ► *Search and Duplicate Check* ► *Define Search Applications* ▾.
2. Select the row with the *Search Mode* HA (HANA).
3. Double-click on *Match Profile*.
4. For the specific data model and the *Match Profile ID for Duplicate Check* enter the name of the search rule set that you generated in step 6 above.

When you enter the search rule set name, the information from the search rule set is used instead of the attribute view while performing search during duplicate checks.

Result

You have now configured your system to use *SAP HANA* for MDG search. For drill down search configuration, see [Configuring Drill-Down Search \(Optional\) \[External\]](#).



1.20 Choose UI Environment to Run SAP Master Data Governance

You can run SAP Master Data Governance in the environments of the SAP NetWeaver Business Client or in the environment of the SAP NetWeaver Portal.

SAP NetWeaver Business Client

If you are running SAP Master Data Governance on the SAP NetWeaver Business Client (and not on the SAP NetWeaver Portal), you need to configure the role for the Business Client in the SAP ERP system. To do so, perform the following steps in the SAP ERP system:

1. On the SAP Easy Access screen, choose ► *Tools* ► *Administration* ► *User Maintenance* ► *Role Administration* ► *Roles* and choose menu role *SAP_MDGS_MENU_04*. Alternatively, use transaction *PFCG* (Role Maintenance).

Assign the menu role *SAP_MDGS_MENU_04* to your users.

[SAP MDGS MENU_04, Master Data Governance for Supplier: Menu \[External\]](#)



If you use the ERP vendor UI assign the role [SAP MDGS VL MENU_04, Master Data Governance for Supplier \(ERP Vendor UI\): Menu \[External\]](#).

2. On the SAP Easy Access screen, choose ► *Tools* ► *Administration* ► *User Maintenance* ► *Users*. Alternatively use transaction *SU01* (User Maintenance) and assign the authorization role or the name of the copied role for the application to the master data governance user.

The following authorization roles are delivered:

- [SAP MDGS DISP_04, Master Data Governance for Supplier: Display \[External\]](#)
- [SAP MDGS REQ_04, Master Data Governance for Supplier: Requester \[External\]](#)
- [SAP MDGS SPEC_04, Master Data Governance for Supplier: Specialist \[External\]](#)
- [SAP MDGS STEW_04, Master Data Governance for Supplier: Data Steward \[External\]](#)

Run transaction *PFCG* to verify the setting of the authorization objects within the roles and adapt the authorizations to your organizational structures.

SAP NetWeaver Portal

The SAP NetWeaver Portal content for MDG-S is derived directly from the system *PFCG* roles. To create SAP NetWeaver Portal roles for your users, you must log on to your portal and upload the content information from your back-end system *PFCG* roles.

To upload your portal content to the portal, do the following:

1. Set up your SAP NetWeaver Portal for MDG.
2. In the *Content Administration* work center choose ► *Portal Content Management* ► *Portal Content* and select a portal content folder to upload the portal content.
3. Right-click on the folder and choose ► *New* ► *Role* ► *Role from Back End*.
4. Select the system and client (or the connected system alias) you want to upload the role information from. This should be your hub system.
5. From the list displayed select the *PFCG* role *SAP_MDGS_MENU_04* and begin the upload.

Once the MDG portal roles have been uploaded, you must assign them as follows:

1. Log on to the portal.

2. Choose *Delegated User Administration*.
3. Enter your User ID and choose *Go*.
4. Mark the line of your user and choose *Modify*.
5. Select the *Assigned Roles* tab.
6. Enter MDG as the search criteria.
7. Select the portal role you have uploaded before.
8. Choose *Add* and save.

After assigning the user role you need to log off and log on again to the portal. For more information on uploading role information see SAP Note [1685257](#).



To enable the navigation from FPM (Floorplan Manager) search results to the corresponding object maintenance, see SAP Note [1879171](#).



1.21 Data Transfer of Supplier Master Data

Data transfer allows you to move master data between systems. These systems can be client or your main Master Data Governance systems.

If MDG-S is used on a productive ERP system in the same client no further initial import is required.

If MDG-S is used on a standalone ERP system supplier data that is not available on the ERP hub needs to be imported from one of the following sources:

- Another ERP system
- An SRM system
- A CRM system
- A non-SAP system

Data Export from Source System

To be able to export supplier master data, you can use the [Export Master Data \[External\]](#) service (SAP ERP 6.0, EHP6) or the [File Export \[External\]](#) (EHP5) which will create XML files in the SOA format. For exporting supplier master data from systems with ERP releases lower than SAP Business Suite Enhancement Package 5, use the existing functions in that release. For more information, see [Extraction of Supplier and Customer Master Data \(Earlier ERP Releases\) \[External\]](#). In this case you need to configure the logical system for IDoc-XML. The steps are as follows:

1. Create an XML-file port

Use transaction *WE21* to create an XML-file port for IDoc processing. Ensure that you have network access from your local client to the directory configured in the XML-file port. Enter the port name, description, and the physical directory. Enter the function module `EDI_PATH_CREATE_CLIENT_DOCNUM`. On the *Outbound Trigger* tab enter the RFC destination `LOCAL_EXEC`.

2. Create Logical System

Open transaction *SALE* and then go to ► *Basic Settings* ► *Logical Systems* ► *Define Logical System* ⌵ to create a new logical system.

3. Maintain Distribution Model

Open transaction *SALE* and then go to ► *Modeling and Implementing Business Processes* ► *Maintain Distribution Model and Distribute Views* ⌵. You can also use transaction *BD64* for this.

1. Switch to change mode and choose *Create Model View* to create a new entry. Enter a short text and a technical identifier.
2. Choose *Add Message Type* for the newly created model. Enter a logical source system name and a destination system name and choose the message type *CREMDM*.

4. Create Partner Profile

Run transaction *SALE* and then go to ► *Modelling and Implementing Business Processes* ► *Partner Profiles* ► *Generate Partner Profiles* ⌵. Alternatively you can use transaction *BD82*.

1. Select the newly created model using the input help for the technical name and then select the logical destination system.
2. Enter the authorized user and the following values:
 - *Version*: 3
 - *Pack.Size*: 100
 - *Output Mode*: Immediate Transfer
 - *Inbound. Processing*: Immediately
3. Choose *Execute*. You can ignore the port error that appears.

5. Call transaction *WE20* and make the following settings:

1. Open the *Partner Type LS* folder and select the partner profile you created above.
2. Update the message type *CREMDM* in the *Outbound Parameters* section. The Receiver Port is the XML-file port from the first step above. In the *Basic Type* field enter *CREMDM04* for *CREMDM*.

6. Test creation of IDOC XML

1. Generate the IDoc-XML for supplier using transaction *BD14*.
2. Check the newly generated IDocs using transaction *WE02* or *BD87*. You can use the receiver port as the filter criteria in the *Partner Port* field.
3. Use transaction *AL11* to find the XML files on the directory of your XML-file port.
4. To download the file for analysis purposes to local directory use transaction *CG3Y*.

Data Cleansing in NetWeaver MDM

In an optional step data cleansing, that means matching, merging, validation, and enrichment of data can be done with SAP NetWeaver MDM. The files from the data extraction process have to be converted in a first step and then can be imported into SAP NetWeaver MDM.

After data cleansing steps the supplier data can be extracted again in order to import them into the MDG Hub. Additionally key and value mapping information might be created and uploaded with the supplier data.

To convert the data for consumption in NetWeaver MDM you can use the WebDynpro Application *MDG_TRANSFORMER_FPM_CMP* which can be called from the work center for MDG-S under **► Data Exchange ► Data Transfer ► Convert Master Data ►**

Use transaction *FILE* to create the logical directory *MDG_TRANS_SOURCE* to be able to use the *File Converter*.

Data Import into Target System (MDG Hub)



To perform an initial load of master data, we recommend to use the functions described in the following documents:

- [Importing Master Data \[External\]](#)
- [Data Transfer \[External\]](#)

If you want to use parallel processing for data import it is recommended that you register your queue name prefixes in the QIN Scheduler so that they are executed automatically and do not have to be manually activated each time. To register the queue name follow these instructions:

1. Run transaction *SMQ2*.
2. Choose *Execute*. This shows the list of current queues.
3. Choose **► Goto ► QIN Scheduler ►**.
4. Choose the *Registration*.
5. In the Queue Name field, enter a prefix for your queues. Add an asterisk after the name to allow you to add additional text to the prefix when scheduling the export or import. Enter additional details as required.
6. Press *OK*.

Your new queue has been registered and will execute automatically. You should inform those working with the Data Import service what the queue name is so they can use it.

The IDoc-XML files contain the following fields in the header section:

Field Name	Field Description	Value
SNDPRT	Partnertyp	LS
SNDPRN	Sender Partner Number	Defined in step 3 below.
SNDPOR	Sender Port	Defined in step 1 below.
RCVPRT	Partnertyp	LS

RCVPRN	Receiver Partner Number	Defined in step 3 below.
RCVPOR	Receiver Port	Defined in step 1 below.

To be able to import IDoc-XML files the following set up activities need to be carried out:

1. Use transaction *IDX1* to create two ports in the IDoc adapter, one for sending and the other for receiving. Enter the port, client, description, and RFC destination for each port. Both ports should have the RFC destination of the MDG hub. Check that the port names match the names in your IDoc-XML file for the *SNDPOR* and *RCVPOR*, see table above for details.
2. In transaction *WE21* enter the receiver XML port using the same name as in step 1 above. Enter the port name under the folder XML File, and enter a description and a physical directory. In the function module field enter `EDI_PATH_CREATE_CLIENT_DOCNUM`. On the *Outbound:Trigger* tab, in the RFC destination field, enter `LOCAL_EXEC`.
3. In transaction *BD54* enter the sender and receiver partner numbers as logical system names.
4. In transaction *FILE* create the logical file name. Enter a *Logical File* and a *Name*. In the Physical File field enter `<PARAM_1>`. In the data format field enter `BIN`. In the *Application Area* field enter `CA`. In the *Logical Path* field enter the logical file path
5. In transaction *AL11* make sure that the IDoc-XML files are stored under the logical path and that there are no other files stored in that directory. Double-click on the path to view the existing iDoc-XML file. You can use transaction *CG3Z* to copy a local IDoc-XML file to the path.
6. To test the data import, open **► Data Exchange ► Data Transfer ► Import Master Data ►** in the *SAP NetWeaver Portal* or in the *SAP NetWeaver Business Client*. For more information, see [Importing Master Data \[External\]](#).

You can use the [Monitor Data Transfer \[External\]](#) application to get an overview of your data transfer processes.



1.22 Event Control

Check the table `CRMC_BUT_CALL_FU` and make sure that for the following entries the *Call Function Module* indicator is not set:

- `COM_BUPA_MWX*`
- `BUPA_OUTBOUND_ALE_MAIN`
- `BUPA_OUTBOUND_MAIN`

Check the table `CRMC_BUT_CALL_FU` and make sure that for the following entries the *Call Function Module* indicator is set:

- `ABA_FSBP_INBOUND_MAIN`
- `ABA_FSBP_OUTBOUND_BPS_FILL`



1.23 Validations and Enrichments

For an example of how to derivate the value of a field if you enter a specific value into another field, see [Derivation of Fields in the Business Partner Data Model \[Page 49\]](#).



2 Supplier Workflows

You use this process to run workflows for approving the processing of single suppliers.



The following workflows are predelivered workflows, which serve as examples and which you can adapt to your needs.

The following assumptions for these predelivered workflows have been made:

- Suppliers will be created from a central area from an organization, whereas the purchasing organization data and the company code data for these suppliers will be created from a financial accounting area from an organization.
- For all areas a double verification principle will be used.
- Both processes, creating company code data and purchasing organization data, can also be performed for multiple company codes and multiple purchasing organization processed by multiple master data specialists for one supplier in one change request.

Prerequisites

You have set up the workflow MDG_BS_SUPPL_WF_AGENT_ERP or you have created and set up your own workflow.

For more information about setting up workflows, see [Configuring the Workflow \[External\]](#).

Process

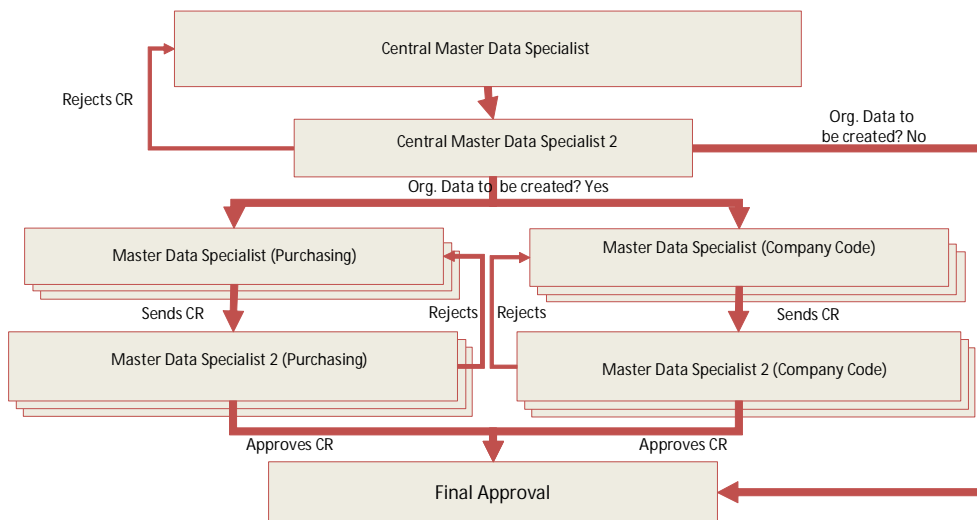
- *Workflow for Creating a Supplier*
 - Workflow for Creating a Supplier Without Company Code Data and Purchasing Organization Data

A central master data specialist creates a change request for entering organizational data and supplier general data of a new supplier. A second central master data specialist can approve the data of this change request. If the second central master data specialist rejects the change request, the change request is sent back to the central master data specialist, who created the change request. When the second central master data specialist approves the change request, the central master data specialist needs to decide, if he wants to process a contact person. After this step the change request has been activated and finally approved. The supplier master data and, potentially, the contact person data will be replicated to the client systems.

- Workflow for Creating a Supplier With Company Code Data and Purchasing Organization Data

A central master data specialist creates a change request for entering organizational data and supplier general data of a new supplier. The central master data specialist also decides, if a new supplier is assigned to one or multiple company codes or purchasing organizations. A second central master data specialist can approve the data of this change request. If the second central master data specialist rejects the change request, the change request is sent back to the central master data specialist, who created the change request. If the central master data specialist has assigned company codes or purchasing organizations to the new supplier, this change request will be sent to a master data specialist for company code data or purchasing organization data. The master data specialist for company code data or purchasing organization data enters the necessary company code data or purchasing organization data. This change request can be approved or rejected by a second master data specialist for company code data or purchasing organization data. If a second master data specialist for company code data or purchasing organization data rejects the change request, the change request is sent back to the master data specialist, who created the company code data or purchasing organization data. When all second master data specialists have approved all data of this change request, the central master data specialist needs to decide, if he wants to process a contact person. After this step the change request has been activated and finally approved. The supplier master data and, potentially, the contact person data will be replicated to the client systems.

Workflow: Creating a Supplier

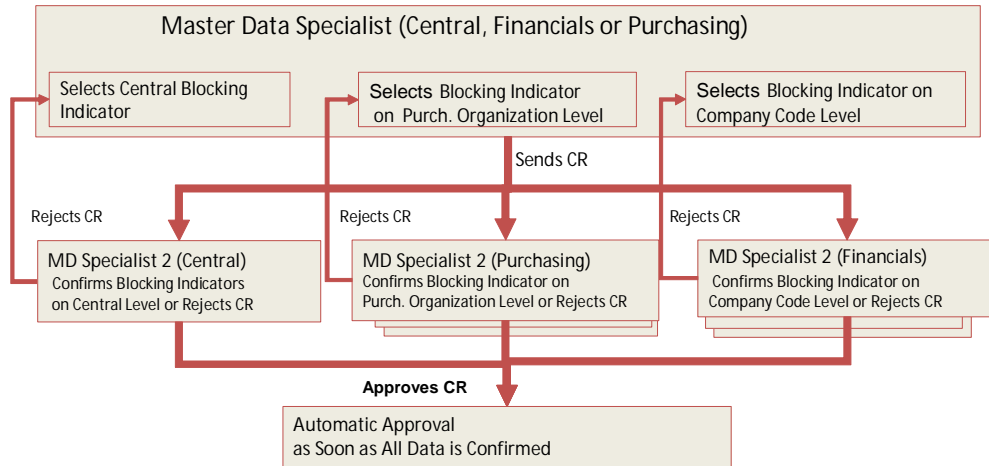


Workflow: Creating a Supplier

- For more information, see [Creating a Supplier \[External\]](#).
- *Workflow for Changing a Supplier*

A master data specialist creates a change request for changing organizational data, supplier general data, company code data or purchasing organization data of a

Workflow: Block/Unblock Supplier



Workflow: Blocking/Unblocking a Supplier

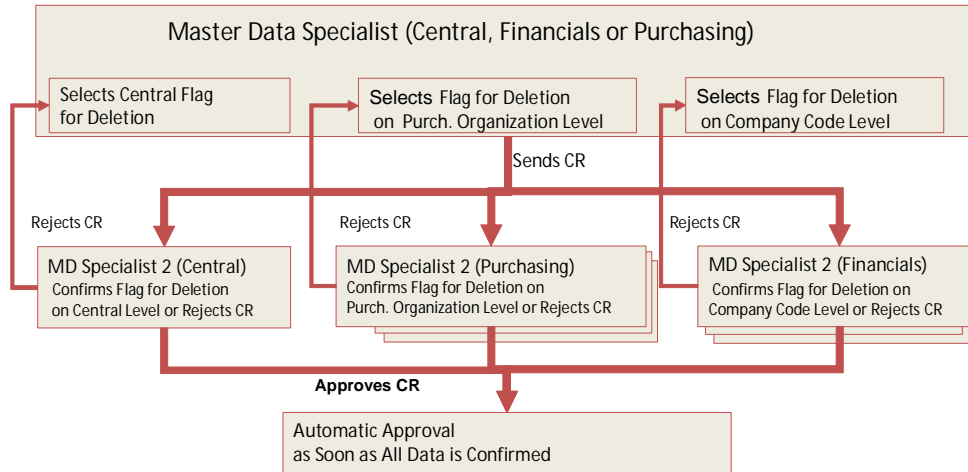
For more information, see [Blocking and Unblocking a Supplier \[External\]](#).

- *Workflow for Marking a Supplier for Deletion*

A central master data specialist can create a change request for marking a supplier for deletion centrally, for the supplier general data, per company code, or per purchasing organization.

A second master data specialist with the respective authorization can approve the data of this change request. If a second master data specialist rejects the change request, the change request is sent back to the master data specialist, who created the change request.

Workflow: Mark Supplier for Deletion



Workflow: Marking a Supplier for Deletion

For more information, see [Marking a Supplier for Deletion \[External\]](#).



3 Derivation of Fields in the Business Partner Data Model

This document describes an example of how to derivate the value of a field if you enter a specific value into another field: In the example entering the *company code* 1000 leads to the derivation of *reconciliation account* with the value 31000.

To access an entity type 4 that has a cardinality 1:1 (for example BP_CENTRL), you have to define the derivation DERIVE_BP_CENTRL to access elements such as *Search Term 1* (BU_SORT1).

To access an entity type 4 that has a cardinality 1:N (for example BP_COMPNY) you have to define the derivation DERIVE_BP_COMPNY to access elements such as *Reconciliation Account* (REF_BPCMP).



The values mentioned above refer to the supplier data model. For the corresponding values referring to the customer data model see the table below:

Supplier data model	Customer data model
BP_COMPNY	BP_CUS_CC
DERIVE_BP_COMPNY	DERIVE_BP_CUS_CC
REF_BPCMP	CUS_AKONT



For more information about derivation, see [Definition of Validations and Derivations \[External\]](#).

Activities

To access the entity BP_COMPNY you must define the DERIVE_BP_COMPNY function as described below.

1. In the Customizing for *Master Data Governance*, run the activity *Define Validation and Derivation Rules* under ► *Master Data Governance* > *General Settings* > *Data Quality and Search* > *Validations and Enrichments* > *Define Validation and Derivation Rules* .
2. Enter the *Data model* BP and choose *Continue*.
3. On the *Business Rule Framework plus* screen, select the *Catalog* tab, expand the *Trigger Function* node, and select *Derivation*. In the context menu choose ► *Create Object Node* > *Create Function* .
4. In the *Create Function* dialog box, enter the data shown below, choose *Create and Navigate to Object*, and confirm the dialog box:

- Name: DERIVE_BP_COMPNY



The naming convention for the function is DERIVE_<name of the entity>.

- Short Text: DERIVE_BP_COMPNY
 - Text: DERIVE_BP_COMPNY
 - Application: FMDM_MODEL_BP
5. On the *Signature* tab, choose *Add Existing Data Object*.
 6. In the *Object Query* dialog box, enter the search criteria shown below and choose *Search*.
 - Application: FMDM_MODEL_BP
 - Data Object Type: Any
 - Name: BP_COMPNY
 7. In the results list, mark BP_COMPNY and choose *OK*.
 8. On the *Assigned Rulesets* tab, choose *Create Ruleset*.
 9. In the *Create Ruleset* dialog box, enter the data shown below, choose *Create and Navigate to Object*, and confirm the dialog box:
 - Name: BP_COMPNY_RULESET

- Short Text: BP_COMPNY_RULESET
 - Text: BP_COMPNY_RULESET
 - Application: FMDM_MODEL_BP
10. In the *Rules* group box, choose **▶ Insert Rule > Create**.
 11. In the *Rule* dialog box, choose **▶ Assign Condition > Use Value Range From > Select Context Parameter**.
 12. In the *Context Query* dialog box, expand the BP_COMPNY node, mark CoCode, and choose *OK*.
 13. Select *is equal to* and enter 1000 using the input help.



Entering the value without the input help may cause inconsistencies due to the wrong data format.

14. Select **▶ Then > Add > Assign Value to Context > Context > More**.
15. In the *Context Query* dialog box, expand the BP_COMPNY node, mark Recon.acct, and choose *OK*.
16. In the *Rule:* dialog box, enter 31000 using the input help into the *Change value of BP_COMPNY to* field and choose *OK*.



Entering the value without the input help may cause inconsistencies due to the wrong data format.

17. Select *Save*, choose *Activate*, and on the *Confirm Activation* dialog box choose *Activate*.



4 Configuring the SOA Manager for Master Data Governance

This document describes the configuration steps that are required to enable the exchange of business partner data using point-to-point enterprise services communication without a process integration (PI) system.

Prerequisites

- *Authorizations*

The following authorizations are required in the MDG hub system and in the MDG client system:

- As administrative role for the SOA Manager
SAP_BC_WEBSERVICE_ADMIN_TEC is assigned.
- Authorizations are assigned for the transactions listed below:

- SU01
- SUIM
- PFCG
- *Service Users in ABAP Stack*

To create a service user in the MDG hub and the MDG client system carry out the steps described below in both systems.

1. Choose transaction SU01, choose *Create* and enter a user.
2. On the *Roles* tab assign the role SAP_BC_WEBSERVICE_ADMIN_TEC.

- *Business Functions*

The following business functions are active in the MDG hub system and in the MDG client system.



To activate the business function run the Customizing activity under ► *SAP Customizing Implementation Guide* ► *Activate Business Functions* ►

- [FND_SOA_REUSE_1: Improvements for SOA Reuse Functions \[External\]](#)



By activating the business function, you can use the following cross-application tool improvements that facilitate the use of services:

- SOA Mapping Tool
- Error Handling
- Point-to-Point Enablement for Asynchronous Enterprise Services

- [CA_SUPPLIER_SOA: Business Foundation for Services for Supplier \[External\]](#)
- [CA_BP_SOA: Business Foundation: Services for Business Partner \[External\]](#)

The following business function needs to be activated on ERP client systems that are configured for customer client maintenance:

- [MDG_CUST_ERPCLIENT_1: Master Data Governance for Customer on Client \(ERP\) \[External\]](#)

- *Support for Point-to-Point Communication*

To activate the support for the point-to-point communication run this activity in the MDG hub system and in the MDG client system in Customizing for ► *SAP Customizing Implementation Guide* ► *Cross-Application Components* ► *Processes and Tools for Enterprise Applications* ► *Enterprise Services* ► *Point-to-Point Enablement for Asynchronous Enterprise Services* ► *Activate Support for Point2Point Communication* ►.

- *Connection to System Landscape Directory*

Either the MDG hub system and the MDG client systems are connected to the *System Landscape Directory* (SLD) or the BAdI `MDG_IDM_GET_LCL_SYSTEM` is implemented to determine the local system ID. To verify the correctness of the SLD content run transaction `SLDCHECK` in the MDG hub and client systems. Ignore the browser dialog box. In the systems check that message reads: "Summary: Connection to SLD works correctly."

If you decide to implement the BAdI and not to use SLD, see the documentation of the IMG activity ► *Master Data Governance* ► *General Settings* ► *Data Replication* ► *Define Custom Settings for Data Replication* ► *Define Technical Settings* ► *BAdI: Determination of Local System Name* ►.

- *Configuration of the Web Service Runtime*

The technical configuration of the web service runtime is done according to SAP note [1043195](#).

- *Error and Conflict Handler*

SAP recommends to activate the error and conflict handler. To do so, run the following Customizing activity in the MDG hub system and in the MDG client system: ► *SAP Customizing Implementation Guide* ► *Cross-Application Components* ► *General Application Functions* ► *Error and Conflict Handler* ► *Activate Error and Conflict Handler* ►.

Procedure

The following steps are required to configure the SOA Manager for MDG (transaction `SOAMANAGER`) in the MDG hub and the MDG client system.

1. *Configure the system for point-to-point communication via enterprise services*

To create a new profile in the MDG hub and the MDG client system carry out the steps described below in both systems.

1. On the *Technical Administration* tab choose *Profiles*.
2. Choose *Create Profile*, enter `MDG` as name, enter a description, and choose *Next*.



The profile names should be identical in the SOA manager settings for both MDG hub and MDG client systems.

3. Mark *User ID/Password* and choose *Next*.
4. If necessary enter proxy settings and choose *Finish* to save the settings and activate the profile.

2. *Configure the client setting*

To configure the client setting in the MDG hub and the MDG client system carry out the steps described below in both systems.

1. On the *Technical Administration* tab, choose *SAP Client Settings* and then choose *Edit*.
2. Enter an *Organization Name*.

3. Choose *Get from SLD* to receive the *Business System* from the system landscape directory (SLD).
4. Enter the own *Business System ID*.



To retrieve the own *Business System ID* run transaction SLDCHECK and check the section *Calling function LCR_GET_OWN_BUSINESS_SYSTEM*.

5. Choose *Save* to receive the *Business Application ID*.
3. *Configure a provider system for the Business Scenario Configuration in MDG hub and MDG client systems*

To configure a provider system for the business scenario configuration in the MDG hub and the MDG client system carry out the steps described below in both systems.

1. On the *Technical Administration* tab, choose *Provider Systems*, and choose *Create*.
2. As *Name* enter the business system ID of the target system, select the *Profile Name* defined in step 1 using the input help and choose *Next*.
3. Enter the *SLD Identifier* in for following form:
 <client>.SystemName.<ABC>.SystemNumber.<Installation Number>.SystemHome.<Host>, for example
 416.SystemName.QV6.SystemNumber.0020270862.SystemHome.uxdbqv6



The SystemNumber can be found as described: ► *System* ► *Status* ► *SAP System Data* ► *Installation Number* ▾

Similarly, the SystemHome can be found under ► *System* ► *Status* ► *Database Data* ► *Host* ▾.



To identify the host name and port for access URL call transaction *SMICM* and choose ► *Goto* ► *Services* ▾. Use the HTTPS host name and port displayed in the list. We recommend to use the message server host.

4. Enter the *Access URL for WSIL* and Logon Information under *WSIL Services*.
5. Enter *User for WSDL* and a password for WSDL documents.
6. Enter the *Service User* that you have created in the backend system.
7. Maintain the Business Application ID.
 1. Choose *Create* to maintain a business application ID in MDG hub System
 2. Enter an application name and a description, for example:
sap.com/BusinessApplicationABAP

3. Enter the business application ID.



Note that the business application ID can be found in the counterpart system in the transaction SOAMANAGER under *Technical Administration* *SAP Client Settings* .

4. Press *Finish* to save and activate the system connection.

4. *Edit Logon Data for Business Scenario*

To create a user account in the MDG hub and the MDG client system carry out the steps described below in both systems.



The back end user has to exist in both systems.

1. On the *Service Administration* tab choose *Logon Data Management*.
2. On the *Maintenance* tab choose *Create*, enter your data and choose *Next*.
3. Select *User/Password* or *X.509* as *Authentication Method*.
4. Enter the user name that you created earlier in the backend system and choose *Finish*.

5. *Assign Logon Data to Business Application*

To assign logon data to the business application in the MDG hub and the MDG client system carry out the steps described below in both systems.

1. On the *Service Administration* tab choose *Logon Data Management*.
2. On the *Assignments* tab choose *Create*.
3. Use the input help to select a *Provider System/Business Application* and choose *Next*.
4. Select the user name you have entered in step 4 as *Logon Data* from the drop down list and choose *Finish*.

6. *Configure System for Point-to-Point Communication via Service Group*

To configure the system for point-to-point communication via service group in the MDG hub system carry out the steps described below.

Service definitions and service groups that need to be configured additionally to run MDG-C with client maintenance scenario are shown in brackets.

1. Create a business scenario in the MDG hub system.
 1. On the *Service Administration* tab choose *Business Scenario Configuration*.
 2. Choose *Create*, enter your data and choose *Next*.
2. Select service definitions and assign a profile.

1. Choose *Add* to search for Service Definition.
2. In the dialog box search for the *Service Definition* BUSINESSPARTNERRELATIONSHIPSUI, select it in the result list and choose *Add to Worklist*.
3. Similarly search for the following service definitions and add them to the worklist:
 - BUSINESSPARTNERSUITEBULKREPLI1
 - [BUSINESSPARTNERRELATIONSHIPSUI (BusinessPartnerRelationshipSUITEBulkReplicateRequest_In)]
 - [BUSINESSPARTNERSUITEBULKREPLIC (BusinessPartnerSUITEBulkReplicateRequest)]
3. Assign Profile to service definition.
 1. Select all services definitions from the list and choose *Assign Profile*.
 2. Select the profile MDG, choose *Assign Profile* and choose *Next*.
4. Select Service Groups and Assign Business Applications in the Provider System (i.e. MDG hub) Service Group:
 1. Choose *Add* to search for the Service Group, enter the service group MDG_BS_SUPPLIERREPLICATEREQ and choose *Go*.
 2. Repeat the procedure for the service group [MDG_BS_SUPPLIERREPLICATECONF].
 3. Select MDG_BS_SUPPLIERREPLICATEREQ and [MDG_BS_SUPPLIERREPLICATECONF] from the search result list and choose *Add to Work List*.
5. Assign Business Application.
 1. Select the service group from the list and assign it to the business application by choosing *Assign Business Application*.
 2. Select the provider system and the assigned business application name from the list and choose *Assign to Service Group*.
 3. Choose *Finish*.
6. Create a business scenario in the MDG client system.
 1. On the *Service Administration* tab choose *Business Scenario Configuration*.
 2. Choose *Create*, enter your data and choose *Next*.
7. Select service definitions and a assign profile.
 1. Choose *Add* to search for Service Definition
 2. In the dialog box search for the *Service Definition* BUSINESSPARTNERRELATIONSHIPSUI, select BusinessPartnerRelationshipSUITEBulkReplicateRequest_In in the result list and choose *Add to Worklist*.

3. Similarly search for the following service definitions and add them to the worklist:
 - BUSINESSPARTNERSUITEBULKREPLIC
 - [BUSINESSPARTNERRELATIONSHIPSU1]
 - [BUSINESSPARTNERSUITEBULKREPL1]
8. To assign a profile to the service definitions in the MDG client system carry out the steps described above in the corresponding chapter.
9. Select Service Groups and Assign Business Applications in the Provider System Service Group:
 1. Choose *Add* to search for the Service Group, enter the service group MDG_BS_SUPPLIERREPLICATECONF and choose *Go*.
 2. Repeat the procedure for the service group [MDG_BS_SUPPLIERREPLICATEREQ].
 3. Select MDG_BS_SUPPLIERREPLICATECONF and [MDG_BS_SUPPLIERREPLICATEREQ] from the search result list and choose *Add to Work List*.
10. To assign a business application in the MDG client system carry out the steps described above in the corresponding chapter.



To activate the business scenario and changes in the SOA manager business scenario configuration choose *Process List* in the *Pending Tasks* Page under *Service Administration*. Make sure, that all tasks are executed successfully.



5 Data Replication Using Enterprise Service Oriented Architecture (SOA)

The replication of master data from the MDG hub to the connected systems and clients can be done using Enterprise Service Oriented Architecture (SOA).

The service interfaces and service groups to be configured are found in the *SOAMANAGER* (SOA Manager) transaction.

For detailed information how to configure the *SOAMANAGER* for MDG, see [Configuring the SOA Manager for Master Data Governance \[Page 51\]](#) (NetWeaver 7.31) or [Configuring the SOA Manager for Master Data Governance \(NW 7.40\) \[External\]](#) (NetWeaver 7.40).

For information on the *SOAMANAGER* steps to be performed to configure WebService-based communication, see [Configuring a Consumer Proxy \[External\]](#).

The following services need to be configured:



Service definitions and service groups that need to be configured additionally to run MDG-C on a client system are shown in brackets.

- For the message inbound processing in the master data client systems, configure the following services:
 - BusinessPartnerSUITEBulkReplicateRequest_In
 - BusinessPartnerRelationshipSUITEBulkReplicateRequest_In
 - [BusinessPartnerSUITEBulkReplicateConfirmation_In]
 - [BusinessPartnerRelationshipSUITEBulkReplicateConfirmation_In]
- Configure the following service groups:
 - MDG_BS_SUPPLIERREPLICATECONF
 - [MDG_BS_SUPPLIERREPLICATEREQ]
- For the message inbound processing in the master data server system, configure the following services:
 - BusinessPartnerSUITEBulkReplicateConfirmation_In
 - BusinessPartnerRelationshipSUITEBulkReplicateConfirmation_In
 - [BusinessPartnerSUITEBulkReplicateRequest_In]
 - [BusinessPartnerRelationshipSUITEBulkReplicateRequest_In]
- Configure the following service groups:
 - MDG_BS_SUPPLIERREPLICATEREQ
 - [MDG_BS_SUPPLIERREPLICATECONF]

Replication eSOA Using the Data Replication Framework (DRF)

Prerequisite: Receiving systems/clients are defined in the SLD (system landscape directory). For more information, see [Customizing for Master Data Governance](#) under [General Settings](#) > [Data Replication](#) > [Overall Information](#).

1. Define technical settings for business system under [General Settings](#) > [Data Replication](#) > [Define Custom Settings for Data Replication](#) > [Define Technical Settings](#) > [Define Technical Settings for Business Systems](#)
 1. To define a new business system and to maintain the logical system for the receiving systems, choose *New Entries*.
 2. Enter a business system, for example ABC_123 and a logical system, for example ABCCLNT123.
2. Define replication model (replication of business partner) under [General Settings](#) > [Data Replication](#) > [Define Custom Settings for Data Replication](#) > [Define Replication Models](#)
 1. Using *New Entries*, define a new replication model and enter a description.
 2. Mark the line and choose *Assign Outbound Implementation*. Create a new entry and enter the following values using the input help:

- **Outbound Implementation:** 986_3 Outbound Impl. for BP/REL via Services
 - **Communication Channel:** Replication via Services
 - **Filter time:** Filter After Change Analysis
3. Mark the line and choose *Assign Target Systems for Repl. Model /Outb.Impl.* Create a new entry and enter the business system name for the receiving system created in the step before.
 4. Choose *Assign Outbound Parameter.* Create a new entry, enter the following values, and save.
 - **Outb. Parameter:** PACK_SIZE_BULK
 - **Outb. Parameter value:** 100 (example value)
 5. Return to the *Define Replication Model* view. Optionally, you can also add an expiration time for the log.
 6. Save your replication model.
 7. Mark the newly-created replication model, and choose *Activate.*

For more information, see *Master Data Governance* under **► General Settings ► Data Replication ► Define Custom Settings for Data Replication ► Define Replication Models** **►**.








6 Data Replication of Supplier Master Data Using ALE

Replication of master data from the MDG hub to the connected systems and clients can be done using Application Link Enabling (ALE).












1. Set up RFC connections (in both directions: hub to client and client to hub for ADRMAS and CREMAS)
 1. Set up the RFC connection: Run transaction *SM59* (configuration of RFC connections) and provide the required RFC destination details.
 2. To define a logical system in Customizing for *SAP Netweaver* run transaction *SALE* and then choose **► Basic Settings ► Logical Systems ► Define Logical System** **►**. Enter all target systems/clients as logical systems.
2. Create Global Company code for ALE

Run this activity in Customizing for *SAP Netweaver* under **► Application Server ► IDoc Interface / Application Link Enabling (ALE) ► Modelling and Implementing Business Processes ► Global Organization Units ► Cross-System Company Codes** **►**. Create cross system company codes and map all company codes in use to the global company code defined.
3. Maintain distribution model in SAP ERP (Outbound) for the distribution of Vendor Master using ADRMAS and CREMAS
 1. Run transaction *SALE* (Display ALE Customizing) and choose **► Modeling and Implementing Business Processes ► Maintain Distribution Model and**

Distribute Views . Alternatively, run transaction *BD64* (Display Distribution Model).

2. In change mode, create a new model. Choose *Create Model View*. Enter a short text and a technical name.
 3. Choose *Add Message Type* for the newly created model.
 4. Enter names for the logical source and destination systems and choose message type *CREMAS*.
 5. Choose *Add BAPI* for the newly created model.
 6. Enter the logical sender system and receiver system. In the *Obj.Name/Interface* field, enter *AddressOrg* and in the *Method* field, enter *SaveReplica*.
4. Create partner profile
1. Run transaction *SALE* and choose  *Modeling and Implementing Business Processes*  *Partner Profiles*  *Generate Partner Profiles* . Alternatively, run transaction *BD82* (Generate Partner Profile).
 2. Select the newly created model and in the *Partner System* field, enter the logical destination system.
 3. Enter the ALE-User and the following values in the corresponding fields, and execute.

Field	Value
Version	3
Pack Size	100
Output Mode	Transfer IDoc immediately
Inb. Parameters: Processing	Trigger immediately

4. To verify your settings, run transaction *WE20* and from the *Partner Profiles* menu, choose *Partner type LS*. Verify that *Partner type LS* is the logical destination system.
 5. In the detail screen, the chosen message types *ADRMAS* and *CREMAS* must appear as outbound parameters.
5. Distribute model view to receiving system.
1. Run transaction *SALE* and choose  *Modelling and Implementing Business Processes*  *Maintain Distribution Model and Distribute Views* . Alternatively, run transaction *BD64*.
 2. Select the new model and choose  *Edit*  *Model view*  *Distribute* .
 3. Verify that the correct receiving system is marked and choose *Enter*.
 4. Verify within the receiving system that the model view was created.
 1. Run transaction *SALE* and choose  *Modelling and Implementing Business Processes*  *Partner Profiles*  *Generate Partner Profiles* . Alternatively, run transaction *BD82*.
 2. Select the distributed model and the partner system.

3. Enter the ALE-User and the following values in the corresponding fields, and execute.

Field	Value
Version	3
Pack Size	100
Output Mode	Transfer IDoc immediately
Inb. Parameters: Processing	Trigger immediately

4. To verify your settings, run transaction *WE20* and from the partner profiles menu, choose partner type LS. Verify that partner type LS is the logical destination system.
 5. In the detail screen, the chosen message types *ADRMAS* and *CREMAS* must appear as inbound parameters.
6. Replication ALE Using the Data Replication Framework (DRF)

Prerequisite: Receiving systems/clients are defined in the SLD (system landscape directory). For more information, see Customizing for Master Data Governance under [► General Settings ► Data Replication ► Overall Information ►](#).


1. Define technical settings for business system under [► General Settings ► Data Replication ► Define Custom Settings for Data Replication ► Define Technical Settings ► Define Technical Settings for Business Systems ►](#)
 1. To define a new business system and to maintain the logical system for the receiving systems, choose *New Entries*.
 2. Enter a business system, for example *ABC_123* and a logical system, for example *ABCCLNT123*, select the *Define Bus. Systems, BOs* view, and enter the *BO Type 266* (Supplier).
 3. Make sure that under [► General Settings ► Data Replication ► Enhance Default Settings for Outbound Implementations ► Define Outbound Implementations ►](#) in the line *986_4* (MDG Vendor via ALE) the *Sup. Key H* (Support Key Harmonization) flag is set.
 4. Mark the *BO Type 266* (Supplier), select the *Define Bus. Systems, BOs, Communication Channel* view, enter the *C. Channel Replication via IDoc*, and select the value *Key Mapping* for the *Key Harm.* field.



If you select *Harmonized IDs* (no key mapping) for *Key Harm.* you have to use ALE inbound. It is not possible to import data using MDG DIF (Date Import Framework).

2. Define replication model (replication of vendor) under [► General Settings ► Data Replication ► Define Custom Settings for Data Replication ► Define Replication Models ►](#)
 1. Using *New Entries*, define a new replication model and enter a description.




2. Mark the line and choose *Assign Outbound Implementation*. Create a new entry and enter the following values using the input help:
 - Outbound Implementation: 986_4 MDG Vendor via ALE
 - Communication Channel: Replication via IDoc
 - Filter time: Filter After Change Analysis
3. Mark the line and choose *Assign Target Systems for Repl. Model/Outb. Impl.* Create a new entry and enter the business system name for the receiving system created in the step before.
4. Choose *Assign Outbound Parameter*. Create a new entry, enter the following values, and save.
 - Outb. Parameter: PACK_SIZE_BULK
 - Outb. Parameter value: 100 (example value)
5. Return to the *Define Replication Model* view. Optionally, you can also add an expiration time for the log.
6. Choose *Save* to save your entries.
7. Mark the newly-created replication model, and choose *Activate*.

For more information, see Customizing for *Master Data Governance* under [► General Settings > Data Replication > Define Custom Settings for Data Replication > Define Replication Models](#) .

7. Enable monitoring of IDOC posting (ALE Audit)

1. In the hub system: Run transaction *BD64* to maintain a distribution model and define the direction MDG client to MDG hub.

For more information about distribution models, see [Distribution Model \[External\]](#).

2. Open transaction *WE20* and navigate to the partner profile for the client system.
3. Enter the following inbound parameters without changing further data:
 - Message type: ALEAUD
 - Process code: AUD2
4. Replicate the distribution model to the target system using transaction *BD64*.
5. In the client system: To generate a partner profile open transaction *SALE* and choose [► System Monitoring > IDoc Confirmation in Receiving System \(ALE Audit\) > Distribution Model for ALE Audit](#) . Then select [► Environment > Generate Partner Profiles](#) .
6. Open transaction *WE20*, navigate to the partner profile and enter the outbound parameter *ALEAUD*.
7. To configure the replication of audit documents open transaction *SALE* and choose [► System Monitoring > IDoc Confirmation in Receiving System \(ALE Audit\) > Confirmation of Audit Data > Define Variant](#) .

You can schedule the report RBDSTATE as a background job to run on a regular base.



7 Data Replication of Business Partner Master Data Using ALE

Replication of business partner master data from the MDG hub to the connected systems and clients can be done using Application Link Enabling (ALE).

1. Set up RFC connections (in both directions: hub to client and client to hub)
 1. Set up the RFC connection: Run transaction *SM59* (configuration of RFC connections) and provide the required RFC destination details.
 2. To define a logical system in Customizing for *SAP Netweaver* run transaction *SALE* and then choose ► *Basic Settings* ► *Logical Systems* ► *Define Logical System* ⌵. Enter all target systems/clients as logical systems.
2. Maintain distribution model in SAP ERP (Outbound) for the distribution of Business Partner Master
 1. Run transaction *SALE* (Display ALE Customizing) and choose ► *Modeling and Implementing Business Processes* ► *Maintain Distribution Model and Distribute Views* ⌵. Alternatively, run transaction *BD64* (Display Distribution Model).
 2. In change mode, create a new model. Choose the *Create Model View*. Enter a short text and a technical name.
 3. Choose *Add Message Type* for the newly created model.
 4. Enter names for the logical source and destination systems and choose message type *BUPA_INBOUND_MAIN_SAVE_M* and *BUPA_INBOUND_REL_SAVE_M*.



For the maintenance of the distribution model in an SRM or a CRM system (Inbound), repeat steps 1 to 4 in the corresponding system.



To distribute business partner data and business partner relationship data, configure your target system as described:

5. Run transaction *SALE* and choose ► *Modelling and Implementing Business Processes* ► *Master Data Distribution* ► *Serialization for Sending and Receiving Data* ► *Serialization Using Message Types* ► *Define Serialization Groups* ⌵.
 1. Define a serialization group.
 2. Assign the message types listed below to the serialization group and enter the corresponding sequence numbers:

Message Type	Seq. number
BUPA_INBOUND_MAIN_SAVE_M	1
BUPA_INBOUND_REL_SAVE_M	2

6. Run transaction *SALE* and choose **► Modelling and Implementing Business Processes ► Master Data Distribution ► Serialization for Sending and Receiving Data ► Serialization Using Message Types ► Define Inbound Processing ►** and enter the following data:

Group	Message Type	Sending system	Obj/Proc
[Serialization group]	BUPA_INBOUND_MAIN_SAVE_M	[Sending system]	[value, e.g. 100]
[Serialization group]	BUPA_INBOUND_REL_SAVE_M	[Sending system]	[value, e.g. 100]

7. Make sure that incoming IDocs are not processed immediately. Run transaction *WE20* and choose **► Partner ► Partner Type LS ► [Sending system] ►**. For both inbound parameters proceed as described:

1. Select the inbound parameter.
2. Choose *DetailScreenInboundParameter*.
3. On the *Inbound options* tab, select *Trigger by background program*.

8. Run transaction *SE38* and create a variant for the Report *RBDSE04*. As *Serialization Group* enter the serialization group created above.

3. Create partner profile

1. Run transaction *SALE* and choose **► Modeling and Implementing Business Processes ► Partner Profiles ► Generate Partner Profiles ►**. Alternatively, run transaction *BD82* (Generate Partner Profile).
2. Select the newly created model and in the *Partner System* field, enter the logical destination system.
3. Enter the ALE-User and the following values in the corresponding fields, and execute.

Field	Value
Version	3
Pack Size	100
Output Mode	Transfer IDoc immediately
Inb. Parameters: Processing	Trigger immediately

4. To verify your settings, run transaction *WE20* and from the *Partner Profiles* menu, choose *Partner type LS*. Verify that *Partner type LS* is the logical destination system.

5. In the detail screen, the chosen message types
BUPA_INBOUND_MAIN_SAVE_M and BUPA_INBOUND_REL_SAVE_M must
appear as outbound parameters.
4. Distribute model view to receiving system.
 1. Run transaction *SALE* and choose ► *Modeling and Implementing Business Processes* ► *Maintain Distribution Model and Distribute Views* ►. Alternatively, run transaction *BD64*.
 2. Select the new model and choose ► *Edit* ► *Model view* ► *Distribute* ►.
 3. Verify that the correct receiving system is marked and choose *Enter*.
 4. Verify within the receiving system that the model view was created.
 1. Run transaction *SALE* and choose ► *Modelling and Implementing Business Processes* ► *Partner Profiles* ► *Generate Partner Profiles* ►. Alternatively, run transaction *BD82*.
 2. Select the distributed model and the partner system.
 3. Enter the ALE-User and the following values in the corresponding fields, and execute.

Field	Value
Version	3
Pack Size	100
Output Mode	Transfer IDoc immediately
Inb. Parameters: Processing	Trigger immediately

4. To verify your settings, run transaction *WE 20* and from the partner profiles menu, choose partner type LS. Verify that partner type LS is the logical destination system.
 5. In the detail screen, the chosen message types
BUPA_INBOUND_MAIN_SAVE_M and BUPA_INBOUND_REL_SAVE_M
must appear as inbound parameters.
5. Replication ALE Using the Data Replication Framework (DRF)

Prerequisite: Receiving systems/clients are defined in the SLD (system landscape directory). For more information, see Customizing for Master Data Governance under ► *General Settings* ► *Data Replication* ► *Overall Information* ►.

 1. Define technical settings for business system under ► *General Settings* ► *Data Replication* ► *Define Custom Settings for Data Replication* ► *Define Technical Settings* ► *Define Technical Settings for Business Systems* ►.
 1. To define a new business system and to maintain the logical system for the receiving systems, choose *New Entries*.
 2. Enter a business system, for example *ABC_123* and a logical system, for example *ABCCLNT123*, select the *Define Bus. Systems, BOs* view, and enter the *BO Type* 147 (Business Partner) and 1405 (Business Partner Relationship).

3. Make sure that under **General Settings > Data Replication > Enhance Default Settings for Outbound Implementations > Define Outbound Implementations** in the line 986_1 (Outbound Impl. for MDG BP via ALE) the *Sup. Key H* (Support Key Harmonization) flag is set.
4. Mark the *BO Type* 147 (Business Partner) and 1405 (Business Partner Relationship), select the *Define Bus. Systems, BOs, Communication Channel* view, enter the *C. Channel* Replication via IDoc, and select the value *Key Mapping* for the *Key Harm.* field.



If you select *Harmonized IDs* (no key mapping) for *Key Harm.* you have to use ALE inbound. It is not possible to import data using MDG DIF (Data Import Framework).

2. Define replication model (replication of business partners) under **General Settings > Data Replication > Define Custom Settings for Data Replication > Define Replication Models**
 1. Using *New Entries*, define a new replication model and enter a description.
 2. Mark the line and choose *Assign Outbound Implementation*. Create a new entry and enter the following values:
 - Outb. Impl.: 986_1 (Outbound Impl. for MDG BP via ALE)
 - Communication Channel: Replication via IDoc
 - Filter time: 2 (filter after change analysis)
 3. Mark the line and choose *Assign Target System for Repl. Model/Outb.Impl.* Create a new entry and enter the business system name for the receiving system created in the step before.
 4. Choose *Assign Outbound Parameter*. Create a new entry, enter the following values, and save.
 - Outb. Parameter: PACK_SIZE_BULK
 - Outb. Parameter value: 100 (example value)
 5. Return to the *Define Replication Model* view. Optionally, you can also add an expiration time for the log.
 6. Choose *Save* to save your entries.
 7. Mark the newly created replication model, and choose *Activate*.

For more information, see *Master Data Governance* under **General Settings > Data Replication > Define Custom Settings for Data Replication > Define Replication Models**.
 8. Define filter criteria.

In case different business partners are sent to receiver systems do the following:

1. Select your replication model and choose *Create*.
2. Enter filter values to determine which business partners shall be distributed, or which won't, for example, due to number range settings for business partner creation.

Run transaction *DRFF* or in SAP NetWeaver Portal or SAP NetWeaver Business Client, choose ► *Data Exchange* ► *Data Replication* ► *Define Filter Criteria* ⌵.

6. Enable monitoring of IDoc posting (ALE Audit)

1. In the hub system: Run transaction *BD64* to maintain a distribution model and define the direction MDG client to MDG hub.

For more information about distribution models, see [Distribution Model \[External\]](#).

2. Open transaction *WE20* and navigate to the partner profile for the client system.
3. Enter the following inbound parameters without changing further data:
 - Message type: *ALEAUD*
 - Process code: *AUD2*
4. Replicate the distribution model to the target system using transaction *BD64*.
5. In the client system: To generate a partner profile open transaction *SALE* and choose ► *System Monitoring* ► *IDoc Confirmation in Receiving System (ALE Audit)* ► *Distribution Model for ALE Audit* ⌵. Then select ► *Environment* ► *Generate Partner Profiles* ⌵.
6. Open transaction *WE20*, navigate to the partner profile and enter the outbound parameter *ALEAUD*.
7. To configure the replication of audit documents open the transaction *SALE* and choose ► *System Monitoring* ► *IDoc Confirmation in Receiving System (ALE Audit)* ► *Confirmation of Audit Data* ► *Define Variant* ⌵.

You can schedule the report *RBDSTATE* as a background job to run on a regular base.



8 Configuration for Data Replication to SRM Systems


As in the ERP hub system and in SRM client systems the business partner role and several attributes may be different or may be represented in different manners a mapping is required to enable the successful replication of data.

Settings in the hub system

Prerequisite

Technical settings for business systems are defined in the Customizing activity under ► *Master Data Governance* ► *General Settings* ► *Value Mapping* ► *Define Technical Settings for Business Systems* ⌵.

Procedure

- Maintain Value Mapping for Business Partner Roles
 1. Run the Customizing activity ► *Master Data Governance* ► *General Settings* ► *Value Mapping* ► *Maintain Value Mapping* ⌵.
 2. For MDG_FND_PARTY_ROLE_CODE choose  (*Display mapping relationships*).
 3. Under *Assign Code Lists* enter a *Mapping ID* (free text) and a *List Agency ID* (free text). Enter the *List ID* MDG_FND_PARTY_ROLE_CODE using the entry help.
 4. Under *Define Value Mapping* map the business partner role of the MDG hub system (*Internal Code Value*) with the business partner role of the SRM client system (*External Code Value*).
- Assign Code Lists to Elements and Systems
 1. Run the Customizing activity ► *Master Data Governance* ► *General Settings* ► *Value Mapping* ► *Assign Code Lists to Elements and Systems* ⌵.
 2. Select the *Type Data Element* and the *Global Data Type* MDG_FND_PARTY_ROLE_CODE and enter a *Business System*. Additionally enter a *List ID* and the *List Agency ID* you have entered in step 3 of paragraph *Maintain Value Mapping*.
- Create and Edit Key Mapping for Purchasing Organizations
 1. Run the *Supplier Governance Work Center* using the *NetWeaver Business Client* or the *SAP NetWeaver Portal*.
 2. Choose ► *Data Exchange* ► *Data Replication* ► *Create and Edit Key Mapping* ⌵.
 3. Under *Object Selection* enter the following:

Field	Entry
<i>Business Object Type</i>	Purchasing Functional Unit
<i>Business System</i>	<Business System ID> of the MDG hub system
<i>Object ID Type/Object ID</i>	ERP Purchasing Functional Unit (ERP)/<ID> of the purchasing organization in the MDG hub system

4. Choose *Add Row*.
5. In row 2 and subsequent enter the *BusinessSystem ID* of the SRM client system, select the *Business Object Type* *Organizational Center* and enter the corresponding *Object ID* of the organizational unit representing the purchasing organization in the SRM client system.

Settings in the SRM client system

Prerequisite

The vendor group organizational unit exists in the SRM system. To create it, run transaction PPOCV_BBP.

Procedure

- Maintain SLD Name of MDG Hub System in SRM Client System
 1. Run transaction SM30, enter the table name `BBP_BACKEND_DEST` and choose *Maintain*.
 2. Choose *New Entries* and enter the logical system of your MDG hub system, as *Sys. type* select `MDGS_HUB` and as *System Landscape Directory Name* enter your MDG hub system.
 3. Save your entries.
- Maintain Global Settings for the Vendor Synchronization
 1. Run transaction SM30, enter the view name `V_BBP_VDSYNC_UPD` and choose *Maintain*.
 2. Enter the ID of the root vendor group organizational unit into the field *Organizational Unit in EBP for the Supplier*.
 3. Select a vendor number assignment type such as *Internal Number Assignment if SAP ERP Numbers not Possible*.
 4. Save your entries.



9 Configuring Business Context Viewer for MDG Supplier

You can use this function to view context-related information for your supplier master data in a side panel. You must activate the Business Context Viewer (BCV) to access the side panels for the Web Dynpro applications *Create Supplier* and *Change Supplier*.

Prerequisites

1. To enable BCV, you must activate the following business functions:
 - *FND, Business Context Viewer Main Application* (/BCV/MAIN)
 - *FND, Business Context Viewer Main Application 2* (/BCV/MAIN_1)
 - *FND, Business Context Viewer NWBC Side Panel* (/BCV/NWBC_SIDE_PANEL)
2. The business content for MDG Supplier is delivered in the BC sets *BCV Content for MDG Framework* (MDGAF_BCV) and *BCV Content for MDG BP Release 7.0* (MDGBP_BCV_70). You must activate them in transaction SCPR20.

Process

To view this content, open the BCV side panel by choosing the *Side Panel* link in the upper right corner of your MDG Supplier user interface. From the side panel, select the following overviews you require from the dropdown list:

Purchasing Overview

This BCV content provides you with a list of all purchasing orders created for the current vendor number.

Changes Overview

This BCV content provides you with a list of changes raised by the current MDG change request.

More Information

For more information about BCV, see [Business Context Viewer \(BCV\) \[External\]](#)